MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0033		**Accessories For Digital Wired Self-Corrective Clocks** *(27 53 13 16-0020)*		
27 53 13 16-0034	EA	Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks	225.15	13.33
27 53 13 16-0035	EA	2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks	57.50	13.33
27 53 13 16-0036	EA	4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks	77.74	13.33
27 53 13 16-0037	EA	Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks	197.21	13.33
27 53 13 16-0038	EA	4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks	58.95	13.33
27 53 13 16-0039		**Wired Self-Corrective Master Clocks** *(27 53 13 16-0001)*		
27 53 13 16-0040		**Wired Self-Corrective Master Clocks** *(27 53 13 16-0039)*		
27 53 13 16-0041	EA	24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24)	2,349.82	213.33
27 53 13 16-0042	EA	120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120)	2,494.35	213.33
27 53 13 16-0043		**Accessories For Wired Self-Corrective Master Clocks** *(27 53 13 16-0039)*		
27 53 13 16-0044	EA	5 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405)	252.64	53.33
27 53 13 16-0045	EA	10 Amp Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406)	282.98	53.33
27 53 13 16-0046		**Other Clock And Program Systems** *(27 53 13 16)*		
27 53 13 16-0047	EA	4 Circuit Master Clock And Signal Control (Lathem LTR4-512)	1,323.29	106.66
27 53 13 16-0048	EA	8 Circuit Master Clock And Signal Control (Lathem LTR8-512)	1,641.84	213.33
27 53 13 16-0049	EA	Program Bell (Lathem 906-6)	213.55	53.33
27 53 13 16-0050	EA	Combination Clock And Speaker	490.89	133.32

END OF SECTION 27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 05 Common Work Results for Electronic Safety and Security *(28)*

28 05 26 Grounding and Bonding for Electronic Safety and Security *(28 05)*

See CSI section 26 05 26 00-0000 for grounding and bonding.

28 05 53 Identification for Electronic Safety and Security *(28 05)*

See CSI section 26 05 53 00-0000 for identification.

28 10 Access Control *(28)*

Note: Includes testing of new devices and certification.

28 15 Integrated Access Control Hardware Devices *(28 10)*

28 15 11 Integrated Credential Readers and Field Entry Management *(28 15)*

28 15 11 13 Keypads *(28 15 11)*

28 15 11 13-0001 Vindicator Security Alarm System *(28 15 11 13)*

28 15 11 13-0002	EA	Switch, Balanced Magnetic Door (Security) Vindicator #192-30894-00	1,245.32	222.39
28 15 11 13-0003	EA	Detector, Passive Infrared (Security) Vindicator #316-30812-00	1,571.10	289.05
28 15 11 13-0004	EA	Premise Control Unit (Security) Vindicator #548-32004-01	7,836.81	633.56
28 15 11 13-0005	EA	Access Manager (Security Key Pad) Vindicator #548-31894-01	3,680.08	539.92
28 15 11 13-0006	EA	ALS Duress Switch (Security) Vindicator #192-30810-00	1,034.51	295.34

28 16 Access Control Interfaces *(28 10)*

28 16 11 Access Control Interfaces to Access Control Hardware *(28 16)*

28 16 11 00-0001 Stand Alone Access Controls *(28 16 11)*

28 16 11 00-0002 Push Button Controls, Stand Alone Access Controls *(28 16 11 00-0001)*

28 16 11 00-0003 Interior Mount, Push Button Controls, Stand Alone Access Controls *(28 16 11 00-0002)*

28 16 11 00-0004	EA	Exit Push Button, Push Button Controls, Interior Stand Alone Access Controls Note: Controls mount to a standard mullion.	114.31	26.67
28 16 11 00-0005	EA	Exit Push Button, Push Button Controls, Interior Stand Alone Access Controls Note: Controls mount into a single gang electrical box. Excludes electrical box.	119.39	26.67
28 16 11 00-0006	EA	Three Button, Push Button Controls, Interior Stand Alone Access Controls For Gate Operators Note: Controls mount into a single gang electrical box. Excludes electrical box.	148.61	26.67

28 16 11 00-0007 Exterior Mount, Push Button Controls, Stand Alone Access Controls *(28 16 11 00-0002)*

Note: Includes a lockable, gasketed 16 gauge steel enclosure. Excludes mounting posts.

28 16 11 00-0008	EA	Handicap/Push To Open, Push Button Controls, Exterior Stand Alone Access Controls Note: Controls mount into a single gang electrical box. Excludes electrical box.	141.41	26.67
28 16 11 00-0009	EA	42" High Aluminum Post With Handicap/Push To Open, Push Button Controls, Exterior Stand Alone Access Controls Note: Includes post, mounting base and push button control. Excludes concrete foundation.	666.47	79.99
28 16 11 00-0010	EA	Three Button, Exterior Stand Alone Access Controls For Gate Operators Note: Includes open, close and stop controls.	224.84	26.67

28 16 11 00-0011 Key Controls, Stand Alone Access Controls *(28 16 11 00-0001)*

28 16 11 00-0012 Interior Mount, Key Controls, Stand Alone Access Controls *(28 16 11 00-0011)*

28 16 11 00-0013	EA	Standard Mortise Key, Key Controls, Interior Stand Alone Access Controls Note: Controls mount into a single gang electrical box. Excludes electrical box.	158.14	26.67

28 16 11 00-0014 Exterior Mount, Key Controls, Stand Alone Access Controls *(28 16 11 00-0011)*

Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.

28 16 11 00-0015	EA	Postal Or Fire Department Lock Box, Key Controls, Exterior Stand Alone Access Controls Note: Opens door or gate with a postal or fire department key.	246.41	53.33
28 16 11 00-0016	EA	Standard Mortise Key, Key Controls, Exterior Stand Alone Access Controls	381.07	53.33
28 16 11 00-0017	EA	Ace Key, Key Controls, Exterior Stand Alone Access Controls	381.07	53.33
28 16 11 00-0018	EA	Standard Mortise Key And Push Button Intercom, Key Controls, Exterior Stand Alone Access Controls	574.18	53.33

28 16 11 00-0019 Keypad Controls, Stand Alone Access Controls *(28 16 11 00-0001)*

28 16 11 00-0020 Interior Mount, Keypad Controls, Stand Alone Access Controls *(28 16 11 00-0019)*

28 16 11 00-0021	EA	One Code Memory, Keypad Control, Interior Stand Alone Access Controls Note: Stores one 4-digit entry code and one 4-digit hold code. Controls mount into a single gang electrical box. Excludes electrical box.	218.49	26.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0022		**Exterior Mount, Keypad Controls, Stand Alone Access Controls** *(28 16 11 00-0019)* Note: Includes a surface mounted lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0023		**Keypad Controls, Exterior Stand Alone Access Controls** *(28 16 11 00-0022)*		
28 16 11 00-0024	EA	1000 Code Memory, Keypad Control, Exterior Stand Alone Access Controls Note: Includes lighted keypad. Stores one thousand 4-digit entry codes and six 5-digit entry codes.	912.06	106.66
		For Flush Mount, Add	*157.21*	
28 16 11 00-0025		**Keypad Controls With Push Button Intercom, Exterior Stand Alone Access Controls** *(28 16 11 00-0022)* Note: Includes intercom sub-station. Excludes additional receiving intercoms.		
28 16 11 00-0026	EA	1000 Code Memory, Keypad Controls With Push Button Intercom, Exterior Stand Alone Access Controls Note: Includes lighted keypad. Stores one thousand 4-digit entry codes and six 5-digit entry codes.	1,103.87	119.99
		For Flush Mount, Add	*194.38*	
28 16 11 00-0027		**RF Controls, Stand Alone Access Controls** *(28 16 11 00-0001)*		
28 16 11 00-0028		**Exterior Mount, RF Controls, Stand Alone Access Controls** *(28 16 11 00-0027)* Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts and transmitters.		
28 16 11 00-0029		**RF Receivers, RF Controls, Exterior Stand Alone Access Controls** *(28 16 11 00-0028)* Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts and transmitters.		
28 16 11 00-0030	EA	50 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls	556.34	106.66
28 16 11 00-0031	EA	100 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls	624.95	106.66
28 16 11 00-0032	EA	250 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls	691.01	106.66
28 16 11 00-0033	EA	500 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls	762.15	106.66
28 16 11 00-0034	EA	1000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls	828.22	106.66
28 16 11 00-0035	EA	5000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls	899.36	106.66
28 16 11 00-0036	EA	16000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls	965.42	106.66
28 16 11 00-0037		**RF Transmitters, RF Controls, Exterior Stand Alone Access Controls** *(28 16 11 00-0028)*		
28 16 11 00-0038	EA	1 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls	43.19	
		For >40 To 110, Deduct	*-2.16*	
		For >110, Deduct	*-4.32*	
		For Built In Proximity Tags, Add	*8.64*	
28 16 11 00-0039	EA	2 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls	45.74	
		For >40 To 110, Deduct	*-2.29*	
		For >110, Deduct	*-4.57*	
		For Built In Proximity Tags, Add	*9.15*	
28 16 11 00-0040	EA	3 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls	48.28	
		For >40 To 110, Deduct	*-2.41*	
		For >110, Deduct	*-4.83*	
		For Built In Proximity Tags, Add	*9.66*	
28 16 11 00-0041		**Accessories For RF Receivers, Exterior Stand Alone Access Controls** *(28 16 11 00-0028)*		
28 16 11 00-0042	EA	Coax Antenna Kit For RF Receivers, Exterior Stand Alone Access Controls Note: Includes 15' of coax cable.	220.97	79.99
28 16 11 00-0043	EA	Antenna Amplifier For RF Receivers, Exterior Stand Alone Access Controls Note: Includes 20' of coax cable.	414.07	79.99
28 16 11 00-0044	EA	Yagi High-Gain Antenna Kit For RF Receivers, Exterior Stand Alone Access Controls Note: Includes 15' of coax cable.	378.50	79.99
28 16 11 00-0045		**Proximity Card Controls, Stand Alone Access Controls** *(28 16 11 00-0001)*		
28 16 11 00-0046		**Exterior Mount, Proximity Card Controls, Stand Alone Access Controls** *(28 16 11 00-0045)* Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0047		**DKS Proximity Card Controls, Exterior Stand Alone Access Controls** *(28 16 11 00-0046)*		
28 16 11 00-0048		**DKS Proximity Card Readers, Exterior Stand Alone Access Controls** *(28 16 11 00-0047)*		
28 16 11 00-0049	EA	DKS Proximity Card Reader, Exterior Stand Alone Access Controls	1,039.11	106.66
28 16 11 00-0050		**AWID Proximity Card Controls, Exterior Stand Alone Access Controls** *(28 16 11 00-0046)*		
28 16 11 00-0051		**AWID Proximity Card Readers, Exterior Stand Alone Access Controls** *(28 16 11 00-0050)*		
28 16 11 00-0052	EA	AWID Proximity Card Reader, Exterior Stand Alone Access Controls	1,128.04	106.66
28 16 11 00-0053		**HID Proximity Card Controls, Exterior Stand Alone Access Controls** *(28 16 11 00-0046)*		
28 16 11 00-0054		**HID Proximity Card Readers, Exterior Stand Alone Access Controls** *(28 16 11 00-0053)*		
28 16 11 00-0055	EA	HID Proximity Card Reader, Exterior Stand Alone Access Controls	1,331.30	106.66

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0056		Magnetic Stripe Card Controls, Stand Alone Access Controls *(28 16 11 00-0001)*		
28 16 11 00-0057		Interior Mount, Magnetic Stripe Card Controls, Stand Alone Access Controls *(28 16 11 00-0056)*		
28 16 11 00-0058	EA	Magnetic Stripe Reader, Interior Stand Alone Access Controls	632.57	106.66
28 16 11 00-0059		Exterior Mount, Magnetic Stripe Card Controls, Stand Alone Access Controls *(28 16 11 00-0056)*		
		Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0060	EA	Magnetic Stripe Reader, Exterior Stand Alone Access Controls	776.04	106.66
28 16 11 00-0061		Other Stand Alone Access Controls *(28 16 11 00-0001)*		
28 16 11 00-0062	EA	Toggle Switch, Interior Access Controls For Gate Operators	110.50	26.67
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		
28 16 11 00-0063	EA	Request To Exit Motion Detector (Bosch Security Systems DS160)	106.97	21.33
28 16 11 00-0064		Wiegand Output Access Controls *(28 16 11)*		
		Note: Excludes controllers.		
28 16 11 00-0065		Proximity Card Controls, Wiegand Output Access Controls *(28 16 11 00-0064)*		
28 16 11 00-0066		DKS, Proximity Card Controls, Wiegand Output Access Controls *(28 16 11 00-0065)*		
28 16 11 00-0067		DKS, Proximity Cards *(28 16 11 00-0066)*		
28 16 11 00-0068	EA	Clamshell Type, DKS Proximity Card (DKS 170)	6.76	
28 16 11 00-0069	EA	ISO Compliant Graphics Card, DKS Proximity Card (DKS 80)	11.15	
28 16 11 00-0070	EA	DKS Proximity Key Fob (DKS 50)	11.74	
28 16 11 00-0071	EA	Active Tag, DKS Proximity Tag (DKS 150)	66.40	
		Note: Battery powered tag to boost signal.		
28 16 11 00-0072	EA	Active Tag, DKS Proximity Tag (DKS 200)	86.56	
		Note: Battery powered tag to boost signal.		
28 16 11 00-0073		DKS, Proximity Card Readers, Wiegand Output Access Controls *(28 16 11 00-0066)*		
28 16 11 00-0074	EA	Up To 2" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Small)	401.82	133.32
28 16 11 00-0075	EA	Up To 3" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Mullion)	401.82	133.32
28 16 11 00-0076	EA	Up To 4" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Single Gang)	401.82	133.32
28 16 11 00-0077	EA	Up To 30" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS)	1,035.00	133.32
		Note: Includes mounting bracket and 12 Volt DC regulated power supply.		
28 16 11 00-0078		AWID, Proximity Card Controls, Wiegand Output Access Controls *(28 16 11 00-0065)*		
28 16 11 00-0079		AWID, Proximity Cards *(28 16 11 00-0078)*		
28 16 11 00-0080	EA	Clamshell Type, AWID Proximity Card (AWID Prox-Linc CS)	5.69	
28 16 11 00-0081	EA	ISO Compliant Graphics Card, AWID Proximity Card (AWID Prox-Linc GR)	8.89	
28 16 11 00-0082	EA	AWID Proximity Key Fob (AWID Prox-Linc KT)	9.49	
28 16 11 00-0083	EA	Windshield Tag For LR 2000 Readers, AWID Proximity Tag	33.20	
28 16 11 00-0084	EA	Metal Mount Tag For LR 2000 Readers, AWID Proximity Tag	33.20	
28 16 11 00-0085		AWID, Proximity Card Readers, Wiegand Output Access Controls *(28 16 11 00-0078)*		
28 16 11 00-0086	EA	Up To 4" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID SR 2400)	480.08	133.32
		Note: For mullion mounting.		
28 16 11 00-0087	EA	Up To 8" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MM 6800)	650.83	133.32
		Note: For mullion mounting.		
28 16 11 00-0088	EA	Up To 8" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MM 6820)	650.83	133.32
		Note: For single gang electrical box mounting.		
28 16 11 00-0089	EA	Up To 24" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MR 1824)	1,037.37	133.32
		Note: Includes 12 Volt DC regulated power supply.		
28 16 11 00-0090	EA	Up To 11' Read Range, 12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID LR 2000)	5,675.95	133.32
		Note: Includes mounting bracket and 12 Volt DC regulated power supply.		
28 16 11 00-0091		HID, Proximity Card Controls, Wiegand Output Access Controls *(28 16 11 00-0065)*		
28 16 11 00-0092		HID, Proximity Cards *(28 16 11 00-0091)*		
28 16 11 00-0093	EA	Clamshell Type, HID Proximity Card (HID ProxCard II)	14.88	
28 16 11 00-0094	EA	ISO Compliant Graphics Card, HID Proximity Card (HID ISOProx II)	19.15	
28 16 11 00-0095	EA	HID Proximity Key Fob (HID ProxKey II)	19.62	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0096		**HID, Proximity Card Readers, Wiegand Output Access Controls** *(28 16 11 00-0091)*		
28 16 11 00-0097	EA	Up To 3" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID ProxPoint Plus)	423.56	133.32
		Note: For mullion mounting. (HID P/N 6005).		
28 16 11 00-0098	EA	Up To 5" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID ThinLine II)	486.96	133.32
		Note: For single gang electrical box mounting. (HID P/N 5395).		
28 16 11 00-0099	EA	Up To 5" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID MiniProx)	534.51	133.32
		Note: For mullion mounting. (HID P/N 5365).		
28 16 11 00-0100	EA	EntryProx Single-Door Proximity Access Control	662.89	133.32
		Note: (HID P/N 4045) Stores up to 2,000 users and 1,000 time-stamped transactions 12 position keypad for Pin entry or programming optional use with card/key fob, code only or card plus pin code Wiegand output mode. Continental Instrument CICR2358P.		
28 16 11 00-0101		**Contactless Smart Card Controls, Wiegand Output Access Controls** *(28 16 11 00-0064)*		
28 16 11 00-0102		**HID, Contactless Smart Cards** *(28 16 11 00-0101)*		
28 16 11 00-0103	EA	2K Bits, Clamshell Type, HID iClass, Contactless Smart Card	10.43	
28 16 11 00-0104	EA	16K Bits, ISO Compliant Graphics Card, HID iClass, Contactless Smart Card	11.39	
28 16 11 00-0105	EA	16K Bits, Contactless Smartcard Key Fob, HID iClass, Contactless Smart Card	14.91	
28 16 11 00-0106	EA	16K Bits, Contactless Smartcard Tag, HID iClass, Contactless Smart Card	8.07	
		Note: Battery powered tag to boost signal.		
28 16 11 00-0107		**HID, Contactless Smart Card Readers, Wiegand Output Access Controls** *(28 16 11 00-0101)*		
28 16 11 00-0108	EA	Up To 3-1/4" Read Range, 5-16 Volt DC, HID iClass Contactless Smart Card Reader, Wiegand Output Access Controls (HID R10)	454.84	133.32
		Note: For mullion mounting.		
28 16 11 00-0109	EA	Up To 4-1/4" Read Range, 5-12 Volt DC, HID iClass Contactless Smart Card Reader, Wiegand Output Access Controls (HID R40)	611.36	133.32
		Note: For mullion mounting.		
28 16 11 00-0110	EA	Up To 4-1/4" Read Range, 5-12 Volt DC, HID iClass Contactless Smart Card Reader With Keypad, Wiegand Output Access Controls (HID RK40)	963.52	133.32
		Note: For mullion mounting.		
28 16 11 00-0111		**HID, Contactless Smart Card Programmer, Wiegand Output Access Controls** *(28 16 11 00-0101)*		
28 16 11 00-0112	EA	HID iClass Contactless Smart Card Programmer, Wiegand Output Access Controls (HID CP400)	2,944.20	133.32
		Note: For mullion mounting.		
28 16 11 00-0113		**Call Station Controls, Wiegand Output Access Controls** *(28 16 11 00-0064)*		
		Note: Includes intercom sub-station. Excludes additional receiving intercoms.		
28 16 11 00-0114	EA	Call Station With Entry Keypad, Exterior Wiegand Output Access Controls	1,181.36	133.32
		Note: For mullion mounting.		
28 16 11 00-0115	EA	Call Station With Proximity Card Reader, Exterior Wiegand Output Access Controls	990.79	133.32
		Note: For mullion mounting.		
28 16 11 00-0116		**Biometrics Readers, Wiegand Output Access Controls** *(28 16 11 00-0064)*		
28 16 11 00-0117	EA	Palm Reader Recognition System, Biometrics Readers, Wiegand Output Access Controls	4,410.01	106.66
28 16 11 00-0118	EA	CCD Camera, Face Image, Biometrics Readers, Wiegand Output Access Controls	5,374.38	106.66
28 16 11 00-0119	EA	Video Grabber Card For DFR Reader, Biometrics Readers, Wiegand Output Access Controls	2,151.75	106.66
28 16 11 00-0120	EA	Fingerprint Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Pass)	1,508.32	106.66
28 16 11 00-0121	EA	Fingerprint Reader With HID Card Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Prox)	1,676.01	106.66
28 16 11 00-0122	EA	Fingerprint Reader With Contactless Smart Card Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Smart)	1,508.32	106.66
28 16 11 00-0123		**Exterior Mounting Posts For Gate Operator Access Controls** *(28 16 11)*		
		Note: Includes mounting plate for access controls, baked on enamel finish and mounting bolt covers. Excludes concrete pads and electrical connections.		
28 16 11 00-0124		**2" x 2" Steel, Exterior Mounting Posts For Gate Operator Access Controls** *(28 16 11 00-0123)*		
28 16 11 00-0125	EA	44" Tall, Gooseneck Style, Single Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls	312.89	20.51
		Note: Includes a 5" x 5" base plate.		
28 16 11 00-0126	EA	73" Tall, Gooseneck Style, Dual Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls	612.71	20.51
		Note: Includes an 8" x 8" base plate.		
28 16 11 00-0127	EA	Anchor Post For 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls	282.40	20.51
		Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.		
28 16 11 00-0128		**4" x 4" Steel, Exterior Mounting Posts For Gate Operator Access Controls** *(28 16 11 00-0123)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0129	EA	59" Tall, Straight Style, Single Mount, 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls Note: Includes an 8" x 8" base plate.	564.44	20.51
28 16 11 00-0130	EA	49" Tall, Offset Style, Single Mount, 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls Note: Includes an 8" x 8" base plate and a 14" offset from back of post.	676.23	20.51
28 16 11 00-0131	EA	Anchor Post For 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.	409.44	20.51

28 16 11 00-0132 4" x 8" Steel, Exterior Mounting Posts For Gate Operator Access Controls *(28 16 11 00-0123)*

28 16 11 00-0133	EA	59" Tall, Straight Style, Single Mount, 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls Note: Includes a 11" x 13" base plate.	1,857.73	20.51
28 16 11 00-0134	EA	50" Tall, Offset Style, Single Mount, 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls Note: Includes a 10" x 14" base plate and a 14" offset from back of post.	1,946.66	20.51
28 16 11 00-0135	EA	Anchor Post For 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.	790.57	20.51
28 16 11 00-0136	EA	48" Light Tower For 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls	1,273.33	20.51

28 16 11 00-0137 Access Control Accessories *(28 16 11)*

28 16 11 00-0138	EA	6 Volt DC, 12 Volt DC, Or 24 Volt DC, At 4 Amperes, Power Supply/Charger (Altronix SMP-5)	443.01	
28 16 11 00-0139	EA	7 Amperes, 12 Volt, Battery	54.79	
28 16 11 00-0140	EA	18 Amperes, 12 Volt, Battery	122.13	
28 16 11 00-0141	EA	Door Personality Module (Sensormatic RM-4)	480.12	26.67
28 16 11 00-0142	EA	Mini-Alert Door Ajar Sounder (System Sensor PA400)	210.86	53.33
28 16 11 00-0143	EA	Recessed Contact For Steel Doors, Door Monitor Switch (Sentrol 1078C)	72.13	32.00
28 16 11 00-0144	EA	Access Control Systems Power Supply (Altronix AL400ULACMCB)	510.10	21.33
28 16 11 00-0145	EA	Surge Suppressor (Tripp-Lite IBAR4)	78.03	5.34
28 16 11 00-0146	EA	Door Strike Relay (Altronix RBSN-TTL)	63.45	21.33
28 16 11 00-0147	EA	4" Diameter x 74" High, Powder Coated Steel, Burial Mount Gooseneck For Access Control Devices (GNB-1) Note: Set in concrete.	389.46	
28 16 11 00-0148	EA	16-Zone Input, Door Controller Expansion Module With 16" SPI Cable (Kantech KT-MOD-INP16)	512.86	133.32

28 16 11 00-0149 Access Controllers *(28 16 11)*

28 16 11 00-0150 Microterm Controller *(28 16 11 00-0149)*

28 16 11 00-0151	EA	Microterm Stand Alone One Or Two Door Processing Panel (Continental Instruments CICP1100) Note: Up to 1,000 card capacity. Includes 2 alarm inputs, tamper alarm, and 3 relay outputs.	1,217.32	133.32
28 16 11 00-0152	EA	Microterm PC Board (Continental Instruments CICP1100PCB)	858.16	79.99
28 16 11 00-0153	EA	Battery Standby For Microterm (Continental Instruments CICP1100BAT-2) Note: Input 120 Volt AC, output 12 Volt DC to temporarily power the Microterm only.	395.67	

28 16 11 00-0154 Miniterm Controller *(28 16 11 00-0149)*

28 16 11 00-0155	EA	Miniterm Two Reader Processing Panel (Continental Instrument CICP1200) Note: Up to 3,000 card capacity. Includes 8 EOL Class A supervised alarm inputs, temper alarm, and 5 relay outputs. Complete in a lockable steel enclosure with battery standby for memory and system operation.	1,870.00	133.32
28 16 11 00-0156	EA	Miniterm PC Board (Continental Instrument CICP1200PCB)	1,391.62	79.99

28 16 11 00-0157 Super-2 Controller *(28 16 11 00-0149)*

28 16 11 00-0158	EA	Super-Two - Two Reader Processing Panel (Continental Instruments CICP1300) Note: For use with CA3000 V2.0.25 and above. Up to a 125,000 card capacity, 8 EOL supervised alarm inputs, tamper, 5 relay outputs. Support for on-board LAN adapter, 57,600 baud rate, 6 access groups per card-holder and compressed data mode. Complete in a lockable steel enclosure with battery standby for memory and system operation.	1,400.75	133.32
28 16 11 00-0159	EA	Super-Two - PC Board (Continental Instruments CICP1300BD)	943.14	79.99
28 16 11 00-0160	EA	Network Interface Board For Super-2 (Continental Instruments CICP1300NETBD) Note: Optional on-board adapter allows for communication over TCP/IP.	278.76	79.99

28 16 11 00-0161 Smarterm Controller *(28 16 11 00-0149)*

28 16 11 00-0162	EA	Smarterm Four Reader Processing Panel (Continental Instrument CICP1400) Note: Card capacity up to 2,500. Includes 16 alarm inputs, tamper alarm, and 9 relay outputs. Complete in a lockable steel enclosure with battery standby for memory and system operation.	3,870.47	159.99
28 16 11 00-0163	EA	Smarterm PC Board (Continental Instrument CICP1400PCB)	2,946.57	79.99
28 16 11 00-0164	EA	Smarterm Memory Board - 256K (Continental Instrument CICP1400MB256-1) Note: Up to 10,000 cardholders.	1,161.47	79.99
28 16 11 00-0165	EA	Smarterm Memory Board - 2MB (Continental Instrument CICP1400MB2-1) Note: Up to 50,000 cardholders.	1,640.96	79.99
28 16 11 00-0166	EA	Smarterm Relay Expander Board (Continental Instrument CICP1400RB) Note: 16 Output relays, 8 alarm inputs.	1,281.67	79.99
28 16 11 00-0167	EA	Smarterm Alarm Expander Board (Continental Instrument CICP1400RB) Note: (Supervised) 16 alarm inputs.	1,281.67	79.99

28 16 11 00-0168 Superterm-4 Controller *(28 16 11 00-0149)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0169	EA	Superterm-4 - Four Reader Processing Panel (Continental Instrument CICP1400UL) Note: 20,000 card capacity, 12 supervised alarm inputs, tamper alarm, and 9 relay outputs. Complete in a painted steel enclosure with 7 AH battery standby for system operation.	3,577.88	159.99
28 16 11 00-0170	EA	Superterm-4 PC Board (Continental Instrument CICP1400ULPCB)	2,897.39	79.99
28 16 11 00-0171		**Superterm-8 Controller** *(28 16 11 00-0149)*		
28 16 11 00-0172	EA	Superterm-8 - Eight Reader Processing Panel (Continental Instrument CICP1800) Note: Up to 20,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including 7 AH battery standby for memory and system operation.	4,787.02	266.65
28 16 11 00-0173	EA	Superterm-8 - Eight Reader Processing Panel, Expanded Power (Continental Instrument CICP1800EXP) Note: With expanded power supply. (required if more than 1 relay expander board is used.) Up to 20,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including 7 AH battery standby for memory and system operation.	5,186.59	266.65
28 16 11 00-0174	EA	Superterm-8 PC Board (Continental Instrument CICP1800PCB)	3,893.21	79.99
28 16 11 00-0175		**Turbo Superterm-4 Controller** *(28 16 11 00-0149)*		
28 16 11 00-0176	EA	Turbo Superterm-4 - Four Reader Processing Panel (Continental Instrument CICP1400ULT) Note: 20,000 Card capacity, 12 supervised alarm inputs, tamper alarm, and 9 relay outputs. Complete in a painted steel enclosure with 7 AH battery standby for system operation.	3,577.88	159.99
28 16 11 00-0177	EA	Turbo Superterm-4 PC Board (Continental Instrument CICP1400ULTPCB)	2,897.39	79.99
28 16 11 00-0178		**Turbo Superterm-8 Controller** *(28 16 11 00-0149)*		
28 16 11 00-0179	EA	Turbo Superterm-8 - Eight Reader Processing Panel (Continental Instrument CICP1800T) Note: For use with CA3000 V2.0.25 and above. Up to 40,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including a 7 AH battery standby for memory and system operation.	4,787.02	266.65
28 16 11 00-0180	EA	Turbo Superterm-8 -Eight Reader Processing Panel, Expanded Power (Continental Instrument CICP1800TEXP) Note: Required if more than one relay expander board is used. Up to 40,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including a 7 AH battery standby for memory and system operation.	5,186.59	266.65
28 16 11 00-0181	EA	Turbo Superterm-8 PC Board (Continental Instrument CICP1800TPCB)	3,893.21	79.99
28 16 11 00-0182	EA	Superterm Memory Board - 2MB (Continental Instrument CICP1800MB2) Note: Up to 140,000 cardholders.	1,640.96	79.99
28 16 11 00-0183	EA	Turbo/Superterm-8 Memory Board - 2MB (Continental Instrument CICP1800MB2X2) Note: Up to 140,000 cardholders.	1,385.22	79.99
28 16 11 00-0184	EA	Turbo Superterm-8 Relay Expander Board (Continental Instrument CICP1800RB) Note: 16 Output relays, 8 alarm inputs.	1,282.96	79.99
28 16 11 00-0185	EA	Turbo Superterm-8 Alarm Expander Board (Continental Instrument CICP1800RB) Note: (Supervised) 16 Alarm inputs.	1,282.96	79.99
28 16 11 00-0186	EA	Expanded Power Supply For Superterm Or Turbo Superterm (Continental Instrument CICPEXPPWS)	512.52	
28 16 11 00-0187		**Intelligent Controller** *(28 16 11 00-0149)*		
28 16 11 00-0188	EA	Intelligent Controller With Paired Reader Interface for One Physical Barrier (Mercury Security EP-1501)	927.34	79.99
28 16 11 00-0189	EA	Up To 64 Doors, Access Controller (Mercury Security EP-1502)	1,621.35	133.32
28 16 11 00-0190		**Access Control Bundled System** *(28 16 11)*		
28 16 11 00-0191	EA	CA 3000 Bundled System, Supports 25 Users (Continental Instrument CA3B250P4O3V0R0) Note: System includes PC, monitor, keyboard, mouse, OS, Card Access 3000 file server software, MS SQL 2000, 1 SQL host license, and security key.	25,590.77	
28 16 11 00-0192		**Magnetic Locks** *(28 16 11)* Note: Excludes access controls.		
28 16 11 00-0193		**Magnetic Door Locks** *(28 16 11 00-0192)*		
28 16 11 00-0194		**300 LB Magnetic Door Locks** *(28 16 11 00-0193)*		
28 16 11 00-0195	EA	Single Door, Surface Mount, 300 LB Magnetic Door Lock	515.69	106.66
28 16 11 00-0196		**600 LB Magnetic Door Locks** *(28 16 11 00-0193)*		
28 16 11 00-0197	EA	600 LB, Single Door, Surface Mount, Magnetic Door Lock	725.31	106.66
		For LED Status Indicator And Signal Relay, Add	*64.00*	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	*128.00*	
		For Mortise Mount, Deduct	*-102.40*	
28 16 11 00-0198	EA	600 LB, Dual Doors, Surface Mount, Magnetic Door Lock	1,069.60	106.66
		For LED Status Indicator And Signal Relay, Add	*107.03*	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	*214.07*	
28 16 11 00-0199		**1,200 LB Magnetic Door Locks** *(28 16 11 00-0193)*		
28 16 11 00-0200	EA	1,200 LB, Single Door, Surface Mount, Magnetic Door Lock	757.07	106.66
		For LED Status Indicator And Signal Relay, Add	*125.06*	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	*163.12*	
28 16 11 00-0201	EA	Dual Doors, Surface Mount, 1,200 LB Magnetic Door Lock	1,138.20	106.66
		For LED Status Indicator And Signal Relay, Add	*212.72*	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	*277.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0202		2,000 LB Shear Lock, Magnetic And Mechanical Locks *(28 16 11 00-0193)*		
		Note: Includes LED status indicator and built-in signal relay.		
28 16 11 00-0203	EA	Single Door, Mortise Mount, 2,000 LB Shear Lock, Magnetic And Mechanical Door Lock	791.37	106.66
28 16 11 00-0204		Magnetic Gate Locks *(28 16 11 00-0192)*		
28 16 11 00-0205		600 LB Magnetic Gate Locks *(28 16 11 00-0204)*		
28 16 11 00-0206	EA	600 LB Magnetic Gate Lock	599.54	106.66
28 16 11 00-0207		1,200 LB Magnetic Gate Locks *(28 16 11 00-0204)*		
28 16 11 00-0208	EA	1,200 LB Magnetic Gate Lock	715.15	106.66
		For LED Status Indicator And Signal Relay, Add	*62.73*	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	*125.46*	
		For Mortise Mount, Deduct	*-100.36*	
28 16 11 00-0209		Magnetic Lock Power Supply And Chargers *(28 16 11 00-0192)*		
		Note: Includes lockable metal enclosure, batteries, battery charger and electronically regulated outputs.		
28 16 11 00-0210	EA	12/24 Volt DC At 1 Ampere, Magnetic Lock Backup Power Supply And Charger	451.63	106.66
28 16 11 00-0211	EA	12/24 Volt DC At 2-1/2 Amperes, Magnetic Lock Backup Power Supply And Charger	566.82	106.66
28 16 11 00-0212	EA	12 Volt DC At 4 Amperes And 24 Volt DC At 3 Amperes, Magnetic Lock Backup Power Supply And Charger	634.57	106.66
28 16 11 00-0213	EA	12/24 Volt DC At 6 Amperes, Magnetic Lock Backup Power Supply And Charger	790.41	106.66
28 16 11 00-0214		Master Door Buzzer Stations *(28 16 11)*		
28 16 11 00-0215		Master Stations *(28 16 11 00-0214)*		
28 16 11 00-0216	EA	Master Stations, 5 Station Intercommunication Equipment	839.37	166.39
28 16 11 00-0217	EA	Master Stations, 10 Station Intercommunication Equipment	1,296.58	322.12
28 16 11 00-0218	EA	Master Station, Desk Style Remote Intercommunication Equipment	366.43	83.20
28 16 11 00-0219	EA	Master Station, Flush Wall Remote Intercommunication Equipment	484.94	138.66
28 16 11 00-0220	EA	Sound System Outlet, Protector	133.63	54.29
28 16 11 00-0221	EA	Sound System Microphone Outlet	241.69	111.14
28 16 11 00-0222	EA	Ceiling Or Wall, Sound System Speaker	169.83	54.29
28 16 11 00-0223	EA	Sound System Monitor Panel	472.85	111.14
28 16 11 00-0224	EA	Sound System Volume Control	150.32	54.29
28 16 11 00-0225	EA	250 Watt, Sound System Amplifier	2,153.42	444.46
28 16 11 00-0226	EA	Sound System Cabinet	1,348.34	444.46
28 16 11 00-0227		Master Door Stations *(28 16 11 00-0214)*		
28 16 11 00-0228	EA	Master Door Stations, Button Buzzer Type, 25 Station	2,060.20	
		For Intercom Type Master Door Station, Add	*139.04*	
28 16 11 00-0229	EA	Master Door Stations, Button Buzzer Type, 50 Station	3,417.35	
		For Intercom Type Master Door Station, Add	*225.25*	
28 16 11 00-0230	EA	Master Door Stations, Button Buzzer Type, 75 Station	4,707.92	
		For Intercom Type Master Door Station, Add	*291.99*	
28 16 11 00-0231	EA	Master Door Stations, Button Buzzer Type, 100 Station	5,372.72	
		For Intercom Type Master Door Station, Add	*342.05*	
28 16 11 00-0232	EA	Master Door Stations, Button Buzzer Type, 150 Station	6,430.15	
		For Intercom Type Master Door Station, Add	*500.55*	
28 16 11 00-0233	EA	Master Door Stations, Button Buzzer Type, 200 Station	7,483.56	
		For Intercom Type Master Door Station, Add	*645.16*	
28 16 11 00-0234	EA	Master Door Stations, Button Buzzer Type, 250 Station	9,397.52	
		For Intercom Type Master Door Station, Add	*834.26*	
28 16 11 00-0235	EA	Master Door Stations, Button Buzzer Type, 300 Station	11,269.07	
		For Intercom Type Master Door Station, Add	*956.61*	
28 16 11 00-0236	EA	Transformer	142.81	
28 16 11 00-0237	EA	Door Opener	211.87	
28 16 11 00-0238	EA	Buzzer With Door Release And Plate	265.24	
28 16 11 00-0239	EA	Amplifier For Intercom Type Unit	401.77	
28 16 11 00-0240	EA	Speaker With Door Release	172.94	

28 18 Security Access Detection Equipment *(28 10)*

28 18 11 Security Access Metal Detectors *(28 18)*

28 18 11 00-0001		Metal Detectors *(28 18 11)*		
28 18 11 00-0002	EA	Handheld Scanner (Garrett Super Scanner V)	192.46	26.67
28 18 11 00-0003	EA	Single-Zone, Walk-Through Metal Detector, Complete Unit (Garrett CS 5000)	3,052.60	319.98
28 18 11 00-0004	EA	Multi-Zone, Walk-Through Metal Detector, Complete Unit (Garrett PD 6500I)	4,679.49	426.64

28 20 Video Surveillance *(28)*

Note: Includes testing of new devices and certification.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

28 21 Surveillance Cameras *(28 20)*

28 21 31 Proprietary Surveillance Camera Systems *(28 21)*

Note: Includes programming of equipment, testing and certification of new devices.

28 21 31 00-0001 Closed Circuit Television And Surveillance Systems (Pelco) *(28 21 31)*

28 21 31 00-0002 Cameras And Accessories *(28 21 31 00-0001)*

28 21 31 00-0003 Cameras *(28 21 31 00-0002)*

28 21 31 00-0004 Compact, 1/3" Format Cameras *(28 21 31 00-0003)*

28 21 31 00-0005 High Resolution Color, Compact, 1/3" Format Cameras *(28 21 31 00-0004)*

28 21 31 00-0006	EA	High Resolution Day/Night, Compact, 1/3" Format Camera (Pelco C10DN-6)	447.67	26.72

28 21 31 00-0007 Day/Night, Compact, 1/3" Format Cameras *(28 21 31 00-0004)*

28 21 31 00-0008	EA	High Resolution Color, Compact, 1/3" Format Camera (Pelco C10CH-6)	268.86	26.72

28 21 31 00-0009 Camerapaks *(28 21 31 00-0002)*

Note: Includes camera and lens.

28 21 31 00-0010 Camerapaks *(28 21 31 00-0009)*

28 21 31 00-0011 High Resolution Color, Camerapaks *(28 21 31 00-0010)*

28 21 31 00-0012 Fixed Focus, High Resolution Color, Camerapaks *(28 21 31 00-0011)*

28 21 31 00-0013 Manual Iris, Fixed Focus, High Resolution Color, Camerapaks *(28 21 31 00-0012)*

28 21 31 00-0014	EA	2.3 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.3)	346.41	26.72
28 21 31 00-0015	EA	2.8 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.8)	326.31	26.72
28 21 31 00-0016	EA	4 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F4)	316.97	26.72
28 21 31 00-0017	EA	8 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F8)	314.82	26.72

28 21 31 00-0018 Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapaks *(28 21 31 00-0012)*

28 21 31 00-0019	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.3A)	376.57	26.72
28 21 31 00-0020	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.8A)	346.41	26.72
28 21 31 00-0021	EA	4 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F4A)	339.23	26.72
28 21 31 00-0022	EA	8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F8A)	333.49	26.72

28 21 31 00-0023 Varifocal, High Resolution Color, Camerapaks *(28 21 31 00-0011)*

28 21 31 00-0024 Manual Iris, Varifocal, High Resolution Color, Camerapaks *(28 21 31 00-0023)*

28 21 31 00-0025	EA	1-3 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V1)	406.02	26.72
28 21 31 00-0026	EA	2.5-6 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V2)	367.24	26.72
28 21 31 00-0027	EA	2.8-12 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V21)	335.64	26.72
28 21 31 00-0028	EA	3-8 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V3)	322.72	26.72
28 21 31 00-0029	EA	5-40 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V5)	370.83	26.72

28 21 31 00-0030 Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapaks *(28 21 31 00-0023)*

28 21 31 00-0031	EA	1-3 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V1A)	437.61	26.72
28 21 31 00-0032	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V2A)	411.04	26.72
28 21 31 00-0033	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V21A)	365.80	26.72
28 21 31 00-0034	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V3A)	327.74	26.72
28 21 31 00-0035	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V5A)	385.91	26.72
28 21 31 00-0036	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V50A)	434.74	26.72
28 21 31 00-0037	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V55A)	497.22	26.72

28 21 31 00-0038 Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapaks *(28 21 31 00-0023)*

28 21 31 00-0039	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6R3A)	344.26	26.72
28 21 31 00-0040	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6R75A)	409.61	26.72

28 21 31 00-0041 High Resolution Day/Night, Camerapaks *(28 21 31 00-0010)*

28 21 31 00-0042 Varifocal, High Resolution Day/Night, Camerapaks *(28 21 31 00-0041)*

28 21 31 00-0043 Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapaks *(28 21 31 00-0042)*

28 21 31 00-0044	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V2A)	685.36	26.72
28 21 31 00-0045	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V21A)	640.12	26.72
28 21 31 00-0046	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V3A)	602.06	26.72
28 21 31 00-0047	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V5A)	660.22	26.72
28 21 31 00-0048	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V50A)	709.06	26.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0049	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V55A)	770.81	26.72
28 21 31 00-0050		**Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapaks** *(28 21 31 00-0042)*		
28 21 31 00-0051	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6R3A)	618.57	26.72
28 21 31 00-0052	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6R75A)	683.92	26.72
28 21 31 00-0053		**Compact Camerapaks** *(28 21 31 00-0009)*		
28 21 31 00-0054		**High Resolution Color, Compact Camerapaks** *(28 21 31 00-0053)*		
28 21 31 00-0055		**DSS, High Resolution Color, Compact Camerapaks** *(28 21 31 00-0054)*		
28 21 31 00-0056		**Fixed Focus, DSS, High Resolution Color, Camerapaks** *(28 21 31 00-0055)*		
28 21 31 00-0057		**Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapaks** *(28 21 31 00-0056)*		
28 21 31 00-0058	EA	2.3 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.3)	533.84	26.72
28 21 31 00-0059	EA	2.8 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.8)	513.73	26.72
28 21 31 00-0060	EA	4 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F4)	503.68	26.72
28 21 31 00-0061	EA	8 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F8)	501.52	26.72
28 21 31 00-0062		**Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapaks** *(28 21 31 00-0056)*		
28 21 31 00-0063	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.3A)	563.28	26.72
28 21 31 00-0064	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.8A)	533.84	26.72
28 21 31 00-0065	EA	4 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F4A)	526.66	26.72
28 21 31 00-0066	EA	8 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F8A)	520.91	26.72
28 21 31 00-0067		**Varifocal, DSS, High Resolution Color, Camerapaks** *(28 21 31 00-0055)*		
28 21 31 00-0068		**Manual Iris, Varifocal, DSS, High Resolution Color, Camerapaks** *(28 21 31 00-0067)*		
28 21 31 00-0069	EA	1-3 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V1)	593.44	26.72
28 21 31 00-0070	EA	2.5-6 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V2)	553.95	26.72
28 21 31 00-0071	EA	2.8-12 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V21)	523.07	26.72
28 21 31 00-0072	EA	3-8 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V3)	510.14	26.72
28 21 31 00-0073	EA	5-40 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V5)	557.54	26.72
28 21 31 00-0074	EA	5-50 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V50)	588.41	26.72
28 21 31 00-0075	EA	5.5-82.5 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V55)	661.66	26.72
28 21 31 00-0076		**Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapaks** *(28 21 31 00-0067)*		
28 21 31 00-0077	EA	1-3 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V1A)	624.32	26.72
28 21 31 00-0078	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V2A)	598.47	26.72
28 21 31 00-0079	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V21A)	553.23	26.72
28 21 31 00-0080	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V3A)	514.45	26.72
28 21 31 00-0081	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V5A)	573.33	26.72
28 21 31 00-0082	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V50A)	622.17	26.72
28 21 31 00-0083	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V55A)	683.92	26.72
28 21 31 00-0084		**Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapaks** *(28 21 31 00-0067)*		
28 21 31 00-0085	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2R3A)	531.68	26.72
28 21 31 00-0086	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2R75A)	597.03	26.72
28 21 31 00-0087		**EDR, High Resolution Color, Compact Camerapaks** *(28 21 31 00-0054)*		
28 21 31 00-0088		**Fixed Focus, EDR, High Resolution Color, Camerapaks** *(28 21 31 00-0087)*		
28 21 31 00-0089		**Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapaks** *(28 21 31 00-0088)*		
28 21 31 00-0090	EA	2.3 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.3)	533.84	26.72
28 21 31 00-0091	EA	2.8 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.8)	401.71	26.72
28 21 31 00-0092	EA	4 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F4)	391.66	26.72
28 21 31 00-0093	EA	8 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F8)	389.50	26.72
28 21 31 00-0094		**Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapaks** *(28 21 31 00-0088)*		
28 21 31 00-0095	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.3A)	451.26	26.72
28 21 31 00-0096	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.8A)	421.82	26.72
28 21 31 00-0097	EA	4 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F4A)	414.63	26.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0098	EA	8 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F8A)	414.63	26.72
28 21 31 00-0099		**Varifocal, EDR, High Resolution Color, Camerapaks** *(28 21 31 00-0087)*		
28 21 31 00-0100		**Manual Iris, Varifocal, EDR, High Resolution Color, Camerapaks** *(28 21 31 00-0099)*		
28 21 31 00-0101	EA	1-3 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V1)	481.42	26.72
28 21 31 00-0102	EA	2.5-6 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V2)	441.92	26.72
28 21 31 00-0103	EA	2.8-12 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V21)	411.04	26.72
28 21 31 00-0104	EA	3-8 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V3)	398.12	26.72
28 21 31 00-0105	EA	5-40 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V5)	445.51	26.72
28 21 31 00-0106	EA	5-50 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V50)	476.39	26.72
28 21 31 00-0107	EA	5.5-82.5 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V55)	549.64	26.72
28 21 31 00-0108		**Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapaks** *(28 21 31 00-0099)*		
28 21 31 00-0109	EA	1-3 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V1A)	512.30	26.72
28 21 31 00-0110	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V2A)	486.44	26.72
28 21 31 00-0111	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V21A)	440.49	26.72
28 21 31 00-0112	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V3A)	402.43	26.72
28 21 31 00-0113	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V5A)	461.31	26.72
28 21 31 00-0114	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V50A)	510.14	26.72
28 21 31 00-0115	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V55A)	571.90	26.72
28 21 31 00-0116		**Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapaks** *(28 21 31 00-0099)*		
28 21 31 00-0117	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2R3A)	419.66	26.72
28 21 31 00-0118	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2R75A)	485.01	26.72
28 21 31 00-0119		**High Resolution Day/Night, Compact Camerapaks** *(28 21 31 00-0053)*		
28 21 31 00-0120		**Fixed Focus, High Resolution Day/Night, Compact Camerapaks** *(28 21 31 00-0119)*		
28 21 31 00-0121		**Manual Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapaks** *(28 21 31 00-0120)*		
28 21 31 00-0122	EA	8 mm, Manual Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F8)	493.63	26.72
28 21 31 00-0123		**DC-Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapaks** *(28 21 31 00-0120)*		
28 21 31 00-0124	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F2.3A)	555.38	26.72
28 21 31 00-0125	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F2.8A)	525.22	26.72
28 21 31 00-0126		**Varifocal, High Resolution Day/Night, Compact Camerapaks** *(28 21 31 00-0119)*		
28 21 31 00-0127		**Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks** *(28 21 31 00-0126)*		
28 21 31 00-0128	EA	2.8-12 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V21)	514.45	26.72
28 21 31 00-0129	EA	3-8 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V3)	501.52	26.72
28 21 31 00-0130	EA	5-50 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V50)	580.52	26.72
28 21 31 00-0131		**Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks** *(28 21 31 00-0126)*		
28 21 31 00-0132	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V2A)	589.85	26.72
28 21 31 00-0133	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V21A)	544.61	26.72
28 21 31 00-0134	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V3A)	506.55	26.72
28 21 31 00-0135	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V5A)	564.72	26.72
28 21 31 00-0136	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V50A)	613.55	26.72
28 21 31 00-0137	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V55A)	676.02	26.72
28 21 31 00-0138		**Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks** *(28 21 31 00-0126)*		
28 21 31 00-0139	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6R3A)	523.07	26.72
28 21 31 00-0140	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6R75A)	588.41	26.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0141		Camera Systems *(28 21 31 00-0002)*		
28 21 31 00-0142		Camera Dome Systems *(28 21 31 00-0141)*		
28 21 31 00-0143		Spectra®, Pan/Tilt Camera Dome Systems *(28 21 31 00-0142)*		
28 21 31 00-0144		Spectra®, Pan/Tilt Camera Dome Systems *(28 21 31 00-0143)* Note: Includes dome drive, camera, lens, back box, clear or smoked lower dome and mounting hardware.		
28 21 31 00-0145		Spectra® IV, Pan/Tilt Camera Dome Systems *(28 21 31 00-0144)*		
28 21 31 00-0146		Black And White, Spectra® IV, Pan/Tilt Camera Dome Systems *(28 21 31 00-0145)*		
28 21 31 00-0147	EA	22X, Surface Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-SMB)	2,207.75	160.29
28 21 31 00-0148	EA	22X, In-Ceiling Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-F)	2,502.17	160.29
28 21 31 00-0149	EA	22X, Pendant Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PB)	2,634.30	160.29
28 21 31 00-0150	EA	22X, Environmental Pendant Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PG-E)	3,622.40	160.29
28 21 31 00-0151		Color, Spectra® IV, Pan/Tilt Camera Dome Systems *(28 21 31 00-0145)*		
28 21 31 00-0152	EA	16X, Surface Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-SMB)	1,873.83	160.29
28 21 31 00-0153	EA	16X, In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-F)	2,022.48	160.29
28 21 31 00-0154	EA	16X, Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PB)	2,155.33	160.29
28 21 31 00-0155	EA	16X, Environmental In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-F-E)	2,231.44	160.29
28 21 31 00-0156	EA	16X, Environmental Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PG-E)	2,231.44	160.29
28 21 31 00-0157	EA	22X, Surface Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-SMB)	2,334.13	160.29
28 21 31 00-0158	EA	22X, In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-F)	2,629.27	160.29
28 21 31 00-0159	EA	22X, Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PB)	2,762.12	160.29
28 21 31 00-0160	EA	22X, Environmental In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-F-E)	2,838.24	160.29
28 21 31 00-0161	EA	22X, Environmental Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PG-E)	2,838.24	160.29
28 21 31 00-0162		Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome Systems *(28 21 31 00-0145)*		
28 21 31 00-0163	EA	23X, Surface Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-SMB)	2,702.52	160.29
28 21 31 00-0164	EA	23X, In-Ceiling Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-F)	2,997.66	160.29
28 21 31 00-0165	EA	23X, Pendant Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PB)	3,130.51	160.29
28 21 31 00-0166	EA	23X, Environmental In-Ceiling Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-F-E)	3,206.62	160.29
28 21 31 00-0167	EA	23X, Environmental Pendant Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PG-E)	3,206.62	160.29
28 21 31 00-0168		Day/Night, Spectra® IV, Pan/Tilt Camera Dome Systems *(28 21 31 00-0145)*		
28 21 31 00-0169	EA	18X, Surface Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-SMB)	2,461.24	160.29
28 21 31 00-0170	EA	18X, In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-F)	2,610.60	160.29
28 21 31 00-0171	EA	18X, Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PB)	2,742.73	160.29
28 21 31 00-0172	EA	18X, Environmental In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-F-E)	2,818.85	160.29
28 21 31 00-0173	EA	18X, Environmental Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PG-E)	2,818.85	160.29
28 21 31 00-0174	EA	35X, Surface Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-SMB)	2,944.52	160.29
28 21 31 00-0175	EA	35X, In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-F)	3,179.34	160.29
28 21 31 00-0176	EA	35X, Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PB)	3,311.47	160.29
28 21 31 00-0177	EA	35X, Environmental In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-F-E)	3,387.59	160.29
28 21 31 00-0178	EA	35X, Environmental Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PG-E)	3,387.59	160.29
28 21 31 00-0179		Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems *(28 21 31 00-0144)*		
28 21 31 00-0180		Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems *(28 21 31 00-0179)*		
28 21 31 00-0181	EA	16X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HF)	2,410.25	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0182	EA	16X, Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HP)	2,538.07	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0183	EA	16X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HPE)	2,640.04	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0184	EA	22X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HF)	2,972.52	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0185	EA	22X, Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HP)	3,100.35	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0186	EA	22X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HPE)	3,203.03	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0187		Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems *(28 21 31 00-0179)*		
28 21 31 00-0188	EA	18X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HF)	2,997.66	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0189	EA	18X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HP)	3,125.48	160.29
		For Protective Lower Dome Cage, Add	*34.65*	

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28 21 31 00-0190	EA	18X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HPE)	3,228.17	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0191	EA	35X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HF)	3,522.59	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0192	EA	35X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HP)	3,649.69	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0193	EA	35X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HPE)	3,752.38	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0194		**Pressurized Spectra® IV, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0144)*		
28 21 31 00-0195		**Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0194)*		
28 21 31 00-0196	EA	18X, Environmental Pendant Mount, Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PRE)	3,940.52	160.29
28 21 31 00-0197	EA	35X, Environmental Pendant Mount, Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PRE)	4,465.45	160.29
28 21 31 00-0198		**Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0144)*		
28 21 31 00-0199		**Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0198)*		
28 21 31 00-0200	EA	22X, Environmental Pendant Mount, Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PSGE)	3,436.42	160.29
28 21 31 00-0201		**Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0198)*		
28 21 31 00-0202	EA	16X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PSGE)	3,001.25	160.29
28 21 31 00-0203	EA	22X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PSGE)	3,564.24	160.29
28 21 31 00-0204		**Color/Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0198)*		
28 21 31 00-0205	EA	23X, Environmental Pendant Mount, Color/Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PSGE)	3,932.62	160.29
28 21 31 00-0206		**Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0198)*		
28 21 31 00-0207	EA	18X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PSGE)	3,589.37	160.29
28 21 31 00-0208	EA	35X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PSGE)	4,113.58	160.29
28 21 31 00-0209		**Miniature Spectra®, Mini Pan/Tilt Camera Dome Systems** *(28 21 31 00-0144)*		
28 21 31 00-0210		**Color, Miniature Spectra®, Mini Pan/Tilt Camera Dome Systems** *(28 21 31 00-0209)*		
28 21 31 00-0211	EA	10X, In-Ceiling Mount, Color, Miniature Spectra®, Mini Pan/Tilt Camera Dome System (Pelco SD4-B)	1,424.30	160.29
28 21 31 00-0212		**Spectra® IP Network, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0143)*		
		Note: Includes simultaneous IP and analog video and control, dome drive, camera, lens, back box, clear or smoked lower dome and mounting hardware.		
28 21 31 00-0213		**Spectra® IV IP Network, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0212)*		
28 21 31 00-0214		**Color, Spectra® IV IP Network, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0213)*		
28 21 31 00-0215	EA	16X, In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-F)	2,558.90	160.29
28 21 31 00-0216	EA	16X, Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-PB)	2,691.75	160.29
28 21 31 00-0217	EA	16X, Environmental In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-F-E)	2,767.86	160.29
28 21 31 00-0218	EA	16X, Environmental Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-PG-E)	2,767.86	160.29
28 21 31 00-0219	EA	22X, In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-F1)	3,165.69	160.29
28 21 31 00-0220	EA	22X, Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-PB-1)	3,298.54	160.29
28 21 31 00-0221	EA	22X, Environmental In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-F-E1)	3,374.66	160.29
28 21 31 00-0222	EA	22X, Environmental Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-PG-E1)	3,374.66	160.29
28 21 31 00-0223		**Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0213)*		
28 21 31 00-0224	EA	23X, In-Ceiling Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-F1)	3,534.08	160.29

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0225	EA	23X, Pendant Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-PB-1)	3,666.93	160.29
28 21 31 00-0226	EA	23X, Environmental In-Ceiling Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-F-E1)	3,743.04	160.29
28 21 31 00-0227	EA	23X, Environmental Pendant Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-PG-E1)	3,743.04	160.29
28 21 31 00-0228		**Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0212)*		
28 21 31 00-0229		**Color, Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0228)*		
28 21 31 00-0230	EA	16X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HF1)	2,946.67	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0231	EA	16X, Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HP1)	3,074.49	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0232	EA	16X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HPE1)	3,176.46	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0233	EA	22X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HF1)	3,508.94	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0234	EA	22X, Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HP1)	3,636.77	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0235	EA	22X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HPE1)	3,739.45	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0236		**Day/Night, Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0228)*		
28 21 31 00-0237	EA	18X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HF1)	3,534.08	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0238	EA	18X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HP1)	3,661.90	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0239	EA	18X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HPE1)	3,764.59	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0240	EA	35X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HF1)	4,059.01	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0241	EA	35X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HP1)	4,186.11	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0242	EA	35X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HPE1)	4,288.80	160.29
		For Protective Lower Dome Cage, Add	*34.65*	
28 21 31 00-0243		**Stainless Steel Spectra® IV IP Network, Pan/Tilt Camera Dome Systems** *(28 21 31 00-0212)*		
28 21 31 00-0244		**Color, Stainless Steel Spectra® IV IP Network, Camera Dome Systems** *(28 21 31 00-0243)*		
28 21 31 00-0245	EA	16X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-PSGE1)	3,537.67	160.29
28 21 31 00-0246	EA	22X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-PSGE1)	4,100.66	160.29
28 21 31 00-0247		**Color/Black And White, Stainless Steel Spectra® IV IP Network, Camera Dome Systems** *(28 21 31 00-0243)*		
28 21 31 00-0248	EA	23X, Environmental Pendant Mount, Color/Black And White, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-PSGE1)	4,469.04	160.29
28 21 31 00-0249		**Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome Systems** *(28 21 31 00-0243)*		
28 21 31 00-0250	EA	18X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-PSGE1)	4,125.79	160.29
28 21 31 00-0251	EA	35X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-PSGE1)	4,650.00	160.29
28 21 31 00-0252		**Miniature Spectra® IP Network, Mini Pan/Tilt Camera Dome Systems** *(28 21 31 00-0212)*		
28 21 31 00-0253		**Color, Miniature Spectra® IP Network, Mini Camera Dome Systems** *(28 21 31 00-0252)*		
28 21 31 00-0254	EA	10X, In-Ceiling Mount, Color, Miniature Spectra® IP Network, Black Mini Camera Dome System (Pelco SD4N-W1)	1,770.42	160.29

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0255		**Spectra®, Pan/Tilt Dome Drives** *(28 21 31 00-0143)*		
		Note: Includes dome drive, camera and lens.		
28 21 31 00-0256	EA	10X, Color Camera, Spectra® Mini Dome Drive (Pelco DD4)	1,317.00	133.57
28 21 31 00-0257	EA	10X, Color Camera, Spectra® IP Network, Mini Dome Drive (Pelco DD4N)	1,661.69	133.57
28 21 31 00-0258	EA	22X, Black And White Camera, Spectra® IV Dome Drive (Pelco DD4M22)	2,087.52	133.57
28 21 31 00-0259	EA	16X, Color Camera, Spectra® IV Dome Drive (Pelco DD4TC16)	1,652.35	133.57
28 21 31 00-0260	EA	22X, Color Camera, Spectra® IV Dome Drive (Pelco DD4C22)	2,214.63	133.57
28 21 31 00-0261	EA	18X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW18)	2,239.76	133.57
28 21 31 00-0262	EA	23X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW23)	2,583.01	133.57
28 21 31 00-0263	EA	35X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW35)	2,764.69	133.57
28 21 31 00-0264	EA	35X, Color/Black And White Camera, Spectra® IV Horizon Dome Drive (Pelco DD4H35)	2,764.69	133.57
28 21 31 00-0265		**Accessories For Spectra® Pan/Tilt Camera Dome Systems** *(28 21 31 00-0143)*		
28 21 31 00-0266	EA	Upgrade To Chrome Lower Dome (Pelco Spectra)	101.25	
28 21 31 00-0267	EA	Upgrade To Gold Lower Dome (Pelco Spectra)	132.13	
28 21 31 00-0268	EA	Wall Mount For Spectra® Systems (Pelco IWM-BK)	115.76	13.36
28 21 31 00-0269	EA	24 Volt Out, Wall Mount For Spectra® Systems (Pelco IWM24-BK)	283.08	13.36
28 21 31 00-0270	EA	Wall Arm Mount For Spectra® Systems (Pelco IDM4018)	112.89	13.36
28 21 31 00-0271	EA	Wall Arm Mount With Feed Through For Stainless Steel Spectra® IV Systems (Pelco IDM4012SS)	256.60	13.36
28 21 31 00-0272	EA	Pole Mount Adapter For Spectra® Systems (Pelco PA402)	63.07	7.95
28 21 31 00-0273		**Camclosure®, Camera Dome Systems** *(28 21 31 00-0142)*		
28 21 31 00-0274		**Camclosure® IS Integrated, Camera Dome Systems** *(28 21 31 00-0273)*		
28 21 31 00-0275		**Camclosure® IS Integrated, Camera Dome Systems** *(28 21 31 00-0274)*		
28 21 31 00-0276		**High Resolution Color, Camclosure® IS Integrated, Camera Dome Systems** *(28 21 31 00-0275)*		
28 21 31 00-0277	EA	12 mm, Indoor Surface/In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-CH12)	575.51	160.29
28 21 31 00-0278	EA	9-22 mm, Indoor Surface/In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-CHV22)	618.59	160.29
28 21 31 00-0279	EA	12 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS110-CH12)	679.63	160.29
28 21 31 00-0280	EA	12 mm, Environmental In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS150-CH12)	679.63	160.29
28 21 31 00-0281		**Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome Systems** *(28 21 31 00-0275)*		
28 21 31 00-0282	EA	9-22 mm, Indoor Surface/In-Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90B-CWV22)	687.53	160.29
28 21 31 00-0283	EA	9-22 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS111-CWV22)	743.54	160.29
28 21 31 00-0284	EA	9-22 mm, Environmental In-Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-CWV22)	743.54	160.29
28 21 31 00-0285		**Day/Night, Camclosure® IS Integrated, Camera Dome Systems** *(28 21 31 00-0275)*		
28 21 31 00-0286	EA	9-22 mm, Indoor Surface/In-Ceiling Mount, Day/Night, Camclosure® IS Integrated, White Camera Dome System (Pelco IS90-DNV22)	778.01	160.29
28 21 31 00-0287	EA	9-22 mm, Environmental Surface Mount, Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS111-DNV22)	916.60	160.29
28 21 31 00-0288	EA	9-22 mm, Environmental In-Ceiling Mount, Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-DNV22)	916.60	160.29
28 21 31 00-0289		**Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome Systems** *(28 21 31 00-0275)*		
28 21 31 00-0290	EA	9-22 mm, Indoor Surface/In-Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-DWV22)	844.07	160.29
28 21 31 00-0291	EA	9-22 mm, Environmental In-Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-DWV22)	933.12	160.29
28 21 31 00-0292		**Camclosure® IS Integrated, Bullet Style Camera Systems** *(28 21 31 00-0274)*		
28 21 31 00-0293		**High Resolution Color, Camclosure® IS Integrated, Bullet Style Camera Systems** *(28 21 31 00-0292)*		
28 21 31 00-0294	EA	3.6 mm, Wall/Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-CH3.6)	604.37	106.86
28 21 31 00-0295		**Wide Dynamic Range Color, Camclosure® IS Integrated, Bullet Style Camera Systems** *(28 21 31 00-0292)*		
28 21 31 00-0296	EA	9-22 mm, Wall/Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-CWV22)	685.51	106.86

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0297		Day/Night, Camclosure® IS Integrated, Bullet Style Camera Systems *(28 21 31 00-0292)*		
28 21 31 00-0298	EA	9-22 mm, Wall/Ceiling Mount, Day/Night, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-DNV22)	750.14	106.86
28 21 31 00-0299		Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Bullet Style Camera Systems *(28 21 31 00-0292)*		
28 21 31 00-0300	EA	9-22 mm, Wall/Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-DWV22)	782.46	106.86
28 21 31 00-0301		Camclosure® IS Integrated Cameras *(28 21 31 00-0274)*		
28 21 31 00-0302	EA	12 mm, High Resolution Color, Camclosure® IS Integrated Camera (Pelco IS-CH12)	439.20	106.86
28 21 31 00-0303	EA	9-22 mm, High Resolution Color, Camclosure® IS Integrated Camera (Pelco IS-CHV22)	439.20	106.86
28 21 31 00-0304	EA	9-22 mm, Wide Dynamic Range Color, Camclosure® IS Integrated Camera (Pelco IS-CWV22)	503.11	106.86
28 21 31 00-0305	EA	9-22 mm, Day/Night, Camclosure® IS Integrated Camera (Pelco IS-DNV22)	676.18	106.86
28 21 31 00-0306	EA	9-22 mm, Wide Dynamic Range Day/Night, Camclosure® IS Integrated Camera (Pelco IS-DWV22)	692.69	106.86
28 21 31 00-0307		Camclosure® ICS Integrated, Camera Dome Systems *(28 21 31 00-0273)*		
28 21 31 00-0308		Camclosure® ICS Integrated, Camera Dome Systems *(28 21 31 00-0307)*		
28 21 31 00-0309		Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome Systems *(28 21 31 00-0308)*		
28 21 31 00-0310	EA	12 mm, Indoor Surface/In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS090B-CA12)	504.41	160.29
28 21 31 00-0311	EA	12 mm, UTP, Indoor Surface/In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS090B-CA12T)	535.29	160.29
28 21 31 00-0312	EA	12 mm, Environmental Surface Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS110-CA12)	658.81	160.29
28 21 31 00-0313	EA	12 mm, Environmental In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS150-CA12)	658.81	160.29
28 21 31 00-0314		High Resolution Color, Camclosure® ICS Integrated, Camera Dome Systems *(28 21 31 00-0308)*		
28 21 31 00-0315	EA	3–9 mm, Environmental In-Ceiling Mount, High Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS151-CDV39A)	797.40	160.29
28 21 31 00-0316		Camclosure® ICS Integrated, Bullet Style Camera Systems *(28 21 31 00-0307)*		
28 21 31 00-0317		Standard Resolution, Camclosure® ICS Integrated, Bullet Style Camera Systems *(28 21 31 00-0316)*		
28 21 31 00-0318	EA	12 mm, Wall/Ceiling Mount, Standard Resolution, Camclosure® ICS Integrated, Bullet Style Camera System (Pelco ICS310-CA12)	551.95	106.86
28 21 31 00-0319		Camclosure® ICS Integrated, Wedge Style Camera Systems *(28 21 31 00-0307)*		
28 21 31 00-0320		High Resolution Color, Camclosure® ICS Integrated, Wedge Style Camera Systems *(28 21 31 00-0319)*		
28 21 31 00-0321	EA	9-22 mm, High Resolution, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-CHV22)	743.54	160.29
28 21 31 00-0322		Wide Dynamic Range Color, Camclosure® ICS Integrated, Wedge Style Camera Systems *(28 21 31 00-0319)*		
28 21 31 00-0323	EA	9-22 mm, Wide Dynamic Range, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-CWV22)	808.17	160.29
28 21 31 00-0324		Day/Night, Camclosure® ICS Integrated, Wedge Style Camera Systems *(28 21 31 00-0319)*		
28 21 31 00-0325	EA	9-22 mm, Day/Night, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-DNV22)	889.32	160.29
28 21 31 00-0326		Wide Dynamic Range Day/Night, Camclosure® ICS Integrated, Wedge Style Camera Systems *(28 21 31 00-0319)*		
28 21 31 00-0327	EA	9-22 mm, Wide Dynamic Range Day/Night, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-DWV22)	921.63	160.29
28 21 31 00-0328		Camclosure® IP Network, Camera Dome Systems *(28 21 31 00-0273)*		
28 21 31 00-0329		Camclosure® IP Network, Camera Dome Systems *(28 21 31 00-0328)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0330		**High Resolution Color, Camclosure® IP Network, Camera Dome Systems** *(28 21 31 00-0329)*		
28 21 31 00-0331	EA	3-9.5 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CHV9)	1,277.81	160.29
28 21 31 00-0332	EA	9-22 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CHV22)	1,277.81	160.29
28 21 31 00-0333		**Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome Systems** *(28 21 31 00-0329)*		
28 21 31 00-0334	EA	3-9.5 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CWV9)	1,366.85	160.29
28 21 31 00-0335	EA	9-22 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CWV22)	1,366.85	160.29
28 21 31 00-0336		**Day/Night, Camclosure® IP Network, Camera Dome Systems** *(28 21 31 00-0329)*		
28 21 31 00-0337	EA	3-9.5 mm, Environmental Surface Mount, Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP111-DNV9)	1,504.01	160.29
28 21 31 00-0338	EA	9-22 mm, Environmental Surface Mount, Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP111-DNV22)	1,504.01	160.29
28 21 31 00-0339		**Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome Systems** *(28 21 31 00-0329)*		
28 21 31 00-0340	EA	3-9.5 mm, Environmental Surface Mount, Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP110-DWV9)	1,600.95	160.29
28 21 31 00-0341	EA	9-22 mm, Environmental Surface Mount, Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP110-DWV22)	1,600.95	160.29
28 21 31 00-0342		**Accessories For Camclosure® Camera Dome Systems** *(28 21 31 00-0273)*		
28 21 31 00-0343	EA	4S Gangbox Adapter Plate For ICS110 Camclosure® Systems (Pelco ICS110-AP)	28.96	8.01
28 21 31 00-0344	EA	4S Adapter Plate For ICS310 Camclosure® Systems (Pelco ICS310-AP)	28.96	8.01
28 21 31 00-0345	EA	Sun Shield For ICS310 Camclosure® Systems (Pelco ICS310-SS)	39.65	13.36
28 21 31 00-0346	EA	Conduit Adapter For ICS310 Camclosure® Systems (Pelco ICS310-COND)	59.75	13.36
28 21 31 00-0347	EA	2' x 2' Ceiling Panel For ICS150 Camclosure® Systems (Pelco ICS150-P)	59.12	8.01
28 21 31 00-0348	EA	Pendant Mount Adapter For Camclosure® ICS110 Systems (Pelco ICS110-PG)	59.75	13.36
28 21 31 00-0349	EA	Corner Mount Adapter For ICS200 Camclosure® Systems (Pelco ICS210-CM)	74.11	13.36
28 21 31 00-0350	EA	Smoked, Surface Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO110A)	194.18	26.72
28 21 31 00-0351	EA	Clear, Surface Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO111A)	194.18	26.72
28 21 31 00-0352	EA	Smoked, In-Ceiling Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO150A)	194.18	26.72
28 21 31 00-0353	EA	Clear, In-Ceiling Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO151A)	194.18	26.72
28 21 31 00-0354	EA	Pendant Mount Adapter For Camclosure® IP Systems (Pelco IP110-P)	70.52	13.36
28 21 31 00-0355	EA	Smoked Lower Dome For Surface Mount Camclosure® IP Systems (Pelco IP110-LD)	85.74	26.72
28 21 31 00-0356	EA	Clear Lower Dome For Surface Mount Camclosure® IP Systems (Pelco IP111-LD)	85.74	26.72
28 21 31 00-0357	EA	Smoked Lower Dome For Surface Mount Camclosure® IS Systems (Pelco IS110-LD)	85.74	26.72
28 21 31 00-0358	EA	Clear Lower Dome For Surface Mount Camclosure® IS Systems (Pelco IS111-LD)	85.74	26.72
28 21 31 00-0359	EA	Smoked Lower Dome For Ceiling Mount Camclosure® IS Systems (Pelco IS150-LD)	85.74	26.72
28 21 31 00-0360	EA	Clear Lower Dome For Ceiling Mount Camclosure® IS Systems (Pelco IS151-LD)	85.74	26.72
28 21 31 00-0361	EA	Ceiling Mount Enclosure Only, Environmental, Camclosure® IS Systems (Pelco IS150-ENC)	247.20	36.49
28 21 31 00-0362	EA	Black Pendant Mount For Indoor Camclosure® IS Systems (Pelco IS90B-P)	51.85	13.36
28 21 31 00-0363	EA	Black Pendant Wall Mount For Indoor Camclosure® IS Systems (Pelco IS90B-PW)	84.17	13.36
28 21 31 00-0364	EA	White Pendant Mount For Indoor Camclosure® IS Systems (Pelco IS90-P)	51.85	13.36
28 21 31 00-0365	EA	White Pendant Wall Mount For Indoor Camclosure® IS Systems (Pelco IS90-PW)	84.17	13.36
28 21 31 00-0366	EA	Surface Mount Enclosure Only, Environmental, IP Camclosure® (Pelco IP110-ENC)	1,196.66	160.29
28 21 31 00-0367		**Pan/Tilt Camera Systems** *(28 21 31 00-0141)*		
28 21 31 00-0368		**Esprit® CBZ, Pan/Tilt Camera Systems** *(28 21 31 00-0367)*		
		Note: Includes powder coated aluminum pan/tilt enclosure, receiver, camera, lens, built in heater, window defroster/defogger, sun shroud, insulation blanket, 24V power supply and mounting hardware.		
28 21 31 00-0369		**EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems** *(28 21 31 00-0368)*		
28 21 31 00-0370		**Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems** *(28 21 31 00-0369)*		
28 21 31 00-0371	EA	10X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10N)	3,290.80	240.43
28 21 31 00-0372	EA	20X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20N)	3,722.37	240.43
28 21 31 00-0373	EA	30X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30N)	4,320.55	240.43
28 21 31 00-0374	EA	10X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10PN)	3,383.43	240.43
28 21 31 00-0375	EA	20X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20PN)	3,834.40	240.43
28 21 31 00-0376	EA	30X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30PN)	4,432.57	240.43

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0377		**Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems** *(28 21 31 00-0369)*		
28 21 31 00-0378	EA	10X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10W)	3,320.24	240.43
28 21 31 00-0379	EA	20X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20W)	3,751.82	240.43
28 21 31 00-0380	EA	30X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30W)	4,349.99	240.43
28 21 31 00-0381	EA	10X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10PW)	3,413.59	240.43
28 21 31 00-0382	EA	20X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20PW)	3,863.84	240.43
28 21 31 00-0383	EA	30X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30PW)	4,462.02	240.43
28 21 31 00-0384		**Esprit® CLZ, Pan/Tilt Camera Systems** *(28 21 31 00-0367)*		
28 21 31 00-0385		**DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems** *(28 21 31 00-0384)*		
28 21 31 00-0386		**Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems** *(28 21 31 00-0385)*		
28 21 31 00-0387	EA	10X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10N)	3,402.82	240.43
28 21 31 00-0388	EA	20X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20N)	3,834.40	240.43
28 21 31 00-0389	EA	30X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30N)	4,432.57	240.43
28 21 31 00-0390	EA	10X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10PN)	3,495.45	240.43
28 21 31 00-0391	EA	20X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20PN)	3,946.42	240.43
28 21 31 00-0392	EA	30X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30PN)	4,544.60	240.43
28 21 31 00-0393		**Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems** *(28 21 31 00-0385)*		
28 21 31 00-0394	EA	10X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10W)	3,432.26	240.43
28 21 31 00-0395	EA	20X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20W)	3,863.84	240.43
28 21 31 00-0396	EA	30X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30W)	4,462.02	240.43
28 21 31 00-0397	EA	10X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10PW)	3,525.61	240.43
28 21 31 00-0398	EA	20X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20PW)	3,975.86	240.43
28 21 31 00-0399	EA	30X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30PW)	4,574.04	240.43
28 21 31 00-0400		**Esprit® AJZ, Pan/Tilt Camera Systems** *(28 21 31 00-0367)*		
28 21 31 00-0401		**High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems** *(28 21 31 00-0400)*		
28 21 31 00-0402		**Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems** *(28 21 31 00-0401)*		
28 21 31 00-0403	EA	6 x 10, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10N)	3,215.39	240.43
28 21 31 00-0404	EA	5.6 x 20, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20N)	3,646.97	240.43
28 21 31 00-0405	EA	5.5 x 30, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30N)	4,245.15	240.43
28 21 31 00-0406	EA	6 x 10, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10PN)	3,308.75	240.43
28 21 31 00-0407	EA	5.6 x 20, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20PN)	3,759.00	240.43
28 21 31 00-0408	EA	5.5 x 30, Preset Positioning, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30PN)	4,357.17	240.43
28 21 31 00-0409		**Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems** *(28 21 31 00-0401)*		
28 21 31 00-0410	EA	6 x 10, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10W)	3,245.55	240.43
28 21 31 00-0411	EA	5.6 x 20, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20W)	3,676.41	240.43
28 21 31 00-0412	EA	5.5 x 30, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30W)	4,275.31	240.43
28 21 31 00-0413	EA	6 x 8, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ8PW)	3,266.38	240.43
28 21 31 00-0414	EA	6 x 10, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10W)	3,338.19	240.43
28 21 31 00-0415	EA	5.6 x 20, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20PW)	3,788.44	240.43
28 21 31 00-0416	EA	5.5 x 30, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30PW)	4,387.33	240.43

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0417		Esprit® AMZ, Pan/Tilt Camera Systems *(28 21 31 00-0367)*		
28 21 31 00-0418		Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems *(28 21 31 00-0417)*		
28 21 31 00-0419		Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems *(28 21 31 00-0418)*		
28 21 31 00-0420	EA	5.6 x 20, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20N)	3,825.78	240.43
28 21 31 00-0421	EA	5.5 x 30, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30N)	4,423.96	240.43
28 21 31 00-0422	EA	6 x 10, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10PN)	3,487.55	240.43
28 21 31 00-0423	EA	5.6 x 20, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20PN)	3,937.80	240.43
28 21 31 00-0424	EA	5.5 x 30, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30PN)	4,535.98	240.43
28 21 31 00-0425		Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems *(28 21 31 00-0418)*		
28 21 31 00-0426	EA	6 x 10, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10W)	3,424.36	240.43
28 21 31 00-0427	EA	5.6 x 20, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20W)	3,855.22	240.43
28 21 31 00-0428	EA	5.5 x 30, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30W)	4,454.12	240.43
28 21 31 00-0429	EA	6 x 10, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10PW)	3,517.00	240.43
28 21 31 00-0430	EA	5.6 x 20, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20PW)	3,967.25	240.43
28 21 31 00-0431	EA	5.5 x 30, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30PW)	4,566.14	240.43
28 21 31 00-0432		Esprit® KWZ, Pan/Tilt Camera Systems *(28 21 31 00-0367)*		
28 21 31 00-0433		Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems *(28 21 31 00-0432)*		
28 21 31 00-0434		Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems *(28 21 31 00-0433)*		
28 21 31 00-0435	EA	5.5 x 30, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30N)	4,519.46	240.43
28 21 31 00-0436	EA	6 x 10, Preset Positioning, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10PN)	3,582.34	240.43
28 21 31 00-0437	EA	5.5 x 30, Preset Positioning, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30PN)	4,631.49	240.43
28 21 31 00-0438		Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems *(28 21 31 00-0433)*		
28 21 31 00-0439	EA	6 x 10, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10W)	3,519.15	240.43
28 21 31 00-0440	EA	5.5 x 30, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30W)	4,549.62	240.43
28 21 31 00-0441	EA	6 x 10, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10PW)	3,612.50	240.43
28 21 31 00-0442	EA	5.6 x 20, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ20PW)	4,062.75	240.43
28 21 31 00-0443	EA	5.5 x 30, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30PW)	4,661.65	240.43
28 21 31 00-0444		Esprit® IOC, Pan/Tilt Camera Systems *(28 21 31 00-0367)*		
28 21 31 00-0445		Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems *(28 21 31 00-0444)*		
28 21 31 00-0446		Pedestal Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems *(28 21 31 00-0445)*		
28 21 31 00-0447	EA	16X, Pedestal Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC16-2N)	3,820.03	240.43
28 21 31 00-0448		Wall Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems *(28 21 31 00-0445)*		
28 21 31 00-0449	EA	16X, Wall Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC16-2W)	3,849.48	240.43
28 21 31 00-0450		High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems *(28 21 31 00-0444)*		
28 21 31 00-0451		Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems *(28 21 31 00-0450)*		
28 21 31 00-0452	EA	22X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC22-2N)	4,519.46	240.43
28 21 31 00-0453	EA	24X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW24-2N)	4,372.97	240.43
28 21 31 00-0454	EA	35X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW35-2N)	4,958.22	240.43
28 21 31 00-0455		Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems *(28 21 31 00-0450)*		
28 21 31 00-0456	EA	22X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC22-2W)	4,548.19	240.43
28 21 31 00-0457	EA	24X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW24-2W)	4,372.97	240.43
28 21 31 00-0458	EA	35X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW35-2W)	4,990.54	240.43

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0459		Esprit® IOP, Pan/Tilt Camera Systems *(28 21 31 00-0367)*		
28 21 31 00-0460		High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems *(28 21 31 00-0459)*		
28 21 31 00-0461		Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems *(28 21 31 00-0460)*		
28 21 31 00-0462	EA	16X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C16-2N)	2,959.03	240.43
28 21 31 00-0463	EA	22X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C22-2N)	3,659.18	240.43
28 21 31 00-0464	EA	24X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW24-2N)	3,514.84	240.43
28 21 31 00-0465	EA	35X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW35-2N)	3,970.84	240.43
28 21 31 00-0466		Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems *(28 21 31 00-0460)*		
28 21 31 00-0467	EA	16X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C16-2W)	2,987.76	240.43
28 21 31 00-0468	EA	22X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C22-2W)	3,688.62	240.43
28 21 31 00-0469	EA	24X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW24-2W)	3,544.28	240.43
28 21 31 00-0470	EA	35X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW35-2W)	4,003.15	240.43
28 21 31 00-0471		Esprit® Thermal, Pan/Tilt Camera Systems *(28 21 31 00-0367)*		
28 21 31 00-0472		Esprit® Thermal, Pan/Tilt Camera Systems *(28 21 31 00-0471)*		
28 21 31 00-0473		Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera Systems *(28 21 31 00-0472)*		
28 21 31 00-0474	EA	14.25 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3014TI-2N)	18,510.21	240.43
28 21 31 00-0475	EA	35 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3035TI-2N)	19,898.29	240.43
28 21 31 00-0476	EA	50 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3050TI-2N)	20,364.34	240.43
28 21 31 00-0477		Wall Mount, Esprit® Thermal, Pan/Tilt Camera Systems *(28 21 31 00-0472)*		
28 21 31 00-0478	EA	14.25 mm, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3014TI-2W)	18,540.37	240.43
28 21 31 00-0479	EA	35 mm, 30 Hertz, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3035TI-2W)	19,927.74	240.43
28 21 31 00-0480	EA	50 mm, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3050TI-2W)	20,393.78	240.43
28 21 31 00-0481		Accessories For Esprit® Pan/Tilt Camera Systems *(28 21 31 00-0367)*		
28 21 31 00-0482	EA	Wiper Blade Replacement For Esprit® Systems (Pelco ES-REPLBLADE)	9.15	2.67
28 21 31 00-0483	EA	Marine Mounting Kit For Esprit® Systems (Pelco ES-MKIT)	51.85	13.36
28 21 31 00-0484	EA	Indoor/Outdoor Wall Mount For Esprit® Systems (Pelco EWM)	77.71	13.36
28 21 31 00-0485	EA	Wall Mount For High Security Enclosures (Pelco HSWM12)	97.09	13.36
28 21 31 00-0486	EA	Ground Isolation Transformer (Pelco GIT100)	297.47	36.49
28 21 31 00-0487	EA	High Security, Indoor Wedge Style Enclosure (Pelco HS2100)	494.97	36.49
28 21 31 00-0488	EA	High Security, Indoor 10" Length Enclosure (Pelco HS3000)	349.89	36.49
28 21 31 00-0489	EA	High Security, Indoor Medium Corner Mount Enclosure (Pelco HS1500)	574.86	36.49
28 21 31 00-0490	EA	High Security, Ceiling Mount, Lexan Window, Aluminum Enclosure (Pelco HS8080)	278.08	36.49
28 21 31 00-0491	EA	High Security, Ceiling Mount, Lexan Window, Steel Enclosure (Pelco HS8134)	824.36	36.49
28 21 31 00-0492	EA	Bullet-Resistant, Outdoor Enclosure (Pelco HS4514)	1,025.62	36.49
28 21 31 00-0493	EA	Bullet-Resistant, Outdoor Enclosure With Mount (Pelco HS4514/MT)	1,213.05	36.49
28 21 31 00-0494	EA	24X, Color/Black And White, Esprit® Camera Module (Pelco ESIOPCBW24)	1,255.41	36.49
28 21 31 00-0495	EA	35X, Color/Black And White, Esprit® Camera Module (Pelco ESIOPCBW35)	1,322.20	36.49
28 21 31 00-0496	EA	24 Volt AC, Esprit® Pan Tilt Enclosure Receiver (Pelco ES3012-2)	2,108.30	36.49
28 21 31 00-0497	EA	24 Volt AC, Pedestal Mount, Esprit® Pan/Tilt Enclosure Receiver (Pelco ES3012-2N)	2,133.33	36.49
28 21 31 00-0498	EA	24 Volt AC, Wall Mount, Esprit® Pan/Tilt Enclosure Receiver (Pelco ES3012-2W)	2,157.36	36.49
28 21 31 00-0499	EA	30X, 24 Volt AC, DSS, Color High Resolution, Esprit® CLZ Pan/Tilt Camera System (Pelco ES3012-2CLZ30)	4,076.11	36.49
28 21 31 00-0500	EA	30X, 24 Volt AC, Preset Positioning, DSS, Color High Resolution, Esprit® CLZ Pan/Tilt Camera System (Pelco ES3012-2CLZ30P)	4,188.13	36.49
28 21 31 00-0501	EA	Esprit® Camera Pole Mount Adapter (Pelco EPM)	96.74	8.60
28 21 31 00-0502	EA	Pole Mount Adapter For Esprit® Systems (Pelco EPM)	96.74	8.60
28 21 31 00-0503		Camera Lenses *(28 21 31 00-0002)*		
28 21 31 00-0504		Fixed Focus Camera Lenses *(28 21 31 00-0503)* Note: 1/3" format and manual focus.		
28 21 31 00-0505		Manual Iris, Fixed Focus Camera Lenses *(28 21 31 00-0504)*		
28 21 31 00-0506	EA	2.3 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA2.3)	127.70	12.53
28 21 31 00-0507	EA	2.8 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA2.8)	107.60	12.53
28 21 31 00-0508	EA	4 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA4)	97.54	12.53
28 21 31 00-0509	EA	8 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA8)	95.39	12.53
28 21 31 00-0510		Direct Drive Auto Iris, Fixed Focus Camera Lenses *(28 21 31 00-0504)* Note: Includes spot filter. Excludes amplifier.		
28 21 31 00-0511	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD2.3)	157.15	12.53
28 21 31 00-0512	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD2.8)	127.70	12.53
28 21 31 00-0513	EA	4 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD4)	120.52	12.53
28 21 31 00-0514	EA	8 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD8)	88.93	12.53

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28 21 31 00-0515		**Video Drive Auto Iris, Fixed Focus Camera Lenses** *(28 21 31 00-0504)*		
		Note: Includes LDC100 adapter to convert DC auto iris to video drive.		
28 21 31 00-0516	EA	2.3 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV2.3S)	183.72	12.53
28 21 31 00-0517	EA	2.8 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV2.8S)	153.56	12.53
28 21 31 00-0518	EA	4 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV4S)	146.38	12.53
28 21 31 00-0519	EA	8 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV8S)	140.63	12.53
28 21 31 00-0520		**Varifocal Camera Lenses** *(28 21 31 00-0503)*		
		Note: 1/3" format and manual focus and zoom.		
28 21 31 00-0521		**Manual Iris, Varifocal Camera Lenses** *(28 21 31 00-0520)*		
28 21 31 00-0522	EA	1.6-3.4 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA1-3)	207.14	12.53
28 21 31 00-0523	EA	2.5-6 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA2.5-6)	147.81	12.53
28 21 31 00-0524	EA	2.8-12 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA2.8-12)	116.93	12.53
28 21 31 00-0525	EA	3-8 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA3-8)	104.01	12.53
28 21 31 00-0526	EA	5.5-82.5 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5.5-82.5)	255.53	12.53
28 21 31 00-0527	EA	5-40 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5-40)	160.88	12.53
28 21 31 00-0528	EA	5-50 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5-50)	171.40	12.53
28 21 31 00-0529		**Direct Drive Auto Iris, Varifocal Camera Lenses** *(28 21 31 00-0520)*		
		Note: Includes spot filter.		
28 21 31 00-0530	EA	1.6-3.4 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD1-3)	203.63	12.53
28 21 31 00-0531	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD2.5-6)	179.81	12.53
28 21 31 00-0532	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD2.8-12)	137.75	12.53
28 21 31 00-0533	EA	3-8 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD3-8)	102.71	12.53
28 21 31 00-0534	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD5.5-82.5)	277.79	12.53
28 21 31 00-0535	EA	5-50 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD5-50)	201.53	12.53
28 21 31 00-0536		**Video Drive Auto Iris, Varifocal Camera Lenses** *(28 21 31 00-0520)*		
		Note: Includes spot filter.		
28 21 31 00-0537	EA	1.6-3.4 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV1-3S)	244.76	12.53
28 21 31 00-0538	EA	2.5-6 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV2.5-6S)	218.19	12.53
28 21 31 00-0539	EA	3-8 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV3-8S)	134.89	12.53
28 21 31 00-0540	EA	5-50 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV5-50S)	241.88	12.53
28 21 31 00-0541		**Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lenses** *(28 21 31 00-0520)*		
28 21 31 00-0542	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VDIR3-8.5)	118.83	12.53
28 21 31 00-0543	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VDIR7.5-50)	178.40	12.53
28 21 31 00-0544		**Motorized Zoom Camera Lenses** *(28 21 31 00-0503)*		
		Note: 1/3" format.		
28 21 31 00-0545		**Manual Iris, Motorized Zoom Camera Lenses** *(28 21 31 00-0544)*		
28 21 31 00-0546	EA	8X Zoom, 6-48 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X8)	436.49	12.53
28 21 31 00-0547	EA	10X Zoom, 6-60 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X10)	542.77	12.53
28 21 31 00-0548	EA	15X Zoom, 6-90 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X15)	577.95	12.53
28 21 31 00-0549		**Direct Drive Auto Iris, Motorized Zoom Camera Lenses** *(28 21 31 00-0544)*		
		Note: Includes spot filter.		
28 21 31 00-0550	EA	6X Zoom, 6-48 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X8)	473.46	12.53
28 21 31 00-0551	EA	10X Zoom, 6-60 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X10)	547.05	12.53
28 21 31 00-0552	EA	15X Zoom, 6-90 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X15)	637.56	12.53
28 21 31 00-0553	EA	20X Zoom, 5.6-112 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD5.6X20)	938.11	12.53
28 21 31 00-0554	EA	30X Zoom, 5.5-165 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD5.5X30)	1,861.12	12.53
28 21 31 00-0555		**Video Drive Auto Iris, Motorized Zoom Camera Lenses** *(28 21 31 00-0544)*		
		Note: Includes spot filter.		
28 21 31 00-0556	EA	8X Zoom, 6-48 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X8S)	447.26	12.53
28 21 31 00-0557	EA	10X Zoom, 6-60 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X10S)	530.56	12.53
28 21 31 00-0558	EA	15X Zoom, 6-90 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X15S)	664.13	12.53
28 21 31 00-0559	EA	20X Zoom, 5.6-112 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV5.6X20S)	962.14	12.53
28 21 31 00-0560	EA	30X Zoom, 5.5-165 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV5.5X30S)	1,560.31	12.53
28 21 31 00-0561		**Camera Power Supplies** *(28 21 31 00-0002)*		
28 21 31 00-0562	EA	20 VA, 24 Volt AC, Camera Power Transformer (Pelco TF2000)	34.30	10.69
28 21 31 00-0563	EA	50 VA, 24 Volt AC, Camera Power Transformer (Pelco TF9000)	55.84	10.69
28 21 31 00-0564	EA	2 Amp, 4 Outputs, Camera Power Supply (Pelco MCS4-2)	270.52	21.37
28 21 31 00-0565	EA	5 Amp, 8 Outputs, Camera Power Supply (Pelco MCS8-5)	312.92	32.06
28 21 31 00-0566	EA	10 Amp, 16 Outputs, Camera Power Supply (Pelco MCS16-10)	353.20	42.75
		For Switchable Outputs, Add	*160.63*	
28 21 31 00-0567	EA	20 Amp, 16 Outputs, Camera Power Supply (Pelco MCS16-20)	395.61	53.43
		For Switchable Outputs, Add	*173.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0568		**Camera Illuminators** *(28 21 31 00-0002)*		
28 21 31 00-0569		**Camera Illuminators** *(28 21 31 00-0568)*		
		Note: Includes lamp and mounting bracket.		
28 21 31 00-0570	EA	Narrow Spot Lamp, Low Light Level Camera Illuminator (Pelco LL27MF)	1,142.88	21.37
28 21 31 00-0571	EA	Infrared Narrow Spot Lamp, Low Light Level Camera Illuminator (Pelco LL27NS)	1,142.88	21.37
28 21 31 00-0572	EA	Flood Lamp, Low Light Level Camera Illuminator (Pelco LL27WF)	1,142.88	21.37
28 21 31 00-0573		**Camera Illuminator Accessories** *(28 21 31 00-0568)*		
28 21 31 00-0574	EA	Removal And Replacement Of Lamp For Low Light Level Camera Illuminator (Pelco PAR56)	103.79	21.37
28 21 31 00-0575		**Camera Receivers** *(28 21 31 00-0002)*		
28 21 31 00-0576	EA	24 Volt AC, Coaxitron® Outdoor Camera Receiver With Preset Positioning (Pelco CX9024RX-PP)	1,131.90	36.49
28 21 31 00-0577	EA	120 Volt AC, Coaxitron® Outdoor Camera Receiver With Preset Positioning (Pelco CX9115RX-PP)	1,131.90	36.49
28 21 31 00-0578		**Pan And Tilt Drives** *(28 21 31 00-0002)*		
28 21 31 00-0579	EA	15 LB Load, 24 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT270-24P)	815.92	80.14
28 21 31 00-0580	EA	40 LB Load, 24/120 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT570-24P)	1,025.60	80.14
		For Preset Positioning, Add	*165.00*	
28 21 31 00-0581	EA	100 LB Load, 120 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT1250P)	2,125.73	80.14
		For Preset Positioning, Add	*165.00*	
28 21 31 00-0582	EA	100 LB Load, 120 Volt DC, Outdoor Pan And Tilt Drive (Pelco PT1250DC)	2,423.74	80.14
		For Preset Positioning, Add	*165.00*	
28 21 31 00-0583	EA	100 LB Load, 120 Volt DC, 360 Degree Outdoor Pan And Tilt Drive (Pelco PT1280SL)	2,798.59	80.14
		For Preset Positioning, Add	*165.00*	
28 21 31 00-0584	EA	100 LB Load, 120 Volt DC, Explosion Proof Outdoor Pan And Tilt Drive (Pelco PT1260EX)	3,595.68	80.14
		For Preset Positioning, Add	*165.00*	
28 21 31 00-0585		**Scanners** *(28 21 31 00-0002)*		
28 21 31 00-0586	EA	35 LB Load, 24 Volt AC, Indoor/Outdoor Scanner (Pelco PS20-24)	925.78	80.14
		For Wall Mount, Add	*39.05*	
		For Pressure Sensor Alarm, Add	*51.15*	
28 21 31 00-0587	EA	35 LB Load, 120 Volt AC, Indoor/Outdoor Scanner (Pelco PS20)	971.02	80.14
		For Wall Mount, Add	*39.05*	
		For Pressure Sensor Alarm, Add	*51.15*	
28 21 31 00-0588		**Camera Monitors** *(28 21 31 00-0001)*		
28 21 31 00-0589		**Camera Monitors** *(28 21 31 00-0588)*		
28 21 31 00-0590		**Monochrome Camera Monitors** *(28 21 31 00-0589)*		
28 21 31 00-0591	EA	9" Monochrome Camera Monitor (Pelco PMM9A)	180.71	16.03
28 21 31 00-0592	EA	12" Monochrome Camera Monitor (Pelco PMM12A)	205.84	16.03
28 21 31 00-0593	EA	15" Monochrome Camera Monitor (Pelco PMM15A)	312.12	16.03
28 21 31 00-0594	EA	20" Monochrome Camera Monitor (Pelco PMM20A)	498.11	16.03
28 21 31 00-0595		**Color Camera Monitors** *(28 21 31 00-0589)*		
28 21 31 00-0596	EA	9", High Resolution Color, Camera Monitor (Pelco PMC9A)	561.30	16.03
28 21 31 00-0597	EA	15", High Resolution Color, Camera Monitor (Pelco PMCS15A)	456.46	16.03
28 21 31 00-0598	EA	17", High Resolution Color, Camera Monitor (Pelco PMCS17A)	660.40	16.03
28 21 31 00-0599	EA	19", High Resolution Color, Camera Monitor (Pelco PMCS19A)	875.83	16.03
28 21 31 00-0600		**LCD Camera Monitors** *(28 21 31 00-0588)*		
28 21 31 00-0601		**VGA Signal, Color LCD Camera Monitors (Pelco 200 Series)** *(28 21 31 00-0600)*		
		Note: Displays VGA computer signals.		
28 21 31 00-0602	EA	17", VGA Signal, High Resolution Color, LCD Camera Monitor (Pelco PMCL217)	633.83	16.03
28 21 31 00-0603	EA	19", VGA Signal, High Resolution Color, LCD Camera Monitor (Pelco PMCL219)	823.41	16.03
28 21 31 00-0604		**Multimode, Color LCD Camera Monitors (Pelco 300 Series)** *(28 21 31 00-0600)*		
		Note: Displays VGA computer signals and/or composite video signals.		
28 21 31 00-0605	EA	15", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL315)	720.00	16.03
28 21 31 00-0606	EA	17", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL317)	860.75	16.03
28 21 31 00-0607	EA	19", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL319)	1,057.51	16.03
28 21 31 00-0608		**Multimode With PIP, Color LCD Camera Monitors (Pelco 400 Series)** *(28 21 31 00-0600)*		
		Note: Displays VGA computer signals and/or composite video signals. Includes picture in picture option.		
28 21 31 00-0609	EA	15", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL415)	922.50	16.03
28 21 31 00-0610	EA	17", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL417)	1,069.00	16.03
28 21 31 00-0611	EA	19", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL419)	1,339.72	16.03

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28 21 31 00-0612		Camera Monitor Mounting Accessories *(28 21 31 00-0588)*		
28 21 31 00-0613		Camera Monitor Mounts *(28 21 31 00-0612)*		
28 21 31 00-0614	EA	Up To 14", Camera Monitor Mount (Pelco)	222.27	21.37
28 21 31 00-0615	EA	>14" To 17", Camera Monitor Mount (Pelco)	257.46	21.37
28 21 31 00-0616	EA	>17" To 21", Camera Monitor Mount (Pelco)	300.55	21.37
28 21 31 00-0617		Camera Monitor Rack Mount Kits *(28 21 31 00-0612)*		
28 21 31 00-0618	EA	Camera Monitor Rack Mount Kit (Pelco PMCL-RM)	138.26	21.37
28 21 31 00-0619		Video Transmission Equipment *(28 21 31 00-0001)*		
28 21 31 00-0620		UTP Cable, Video Transmission Equipment *(28 21 31 00-0619)*		
28 21 31 00-0621		UTP Cable, Active Video Receivers *(28 21 31 00-0620)*		
28 21 31 00-0622	EA	Single Channel, UTP Cable, Active Video Receiver (Pelco TW3001AR)	279.63	26.72
28 21 31 00-0623	EA	Four Channel, UTP Cable, Active Video Receiver (Pelco TW3004AR)	935.26	26.72
28 21 31 00-0624	EA	Eight Channel, 4 Outputs, UTP Cable, Active Video Receiver (Pelco TW3008AR-4-US)	1,829.29	26.72
28 21 31 00-0625	EA	Sixteen Channel, UTP Cable, Active Video Receiver (Pelco TW3016AR1-US)	2,997.64	26.72
28 21 31 00-0626	EA	Sixteen Channel, 2 Outputs, UTP Cable, Active Video Receiver (Pelco TW3016AR-2-US)	3,498.16	26.72
28 21 31 00-0627		UTP Cable, Passive Video Transceivers *(28 21 31 00-0620)*		
28 21 31 00-0628	EA	Single Channel, UTP Cable, Passive Video Transceiver (Pelco TW3001P)	90.05	26.72
28 21 31 00-0629	EA	Four Channel, UTP Cable, Passive Video Transceiver (Pelco TW3004P)	279.63	26.72
28 21 31 00-0630	EA	Eight Channel, UTP Cable, Passive Video Transceiver (Pelco TW3008P)	506.55	26.72
28 21 31 00-0631	EA	Sixteen Channel, UTP Cable, Passive Video Transceiver (Pelco TW3016P)	953.21	26.72
28 21 31 00-0632	EA	Thirty Two Channel, UTP Cable, Passive Video Transceiver (Pelco TW3032P)	1,853.71	26.72
28 21 31 00-0633		UTP Cable, Active Video Transmitters *(28 21 31 00-0620)*		
28 21 31 00-0634	EA	Single Channel, UTP Cable, Active Video Transmitter (Pelco TW3001AT)	291.84	26.72
28 21 31 00-0635		Fiber Optics, Video Transmission Equipment *(28 21 31 00-0619)*		
28 21 31 00-0636		Data Only, Fiber Optics Transmission Equipment *(28 21 31 00-0635)*		
28 21 31 00-0637		Bidirectional Data, Fiber Optics Transmitters *(28 21 31 00-0636)*		
28 21 31 00-0638	EA	Single-Channel, Single Mode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8101AS)	1,649.34	53.43
28 21 31 00-0639	EA	Single-Channel, Multimode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8101AM)	688.52	53.43
28 21 31 00-0640	EA	Four-Channel, Single Mode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8104S)	1,212.02	53.43
28 21 31 00-0641	EA	Four-Channel, Multimode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8104M)	843.63	53.43
28 21 31 00-0642		Bidirectional Data, Fiber Optics Receivers *(28 21 31 00-0636)*		
28 21 31 00-0643	EA	Single-Channel, Single Mode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8101AS)	1,649.34	53.43
28 21 31 00-0644	EA	Single-Channel, Multimode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8101AM)	688.52	53.43
28 21 31 00-0645	EA	Four-Channel, Single Mode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8104S)	1,212.02	53.43
28 21 31 00-0646	EA	Four-Channel, Multimode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8104M)	843.63	53.43
28 21 31 00-0647		Video Only, Fiber Optics Transmission Equipment *(28 21 31 00-0635)*		
28 21 31 00-0648		Digitally Encoded Video, Fiber Optics Transmitters *(28 21 31 00-0647)*		
28 21 31 00-0649	EA	Single-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8301AS)	745.97	53.43
28 21 31 00-0650	EA	Single-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8301AM)	339.52	53.43
28 21 31 00-0651	EA	Four-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8304S)	2,023.47	53.43
28 21 31 00-0652	EA	Four-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8304M)	1,226.38	53.43
28 21 31 00-0653	EA	Eight-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8308S)	3,298.81	53.43
28 21 31 00-0654	EA	Eight-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8308M)	2,747.31	53.43
28 21 31 00-0655	EA	Sixteen-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8316S)	8,153.17	53.43
28 21 31 00-0656	EA	Sixteen-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8316M)	7,259.14	53.43
28 21 31 00-0657		Digitally Encoded Video, Fiber Optics Receivers *(28 21 31 00-0647)*		
28 21 31 00-0658	EA	Single-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8301AS)	745.97	53.43
28 21 31 00-0659	EA	Single-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8301AM)	339.52	53.43
28 21 31 00-0660	EA	Two-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8302AS)	1,255.82	53.43
28 21 31 00-0661	EA	Two-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8302AM)	524.08	53.43
28 21 31 00-0662	EA	Four-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8304S)	2,023.47	53.43
28 21 31 00-0663	EA	Four-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8304M)	1,226.38	53.43
28 21 31 00-0664	EA	Eight-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8308S)	3,298.81	53.43
28 21 31 00-0665	EA	Eight-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8308M)	2,747.31	53.43
28 21 31 00-0666	EA	Sixteen-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8316S)	8,153.17	53.43
28 21 31 00-0667	EA	Sixteen-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8316M)	7,259.14	53.43

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28 21 31 00-0668		Video And Data, Fiber Optics Transmission Equipment *(28 21 31 00-0635)*		
28 21 31 00-0669		Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitters *(28 21 31 00-0668)*		
28 21 31 00-0670	EA	Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85011AS)	1,268.03	53.43
28 21 31 00-0671	EA	Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85011AM)	766.08	53.43
28 21 31 00-0672	EA	Four-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85041S)	2,918.94	53.43
28 21 31 00-0673	EA	Four-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85041M)	2,530.45	53.43
28 21 31 00-0674	EA	Eight-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85081S)	4,709.16	53.43
28 21 31 00-0675	EA	Eight-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85081M)	3,420.89	53.43
28 21 31 00-0676		Digitally Encoded Video With Bidirectional Data, Fiber Optics Receivers *(28 21 31 00-0668)*		
28 21 31 00-0677	EA	Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85011AS)	1,268.03	53.43
28 21 31 00-0678	EA	Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85011AM)	766.08	53.43
28 21 31 00-0679	EA	Four-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85041S)	2,918.94	53.43
28 21 31 00-0680	EA	Four-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85041M)	2,530.45	53.43
28 21 31 00-0681	EA	Eight-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85081S)	4,709.16	53.43
28 21 31 00-0682	EA	Eight-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85081M)	3,420.89	53.43
28 21 31 00-0683		Video, Audio And Data, Fiber Optics Transmission Equipment *(28 21 31 00-0635)*		
28 21 31 00-0684		Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitters *(28 21 31 00-0683)*		
28 21 31 00-0685	EA	Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitter (Pelco FT86011S)	1,626.36	53.43
28 21 31 00-0686	EA	Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitter (Pelco FT86011M)	1,298.91	53.43
28 21 31 00-0687		Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receivers *(28 21 31 00-0683)*		
28 21 31 00-0688	EA	Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receiver (Pelco FR86011S)	1,626.36	53.43
28 21 31 00-0689	EA	Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receiver (Pelco FR86011M)	1,298.91	53.43
28 21 31 00-0690		Video Amplifiers *(28 21 31 00-0619)*		
28 21 31 00-0691		Video Distribution Amplifiers *(28 21 31 00-0690)*		
28 21 31 00-0692	EA	1 Input, 4 Outputs, Video Distribution Amplifier (Pelco DA104DT)	204.09	13.36
28 21 31 00-0693	EA	16 Channel, Master, Video Distribution Amplifier (Pelco CM9760-MDA)	1,614.44	13.36
		Note: Inserts time-date and title on up to 16 video inputs.		
28 21 31 00-0694		Video Equalizing Amplifiers *(28 21 31 00-0690)*		
28 21 31 00-0695	EA	Video Equalizing Amplifier (Pelco EA2010)	221.33	13.36
28 21 31 00-0696	EA	Half-Duplex, Video Equalizing Amplifier (Pelco EA2000)	344.12	13.36
28 21 31 00-0697		Network Video Equipment *(28 21 31 00-0001)*		
28 21 31 00-0698		Video Encoders/Decoders *(28 21 31 00-0697)*		
28 21 31 00-0699	EA	MPEG4 IP Video Receiver (Pelco NET300R)	822.09	26.72
28 21 31 00-0700	EA	MPEG4 IP Video Transmitter (Pelco NET300T)	822.09	26.72
28 21 31 00-0701	EA	MPEG4 IP Video Receiver With Audio (Pelco NET350R)	942.73	26.72
28 21 31 00-0702	EA	MPEG4 IP Video Transmitter With Audio And Local Storage (Pelco NET350T)	942.73	26.72
28 21 31 00-0703		Network Video Recorders *(28 21 31 00-0697)*		
28 21 31 00-0704	EA	16 Device Or 100MBPS, Network Video Recorder (Pelco NVR316)	5,080.42	53.43
28 21 31 00-0705	EA	32 Device Or 100MBPS, Network Video Recorder (Pelco NVR332)	5,908.39	53.43
28 21 31 00-0706	EA	64 Device Or 100MBPS, Network Video Recorder (Pelco NVR364)	7,565.76	53.43
28 21 31 00-0707	EA	64 Device Or 100MBPS, PelcoNet Network Video Recorder (Pelco NVR300)	5,017.95	53.43

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0708		**Network Video Recorder Software** *(28 21 31 00-0697)*		
28 21 31 00-0709	EA	10 User, License Pack (Pelco VMX300-LIC-10)	499.80	
28 21 31 00-0710	EA	20 User, License Pack (Pelco VMX300-LIC-20)	901.22	
28 21 31 00-0711	EA	50 User, License Pack (Pelco VMX300-LIC-50)	2,001.34	
28 21 31 00-0712	EA	100 User, License Pack (Pelco VMX300-LIC-100)	3,500.74	
28 21 31 00-0713	EA	10 User, Enterprise License Pack (Pelco VMX300-E-LIC10)	834.43	
28 21 31 00-0714	EA	20 User, Enterprise License Pack (Pelco VMX300-E-LIC20)	1,500.83	
28 21 31 00-0715	EA	50 User, Enterprise License Pack (Pelco VMX300-E-LIC50)	3,335.57	
28 21 31 00-0716	EA	100 User, Enterprise License Pack (Pelco VMX300-E-LIC100)	5,836.00	
28 21 31 00-0717	EA	200 User, Enterprise License Pack (Pelco VMX300-E-LIC200)	10,003.85	
28 21 31 00-0718	EA	500 User, Enterprise License Pack (Pelco VMX300-E-LIC500)	20,840.70	
28 21 31 00-0719	EA	0 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-0)	4,524.14	
28 21 31 00-0720	EA	1 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-1)	4,802.05	
28 21 31 00-0721	EA	4 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-4)	7,581.81	
28 21 31 00-0722	EA	0 Analog Inputs, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-0)	5,024.66	
28 21 31 00-0723	EA	1 Analog Input, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-1)	5,302.56	
28 21 31 00-0724	EA	4 Analog Inputs, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-4)	8,080.89	
28 21 31 00-0725	EA	0 Analog Inputs, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-0)	4,858.06	
28 21 31 00-0726	EA	1 Analog Input, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-1)	5,136.68	
28 21 31 00-0727	EA	4 Analog Inputs, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-4)	7,915.73	
28 21 31 00-0728	EA	0 Analog Inputs, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-0)	5,691.05	
28 21 31 00-0729	EA	1 Analog Input, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-1)	5,968.96	
28 21 31 00-0730	EA	4 Analog Inputs, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-4)	8,748.72	
28 21 31 00-0731		**Video Recording Equipment** *(28 21 31 00-0001)*		
28 21 31 00-0732		**Digital Video Recorders** *(28 21 31 00-0731)*		
28 21 31 00-0733	EA	8 Channel, 1TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-1000A)	7,942.05	53.43
28 21 31 00-0734	EA	8 Channel, 2 TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-2000A)	10,881.95	53.43
28 21 31 00-0735	EA	8 Channel, 3 TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-3000A)	13,822.57	53.43
28 21 31 00-0736	EA	16 Channel, 1 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-1000A)	9,557.06	53.43
28 21 31 00-0737	EA	16 Channel, 2 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-2000A)	12,496.96	53.43
28 21 31 00-0738	EA	16 Channel, 3 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-3000A)	15,437.58	53.43
28 21 31 00-0739	EA	24 Channel, 1 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-1000A)	10,445.35	53.43
28 21 31 00-0740	EA	24 Channel, 2 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-2000A)	13,385.25	53.43
28 21 31 00-0741	EA	24 Channel, 3 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-3000A)	16,325.87	53.43
28 21 31 00-0742	EA	32 Channel, 1 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-1000A)	12,060.35	53.43
28 21 31 00-0743	EA	32 Channel, 2 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-2000A)	15,000.25	53.43
28 21 31 00-0744	EA	32 Channel, 3 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-3000A)	17,940.87	53.43
28 21 31 00-0745	EA	16 Channel, 30 IPS, Digital Video Recorder (Pelco DX9116F-1500)	8,764.49	53.43
28 21 31 00-0746		**Digital Video Recorder Accessories** *(28 21 31 00-0731)*		
28 21 31 00-0747	EA	16 Channel, Multiplexed Analog Output Display Card (Pelco DX8000-MUX16)	796.24	26.72
28 21 31 00-0748		**Matrix Systems And Controls** *(28 21 31 00-0001)*		
28 21 31 00-0749		**Video Multiplexers** *(28 21 31 00-0748)*		
28 21 31 00-0750		**Monochrome Duplex, Video Multiplexers** *(28 21 31 00-0749)*		
28 21 31 00-0751	EA	9 Channel, Monochrome Duplex, Video Multiplexer (Pelco MX4009MD)	1,481.30	53.43
28 21 31 00-0752	EA	16 Channel, Monochrome Duplex, Video Multiplexer (Pelco MX4016MD)	1,401.59	53.43
28 21 31 00-0753		**Color Duplex, Video Multiplexers** *(28 21 31 00-0749)*		
28 21 31 00-0754	EA	4 Channel, Color Duplex, Video Multiplexer (Pelco MX4004CD)	1,009.51	53.43
28 21 31 00-0755	EA	9 Channel, Color Duplex, Video Multiplexer (Pelco MX4009CD)	1,900.67	53.43
28 21 31 00-0756	EA	16 Channel, Color Duplex, Video Multiplexer (Pelco MX4016CD)	2,057.94	53.43
28 21 31 00-0757		**Color Simplex, Video Multiplexers** *(28 21 31 00-0749)*		
28 21 31 00-0758	EA	9 Channel, Monochrome Simplex, Video Multiplexer (Pelco MX4009CS)	1,601.94	53.43
28 21 31 00-0759	EA	16 Channel, Monochrome Simplex, Video Multiplexer (Pelco MX4016CS)	1,866.20	53.43
28 21 31 00-0760		**Video Multiplexer Accessories** *(28 21 31 00-0749)*		
28 21 31 00-0761	EA	Pushbutton/Joystick Desktop Controls For PTZ, Fixed/Variable-Speed, Multiplexer Controller (Pelco KBD4000)	904.26	36.49

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0762	EA	Pushbutton Desktop Controls For PTZ, Fixed/Variable-Speed, Multiplexer Controller (Pelco KBD4002)	546.65	36.49
28 21 31 00-0763	EA	Video Multiplexer Server (Pelco MX4000SVR)	1,481.30	53.43
28 21 31 00-0764		**Quad Video Processor** *(28 21 31 00-0748)*		
28 21 31 00-0765	EA	Monochrome, Quad Video Processor (Pelco QD104M)	463.47	26.72
28 21 31 00-0766	EA	Color, Quad Video Processor (Pelco QD104C)	750.71	26.72
28 21 31 00-0767		**Switcher** *(28 21 31 00-0748)*		
28 21 31 00-0768		**Terminating Manual Switchers** *(28 21 31 00-0767)*		
28 21 31 00-0769		**Terminating Manual Switchers** *(28 21 31 00-0768)*		
28 21 31 00-0770	EA	4 Inputs, Terminating Manual Switcher (Pelco MS504DT)	166.98	21.37
28 21 31 00-0771	EA	8 Inputs, Terminating Manual Switcher (Pelco MS508DT)	222.99	21.37
28 21 31 00-0772	EA	12 Inputs, Terminating Manual Switcher (Pelco MS512DT)	268.95	21.37
28 21 31 00-0773	EA	18 Inputs, Terminating Manual Switcher (Pelco MS518DT)	433.40	21.37
28 21 31 00-0774		**Audio Follow, Terminating Manual Switchers** *(28 21 31 00-0768)*		
28 21 31 00-0775	EA	4 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS504AF)	212.94	21.37
28 21 31 00-0776	EA	8 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS508AF)	367.33	21.37
28 21 31 00-0777	EA	18 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS518AF)	633.75	21.37
28 21 31 00-0778		**Balanced Audio Follow, Terminating Manual Switchers** *(28 21 31 00-0768)*		
28 21 31 00-0779	EA	4 Inputs, Balanced Audio Follow, Terminating Manual Switcher (Pelco MS504BAF)	281.16	21.37
28 21 31 00-0780	EA	8 Inputs, Balanced Audio Follow, Terminating Manual Switcher (Pelco MS508BAF)	506.64	21.37
28 21 31 00-0781		**Looping Manual Switchers** *(28 21 31 00-0767)*		
28 21 31 00-0782		**Looping Manual Switchers** *(28 21 31 00-0781)*		
28 21 31 00-0783	EA	4 Inputs, Looping Manual Switcher (Pelco MS504LDT)	185.65	21.37
28 21 31 00-0784	EA	8 Inputs, Looping Manual Switcher (Pelco MS508LDT)	251.00	21.37
28 21 31 00-0785	EA	12 Inputs, Looping Manual Switcher (Pelco MS512LDT)	317.06	21.37
28 21 31 00-0786	EA	18 Inputs, Looping Manual Switcher (Pelco MS518LDT)	515.98	21.37
28 21 31 00-0787		**Audio Follow, Looping Manual Switchers** *(28 21 31 00-0781)*		
28 21 31 00-0788	EA	4 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS504AFL)	228.74	21.37
28 21 31 00-0789	EA	8 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS508AFL)	391.75	21.37
28 21 31 00-0790	EA	12 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS512AFL)	533.93	21.37
28 21 31 00-0791		**Balanced Audio Follow, Looping Manual Switchers** *(28 21 31 00-0781)*		
28 21 31 00-0792	EA	4 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS504BAFL)	300.55	21.37
28 21 31 00-0793	EA	8 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS508BAFL)	536.08	21.37
28 21 31 00-0794	EA	12 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS512BAFL)	671.81	21.37
28 21 31 00-0795		**Sequential Switchers** *(28 21 31 00-0767)*		
28 21 31 00-0796		**Single Output, Sequential Switchers** *(28 21 31 00-0795)*		
28 21 31 00-0797	EA	4 Inputs, Single Output, Sequential Desktop Switcher (Pelco VA6104)	317.78	21.37
28 21 31 00-0798	EA	8 Inputs, Single Output, Sequential Desktop Switcher (Pelco VA6108)	468.58	21.37
28 21 31 00-0799		**Dual Outputs, Sequential Switchers** *(28 21 31 00-0795)*		
28 21 31 00-0800	EA	4 Inputs, Dual Outputs, Sequential Desktop Switcher (Pelco VA6204)	394.62	21.37
28 21 31 00-0801	EA	8 Inputs, Dual Outputs, Sequential Desktop Switcher (Pelco VA6208)	542.55	21.37
28 21 31 00-0802		**Controls** *(28 21 31 00-0748)*		
28 21 31 00-0803		**Direct/Multi-Cable Controls** *(28 21 31 00-0802)*		
28 21 31 00-0804	EA	Scanner Control Module (Pelco MPS524DT)	290.69	53.43
28 21 31 00-0805	EA	120 Volt AC Pan/Tilt Control Module (Pelco MPT115DT)	308.65	53.43
28 21 31 00-0806	EA	24 Volt AC Pan/Tilt Control Module (Pelco MPT24DT)	339.52	53.43
28 21 31 00-0807	EA	Motorized Zoom Lens Control Module (Pelco MLZ6DT)	353.89	53.43
28 21 31 00-0808	EA	120 Volt AC Pan/Tilt, Scanner And Lens Control Module (Pelco MPTAZ115DT)	543.46	53.43
28 21 31 00-0809	EA	24 Volt AC Pan/Tilt, Scanner And Lens Control Module (Pelco MPTAZ24DT)	595.89	53.43
28 21 31 00-0810		**Coaxitron Controls** *(28 21 31 00-0802)*		
28 21 31 00-0811	EA	Desktop Keyboard, Fixed Speed Coaxitron Controller And Transmitter (Pelco KBD9000)	413.08	36.49
28 21 31 00-0812	EA	8 Position Joystick Pan/Tilt Controls, Switch Camera Lens Controls, Desktop Coaxitron Controller And Transmitter (Pelco MPT9000)	751.31	36.49

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0813	EA	Integral Switcher, 8 Position Joystick Pan/Tilt Controls, Switch Camera Lens Controls, Desktop Coaxitron Controller And Transmitter (Pelco MPT9008)	848.25	36.49
28 21 31 00-0814		**Digital Controls** *(28 21 31 00-0802)*		
28 21 31 00-0815	EA	Pushbutton Desktop Controls For Pan/Tilt/Zoom, Fixed/Variable-Speed, Digital Controller (Pelco KBD200A)	543.06	36.49
28 21 31 00-0816	EA	Pushbutton/Joystick Desktop Controls For Pan/Tilt/Zoom, Fixed/Variable-Speed, Digital Controller (Pelco KBD300A)	897.08	36.49
28 21 31 00-0817		**Lock Boxes** *(28 21 31 00-0748)*		
28 21 31 00-0818	EA	VCR Lock Box (Pelco LB1000)	330.76	40.07
		For Wall Mount, Add	*165.00*	
28 21 31 00-0819	EA	Computer Disk Drive Lock Box (Pelco LB2000)	337.94	40.07
28 21 31 00-0820	EA	VCR And Multiplexer Lock Box (Pelco LB3000)	603.63	40.07
		Note: Includes storage for 32 VCR tapes.		
28 21 31 00-0821		**Test And Certification Of Surveillance Camera System** *(28 21 31)*		
28 21 31 00-0822	DAY	Test And Certification Of Surveillance Camera System To Tie Into Existing Systems	847.14	
28 21 31 00-0823	HR	Test And Certification Of Surveillance Camera System	264.73	
28 21 31 00-0824		**Programming Of Surveillance Camera System** *(28 21 31)*		
28 21 31 00-0825	HR	Programming Of Surveillance Camera System	317.68	

28 40 Life Safety *(28)*

Note: Includes testing of new devices and certification.

28 42 Gas Detection and Alarm *(28 40)*

28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems *(28 42)*

28 42 11 00-0001 Monitoring System For Underground Tanks *(28 42 11)*

28 42 11 00-0002 Continuous Leak Detection System *(28 42 11 00-0001)*

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 11 00-0003	EA	Single Channel Underground Tank Monitoring System	4,784.96	437.31
28 42 11 00-0004	EA	2 Channel Underground Tank Monitoring System	6,450.22	583.44
28 42 11 00-0005	EA	3 Channel Underground Tank Monitoring System	8,958.66	625.03
28 42 11 00-0006	EA	4 Channel Underground Tank Monitoring System	9,780.73	874.62
28 42 11 00-0007	EA	Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System	6,420.45	74.67
28 42 11 00-0008	EA	Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System	5,789.39	66.67
28 42 11 00-0009	EA	Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System	7,601.98	74.67
28 42 11 00-0010	EA	Tank Leak Detection Probe	2,347.21	16.00
28 42 11 00-0011	EA	Secondary Containment Collar Probe	290.26	6.40
28 42 11 00-0012	EA	Interstitial Leak Detection Probe	533.36	13.33
28 42 11 00-0013	EA	Liquid Phase Detection	1,756.80	40.00
28 42 11 00-0014	EA	Hydrocarbon Vapor, Fixed	1,624.18	40.00
28 42 11 00-0015	EA	Hydrocarbon Vapor, Float Mounted	1,894.48	45.33
28 42 11 00-0016	EA	Liquid And Vapor Hydrocarbon	2,159.72	45.33

28 42 15 Gas Detection Sensors *(28 42)*

28 42 15 00-0001 Hydrogen Gas Detection *(28 42 15)*

28 42 15 00-0002	EA	Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR)	1,304.77	40.07
28 42 15 00-0003	EA	Hydrogen Gas Detector Junction Box (SBS HGDI-JB)	74.61	40.07
28 42 15 00-0004	EA	Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM)	346.96	40.07

28 46 Fire Detection and Alarm *(28 40)*

28 46 11 Fire Sensors and Detectors *(28 46)*

28 46 11 11 Linear Heat Detection Sensors *(28 46 11)*

28 46 11 11-0001 Protectowire Fire Alarm *(28 46 11 11)*

28 46 11 11-0002 Linear Heat Detector Cable *(28 46 11 11-0001)*

28 46 11 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC)	4.00	
28 46 11 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M	4.31	
28 46 11 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR)	4.31	
28 46 11 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M	4.62	
28 46 11 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT)	5.31	
28 46 11 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M)	5.62	
28 46 11 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL)	55.89	
28 46 11 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC)	20.38	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 11 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W)	7.50	
28 46 11 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2)	7.50	
28 46 11 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO)	8.59	
28 46 11 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2)	13.35	
28 46 11 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P)	13.76	
28 46 11 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A)	1.08	
28 46 11 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B)	1.46	
28 46 11 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C)	6.34	

28 46 20 Fire Alarm *(28 46)*

28 46 21 17 Proprietary Systems *(28 46 20)*

Note: Includes programming of equipment, testing and certification of new devices.

28 46 21 17-0001 Edwards Fire Alarm *(28 46 21 17)*

28 46 21 17-0002 EST3 Life Safety And Security Control *(28 46 21 17-0001)*

28 46 21 17-0003 EST3 Network *(28 46 21 17-0002)*

28 46 21 17-0004 Remote Annunciators *(28 46 21 17-0003)*

28 46 21 17-0005	EA	Remote LCD Command Module Annunciator (EST3 3-LCDANN) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,078.26	80.14
28 46 21 17-0006	EA	Six Position Base Annunciator (EST3 3-6ANN) Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.	886.23	80.14
28 46 21 17-0007	EA	Ten Position Base Annunciator (EST3 3-10ANN) Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.	1,110.15	80.14
28 46 21 17-0008	EA	Annunciator CPU (EST3 3-ANNCPU3) Note: One Required per graphic annunciator.	722.31	80.14
28 46 21 17-0009	EA	Annunciator Support Module (EST3 3-ANNSM) Note: Takes one space in Annunciator box. Supports one Control/Display module.	138.95	26.72
28 46 21 17-0010	EA	Liquid Crystal Display Module (EST3 3-LCD) Note: Mounts over 3-CPU(1).	478.87	80.14
28 46 21 17-0011	EA	Liquid Crystal Display Module (EST3 3-LCDXL) Note: Mounts over 3-ANNCPU plus two spaces.	673.62	80.14
28 46 21 17-0012	EA	LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA) Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.	535.00	80.14
28 46 21 17-0013	EA	Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA) Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.	603.33	53.43
28 46 21 17-0014	EA	Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX) Note: Mounts up to three 3-EVDVRA modules.	100.83	26.72
28 46 21 17-0015	EA	Central Processor Unit Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,269.48	80.14
28 46 21 17-0016	EA	120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,099.08	26.72

28 46 21 17-0017 Remote Annunciators Cabinets *(28 46 21 17-0003)*

28 46 21 17-0018	EA	Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCM/B)	107.65	26.72
28 46 21 17-0019	EA	Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCM/B-S)	96.97	21.37
28 46 21 17-0020	EA	Six Position LED/LCD Flush Wallbox (EST3 6ANN/B)	119.68	26.72
28 46 21 17-0021	EA	Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S)	109.00	21.37
28 46 21 17-0022	EA	Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B)	130.97	26.72
28 46 21 17-0023	EA	Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S)	120.29	21.37

28 46 21 17-0024 Audio And Telephone Masters *(28 46 21 17-0003)*

28 46 21 17-0025	EA	Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT)	3,435.95	106.86
28 46 21 17-0026	EA	Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4)	1,937.28	106.86
28 46 21 17-0027	EA	Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU)	1,898.05	106.86
28 46 21 17-0028	EA	Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU)	1,834.24	106.86
28 46 21 17-0029	EA	Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100)	2,087.10	106.86
28 46 21 17-0030	EA	Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95)	1,878.97	53.43

28 46 21 17-0031 Battery Distribution Unit *(28 46 21 17-0003)*

28 46 21 17-0032	EA	Battery Distribution Unit (EST3 3-BTSEN)	427.30	320.44

28 46 21 17-0033 Remote Booster Power Supply *(28 46 21 17-0003)*

28 46 21 17-0034	EA	6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A)	628.69	80.14
28 46 21 17-0035	EA	10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10)	712.03	80.14
28 46 21 17-0036	EA	10 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220)	773.44	80.14
28 46 21 17-0037	EA	Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP)	109.67	26.72

28 46 21 17-0038 Batteries And Battery Cabinets *(28 46 21 17-0003)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0039	EA	1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 (1.2 Ampere Hours))	86.78	26.72
28 46 21 17-0040	EA	4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A (4.5 Ampere Hours))	104.88	26.72
28 46 21 17-0041	EA	24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A (26 Ampere Hours))	229.80	26.72
28 46 21 17-0042	EA	6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 (7.2 Ampere Hours))	112.13	26.72
28 46 21 17-0043	EA	40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A (40 Ampere Hours))	287.79	26.72
28 46 21 17-0044	EA	10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A (11 Ampere Hours))	167.75	26.72
28 46 21 17-0045	EA	50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A (50 Ampere Hours))	570.31	26.72
28 46 21 17-0046	EA	17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A (18 Ampere Hours))	171.48	26.72
28 46 21 17-0047	EA	65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A (65 Amp Hours))	683.90	26.72
28 46 21 17-0048	EA	8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A (8 Amp Hours))	101.36	26.72
28 46 21 17-0049	EA	10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A (12 Amp Hours))	92.31	26.72
28 46 21 17-0050	EA	14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1) Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.	308.85	53.43
28 46 21 17-0051	EA	22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2) Note: Holds up to two 12V17A batteries.	260.09	53.43
28 46 21 17-0052	EA	Remote Closet Enclosure (EST3 3-RCC7R)	850.74	106.86
28 46 21 17-0053	EA	Remote Closet Enclosure (EST3 3-RCC14R)	1,042.72	106.86
28 46 21 17-0054	EA	Remote Closet Enclosure (EST3 3-RCC21R)	1,440.81	106.86

28 46 21 17-0055 Serial Printer *(28 46 21 17-0003)*

28 46 21 17-0056	EA	System Printer - Desk Top Style (EST3 PT-1S)	982.32	26.72

28 46 21 17-0057 Intelligent Analog Initiating Devices *(28 46 21 17-0002)*

28 46 21 17-0058 Detectors, Signature *(28 46 21 17-0057)*

28 46 21 17-0059	EA	Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS)	189.34	40.07
28 46 21 17-0060	EA	Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB)	210.42	40.07
28 46 21 17-0061	EA	Intelligent 3D Multisensor Detector For Photoelectric And Heat (EST3 SIGA-PHS)	183.06	40.07
28 46 21 17-0062	EA	Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS)	164.23	40.07
28 46 21 17-0063	EA	Intelligent Ionization Smoke Detector (EST3 SIGA-IS)	170.51	40.07
28 46 21 17-0064	EA	135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA-HRS)	143.22	40.07
28 46 21 17-0065	EA	135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA-HFS)	143.22	40.07
28 46 21 17-0066	EA	Passive Infrared Motion Detector (EST3 SIGA-MD)	216.03	40.07
28 46 21 17-0067	EA	Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS)	236.60	40.07
28 46 21 17-0068	EA	Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS)	202.67	40.07
28 46 21 17-0069	EA	Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS)	284.41	40.07
28 46 21 17-0070	EA	135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS)	172.17	40.07
28 46 21 17-0071	EA	135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS)	172.17	40.07
28 46 21 17-0072	EA	Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS)	230.14	40.07

28 46 21 17-0073 Detectors, Duct Housings and Accessories, Signature *(28 46 21 17-0057)*

28 46 21 17-0074	EA	Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD)	376.19	66.79
28 46 21 17-0075	EA	Superduct, Test Magnet Kit (EST3 SD-MAG)	18.77	
28 46 21 17-0076	EA	Superduct, 120" Air Sample Tube (EST3 SD-T120)	52.96	16.03
28 46 21 17-0077	EA	Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK)	100.15	21.37
28 46 21 17-0078	EA	Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS)	132.03	21.37
28 46 21 17-0079	EA	High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL)	63.81	21.37

28 46 21 17-0080 Detectors, Smoke, Beam *(28 46 21 17-0057)*

28 46 21 17-0081	EA	Fireray 2000 Beam Alignment Aid, For Quick Alignment Of Beam Detector Transmitter And Receiver Heads (EST3 0201-01-A)	123.77	
28 46 21 17-0082	EA	Fireray 2000 Beam Smoke Detector (By Fire Fighting Enterprises) (EST3 22310-18-01) Note: Includes controller and remote mount transmitter and receiver head.	1,445.61	40.07
28 46 21 17-0083	EA	Fireray 2000 Beam Detector Prism, Use To Reflect Beam When Mounting Transmitter And Receiver Heads On Same Wall (EST3 23901-00)	91.40	13.36
28 46 21 17-0084	EA	Reflector, For EC-50R/-100R Reflective Beam Detectors (EST3 23901-01)	107.53	13.36
28 46 21 17-0085	EA	160 - 330' Reflective Beam Detector (EST3 EC-100R)	1,480.52	40.07
28 46 21 17-0086	EA	15 - 160' Reflective Beam Detector (EST3 EC-50R)	1,265.07	40.07
28 46 21 17-0087	EA	Remote Test Station, For EC-50R/-100R Reflective Beam Detectors (EST3 EC-LLT)	296.09	13.36
28 46 21 17-0088	EA	160 - 330' Self Adjusting Reflective Beam Detector (EST3 EC-5000R)	1,559.95	40.07

28 46 21 17-0089 Modules, Signature *(28 46 21 17-0057)*

28 46 21 17-0090	EA	Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB)	173.11	26.72
28 46 21 17-0091	EA	Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1)	109.97	26.72
28 46 21 17-0092	EA	Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2)	149.40	26.72
28 46 21 17-0093	EA	Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2)	156.31	26.72
28 46 21 17-0094	EA	Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1)	164.28	26.72
28 46 21 17-0095	EA	Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2)	172.46	26.72
28 46 21 17-0096	EA	Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR) Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).	130.80	26.72
28 46 21 17-0097	EA	Control Relay UIO (Plug In) Module (EST3 SIGA-MCR)	137.52	26.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0098	EA	Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S)	179.49	26.72
28 46 21 17-0099	EA	Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO)	175.28	26.72
28 46 21 17-0100	EA	Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO)	169.00	26.72
28 46 21 17-0101	EA	Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM)	155.98	129.27
28 46 21 17-0102	EA	Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1) Note: Factory programmed for non-latching monitor operation.	117.50	26.72
28 46 21 17-0103	EA	Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S)	180.31	26.72

28 46 21 17-0104 Module Accessories, Signature *(28 46 21 17-0057)*

Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.

28 46 21 17-0105	EA	Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4)	47.81	13.36
28 46 21 17-0106	EA	Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6)	154.28	26.72
28 46 21 17-0107	EA	Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, -UM And -MAB Modules (EST3 235196P)	19.17	8.01
28 46 21 17-0108	EA	Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1-Gang Signature Modules (EST3 SIGA-MP1)	55.08	13.36
28 46 21 17-0109	EA	Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1-Gang Signature Modules (EST3 SIGA-MP2)	49.86	13.36
28 46 21 17-0110	EA	Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L)	51.92	13.36

28 46 21 17-0111 Single Action Pull Stations, Signature *(28 46 21 17-0057)*

28 46 21 17-0112	EA	One Stage Fire Alarm Station, English Markings (EST3 SIGA-270)	201.43	55.56
28 46 21 17-0113	EA	Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P)	232.92	55.56
28 46 21 17-0114	EA	GA Key - For Pre Signal Station (EST3 276-K2)	26.69	21.34
28 46 21 17-0115	EA	20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR)	32.75	27.40
28 46 21 17-0116	EA	Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB)	56.35	34.97

28 46 21 17-0117 Double Action Pull Stations, Signature *(28 46 21 17-0057)*

28 46 21 17-0118	EA	Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278)	195.39	55.56
28 46 21 17-0119	EA	12 Glass Rods For SIGA-278 Series (EST3 276-GLR)	33.20	5.34

28 46 21 17-0120 Detector Bases and Accessories, Signature *(28 46 21 17-0057)*

Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.

28 46 21 17-0121	EA	Audible (Sounder) Base (EST3 SIGA-AB4G)	94.41	13.36
28 46 21 17-0122	EA	Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB)	39.38	13.36
28 46 21 17-0123	EA	Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4)	116.26	13.36
28 46 21 17-0124	EA	Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG)	68.80	13.36
28 46 21 17-0125	EA	Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB)	79.30	13.36
28 46 21 17-0126	EA	Detector Mounting Plate (EST3 SIGA-DMP) Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.	121.29	13.36
28 46 21 17-0127	EA	Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED)	47.81	13.36
28 46 21 17-0128	EA	Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS)	19.26	8.01
28 46 21 17-0129	EA	Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4)	19.26	8.01
28 46 21 17-0130	EA	Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF)	47.62	8.01
28 46 21 17-0131	EA	Detector Base With Isolator (EST3 SIGA-IB)	78.23	13.36
28 46 21 17-0132	EA	Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4)	82.73	13.36
28 46 21 17-0133	EA	Detector Base With Form 'C' Relay (EST3 SIGA-RB)	65.41	13.36
28 46 21 17-0134	EA	Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4)	70.39	13.36
28 46 21 17-0135	EA	Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4)	39.37	13.36

28 46 21 17-0136 Controllers, Signature *(28 46 21 17-0057)*

28 46 21 17-0137	EA	Signature Dual Driver Controller (EST3 3-SDDC1)	2,468.11	80.14
28 46 21 17-0138	EA	Single Signature Loop Controller (EST3 3-SSDC1)	1,432.07	80.14
28 46 21 17-0139	EA	Signature Loop Controller (EST3 3-SDC1)	1,290.66	80.14
28 46 21 17-0140	EA	Analog Addressable Loop Controller (EST3 3-AADC1)	2,044.24	80.14

28 46 21 17-0141 Relays And Accessories *(28 46 21 17-0057)*

28 46 21 17-0142	EA	Multi Voltage Relay (EST3 MR101)	142.39	26.72
28 46 21 17-0143	EA	Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T)	45.15	13.36

28 46 21 17-0144 Notification Appliances *(28 46 21 17-0002)*

28 46 21 17-0145 Wall Strobes, Horns And Chimes *(28 46 21 17-0144)*

28 46 21 17-0146	EA	Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM)	125.03	40.07
28 46 21 17-0147	EA	Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM)	125.03	40.07

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0148	EA	Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM)	139.65	40.07
28 46 21 17-0149	EA	Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD)	108.56	40.07
28 46 21 17-0150	EA	Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD)	108.56	40.07
28 46 21 17-0151	EA	Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD)	108.56	40.07
28 46 21 17-0152	EA	Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD)	108.56	40.07
28 46 21 17-0153	EA	Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P)	94.72	40.07
28 46 21 17-0154	EA	Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P)	94.72	40.07
28 46 21 17-0155	EA	Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P)	94.72	40.07
28 46 21 17-0156	EA	Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM)	199.33	40.07
28 46 21 17-0157	EA	Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM)	199.33	40.07
28 46 21 17-0158	EA	Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C)	137.87	40.07
28 46 21 17-0159	EA	Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C)	137.87	40.07
28 46 21 17-0160	EA	Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575)	125.03	40.07
28 46 21 17-0161	EA	Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM)	125.03	40.07
28 46 21 17-0162	EA	Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM)	125.03	40.07
28 46 21 17-0163	EA	Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575)	125.03	40.07
28 46 21 17-0164	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM)	129.14	40.07
28 46 21 17-0165	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM)	129.14	40.07
28 46 21 17-0166	EA	Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH)	138.76	40.07
28 46 21 17-0167	EA	Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM)	129.14	40.07
28 46 21 17-0168	EA	Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH)	129.14	40.07
28 46 21 17-0169	EA	Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE)	85.72	40.07
28 46 21 17-0170	EA	Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE)	85.72	40.07

28 46 21 17-0171 Wall Speakers And Speaker Strobes *(28 46 21 17-0144)*

28 46 21 17-0172	EA	Multi-Wattage 25 VRMS Speaker (EST3 G4-S2)	107.32	40.07
28 46 21 17-0173	EA	Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM)	153.69	40.07
28 46 21 17-0174	EA	Multi-Wattage 70 VRMS Speaker (EST3 G4-S7)	107.32	40.07
28 46 21 17-0175	EA	Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM)	153.69	40.07
28 46 21 17-0176	EA	Surface Box, White, For Genesis Speaker (EST3 G4B)	54.05	21.37
28 46 21 17-0177	EA	Surface Box, Red, For Genesis Speaker (EST3 G4RB)	54.05	21.37

28 46 21 17-0178 Ceiling Speakers And Speaker Strobes *(28 46 21 17-0144)*

28 46 21 17-0179	EA	Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7)	124.13	40.07
28 46 21 17-0180	EA	Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM)	153.69	40.07
28 46 21 17-0181	EA	Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH)	163.05	40.07

28 46 21 17-0182 Harsh Environment Signals *(28 46 21 17-0144)*

28 46 21 17-0183	EA	Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T)	112.62	40.07
28 46 21 17-0184	EA	15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T)	149.53	40.07
28 46 21 17-0185	EA	110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T)	149.53	40.07
28 46 21 17-0186	EA	15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T)	138.56	40.07
28 46 21 17-0187	EA	15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T)	131.27	40.07
28 46 21 17-0188	EA	30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T)	138.56	40.07
28 46 21 17-0189	EA	60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T)	138.56	40.07
28 46 21 17-0190	EA	110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T)	138.56	40.07
28 46 21 17-0191	EA	15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T)	153.78	45.42
28 46 21 17-0192	EA	110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T)	153.78	45.42
28 46 21 17-0193	EA	15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T)	117.11	40.07
28 46 21 17-0194	EA	30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T)	146.09	40.07

28 46 21 17-0195 Fire Alarm Bells *(28 46 21 17-0144)*

28 46 21 17-0196	EA	10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW)	159.77	40.07
28 46 21 17-0197	EA	6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW)	132.21	40.07
28 46 21 17-0198	EA	10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW)	143.97	40.07

28 46 21 17-0199 Multiple Tone Signal *(28 46 21 17-0144)*

28 46 21 17-0200	EA	27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW)	907.27	867.20

28 46 21 17-0201 Multi-Purpose Loudspeaker *(28 46 21 17-0144)*

28 46 21 17-0202	EA	15 Watt Loudspeaker, Gray (EST3 HPSA15G2570)	203.74	40.07
28 46 21 17-0203	EA	15 Watt Loudspeaker, Red (EST3 HPSA15R2570)	203.74	40.07

28 46 21 17-0204 Bell/Strobe Plate *(28 46 21 17-0144)*

28 46 21 17-0205	EA	Bell/Strobe Plate - 15cd (EST3 403-5A-R)	103.67	21.37

28 46 21 17-0206 Mounting Accessories *(28 46 21 17-0144)*

28 46 21 17-0207	EA	Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11)	54.90	21.37
28 46 21 17-0208	EA	One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY)	54.90	21.37
28 46 21 17-0209	EA	Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16)	54.90	21.37

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0210	EA	Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21)	54.90	21.37
28 46 21 17-0211	EA	Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26)	54.90	21.37

28 46 21 17-0212 Firefighters' Telephones *(28 46 21 17-0144)*

28 46 21 17-0213	EA	Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4)	829.31	66.79
28 46 21 17-0214	EA	Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4)	481.45	66.79
28 46 21 17-0215	EA	Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F)	356.18	66.79
28 46 21 17-0216	EA	Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1)	268.84	66.79
28 46 21 17-0217	EA	Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4)	465.86	66.79
28 46 21 17-0218	EA	Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A)	300.01	66.79
28 46 21 17-0219	EA	Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4)	521.06	66.79
28 46 21 17-0220	EA	Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A)	310.40	66.79
28 46 21 17-0221	EA	Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4)	591.76	66.79
28 46 21 17-0222	EA	Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1)	71.90	21.37
28 46 21 17-0223	EA	Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4)	80.94	21.37
28 46 21 17-0224	EA	Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3)	100.65	
28 46 21 17-0225	EA	Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061)	100.65	
28 46 21 17-0226	EA	Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1)	161.96	26.72
28 46 21 17-0227	EA	Frontplate - Flush Mount, Red Finish, Non Break Glass Type With Two Keys (EST3 6831-2)	197.96	26.72
28 46 21 17-0228	EA	Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3)	143.96	26.72
28 46 21 17-0229	EA	Frontplate - Surface Mount, Red Finish, Non Break Glass Type, With Two Keys (EST3 6831-4)	138.67	26.72
28 46 21 17-0230	EA	Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1)	113.03	40.07
28 46 21 17-0231	EA	Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6)	848.05	53.43

28 46 21 17-0232 Mass Notification EC Appliances *(28 46 21 17-0144)*

28 46 21 17-0233	EA	G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA)	129.17	40.07
28 46 21 17-0234	EA	G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC)	125.44	40.07
28 46 21 17-0235	EA	G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA)	129.17	40.07
28 46 21 17-0236	EA	G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC)	125.44	40.07
28 46 21 17-0237	EA	G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT)	20.50	8.01

28 46 21 17-0238 Hazardous Location Devices *(28 46 21 17-0002)*

28 46 21 17-0239 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location *(28 46 21 17-0238)*

28 46 21 17-0240	EA	Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135)	116.71	40.07
28 46 21 17-0241	EA	Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194)	116.71	40.07
28 46 21 17-0242	EA	Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135)	120.65	40.07
28 46 21 17-0243	EA	Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194)	120.65	40.07
28 46 21 17-0244	EA	Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135)	157.07	40.07
28 46 21 17-0245	EA	Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194)	157.07	40.07
28 46 21 17-0246	EA	Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135)	120.65	40.07
28 46 21 17-0247	EA	Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194)	120.65	40.07

28 46 21 17-0248 Hazardous Locations Fire Alarm Station *(28 46 21 17-0238)*

28 46 21 17-0249	EA	Hazardous Location Fire Alarm Station (EST3 XAL53)	876.48	66.79
28 46 21 17-0250	EA	Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPDT (EST3 MPSR1-D45WX-GE)	836.11	66.79

28 46 21 17-0251 Hazardous Location Strobes *(28 46 21 17-0238)*

28 46 21 17-0252	EA	Explosion Proof Strobe (EST3 116DEXSTC-FJ)	1,271.20	40.07
28 46 21 17-0253	EA	Wall Bracket Mounting Elbow (EST3 116EX-B)	240.39	13.36
28 46 21 17-0254	EA	Ceiling / Wall Mounting Module (EST3 116EX-C)	313.71	16.03
28 46 21 17-0255	EA	Pendant Mounting Module (EST3 116EX-P)	232.48	16.03

28 46 21 17-0256 Hazardous Location Bells *(28 46 21 17-0238)*

28 46 21 17-0257	EA	6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW)	923.26	40.07
28 46 21 17-0258	EA	8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW)	946.63	40.07
28 46 21 17-0259	EA	10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW)	955.05	40.07

28 46 21 17-0260 Hazardous Location Horns *(28 46 21 17-0238)*

28 46 21 17-0261	EA	Hazardous Location Horns (EST3 888D-N5)	903.13	40.07
28 46 21 17-0262	EA	Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW)	741.44	40.07

28 46 21 17-0263 Door Holders And Relays *(28 46 21 17-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0264		**Electromagnetic Door Holders** *(28 46 21 17-0263)*		
28 46 21 17-0265	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5)	179.03	40.07
28 46 21 17-0266	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5)	225.92	40.07
28 46 21 17-0267	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5)	155.08	40.07
28 46 21 17-0268	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5)	155.08	40.07
28 46 21 17-0269	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5)	157.25	40.07
28 46 21 17-0270	EA	24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5)	159.31	40.07
28 46 21 17-0271		**Control Relays, Multi-Voltage** *(28 46 21 17-0263)*		
28 46 21 17-0272	EA	Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1)	36.15	8.01
28 46 21 17-0273		**FireShield Plus** *(28 46 21 17-0002)*		
28 46 21 17-0274		**3 Zone System** *(28 46 21 17-0273)*		
28 46 21 17-0275	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R)	1,024.23	320.58
28 46 21 17-0276	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD)	1,471.52	427.43
28 46 21 17-0277	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G)	1,024.23	320.58
28 46 21 17-0278	EA	Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD)	1,471.52	427.43
28 46 21 17-0279	EA	Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	67.13	13.36
28 46 21 17-0280	EA	Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	67.13	13.36
28 46 21 17-0281		**5 Zone System** *(28 46 21 17-0273)*		
28 46 21 17-0282	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R)	1,089.63	320.58
28 46 21 17-0283	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD)	1,533.18	427.43
28 46 21 17-0284	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G)	1,089.63	320.58
28 46 21 17-0285	EA	Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD)	1,533.18	427.43
28 46 21 17-0286	EA	Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	67.13	13.36
28 46 21 17-0287	EA	Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	67.13	13.36
28 46 21 17-0288		**10 Zone System** *(28 46 21 17-0273)*		
28 46 21 17-0289	EA	Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R)	1,555.60	427.43
28 46 21 17-0290	EA	Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD)	2,002.90	534.29
28 46 21 17-0291	EA	Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G)	1,527.57	427.43
28 46 21 17-0292	EA	Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD)	2,002.90	534.29
28 46 21 17-0293	EA	Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G)	77.25	13.36
28 46 21 17-0294	EA	NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120)	142.41	26.72
28 46 21 17-0295		**FireShield Plus Off Premise Communication Options** *(28 46 21 17-0273)*		
28 46 21 17-0296	EA	F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT)	296.35	26.72
28 46 21 17-0297		**FireShield Plus Remote LED Annunciators** *(28 46 21 17-0273)*		
28 46 21 17-0298	EA	Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI)	140.77	40.07
28 46 21 17-0299	EA	Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A)	140.77	40.07
28 46 21 17-0300	EA	Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA)	145.54	40.07
28 46 21 17-0301	EA	Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2)	28.18	8.01
28 46 21 17-0302	EA	Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3)	34.28	8.01
28 46 21 17-0303	EA	Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4)	48.93	8.01
28 46 21 17-0304		**FireShield Plus Remote 10 Zone LED Annunciators** *(28 46 21 17-0273)*		
28 46 21 17-0305	EA	Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10)	397.81	40.07
28 46 21 17-0306	EA	Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C)	435.18	40.07

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0307	EA	Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1)	146.86	26.72
28 46 21 17-0308		**FireShield Plus Remote Relays And Interfaces** *(28 46 21 17-0273)*		
28 46 21 17-0309	EA	Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24)	154.49	26.72
28 46 21 17-0310	EA	11" Snap Track Holds 2-4 RRMs, Used To Mount FSRRMs In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11)	66.49	16.03
28 46 21 17-0311	EA	Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM)	238.42	26.72
28 46 21 17-0312		**FireShield Plus Accessories** *(28 46 21 17-0273)*		
28 46 21 17-0313	EA	Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1)	15.16	
28 46 21 17-0314	EA	4.7k UL End Of Line Resistor With Fireshield Panels (EST3 EOL47PK7)	10.04	
28 46 21 17-0315		**iO Series Fire Control Panels** *(28 46 21 17-0002)*		
28 46 21 17-0316		**Intelligent Analog Control Panels** *(28 46 21 17-0315)*		
28 46 21 17-0317	EA	FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G)	3,123.81	534.29
28 46 21 17-0318	EA	FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD)	3,305.07	534.29
28 46 21 17-0319	EA	FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G)	2,494.56	427.43
28 46 21 17-0320	EA	FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD)	2,578.65	427.43
28 46 21 17-0321		**Option Modules And Accessories For iO Series** *(28 46 21 17-0315)*		
28 46 21 17-0322	EA	16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1)	267.00	40.07
28 46 21 17-0323	EA	16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2)	173.57	40.07
28 46 21 17-0324	EA	Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232)	173.57	40.07
28 46 21 17-0325	EA	Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA)	146.86	26.72
28 46 21 17-0326	EA	Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT)	285.67	21.37
28 46 21 17-0327	EA	Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH)	509.91	21.37
28 46 21 17-0328	EA	Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1)	65.96	13.36
28 46 21 17-0329	EA	Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2)	75.30	13.36
28 46 21 17-0330	EA	Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250)	947.74	53.43
28 46 21 17-0331		**Remote Annunciators For iO Series** *(28 46 21 17-0315)*		
28 46 21 17-0332	EA	Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD)	523.93	40.07
28 46 21 17-0333	EA	Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C)	547.30	40.07
28 46 21 17-0334		**Remote Annunciator Accessories** *(28 46 21 17-0315)*		
28 46 21 17-0335	EA	24 Expander Cable Assembly, With Cable And Hardware (EST3 730073)	64.09	13.36
28 46 21 17-0336	EA	12 Expander Cable (Cable Only) (EST3 7120313-01)	45.41	13.36
28 46 21 17-0337	EA	24 Expander Cable (Cable Only) (EST3 7120313-02)	59.41	13.36
28 46 21 17-0338	EA	Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1)	173.57	40.07
28 46 21 17-0339	EA	Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2)	196.92	40.07
28 46 21 17-0340	EA	Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3)	220.29	40.07
28 46 21 17-0341	EA	Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC)	45.41	13.36
28 46 21 17-0342	EA	Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC)	45.41	13.36
28 46 21 17-0343	EA	Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY)	86.23	13.36
28 46 21 17-0344		**System Accessories** *(28 46 21 17-0315)*		
28 46 21 17-0345	EA	Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1)	308.85	53.43
28 46 21 17-0346	EA	Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A)	1,492.44	427.43
28 46 21 17-0347		**Conventional Initiating Devices** *(28 46 21 17-0002)*		
28 46 21 17-0348		**Detectors, Heat, Double Pole** *(28 46 21 17-0347)*		
		Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 21 17-0349	EA	Heat Detector, 135 Degree F Fixed Temperature (CF135-2)	130.49	40.07

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0350	EA	Heat Detector, 200 Degree F Fixed Temperature (CF200-2)	130.49	40.07
28 46 21 17-0351	EA	Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2)	130.49	40.07
28 46 21 17-0352	EA	Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2)	130.49	40.07

28 46 21 17-0353 Detectors, Rate Compensation Heat, Accessories *(28 46 21 17-0347)*

28 46 21 17-0354	EA	Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P)	88.28	40.07
28 46 21 17-0355	EA	Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11)	195.48	21.37
28 46 21 17-0356	EA	4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27)	71.64	26.72

28 46 21 17-0357 Detectors, Heat, Fire-Lite *(28 46 21 17-0347)*

Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.

28 46 21 17-0358	EA	Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135)	123.34	40.07
28 46 21 17-0359	EA	Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194)	123.34	40.07

28 46 21 17-0360 Audio Notification Systems (Standalone Voice Evacuation) *(28 46 21 17-0002)*

28 46 21 17-0361 Audio Notification Panels *(28 46 21 17-0360)*

28 46 21 17-0362	EA	Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG)	3,843.50	534.29
28 46 21 17-0363	EA	Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR)	3,843.50	534.29
28 46 21 17-0364	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG)	2,937.21	534.29
28 46 21 17-0365	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR)	2,937.21	534.29
28 46 21 17-0366	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG)	3,385.69	534.29
28 46 21 17-0367	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR)	3,385.69	534.29

28 46 21 17-0368 Audio Notification Expander Panels *(28 46 21 17-0360)*

28 46 21 17-0369	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG)	3,011.96	534.29
28 46 21 17-0370	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR)	3,011.96	534.29
28 46 21 17-0371	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG)	2,133.71	534.29
28 46 21 17-0372	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR)	2,133.71	534.29
28 46 21 17-0373	EA	Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG)	2,647.58	534.29
28 46 21 17-0374	EA	Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR)	2,647.58	534.29

28 46 21 17-0375 Audio Notification Output Accessories *(28 46 21 17-0360)*

28 46 21 17-0376	EA	Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B)	110.81	13.36
28 46 21 17-0377	EA	Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A)	473.87	26.72
28 46 21 17-0378	EA	Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B)	473.87	26.72
28 46 21 17-0379	EA	Class A Converter (GE ANSZSC4A)	343.07	26.72

28 46 21 17-0380 Audio Notification Remote Microphone *(28 46 21 17-0360)*

28 46 21 17-0381	EA	Microphone (GE ANSMIKE)	137.52	26.72
28 46 21 17-0382	EA	Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG)	520.59	26.72
28 46 21 17-0383	EA	Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR)	520.59	26.72
28 46 21 17-0384	EA	Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP)	120.15	13.36
28 46 21 17-0385	EA	Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR)	68.76	13.36

28 46 21 17-0386 Audio Notification Accessories *(28 46 21 17-0360)*

28 46 21 17-0387	EA	Audio Matching - Line Input/Output Card (GE ANSAUX)	221.61	26.72
28 46 21 17-0388	EA	Class B Backup Amplifier Switching Module (GE ANSBKUP)	221.61	26.72
28 46 21 17-0389	EA	Class A Backup Amplifier Switching Module (GE ANSBKUPA)	221.61	26.72
28 46 21 17-0390	EA	Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANSRSI8)	473.87	26.72

28 46 21 17-0391 Audio Notification Modules, Without Cabinet And Transformer *(28 46 21 17-0360)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0392	EA	100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A) Note: Excludes cabinet.	1,704.53	53.43
28 46 21 17-0393	EA	100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM) Note: Excludes cabinet.	1,788.62	53.43
28 46 21 17-0394	EA	100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD) Note: Excludes cabinet.	2,461.33	53.43
28 46 21 17-0395	EA	25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A) Note: Excludes cabinet.	947.74	53.43
28 46 21 17-0396	EA	25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM) Note: Excludes cabinet.	947.74	53.43
28 46 21 17-0397	EA	25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD)	1,704.53	53.43
28 46 21 17-0398	EA	50W Expander Module (No Microphone Or DMR) (GE ANS50A) Note: Excludes cabinet.	1,368.18	53.43
28 46 21 17-0399	EA	50W Expander Module With Microphone (No DMR) (GE ANS50AM) Note: Excludes cabinet.	1,452.27	53.43
28 46 21 17-0400	EA	50W Audio Notification Module With DMR And Microphone (GE ANS50AMD) Note: Excludes cabinet.	2,124.98	53.43
28 46 21 17-0401	EA	Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180)	110.81	13.36
28 46 21 17-0402	EA	Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885)	83.75	13.36

28 46 21 17-0403 Simplex Fire Alarm *(28 46 21 17)*

28 46 21 17-0404 4100 Fire Alarm Control Panel *(28 46 21 17-0403)*

28 46 21 17-0405	EA	4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACS, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111)	4,966.50	533.30
28 46 21 17-0406	EA	4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141)	5,372.37	533.30
28 46 21 17-0407	EA	4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142)	7,498.08	533.30
28 46 21 17-0408	EA	Up To 127 Points, IDNet Module, (Simplex 4100-3104) Note: Add-on module.	3,371.55	533.30
28 46 21 17-0409	EA	Up To 64 Points, IDNet Module, (Simplex 4100-3105) Note: Add-on module.	2,752.58	533.30
28 46 21 17-0410	EA	Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101) Note: Add-on module.	1,481.32	133.32
28 46 21 17-0411	EA	Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033) Note: Add-on module.	309.27	26.67
28 46 21 17-0412	EA	Dual Port RS-232 Interface Card (Simplex 4100-6038) Note: Add-on module.	863.12	26.67

28 46 21 17-0413 4100U Backbox *(28 46 21 17-0403)*

28 46 21 17-0414	EA	2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425) Note: 24" x 40" beige backbox.	1,526.58	106.66
28 46 21 17-0415	EA	3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443) Note: 24" x 56" beige backbox.	2,128.76	106.66

28 46 21 17-0416 DACT (Digital Alarm Communicator Transmitter) *(28 46 21 17-0403)*

28 46 21 17-0417	EA	6 Zone Fire Control Communicator (Silent Knight SK-5104)	833.36	53.33

28 46 21 17-0418 4010 Fire Alarm Control Panel *(28 46 21 17-0403)*

28 46 21 17-0419	EA	120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101)	4,717.74	533.30
28 46 21 17-0420	EA	240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201)	4,594.21	533.30
28 46 21 17-0421	EA	Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806)	165.40	26.67
28 46 21 17-0422	EA	Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811)	675.17	26.67
28 46 21 17-0423	EA	Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812)	923.47	26.67
28 46 21 17-0424	EA	120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813)	480.71	26.67
28 46 21 17-0425	EA	240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823)	519.15	26.67
28 46 21 17-0426	EA	Battery Meter Module Expansion Module (Simplex 4010-9820)	202.75	26.67

28 46 21 17-0427 Printer *(28 46 21 17-0403)*

28 46 21 17-0428	EA	24 Pin Dot Matrix Printer (Simplex 4190-9013)	1,479.51	26.67

28 46 21 17-0429 NAC Panel / Power Booster *(28 46 21 17-0403)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0430	EA	120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009-9201) Note: Power supply for horns and strobes.	1,012.39	133.32
28 46 21 17-0431		**Battery** *(28 46 21 17-0403)*		
28 46 21 17-0432	EA	50 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9296) Note: Two required for 24 volt DC.	605.90	26.67
28 46 21 17-0433	EA	33 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9276) Note: Two required for 24 volt DC.	406.78	26.67
28 46 21 17-0434	EA	6.2 Amp Hours Sealed Lead Acid Battery (Simplex 2081-9272) Note: Two required for 24 volt DC.	154.56	26.67
28 46 21 17-0435		**Interface Modules** *(28 46 21 17-0403)*		
28 46 21 17-0436	EA	Supervised Individual Addressable Modules (Simplex 4090-9001) Note: Monitor modules for waterflow/tamper, etc.	127.19	26.67
28 46 21 17-0437	EA	Relay Individual Addressable Modules (Simplex 4090-9002) Note: Control modules for gas shutdown, door holders, etc.	250.11	26.67
28 46 21 17-0438	EA	Relay SPDT With LED MR-801/T (Simplex 2088-9032) Note: Interface relay for 120VAC	69.28	26.67
28 46 21 17-0439	EA	SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815)	128.55	26.67
28 46 21 17-0440	EA	Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817)	57.89	13.33
28 46 21 17-0441	EA	Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818)	55.29	13.33
28 46 21 17-0442		**Pull Stations** *(28 46 21 17-0403)*		
28 46 21 17-0443	EA	Addressable Single Action Manual Pull Station (Simplex 4099-9001)	153.56	26.67
28 46 21 17-0444	EA	N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101)	113.19	26.67
28 46 21 17-0445	EA	N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102)	120.99	26.67
28 46 21 17-0446	EA	Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103)	109.68	26.67
28 46 21 17-0447	EA	N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104)	126.21	26.67
28 46 21 17-0448	EA	N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105)	185.59	26.67
28 46 21 17-0449	EA	Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107)	157.43	26.67
28 46 21 17-0450	EA	Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108)	183.46	26.67
28 46 21 17-0451	EA	Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754)	91.51	26.67
28 46 21 17-0452	EA	Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755)	96.27	26.67
28 46 21 17-0453	EA	Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756)	111.61	26.67
28 46 21 17-0454	EA	N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758)	167.35	26.67
28 46 21 17-0455	EA	Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759)	281.36	26.67
28 46 21 17-0456	EA	Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762)	100.18	26.67
28 46 21 17-0457	EA	Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178)	60.51	13.33
28 46 21 17-0458		**Weatherproof Pull Stations** *(28 46 21 17-0403)*		
28 46 21 17-0459	EA	Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138)	152.50	32.00
28 46 21 17-0460	EA	Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211)	95.09	13.33
28 46 21 17-0461		**Heat / Smoke Sensor** *(28 46 21 17-0403)*		
28 46 21 17-0462	EA	32 To 122 Degree F Heat Sensor (Simplex 4098-9733)	156.66	40.00
28 46 21 17-0463	EA	Photoelectric Smoke Sensor (Simplex 4098-9714)	220.54	40.00
28 46 21 17-0464	EA	Sensor Base With Relay Driver (Simplex 4098-9791)	402.69	13.33
28 46 21 17-0465	EA	Standard Sensor Base (Simplex 4098-9792)	207.40	13.33
28 46 21 17-0466	EA	Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737) Note: Relay for 4098-9791	127.67	26.67
28 46 21 17-0467		**Explosion Proof Heat Detector** *(28 46 21 17-0403)*		
28 46 21 17-0468	EA	135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488)	164.82	40.00
28 46 21 17-0469	EA	Explosion Proof Backbox (Killark JLX-21)	102.16	13.33
28 46 21 17-0470	EA	Explosion Proof Backbox Plugs (Killark CUP-2)	9.94	2.67
28 46 21 17-0471		**Weatherproof Heat Detector** *(28 46 21 17-0403)*		
28 46 21 17-0472	EA	194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490)	123.78	40.00
28 46 21 17-0473		**200 Degree F Heat Detector** *(28 46 21 17-0403)*		
28 46 21 17-0474	EA	194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604) Note: Used in kiln rooms and kitchens.	105.43	40.00
28 46 21 17-0475		**Duct Smoke Sensor** *(28 46 21 17-0403)*		
28 46 21 17-0476	EA	Duct Sensor Housing (Simplex 4098-9755)	330.04	21.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0477	EA	Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756) Note: Relay output for AHU shutdown.	453.17	48.00
28 46 21 17-0478	EA	46" To 71" Duct Sampling Tube (Simplex 2098-9798) Note: 25", 49", 73" or 97" sampling tube length.	53.82	13.33
28 46 21 17-0479	EA	Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806)	131.52	40.00

28 46 21 17-0480 Interior Horn *(28 46 21 17-0403)*

28 46 21 17-0481	EA	Red With White "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850)	122.98	40.00
28 46 21 17-0482	EA	White With Red "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853)	122.98	40.00

28 46 21 17-0483 Interior Horn Strobe *(28 46 21 17-0403)*

28 46 21 17-0484	EA	75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426)	163.58	40.00
28 46 21 17-0485	EA	110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427)	163.58	40.00
28 46 21 17-0486	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127)	154.32	40.00
28 46 21 17-0487	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128)	154.32	40.00
28 46 21 17-0488	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129)	154.32	40.00
28 46 21 17-0489	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130)	154.32	40.00
28 46 21 17-0490	EA	Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131)	157.42	40.00
28 46 21 17-0491	EA	Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132)	157.42	40.00
28 46 21 17-0492	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139)	162.88	40.00
28 46 21 17-0493	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140)	160.36	40.00
28 46 21 17-0494	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141)	162.88	40.00
28 46 21 17-0495	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142)	160.36	40.00
28 46 21 17-0496	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227)	154.32	40.00
28 46 21 17-0497	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228)	154.32	40.00
28 46 21 17-0498	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229)	154.32	40.00
28 46 21 17-0499	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230)	154.32	40.00

28 46 21 17-0500 Interior Strobe *(28 46 21 17-0403)*

28 46 21 17-0501	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101)	134.64	40.00
28 46 21 17-0502	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102)	134.64	40.00
28 46 21 17-0503	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103)	134.60	40.00
28 46 21 17-0504	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104)	134.64	40.00
28 46 21 17-0505	EA	Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105)	146.41	40.00
28 46 21 17-0506	EA	Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106)	146.41	40.00
28 46 21 17-0507	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109)	147.16	40.00
28 46 21 17-0508	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110)	149.21	40.00
28 46 21 17-0509	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111)	149.21	40.00
28 46 21 17-0510	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112)	149.21	40.00
28 46 21 17-0511	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201)	134.64	40.00
28 46 21 17-0512	EA	Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202)	134.64	40.00
28 46 21 17-0513	EA	Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203)	134.64	40.00
28 46 21 17-0514	EA	Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204)	134.64	40.00

28 46 21 17-0515 Interior Speakers *(28 46 21 17-0403)*

28 46 21 17-0516	EA	Red With White "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716)	113.02	40.00
28 46 21 17-0517	EA	White With Red "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717)	113.02	40.00
28 46 21 17-0518	EA	Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721)	113.02	40.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0519		**Interior Speaker Strobe** *(28 46 21 17-0403)*		
28 46 21 17-0520	EA	Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151)	172.75	40.00
28 46 21 17-0521	EA	White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153)	172.75	40.00
28 46 21 17-0522		**Surge Suppressors** *(28 46 21 17-0403)*		
28 46 21 17-0523	EA	Overvoltage Suppressor (Simplex 2081-9044)	103.61	8.00
28 46 21 17-0524	EA	Isolated Loop Circuit Protector (Simplex 2081-9028)	67.56	8.00
28 46 21 17-0525	EA	120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A)	217.81	8.00
28 46 21 17-0526	EA	24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHLP24B)	76.85	8.00
28 46 21 17-0527	EA	Mounting Base For Two DTK-2MHLP (Ditek DTK-2MB)	116.36	13.33
28 46 21 17-0528	EA	120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW)	78.69	8.00
28 46 21 17-0529	EA	<105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP)	60.11	8.00
28 46 21 17-0530		**Boxes And Adapters** *(28 46 21 17-0403)*		
28 46 21 17-0531	EA	Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921)	55.29	13.33
28 46 21 17-0532	EA	Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925)	52.70	13.33
28 46 21 17-0533	EA	Red, Surface Mount Adapter Skirt (Simplex 4905-9937)	47.59	13.33
28 46 21 17-0534	EA	White, Surface Mount Adapter Skirt (Simplex 4905-9940)	40.35	13.33
28 46 21 17-0535		**Accessories** *(28 46 21 17-0403)*		
28 46 21 17-0536	EA	End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008)	29.69	13.33
28 46 21 17-0537		**Siemens Fire Alarm** *(28 46 21 17)*		
28 46 21 17-0538		**Conventional Control Panels** *(28 46 21 17-0537)*		
28 46 21 17-0539		**SXL Batteries And Power Supplies** *(28 46 21 17-0538)*		
28 46 21 17-0540	EA	6 Amp Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3)	869.06	53.33
28 46 21 17-0541	EA	Main Board Only For PAD-3 (Siemens PAD-3-MB)	704.62	53.33
28 46 21 17-0542		**Digital Fire Communicators** *(28 46 21 17-0538)*		
28 46 21 17-0543	EA	Four Channel Digital Slave Fire Communicator (Siemens 5129)	682.94	53.33
28 46 21 17-0544		**Addressable Control Panels** *(28 46 21 17-0537)*		
28 46 21 17-0545		**Fireseeker Equipment** *(28 46 21 17-0544)*		
28 46 21 17-0546		**FS-250 System Panels** *(28 46 21 17-0545)*		
28 46 21 17-0547	EA	FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT)	2,274.49	533.30
		Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 21 17-0548	EA	FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT)	2,776.78	533.30
		Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 21 17-0549	EA	FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT)	1,705.37	426.64
		Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 21 17-0550	EA	Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON)	2,277.48	533.30
28 46 21 17-0551		**FS-250 Optional Modules** *(28 46 21 17-0545)*		
28 46 21 17-0552	EA	Main Board Module (Siemens FS-MB2)	875.04	53.33
28 46 21 17-0553	EA	Display Board Module (Siemens FS-DB2)	675.21	26.67
28 46 21 17-0554	EA	Device Loop Card (Siemens FS-DLC)	555.62	26.67
28 46 21 17-0555	EA	Releasing Module (Siemens FS-REL)	253.65	26.67
28 46 21 17-0556	EA	Remote LCD Annunciator (Siemens FS-RD2)	551.88	26.67
28 46 21 17-0557	EA	Relay Processor Card (Siemens FS-RU2)	480.87	26.67
28 46 21 17-0558	EA	Relay Expander Board (Siemens FS-RE8)	412.11	26.67
28 46 21 17-0559	EA	Serial Annunciator Processor Card (Siemens FS-SAU2)	551.88	26.67
28 46 21 17-0560	EA	16 Output Annunciator Extender (Siemens FS-SAE16)	433.03	26.67
28 46 21 17-0561	EA	Digital Alarm Communication Transmitter (Siemens FS-DACT)	394.91	26.67
28 46 21 17-0562	EA	Municipal Tie Module (Siemens FS-MT)	337.36	26.67
28 46 21 17-0563	EA	Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2)	321.18	
28 46 21 17-0564	EA	Programming Cable Kit (Siemens CBL-UD)	84.22	13.33
28 46 21 17-0565	EA	Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE)	152.74	26.67
28 46 21 17-0566	EA	Releasing Power Transformer (Siemens FS-RPT-A)	154.98	26.67
28 46 21 17-0567	EA	Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB)	171.23	21.33
28 46 21 17-0568	EA	Cabinet Trim Kit (Siemens RD-CAB-TK)	268.84	13.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0569		**Firefinder Systems** *(28 46 21 17-0544)*		
28 46 21 17-0570		**XLS Basic Fire System Packages Without Backbox** *(28 46 21 17-0569)*		
28 46 21 17-0571	EA	500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP)	7,629.22	533.30
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 17-0572	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP)	6,775.63	533.30
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 17-0573	EA	250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP)	6,775.63	533.30
		Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 21 17-0574	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD)	11,018.16	533.30
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 21 17-0575	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD)	11,372.45	533.30
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
28 46 21 17-0576	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP)	6,689.68	533.30
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0577	EA	250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP)	6,689.68	533.30
		Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0578	EA	250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP)	7,688.27	533.30
		Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 21 17-0579		**Firefinder - XLS Basic System Equipment** *(28 46 21 17-0569)*		
28 46 21 17-0580	EA	Person Machine Interface With Central Processor (Siemens PMI)	3,557.86	533.30
		Note: Includes inner door.		
28 46 21 17-0581	EA	Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC)	5,763.59	533.30
		Note: Includes inner door.		
28 46 21 17-0582	EA	Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT)	3,557.86	533.30
		Note: Includes inner door.		
28 46 21 17-0583	EA	Two Slot Card Cage (Siemens CC-2)	424.07	26.67
28 46 21 17-0584	EA	Five Slot Card Cage (Siemens CC-5)	708.84	26.67
28 46 21 17-0585	EA	Four Circuit Zone Indicating Card (Siemens ZIC-4A)	1,007.82	26.67
28 46 21 17-0586	EA	Eight Circuit Zone Indicating Card (Siemens ZIC-8B)	1,051.92	26.67
28 46 21 17-0587	EA	Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C)	340.35	26.67
28 46 21 17-0588	EA	Device Loop Card (Siemens DLC)	1,192.44	26.67
		Note: Interfaces with up to 252 detectors and devices.		
28 46 21 17-0589	EA	Controllable Relay Card (Siemens CRC-6)	680.44	26.67
		Note: Provides six programmable relays.		
28 46 21 17-0590	EA	12 Amp Power Supply Charger Module (Siemens PSC-12)	2,544.58	26.67
28 46 21 17-0591	EA	Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI)	4,554.96	533.30
		Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 21 17-0592	EA	Network Interface Card (Siemens NIC-C)	794.05	26.67
		Note: Provides HNET Or XNET communication between enclosures.		
28 46 21 17-0593	EA	12 Amp Power Supply Extender (Siemens PSX-12)	2,118.53	26.67
		Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 21 17-0594	EA	Power Termination Board (Siemens PTB)	367.26	26.67
		Note: Used with systems requiring more than one PSX-12.		
28 46 21 17-0595	EA	Conventional Detector Card (Siemens CDC-4)	765.65	26.67
28 46 21 17-0596	EA	Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS)	1,488.43	26.67
28 46 21 17-0597	EA	Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS)	5,321.36	26.67
28 46 21 17-0598		**Remote Lobby Enclosure** *(28 46 21 17-0569)*		
28 46 21 17-0599	EA	14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2)	1,025.81	106.66
		Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 17-0600	EA	24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4)	1,309.84	106.66
		Note: Flush mounted. Includes clear lens plate on cover.		
28 46 21 17-0601	EA	Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP)	167.69	26.67
		Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 21 17-0602	EA	Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP)	181.89	26.67
		Note: Required to mount up to eight SIM-16 or OCM-16 modules.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0603		**Battery Enclosures** *(28 46 21 17-0569)*		
28 46 21 17-0604	EA	Enclosure For 100 Amp Hours Batteries (Siemens CAB-BATT)	655.07	106.66
28 46 21 17-0605		**Graphic Annunciator Output Drivers And Inputs** *(28 46 21 17-0569)*		
28 46 21 17-0606	EA	Output Control Module (Siemens OCM-16)	495.07	26.67
28 46 21 17-0607	EA	Supervised Input Module (Siemens SIM-16)	495.07	26.67
28 46 21 17-0608		**Remote LCD Displays** *(28 46 21 17-0569)*		
28 46 21 17-0609	EA	Remote LED/LCD System Status Display (Siemens SSD) Note: No control or menu capability.	1,156.34	79.99
28 46 21 17-0610	EA	Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C)	1,299.10	79.99
28 46 21 17-0611		**Voice Equipment** *(28 46 21 17-0569)*		
28 46 21 17-0612	EA	40 Watts Zone Amplifier Card (Siemens ZAC-40)	1,123.68	26.67
28 46 21 17-0613	EA	180 Watts Zone Amplifier Module (Siemens ZAM-180)	2,474.32	26.67
28 46 21 17-0614	EA	Live Voice Module (Siemens LVM) Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.	1,049.68	26.67
28 46 21 17-0615		**MXL Series Equipment** *(28 46 21 17-0544)*		
28 46 21 17-0616		**MXL Optional Equipment** *(28 46 21 17-0615)*		
28 46 21 17-0617	EA	Two Circuit Analog Loop Driver (Siemens ALD-2I)	1,221.86	53.33
28 46 21 17-0618	EA	CXL/MXL Interface Module (Siemens CMI-300)	3,102.93	26.67
28 46 21 17-0619	EA	Four Relay Programmable Relay Module (Siemens CRM-4)	543.66	26.67
28 46 21 17-0620	EA	Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4)	653.53	26.67
28 46 21 17-0621	EA	Remote Conventional Zone Module (Siemens CZM-1B6)	254.39	26.67
28 46 21 17-0622	EA	Short Circuit Line Isolator Module (Siemens Model LIM-1)	162.46	26.67
28 46 21 17-0623	EA	Four Circuit Conventional Zone Module (Siemens CZM-4)	636.34	26.67
28 46 21 17-0624	EA	12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD)	244.43	40.00
28 46 21 17-0625	EA	Lexan Window For RCC (Siemens GENBOX-WD)	163.01	21.33
28 46 21 17-0626	EA	Input Driver Module (Siemens MID-16)	421.82	26.67
28 46 21 17-0627	EA	Programmable Output Driver Module (Siemens MOD-16)	421.82	26.67
28 46 21 17-0628	EA	MXL Output/Input Module (Siemens MOI-7)	666.99	26.67
28 46 21 17-0629	EA	Two Slot Network Option Module Card Cage (Siemens MOM-2)	361.28	26.67
28 46 21 17-0630	EA	Four Slot Network Option Module Card Cage (Siemens MOM-4)	560.85	26.67
28 46 21 17-0631	EA	12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220)	1,386.56	79.99
28 46 21 17-0632	EA	12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240)	1,386.56	79.99
28 46 21 17-0633	EA	Network Interface Module (Siemens NIM-1W)	988.39	26.67
28 46 21 17-0634	EA	U.L. Listed Parallel Printer (Siemens PAL-1)	2,605.17	106.66
28 46 21 17-0635	EA	Peripheral Interface Module, Model PIM-1 (Siemens 500-691324)	299.24	26.67
28 46 21 17-0636	EA	Surface Mounted Remote Command Center (Siemens RCC-1)	3,058.56	533.30
28 46 21 17-0637	EA	Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL)	370.51	53.33
28 46 21 17-0638	EA	Flush Mounted Remote Command Center (Siemens RCC-1F)	3,058.56	533.30
28 46 21 17-0639	EA	Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL)	379.48	53.33
28 46 21 17-0640	EA	Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2)	2,412.02	533.30
28 46 21 17-0641	EA	MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3)	3,480.13	533.30
28 46 21 17-0642	EA	RCC-2/RSE-1 Trim Ring (Siemens RCF-1)	60.31	13.33
28 46 21 17-0643	EA	Remote Diagnostics Module For MXL (Siemens RDM-MXL)	3,993.40	53.33
28 46 21 17-0644	EA	Remote Diagnostics Module For PC (Siemens RDM-PC)	8,475.86	53.33
28 46 21 17-0645	EA	Releasing End Of Line Module (Siemens REL-EOL)	134.80	26.67
28 46 21 17-0646	EA	36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC)	2,556.05	53.33
28 46 21 17-0647	EA	36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL)	2,441.69	53.33
28 46 21 17-0648	EA	8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1)	1,335.25	106.66
28 46 21 17-0649		**Complete MXL And MXLV System Packages Without Enclosure** *(28 46 21 17-0615)*		
28 46 21 17-0650	EA	MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One Mps-6, One MOM-2, One ALD-2I And One PIM-1 (Siemens MXL-SS-EP) Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-2I is a two circuit analog loop driver. PIM-1 is a peripheral interface module.	9,793.09	533.30
28 46 21 17-0651	EA	MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP) Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.	12,594.53	533.30
28 46 21 17-0652	EA	MXLV Demonstration Panel (Siemens MXLV DEMO)	25,677.90	533.30
28 46 21 17-0653		**MXL Basic System** *(28 46 21 17-0615)*		
28 46 21 17-0654	EA	MXL/MXLV Main Control Board (Siemens MMB-3)	6,268.11	533.30

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0655	EA	MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL) Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.	7,941.65	533.30
28 46 21 17-0656	EA	MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2)	2,159.91	53.33
28 46 21 17-0657	EA	MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5)	2,699.56	53.33
28 46 21 17-0658	EA	6 Amperes Power Supply For MXL (Siemens MPS-6)	967.24	79.99
28 46 21 17-0659	EA	220/240 Volt AC Adapter Cable (Siemens CIA-12)	75.25	13.33
28 46 21 17-0660		**MXL/MXLR System Expansion Accessories** *(28 46 21 17-0615)*		
28 46 21 17-0661	EA	MXL Remote Power Supply Module (Siemens PSR-1)	1,178.76	79.99
28 46 21 17-0662	EA	Style 4 Communication Module (Siemens NET-4)	246.92	26.67
28 46 21 17-0663	EA	Style 7 Communication Module (Siemens NET-7)	439.01	26.67
28 46 21 17-0664	EA	MXL/MXL-IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6)	268.60	26.67
28 46 21 17-0665		**Peripheral Devices** *(28 46 21 17-0544)*		
28 46 21 17-0666		**Thermal Detectors** *(28 46 21 17-0665)*		
28 46 21 17-0667	EA	Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R)	116.61	40.00
28 46 21 17-0668	EA	Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R)	116.61	40.00
28 46 21 17-0669	EA	135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F)	116.61	40.00
28 46 21 17-0670	EA	200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F)	116.61	40.00
28 46 21 17-0671	EA	Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP)	172.67	40.00
28 46 21 17-0672	EA	Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP)	172.67	40.00
28 46 21 17-0673	EA	Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP)	399.15	40.00
28 46 21 17-0674		**Beam Smoke Detector** *(28 46 21 17-0665)*		
28 46 21 17-0675	EA	Linear Beam Smoke Detector (Siemens PBA-1191)	1,833.13	40.00
28 46 21 17-0676	EA	Base For Linear Beam Smoke Detector (Siemens PBB-1191)	212.04	13.33
28 46 21 17-0677	EA	20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192)	214.28	13.33
28 46 21 17-0678	EA	10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193)	112.63	13.33
28 46 21 17-0679		**Bases For Detectors** *(28 46 21 17-0665)*		
28 46 21 17-0680	EA	Detector Base (Siemens DB-11)	37.88	13.33
28 46 21 17-0681	EA	Universal Base (Siemens DB-3S)	35.64	13.33
28 46 21 17-0682		**Manual Stations** *(28 46 21 17-0665)*		
28 46 21 17-0683	EA	Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP)	242.64	32.00
28 46 21 17-0684		**Addressable Devices** *(28 46 21 17-0544)*		
28 46 21 17-0685		**Intelligent Detectors And Devices For Firefinder XLS And FS-250** *(28 46 21 17-0684)*		
28 46 21 17-0686	EA	Addressable Fireprint Fire Detector (Siemens HFP-11)	208.55	40.00
28 46 21 17-0687	EA	Addressable Thermal Fire Detector (Siemens HFPT-11)	182.39	40.00
28 46 21 17-0688	EA	Relay Base For H_2-Series Intelligent Detectors (Siemens DB-HR)	151.75	40.00
28 46 21 17-0689	EA	Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC)	107.65	40.00
28 46 21 17-0690	EA	Wall Mounted Remote Alarm Indicator (Siemens RL-HW)	107.65	40.00
28 46 21 17-0691	EA	Addressable Single Action Manual Pull Station (Siemens HMS-S)	211.04	26.67
28 46 21 17-0692	EA	Addressable Double Action Manual Pull Station (Siemens HMS-D)	202.07	26.67
28 46 21 17-0693	EA	Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S)	162.46	26.67
28 46 21 17-0694	EA	Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D)	196.09	26.67
28 46 21 17-0695	EA	Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R)	196.09	26.67
28 46 21 17-0696	EA	Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M)	151.25	26.67
28 46 21 17-0697	EA	Line Isolator Module (Siemens HLIM)	155.73	26.67
28 46 21 17-0698	EA	Remote Convention Zone Module (Siemens HZM)	224.50	26.67
28 46 21 17-0699	EA	Intelligent Control Point Module (Siemens HCP)	281.30	26.67
28 46 21 17-0700	EA	Handheld Programming And Testing Unit (Siemens DPU)	1,192.69	
28 46 21 17-0701	EA	DPU Carrying Case (Siemens DPU-C1)	186.42	
28 46 21 17-0702	EA	Label Printer And Carrying Case (Siemens DPU-PRT)	2,044.54	26.67
28 46 21 17-0703		**Air Duct Housings And Detectors** *(28 46 21 17-0684)*		
28 46 21 17-0704	EA	Air-Duct Housing (Siemens AD2-P)	227.29	21.33
28 46 21 17-0705	EA	Air-Duct Housing With Relay (Siemens AD2-XHR)	255.69	21.33
28 46 21 17-0706	EA	Weatherproof Enclosure For Duct Housing (Siemens WP-2000)	209.55	26.67
28 46 21 17-0707	EA	6" To 1' Duct Sampling Tube (Siemens ST-10)	30.95	8.00
28 46 21 17-0708	EA	>1' To 3' Duct Sampling Tube (Siemens ST-25)	38.52	10.67
28 46 21 17-0709	EA	>3' To 5' Duct Sampling Tube (Siemens ST-50)	48.35	13.33
28 46 21 17-0710	EA	>5' To 10' Duct Sampling Tube (Siemens ST-100)	56.67	16.00
28 46 21 17-0711		**Intelligent Initiating Devices For MXL, MXL-LQ And MXLV** *(28 46 21 17-0684)*		
28 46 21 17-0712	EA	Addressable Fireprint Fire Detector (Siemens FP-11)	216.77	40.00
28 46 21 17-0713	EA	Addressable Thermal Fire Detector (Siemens FPT-11)	189.12	40.00
28 46 21 17-0714	EA	Intelligent Ionization Smoke Detector (Siemens ILI-1)	237.70	40.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0715	EA	Addressable Single Action Manual Pull Station (Siemens MSI-10B)	205.81	26.67
28 46 21 17-0716	EA	Addressable Double Action Manual Pull Station (Siemens MSI-20B)	225.99	26.67
28 46 21 17-0717	EA	Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S)	208.05	26.67
28 46 21 17-0718	EA	Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D)	228.98	26.67
28 46 21 17-0719	EA	Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R)	228.98	26.67
28 46 21 17-0720		**Detector Universal Bases** *(28 46 21 17-0684)*		
28 46 21 17-0721	EA	Detector Base With Relay (Siemens DB-X11RS)	97.68	13.33
28 46 21 17-0722	EA	PE-11 To DB-3 Base Adapter (Siemens DB-ADPT)	52.83	13.33
28 46 21 17-0723	EA	Locking Kit (Siemens LK-11)	11.27	
28 46 21 17-0724	EA	Detector Base With Relay (Siemens DB-X3RS)	97.68	13.33
28 46 21 17-0725	EA	Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11)	112.63	13.33
28 46 21 17-0726	EA	Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX)	50.59	13.33
28 46 21 17-0727	EA	Flush Trim Ring For Bases (Siemens RA-ADB)	24.97	8.00
28 46 21 17-0728	EA	Seal For DB-11 (Siemens DB11-SEAL)	13.07	
28 46 21 17-0729	EA	Gasket For DB-11 (Siemens DB-SEAL)	14.05	
28 46 21 17-0730	EA	Detector Guard Housing (Siemens DGH-11)	140.28	13.33
28 46 21 17-0731	EA	Small Detector Base (Siemens DB-11E)	40.87	13.33
28 46 21 17-0732	EA	Audible Base For Series 3 (Siemens ADBI-60A)	126.08	13.33
28 46 21 17-0733	EA	Base Plug (Siemens DB-11-DP)	11.24	
28 46 21 17-0734		**Air Duct Smoke Detectors** *(28 46 21 17-0684)*		
28 46 21 17-0735	EA	Intelligent Remote Duct Relay Module (Siemens DA-X3SR)	113.87	26.67
28 46 21 17-0736	EA	Weatherproof Enclosure For Duct Housing (Siemens EAD-3)	536.93	26.67
28 46 21 17-0737		**Notification Devices** *(28 46 21 17-0544)*		
28 46 21 17-0738		**Synchronization Control Devices** *(28 46 21 17-0737)*		
28 46 21 17-0739	EA	Dual Synchronization Control Module (Siemens DSC)	162.46	26.67
28 46 21 17-0740		**Stand Alone Strobes** *(28 46 21 17-0737)*		
28 46 21 17-0741	EA	Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R)	143.52	40.00
28 46 21 17-0742	EA	Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R)	154.73	40.00
28 46 21 17-0743	EA	Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR)	143.52	40.00
28 46 21 17-0744	EA	Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR)	154.73	40.00
28 46 21 17-0745	EA	Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW)	154.73	40.00
28 46 21 17-0746	EA	Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW)	143.52	40.00
28 46 21 17-0747	EA	Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R)	162.96	40.00
28 46 21 17-0748	EA	Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP)	156.98	40.00
28 46 21 17-0749	EA	Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP)	156.98	40.00
28 46 21 17-0750	EA	Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP)	166.69	40.00
28 46 21 17-0751	EA	Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP)	166.69	40.00
28 46 21 17-0752		**Horns And Strobes** *(28 46 21 17-0737)*		
28 46 21 17-0753	EA	Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R)	187.62	40.00
28 46 21 17-0754	EA	Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R)	197.34	40.00
28 46 21 17-0755	EA	Wall Mounted Horn (Siemens SE-R)	116.61	40.00
28 46 21 17-0756	EA	Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR)	187.62	40.00
28 46 21 17-0757	EA	Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR)	197.34	40.00
28 46 21 17-0758	EA	Ceiling Mounted Horn (Siemens SEC-R)	121.10	40.00
28 46 21 17-0759	EA	Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R)	187.62	40.00
28 46 21 17-0760	EA	Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R)	197.34	40.00
28 46 21 17-0761	EA	Wall Mounted Low Profile Horn (Siemens SEF-R)	116.61	40.00
28 46 21 17-0762	EA	Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW)	187.62	40.00
28 46 21 17-0763	EA	Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW)	197.34	40.00
28 46 21 17-0764	EA	Ceiling Mounted Low Profile Horn (Siemens SEF-CR)	121.10	40.00
28 46 21 17-0765	EA	Mini Horn (Siemens MH-R)	100.17	40.00
28 46 21 17-0766	EA	Indoor/Outdoor Multi Tone Horn (Siemens MTH-R)	122.59	40.00
28 46 21 17-0767	EA	Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R)	177.91	40.00
28 46 21 17-0768	EA	Industrial Tri-Tone Horn (Siemens ASR)	472.40	40.00
28 46 21 17-0769	EA	Wall Mounted Horn (Siemens HS-R)	122.59	40.00
28 46 21 17-0770	EA	Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R)	178.65	40.00
28 46 21 17-0771	EA	Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R)	190.61	40.00
28 46 21 17-0772	EA	6" Motor Bell (Siemens MBDC-6)	137.54	40.00
28 46 21 17-0773	EA	10" Motor Bell (Siemens MBDC-10)	148.76	40.00
28 46 21 17-0774		**Mounting Accessories** *(28 46 21 17-0737)*		
28 46 21 17-0775	EA	Concealed Conduit Adapter Plate (Siemens APS-R)	35.64	13.33
28 46 21 17-0776	EA	4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R)	35.64	13.33
28 46 21 17-0777	EA	4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R)	36.39	13.33
28 46 21 17-0778	EA	Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX)	54.33	13.33
28 46 21 17-0779	EA	White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W)	44.61	13.33
28 46 21 17-0780	EA	Surface Mounted Speaker Backbox (Siemens SBBS-R)	46.85	13.33
28 46 21 17-0781	EA	Surface Mounted Speaker Backbox (Siemens SBL2S-R)	49.84	13.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0782	EA	Square Semi-Flush Extension Ring (Siemens SERS-R)	40.87	13.33
28 46 21 17-0783	EA	Semi-Flush Plate (Siemens SFPS-R)	34.89	13.33
28 46 21 17-0784	EA	Square Surface Backbox (Siemens SHBBS-R)	40.87	13.33
28 46 21 17-0785	EA	Horn Adapter Plate (Siemens SHMPS-R)	39.38	13.33
28 46 21 17-0786	EA	Ceiling Speaker Extension Ring (Siemens SPEXT-R)	35.64	13.33
28 46 21 17-0787	EA	Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R)	44.61	13.33
28 46 21 17-0788	EA	Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R)	46.85	13.33
28 46 21 17-0789	EA	Weatherproof Speaker Backbox (Siemens WBBS-R)	45.36	13.33
28 46 21 17-0790	EA	Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B)	49.84	13.33
28 46 21 17-0791	EA	Weatherproof Flush Plate (Siemens WFPAS-R)	49.84	13.33
28 46 21 17-0792	EA	Weatherproof Horn Flush Plate (Siemens WFPS-R)	49.84	13.33
28 46 21 17-0793	EA	Weatherproof Horn Backbox (Siemens WPBBS-R)	46.85	13.33
28 46 21 17-0794	EA	Weatherproof Strobe Backbox (Siemens WPSBBS-R)	46.85	13.33
28 46 21 17-0795	EA	Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT)	35.64	13.33
28 46 21 17-0796	EA	Z Series Backbox (Siemens ZBB-R)	39.38	13.33

28 46 21 17-0797 Door Holders *(28 46 21 17-0737)*

28 46 21 17-0798	EA	120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A)	272.83	40.00
28 46 21 17-0799	EA	24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D)	272.83	40.00

28 46 21 17-0800 Voice Equipment *(28 46 21 17-0544)*

28 46 21 17-0801 Voicecom *(28 46 21 17-0800)*

28 46 21 17-0802	EA	Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM)	4,142.37	533.30
28 46 21 17-0803	EA	Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L)	6,422.09	533.30

28 46 21 17-0804 Johnson Controls Fire Alarm *(28 46 21 17)*

28 46 21 17-0805	EA	Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J)	167.14	40.00
28 46 21 17-0806	EA	Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J)	165.52	40.00
28 46 21 17-0807	EA	Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ)	202.64	40.00
28 46 21 17-0808	EA	Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ)	202.12	40.00
28 46 21 17-0809	EA	411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD)	532.79	53.33
28 46 21 17-0810	EA	Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ)	158.86	40.00
28 46 21 17-0811	EA	Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J)	143.50	40.00
28 46 21 17-0812	EA	Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ)	140.24	40.00
28 46 21 17-0813	EA	Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J)	390.59	40.00
28 46 21 17-0814	EA	100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100)	1,853.34	79.99
28 46 21 17-0815	EA	AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E)	1,796.71	79.99
28 46 21 17-0816	EA	120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120)	1,827.26	79.99
28 46 21 17-0817	EA	AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E)	1,750.99	79.99
28 46 21 17-0818	EA	30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30)	869.78	79.99
28 46 21 17-0819	EA	AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E)	869.78	79.99
28 46 21 17-0820	EA	Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT)	848.84	26.67
28 46 21 17-0821	EA	IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT)	882.46	26.67
28 46 21 17-0822	EA	Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A)	651.10	26.67
28 46 21 17-0823	EA	IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A)	651.10	26.67
28 46 21 17-0824	EA	Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R)	462.52	26.67
28 46 21 17-0825	EA	Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610)	1,478.21	53.33
28 46 21 17-0826	EA	Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT)	651.10	26.67
28 46 21 17-0827	EA	Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT)	676.38	26.67
28 46 21 17-0828	EA	Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A)	584.80	26.67
28 46 21 17-0829	EA	Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A)	584.80	26.67
28 46 21 17-0830	EA	Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX)	106.29	24.00
28 46 21 17-0831	EA	Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM)	899.89	53.33
28 46 21 17-0832	EA	Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS)	1,935.39	53.33
28 46 21 17-0833	EA	Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM)	899.89	53.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0834	EA	Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS)	1,935.39	53.33
28 46 21 17-0835	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP)	40.38	13.33
28 46 21 17-0836	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI)	99.37	13.33
28 46 21 17-0837	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB)	94.04	13.33
28 46 21 17-0838	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401)	42.66	13.33
28 46 21 17-0839	EA	Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J)	38.88	13.33
28 46 21 17-0840	EA	Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100)	662.19	53.33
28 46 21 17-0841	EA	Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224)	1,531.54	79.99
28 46 21 17-0842	EA	Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S)	1,617.27	79.99
28 46 21 17-0843	EA	Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK)	180.97	13.33
28 46 21 17-0844	EA	Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK)	123.83	13.33
28 46 21 17-0845	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-5025)	1,532.80	79.99
28 46 21 17-0846	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F)	1,417.24	79.99
28 46 21 17-0847	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF)	1,417.24	79.99
28 46 21 17-0848	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070)	1,657.63	79.99
28 46 21 17-0849	EA	Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E)	1,531.54	79.99
28 46 21 17-0850	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F)	1,531.54	79.99
28 46 21 17-0851	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF)	1,531.54	79.99
28 46 21 17-0852	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525)	1,825.44	79.99
28 46 21 17-0853	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F)	1,825.44	79.99
28 46 21 17-0854	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF)	1,825.44	79.99
28 46 21 17-0855	EA	Innovairflex Intelligent. (Johnson Controls, Inc. #DNR)	197.42	26.67
28 46 21 17-0856	EA	Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW)	297.36	26.67
28 46 21 17-0857	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1)	30.44	10.67
28 46 21 17-0858	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5)	32.79	10.67
28 46 21 17-0859	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10)	75.96	16.00
28 46 21 17-0860	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3)	38.05	10.67
28 46 21 17-0861	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5)	47.07	13.33
28 46 21 17-0862	EA	Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO)	299.05	26.67
28 46 21 17-0863	EA	Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD)	500.99	53.33
28 46 21 17-0864	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4)	431.06	79.99
28 46 21 17-0865	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4)	584.97	79.99
28 46 21 17-0866	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4)	636.41	79.99
28 46 21 17-0867	EA	Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4)	323.41	10.67
28 46 21 17-0868	EA	Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4)	485.35	10.67
28 46 21 17-0869	EA	Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4)	532.99	10.67
28 46 21 17-0870	EA	6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6) Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions	685.53	106.66
28 46 21 17-0871	EA	8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8) Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions	882.72	106.66
28 46 21 17-0872	EA	80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G)	828.63	79.99
28 46 21 17-0873	EA	Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS)	152.40	13.33
28 46 21 17-0874	EA	Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R)	427.08	26.67
28 46 21 17-0875	EA	Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980)	236.47	40.00
28 46 21 17-0876	EA	Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996)	195.94	40.00
28 46 21 17-0877	EA	Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998)	205.16	40.00
28 46 21 17-0878	EA	Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200)	1,548.71	53.33
28 46 21 17-0879	EA	Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S)	1,886.97	53.33
28 46 21 17-0880	EA	Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J)	574.44	26.67
28 46 21 17-0881	EA	IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320) Note: Includes Door, Dress Panel And Back Box, Black	4,010.48	426.64
28 46 21 17-0882	EA	Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG)	1,903.39	53.33
28 46 21 17-0883	EA	Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI)	25,419.04	639.97
28 46 21 17-0884	EA	Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F)	27,704.96	639.97
28 46 21 17-0885	EA	Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP)	31,133.84	639.97
28 46 21 17-0886	EA	Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W)	27,704.96	639.97
28 46 21 17-0887	EA	Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B)	189.73	16.00
28 46 21 17-0888	EA	Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB)	212.59	16.00
28 46 21 17-0889	EA	Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B)	230.88	16.00
28 46 21 17-0890	EA	Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B)	425.18	16.00
28 46 21 17-0891	EA	Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB)	140.19	10.67
28 46 21 17-0892	EA	Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D)	222.11	24.00
28 46 21 17-0893	EA	Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR)	235.22	24.00
28 46 21 17-0894	EA	Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D)	422.88	24.00
28 46 21 17-0895	EA	Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4)	415.66	10.67
28 46 21 17-0896	EA	Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4)	558.53	10.67
28 46 21 17-0897	EA	Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4)	689.97	10.67
28 46 21 17-0898	EA	Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX)	204.96	26.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0899	EA	Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4)	94.84	10.67
28 46 21 17-0900	EA	JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D)	4,001.83	426.64
28 46 21 17-0901	EA	Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640)	2,894.57	319.98
		Note: Includes CHS2-M2 Chassis		
28 46 21 17-0902	EA	Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D)	5,136.56	426.64
28 46 21 17-0903	EA	Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640)	4,891.87	319.98
28 46 21 17-0904	EA	Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E)	3,566.27	319.98
28 46 21 17-0905	EA	Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM)	1,889.65	40.00
28 46 21 17-0906	EA	Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF)	1,908.72	40.00
28 46 21 17-0907	EA	Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF)	1,908.72	40.00
28 46 21 17-0908	EA	Annunciator, Network Control. (Johnson Controls, Inc. #JNCA)	2,261.72	53.33
28 46 21 17-0909	EA	Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. Mounting Options Include: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D). (Johnson Controls, Inc. #JNCA-2)	1,920.53	53.33
28 46 21 17-0910	EA	Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP)	1,782.93	319.98
28 46 21 17-0911	EA	160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160)	1,371.48	53.33
28 46 21 17-0912	EA	80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80)	1,132.56	53.33
28 46 21 17-0913	EA	Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320)	1,807.83	53.33
28 46 21 17-0914	EA	Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32)	558.14	13.33
28 46 21 17-0915	EA	Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24)	182.47	10.67
28 46 21 17-0916	EA	Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48)	223.62	10.67
28 46 21 17-0917	EA	Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32)	450.72	13.33
28 46 21 17-0918	EA	Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32)	822.18	13.33
28 46 21 17-0919	EA	Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320)	1,484.82	13.33
28 46 21 17-0920	EA	Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ)	121.98	13.33
28 46 21 17-0921	EA	Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ)	190.78	13.33
28 46 21 17-0922	EA	Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ)	97.05	13.33
28 46 21 17-0923	EA	Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ)	133.75	13.33
28 46 21 17-0924	EA	Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devises. (Johnson Controls, Inc. #M301MJ)	106.69	13.33
28 46 21 17-0925	EA	Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ)	170.17	13.33
28 46 21 17-0926	EA	Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ)	193.22	13.33
28 46 21 17-0927	EA	SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ)	111.59	13.33
28 46 21 17-0928	EA	Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W)	1,579.55	40.00
28 46 21 17-0929	EA	Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F)	1,400.87	26.67
28 46 21 17-0930	EA	Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W)	1,295.72	26.67
28 46 21 17-0931	EA	Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO)	50.67	5.33
28 46 21 17-0932	EA	Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F)	1,135.04	26.67
28 46 21 17-0933	EA	Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W)	1,081.39	26.67
28 46 21 17-0934	EA	NFV-25/50. (Johnson Controls, Inc. #NFV-25/50)	2,754.15	53.33
28 46 21 17-0935	EA	NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U)	770.44	26.67
28 46 21 17-0936	EA	Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S)	212.19	10.67
28 46 21 17-0937	EA	Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1)	491.09	26.67
28 46 21 17-0938	EA	Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA)	491.09	26.67
28 46 21 17-0939	EA	Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1)	133.35	10.67
28 46 21 17-0940	EA	SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB)	36.52	5.33
28 46 21 17-0941	EA	SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC)	36.52	5.33
28 46 21 17-0942	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR)	148.58	40.00
28 46 21 17-0943	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH)	164.57	40.00
28 46 21 17-0944	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK)	193.53	45.33
28 46 21 17-0945	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK)	191.23	45.33
28 46 21 17-0946	EA	Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8)	1,195.14	106.66
28 46 21 17-0947	EA	Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L)	943.68	106.66
28 46 21 17-0948	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW)	148.58	40.00
28 46 21 17-0949	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH)	164.57	40.00
28 46 21 17-0950	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P)	148.58	40.00
28 46 21 17-0951	EA	Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500)	28.59	10.67
28 46 21 17-0952	EA	SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON)	29.01	5.33
28 46 21 17-0953	EA	SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP)	32.69	5.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-0954	EA	SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS)	29.04	5.33
28 46 21 17-0955	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR)	137.55	40.00
28 46 21 17-0956	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH)	164.57	40.00
28 46 21 17-0957	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK)	193.53	45.33
28 46 21 17-0958	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P)	164.57	40.00
28 46 21 17-0959	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK)	191.23	45.33
28 46 21 17-0960	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P)	148.58	40.00
28 46 21 17-0961	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW)	148.58	40.00
28 46 21 17-0962	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH)	164.57	40.00
28 46 21 17-0963	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P)	164.57	40.00
28 46 21 17-0964	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P)	148.58	40.00
28 46 21 17-0965	EA	Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1)	185.53	13.33
28 46 21 17-0966	EA	Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT)	816.14	53.33
28 46 21 17-0967	EA	Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW)	217.42	53.33
28 46 21 17-0968	EA	Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW)	94.81	26.67
28 46 21 17-0969	EA	Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV)	94.81	26.67
28 46 21 17-0970	EA	Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR)	164.09	26.67
28 46 21 17-0971	EA	Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH)	177.34	26.67
28 46 21 17-0972	EA	Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRVH)	177.34	26.67
28 46 21 17-0973	EA	Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV)	158.82	26.67
28 46 21 17-0974	EA	Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK)	211.88	26.67
28 46 21 17-0975	EA	Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW)	164.09	26.67
28 46 21 17-0976	EA	Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW)	94.81	26.67
28 46 21 17-0977	EA	Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR)	94.81	26.67
28 46 21 17-0978	EA	Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH)	177.34	26.67
28 46 21 17-0979	EA	Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR)	164.09	26.67
28 46 21 17-0980	EA	Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV)	164.09	26.67

28 46 21 17-0981 Honeywell Fire Alarm *(28 46 21 17)*

28 46 21 17-0982 Notifier Fire Alarm *(28 46 21 17-0981)*

28 46 21 17-0983 Fire Alarm Control Panel And Accessories *(28 46 21 17-0982)*

28 46 21 17-0984	EA	NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D)	4,461.24	533.30
28 46 21 17-0985	EA	NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640)	3,786.39	533.30
28 46 21 17-0986	EA	Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320)	4,453.30	533.30
28 46 21 17-0987	EA	Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C)	4,422.46	533.30
28 46 21 17-0988	EA	Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E)	4,323.61	533.30
28 46 21 17-0989	EA	Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R)	4,229.21	533.30
28 46 21 17-0990	EA	Two-Tone Sequential Module (Notifier 2TTM)	260.70	26.67
28 46 21 17-0991	EA	5', Not Low Loss, Antenna Cable (Notifier 7626-5C)	64.93	5.33
28 46 21 17-0992	EA	25', Low Loss, Antenna Cable (Notifier 7626-25HC)	124.64	10.67
28 46 21 17-0993	EA	50', Low Loss, Antenna Cable (Notifier 7626-50HC)	189.20	16.00
28 46 21 17-0994	EA	IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P)	288.38	
28 46 21 17-0995	EA	RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119)	49.50	
28 46 21 17-0996	EA	120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS)	4,154.89	533.30
28 46 21 17-0997	EA	240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYSE)	4,191.31	533.30
28 46 21 17-0998	EA	3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB)	157.09	5.33
28 46 21 17-0999	EA	Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER)	50.06	5.33
28 46 21 17-1000	EA	Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT)	72.43	10.67
28 46 21 17-1001	EA	Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT)	72.75	13.33
28 46 21 17-1002	EA	IP Communicator (Notifier IPDACT-2)	514.15	26.67
28 46 21 17-1003	EA	IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD)	594.42	26.67
28 46 21 17-1004	EA	Red, IP Communicator External Mounting Enclosure (Notifier IPENC) Note: Includes IPBRKT.	148.47	26.67
28 46 21 17-1005	EA	Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B) Note: Includes IPBRKT	148.10	26.67
28 46 21 17-1006	EA	Dual 8TPC To Single 8TPC "Y" Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT)	39.69	10.67
28 46 21 17-1007	EA	Loop Control Module (Notifier LCM-320)	1,437.84	53.33
28 46 21 17-1008	EA	Loop Expander Module (Notifier LEM-320)	1,175.47	53.33
28 46 21 17-1009	EA	Keyboard Display Module For CPU2-640 (Notifier KDM-R2)	1,098.21	53.33
28 46 21 17-1010	EA	7' DACT Phone Cord (Notifier MCBL-7)	19.37	
28 46 21 17-1011	EA	Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1)	150.42	13.33
28 46 21 17-1012	EA	Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R)	177.08	26.67
28 46 21 17-1013	EA	Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B)	177.08	26.67
28 46 21 17-1014	EA	Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2)	607.76	26.67
28 46 21 17-1015	EA	Universal Zone Coder (Notifier UZC-256)	842.68	26.67
28 46 21 17-1016	EA	Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI) Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.	262.04	
28 46 21 17-1017	EA	Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD)	642.34	
28 46 21 17-1018	EA	ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD)	427.84	
28 46 21 17-1019	EA	Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS)	3,704.69	16.00

28 46 21 17-1020 ONYX Cabinets *(28 46 21 17-0982)*

28 46 21 17-1021	EA	Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R)	405.15	13.33
28 46 21 17-1022	EA	Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R)	541.28	13.33
28 46 21 17-1023	EA	Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R)	667.09	13.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1024	EA	Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4)	93.69	16.00
28 46 21 17-1025	EA	Chassis Bridge (Notifier CB-1)	84.46	13.33
28 46 21 17-1026	EA	Four Position Chassis (Notifier CHS-4)	137.04	13.33
28 46 21 17-1027	EA	Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2)	157.42	26.67
28 46 21 17-1028	EA	Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B)	83.66	16.00
28 46 21 17-1029	EA	Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP)	103.91	16.00
28 46 21 17-1030	EA	One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4)	279.16	26.67
28 46 21 17-1031	EA	One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B)	183.01	26.67
28 46 21 17-1032	EA	Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4)	356.99	40.00
28 46 21 17-1033	EA	Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B)	229.07	40.00
28 46 21 17-1034	EA	Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4)	529.21	53.33
28 46 21 17-1035	EA	Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B)	334.26	53.33
28 46 21 17-1036	EA	Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4)	643.21	66.67
28 46 21 17-1037	EA	Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B)	390.91	66.67
28 46 21 17-1038	EA	Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4)	212.49	13.33
28 46 21 17-1039	EA	Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B)	148.56	13.33
28 46 21 17-1040	EA	Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR)	148.56	13.33
28 46 21 17-1041	EA	Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R)	216.20	13.33
28 46 21 17-1042	EA	Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR)	166.40	13.33
28 46 21 17-1043	EA	Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R)	271.95	13.33
28 46 21 17-1044	EA	Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR)	188.33	13.33
28 46 21 17-1045	EA	Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R)	322.49	13.33
28 46 21 17-1046	EA	Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR)	267.49	13.33
28 46 21 17-1047	EA	Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R)	474.86	13.33
28 46 21 17-1048	EA	Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR)	298.70	13.33
28 46 21 17-1049	EA	Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R)	567.02	13.33
28 46 21 17-1050	EA	Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4)	284.48	26.67
28 46 21 17-1051	EA	Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4)	412.32	26.67
28 46 21 17-1052	EA	Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4)	480.70	26.67
28 46 21 17-1053	EA	Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4)	297.12	26.67
28 46 21 17-1054	EA	Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4)	440.57	26.67
28 46 21 17-1055	EA	Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4)	511.92	26.67
28 46 21 17-1056	EA	Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R)	286.71	26.67
28 46 21 17-1057	EA	Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R)	412.32	26.67
28 46 21 17-1058	EA	Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R)	486.65	26.67
28 46 21 17-1059	EA	Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R)	310.50	26.67
28 46 21 17-1060	EA	Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R)	440.57	26.67
28 46 21 17-1061	EA	Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R)	511.92	26.67
28 46 21 17-1062	EA	Backbox With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC)	2,608.49	133.32
28 46 21 17-1063	EA	CAB-4 Series Mounting Kit (Notifier P40-KITB)	268.13	26.67
		Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 21 17-1064	EA	Black, One Tier Backbox Assembly (Notifier SBB-A4)	309.96	79.99
28 46 21 17-1065	EA	Black, Two Tier Backbox Assembly (Notifier SBB-B4)	434.75	106.66
28 46 21 17-1066	EA	Black, Three Tier Backbox Assembly (Notifier SBB-C4)	553.84	106.66
28 46 21 17-1067	EA	Black, Four Tier Backbox Assembly (Notifier SBB-D4)	675.97	133.32
28 46 21 17-1068	EA	Black, Mini, One Tier, Backbox (Notifier SBB-AA4)	174.48	26.67
28 46 21 17-1069	EA	Red, Mini, One Tier, Backbox (Notifier SBB-AA4R)	174.48	26.67
28 46 21 17-1070	EA	Red, One Tier Backbox Assembly (Notifier SBB-A4R)	208.67	26.67
28 46 21 17-1071	EA	Red, Two Tier Backbox Assembly (Notifier SBB-B4R)	283.74	26.67
28 46 21 17-1072	EA	Red, Three Tier Backbox Assembly (Notifier SBB-C4R)	407.87	26.67
28 46 21 17-1073	EA	Red, Four Tier Backbox Assembly (Notifier SBB-D4R)	479.22	26.67
28 46 21 17-1074	EA	Trim Ring For NFS-320 Cabinet (Notifier TR-320)	162.44	16.00
28 46 21 17-1075	EA	Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R)	162.44	16.00
28 46 21 17-1076	EA	Black, “AA” Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4)	215.59	16.00
28 46 21 17-1077	EA	Black, “A” Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4)	172.48	16.00
28 46 21 17-1078	EA	Black, “B” Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4)	173.59	16.00
28 46 21 17-1079	EA	Black, “C” Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4)	171.73	16.00
28 46 21 17-1080	EA	Black, “D” Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4)	175.82	16.00
28 46 21 17-1081	EA	2” Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B)	68.72	16.00
28 46 21 17-1082	EA	Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2)	44.27	5.33

28 46 21 17-1083 NFS2-3030/640 Cabinet Mechanicals *(28 46 21 17-0982)*

28 46 21 17-1084	EA	Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640)	96.40	16.00
28 46 21 17-1085	EA	Blank Module Dress Plate (Notifier BM-1B)	81.40	16.00
28 46 21 17-1086	EA	Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4)	91.10	16.00
28 46 21 17-1087	EA	Four Position Expansion Chassis (Notifier CHS-4MB)	208.77	13.33
28 46 21 17-1088	EA	Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3)	207.02	40.00
28 46 21 17-1089	EA	Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2)	99.93	16.00

28 46 21 17-1090 NFS-3030/640 Cabinet Mechanicals *(28 46 21 17-0982)*

28 46 21 17-1091	EA	Annunciator Dress Plate (Notifier ADP-4B)	91.99	16.00
28 46 21 17-1092	EA	Blank Module Dress Plate (Notifier BMP-1)	61.11	16.00
28 46 21 17-1093	EA	Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L)	132.28	26.67
28 46 21 17-1094	EA	Module Dress Plate (Notifier MP-1B)	92.87	16.00

28 46 21 17-1095 Battery Cabinets *(28 46 21 17-0982)*

28 46 21 17-1096	EA	Six Position Chassis (Notifier CHS-6)	90.65	26.67
28 46 21 17-1097	EA	Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB)	419.35	79.99

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1098		**Digital Voice** *(28 46 21 17-0982)*		
28 46 21 17-1099	EA	Chassis Used With BB-XP (Notifier 18439)	45.62	13.33
28 46 21 17-1100	EA	220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E)	1,715.87	40.00
28 46 21 17-1101	EA	220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E)	1,668.10	40.00
28 46 21 17-1102	EA	220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E)	846.64	40.00
28 46 21 17-1103	EA	Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4)	403.74	40.00
28 46 21 17-1104	EA	Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4)	546.86	53.33
28 46 21 17-1105	EA	Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4)	681.14	66.67
28 46 21 17-1106	EA	Multimode Audio Fiber Link Receiver (Notifier AFL-RM)	732.27	26.67
28 46 21 17-1107	EA	Multimode Audio Fiber Link Transmitter (Notifier AFL-TM)	732.27	26.67
28 46 21 17-1108	EA	Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS)	1,557.65	26.67
28 46 21 17-1109	EA	15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX)	87.43	13.33
28 46 21 17-1110	EA	Flush Mounted, Key Lock, Door (Notifier AFAWS-KR)	142.62	13.33
28 46 21 17-1111	EA	Surface Mounted, Key Lock, Door (Notifier AFAWS-KS)	143.36	13.33
28 46 21 17-1112	EA	Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR)	138.90	13.33
28 46 21 17-1113	EA	Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS)	140.39	13.33
28 46 21 17-1114	EA	Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA)	278.64	13.33
28 46 21 17-1115	EA	Coil Cord, Telephone Chassis (Notifier AFAWS-TELC)	214.71	13.33
28 46 21 17-1116	EA	Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B)	87.97	
28 46 21 17-1117	EA	For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V)	440.96	26.67
28 46 21 17-1118	EA	For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V)	444.87	26.67
28 46 21 17-1119	EA	Blank Dress Plate For CA-2 (Notifier BP-CA2)	86.32	13.33
28 46 21 17-1120	EA	One Tier Chassis For Digital Voice Command Panel (Notifier CA-1)	116.85	26.67
28 46 21 17-1121	EA	Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2)	339.35	40.00
28 46 21 17-1122	EA	Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM)	173.37	26.67
28 46 21 17-1123	EA	Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR)	173.37	26.67
28 46 21 17-1124	EA	Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1)	212.49	13.33
28 46 21 17-1125	EA	Chassis With Paging Microphone With Well (Notifier CMIC-1)	210.26	13.33
28 46 21 17-1126	EA	120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025)	1,321.88	26.67
28 46 21 17-1127	EA	Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F)	1,237.29	26.67
28 46 21 17-1128	EA	Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF)	1,237.29	26.67
28 46 21 17-1129	EA	120 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070)	1,364.22	26.67
28 46 21 17-1130	EA	Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F)	1,344.92	26.67
28 46 21 17-1131	EA	120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525)	1,416.27	26.67
28 46 21 17-1132	EA	Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF)	1,614.01	26.67
28 46 21 17-1133	EA	Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF)	1,614.01	26.67
28 46 21 17-1134	EA	220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E)	1,393.20	26.67
28 46 21 17-1135	EA	220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E)	1,432.35	26.67
28 46 21 17-1136	EA	220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E)	1,493.43	26.67
28 46 21 17-1137	EA	120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525)	949.19	26.67
28 46 21 17-1138	EA	220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E)	974.24	26.67
28 46 21 17-1139	EA	120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570)	996.95	26.67
28 46 21 17-1140	EA	220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E)	1,029.84	26.67
28 46 21 17-1141	EA	120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025)	1,036.89	26.67
28 46 21 17-1142	EA	220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E)	1,067.43	26.67
28 46 21 17-1143	EA	120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070)	1,097.97	26.67
28 46 21 17-1144	EA	220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E)	1,152.79	26.67
28 46 21 17-1145	EA	Dress Plate For CFFT-1 (Notifier DP-CFFT)	98.95	13.33
28 46 21 17-1146	EA	Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1)	87.58	16.00
28 46 21 17-1147	EA	Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4)	99.93	16.00
28 46 21 17-1148	EA	Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B)	166.09	16.00
28 46 21 17-1149	EA	WPS Power Amplifier (Notifier DPA3204P)	521.62	26.67
28 46 21 17-1150	EA	WPS Power Amplifier (Notifier DPA4001P)	440.96	26.67
28 46 21 17-1151	EA	Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232)	985.99	26.67
28 46 21 17-1152	EA	120 Volt AC,125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP) Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V	739.32	26.67
28 46 21 17-1153	EA	220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE) Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V	747.93	26.67
28 46 21 17-1154	EA	Digital Series Distribution Board, Supports One To Four DS-Amp Or DS-AMPE (Notifier DS-DB)	1,241.28	26.67
28 46 21 17-1155	EA	125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA)	487.95	26.67
28 46 21 17-1156	EA	Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM)	252.52	26.67
28 46 21 17-1157	EA	Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXF Series Amplifier), Fiber Option Module (Notifier DS-RFM)	252.52	26.67
28 46 21 17-1158	EA	Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM)	252.52	26.67
28 46 21 17-1159	EA	Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V)	115.21	26.67
28 46 21 17-1160	EA	Analog Output Board For Digital Voice Command (Notifier DVC-AO)	242.99	26.67
28 46 21 17-1161	EA	Extended Memory For Digital Voice Command (Notifier DVC-EM)	1,332.46	26.67
28 46 21 17-1162	EA	Keypad For Digital Voice Command (Notifier DVC-KD)	411.01	53.33
28 46 21 17-1163	EA	Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE)	192.77	
28 46 21 17-1164	EA	Portable Fireman's Telephone Handset (Notifier FHS)	116.58	
28 46 21 17-1165	EA	Red, Fireman's Telephone Handset (Notifier FHS-F)	134.79	
28 46 21 17-1166	EA	Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R)	343.20	26.67
28 46 21 17-1167	EA	Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S)	343.20	26.67
28 46 21 17-1168	EA	Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ)	57.77	8.00
28 46 21 17-1169	EA	Paging Microphone Only (Notifier MIC-1)	168.89	26.67
28 46 21 17-1170	EA	Firefighter's Telephone Handset (Notifier TELH-1)	132.94	
28 46 21 17-1171	EA	Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1)	396.49	26.67
28 46 21 17-1172	EA	Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA)	396.49	26.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1173		**Amplifiers** *(28 46 21 17-0982)*		
28 46 21 17-1174	EA	30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30)	749.35	26.67
28 46 21 17-1175	EA	100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100)	1,618.28	26.67
28 46 21 17-1176	EA	120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120)	1,572.41	26.67
28 46 21 17-1177	EA	Audio Coupling Transformer (Notifier ACT-1)	126.55	26.67
28 46 21 17-1178	EA	Audio Coupling Transformer For DVC-AO (Notifier ACT-4)	145.96	26.67
28 46 21 17-1179	EA	Audio Coupling Transformer For DAA-5025 (Notifier ACT-25)	145.96	26.67
28 46 21 17-1180	EA	Audio Coupling Transformer For DAA-5070 (Notifier ACT-70)	145.96	26.67
28 46 21 17-1181		**FireVoice-25/50 Emergency Voice Evacuation Control Panels** *(28 46 21 17-0982)*		
28 46 21 17-1182	EA	25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50)	3,547.55	533.30
28 46 21 17-1183	EA	Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA)	2,573.47	533.30
28 46 21 17-1184	EA	Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS)	3,273.08	533.30
28 46 21 17-1185	EA	Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS)	4,187.96	533.30
28 46 21 17-1186	EA	Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST)	4,607.73	533.30
28 46 21 17-1187		**System Printer** *(28 46 21 17-0982)*		
28 46 21 17-1188	EA	80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6)	1,607.70	26.67
28 46 21 17-1189		**Batteries** *(28 46 21 17-0982)*		
28 46 21 17-1190	EA	5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP)	440.57	26.67
28 46 21 17-1191	EA	7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP)	355.03	26.67
28 46 21 17-1192	EA	12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP)	462.65	26.67
28 46 21 17-1193	EA	18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP)	275.63	26.67
28 46 21 17-1194	EA	26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP)	379.73	26.67
28 46 21 17-1195	EA	55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550)	378.85	26.67
28 46 21 17-1196	EA	100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000)	594.80	26.67
28 46 21 17-1197		**Battery Backboxes And Miscellaneous Mechanicals** *(28 46 21 17-0982)*		
28 46 21 17-1198	EA	14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17)	127.77	21.33
28 46 21 17-1199	EA	24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25) Note: XP6 modules require a CHS-6.	207.67	21.33
28 46 21 17-1200	EA	15.6" x 15.5" x 5.152", Mounts Up To Two 26 Amp Hour And Charger, Battery Backbox (Notifier BB-26)	352.71	106.66
28 46 21 17-1201	EA	Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH)	175.41	53.33
28 46 21 17-1202	EA	Holds Up To Two BAT-12120 12 Amp Hour Batteries, Battery Holder (Notifier CHS-BH1)	90.96	13.33
28 46 21 17-1203	EA	Battery Bracket For Two 26 Amp Hour Batteries (Notifier SEISKIT-BB25)	227.27	21.33
28 46 21 17-1204	EA	Two 26 Amp Hour Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB)	167.54	21.33
28 46 21 17-1205	EA	Two 12 Amp Hour Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA)	185.00	21.33
28 46 21 17-1206	EA	Two 55 Amp Hour Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB)	196.52	21.33
28 46 21 17-1207		**Power Supplies And Chargers** *(28 46 21 17-0982)*		
28 46 21 17-1208	EA	120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610)	1,159.09	40.00
28 46 21 17-1209	EA	220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E)	1,215.47	40.00
28 46 21 17-1210	EA	Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24)	1,137.50	26.67
28 46 21 17-1211	EA	6A Auxiliary Power Supply (Notifier APS-6R)	670.07	26.67
28 46 21 17-1212	EA	10 Ampere Battery Charger (Notifier BC10A)	789.06	40.00
28 46 21 17-1213	EA	33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100) Note: Holds four 55 ampere hour or two 100 ampere hour batteries	437.86	32.00
28 46 21 17-1214	EA	Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R) Note: Holds four 55 ampere hour or two 100 ampere hour batteries	443.06	32.00
28 46 21 17-1215	EA	30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200) Note: Holds four 55 ampere hour or four 100 ampere hour batteries	686.56	32.00
28 46 21 17-1216	EA	30.34" x 36.5" x 7.5", Holds Four 55 Amp Hour Or Four 100 Amp Hour Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R)	686.56	32.00
28 46 21 17-1217	EA	15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1)	160.36	26.67
28 46 21 17-1218	EA	25 To 120 Ampere Hour Battery Charger (Notifier CHG-120)	879.91	26.67
28 46 21 17-1219	EA	Mounts XPIQ-Ps And/Or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS)	72.75	13.33
28 46 21 17-1220	EA	Door Used For Mounting ACPS-610 (E) In a CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1)	111.03	13.33
28 46 21 17-1221	EA	8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8)	587.92	26.67
28 46 21 17-1222	EA	8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E)	701.89	79.99
28 46 21 17-1223	EA	Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R)	672.91	79.99
28 46 21 17-1224	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8)	773.93	79.99
28 46 21 17-1225	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8E)	767.67	79.99
28 46 21 17-1226	EA	Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CM)	734.65	40.00
28 46 21 17-1227	EA	Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CME)	734.65	40.00
28 46 21 17-1228	EA	12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12)	907.72	40.00
28 46 21 17-1229	EA	12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12E)	867.78	40.00
28 46 21 17-1230	EA	12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CM)	921.03	79.99
28 46 21 17-1231	EA	12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CME)	921.03	79.99

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1232	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6)	658.82	79.99
28 46 21 17-1233	EA	6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E)	658.82	79.99
28 46 21 17-1234	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8)	708.94	79.99
28 46 21 17-1235	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E)	708.94	79.99
28 46 21 17-1236	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA)	575.03	79.99
28 46 21 17-1237	EA	9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA)	672.91	79.99
28 46 21 17-1238	EA	Class A Adapter HPFF8/HPFF12 (Notifier HPP31076)	143.35	13.33
28 46 21 17-1239	EA	Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A)	968.21	26.67
28 46 21 17-1240	EA	Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4)	158.87	26.67

28 46 21 17-1241 Network Control Annunciators *(28 46 21 17-0982)*

28 46 21 17-1242	EA	Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2)	1,615.55	79.99
28 46 21 17-1243	EA	Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO)	68.17	16.00
28 46 21 17-1244	EA	Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit)	51.41	16.00

28 46 21 17-1245 FIRSTVISION Firefighter's Display *(28 46 21 17-0982)*

28 46 21 17-1246	EA	ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD)	12,719.14	533.30

28 46 21 17-1247 FlashScan Addressable Modules *(28 46 21 17-0982)*

28 46 21 17-1248	EA	Intelligent Addressable Control Module (Notifier FCM-1)	149.49	26.67
28 46 21 17-1249	EA	Addressable Dual Monitor Module (Notifier FDM-1)	165.36	26.67
28 46 21 17-1250	EA	Intelligent Addressable Monitor Module (Notifier FMM-1)	126.55	26.67
28 46 21 17-1251	EA	Intelligent Addressable Miniature Monitor Module (Notifier FMM-101)	114.20	26.67
28 46 21 17-1252	EA	Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20)	220.94	26.67
28 46 21 17-1253	EA	Intelligent Addressable Relay Module (Notifier FRM-1)	136.02	26.67
28 46 21 17-1254	EA	Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1)	184.77	26.67
28 46 21 17-1255	EA	SLC Loop Powered Fault Isolator Module (Notifier ISO-X)	124.79	26.67

28 46 21 17-1256 Addressable Device Bases And Accessories *(28 46 21 17-0982)*

28 46 21 17-1257	EA	Intelligent Detector Base With Flange (Notifier B710LP)	47.12	13.33
28 46 21 17-1258	EA	Weatherproof Device Housing (Notifier DH400OE-1)	362.97	26.67

28 46 21 17-1259 XP6/XP10 Transponder *(28 46 21 17-0982)*

28 46 21 17-1260	EA	Synchronization Daughter Module For XP6-C (Notifier SYNC-1)	113.76	26.67
28 46 21 17-1261	EA	Six Circuit Supervised Control Module (Notifier XP6-C)	515.58	26.67
28 46 21 17-1262	EA	Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA)	621.44	26.67
28 46 21 17-1263	EA	Six Relay Control Module (Notifier XP6-R)	496.17	26.67
28 46 21 17-1264	EA	Ten Input Monitor Module (Notifier XP10-M)	594.98	26.67

28 46 21 17-1265 LCD Display Annunciators *(28 46 21 17-0982)*

28 46 21 17-1266	EA	80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80)	684.88	79.99
28 46 21 17-1267	EA	80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80)	945.11	79.99
28 46 21 17-1268	EA	640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160)	976.87	79.99
28 46 21 17-1269	EA	8 To 16 Switch Smoke Control Expander (Notifier SCE-8)	621.18	26.67
28 46 21 17-1270	EA	8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L)	335.03	26.67
28 46 21 17-1271	EA	Eight Switch Smoke Control Master Module (Notifier SCS-8)	801.05	26.67

28 46 21 17-1272 ONYX ACM And AEM Series LED Annunciators *(28 46 21 17-0982)*

28 46 21 17-1273	EA	Remote, Eight Form C Relay Module (Notifier ACM-8R)	361.04	26.67
28 46 21 17-1274	EA	16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT)	678.78	26.67
28 46 21 17-1275	EA	16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT)	522.64	26.67
28 46 21 17-1276	EA	24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT)	678.78	26.67
28 46 21 17-1277	EA	24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT)	522.64	26.67
28 46 21 17-1278	EA	32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A)	522.64	26.67
28 46 21 17-1279	EA	32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A)	469.71	26.67
28 46 21 17-1280	EA	48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A)	522.64	26.67
28 46 21 17-1281	EA	48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A)	469.71	26.67

28 46 21 17-1282 Graphic Annunciator - Lamp Driver Modules *(28 46 21 17-0982)*

28 46 21 17-1283	EA	Single Annunciator Flush Mounted Backbox (Notifier ABF-1B)	235.46	53.33
28 46 21 17-1284	EA	Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB)	253.98	53.33
28 46 21 17-1285	EA	Two Annunciator Flush Mounted Backbox (Notifier ABF-2B)	294.76	66.67
28 46 21 17-1286	EA	Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB)	318.57	66.67
28 46 21 17-1287	EA	Four Annunciator Flush Mounted Backbox (Notifier ABF-4B)	506.00	93.32
28 46 21 17-1288	EA	Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1)	89.78	16.00
28 46 21 17-1289	EA	Single Annunciator Surface Mounted Backbox (Notifier ABS-1B)	160.03	53.33
28 46 21 17-1290	EA	Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB)	139.08	13.33
28 46 21 17-1291	EA	Two Annunciator Surface Mounted Backbox (Notifier ABS-2B)	193.99	53.33
28 46 21 17-1292	EA	12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D)	330.92	66.67
28 46 21 17-1293	EA	Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR)	257.68	13.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1294	EA	Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D)	529.82	93.32
28 46 21 17-1295	EA	Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR)	433.17	16.00
28 46 21 17-1296	EA	Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB)	169.52	21.33
28 46 21 17-1297	EA	Annunciator Key Switch (Notifier AKS-1B)	79.36	8.00
28 46 21 17-1298	EA	Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D)	90.82	26.67
28 46 21 17-1299	EA	32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32)	469.71	26.67
28 46 21 17-1300	EA	24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24)	135.17	5.33
28 46 21 17-1301	EA	48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48)	168.61	5.33
28 46 21 17-1302	EA	32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32)	389.43	26.67
28 46 21 17-1303	EA	Lamp Driver Module (Notifier LDM-R32)	659.09	26.67
28 46 21 17-1304	EA	Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L)	612.26	26.67
28 46 21 17-1305	EA	48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48)	173.07	5.33
28 46 21 17-1306	EA	Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D)	160.96	16.00
28 46 21 17-1307	EA	Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D)	103.16	16.00
28 46 21 17-1308	EA	Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR)	103.16	16.00

28 46 21 17-1309 Network Gateways *(28 46 21 17-0982)*

28 46 21 17-1310	EA	Common Alerting Protocol Gateway (Notifier CAP-GW)	2,480.91	26.67
28 46 21 17-1311	EA	Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF)	1,848.17	26.67
28 46 21 17-1312	EA	Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF)	2,081.53	26.67
28 46 21 17-1313	EA	Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF)	2,292.97	26.67
28 46 21 17-1314	EA	Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W)	1,864.62	26.67
28 46 21 17-1315	EA	Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF)	1,814.50	26.67
28 46 21 17-1316	EA	Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF)	2,042.38	26.67
28 46 21 17-1317	EA	Modbus Gateway (Notifier MODBUS-GW)	2,034.55	26.67
28 46 21 17-1318	EA	22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW)	2,357.02	17.59
28 46 21 17-1319	EA	Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS)	3,500.33	17.59
28 46 21 17-1320	EA	1920x1080P Wide Screen (Notifier MON-42LCDW)	11,072.81	17.59
28 46 21 17-1321	EA	Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD)	533.75	40.00
28 46 21 17-1322	EA	Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD)	972.05	40.00
28 46 21 17-1323	EA	Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD)	1,415.50	40.00
28 46 21 17-1324	EA	Mass Notification Voice Paging (Notifier NOTIFY-IP)	927.18	
28 46 21 17-1325	EA	Embedded NFN Gateway (Notifier NFN-GW-EM)	1,941.15	26.67
28 46 21 17-1326	EA	NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F)	1,941.15	26.67
28 46 21 17-1327	EA	High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF)	2,817.64	26.67
28 46 21 17-1328	EA	High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF)	3,279.66	26.67
28 46 21 17-1329	EA	High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW)	2,817.64	26.67
28 46 21 17-1330	EA	NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W)	1,941.15	26.67
28 46 21 17-1331	EA	Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER)	1,082.84	
28 46 21 17-1332	EA	ONYXWorks Workstation (Notifier ONYXWORKS-WS)	21,213.06	639.97
28 46 21 17-1333	EA	Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW)	4,338.45	
		Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 17-1334	EA	Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF)	4,338.45	
		Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 21 17-1335	EA	Fiber Optics, Standard Network Repeater Board (Notifier RPT-F)	867.74	26.67
28 46 21 17-1336	EA	Wire, Standard Network Repeater Board (Notifier RPT-W)	708.78	26.67
28 46 21 17-1337	EA	Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF)	841.12	26.67
28 46 21 17-1338	EA	Signaling Line Circuit Integration Module (Notifier SLC-IM)	937.44	26.67
28 46 21 17-1339	EA	VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW)	1,940.58	26.67
28 46 21 17-1340	EA	Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS)	1,868.38	26.67
28 46 21 17-1341	EA	Windows 7 Hard Drive Upgrade (Notifier WIN7-UG-US-3)	2,062.56	

28 46 21 17-1342 NOTI-FIRE-NET Network Components *(28 46 21 17-0982)*

28 46 21 17-1343	EA	Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3)	1,941.15	26.67
28 46 21 17-1344	EA	Fiber Optic Network Communications Module (Notifier NCM-F)	871.09	26.67
28 46 21 17-1345	EA	NOTI-FIRE-NET Web Server (Notifier NWS)	1,941.15	26.67
28 46 21 17-1346	EA	Wired Network Communications Module (Notifier NCM-W)	830.51	26.67
28 46 21 17-1347	EA	Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit)	93.40	13.33

28 46 21 17-1348 FireWarden Addressable Fire Panels *(28 46 21 17-0982)*

28 46 21 17-1349	EA	50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50)	1,909.07	533.30
28 46 21 17-1350	EA	Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100)	2,222.24	533.30
28 46 21 17-1351	EA	Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C)	2,402.56	266.65
28 46 21 17-1352	EA	Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E)	2,402.56	266.65
28 46 21 17-1353	EA	Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R)	2,393.16	266.65

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1354		**FireWarden Accessories** *(28 46 21 17-0982)*		
28 46 21 17-1355	EA	Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100)	167.69	40.00
28 46 21 17-1356	EA	Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T)	160.26	40.00
28 46 21 17-1357		**FireWarden Devices** *(28 46 21 17-0982)*		
28 46 21 17-1358	EA	SLC Loop Powered Fault Isolator Module (Notifier N100-ISO)	123.90	26.67
28 46 21 17-1359	EA	Intelligent Addressable Control Module (Notifier NC-100)	145.07	26.67
28 46 21 17-1360	EA	Intelligent Addressable Relay Module (Notifier NC-100R)	139.78	26.67
28 46 21 17-1361	EA	Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100)	326.47	40.00
28 46 21 17-1362	EA	Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R)	391.05	40.00
28 46 21 17-1363	EA	Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100)	139.78	26.67
28 46 21 17-1364	EA	Intelligent Addressable Thermal Detector With Base (Notifier NH-100)	148.80	40.00
28 46 21 17-1365	EA	Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H)	148.80	40.00
28 46 21 17-1366	EA	Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R)	148.80	40.00
28 46 21 17-1367	EA	Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100)	194.67	40.00
28 46 21 17-1368	EA	Intelligent Addressable Monitor Module (Notifier NMM-100)	122.14	26.67
28 46 21 17-1369	EA	Intelligent Addressable Mini Monitor Module (Notifier NMM-100P)	111.99	26.67
28 46 21 17-1370	EA	Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX)	161.39	26.67
28 46 21 17-1371	EA	Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100)	154.97	40.00
28 46 21 17-1372	EA	Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100)	179.48	26.67
28 46 21 17-1373	EA	Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6)	607.33	26.67
28 46 21 17-1374		**SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories** *(28 46 21 17-0982)*		
28 46 21 17-1375	EA	120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402)	1,294.36	426.64
28 46 21 17-1376	EA	120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404)	1,408.16	426.64
28 46 21 17-1377	EA	240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E)	1,014.12	133.32
28 46 21 17-1378	EA	240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E)	1,138.63	133.32
28 46 21 17-1379	EA	Class A Converter Module (Notifier CAC-4)	300.84	26.67
28 46 21 17-1380	EA	Internal Dress Plate, Required For FM And ULC (Notifier DP-4X)	112.46	16.00
28 46 21 17-1381	EA	Remote Zone Annunciator (Notifier RZA-4X)	171.41	40.00
28 46 21 17-1382		**SFP-5UD 5 Zone Control Panels And Accessories** *(28 46 21 17-0982)*		
28 46 21 17-1383	EA	120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD)	1,944.36	533.30
28 46 21 17-1384	EA	120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC)	3,167.46	399.97
28 46 21 17-1385	EA	240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE)	2,092.73	266.65
28 46 21 17-1386	EA	Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR)	2,092.73	266.65
28 46 21 17-1387	EA	Class A Converter Module (Notifier N-CAC-5X)	311.24	26.67
28 46 21 17-1388	EA	Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE)	121.19	16.00
28 46 21 17-1389		**SFP-10UD 10 Zone Control Panels And Accessories** *(28 46 21 17-0982)*		
28 46 21 17-1390	EA	120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC)	3,901.87	533.30
28 46 21 17-1391	EA	240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE)	2,918.92	399.97
28 46 21 17-1392	EA	120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD)	2,191.36	533.30
28 46 21 17-1393	EA	Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR)	3,452.23	533.30
28 46 21 17-1394	EA	Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC)	537.55	79.99
28 46 21 17-1395		**Smoke Detectors** *(28 46 21 17-0982)*		
28 46 21 17-1396	EA	Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851)	207.02	40.00
28 46 21 17-1397	EA	Intelligent Addressable Laser Smoke Detector (Notifier FSL-751)	335.82	40.00
28 46 21 17-1398	EA	Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D)	941.05	40.00
28 46 21 17-1399	EA	Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R) Note: For use with DNR(W) duct detector housing.	152.09	40.00
28 46 21 17-1400	EA	Filters For Harsh Detector (Notifier RF-FTX)	18.72	
28 46 21 17-1401	EA	Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY)	126.33	26.67
28 46 21 17-1402		**Pull Stations** *(28 46 21 17-0982)*		
28 46 21 17-1403	EA	Trim Ring For NBG12 Series Pull Station (Notifier BG12TR)	26.13	5.33
28 46 21 17-1404	EA	One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2)	63.80	13.33
28 46 21 17-1405	EA	Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R)	57.59	13.33
28 46 21 17-1406	EA	Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1)	88.91	26.67
28 46 21 17-1407	EA	DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F)	96.64	26.67
28 46 21 17-1408	EA	Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS)	127.07	26.67
28 46 21 17-1409	EA	Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R)	88.91	26.67
28 46 21 17-1410	EA	Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS)	100.25	26.67
28 46 21 17-1411	EA	Standard "Local" Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL)	100.25	26.67
28 46 21 17-1412	EA	Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR)	100.25	26.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1413	EA	Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1)	95.61	26.67
28 46 21 17-1414	EA	Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R)	102.32	26.67
28 46 21 17-1415	EA	Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL)	703.00	32.00
28 46 21 17-1416	EA	Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S)	80.90	26.67
28 46 21 17-1417	EA	Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12)	84.10	26.67
28 46 21 17-1418	EA	Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L)	89.72	26.67
28 46 21 17-1419	EA	Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB)	191.91	32.00
28 46 21 17-1420	EA	Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS)	119.29	26.67
28 46 21 17-1421	EA	Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR)	102.39	26.67
28 46 21 17-1422	EA	Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX)	162.28	26.67
28 46 21 17-1423	EA	Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE)	44.70	5.33

28 46 21 17-1424 Rate Compensation Heat Detectors *(28 46 21 17-0982)*

28 46 21 17-1425	EA	135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135)	157.62	40.00
28 46 21 17-1426	EA	194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194)	157.62	40.00

28 46 21 17-1427 FM Series Door Releases *(28 46 21 17-0982)*

28 46 21 17-1428	EA	1/2" Door Holder Spacer (Notifier FM900-50)	26.59	8.00
28 46 21 17-1429	EA	3/4" Door Holder Spacer (Notifier FM900-75)	26.59	8.00
28 46 21 17-1430	EA	1" Door Holder Spacer (Notifier FM900-100)	26.59	8.00
28 46 21 17-1431	EA	Door Holder Extension Kit (Notifier FM900)	27.91	8.00
28 46 21 17-1432	EA	90 Degree Door Holder Extension Kit (Notifier FM900-Z)	28.35	8.00
28 46 21 17-1433	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980)	186.73	40.00
28 46 21 17-1434	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996)	164.68	40.00
28 46 21 17-1435	EA	12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998)	164.68	40.00

28 46 21 17-1436 Multicriteria Fire Detector *(28 46 21 17-0982)*

28 46 21 17-1437	EA	Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851)	247.22	40.00
28 46 21 17-1438	EA	Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851) Note: Detects fire, thermal, photo, CO and IR, with Flashscan.	246.48	40.00

28 46 21 17-1439 Modules *(28 46 21 17-0982)*

28 46 21 17-1440	EA	Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1)	284.48	26.67
28 46 21 17-1441	EA	Addressable Firephone Control Module (Notifier FTM-1)	181.17	26.67

28 46 21 17-1442 DH Series Door Releases *(28 46 21 17-0982)*

28 46 21 17-1443	EA	Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC)	160.08	40.00
28 46 21 17-1444	EA	Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB)	169.18	40.00
28 46 21 17-1445	EA	Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD)	177.73	40.00
28 46 21 17-1446	EA	Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC)	175.50	40.00
28 46 21 17-1447	EA	Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB)	182.93	40.00
28 46 21 17-1448	EA	Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD)	189.25	40.00
28 46 21 17-1449	EA	Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC)	160.08	40.00
28 46 21 17-1450	EA	Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB)	168.07	40.00
28 46 21 17-1451	EA	Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD)	177.73	40.00
28 46 21 17-1452	EA	Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1)	198.17	40.00
28 46 21 17-1453	EA	Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1)	210.06	40.00
28 46 21 17-1454	EA	Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1)	223.81	40.00
28 46 21 17-1455	EA	Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2)	227.16	40.00
28 46 21 17-1456	EA	Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2)	241.28	40.00
28 46 21 17-1457	EA	Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2)	258.37	40.00
28 46 21 17-1458	EA	.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC)	18.81	5.33
28 46 21 17-1459	EA	.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B)	18.81	5.33
28 46 21 17-1460	EA	.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D)	20.33	5.33
28 46 21 17-1461	EA	1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC)	18.81	5.33
28 46 21 17-1462	EA	1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B)	18.81	5.33
28 46 21 17-1463	EA	1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D)	20.33	5.33
28 46 21 17-1464	EA	1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC)	19.59	5.33
28 46 21 17-1465	EA	1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC)	19.59	5.33
28 46 21 17-1466	EA	1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B)	20.33	5.33
28 46 21 17-1467	EA	1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D)	21.19	5.33
28 46 21 17-1468	EA	2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC)	21.19	5.33
28 46 21 17-1469	EA	2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC)	21.19	5.33
28 46 21 17-1470	EA	2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B)	21.97	5.33
28 46 21 17-1471	EA	2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D)	21.97	5.33
28 46 21 17-1472	EA	3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC)	21.97	5.33
28 46 21 17-1473	EA	3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B)	22.82	5.33
28 46 21 17-1474	EA	3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D)	22.82	5.33
28 46 21 17-1475	EA	4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC)	23.60	5.33
28 46 21 17-1476	EA	4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC)	23.60	5.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1477	EA	4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB)	24.46	5.33
28 46 21 17-1478	EA	4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD)	26.87	5.33
28 46 21 17-1479	EA	5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC)	26.06	5.33
28 46 21 17-1480	EA	5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B)	25.24	5.33
28 46 21 17-1481	EA	5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D)	26.87	5.33
28 46 21 17-1482	EA	Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCPC)	26.52	8.00
28 46 21 17-1483	EA	Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB)	27.30	8.00
28 46 21 17-1484	EA	Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD)	29.79	8.00
28 46 21 17-1485	EA	Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC)	45.95	8.00
28 46 21 17-1486	EA	Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB)	48.33	8.00
28 46 21 17-1487	EA	Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD)	50.71	8.00
28 46 21 17-1488	EA	Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC)	45.25	13.33
28 46 21 17-1489	EA	Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB)	46.89	13.33
28 46 21 17-1490	EA	Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBD)	50.16	13.33
28 46 21 17-1491	EA	Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF)	229.67	

28 46 21 17-1492 First Command *(28 46 21 17-0982)*

28 46 21 17-1493	EA	Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100)	5,227.22	666.63
28 46 21 17-1494	EA	Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E)	5,274.21	666.63
28 46 21 17-1495	EA	Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA)	1,355.86	53.33
28 46 21 17-1496	EA	Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE)	1,391.10	53.33
28 46 21 17-1497	EA	Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA)	2,452.97	53.33
28 46 21 17-1498	EA	Black, , 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE)	2,531.28	53.33
28 46 21 17-1499	EA	50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt)	594.75	26.67
28 46 21 17-1500	EA	50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt)	594.75	26.67
28 46 21 17-1501	EA	Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4)	353.61	26.67
28 46 21 17-1502	EA	Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6)	514.57	26.67
28 46 21 17-1503	EA	Standalone Firefighter Telephone System (Notifier NFC-FFT) Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.	1,822.58	53.33
28 46 21 17-1504	EA	Local Operator Console (Notifier NFC-LOC) Note: Includes built-in microphone, message and zone control switches, black.	1,784.99	53.33
28 46 21 17-1505	EA	Black, Remote Microphone (Notifier NFC-RM)	511.85	
28 46 21 17-1506	EA	Remote Page Unit (Notifier NFC-RPU) Note: Includes built-in microphone, message control switches, black.	1,514.83	53.33
28 46 21 17-1507	EA	70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V)	271.11	26.67
28 46 21 17-1508	EA	Firefighters Phone Jack (Notifier N-FPJ)	121.91	8.00
28 46 21 17-1509	EA	Thumblatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH)	36.51	8.00
28 46 21 17-1510	EA	Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B)	113.20	16.00

28 46 21 17-1511 LED Displays *(28 46 21 17-0982)*

28 46 21 17-1512	EA	2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215)	1,404.65	32.00
28 46 21 17-1513	EA	Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW)	1,973.35	42.67
28 46 21 17-1514	EA	4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT)	1,996.06	42.67
28 46 21 17-1515	EA	8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8)	1,917.75	42.67
28 46 21 17-1516	EA	16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16)	2,677.35	42.67
28 46 21 17-1517	EA	LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V)	2,035.21	42.67

28 46 21 17-1518 Control Relays *(28 46 21 17-0982)*

28 46 21 17-1519	EA	Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR)	58.41	13.33
28 46 21 17-1520	EA	Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T)	45.85	13.33
28 46 21 17-1521	EA	Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR)	155.53	26.67
28 46 21 17-1522	EA	Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T)	86.32	13.33
28 46 21 17-1523	EA	Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T)	101.74	13.33
28 46 21 17-1524	EA	24 Volt DC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C)	159.62	26.67
28 46 21 17-1525	EA	120 Volt AC, 30 Amp Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C)	159.62	26.67
28 46 21 17-1526	EA	Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR)	87.52	26.67
28 46 21 17-1527	EA	Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T)	49.12	13.33
28 46 21 17-1528	EA	Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR)	168.91	26.67
28 46 21 17-1529	EA	24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1)	66.86	26.67
28 46 21 17-1530	EA	12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2)	66.86	26.67
28 46 21 17-1531	EA	9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4)	66.86	26.67

28 46 21 17-1532 Gamewell-FCI Fire Control Instruments *(28 46 21 17-0982)*

28 46 21 17-1533 7100 Series And NetSOLO® *(28 46 21 17-1532)*

28 46 21 17-1534 7100 Compact Analog Addressable Fire Alarm Control Panels *(28 46 21 17-1533)*

28 46 21 17-1535	EA	Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M)	895.30	319.98
28 46 21 17-1536	EA	Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2)	3,698.68	533.30
28 46 21 17-1537	EA	Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D)	3,995.87	533.30

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28 46 21 17-1538	EA	Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E)	3,698.68	533.30
28 46 21 17-1539	EA	Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E)	3,995.87	533.30
28 46 21 17-1540	EA	Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1)	1,022.29	
28 46 21 17-1541	EA	Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D)	1,221.11	
28 46 21 17-1542	EA	Analog Loop Unit (Gamewell-FCI ALU)	1,221.11	53.33

28 46 21 17-1543 NetSOLO® Intelligent Network *(28 46 21 17-1533)*

28 46 21 17-1544	EA	Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO) Note: Mounted in 7100 panel.	1,351.91	53.33
28 46 21 17-1545	EA	Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP) Note: Mounted in 7100 panel.	1,078.79	53.33

28 46 21 17-1546 Components And Accessories *(28 46 21 17-1533)*

28 46 21 17-1547	EA	Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100)	672.27	40.00
28 46 21 17-1548	EA	Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100)	521.05	53.33
28 46 21 17-1549	EA	Fiber Optic Line Driver Module (Gamewell-FCI FLD-1)	936.48	53.33
28 46 21 17-1550	EA	Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM)	391.29	53.33
28 46 21 17-1551	EA	Enclosure Box (Gamewell-FCI EN-7100)	346.23	106.66
28 46 21 17-1552	EA	Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2)	965.82	26.67

28 46 21 17-1553 E3 Series® Basic System *(28 46 21 17-1532)*

28 46 21 17-1554	EA	Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3)	925.34	53.33
28 46 21 17-1555	EA	Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3)	802.26	53.33
28 46 21 17-1556	EA	Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3)	925.34	53.33
28 46 21 17-1557	EA	Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3)	802.26	53.33
28 46 21 17-1558	EA	LCD Keypad Display (Gamewell-FCI LCD-E3)	581.90	53.33
28 46 21 17-1559	EA	Power Supply Module (Gamewell-FCI PM-9)	755.31	53.33
28 46 21 17-1560	EA	Transponder 9 Ampere Power Supply (Gamewell-FCI PM-9 INX)	639.18	53.33
28 46 21 17-1561	EA	Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A)	620.89	26.67
28 46 21 17-1562	EA	Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3)	373.34	53.33
28 46 21 17-1563	EA	Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO)	961.42	53.33
28 46 21 17-1564	EA	Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP)	809.27	53.33
28 46 21 17-1565	EA	Local Operating Console (Gamewell-FCI 1100-0455)	542.46	40.00
28 46 21 17-1566	EA	Network Graphic Annunciator (Gamewell-FCI 1100-0505)	1,710.02	40.00
28 46 21 17-1567	EA	70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70)	694.90	53.33
28 46 21 17-1568	EA	INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326)	2,070.42	53.33
28 46 21 17-1569	EA	8-1/4” Wide x 10” High x 4-1/2” Deep Cabinet (Gamewell-FCI E3BB-BAA1)	519.33	106.66
28 46 21 17-1570	EA	C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC)	394.55	106.66
28 46 21 17-1571	EA	Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP)	87.99	26.67
28 46 21 17-1572	EA	Programmable Switch Module (Gamewell-FCI ASM-16)	493.86	53.33
28 46 21 17-1573	EA	LED Driver module (Gamewell-FCI ANU-48)	493.86	53.33
28 46 21 17-1574	EA	Network Graphic Annunciator (Gamewell-FCI NGA)	1,435.63	40.00

28 46 21 17-1575 Addressable Devices, Module, Pulls And Accessories *(28 46 21 17-1532)*

28 46 21 17-1576 Velociti® Series Sensors And Bases *(28 46 21 17-1575)*

28 46 21 17-1577	EA	Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F)	165.80	40.00
28 46 21 17-1578	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F)	168.94	40.00
28 46 21 17-1579	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F)	178.35	40.00
28 46 21 17-1580	EA	Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F)	140.68	40.00
28 46 21 17-1581	EA	Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F)	145.92	40.00
28 46 21 17-1582	EA	Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F)	140.68	40.00
28 46 21 17-1583	EA	Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F)	200.33	40.00
28 46 21 17-1584	EA	Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS)	420.08	40.00
28 46 21 17-1585	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF)	368.77	66.67
28 46 21 17-1586	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF)	410.62	66.67
28 46 21 17-1587	EA	Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB)	213.90	
28 46 21 17-1588	EA	Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF)	43.41	13.33
28 46 21 17-1589	EA	Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F)	451.47	40.00
28 46 21 17-1590	EA	Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF)	92.07	13.33
28 46 21 17-1591	EA	Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F)	1,572.67	79.99

28 46 21 17-1592 Velociti® Series Modules And Pull Station *(28 46 21 17-1575)*

28 46 21 17-1593	EA	Style "B", Class “B” Addressable Monitor Module (Gamewell-FCI AMM-2F)	119.78	26.67
28 46 21 17-1594	EA	Dual Style "B", Class “B” Addressable Monitor Module (Gamewell-FCI AMM-2IF)	186.23	26.67
28 46 21 17-1595	EA	Style "D", Class “A” Addressable Monitor Module (Gamewell-FCI AMM-4F)	130.24	26.67
28 46 21 17-1596	EA	Subloop Style "D", Class “A” Addressable Monitor Module (Gamewell-FCI AMM-4SF)	178.90	26.67
28 46 21 17-1597	EA	Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF)	151.17	26.67
28 46 21 17-1598	EA	Addressable Output Supervised Module (Gamewell-FCI AOM-2SF)	156.40	26.67
28 46 21 17-1599	EA	Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF)	225.43	53.33
28 46 21 17-1600	EA	Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF)	161.11	26.67
28 46 21 17-1601	EA	Telephone Filters (Gamewell-FCI AOM-TEL-FL)	26.37	5.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1602		**Components And Accessories** *(28 46 21 17-1575)*		
28 46 21 17-1603	EA	Remote LED Annunciator Alarm (Gamewell-FCI RA400Z) Note: Mounts on single gang box.	68.83	21.33
28 46 21 17-1604	EA	Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5)	34.41	10.67
28 46 21 17-1605	EA	>2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3)	36.50	10.67
28 46 21 17-1606	EA	>4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5)	43.94	13.33
28 46 21 17-1607	EA	>8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10)	68.62	16.00
28 46 21 17-1608	EA	Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451) Note: Mounts on single gang box.	101.27	21.33
28 46 21 17-1609		**Fixed And Rate of Rise Heat Detectors** *(28 46 21 17-1575)*		
28 46 21 17-1610	EA	135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P)	97.78	40.00
28 46 21 17-1611	EA	194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602)	97.78	40.00
28 46 21 17-1612	EA	135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603)	97.61	40.00
28 46 21 17-1613	EA	194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604)	97.61	40.00
28 46 21 17-1614		**NAC Expander/Power Supply** *(28 46 21 17-1575)*		
28 46 21 17-1615	EA	FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8)	1,606.71	426.64
28 46 21 17-1616	EA	6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6)	1,407.89	426.64
28 46 21 17-1617	EA	9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9)	1,507.30	426.64
28 46 21 17-1618		**Batteries And Accessories** *(28 46 21 17-1532)*		
28 46 21 17-1619	EA	B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	233.32	26.67
28 46 21 17-1620	EA	B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	574.45	26.67
28 46 21 17-1621	EA	B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	128.67	26.67
28 46 21 17-1622	EA	BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653)	296.06	53.33
28 46 21 17-1623	EA	BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654)	296.06	53.33
28 46 21 17-1624	EA	12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970)	265.72	53.33
28 46 21 17-1625		**Electronic Door Holders** *(28 46 21 17-1532)* Note: Rixson products.		
28 46 21 17-1626	EA	XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000)	41.43	5.33
28 46 21 17-1627	EA	FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder(Gamewell-FCI 140-90000)	331.13	40.00
28 46 21 17-1628	EA	FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001)	445.19	40.00
28 46 21 17-1629	EA	FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002)	217.49	40.00
28 46 21 17-1630	EA	FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003)	208.07	40.00
28 46 21 17-1631	EA	FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004)	217.49	40.00
28 46 21 17-1632	EA	FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005)	217.07	40.00
28 46 21 17-1633		**SpectrAlert® Advance Wall Mount 2-Wire Horn/Strobes** *(28 46 21 17-1532)* See CSI section 28 46 21 17-1821 for devices.		
28 46 21 17-1634		**SpectrAlert® Advance Accessories** *(28 46 21 17-1532)* See CSI section 28 46 21 17-1821 for backboxes, 28 46 21 17-2081 for backboxes.		
28 46 21 17-1635		**Fire Alarm Programming** *(28 46 21 17-1532)* Note: For device replacement projects only. Do not use these tasks on projects where a fire alarm panel is replaced.		
28 46 21 17-1636	EA	Program And Test Up To 5 Fire Alarm Devices	500.00	
28 46 21 17-1637	EA	Program And Test >5 To 20 Fire Alarm Devices	1,000.00	
28 46 21 17-1638	EA	Program And Test >20 To 50 Fire Alarm Devices	2,000.00	
28 46 21 17-1639		**Fire-Lite Fire Alarm** *(28 46 21 17-0981)*		
28 46 21 17-1640		**Addressable Control Panels** *(28 46 21 17-1639)*		
28 46 21 17-1641	EA	25 Point Intelligent Control (Fire Lite MS-25)	1,668.90	533.30
28 46 21 17-1642	EA	50 Point Intelligent Control (Fire Lite MS-9050UD)	1,815.44	533.30
28 46 21 17-1643	EA	198-Point Intelligent Control (Fire Lite MS-9200UDLS)	2,574.60	533.30
28 46 21 17-1644	EA	636-Point Intelligent Control (Fire Lite MS-9600LS)	3,750.53	533.30
28 46 21 17-1645	EA	636-Point Intelligent Control (Fire Lite MS-9600UDLS)	3,610.72	533.30
28 46 21 17-1646	EA	IP And 4G Cellur Fire Alram Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G)	443.45	
28 46 21 17-1647		**Silent Knight Fire Alarm** *(28 46 21 17-0981)*		
28 46 21 17-1648	EA	Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS)	3,811.74	266.65
28 46 21 17-1649	EA	Supervised Remote Command Unit (Silent Knight EVS-RCU)	1,595.26	159.99
28 46 21 17-1650	EA	50 Watt Amplifier (Silent Knight EVS-50W)	1,117.15	106.66
28 46 21 17-1651	EA	125 Watt Amplifier (Silent Knight EVS-125W)	1,966.84	106.66
28 46 21 17-1652	EA	Voice Evacuation System (Silent Knight SKE-450)	1,882.62	106.66

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1653	EA	Fire Fighters Telephone (Silent Knight SK-FFT)	1,566.81	106.66
28 46 21 17-1654	EA	Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL)	1,617.81	159.99
28 46 21 17-1655	EA	Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808)	1,199.86	106.66
28 46 21 17-1656	EA	Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700)	923.99	106.66
28 46 21 17-1657	EA	Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600)	800.72	106.66
28 46 21 17-1658	EA	Combination Fire And CO Detector (Silent Knight SK-FIRE-CO)	257.09	40.00
28 46 21 17-1659	EA	Photoelectric Detector (Silent Knight SK-PHOTO)	151.28	40.00
28 46 21 17-1660	EA	Photoelectric Thermal Detector (Silent Knight SK-PHOTO-T)	158.64	40.00
28 46 21 17-1661	EA	Ionization Smoke Detector (Silent Knight SK-ION)	159.47	40.00
28 46 21 17-1662	EA	135 Degree Fixed Temperature Detector (Silent Knight SK-HEAT)	140.44	40.00
28 46 21 17-1663	EA	190 Degree Fixed Temperature Detector (Silent Knight SK-HEAT-HT)	147.16	40.00
28 46 21 17-1664	EA	135 Degree Fixed Temperature Rate-of-Rise Detector (Silent Knight SK-HEAT-ROR)	149.64	40.00
28 46 21 17-1665	EA	Sounder Base (Silent Knight B200SR)	87.29	13.33
28 46 21 17-1666	EA	Intelligent Sounder Base (Silent Knight B200S)	92.21	13.33
28 46 21 17-1667	EA	Isolator Base (Silent Knight B224BI)	73.38	13.33
28 46 21 17-1668	EA	Relay Base (Silent Knight B224RB)	74.18	13.33
28 46 21 17-1669	EA	Multi-Criteria Photoelectric Detector With Thermal Sensing (Silent Knight SK-ACCLIMATE)	162.04	40.00
28 46 21 17-1670	EA	Photoelectric Duct Detector (Silent Knight SK-DUCT)	254.01	40.00
28 46 21 17-1671	EA	Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM)	868.01	40.00
28 46 21 17-1672	EA	Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM-T)	989.82	40.00
28 46 21 17-1673	EA	Dual Monitor Module (Silent Knight SK-MONITOR-2)	190.45	40.00
28 46 21 17-1674	EA	Supervised Control Module (Silent Knight SK-CONTROL)	160.46	40.00
28 46 21 17-1675	EA	Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6)	517.53	53.33
28 46 21 17-1676	EA	Relay Control Module (Silent Knight SK-RELAY)	135.38	26.67
28 46 21 17-1677	EA	Six Relay Control Module (Silent Knight SK-RELAY-6)	500.79	53.33
28 46 21 17-1678	EA	Zone Interface Module (Silent Knight SK-ZONE)	163.62	40.00
28 46 21 17-1679	EA	Six Zone Interface Module (Silent Knight SK-ZONE-6)	596.66	53.33
28 46 21 17-1680	EA	Monitor Module (Silent Knight SK-MONITOR)	142.26	40.00
28 46 21 17-1681	EA	10 Input Monitor Module (Silent Knight SK-MON-10)	578.40	53.33
28 46 21 17-1682	EA	Monitor Module (Silent Knight SK-MINIMON)	133.26	40.00
28 46 21 17-1683	EA	Fault Isolator Module (Silent Knight SK-ISO)	147.16	40.00
28 46 21 17-1684	EA	Addressable Heat Sensor (Silent Knight SD505-AHS)	144.72	40.00
28 46 21 17-1685	EA	Analog Ionization Smoke Detector (Silent Knight SD505-AIS)	156.33	40.00
28 46 21 17-1686	EA	Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS)	147.16	40.00
28 46 21 17-1687	EA	6" Addressable Sounder Base (Silent Knight SD505-6SB)	106.15	13.33
28 46 21 17-1688	EA	6" Addressable Relay Base (Silent Knight SD505-6RB)	100.40	13.33
28 46 21 17-1689	EA	6" Isolator Base (Silent Knight SD505-6IB)	91.40	13.33
28 46 21 17-1690	EA	Addressable Input Module (Silent Knight SD500-AIM)	146.36	40.00
28 46 21 17-1691	EA	Addressable Notification Module (Silent Knight SD500-ANM)	177.82	40.00
28 46 21 17-1692	EA	Addressable Relay Module (Silent Knight SD500-ARM)	160.46	40.00
28 46 21 17-1693	EA	SLC Annunciator Driver Module (Silent Knight SD500-LED)	602.82	79.99
28 46 21 17-1694	EA	Loop Isolation Module (Silent Knight SD500-LIM)	152.09	40.00
28 46 21 17-1695	EA	Addressable Mini Input Module (Silent Knight SD500-MIM)	118.06	26.67
28 46 21 17-1696	EA	Single Action Addressable Pull Station (Silent Knight SD500-PS)	149.59	26.67
28 46 21 17-1697	EA	Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)	143.27	26.67
28 46 21 17-1698	EA	Back Box (Silent Knight SK-PSSMBB)	69.09	21.33
28 46 21 17-1699	EA	Smoke Detector Module (Silent Knight SD500-SDM)	168.35	40.00
28 46 21 17-1700	EA	Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB)	41.65	13.33
28 46 21 17-1701	EA	Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB)	41.65	13.33
28 46 21 17-1702	EA	Addressable Duct Housing (Silent Knight SD505-DUCT)	264.79	40.00
28 46 21 17-1703	EA	Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)	340.25	40.00
28 46 21 17-1704	EA	Addressable Duct Detector Test Switch (Silent Knight SD505-DTS)	150.45	40.00
28 46 21 17-1705	EA	Intelligent Power Module (Silent Knight 5895XL)	866.16	106.66
28 46 21 17-1706	EA	Addressable Power Supply (Silent Knight 5496)	605.86	79.99
28 46 21 17-1707	EA	Relay Interface Board (Silent Knight 5883)	230.43	26.67
28 46 21 17-1708	EA	Remote LED Annunciator (Silent Knight 5865-3)	473.39	53.33
28 46 21 17-1709	EA	Remote LED Annunciator (Silent Knight 5865-4)	533.98	53.33
28 46 21 17-1710	EA	Remote LCD Annunciator (Silent Knight SK-5860)	516.07	79.99
28 46 21 17-1711	EA	Serial/Parallel Printer Interface (Silent Knight 5824)	325.91	26.67
28 46 21 17-1712	EA	LED Input/Output Module (Silent Knight / IntelliKnight 5880)	385.85	40.00
28 46 21 17-1713	EA	Addressable Pull Station (Silent Knight SK-Pull-DA/SA)	143.27	26.67
28 46 21 17-1714	EA	Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	494.76	79.99
28 46 21 17-1715	EA	Communicator (Silent Knight IPGSM-4G)	709.38	53.33
28 46 21 17-1716	EA	Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	1,129.18	106.66
28 46 21 17-1717	EA	10 Zone Expander (Silent Knight SK-5217)	315.14	26.67
28 46 21 17-1718	EA	Remote Annunciator (Silent Knight SK-5235)	325.34	53.33
28 46 21 17-1719	EA	Status Display Module (Silent Knight 5280)	98.40	26.67
28 46 21 17-1720	EA	Serial/Parallel Module (Silent Knight 5824)	379.24	53.33
28 46 21 17-1721	EA	Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4)	659.20	106.66
28 46 21 17-1722	EA	Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E)	671.37	106.66
28 46 21 17-1723	EA	Dress Panel (Silent Knight SK-DP2/4)	127.06	26.67
28 46 21 17-1724	EA	Class A Convertor (Silent Knight SK-CAC4)	320.23	40.00
28 46 21 17-1725	EA	Transmitter Module (Silent Knight SK-4XTM	176.25	40.00
28 46 21 17-1726	EA	LED Interface Module (Silent Knight SK-4XLM	163.62	40.00
28 46 21 17-1727	EA	110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24)	162.20	26.67
28 46 21 17-1728	EA	Remote Annunciator (Silent Knight SK-RZA4)	163.62	40.00
28 46 21 17-1729	EA	Zone Relay Module (Silent Knight SK-4XZM)	174.66	40.00
28 46 21 17-1730	EA	Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2)	575.50	106.66
28 46 21 17-1731	EA	Remote Battery Box Accessory Cabinet (Silent Knight RBB)	143.27	26.67
28 46 21 17-1732	EA	Manual Pull Station (single action) (Silent Knight PS-SATK)	83.88	26.67
28 46 21 17-1733	EA	Manual Pull Station (dual action) (Silent Knight PS-DATK)	89.98	26.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1734	EA	Manual Pull Station (dual action) (Silent Knight PS-DA)	88.27	26.67
28 46 21 17-1735	EA	Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH)	79.91	26.67
28 46 21 17-1736	EA	Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB)	168.14	32.00
28 46 21 17-1737	EA	6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495)	570.86	79.99
28 46 21 17-1738	EA	9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499)	637.82	79.99
28 46 21 17-1739	EA	Detector (Silent Knight IDP-PhotoR)	207.71	40.00
28 46 21 17-1740	EA	Monitoring Module (Silent Knight IDP)	207.82	40.00
28 46 21 17-1741	EA	Cabinet (Silent Knight SK-5207)	294.43	79.99
28 46 21 17-1742	EA	Innovair IDP-Product (Silent Knight Innovair IDP-Pduct)	389.43	26.67
28 46 21 17-1743	EA	I/O Input-Output Module (Silent Knight SK-2880)	523.87	26.67
28 46 21 17-1744	EA	Remote Annunciator (Silent Knight RA-2000)	1,504.39	79.99
28 46 21 17-1745	EA	Power Supply (Silent Knight 5195/96)	927.19	26.67
28 46 21 17-1746	EA	8 Zone Expander (Silent Knight SK-5210)	725.53	26.67
28 46 21 17-1747	EA	LCD Remote Annunciator (Silent Knight SK-5230)	309.94	53.33
28 46 21 17-1748	EA	Ionization Smoke Detector (Silent Knight SK-ION)	159.47	40.00
28 46 21 17-1749	EA	Addressable Relay Module (Silent Knight IDP-Relay)	180.82	40.00
28 46 21 17-1750	EA	Telephone Line Monitor (Silent Knight SK-7150)	113.83	26.67
28 46 21 17-1751	EA	Serial Driver Board (Silent Knight SK-2884)	202.56	26.67
28 46 21 17-1752	EA	Smoke Detector Base (Silent Knight IDP-6AB)	60.28	13.33
28 46 21 17-1753	EA	Mini Input Module (Silent Knight IDP-MINIMON)	154.16	26.67
28 46 21 17-1754	EA	Status Display Module (Silent Knight SK-4180)	537.31	26.67
28 46 21 17-1755	EA	8-Channel Digital Communicator (Silent Knight SK-1420)	322.21	26.67
28 46 21 17-1756	EA	Serial Parallel Module (Silent Knight SK-4824)	295.32	26.67
28 46 21 17-1757	EA	Power Supply (Silent Knight SK-5197 / SK-5198)	1,061.63	26.67
28 46 21 17-1758	EA	4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204)	1,826.61	106.66
28 46 21 17-1759	EA	Intelligent Ionization Smoke Detector (Silent Knight IDP-ION)	214.43	40.00
28 46 21 17-1760	EA	Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo)	180.82	40.00
28 46 21 17-1761	EA	Fire Slave Communicator Dialer (Silent Knight SK-5128)	346.49	26.67
28 46 21 17-1762	EA	Intelligent Power Module (with cabinet) (Silent Knight SK-5496)	605.86	79.99

28 46 21 17-1763 Alerton *(28 46 21 17)*

28 46 21 17-1764	EA	UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100)	403.98	8.00

28 46 21 17-1765 Cooper Fire Alarm *(28 46 21 17)*

28 46 21 17-1766	EA	Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R)	144.75	26.67
28 46 21 17-1767	EA	Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001)	2,929.77	45.33
28 46 21 17-1768	EA	Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002)	3,857.93	45.33
28 46 21 17-1769	EA	Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001)	1,423.60	53.33
28 46 21 17-1770	EA	Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002)	1,431.85	53.33
28 46 21 17-1771	EA	Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007)	1,431.85	53.33
28 46 21 17-1772	EA	Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001)	1,066.78	53.33
28 46 21 17-1773	EA	Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003)	1,066.78	53.33
28 46 21 17-1774	EA	Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004)	1,066.78	53.33
28 46 21 17-1775	EA	Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005)	1,431.85	53.33
28 46 21 17-1776	EA	Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006)	1,431.85	53.33
28 46 21 17-1777	EA	Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Blackstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007)	1,431.85	53.33
28 46 21 17-1778	EA	Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008)	1,431.85	53.33
28 46 21 17-1779	EA	Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002)	1,431.85	53.33
28 46 21 17-1780	EA	Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001)	1,645.33	53.33
28 46 21 17-1781	EA	Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003)	1,529.83	53.33
28 46 21 17-1782	EA	Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005)	1,529.83	53.33
28 46 21 17-1783	EA	Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006)	1,529.83	53.33

28 46 21 17-1784 Light Engineered Displays Message Boards *(28 46 21 17)*

28 46 21 17-1785	EA	Two Message Sign, “Announcement” And “Evacuate” (LED SP-2/MNS)	617.64	32.00
28 46 21 17-1786	EA	Four Message Sign, “Fire”, “Weather”, “Announcement”, “E Voltuate” (LED SP-4)	546.38	32.00

28 46 21 17-1787 STI Fire Alarm *(28 46 21 17)*

28 46 21 17-1788	EA	Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100) Note: Includes 9 Volt DC self contained battery.	134.09	16.00
28 46 21 17-1789	EA	Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130)	146.00	16.00
28 46 21 17-1790	EA	Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200)	87.74	16.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1791	EA	Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D)	88.46	16.00
		Note: For surface mounted horn strobes.		
28 46 21 17-1792	EA	Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E)	79.08	16.00
28 46 21 17-1793	EA	Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D)	88.46	16.00
		Note: For surface mounted strobe.		
28 46 21 17-1794	EA	Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E)	72.04	16.00
28 46 21 17-1795	EA	NEMA 4X Rated Polycarbonate Dome Cover (STI-1229)	164.03	16.00
28 46 21 17-1796	EA	Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)	110.64	16.00
		Note: For surface mounted pull stations.		
28 46 21 17-1797	EA	Backplate For Polycarbonate Cover (STI-1280)	54.80	16.00
28 46 21 17-1798	EA	Conduit Gasket For Polycarbonate Cover (STI-3003)	40.66	16.00
28 46 21 17-1799	EA	Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100)	55.59	16.00
28 46 21 17-1800	EA	Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150)	123.27	16.00
28 46 21 17-1801	EA	8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A)	102.71	16.00
28 46 21 17-1802	EA	Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100)	76.73	16.00
28 46 21 17-1803	EA	Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601)	72.76	16.00
28 46 21 17-1804	EA	Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	70.42	16.00
28 46 21 17-1805	EA	Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604)	72.76	16.00
28 46 21 17-1806	EA	Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605)	70.42	16.00
28 46 21 17-1807	EA	Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609)	72.76	16.00
28 46 21 17-1808	EA	Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610)	70.42	16.00
28 46 21 17-1809	EA	Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625)	134.81	16.00
28 46 21 17-1810	EA	White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705)	65.69	16.00
28 46 21 17-1811	EA	Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R)	76.34	16.00
28 46 21 17-1812	EA	Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706)	98.02	16.00
28 46 21 17-1813	EA	Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707)	98.02	16.00
28 46 21 17-1814	EA	White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708)	72.04	16.00
28 46 21 17-1815	EA	Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R)	72.04	16.00
28 46 21 17-1816	EA	White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711)	65.69	16.00
28 46 21 17-1817	EA	Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713)	72.04	16.00
28 46 21 17-1818	EA	White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714)	72.04	16.00
28 46 21 17-1819	EA	Yellow, "High Threat", Push Button Station (STI SS-2201)	86.90	8.00
28 46 21 17-1820	EA	Gasket Kit For STI Covers (STI SUB-121)	38.42	

28 46 21 17-1821 System Sensor Fire Alarm *(28 46 21 17)*

28 46 21 17-1822 Smoke Detectors *(28 46 21 17-1821)*

28 46 21 17-1823	EA	Beam Detector Heater Kit (System Sensor BEAMHK)	43.75	5.33
28 46 21 17-1824	EA	Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR)	176.42	5.33
		Note: Four used with long range kit.		
28 46 21 17-1825	EA	Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK)	235.99	53.33
28 46 21 17-1826	EA	Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK)	179.13	53.33
28 46 21 17-1827	EA	Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK)	150.14	53.33
28 46 21 17-1828	EA	Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B)	137.33	40.00
28 46 21 17-1829	EA	Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B)	134.06	40.00
28 46 21 17-1830	EA	Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B)	143.51	40.00
28 46 21 17-1831	EA	Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B)	139.32	40.00
28 46 21 17-1832	EA	Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B)	141.49	40.00
28 46 21 17-1833	EA	Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B)	146.59	40.00
28 46 21 17-1834	EA	Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B)	191.37	40.00
28 46 21 17-1835	EA	Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151)	113.14	26.67
28 46 21 17-1836	EA	Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T)	127.58	26.67
		Note: Requires B100 series base.		
28 46 21 17-1837	EA	Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK)	206.54	13.33
28 46 21 17-1838	EA	Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK)	74.42	13.33

28 46 21 17-1839 Duct Smoke Detectors *(28 46 21 17-1821)*

28 46 21 17-1840	EA	Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2)	274.72	40.00
28 46 21 17-1841	EA	Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120)	272.49	40.00
28 46 21 17-1842	EA	Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W)	354.52	45.33
28 46 21 17-1843	EA	Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S)	179.68	26.67
28 46 21 17-1844	EA	Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL)	49.08	8.00
28 46 21 17-1845	EA	Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR)	153.42	21.33
28 46 21 17-1846	EA	Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW)	245.83	26.67
28 46 21 17-1847	EA	1' Steel Sampling Tube (System Sensor DST1)	30.92	10.67
28 46 21 17-1848	EA	1.5' Steel Sampling Tube (System Sensor DST1.5)	33.45	10.67
28 46 21 17-1849	EA	3' Steel Sampling Tube (System Sensor DST3)	37.27	10.67
28 46 21 17-1850	EA	5' Steel Sampling Tube (System Sensor DST5)	44.75	13.33
28 46 21 17-1851	EA	10' Steel Sampling Tube (System Sensor DST10)	69.09	16.00
28 46 21 17-1852	EA	1', Steel, Exhaust Tube Duct (System Sensor ETX)	34.49	10.67
28 46 21 17-1853	EA	Remote Test Station For Duct Smoke Detector (System Sensor RTS151)	74.24	13.33
28 46 21 17-1854	EA	Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2)	149.02	
28 46 21 17-1855	EA	Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B)	160.17	

28 46 21 17-1856 Heat Detectors *(28 46 21 17-1821)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1857	EA	Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P)	98.52	40.00
28 46 21 17-1858	EA	Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602)	97.61	40.00
28 46 21 17-1859	EA	Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621)	110.84	40.00
28 46 21 17-1860	EA	Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622)	110.84	40.00

28 46 21 17-1861 Horns *(28 46 21 17-1821)*

28 46 21 17-1862	EA	Red, Mini Horn (System Sensor MHR)	103.59	40.00
28 46 21 17-1863	EA	White, Mini Horn (System Sensor MHW)	103.59	40.00
28 46 21 17-1864	EA	White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL)	104.74	40.00
28 46 21 17-1865	EA	Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R)	129.53	45.33
28 46 21 17-1866	EA	Red, Interior, Wall Mounted, Horn (System Sensor HRL)	104.74	40.00
28 46 21 17-1867	EA	Red, Outdoor, Wall Mounted, Horn (System Sensor HRK)	137.33	40.00

28 46 21 17-1868 Wall Mounted Horns/Strobes *(28 46 21 17-1821)*

28 46 21 17-1869	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL)	135.73	40.00
28 46 21 17-1870	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH)	164.55	40.00
28 46 21 17-1871	EA	Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK)	194.72	45.33
28 46 21 17-1872	EA	Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P)	190.63	45.33
28 46 21 17-1873	EA	Outdoor Backbox, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120)	198.62	45.33
28 46 21 17-1874	EA	Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK)	194.16	45.33
28 46 21 17-1875	EA	Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P)	185.43	45.33
28 46 21 17-1876	EA	Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R)	161.56	40.00
28 46 21 17-1877	EA	Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL-P)	133.13	40.00
28 46 21 17-1878	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL)	135.73	40.00
28 46 21 17-1879	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH)	165.59	40.00
28 46 21 17-1880	EA	Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK)	189.14	45.33
28 46 21 17-1881	EA	Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P)	190.63	45.33
28 46 21 17-1882	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P)	164.55	40.00
28 46 21 17-1883	EA	Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK)	199.73	45.33
28 46 21 17-1884	EA	Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P)	185.43	45.33
28 46 21 17-1885	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P)	132.58	40.00
28 46 21 17-1886	EA	Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL)	159.15	40.00
28 46 21 17-1887	EA	Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH)	169.09	40.00
28 46 21 17-1888	EA	Outdoor Backbox, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK)	194.75	45.33
28 46 21 17-1889	EA	Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R)	181.71	45.33
28 46 21 17-1890	EA	White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL)	159.15	40.00
28 46 21 17-1891	EA	Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor PC4WHK)	206.16	45.33
28 46 21 17-1892	EA	Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK)	191.00	45.33

28 46 21 17-1893 Ceiling Mounted Horns/Strobes *(28 46 21 17-1821)*

28 46 21 17-1894	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL)	137.59	40.00
28 46 21 17-1895	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH)	166.62	40.00
28 46 21 17-1896	EA	Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK)	189.14	45.33
28 46 21 17-1897	EA	Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK)	184.31	45.33
28 46 21 17-1898	EA	Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P)	159.40	40.00
28 46 21 17-1899	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL)	137.59	40.00
28 46 21 17-1900	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH)	166.62	40.00
28 46 21 17-1901	EA	Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK)	189.14	45.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1902	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P)	166.62	40.00
28 46 21 17-1903	EA	Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK)	184.31	45.33
28 46 21 17-1904	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P)	158.37	40.00
28 46 21 17-1905	EA	Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL)	160.08	40.00
28 46 21 17-1906	EA	Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH)	169.09	40.00
28 46 21 17-1907	EA	White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL)	160.08	40.00

28 46 21 17-1908 Wall Mounted Strobes *(28 46 21 17-1821)*

28 46 21 17-1909	EA	White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW)	60.04	13.33
28 46 21 17-1910	EA	White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW)	110.10	13.33
28 46 21 17-1911	EA	Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL)	124.40	40.00
28 46 21 17-1912	EA	Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH)	146.15	40.00
28 46 21 17-1913	EA	Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK)	176.23	45.33
28 46 21 17-1914	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK)	174.47	45.33
28 46 21 17-1915	EA	Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P)	172.05	45.33
28 46 21 17-1916	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R)	153.84	45.33
28 46 21 17-1917	EA	Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P)	123.47	40.00
28 46 21 17-1918	EA	White, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL)	124.03	40.00
28 46 21 17-1919	EA	White, Amber Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT)	132.76	40.00
28 46 21 17-1920	EA	White, Clear Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT)	151.15	40.00
28 46 21 17-1921	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH)	157.34	40.00
28 46 21 17-1922	EA	White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT)	156.30	40.00
28 46 21 17-1923	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P)	156.30	40.00
28 46 21 17-1924	EA	Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P)	174.28	45.33
28 46 21 17-1925	EA	White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK)	172.60	45.33
28 46 21 17-1926	EA	White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P)	173.91	45.33
28 46 21 17-1927	EA	Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R)	170.07	45.33
28 46 21 17-1928	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK)	171.12	45.33
28 46 21 17-1929	EA	White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P)	171.86	45.33
28 46 21 17-1930	EA	White, Plain, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P)	123.28	40.00
28 46 21 17-1931	EA	Amber, Wall Strobe Lens Attachment (System Sensor LENS-A)	20.89	5.33
28 46 21 17-1932	EA	Blue, Wall Strobe Lens Attachment (System Sensor LENS-B)	20.89	5.33
28 46 21 17-1933	EA	Green, Wall Strobe Lens Attachment (System Sensor LENS-G)	20.89	5.33
28 46 21 17-1934	EA	Red, Wall Strobe Lens Attachment (System Sensor LENS-R)	20.89	5.33

28 46 21 17-1935 Ceiling Mounted Strobes *(28 46 21 17-1821)*

28 46 21 17-1936	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL)	126.44	40.00
28 46 21 17-1937	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH)	147.92	40.00
28 46 21 17-1938	EA	Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK)	176.23	45.33
28 46 21 17-1939	EA	Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK)	176.23	45.33
28 46 21 17-1940	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL)	126.44	40.00
28 46 21 17-1941	EA	Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT)	133.88	40.00
28 46 21 17-1942	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH)	159.40	40.00
28 46 21 17-1943	EA	Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK)	172.60	45.33
28 46 21 17-1944	EA	Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK)	171.12	45.33
28 46 21 17-1945	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P)	143.93	40.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1946	EA	Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC)	20.89	5.33
28 46 21 17-1947	EA	Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC)	20.89	5.33
28 46 21 17-1948	EA	Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC)	20.89	5.33
28 46 21 17-1949	EA	Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC)	20.89	5.33

28 46 21 17-1950 Wall Mounted Speakers *(28 46 21 17-1821)*

28 46 21 17-1951	EA	24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V)	296.28	40.00
28 46 21 17-1952	EA	Red, Wall Mounted Speaker (System Sensor SPRL)	109.35	40.00
28 46 21 17-1953	EA	Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK)	163.61	40.00
28 46 21 17-1954	EA	Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R)	141.94	45.33
28 46 21 17-1955	EA	Red, High dB, Wall Mounted Speaker (System Sensor SPRV)	124.10	40.00
28 46 21 17-1956	EA	White, Wall Mounted Speaker (System Sensor SPWL)	109.35	40.00
28 46 21 17-1957	EA	White, Outdoor, Wall Mounted Speaker (System Sensor SPWK)	173.53	45.33
28 46 21 17-1958	EA	White, High dB, Wall Mounted Speaker (System Sensor SPWV)	120.79	40.00

28 46 21 17-1959 Ceiling Mounted Speakers *(28 46 21 17-1821)*

28 46 21 17-1960	EA	Red, Ceiling Mounted Speaker (System Sensor SPCRL)	107.30	40.00
28 46 21 17-1961	EA	Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK)	159.83	40.00
28 46 21 17-1962	EA	Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRV)	124.10	40.00
28 46 21 17-1963	EA	White, Ceiling Mounted Speaker (System Sensor SPCWL)	108.98	40.00
28 46 21 17-1964	EA	White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV)	131.55	40.00
28 46 21 17-1965	EA	White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK)	174.28	45.33

28 46 21 17-1966 Wall Mounted Speakers/Strobes *(28 46 21 17-1821)*

28 46 21 17-1967	EA	White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL)	108.80	13.33
28 46 21 17-1968	EA	White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSWL)	57.81	13.33
28 46 21 17-1969	EA	Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL)	165.46	40.00
28 46 21 17-1970	EA	Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH)	179.67	40.00
28 46 21 17-1971	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK)	235.33	45.33
28 46 21 17-1972	EA	Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P)	231.51	45.33
28 46 21 17-1973	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R)	200.66	45.33
28 46 21 17-1974	EA	Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P)	163.79	40.00
28 46 21 17-1975	EA	Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV)	174.38	40.00
28 46 21 17-1976	EA	White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT)	166.21	40.00
28 46 21 17-1977	EA	White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT)	234.11	45.33
28 46 21 17-1978	EA	White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL)	165.46	40.00
28 46 21 17-1979	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH)	196.52	40.00
28 46 21 17-1980	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P)	196.52	40.00
28 46 21 17-1981	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK)	241.54	45.33
28 46 21 17-1982	EA	White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P)	230.76	45.33
28 46 21 17-1983	EA	White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P)	163.05	40.00
28 46 21 17-1984	EA	White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV)	190.34	40.00
28 46 21 17-1985	EA	White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P)	190.34	40.00

28 46 21 17-1986 Ceiling Mounted Speakers/Strobes *(28 46 21 17-1821)*

28 46 21 17-1987	EA	Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRL)	155.43	40.00
28 46 21 17-1988	EA	Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH)	181.44	40.00
28 46 21 17-1989	EA	Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV)	174.38	40.00
28 46 21 17-1990	EA	White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL)	155.43	40.00
28 46 21 17-1991	EA	White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-CLR-ALERT)	164.72	40.00
28 46 21 17-1992	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH)	196.52	40.00
28 46 21 17-1993	EA	White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK)	242.66	45.33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-1994	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P)	196.52	40.00
28 46 21 17-1995	EA	White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT)	234.48	45.33
28 46 21 17-1996	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK)	241.54	45.33
28 46 21 17-1997	EA	White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-P)	155.43	40.00
28 46 21 17-1998	EA	White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV)	190.34	40.00
28 46 21 17-1999	EA	White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH)	196.52	40.00
28 46 21 17-2000	EA	White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P)	190.34	40.00
28 46 21 17-2001	EA	High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH)	196.23	40.00

28 46 21 17-2002 Electric Alarm Bells *(28 46 21 17-1821)*

28 46 21 17-2003	EA	6” 24 Volt DC Alarm Bell (System Sensor SSM24-6)	131.09	40.00
28 46 21 17-2004	EA	8” 24 Volt DC Alarm Bell (System Sensor SSM24-8)	140.19	40.00
28 46 21 17-2005	EA	10” 24 Volt DC Alarm Bell (System Sensor SSM24-10)	150.23	40.00
28 46 21 17-2006	EA	6" 120 Volt AC Alarm Bell (System Sensor SSV120-6)	138.79	40.53
28 46 21 17-2007	EA	8" 120 Volt AC Alarm Bell (System Sensor SSV120-8)	140.15	40.53
28 46 21 17-2008	EA	10" 120 Volt AC Alarm Bell (System Sensor SSV120-10)	148.74	40.53

28 46 21 17-2009 Device Bases *(28 46 21 17-1821)*

28 46 21 17-2010	EA	High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S)	93.75	13.33
28 46 21 17-2011	EA	Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR)	90.96	13.33
28 46 21 17-2012	EA	Intelligent Isolator Base (System Sensor B224BI)	75.91	13.33
28 46 21 17-2013	EA	Intelligent Relay Base (System Sensor B224RB)	76.65	13.33
28 46 21 17-2014	EA	Flangeless, Intelligent Detector Base (System Sensor B501)	49.86	13.33

28 46 21 17-2015 Boxes, Plates And Decals *(28 46 21 17-1821)*

28 46 21 17-2016	EA	Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP)	43.69	13.33
28 46 21 17-2017	EA	Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP)	82.02	16.00
28 46 21 17-2018	EA	120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K)	45.40	13.33
28 46 21 17-2019	EA	Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB)	65.54	13.33
28 46 21 17-2020	EA	White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW)	70.89	13.33
28 46 21 17-2021	EA	White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW)	65.54	13.33
28 46 21 17-2022	EA	Red Retrofit Plate (System Sensor RFP)	31.01	8.00
28 46 21 17-2023	EA	White Retrofit Plate (System Sensor RFPW)	30.79	8.00
28 46 21 17-2024	EA	Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB)	56.25	13.33
28 46 21 17-2025	EA	Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC)	62.64	13.33
28 46 21 17-2026	EA	Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCRL)	45.85	13.33
28 46 21 17-2027	EA	White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCWL)	45.85	13.33
28 46 21 17-2028	EA	Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBRL)	40.42	13.33
28 46 21 17-2029	EA	Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPRL)	44.51	13.33
28 46 21 17-2030	EA	White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPWL)	44.51	13.33
28 46 21 17-2031	EA	White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBWL)	40.42	13.33
28 46 21 17-2032	EA	Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500)	43.17	13.33
28 46 21 17-2033	EA	Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600)	40.61	13.33
28 46 21 17-2034	EA	Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS)	14.92	5.33
28 46 21 17-2035	EA	Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R)	21.04	
28 46 21 17-2036	EA	Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC)	28.94	
28 46 21 17-2037	EA	White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W)	21.04	
28 46 21 17-2038	EA	White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC)	28.94	

28 46 21 17-2039 Chimes *(28 46 21 17-1821)*

28 46 21 17-2040	EA	Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL)	129.72	40.00
28 46 21 17-2041	EA	White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL)	127.19	40.00

28 46 21 17-2042 Chime/Strobes *(28 46 21 17-1821)*

28 46 21 17-2043	EA	Red, 15, 15/75, 30, 75 , 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL)	176.61	40.00
28 46 21 17-2044	EA	White, 15, 15/75, 30, 75 , 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL)	176.61	40.00

28 46 21 17-2045 Carbon Monoxide Detectors *(28 46 21 17-1821)*

28 46 21 17-2046	EA	Conventional Carbon Monoxide Detector (System Sensor CO1224)	218.25	53.33
28 46 21 17-2047	EA	Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR)	175.13	40.00
28 46 21 17-2048	EA	CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE)	15.16	5.33

28 46 21 17-2049 Switches *(28 46 21 17-1821)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2050	EA	SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1)	152.67	21.33
28 46 21 17-2051	EA	Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2)	169.40	21.33
28 46 21 17-2052	EA	SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1)	152.67	21.33
28 46 21 17-2053	EA	Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2)	169.40	21.33
28 46 21 17-2054	EA	Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2)	158.62	21.33
28 46 21 17-2055	EA	Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2)	148.96	21.33
28 46 21 17-2056		**Low Frequency Sounders** *(28 46 21 17-1821)*		
28 46 21 17-2057	EA	Red, Low Frequency Sounder (System Sensor HR-LF)	160.43	40.00
28 46 21 17-2058	EA	White, Low Frequency Sounder (System Sensor HW-LF)	160.43	40.00
28 46 21 17-2059		**Sync Modules** *(28 46 21 17-1821)*		
28 46 21 17-2060	EA	Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R)	125.80	26.67
28 46 21 17-2061	EA	White, 12/24 Volt DC, Sync Module (System Sensor MDL3W)	123.94	26.67
28 46 21 17-2062		**Relays** *(28 46 21 17-1821)*		
28 46 21 17-2063	EA	Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E)	74.04	21.33
28 46 21 17-2064	EA	SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T)	47.56	13.33
28 46 21 17-2065	EA	4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E)	127.01	13.33
28 46 21 17-2066	EA	4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T)	95.05	13.33
28 46 21 17-2067	EA	Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E)	79.02	21.33
28 46 21 17-2068	EA	DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T)	48.89	13.33
28 46 21 17-2069	EA	4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E)	142.25	13.33
28 46 21 17-2070	EA	4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T)	107.87	13.33
28 46 21 17-2071	EA	18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1)	42.13	13.33
28 46 21 17-2072	EA	10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2)	42.13	13.33
28 46 21 17-2073	EA	Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3)	42.13	13.33
28 46 21 17-2074		**Remote Annunciator** *(28 46 21 17-1821)*		
28 46 21 17-2075	EA	Remote Annunciator (System Sensor RA100Z)	103.40	40.00
28 46 21 17-2076	EA	Remote LED Annunciator (System Sensor RA100ZA)	99.99	40.00
28 46 21 17-2077		**Remote Test Station** *(28 46 21 17-1821)*		
28 46 21 17-2078	EA	Remote Test Station With Key (System Sensor RTS151KEY)	151.71	40.00
28 46 21 17-2079		**Fire Alarm Digital Cellular Communicator** *(28 46 21 17)*		
28 46 21 17-2080	EA	Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS)	511.22	53.33
28 46 21 17-2081		**Wheelock Fire Alarm** *(28 46 21 17)*		
28 46 21 17-2082		**Ceiling Mounted Chimes/Strobes** *(28 46 21 17-2081)*		
28 46 21 17-2083	EA	White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW)	235.82	40.00
28 46 21 17-2084		**Wall Mounted Chimes/Strobes** *(28 46 21 17-2081)*		
28 46 21 17-2085	EA	Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR)	235.82	40.00
28 46 21 17-2086	EA	White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW)	235.82	40.00
28 46 21 17-2087		**Ceiling Mounted Horns/Strobes** *(28 46 21 17-2081)*		
28 46 21 17-2088	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC)	151.64	40.00
28 46 21 17-2089	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC)	148.00	40.00
28 46 21 17-2090		**Wall Mounted Horns/Strobes** *(28 46 21 17-2081)*		
28 46 21 17-2091	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR)	154.97	40.00
28 46 21 17-2092	EA	Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR)	197.56	40.00
28 46 21 17-2093	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	174.01	40.00
28 46 21 17-2094	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW)	174.01	40.00
28 46 21 17-2095	EA	Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR)	188.27	40.00
28 46 21 17-2096	EA	Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR)	173.96	40.00
28 46 21 17-2097	EA	Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR)	172.00	40.00
28 46 21 17-2098	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR)	189.72	45.33
28 46 21 17-2099	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR)	154.19	40.00
28 46 21 17-2100	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	154.19	40.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2101		**Ceiling Mounted Strobes** *(28 46 21 17-2081)*		
28 46 21 17-2102	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	144.59	40.00
28 46 21 17-2103	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	144.59	40.00
28 46 21 17-2104	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC)	135.73	40.00
28 46 21 17-2105	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	138.72	40.00
28 46 21 17-2106		**Wall Mounted Strobes** *(28 46 21 17-2081)*		
28 46 21 17-2107	EA	Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR)	221.34	40.00
28 46 21 17-2108	EA	Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	177.09	40.00
28 46 21 17-2109	EA	Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	161.46	40.00
28 46 21 17-2110	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR)	143.03	40.00
28 46 21 17-2111	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW)	143.03	40.00
28 46 21 17-2112	EA	Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR)	153.21	40.00
28 46 21 17-2113	EA	Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR) Note: Requires WPSBB-R.	159.57	45.33
28 46 21 17-2114	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR)	139.70	40.00
28 46 21 17-2115	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW)	139.70	40.00
28 46 21 17-2116		**Ceiling Mounted Speakers/Strobes** *(28 46 21 17-2081)*		
28 46 21 17-2117	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	177.09	40.00
28 46 21 17-2118	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	177.09	40.00
28 46 21 17-2119	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW)	177.09	40.00
28 46 21 17-2120	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	179.05	40.00
28 46 21 17-2121	EA	White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCCH-FW)	190.01	40.00
28 46 21 17-2122	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW)	205.28	40.00
28 46 21 17-2123		**Wall Mounted Speakers/Strobes** *(28 46 21 17-2081)*		
28 46 21 17-2124	EA	Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR)	215.09	40.00
28 46 21 17-2125	EA	White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW)	215.09	40.00
28 46 21 17-2126	EA	Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCCH-FR)	190.01	40.00
28 46 21 17-2127	EA	White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCCH-FW)	190.01	40.00
28 46 21 17-2128	EA	Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR)	177.09	40.00
28 46 21 17-2129	EA	White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW)	173.96	40.00
28 46 21 17-2130	EA	Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR)	190.01	40.00
28 46 21 17-2131	EA	White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW)	190.01	40.00
28 46 21 17-2132	EA	Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR)	213.03	40.00
28 46 21 17-2133	EA	Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR)	179.05	40.00
28 46 21 17-2134	EA	White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW)	177.48	40.00
28 46 21 17-2135	EA	Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	208.38	40.00
28 46 21 17-2136	EA	White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW)	213.03	40.00
28 46 21 17-2137	EA	Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR)	205.28	40.00
28 46 21 17-2138	EA	White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW)	205.28	40.00
28 46 21 17-2139	EA	Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe/(Wheelock ET70WP-2475 W-FR) Note: Requires weatherproof backbox (IOB).	232.46	45.33
28 46 21 17-2140		**Electric Alarm Bells** *(28 46 21 17-2081)*		
28 46 21 17-2141	EA	6", 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R)	172.39	40.00
28 46 21 17-2142	EA	6", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R)	166.13	40.00
28 46 21 17-2143	EA	10", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R)	208.03	40.00
28 46 21 17-2144	EA	115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSX10-115-R)	1,653.71	45.33
28 46 21 17-2145	EA	Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSXG10-115-R)	2,674.86	45.33
28 46 21 17-2146	EA	Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CVXG10-115-R)	2,127.44	45.33
28 46 21 17-2147	EA	6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R)	136.96	40.00
28 46 21 17-2148	EA	10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R)	157.29	40.00
28 46 21 17-2149		**Horns** *(28 46 21 17-2081)*		
28 46 21 17-2150	EA	Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non Sync Horn (Wheelock AH-24WP-R)	121.24	40.00
28 46 21 17-2151	EA	Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR)	114.92	40.00
28 46 21 17-2152	EA	White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW)	114.92	40.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2153	EA	Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNRC)	115.78	40.00
28 46 21 17-2154	EA	White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNWC)	115.78	40.00
28 46 21 17-2155	EA	Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R)	101.29	40.00
28 46 21 17-2156	EA	White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W)	101.29	40.00
28 46 21 17-2157	EA	Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R)	115.78	40.00

28 46 21 17-2158 Speakers *(28 46 21 17-2081)*

28 46 21 17-2159	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R)	118.28	40.00
28 46 21 17-2160	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W)	118.28	40.00
28 46 21 17-2161	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R)	118.28	40.00
28 46 21 17-2162	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W)	116.56	40.00
28 46 21 17-2163	EA	Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R)	118.28	40.00
28 46 21 17-2164	EA	White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W)	118.28	40.00
28 46 21 17-2165	EA	Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R)	118.28	40.00
28 46 21 17-2166	EA	White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W)	118.28	40.00
28 46 21 17-2167	EA	Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R)	137.16	40.00
28 46 21 17-2168	EA	White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W)	137.16	40.00
28 46 21 17-2169	EA	White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W)	138.72	40.00
28 46 21 17-2170	EA	Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R)	156.92	40.00
28 46 21 17-2171	EA	Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R)	143.91	40.00
28 46 21 17-2172	EA	Grey, 1 To 15 Watt, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15S)	260.10	40.00
28 46 21 17-2173	EA	Red, 1 To 15 Watt, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15SR)	260.10	40.00

28 46 21 17-2174 Sync Modules *(28 46 21 17-2081)*

28 46 21 17-2175	EA	12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R)	133.77	26.67

28 46 21 17-2176 Boxes, Plates And Rings *(28 46 21 17-2081)*

28 46 21 17-2177	EA	4" Square, Red, Surface Backbox (Wheelock BB-R)	35.24	13.33
28 46 21 17-2178	EA	Standard 4" Square Box (Wheelock BB-STD)	32.47	13.33
28 46 21 17-2179	EA	Black, Backbox For UZC-256 (Wheelock BB-UZC)	173.37	26.67
28 46 21 17-2180	EA	Red, Backbox For UZC-256 (Wheelock BB-UZC-R)	173.37	26.67
28 46 21 17-2181	EA	9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP)	134.09	21.33
28 46 21 17-2182	EA	Red, Extender Ring For E60 Series (Wheelock E60EXT-R)	18.34	5.33
28 46 21 17-2183	EA	White, Extender Ring For E60 Series (Wheelock E60EXT-W)	18.34	5.33
28 46 21 17-2184	EA	Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R)	44.52	13.33
28 46 21 17-2185	EA	White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W)	42.02	13.33
28 46 21 17-2186	EA	Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R)	44.52	13.33
28 46 21 17-2187	EA	White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W)	44.52	13.33
28 46 21 17-2188	EA	4" Square Backbox (Wheelock DBB-R)	36.85	13.33
28 46 21 17-2189	EA	Red, Surface Backbox (Wheelock IOB-R)	42.88	13.33
28 46 21 17-2190	EA	White, Surface, Backbox (Wheelock IOB-W)	42.88	13.33
28 46 21 17-2191	EA	White, Indoor, Surface Extender (Wheelock ISP2-W)	17.52	5.33
28 46 21 17-2192	EA	Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R)	19.44	5.33
28 46 21 17-2193	EA	White, RS/RSS Strobe Trim Plate (Wheelock NATP-W)	19.44	5.33
28 46 21 17-2194	EA	Red Retrofit Plate (Wheelock RP-R)	20.85	5.33
28 46 21 17-2195	EA	4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4)	29.47	5.33
28 46 21 17-2196	EA	Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R)	44.92	13.33
28 46 21 17-2197	EA	White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W)	45.46	13.33
28 46 21 17-2198	EA	Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R)	48.36	13.33
28 46 21 17-2199	EA	Red, Semi-Flush Plate (Wheelock SFB-R)	20.21	5.33
28 46 21 17-2200	EA	White, Semi-Flush Plate (Wheelock SFB-W)	20.21	5.33
28 46 21 17-2201	EA	Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R)	39.47	13.33
28 46 21 17-2202	EA	White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W)	39.47	13.33
28 46 21 17-2203	EA	Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R)	26.02	5.33
28 46 21 17-2204	EA	Red, Weather Resistant Backbox (Wheelock WBB-R)	44.21	13.33
28 46 21 17-2205	EA	Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R)	31.97	5.33
28 46 21 17-2206	EA	White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W)	31.97	5.33
28 46 21 17-2207	EA	Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R)	31.97	5.33
28 46 21 17-2208	EA	White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W)	31.97	5.33
28 46 21 17-2209	EA	Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT)	18.81	5.33
28 46 21 17-2210	EA	Weather Resistant Backbox For ASWP (Wheelock WPBB-R)	46.89	13.33
28 46 21 17-2211	EA	Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R)	43.62	13.33

28 46 21 17-2212 Manual Pull Station *(28 46 21 17-2081)*

28 46 21 17-2213	EA	SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100)	101.21	26.67
28 46 21 17-2214	EA	SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200)	101.21	26.67
28 46 21 17-2215	EA	Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X)	776.30	26.67

28 46 21 17-2216 Potter Fire Alarm *(28 46 21 17)*

28 46 21 17-2217 Electric Alarm Bells *(28 46 21 17-2216)*

28 46 21 17-2218	EA	6" Alarm Bell, 12 Volt DC (Potter MBA-6-12)	104.80	40.00
28 46 21 17-2219	EA	8" Alarm Bell, 12 Volt DC (Potter MBA-8-12)	112.63	40.00
28 46 21 17-2220	EA	10" Alarm Bell, 12 Volt DC (Potter MBA-10-12)	116.55	40.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 21 17-2221	EA	6" Alarm Bell, 24 Volt DC (Potter MBA-6-24)	104.80	40.00
28 46 21 17-2222	EA	8" Alarm Bell, 24 Volt DC (Potter MBA-8-24)	112.63	40.00
28 46 21 17-2223	EA	10" Alarm Bell, 24 Volt DC (Potter MBA-10-24)	116.55	40.00
28 46 21 17-2224	EA	6" Alarm Bell, 24 Volt AC (Potter PBA246)	111.45	40.00
28 46 21 17-2225	EA	8" Alarm Bell, 24 Volt AC (Potter PBA248)	115.21	40.00
28 46 21 17-2226	EA	10" Alarm Bell, 24 Volt AC (Potter PBA2410)	137.36	40.00
28 46 21 17-2227	EA	6" Alarm Bell, 120 Volt AC (Potter PBA1206)	105.93	40.00
28 46 21 17-2228	EA	8" Alarm Bell, 120 Volt AC (Potter PBA1208)	115.21	40.00
28 46 21 17-2229	EA	10" Alarm Bell, 120 Volt AC (Potter PBA12010)	122.97	40.00

28 46 21 17-2230 Manual Pull Station *(28 46 21 17-2216)*

28 46 21 17-2231	EA	SPST, Single Action, Manual Pull Station (Potter P32-1T)	75.54	26.67
28 46 21 17-2232	EA	DPST, Single Action, Manual Pull Station (Potter RMS-2T)	79.10	26.67
28 46 21 17-2233	EA	DPST, Single Action, Manual Pull Station (Potter RMS-6T)	119.14	26.67
28 46 21 17-2234	EA	DPST, Single Action, Key Reset Manual Pull Station (Potter RMS-1T-KL)	81.31	26.67
28 46 21 17-2235	EA	SPST, Dual Action, Manual Pull Station (Potter P32-1T-LP)	77.56	26.67
28 46 21 17-2236	EA	SPST, Weather Proof, Manual Pull Station (Potter RMS-1T-WP)	131.66	26.67
28 46 21 17-2237	EA	SPST, Weather Proof Dual Action, Manual Pull Station (Potter RMS-1T-WP-LP)	161.54	26.67

28 46 21 17-2238 Fire Alarm Terminal Cabinets *(28 46 21 17)*

28 46 21 17-2239	EA	18 Point Lockable Fire Alarm Terminal Cabinet	190.38	53.43
28 46 21 17-2240	EA	32 Point Lockable Fire Alarm Terminal Cabinet	240.51	53.43
28 46 21 17-2241	EA	64 Point Lockable Fire Alarm Terminal Cabinet	340.75	53.43
28 46 21 17-2242	EA	128 Point Lockable Fire Alarm Terminal Cabinet	440.97	53.43

28 46 21 17-2243 Test And Certification Of Fire Alarm System *(28 46 21 17)*

28 46 21 17-2244	DAY	Test And Certification Of Fire Alarm System To Tie Into Existing Systems	847.14	
28 46 21 17-2245	HR	Test And Certification Of Fire Alarm System	264.73	

28 46 21 17-2246 Programming Of Fire Alarm System *(28 46 21 17)*

28 46 21 17-2247	HR	Programming Of Fire Alarm System	317.68	

28 46 21 17-2248 Kidde Fire Safety Equipment *(28 46 21 17)*

28 46 21 17-2249 Smoke Detectors *(28 46 21 17-2248)*

28 46 21 17-2250	EA	Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With Battery Back-up (Kidde i12010SCO)	125.01	40.00
28 46 21 17-2251	EA	Combination Smoke And Carbon Monoxide Detector, With Battery Back-up (Kidde P3010K-CO)	99.51	40.00

28 46 23 Fire Alarm Notification Appliances *(28 46)*

28 46 23 11 Fire Alarm Horns and Strobes *(28 46 23)*

See CSI section 28 46 21 17-0000 for fire alarm horns and strobes.

28 46 23 13 Fire Alarm Speakers *(28 46 23)*

See CSI section 28 46 21 17-0000 for fire alarm speakers.

28 47 Mass Notification *(28 40)*

28 47 15 Mass Notification Control Panels *(28 47)*

28 47 15 00-0001 Central Station Controls *(28 47 15)*

28 47 15 00-0002	EA	Desktop 18 Function Base Station Control/Encoder (Whelen E747)	617.26	
28 47 15 00-0003	EA	Desktop 35 Function Base Station Control/Encoder (Whelen E969)	1,000.19	
28 47 15 00-0004	EA	Desktop Central Station Control Encoder/Decoder (Whelen E2010)	2,908.91	
28 47 15 00-0005	EA	Siren Status Printer And Cable Option For E2010 (Whelen E2010P)	919.61	26.67
28 47 15 00-0006	EA	Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R)	3,353.43	26.67
28 47 15 00-0007	EA	Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK)	517.41	26.67
28 47 15 00-0008	EA	Option To Convert Activation Controls To FSK Format (Whelen FSKCEO)	556.07	26.67

28 47 17 Notification Devices and Methods *(28 47)*

28 47 17 17 Notification Appliances and Methods Public Methods *(28 47 17)*

28 47 17 17-0001 Voice Capable Omni-Directional Speakers *(28 47 17 17)*

28 47 17 17-0002	EA	1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	9,308.05	692.32
28 47 17 17-0003	EA	2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	11,237.39	722.42
28 47 17 17-0004	EA	3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	13,143.24	752.52
28 47 17 17-0005	EA	4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	15,049.10	782.62
28 47 17 17-0006	EA	5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	17,001.93	812.72
28 47 17 17-0007	EA	6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	20,246.86	842.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0008	EA	7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A)	22,176.20	872.92
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0009	EA	8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A)	24,489.25	903.02
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0010	EA	9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A)	26,395.09	933.12
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0011	EA	10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A)	28,324.43	963.22
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0012	EA	3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003)	19,542.08	842.82
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0013	EA	4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004)	20,790.13	872.92
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0014	EA	One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL)	364.76	26.67
28 47 17 17-0015	EA	VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV)	1,400.24	26.67
28 47 17 17-0016	EA	UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU)	1,400.24	26.67
28 47 17 17-0017	EA	UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU)	1,267.12	26.67
28 47 17 17-0018	EA	VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV)	1,227.97	26.67
28 47 17 17-0019	EA	Two-Tone Sequential Option (Whelen WPSTT)	338.00	26.67
28 47 17 17-0020	EA	Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS)	429.42	26.67
28 47 17 17-0021	EA	Landline, 10 Digit DTMF (Whelen C2030LL)	445.77	26.67
28 47 17 17-0022	EA	VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV)	1,988.68	26.67
28 47 17 17-0023	EA	UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU)	1,533.37	26.67
28 47 17 17-0024	EA	UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU)	1,533.37	26.67
28 47 17 17-0025	EA	VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV)	1,533.37	26.67
28 47 17 17-0026	EA	Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD)	556.07	26.67
28 47 17 17-0027	EA	Cabinet Window LED Status Indicator (Whelen STATUS)	388.50	26.67
28 47 17 17-0028	EA	Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT)	280.02	26.67
28 47 17 17-0029	EA	Intrusion Alarm (Whelen INTRUWPS)	215.36	26.67
28 47 17 17-0030	EA	Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG)	141.96	
28 47 17 17-0031	EA	Whelen Library Messages (Whelen MSGPROGL)	28.43	
28 47 17 17-0032	EA	Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC)	122.08	26.67
28 47 17 17-0033	EA	One Pair Of Whelen Approved Batteries (Whelen WPSBATT)	731.52	40.00
28 47 17 17-0034	EA	WPS And OA Series, Roof Top Mounted (Whelen RTM)	7,417.87	662.22
28 47 17 17-0035	EA	Two 80 Watt Panels, Solar Power System (Whelen SBC280)	2,880.68	159.99
		Note: Includes mounting bracket and regulator.		
28 47 17 17-0036	EA	Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA)	1,442.57	40.00
28 47 17 17-0037	EA	Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB)	1,442.57	40.00
28 47 17 17-0038	EA	Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC)	1,442.57	40.00
28 47 17 17-0039	EA	Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG)	1,442.57	40.00
28 47 17 17-0040	EA	Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR)	1,442.57	40.00
28 47 17 17-0041	EA	Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4)	546.76	40.00
28 47 17 17-0042	EA	Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4)	546.76	40.00
28 47 17 17-0043	EA	Red, 24 Volt DC, LED, Beacon (Whelen L31HRF4)	546.76	40.00
28 47 17 17-0044	EA	Amber, 24 Volt DC, Strobe (Whelen ISB24A)	431.55	40.00
28 47 17 17-0045	EA	Blue, 24 Volt DC, Strobe (Whelen ISB24B)	431.55	40.00
28 47 17 17-0046	EA	Clear, 24 Volt DC, Strobe (Whelen ISB24C)	431.55	40.00
28 47 17 17-0047	EA	Green, 24 Volt DC, Strobe (Whelen ISB24G)	431.55	40.00
28 47 17 17-0048	EA	Red, 24 Volt DC, Strobe (Whelen ISB24R)	431.55	40.00
28 47 17 17-0049	EA	Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS)	564.69	26.67
28 47 17 17-0050	EA	Strobe Controller (Whelen STCTRL)	449.49	26.67
28 47 17 17-0051	EA	LED Controller (Whelen LEDCTRL)	449.49	26.67
28 47 17 17-0052	EA	Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL)	286.25	40.00
28 47 17 17-0053	EA	Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS)	415.50	
28 47 17 17-0054	EA	400 Watt Speaker Driver (Whelen SPKDRV)	618.95	26.67
28 47 17 17-0055	EA	Cabinet Window LED Status Indicator (Whelen STATUS)	316.44	26.67
28 47 17 17-0056	EA	Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC)	122.08	26.67
28 47 17 17-0057	EA	Notifier/Whelen Interface Board (Whelen NAUXCS)	612.26	26.67

28 47 17 17-0058 Tone Only, Omni-Alert Sirens *(28 47 17 17)*

28 47 17 17-0059	EA	One Cell, Tone Only, Omni-Alert Siren (Whelen OA1)	7,629.30	662.22
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0060	EA	Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2)	9,386.36	692.32
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0061	EA	Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3)	11,127.76	722.42
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0062	EA	Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4)	12,908.32	752.52
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0063	EA	One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUXIN)	211.51	26.67
28 47 17 17-0064	EA	One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL)	364.76	26.67
28 47 17 17-0065	EA	VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV)	1,400.24	26.67
28 47 17 17-0066	EA	UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU)	1,400.24	26.67
28 47 17 17-0067	EA	UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU)	1,267.12	26.67
28 47 17 17-0068	EA	VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV)	1,227.97	26.67
28 47 17 17-0069	EA	One-Way Control Two-Tone Sequential Option (Whelen OTT)	296.38	26.67
28 47 17 17-0070	EA	Two Way Controls, Contact Closure Activation Board (Whelen OAUXCS)	449.57	26.67
28 47 17 17-0071	EA	Two Way Landline Activation (Whelen OC2030LL)	466.80	26.67
28 47 17 17-0072	EA	VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV)	1,533.37	26.67
28 47 17 17-0073	EA	UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU)	1,533.37	26.67
28 47 17 17-0074	EA	UHF, 10 Digit DTMF (Whelen OC230WU)	1,533.37	26.67
28 47 17 17-0075	EA	VHF High Band, 10 Digit DTMF (Whelen OC230WV)	1,533.37	26.67
28 47 17 17-0076	EA	Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD)	556.07	26.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0077	EA	Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT)	280.02	26.67
28 47 17 17-0078	EA	Cabinet Window LED Status Indicator (Whelen OSTATUS)	316.44	26.67
28 47 17 17-0079	EA	Intrusion Alarm (Whelen OINTRU)	175.22	26.67
28 47 17 17-0080	EA	80 Watt Solar Power Option (Whelen OSBC280)	2,880.68	159.99
28 47 17 17-0081	EA	One Pair Of Whelen Approved Batteries For Omnialert (Whelen BSETO)	635.95	40.00

28 47 17 17-0082 Tone-Only Rotating Directional Speakers *(28 47 17 17)*

28 47 17 17-0083	EA	3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	15,205.72	782.62
28 47 17 17-0084	EA	4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	16,109.21	812.72
28 47 17 17-0085	EA	Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN)	203.47	26.67
28 47 17 17-0086	EA	Landline, 10 Digit DTMF (Whelen VD2030LL)	381.44	26.67
28 47 17 17-0087	EA	VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV)	1,400.24	26.67
28 47 17 17-0088	EA	UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU)	1,400.24	26.67
28 47 17 17-0089	EA	UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU)	1,267.12	26.67
28 47 17 17-0090	EA	VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV)	1,227.97	26.67
28 47 17 17-0091	EA	Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT)	296.38	26.67
28 47 17 17-0092	EA	Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS)	440.96	26.67
28 47 17 17-0093	EA	Landline, 10 Digit DTMF (Whelen VC2030LL)	466.80	26.67
28 47 17 17-0094	EA	VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV)	1,533.37	26.67
28 47 17 17-0095	EA	UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU)	1,533.37	26.67
28 47 17 17-0096	EA	UHF, 10 Digit DTMF (Whelen VC230WU)	1,533.37	26.67
28 47 17 17-0097	EA	VHF High Band, 10 Digit DTMF (Whelen VC230WV)	1,533.37	26.67
28 47 17 17-0098	EA	Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD)	556.07	26.67
28 47 17 17-0099	EA	Cabinet Window LED Status Indicator (Whelen VSTATUS)	330.54	26.67
28 47 17 17-0100	EA	Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT)	280.02	26.67
28 47 17 17-0101	EA	Vortex Intrusion Alarm (Whelen VINTRU)	175.22	26.67
28 47 17 17-0102	EA	Speaker Pole Top Bracket (Whelen VPTB)	449.57	26.67
28 47 17 17-0103	EA	80 Watt Solar Power Option (Whelen VSBC280)	2,880.68	159.99
28 47 17 17-0104	EA	One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR)	635.95	40.00
28 47 17 17-0105	EA	Program Charge For Custom VROM Message (Whelen VPROG)	2,298.72	

28 47 17 17-0106 Uni-Directional Rotating Speakers *(28 47 17 17)*

28 47 17 17-0107	EA	118 dB, Uni-Directional Rotating Speaker (Whelen HORNET)	9,903.20	692.32
28 47 17 17-0108	EA	One Way Contact Closure Activation Control Board (Whelen HAUXIN)	203.47	26.67
28 47 17 17-0109	EA	Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL)	381.44	26.67
28 47 17 17-0110	EA	VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV)	1,400.24	26.67
28 47 17 17-0111	EA	UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU)	1,400.24	26.67
28 47 17 17-0112	EA	UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU)	1,267.12	26.67
28 47 17 17-0113	EA	VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV)	1,227.97	26.67
28 47 17 17-0114	EA	Two-Tone Sequential Option For Hornet (Whelen HORTT)	309.40	26.67
28 47 17 17-0115	EA	Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS)	421.24	26.67
28 47 17 17-0116	EA	Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL)	445.77	26.67
28 47 17 17-0117	EA	VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV)	1,533.37	26.67
28 47 17 17-0118	EA	UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU)	1,533.37	26.67
28 47 17 17-0119	EA	UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU)	1,533.37	26.67
28 47 17 17-0120	EA	VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV)	1,533.37	26.67
28 47 17 17-0121	EA	Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD)	556.07	26.67
28 47 17 17-0122	EA	LED Status Indicator (Whelen HSTATUS)	316.44	26.67
28 47 17 17-0123	EA	Option For Paging Interface (Whelen HPGINT)	280.02	26.67
28 47 17 17-0124	EA	Intrusion Alarm (Whelen HINTRU)	175.22	26.67
28 47 17 17-0125	EA	Solar Power Option (Whelen HSBC280)	2,880.68	159.99
28 47 17 17-0126	EA	Pole Top Bracket For Speaker (Whelen HPTB)	443.54	26.67
28 47 17 17-0127	EA	One Pair Of Whelen Approved Batteries (Whelen BSETF)	635.95	40.00

28 47 17 17-0128 All Hazard In-Plant Personnel Warning System *(28 47 17 17)*

28 47 17 17-0129	EA	400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400)	5,026.87	853.28
28 47 17 17-0130	EA	800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800)	6,062.44	959.95
28 47 17 17-0131	EA	15 Watt, Wide Angle Speaker (Whelen WS15T)	290.33	40.00
28 47 17 17-0132	EA	Recess Mounted, 15 Watt Speaker (Whelen WS15TR)	278.44	40.00
28 47 17 17-0133	EA	With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN)	516.28	40.00
28 47 17 17-0134	EA	30 Watt, Wide Angle Speaker (Whelen WS30T)	357.97	40.00
28 47 17 17-0135	EA	60 Watt, Wide Angle Speaker (Whelen WS60T)	705.81	40.00
28 47 17 17-0136	EA	Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T)	1,132.17	45.33
28 47 17 17-0137	EA	100 Watt, Wide Angle Speaker (Whelen WS100)	456.08	40.00
28 47 17 17-0138	EA	Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH)	704.59	45.33
28 47 17 17-0139	EA	Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU)	175.22	26.67

28 47 17 17-0140 Firehouse Siren *(28 47 17 17)*

28 47 17 17-0141	EA	Auxiliary Board Contact Closure (Whelen FAUXIN)	203.47	26.67
28 47 17 17-0142	EA	Two-Tone Sequential Option (Whelen FTT)	296.38	26.67
28 47 17 17-0143	EA	Auxiliary/Status Control Board (Whelen FAUXCS)	440.96	26.67
28 47 17 17-0144	EA	Landline, 10 Digit DTMF (Whelen FC2030LL)	445.77	26.67
28 47 17 17-0145	EA	VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV)	1,533.37	26.67
28 47 17 17-0146	EA	UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU)	1,533.37	26.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0147	EA	UHF, 10 Digit DTMF (Whelen FC230WU)	1,533.37	26.67
28 47 17 17-0148	EA	VHF High Band, 10 Digit DTMF (Whelen FC230WV)	1,533.37	26.67
28 47 17 17-0149	EA	Paging Interface Control Option (Whelen FPGINT)	280.02	26.67
28 47 17 17-0150	EA	Intrusion Alarm Control Option (Whelen FINTRU)	175.22	26.67
28 47 17 17-0151	EA	Solar Power Option (Whelen FSBC280) Note: Two 80 watt panels, with brackets and solar regulator.	2,880.68	159.99

28 47 17 17-0152 Alert Monitor And Message Display *(28 47 17 17)*

28 47 17 17-0153	EA	Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H)	1,282.78	26.67
28 47 17 17-0154	EA	Alert Monitor VHF High-Narrow Band (Whelen V2000NH)	1,282.78	26.67
28 47 17 17-0155	EA	Alert Monitor UHF Narrow-Band (Whelen V2000NU)	1,282.78	26.67
28 47 17 17-0156	EA	Alert Monitor With Radio Receiver UHF (Whelen V2000U)	1,282.78	26.67
28 47 17 17-0157	EA	Internal Battery And Charger For VA2000 Series (Whelen VA2BATT)	189.25	40.00
28 47 17 17-0158	EA	Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG)	61.51	26.67
28 47 17 17-0159	EA	Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA)	105.54	
28 47 17 17-0160	EA	Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB)	165.75	

28 47 17 17-0161 Portable Test Set *(28 47 17 17)*

28 47 17 17-0162	EA	VHF High Band, Portable Test Set (Whelen PT2010H)	5,113.58	
28 47 17 17-0163	EA	VHF Low Band, Portable Test Set (Whelen PT2010L)	5,113.58	
28 47 17 17-0164	EA	UHF, Portable Test Set (Whelen PT2010U)	5,113.58	

28 47 17 17-0165 Replacement Warning Lights *(28 47 17 17)*

28 47 17 17-0166	EA	Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA)	287.49	42.67
28 47 17 17-0167	EA	Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB)	287.49	42.67
28 47 17 17-0168	EA	Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC)	287.49	42.67
28 47 17 17-0169	EA	Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG)	287.49	42.67
28 47 17 17-0170	EA	Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR)	287.49	42.67
28 47 17 17-0171	EA	Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA)	307.55	42.67
28 47 17 17-0172	EA	Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB)	207.21	42.67
28 47 17 17-0173	EA	Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC)	304.58	42.67
28 47 17 17-0174	EA	Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG)	304.58	42.67
28 47 17 17-0175	EA	Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR)	304.58	42.67
28 47 17 17-0176	EA	Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA)	287.49	42.67
28 47 17 17-0177	EA	Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB)	287.49	42.67
28 47 17 17-0178	EA	Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC)	287.49	42.67
28 47 17 17-0179	EA	Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG)	287.49	42.67
28 47 17 17-0180	EA	Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR)	287.49	42.67
28 47 17 17-0181	EA	Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA)	319.45	42.67
28 47 17 17-0182	EA	Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB)	319.45	42.67
28 47 17 17-0183	EA	Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC)	214.65	42.67
28 47 17 17-0184	EA	Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG)	214.65	42.67
28 47 17 17-0185	EA	Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR)	214.65	42.67

28 47 17 17-0186 Antenna *(28 47 17 17)*

28 47 17 17-0187	EA	50' Antenna Cable (Honeywell Ademco 7626-50HC)	207.72	
28 47 17 17-0188	EA	External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB)	203.83	
28 47 17 17-0189	EA	80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000)	9,692.14	

28 49 Electronic Personal Protection Systems *(28 40)*

28 49 11 Electronic Personal Safety Detection Systems *(28 49)*

28 49 11 00-0001 Personnel Alarm Locating System *(28 49 11)*

Note: Includes a central computer, 17" VGA color monitor, keyboard and mouse, personal alarm locating software, a printer, interface cards and panels, eighty (80) personal alarm transmitters with lithium batteries, eighty (80) lapel readers, two hundred fifty (250) IR locators, twenty one (21) repeaters and receivers, back boxes, cables.

28 49 11 00-0002	EA	Personnel Alarm Locating System Note: Includes Pentium III central computer, 17" VGA color monitor, keyboard and mouse, personal alarm locating software, a printer, interface cards and panels.	15,616.73	856.26
28 49 11 00-0003	EA	Personnel Alarm Transmitters With Lithium Batteries	120.50	
28 49 11 00-0004	EA	Lapel Reader	46.35	
28 49 11 00-0005	EA	IR Locator	184.60	32.06
28 49 11 00-0006	EA	Repeaters And Receivers	464.00	106.86

28 49 17 Electronic Personal Safety Emergency Aid Devices *(28 49)*

28 49 17 00-0001 Electronic Personal Safety Emergency Aid Devices (Edwards Signaling) *(28 49 17)*

28 49 17 00-0002 Call For Assistance Kits, Emergency Aid Devices (Edwards Signaling) *(28 49 17 00-0001)*

28 49 17 00-0003	EA	Pull Cord Call For Assistance Kit With Strobe/Buzzer, Emergency Aid Devices (Edwards Signaling 7008B-N5) Note: Includes 1 high intensity strobe/buzzer (7007B-N5) and 1 emergency pull cord station (6537).	250.88	64.12

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 49 17 00-0004	EA	Push Button Call For Assistance Kit With Strobe/Horn, Emergency Aid Devices (Edwards Signaling 7005-G5) Note: Includes 1 high intensity strobe/horn (6536-G5), 1 emergency pull cord station (6537), and 1 transformer 592.	297.08	74.81
28 49 17 00-0005	EA	Pull Cord Call For Assistance Kit With Strobe/Horn, Emergency Aid Devices (Edwards Signaling 6538-G5) Note: Includes 1 high intensity strobe/horn (6536-G5), 1 wall mounted push button (620/147-10), and 1 transformer 592.	299.02	74.81

28 49 17 00-0006 Audible/Visual Signaling Devices, Emergency Aid Devices (Edwards Signaling) *(28 49 17 00-0001)*

28 49 17 00-0007	EA	High Intensity Strobe/Buzzer, Emergency Aid Devices (Edwards Signaling 7007B-N5)	181.24	40.07
28 49 17 00-0008	EA	High Intensity Strobe/Horn, Emergency Aid Devices (Edwards Signaling 6536-G5)	173.20	32.06
28 49 17 00-0009	EA	Transformer For High Intensity Strobe/Horns, Emergency Aid Devices (Edwards Signaling 592)	88.59	32.06
28 49 17 00-0010	EA	1 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-1N5)	143.15	32.06
28 49 17 00-0011	EA	2 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-2N5)	162.66	32.06
28 49 17 00-0012	EA	4 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-4G5)	182.91	32.06
28 49 17 00-0013	EA	2 Lamp, Dome Station/Buzzer, Emergency Aid Devices (Edwards Signaling 7633-2)	247.99	32.06
28 49 17 00-0014	EA	4 Lamp, Dome Station/Buzzer, Emergency Aid Devices (Edwards Signaling 7633-4)	275.99	32.06

28 49 17 00-0015 Call Activation Devices, Emergency Aid Devices (Edwards Signaling) *(28 49 17 00-0001)*

28 49 17 00-0016	EA	Double Pole Single Throw Switch, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 6537)	113.07	32.06
28 49 17 00-0017	EA	Pushbutton Wall Station/Indicator Lamp With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7603E)	159.58	32.06
28 49 17 00-0018	EA	Pushbutton Wall Station/Indicator Lamp With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7613E)	204.47	32.06
28 49 17 00-0019	EA	3 Maintained Contacts, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7302)	207.86	10.69
28 49 17 00-0020	EA	Bedside Wall Station Receptacle, Emergency Aid Devices (Edwards Signaling 7930)	163.73	32.06
28 49 17 00-0021	EA	Bedside Wall Station Receptacle With Lamp, Emergency Aid Devices (Edwards Signaling 7930L)	190.58	32.06
28 49 17 00-0022	EA	Locking Button, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7932L)	312.94	32.06
28 49 17 00-0023	EA	Pendant Push Button, Emergency Aid Devices (Edwards Signaling 7620)	156.34	32.06
28 49 17 00-0024	EA	Single 6' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7675)	176.48	10.69
28 49 17 00-0025	EA	Double 6' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7676)	270.19	10.69
28 49 17 00-0026	EA	Single 15' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7685)	275.96	10.69
28 49 17 00-0027	EA	Double 15' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7686)	362.02	10.69

END OF SECTION 28

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 Earthwork

31 01 Maintenance of Earthwork *(31)*

31 01 20 Maintenance of Earth Moving *(31 01)*

31 01 20 00-0001 Rip Settling Basins *(31 01 20)*

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR	Rip Light Soil And Sand, By Dozer	623.48	
31 01 20 00-0003	ACR	Rip Light Soil And Sand, By Grader With Rear Ripper	968.62	
31 01 20 00-0004	ACR	Rip Light Soil And Sand, By Rubber Tire Front End Loader	828.61	

31 05 Common Work Results for Earthwork *(31)*

31 05 13 Soils for Earthwork *(31 05)*

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

31 05 13 00-0001 Fill Material (Loose, Purchased Material) *(31 05 13)*

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

31 05 13 00-0002	CY	Bank Run/Fill Sand	26.30	
		For Up To 8, Add	*5.26*	
		For >8 To 16, Add	*2.63*	
		For >48 To 64, Deduct	*-2.04*	
		For >64 To 96, Deduct	*-3.36*	
		For >96, Deduct	*-4.67*	
31 05 13 00-0003	CY	Screened/Washed Filter/Septic Sand	30.37	
		For Up To 8, Add	*6.07*	
		For >8 To 16, Add	*3.04*	
		For >48 To 64, Deduct	*-2.24*	
		For >64 To 96, Deduct	*-3.76*	
		For >96, Deduct	*-5.28*	
31 05 13 00-0004	CY	3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	40.14	
		For Up To 8, Add	*8.03*	
		For >8 To 16, Add	*4.01*	
		For >48 To 64, Deduct	*-2.73*	
		For >64 To 96, Deduct	*-4.74*	
		For >96, Deduct	*-6.75*	
31 05 13 00-0005	CY	3/16" Minus, Screened/Washed Concrete Sand	36.48	
		For Up To 8, Add	*7.30*	
		For >8 To 16, Add	*3.65*	
		For >48 To 64, Deduct	*-2.55*	
		For >64 To 96, Deduct	*-4.37*	
		For >96, Deduct	*-6.20*	
31 05 13 00-0006	CY	3/32" Minus, Screened/Washed Masonry/Mortar Sand	61.71	
		For Up To 8, Add	*12.34*	
		For >8 To 16, Add	*6.17*	
		For >48 To 64, Deduct	*-3.81*	
		For >64 To 96, Deduct	*-6.90*	
		For >96, Deduct	*-9.98*	
31 05 13 00-0007	CY	Common Fill, Native Soil/Dirt	31.59	
		For Up To 8, Add	*6.32*	
		For >8 To 16, Add	*3.16*	
		For >48 To 64, Deduct	*-2.30*	
		For >64 To 96, Deduct	*-3.88*	
		For >96, Deduct	*-5.46*	
31 05 13 00-0008	CY	Lime Rock Screening	29.03	
		For Up To 8, Add	*5.81*	
		For >8 To 16, Add	*2.90*	
		For >48 To 64, Deduct	*-2.18*	
		For >64 To 96, Deduct	*-3.63*	
		For >96, Deduct	*-5.08*	
31 05 13 00-0009	CY	Crushed Lime Rock Maximum 3-1/2"	29.03	
		For Up To 8, Add	*5.81*	
		For >8 To 16, Add	*2.90*	
		For >48 To 64, Deduct	*-2.18*	
		For >64 To 96, Deduct	*-3.63*	
		For >96, Deduct	*-5.08*	
31 05 13 00-0010	CY	Sand/Clay	39.98	
		For Up To 8, Add	*8.00*	
		For >8 To 16, Add	*4.00*	
		For >48 To 64, Deduct	*-2.72*	
		For >64 To 96, Deduct	*-4.72*	
		For >96, Deduct	*-6.72*	
31 05 13 00-0011	CY	Recycled Concrete Aggregate	26.50	
		For Up To 8, Add	*5.30*	
		For >8 To 16, Add	*2.65*	
		For >48 To 64, Deduct	*-2.05*	
		For >64 To 96, Deduct	*-3.38*	
		For >96, Deduct	*-4.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0012	CY	Pitrun Clay	43.80	
		For Up To 8, Add	*8.76*	
		For >8 To 16, Add	*4.38*	
		For >48 To 64, Deduct	*-2.92*	
		For >64 To 96, Deduct	*-5.11*	
		For >96, Deduct	*-7.30*	
31 05 13 00-0013	CY	Light Clay / Loam	36.43	
		For Up To 8, Add	*7.29*	
		For >8 To 16, Add	*3.64*	
		For >48 To 64, Deduct	*-2.55*	
		For >64 To 96, Deduct	*-4.37*	
		For >96, Deduct	*-6.19*	
31 05 13 00-0014	CY	Heavy Clay	43.80	
		For Up To 8, Add	*8.76*	
		For >8 To 16, Add	*4.38*	
		For >48 To 64, Deduct	*-2.92*	
		For >64 To 96, Deduct	*-5.11*	
		For >96, Deduct	*-7.30*	

31 05 16 Aggregates for Earthwork *(31 05)*

See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

31 05 16 00-0001 Aggregate (Loose, Purchased Material) *(31 05 16)*

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

31 05 16 00-0002	CY	#2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	37.29	
		For Up To 8, Add	*7.46*	
		For >8 To 16, Add	*3.73*	
		For >48 To 64, Deduct	*-2.59*	
		For >64 To 96, Deduct	*-4.45*	
		For >96, Deduct	*-6.32*	
31 05 16 00-0003	CY	#3 Stone Aggregate Fill (1" To 2" Clean)	38.62	
		For Up To 8, Add	*7.72*	
		For >8 To 16, Add	*3.86*	
		For >48 To 64, Deduct	*-2.66*	
		For >64 To 96, Deduct	*-4.59*	
		For >96, Deduct	*-6.52*	
31 05 16 00-0004	CY	#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	37.29	
		For Up To 8, Add	*7.46*	
		For >8 To 16, Add	*3.73*	
		For >48 To 64, Deduct	*-2.59*	
		For >64 To 96, Deduct	*-4.45*	
		For >96, Deduct	*-6.32*	
31 05 16 00-0005	CY	#5 Stone Aggregate Fill (1/2" To 1" Clean)	39.59	
		For Up To 8, Add	*7.92*	
		For >8 To 16, Add	*3.96*	
		For >48 To 64, Deduct	*-2.70*	
		For >64 To 96, Deduct	*-4.68*	
		For >96, Deduct	*-6.66*	
31 05 16 00-0006	CY	#6 Stone Aggregate Fill (3/8" To 3/4" Clean)	40.95	
		For Up To 8, Add	*8.19*	
		For >8 To 16, Add	*4.10*	
		For >48 To 64, Deduct	*-2.77*	
		For >64 To 96, Deduct	*-4.82*	
		For >96, Deduct	*-6.87*	
31 05 16 00-0007	CY	#56 Stone Aggregate Fill (3/8" To 1")	39.80	
		For Up To 8, Add	*7.96*	
		For >8 To 16, Add	*3.98*	
		For >48 To 64, Deduct	*-2.72*	
		For >64 To 96, Deduct	*-4.71*	
		For >96, Deduct	*-6.70*	
31 05 16 00-0008	CY	#57 Stone Aggregate Fill (3/8" To 1")	42.17	
		For Up To 8, Add	*8.43*	
		For >8 To 16, Add	*4.22*	
		For >48 To 64, Deduct	*-2.83*	
		For >64 To 96, Deduct	*-4.94*	
		For >96, Deduct	*-7.05*	
31 05 16 00-0009	CY	#67 Or #68 Stone Aggregate Fill (3/16" To 3/4")	38.55	
		For Up To 8, Add	*7.71*	
		For >8 To 16, Add	*3.86*	
		For >48 To 64, Deduct	*-2.65*	
		For >64 To 96, Deduct	*-4.58*	
		For >96, Deduct	*-6.51*	
31 05 16 00-0010	CY	#7 Stone Aggregate Fill (3/8" To 1/2")	39.21	
		For Up To 8, Add	*7.84*	
		For >8 To 16, Add	*3.92*	
		For >48 To 64, Deduct	*-2.69*	
		For >64 To 96, Deduct	*-4.65*	
		For >96, Deduct	*-6.61*	
31 05 16 00-0011	CY	#78 Stone Aggregate Fill (3/32" To 1/2")	39.49	
		For Up To 8, Add	*7.90*	
		For >8 To 16, Add	*3.95*	
		For >48 To 64, Deduct	*-2.70*	
		For >64 To 96, Deduct	*-4.67*	
		For >96, Deduct	*-6.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0012	CY	#8 Stone Aggregate Fill (3/32" To 3/8")	40.95	
		For Up To 8, Add	*8.19*	
		For >8 To 16, Add	*4.10*	
		For >48 To 64, Deduct	*-2.77*	
		For >64 To 96, Deduct	*-4.82*	
		For >96, Deduct	*-6.87*	
31 05 16 00-0013	CY	#89 Stone Aggregate Fill (1/16" To 3/8")	41.36	
		For Up To 8, Add	*8.27*	
		For >8 To 16, Add	*4.14*	
		For >48 To 64, Deduct	*-2.79*	
		For >64 To 96, Deduct	*-4.86*	
		For >96, Deduct	*-6.93*	
31 05 16 00-0014	CY	#9 Stone Aggregate Fill (3/32" To 3/16")	40.95	
		For Up To 8, Add	*8.19*	
		For >8 To 16, Add	*4.10*	
		For >48 To 64, Deduct	*-2.77*	
		For >64 To 96, Deduct	*-4.82*	
		For >96, Deduct	*-6.87*	
31 05 16 00-0015	CY	#10 Stone Aggregate Fill (1/16" To 3/16")	41.79	
		For Up To 8, Add	*8.36*	
		For >8 To 16, Add	*4.18*	
		For >48 To 64, Deduct	*-2.81*	
		For >64 To 96, Deduct	*-4.90*	
		For >96, Deduct	*-6.99*	
31 05 16 00-0016	CY	#610 Modified Stone Aggregate Fill (1/16" To 3/4")	41.36	
		For Up To 8, Add	*8.27*	
		For >8 To 16, Add	*4.14*	
		For >48 To 64, Deduct	*-2.79*	
		For >64 To 96, Deduct	*-4.86*	
		For >96, Deduct	*-6.93*	
31 05 16 00-0017	CY	Screenings Stone Aggregate Fill (3/16" Max)	35.42	
		For Up To 8, Add	*7.08*	
		For >8 To 16, Add	*3.54*	
		For >48 To 64, Deduct	*-2.50*	
		For >64 To 96, Deduct	*-4.27*	
		For >96, Deduct	*-6.04*	
31 05 16 00-0018	CY	Over 6" To 12" Stone Aggregate Fill, Random Size	38.10	
		For Up To 8, Add	*7.62*	
		For >8 To 16, Add	*3.81*	
		For >48 To 64, Deduct	*-2.63*	
		For >64 To 96, Deduct	*-4.54*	
		For >96, Deduct	*-6.44*	
31 05 16 00-0019	CY	Over 6" To 12" Graded Stone Aggregate Fill	38.10	
		For Up To 8, Add	*7.62*	
		For >8 To 16, Add	*3.81*	
		For >48 To 64, Deduct	*-2.63*	
		For >64 To 96, Deduct	*-4.54*	
		For >96, Deduct	*-6.44*	
31 05 16 00-0020	CY	3" To 7" Surge Stone Aggregate Fill, Random Size	40.79	
		For Up To 8, Add	*8.16*	
		For >8 To 16, Add	*4.08*	
		For >48 To 64, Deduct	*-2.76*	
		For >64 To 96, Deduct	*-4.80*	
		For >96, Deduct	*-6.84*	
31 05 16 00-0021	CY	3" To 7" Surge Stone Graded Aggregate Fill	42.70	
		For Up To 8, Add	*8.54*	
		For >8 To 16, Add	*4.27*	
		For >48 To 64, Deduct	*-2.86*	
		For >64 To 96, Deduct	*-5.00*	
		For >96, Deduct	*-7.13*	
31 05 16 00-0022	CY	Crusher Run Aggregate Fill (2-1/2" Minus)	26.07	
		For Up To 8, Add	*5.21*	
		For >8 To 16, Add	*2.61*	
		For >48 To 64, Deduct	*-2.03*	
		For >64 To 96, Deduct	*-3.33*	
		For >96, Deduct	*-4.64*	
31 05 16 00-0023	CY	Crusher Run Aggregate Fill (1-1/2" Minus)	28.17	
		For Up To 8, Add	*5.63*	
		For >8 To 16, Add	*2.82*	
		For >48 To 64, Deduct	*-2.13*	
		For >64 To 96, Deduct	*-3.54*	
		For >96, Deduct	*-4.95*	
31 05 16 00-0024	CY	Crusher Run Aggregate Fill (3/4" Minus)	26.81	
		For Up To 8, Add	*5.36*	
		For >8 To 16, Add	*2.68*	
		For >48 To 64, Deduct	*-2.07*	
		For >64 To 96, Deduct	*-3.41*	
		For >96, Deduct	*-4.75*	
31 05 16 00-0025	CY	Miscellaneous Crushed Base, Processed Concrete, Paving	44.94	
		For Up To 8, Add	*8.99*	
		For >8 To 16, Add	*4.49*	
		For >48 To 64, Deduct	*-2.97*	
		For >64 To 96, Deduct	*-5.22*	
		For >96, Deduct	*-7.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization *(31 05)*

See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing *(31)*

31 11 Clearing and Grubbing *(31 10)*

31 11 00 00-0001 Clear And Grub Roots And Stumps *(31 11)*

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002	ACR	Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip Note: Includes grub and removal of stump	7,914.71	
31 11 00 00-0003	ACR	Clear And Grub Light Stumps Only Up To 6" Diameter	1,959.03	
31 11 00 00-0004	ACR	Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip Note: Includes grub and removal of stump	9,233.82	
31 11 00 00-0005	ACR	Clear And Grub Medium Stumps Only Up To 10" Diameter	3,265.06	
31 11 00 00-0006	ACR	Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip Note: Includes grub and removal of stump	10,492.98	
31 11 00 00-0007	ACR	Clear And Grub Heavy Stumps Only Up To 16" Diameter	3,710.74	
31 11 00 00-0008	ACR	Clearing By Machine - Light Brush Without Grub	305.90	
31 11 00 00-0009	ACR	Clearing By Machine - Medium Brush Without Grub	639.10	
31 11 00 00-0010	ACR	Clearing By Machine - Heavy Brush Without Grub	902.85	
31 11 00 00-0011	ACR	Chipping - Light Brush	2,462.79	
31 11 00 00-0012	ACR	Chipping - Medium Brush	3,166.60	
31 11 00 00-0013	ACR	Chipping - Heavy Brush	4,433.65	

31 11 00 00-0014 Loading Of Cleared And Grubbed Material *(31 11)*

See CSI section 01 74 19 00-0037 for hauling.

31 11 00 00-0015	CY	Machine Loading Of Cleared And Grubbed Material	10.69	
31 11 00 00-0016	CY	Chute Loading Of Cleared And Grubbed Material	12.83	
31 11 00 00-0017	CY	Hand Loading Of Cleared And Grubbed Material	37.28	
31 11 00 00-0018	CY	Wheel And Ramp Loading Of Cleared And Grubbed Material	29.30	

31 13 Selective Tree and Shrub Removal and Trimming *(31 10)*

31 13 13 Selective Tree and Shrub Removal *(31 13)*

31 13 13 00-0001 Individual Tree Removal *(31 13 13)*

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002	EA	Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading.	577.12	
31 13 13 00-0003	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading.	865.67	
31 13 13 00-0004	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading.	1,154.23	
31 13 13 00-0005	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading.	1,731.35	
31 13 13 00-0006	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading.	2,308.45	
31 13 13 00-0007	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading.	2,885.57	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-721.39*	
31 13 13 00-0008	EA	>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading.	3,462.68	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-865.67*	
31 13 13 00-0009	EA	>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading.	4,616.91	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	*-1,154.23*	

31 13 13 00-0010 Stump Removal *(31 13 13)*

Note: Measured by diameter of stump.

31 13 13 00-0011 Stump Removal By Machine *(31 13 13 00-0010)*

31 13 13 00-0012	EA	Up To 6" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	97.95	
31 13 13 00-0013	EA	>6" To 12" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	187.74	
31 13 13 00-0014	EA	>12" To 24" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	244.88	
31 13 13 00-0015	EA	>24" To 36" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	367.32	
31 13 13 00-0016	EA	>36" To 48" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	432.65	
31 13 13 00-0017	EA	>48" To 60" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	509.35	
31 13 13 00-0018	EA	>60" To 72" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	604.03	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0019	EA	>72" To 84" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading.	710.15	

31 13 13 00-0020 Stump Removal By Hand *(31 13 13 00-0010)*

31 13 13 00-0021	EA	Up To 6" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	588.39	
31 13 13 00-0022	EA	>6" To 12" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	735.50	
31 13 13 00-0023	EA	>12" To 24" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,078.73	
31 13 13 00-0024	EA	>24" To 36" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,470.99	
31 13 13 00-0025	EA	>36" To 48" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,961.33	
31 13 13 00-0026	EA	>48" To 60" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,451.65	
31 13 13 00-0027	EA	>60" To 72" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,941.99	
31 13 13 00-0028	EA	>72" To 84" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,432.32	

31 13 13 00-0029 Stump Grinding *(31 13 13)*

Note: Measured by diameter of stump.

31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil *(31 13 13 00-0029)*

Note: Level soil to match existing surface area.

31 13 13 00-0031	EA	Stump Grinding Up To 6" Tree	109.34	
		For 24" Depth, Add	*21.87*	
31 13 13 00-0032	EA	Stump Grinding >6" To 12" Tree	145.79	
		For 24" Depth, Add	*29.16*	
31 13 13 00-0033	EA	Stump Grinding >12" To 15" Tree	164.00	
		For 24" Depth, Add	*32.80*	
31 13 13 00-0034	EA	Stump Grinding >15" To 18" Tree	182.23	
		For 24" Depth, Add	*36.45*	
31 13 13 00-0035	EA	Stump Grinding >18" To 21" Tree	195.90	
		For 24" Depth, Add	*39.18*	
31 13 13 00-0036	EA	Stump Grinding >21" To 24" Tree	209.56	
		For 24" Depth, Add	*41.91*	
31 13 13 00-0037	EA	Stump Grinding >24" To 27" Tree	227.79	
		For 24" Depth, Add	*45.56*	
31 13 13 00-0038	EA	Stump Grinding >27" To 30" Tree	247.39	
		For 24" Depth, Add	*49.48*	
31 13 13 00-0039	EA	Stump Grinding >30" To 33" Tree	274.89	
		For 24" Depth, Add	*54.98*	
31 13 13 00-0040	EA	Stump Grinding >33" To 36" Tree	293.21	
		For 24" Depth, Add	*58.64*	
31 13 13 00-0041	EA	Stump Grinding >36" To 42" Tree	329.86	
		For 24" Depth, Add	*65.97*	
31 13 13 00-0042	EA	Stump Grinding >42" To 48" Tree	366.50	
		For 24" Depth, Add	*73.30*	
31 13 13 00-0043	EA	Stump Grinding >48" To 60" Tree	458.13	
		For 24" Depth, Add	*91.63*	
31 13 13 00-0044	EA	Stump Grinding >60" To 72" Tree	572.67	
		For 24" Depth, Add	*114.53*	
31 13 13 00-0045	EA	Stump Grinding >72" To 84" Tree	733.02	
		For 24" Depth, Add	*146.60*	

31 13 13 00-0046 Shrub Removal *(31 13 13)*

31 13 13 00-0047	EA	Removal Of 18" To 24" Shrub, Broadleaf Evergreen	43.05	
31 13 13 00-0048	EA	Removal Of 2' To 3' Shrub, Broadleaf Evergreen	67.50	
31 13 13 00-0049	EA	Removal Of 3' To 4' Shrub, Broadleaf Evergreen	78.27	
31 13 13 00-0050	EA	Removal Of 4' To 5' Shrub, Broadleaf Evergreen	117.40	
31 13 13 00-0051	EA	Removal Of 12" To 15" Shrub, Deciduous	21.52	
31 13 13 00-0052	EA	Removal Of 18" To 24" Shrub, Deciduous	33.26	
31 13 13 00-0053	EA	Removal Of 2' To 3' Shrub, Deciduous	43.05	
31 13 13 00-0054	EA	Removal Of 3' To 4' Shrub, Deciduous	46.95	
31 13 13 00-0055	EA	Removal Of 18" To 24" Shrub, Evergreen	43.05	
31 13 13 00-0056	EA	Removal Of 24" To 30" Shrub, Evergreen	46.95	
31 13 13 00-0057	EA	Removal Of 30" To 36" Shrub, Evergreen	67.50	
31 13 13 00-0058	EA	Removal Of 36" To 42" Shrub, Evergreen	117.40	

31 13 16 Selective Tree and Shrub Trimming *(31 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 13 16 00-0001 Tree Trimming For Pole Line Construction And Maintenance *(31 13 16)*

Note: Area to be vertical cleared (to include overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.

31 13 16 00-0002 LF Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction....1.88
31 13 16 00-0003 LF Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction....2.82
31 13 16 00-0004 LF Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction....3.32

31 20 Earth Moving *(31)*

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less that 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 23 Excavation and Fill *(31 20)*

31 23 16 Excavation *(31 23)*

31 23 16 13 Trenching *(31 23 16)*

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001 Excavation For Trenching By Machine *(31 23 16 13)*

Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0002 CY 12" Wide or Less, Excavation for Trenching by Machine in Soil....10.39
For Excavation In Light Material (Class A), Deduct *-1.30*
For Excavation In Heavy/Wet Material (Class C), Add *4.16*
For Up To 20, Add *8.31*
For >20 To 50, Add *5.20*
For >50 To 250, Add *2.60*
For >500 To 1,000, Deduct *-1.56*
For >1,000, Deduct *-3.12*
31 23 16 13-0003 CY Over 12" Wide, Excavation for Trenching by Machine in Soil....6.85
For Excavation In Light Material (Class A), Deduct *-0.86*
For Excavation In Heavy/Wet Material (Class C), Add *2.74*
For Up To 20, Add *5.48*
For >20 To 50, Add *3.43*
For >50 To 250, Add *1.71*
For >500 To 1,000, Deduct *-1.03*
For >1,000, Deduct *-2.06*
31 23 16 13-0004 CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock....17.18
Note: Includes compacted aggregate
For Up To 20, Add *13.74*
For >20 To 50, Add *8.59*
For >50 To 250, Add *4.30*
For >500 To 1,000, Deduct *-2.58*
For >1,000, Deduct *-5.15*
31 23 16 13-0005 CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock....12.17
Note: Includes compacted aggregate
For Up To 20, Add *9.74*
For >20 To 50, Add *6.09*
For >50 To 250, Add *3.04*
For >500 To 1,000, Deduct *-1.83*
For >1,000, Deduct *-3.65*

31 23 16 13-0006 Excavation For Trenching By Hand *(31 23 16 13)*

31 23 16 13-0007 CY Excavation For Trenching By Hand In Soil....123.03
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.
31 23 16 13-0008 CY Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate....211.05
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0009 Backfilling Or Placing Subbase For Trenches *(31 23 16 13)*

Note: With imported or stockpiled materials.

31 23 16 13-0010 CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine....3.69
For Up To 20, Add *2.95*
For >20 To 50, Add *1.85*
For >50 To 250, Add *0.92*
For >500 To 1,000, Deduct *-0.55*
For >1,000, Deduct *-1.11*
31 23 16 13-0011 CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand....34.18

31 23 16 13-0012 Compaction Of Fill Or Subbase For Trenches *(31 23 16 13)*

Note: Includes restoration of final grade.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0013	CY	Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera	7.14	
		For Up To 20, Add	*5.71*	
		For >20 To 50, Add	*3.57*	
		For >50 To 250, Add	*1.79*	
		For >500 To 1,000, Deduct	*-1.07*	
		For >1,000, Deduct	*-2.14*	
31 23 16 13-0014	CY	Compaction of Fill or Subbase for Trenches by Hand	38.56	

31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches *(31 23 16 13)*

Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0037 for hauling.

31 23 16 13-0016	CY	Load Excess Material by Machine for Removal from Excavation for Trenching	6.42	
		For Up To 20, Add	*5.14*	
		For >20 To 50, Add	*3.21*	
		For >50 To 250, Add	*1.61*	
		For >500 To 1,000, Deduct	*-0.96*	
		For >1,000, Deduct	*-1.93*	
31 23 16 13-0017	CY	Load Excess Material by Hand for Removal from Excavation for Trenching	90.22	

31 23 16 13-0018 Spread Excess Or Imported Material For Trenches *(31 23 16 13)*

Note: Includes hand work by laborer for clean-up.

31 23 16 13-0019	CY	Spread Excess Or Imported Material On Site With Machine	2.99	
		For Up To 20, Add	*2.39*	
		For >20 To 50, Add	*1.50*	
		For >50 To 250, Add	*0.75*	
		For >500 To 1,000, Deduct	*-0.45*	
		For >1,000, Deduct	*-0.90*	

31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine *(31 23 16 13)*

Note: Includes trench, backfill, compaction and restoration of final grade.

31 23 16 13-0021	LF	Direct Burial of Cable or Piping up to 12" Deep	2.24	
31 23 16 13-0022	LF	Direct Burial of Cable or Piping >12" to 24" Deep	2.46	
31 23 16 13-0023	LF	Direct Burial of Cable or Piping >24" to 36" Deep	3.50	
31 23 16 13-0024	LF	Direct Burial of Cable or Piping >36" to 48" Deep	3.95	

31 23 16 13-0025 Utility Chain Trencher *(31 23 16 13)*

31 23 16 13-0026 Utility Trench, Chain Trencher *(31 23 16 13-0025)*

Note: Earth left adjacent to trench.

31 23 16 13-0027	LF	4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.22	
		For >100 To 250, Deduct	*-0.09*	
		For >250 To 500, Deduct	*-0.18*	
		For >500, Deduct	*-0.37*	
31 23 16 13-0028	LF	4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.34	
		For >100 To 250, Deduct	*-0.09*	
		For >250 To 500, Deduct	*-0.20*	
		For >500, Deduct	*-0.40*	
31 23 16 13-0029	LF	4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.39	
		For >100 To 250, Deduct	*-0.10*	
		For >250 To 500, Deduct	*-0.21*	
		For >500, Deduct	*-0.42*	
31 23 16 13-0030	LF	6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.47	
		For >100 To 250, Deduct	*-0.10*	
		For >250 To 500, Deduct	*-0.22*	
		For >500, Deduct	*-0.44*	
31 23 16 13-0031	LF	6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.61	
		For >100 To 250, Deduct	*-0.11*	
		For >250 To 500, Deduct	*-0.24*	
		For >500, Deduct	*-0.48*	
31 23 16 13-0032	LF	6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.84	
		For >100 To 250, Deduct	*-0.13*	
		For >250 To 500, Deduct	*-0.28*	
		For >500, Deduct	*-0.55*	
31 23 16 13-0033	LF	6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.21	
		For >100 To 250, Deduct	*-0.15*	
		For >250 To 500, Deduct	*-0.33*	
		For >500, Deduct	*-0.66*	
31 23 16 13-0034	LF	8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.08	
		For >100 To 250, Deduct	*-0.15*	
		For >250 To 500, Deduct	*-0.31*	
		For >500, Deduct	*-0.62*	
31 23 16 13-0035	LF	8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.46	
		For >100 To 250, Deduct	*-0.17*	
		For >250 To 500, Deduct	*-0.37*	
		For >500, Deduct	*-0.74*	
31 23 16 13-0036	LF	8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.79	
		For >100 To 250, Deduct	*-0.20*	
		For >250 To 500, Deduct	*-0.42*	
		For >500, Deduct	*-0.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0037	LF	8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	3.31	
		For >100 To 250, Deduct	*-0.23*	
		For >250 To 500, Deduct	*-0.50*	
		For >500, Deduct	*-0.99*	

31 23 16 13-0038 Backfill Trenches With Compaction *(31 23 16 13-0025)*

31 23 16 13-0039	LF	Backfill 4" Wide, 12" Deep Trench, With Compaction	0.19	
		For >100 To 250, Deduct	*-0.01*	
		For >250 To 500, Deduct	*-0.03*	
		For >500, Deduct	*-0.06*	
31 23 16 13-0040	LF	Backfill 4" Wide, 18" Deep Trench, With Compaction	0.29	
		For >100 To 250, Deduct	*-0.02*	
		For >250 To 500, Deduct	*-0.04*	
		For >500, Deduct	*-0.09*	
31 23 16 13-0041	LF	Backfill 4" Wide, 24" Deep Trench, With Compaction	0.40	
		For >100 To 250, Deduct	*-0.03*	
		For >250 To 500, Deduct	*-0.06*	
		For >500, Deduct	*-0.12*	
31 23 16 13-0042	LF	Backfill 6" Wide, 12" Deep Trench, With Compaction	0.29	
		For >100 To 250, Deduct	*-0.02*	
		For >250 To 500, Deduct	*-0.04*	
		For >500, Deduct	*-0.09*	
31 23 16 13-0043	LF	Backfill 6" Wide, 18" Deep Trench, With Compaction	0.40	
		For >100 To 250, Deduct	*-0.03*	
		For >250 To 500, Deduct	*-0.06*	
		For >500, Deduct	*-0.12*	
31 23 16 13-0044	LF	Backfill 6" Wide, 24" Deep Trench, With Compaction	0.60	
		For >100 To 250, Deduct	*-0.04*	
		For >250 To 500, Deduct	*-0.09*	
		For >500, Deduct	*-0.18*	
31 23 16 13-0045	LF	Backfill 6" Wide, 36" Deep Trench, With Compaction	0.86	
		For >100 To 250, Deduct	*-0.06*	
		For >250 To 500, Deduct	*-0.13*	
		For >500, Deduct	*-0.26*	
31 23 16 13-0046	LF	Backfill 8" Wide, 12" Deep Trench, With Compaction	0.40	
		For >100 To 250, Deduct	*-0.03*	
		For >250 To 500, Deduct	*-0.06*	
		For >500, Deduct	*-0.12*	
31 23 16 13-0047	LF	Backfill 8" Wide, 18" Deep Trench, With Compaction	0.60	
		For >100 To 250, Deduct	*-0.04*	
		For >250 To 500, Deduct	*-0.09*	
		For >500, Deduct	*-0.18*	
31 23 16 13-0048	LF	Backfill 8" Wide, 24" Deep Trench, With Compaction	0.80	
		For >100 To 250, Deduct	*-0.06*	
		For >250 To 500, Deduct	*-0.12*	
		For >500, Deduct	*-0.24*	
31 23 16 13-0049	LF	Backfill 8" Wide, 36" Deep Trench, With Compaction	1.20	
		For >100 To 250, Deduct	*-0.08*	
		For >250 To 500, Deduct	*-0.18*	
		For >500, Deduct	*-0.36*	

31 23 16 26 Rock Removal *(31 23 16)*

31 23 16 26-0001 Rock Breaking By Machine *(31 23 16 26)*

Note: Excludes excavation of broken-up rock.

31 23 16 26-0002	CY	Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone)	26.66
31 23 16 26-0003	CY	Rock Breaking By Machine, Medium Metamorphic Rock (Slate)	28.43
31 23 16 26-0004	CY	Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt)	33.76

31 23 16 33 Bulk Excavation *(31 23 16)*

Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.

31 23 16 33-0001 Excavation *(31 23 16 33)*

Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.

31 23 16 33-0002	CY	Bulk Excavation by Dozer in Soil	9.35	
		For Excavation In Light Material (Class A), Deduct	*-1.17*	
		For Excavation In Heavy/Wet Material (Class C), Add	*3.74*	
		For >1,000, Deduct	*-1.40*	
31 23 16 33-0003	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	5.52	
		For Excavation In Light Material (Class A), Deduct	*-0.69*	
		For Excavation In Heavy/Wet Material (Class C), Add	*2.21*	
		For >1,000, Deduct	*-0.83*	
31 23 16 33-0004	CY	Bulk Excavation by Dozer in Loose Rock Note: Includes compacted aggregate	11.51	
		For >1,000, Deduct	*-1.73*	
31 23 16 33-0005	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock Note: Includes compacted aggregate	6.81	
		For >1,000, Deduct	*-1.02*	

31 23 16 33-0006 Spreading, Shaping And Rough Grading *(31 23 16 33)*

Note: Imported or stockpiled material for bulk excavation.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0007	CY	Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine	5.78	
		For >1,000, Deduct	*-0.87*	

31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations *(31 23 16 33)*

Note: For bulk excavation.

31 23 16 33-0009	CY	Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine	6.42	
		For >1,000, Deduct	*-0.96*	

31 23 16 33-0010 Relocating On Site Excavated Material From Excavation *(31 23 16 33)*

Note: For bulk excavation.

31 23 16 33-0011	CY	Relocating On Site Excavated Material From Bulk Excavation >100' to 300'	5.14	
		For >1,000, Deduct	*-0.77*	
31 23 16 33-0012	CY	Relocating On Site Excavated Material From Bulk Excavation >300' to 500'	7.70	
		For >1,000, Deduct	*-1.16*	
31 23 16 33-0013	CY	Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000'	11.55	
		For >1,000, Deduct	*-1.73*	
31 23 16 33-0014	CY	Relocating On Site Excavated Material From Bulk Excavation >1,000'	15.40	
		For >1,000, Deduct	*-2.31*	

31 23 16 33-0015 Finish Grading *(31 23 16 33)*

Note: For bulk excavation.

31 23 16 33-0016	SY	Finish Grading for Bulk Excavation by Machine	0.64	

31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift *(31 23 16 33)*

Note: For bulk excavation.

31 23 16 33-0018	SY	Compaction of Fill or Subbase for Bulk Excavation by Machine Note: Per Lift	0.65	

31 23 16 33-0019 Loading Excess Material For Removal From Excavation *(31 23 16 33)*

Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0037 for hauling.

31 23 16 33-0020	CY	Loading Excess Material For Removal From Bulk Excavation	5.46	
		For >1,000, Deduct	*-0.82*	

31 23 16 36 Excavation for Building Foundations and Other Structures *(31 23 16)*

Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.

31 23 16 36-0001 Excavation *(31 23 16 36)*

Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.

31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader *(31 23 16 36-0001)*

31 23 16 36-0003	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil	8.56	
		For Excavation In Light Material (Class A), Deduct	*-1.07*	
		For Excavation In Heavy/Wet Material (Class C), Add	*3.42*	
		For Up To 20, Add	*8.56*	
		For >20 To 50, Add	*6.42*	
		For >50 To 250, Add	*3.42*	
		For >250 To 500, Add	*1.28*	
31 23 16 36-0004	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate	10.66	
		For Up To 20, Add	*10.66*	
		For >20 To 50, Add	*8.00*	
		For >50 To 250, Add	*4.26*	
		For >250 To 500, Add	*1.60*	

31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader *(31 23 16 36-0001)*

31 23 16 36-0006	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil	6.63	
		For Excavation In Light Material (Class A), Deduct	*-0.83*	
		For Excavation In Heavy/Wet Material (Class C), Add	*2.65*	
		For Up To 20, Add	*6.63*	
		For >20 To 50, Add	*4.97*	
		For >50 To 250, Add	*2.65*	
		For >250 To 500, Add	*0.99*	
31 23 16 36-0007	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate	7.90	
		For Up To 20, Add	*7.90*	
		For >20 To 50, Add	*5.93*	
		For >50 To 250, Add	*3.16*	
		For >250 To 500, Add	*1.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0008		**Excavation For Building Foundations And Other Structures By Hand** *(31 23 16 36-0001)*		
		Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009	CY	Excavation For Building Foundations And Other Structures By Hand in Soil	123.03	
		For Excavation In Light Material (Class A), Deduct	*-15.38*	
		For Excavation In Heavy/Wet Material (Class C), Add	*49.21*	
31 23 16 36-0010	CY	Excavation For Building Foundations And Other Structures By Hand in Loose Rock	211.05	
		Note: Includes compacted aggregate		
31 23 16 36-0011		**Relocating On Site Excavated Material From Excavation** *(31 23 16 36)*		
		Note: For building foundations and other structures over 100'.		
31 23 16 36-0012	CY	Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300'	5.14	
		For Up To 20, Add	*5.14*	
		For >20 To 50, Add	*3.86*	
		For >50 To 250, Add	*2.06*	
		For >250 To 500, Add	*0.77*	
31 23 16 36-0013	CY	Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500'	7.70	
		For Up To 20, Add	*7.70*	
		For >20 To 50, Add	*5.78*	
		For >50 To 250, Add	*3.08*	
		For >250 To 500, Add	*1.16*	
31 23 16 36-0014	CY	Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000'	11.55	
		For Up To 20, Add	*11.55*	
		For >20 To 50, Add	*8.66*	
		For >50 To 250, Add	*4.62*	
		For >250 To 500, Add	*1.73*	
31 23 16 36-0015	CY	Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000'	15.40	
		For Up To 20, Add	*15.40*	
		For >20 To 50, Add	*11.55*	
		For >50 To 250, Add	*6.16*	
		For >250 To 500, Add	*2.31*	
31 23 16 36-0016		**Backfilling** *(31 23 16 36)*		
		Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.		
31 23 16 36-0017	CY	Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	4.23	
		For Up To 20, Add	*4.23*	
		For >20 To 50, Add	*3.17*	
		For >50 To 250, Add	*1.69*	
		For >250 To 500, Add	*0.63*	
31 23 16 36-0018	CY	Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	5.14	
		For Up To 20, Add	*5.14*	
		For >20 To 50, Add	*3.86*	
		For >50 To 250, Add	*2.06*	
		For >250 To 500, Add	*0.77*	
31 23 16 36-0019	CY	Backfilling Around Building Foundations And Other Structures By Hand	58.59	
31 23 16 36-0020		**Compaction Of Fill Or Subbase** *(31 23 16 36)*		
		Note: For building foundations and other structures.		
31 23 16 36-0021	CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	11.32	
		For Up To 20, Add	*11.32*	
		For >20 To 50, Add	*8.49*	
		For >50 To 250, Add	*4.53*	
		For >250 To 500, Add	*1.70*	
31 23 16 36-0022	CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	38.55	
31 23 16 36-0023		**Grading** *(31 23 16 36)*		
		Note: For building foundations and other structures.		
31 23 16 36-0024	SY	Rough Grading For Building Foundations And Other Structures by Machine	1.11	
31 23 16 36-0025	SY	Finish Grading For Building Foundations And Other Structures by Machine	1.79	
31 23 16 36-0026	SY	Finish Grading For Building Foundations And Other Structures by Hand	11.39	
31 23 16 36-0027		**Loading Excess Material For Removal From Excavation** *(31 23 16 36)*		
		Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0037 for hauling.		
31 23 16 36-0028	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	5.69	
		For Up To 20, Add	*5.69*	
		For >20 To 50, Add	*4.27*	
		For >50 To 250, Add	*2.28*	
		For >250 To 500, Add	*0.85*	
31 23 16 36-0029	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	90.22	
31 23 16 36-0030		**Spread Material** *(31 23 16 36)*		
		Note: For building foundations and other structures.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0031	CY	Spread Excess Or Imported Material On Site By Machine	2.99	
		For Up To 20, Add	*2.99*	
		For >20 To 50, Add	*2.24*	
		For >50 To 250, Add	*1.20*	
		For >250 To 500, Add	*0.45*	
31 23 16 36-0032	CY	Spread Excess Or Imported Material On Site By Hand	49.78	

31 23 19 Dewatering *(31 23)*

31 23 19 00-0001 Well Point Dewatering System *(31 23 19)*

31 23 19 00-0002 Delivery, Installation And Removal Cost *(31 23 19 00-0001)*

Note: Priced by linear foot of header used.

31 23 19 00-0003	LF	Up To 100' In Length Well Point System Delivery, Installation And Removal	122.29	
31 23 19 00-0004	LF	>100' To 250' In Length Well Point System Delivery, Installation And Removal	67.25	
31 23 19 00-0005	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	61.15	
31 23 19 00-0006	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	55.03	
31 23 19 00-0007	LF	>500' To 1,000' In Length Well Point System Delivery, Installation And Removal	48.92	
31 23 19 00-0008	LF	>1,000' In Length Well Point System Delivery, Installation And Removal	42.80	

31 23 19 00-0009 Well Point Dewatering System Rental *(31 23 19 00-0001)*

Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.

31 23 19 00-0010	LFD	Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	1.78	
		For >5 Days And <1 Month, Deduct	*-0.39*	
		For >1 Month, Deduct	*-0.50*	
31 23 19 00-0011	LFD	>100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.04	
		For >5 Days And <1 Month, Deduct	*-0.23*	
		For >1 Month, Deduct	*-0.29*	
31 23 19 00-0012	LFD	>250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	0.74	
		For >5 Days And <1 Month, Deduct	*-0.16*	
		For >1 Month, Deduct	*-0.21*	
31 23 19 00-0013	LFD	>500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.54	
		For >5 Days And <1 Month, Deduct	*-0.12*	
		For >1 Month, Deduct	*-0.15*	
31 23 19 00-0014	LFD	>1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.49	
		For >5 Days And <1 Month, Deduct	*-0.11*	
		For >1 Month, Deduct	*-0.14*	

31 23 19 00-0015 Well Point Dewatering System Operation Costs *(31 23 19 00-0001)*

Note: The quantity for operation shall be the total number of hours the well point system is operational.

31 23 19 00-0016	HR	Operation Costs	102.87	

31 23 23 Fill *(31 23)*

31 23 23 23 Compaction *(31 23 23)*

31 23 23 23-0001 Compaction Water, Water Truck And Operator *(31 23 23 23)*

31 23 23 23-0002	MGL	Compaction Water, Water Truck And Operator	191.04	

Note: Use this task in situations where fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per 1000 Gallons) See CSI section 01 22 23 00-1286 for water truck when water is available on site.

31 24 Embankments *(31 20)*

31 24 13 Roadway Embankments *(31 24)*

31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations *(31 24 13)*

Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY.

31 24 13 00-0002 Cutting, Shaping And Rough Grading *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.

31 24 13 00-0003 Cutting, Shaping, And Rough Grading *(31 24 13 00-0002)*

31 24 13 00-0004	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil	6.42	
		For Up To 20, Add	*6.42*	
		For >20 To 50, Add	*4.82*	
		For >50 To 250, Add	*2.57*	
		For >250 To 500, Add	*0.96*	
		For >1,000, Deduct	*-0.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0005	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock	7.96	
		Note: Includes compacted aggregate		
		For Up To 20, Add	*7.96*	
		For >20 To 50, Add	*5.97*	
		For >50 To 250, Add	*3.18*	
		For >250 To 500, Add	*1.19*	
		For >1,000, Deduct	*-1.19*	

31 24 13 00-0006 Cutting, Shaping, And Rough Grading By Hand *(31 24 13 00-0002)*

31 24 13 00-0007	SY	Shape Embankment/Slope By Hand Up To 1 On 4 Slope	6.31	
31 24 13 00-0008	SY	Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	8.20	

31 24 13 00-0009 Scarify Soil *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments by machine.

31 24 13 00-0010	CSF	Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	5.94	
		For Up To 20, Add	*2.97*	
		For >20 To 50, Add	*1.49*	
		For >250 To 500, Deduct	*-0.59*	
		For >500, Deduct	*-1.19*	

31 24 13 00-0011 Relocating On Site Excavated Material *(31 24 13 00-0001)*

31 24 13 00-0012	CY	>500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	11.55	
		For Up To 20, Add	*11.55*	
		For >20 To 50, Add	*8.66*	
		For >50 To 250, Add	*4.62*	
		For >250 To 500, Add	*1.73*	
		For >1,000, Deduct	*-1.73*	
31 24 13 00-0013	CY	>1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	15.40	
		For Up To 20, Add	*15.40*	
		For >20 To 50, Add	*11.55*	
		For >50 To 250, Add	*6.16*	
		For >250 To 500, Add	*2.31*	
		For >1,000, Deduct	*-2.31*	

31 24 13 00-0014 Spread And Shape Imported Or Stockpiled Material *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreadding material by hand.

31 24 13 00-0015	CY	Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	7.06	
		For Up To 20, Add	*7.06*	
		For >20 To 50, Add	*5.30*	
		For >50 To 250, Add	*2.82*	
		For >250 To 500, Add	*1.06*	
		For >1,000, Deduct	*-1.06*	

31 24 13 00-0016 Grading *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments by machine.

31 24 13 00-0017	SY	Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.73	
31 24 13 00-0018	SY	Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.97	
31 24 13 00-0019	LF	Finish Grade For Curb	1.09	
31 24 13 00-0020	LF	Finish Grade For Curb And Gutter	1.34	

31 24 13 00-0021 Compaction Of Fill Or Subbase *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments by machine, per lift.

31 24 13 00-0022	SY	Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift	0.65	
		For Up To 250, Add	*0.65*	
		For >250 To 500, Add	*0.49*	
		For >500 To 1,000, Add	*0.26*	
		For >5,000, Deduct	*-0.10*	

31 24 13 00-0023 Loading Excess Material For Removal From Excavation *(31 24 13 00-0001)*

Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.

31 24 13 00-0024	CY	Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	5.46	
		For Up To 20, Add	*5.46*	
		For >20 To 50, Add	*4.10*	
		For >50 To 250, Add	*2.18*	
		For >250 To 500, Add	*0.82*	
		For >1,000, Deduct	*-0.82*	

31 25 Erosion and Sedimentation Controls *(31 20)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 25 14 Stabilization Measures for Erosion and Sedimentation Control *(31 25)*

31 25 14 13 Hydraulically-Applied Erosion Control *(31 25 14)*

31 25 14 13-0001 Bonded Fiber Matrix *(31 25 14 13)*

31 25 14 13-0002	MSF	Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	48.29	
31 25 14 13-0003	MSF	>25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied	43.77	
31 25 14 13-0004	MSF	>50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied	39.95	
31 25 14 13-0005	MSF	>100,000 Bonded Fiber Matrix, Hydraulically Applied	37.77	

31 25 14 16 Rolled Erosion Control Mats and Blankets *(31 25 14)*

Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.

31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats *(31 25 14 16)*

31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty *(31 25 14 16-0001)*

31 25 14 16-0003	SY	S75 Single Net Erosion Control Blanket Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.	1.90	
31 25 14 16-0004	SY	S75BN Single Net Erosion Control Blanket Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.	2.32	
31 25 14 16-0005	SY	Curlex 1, Single Net Erosion Control Blanket Note: As manufactured by American Excelsior	1.83	
31 25 14 16-0006	SY	Curlex 1, Single Net Erosion Control Blanket Note: As manufactured by American Green.	1.90	
31 25 14 16-0007	SY	Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting	1.74	

31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration *(31 25 14 16-0001)*

31 25 14 16-0009	SY	S150 Double Net Erosion Control Blanket Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.	2.42	
31 25 14 16-0010	SY	S150 BN Double Net Erosion Control Blanket Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.	3.07	
31 25 14 16-0011	SY	Curlex II, Double Net Erosion Control Blanket, Natural Note: As manufactured by American Excelsior.	2.11	
31 25 14 16-0012	SY	Curlex II, Double Net Erosion Control Blanket, Green Note: As manufactured by American Excelsior.	2.19	
31 25 14 16-0013	SY	Enforcer Double Net Erosion Control Blanket Note: As manufactured by American Excelsior.	2.29	

31 25 14 16-0014 Turf Reinforcement Mats (TRM) *(31 25 14 16-0001)*

Note: Permanent, UV stabilized.

31 25 14 16-0015	SY	P300 Permanent Polypropylene Turf Reinforcement Mat Note: 100% synthetic, UV stabilized, two layer netting.	10.39	
31 25 14 16-0016	SY	C350 Permanent Turf Reinforcement Mat Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.	9.64	
31 25 14 16-0017	SY	Recyclex TRM, Permanent Turf Reinforcement Mat Note: As manufactured by American Excelsior, 100% recycled	9.39	

31 25 14 16-0018 Jute Mesh Erosion Control Blankets *(31 25 14 16-0001)*

31 25 14 16-0019	SY	Jute Mesh, Open Uniform Weave	2.13	

31 25 14 16-0020 Revegetation Mat *(31 25 14 16-0001)*

31 25 14 16-0021	SY	3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.	7.47	
31 25 14 16-0022	SY	Webbed Revegetation Mat, Polypropylene Fiber Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.	10.60	

31 25 14 23 Stabilization Measures for Erosion Control *(31 25 14)*

See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

31 25 14 23-0001 Sand Bags *(31 25 14 23)*

Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0002	BAG	50 LB Capacity Sand Bag With Sand	6.16	2.59
		For >2,500 To 5,000, Deduct	*-0.52*	
		For >5,000, Deduct	*-1.13*	
31 25 14 23-0003	BAG	75 LB Capacity Sand Bag With Sand	7.93	3.22
		For >2,500 To 5,000, Deduct	*-0.64*	
		For >5,000, Deduct	*-1.44*	
31 25 14 23-0004	BAG	100 LB Capacity Sand Bag With Sand	9.92	3.85
		For >2,500 To 5,000, Deduct	*-0.77*	
		For >5,000, Deduct	*-1.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0005	BAG	125 LB Capacity Sand Bag With Sand	12.26	4.82
		For >2,500 To 5,000, Deduct	*-0.96*	
		For >5,000, Deduct	*-2.19*	
31 25 14 23-0006	BAG	150 LB Capacity Sand Bag With Sand	14.87	5.77
		For >2,500 To 5,000, Deduct	*-1.16*	
		For >5,000, Deduct	*-2.64*	
31 25 14 23-0007	BAG	175 LB Capacity Sand Bag With Sand	17.24	6.57
		For >2,500 To 5,000, Deduct	*-1.31*	
		For >5,000, Deduct	*-3.04*	
31 25 14 23-0008	BAG	2,000 LB Capacity Sand Bag With Sand	133.39	45.59
		For >2,500 To 5,000, Deduct	*-8.39*	
		For >5,000, Deduct	*-21.73*	
31 25 14 23-0009	BAG	3,000 LB Capacity Sand Bag With Sand	172.33	50.14
		For >2,500 To 5,000, Deduct	*-9.23*	
		For >5,000, Deduct	*-26.46*	

31 25 14 23-0010 Gravel Bags *(31 25 14 23)*

Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0011	BAG	30 LB Capacity Gravel Bag With Gravel	5.43	1.73
		For >2,500 To 5,000, Deduct	*-0.34*	
		For >5,000, Deduct	*-0.88*	
31 25 14 23-0012	BAG	50 LB Capacity Gravel Bag With Gravel	9.41	2.59
		For >2,500 To 5,000, Deduct	*-0.52*	
		For >5,000, Deduct	*-1.46*	

31 25 14 23-0013 Floating Turbidity Curtain *(31 25 14 23)*

Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.

31 25 14 23-0014	LF	3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	23.21	
		For Type 1, Deduct	*-3.51*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-2.14*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*2.59*	
31 25 14 23-0015	LF	4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	25.14	
		For Type 1, Deduct	*-3.86*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-2.35*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*2.85*	
31 25 14 23-0016	LF	5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	27.79	
		For Type 1, Deduct	*-4.37*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-2.66*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*3.23*	
31 25 14 23-0017	LF	6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	30.06	
		For Type 1, Deduct	*-4.79*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-2.92*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*3.54*	
31 25 14 23-0018	LF	7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	31.54	
		For Type 1, Deduct	*-5.03*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.06*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*3.71*	
31 25 14 23-0019	LF	8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	33.03	
		For Type 1, Deduct	*-5.26*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.20*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*3.89*	
31 25 14 23-0020	LF	9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	34.76	
		For Type 1, Deduct	*-5.54*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.37*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*4.10*	
31 25 14 23-0021	LF	10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	37.12	
		For Type 1, Deduct	*-5.96*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.63*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*4.41*	
31 25 14 23-0022	LF	12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	39.01	
		For Type 1, Deduct	*-6.27*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-3.81*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*4.63*	
31 25 14 23-0023	LF	13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	41.52	
		For Type 1, Deduct	*-6.71*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-4.08*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*4.96*	
31 25 14 23-0024	LF	14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	43.88	
		For Type 1, Deduct	*-7.11*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-4.33*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*5.25*	
31 25 14 23-0025	LF	15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	46.15	
		For Type 1, Deduct	*-7.48*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-4.55*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*5.53*	
31 25 14 23-0026	LF	16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	50.19	
		For Type 1, Deduct	*-8.25*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-5.02*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*6.10*	
31 25 14 23-0027	LF	17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	52.63	
		For Type 1, Deduct	*-8.65*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-5.27*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*6.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0028	LF	18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	55.00	
		For Type 1, Deduct	*-9.02*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-5.49*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*6.67*	
31 25 14 23-0029	LF	19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	57.52	
		For Type 1, Deduct	*-9.42*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-5.73*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*6.96*	
31 25 14 23-0030	LF	20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	59.98	
		For Type 1, Deduct	*-9.80*	
		For 13 Oz PVC Fabric, Type 2, Deduct	*-5.96*	
		For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	*7.24*	

31 25 14 23-0031 Turbidity Curtain Anchors *(31 25 14 23)*

31 25 14 23-0032	EA	14 LB, Turbidity Curtain Anchor System Note: Includes anchor, anchor chain, and marker buoy and rope.	612.13	
31 25 14 23-0033	EA	25 LB, Turbidity Curtain Anchor System Note: Includes anchor, anchor chain, and marker buoy and rope.	837.87	
31 25 14 23-0034	EA	40 LB, Turbidity Curtain Anchor System Note: Includes anchor, anchor chain, and marker buoy and rope.	1,064.58	
31 25 14 23-0035	EA	65 LB, Turbidity Curtain Anchor System Note: Includes anchor, anchor chain, and marker buoy and rope.	1,391.04	

31 25 14 23-0036 Filter Bags *(31 25 14 23)*

31 25 14 23-0037 Non-Woven Filter Bags *(31 25 14 23-0036)*

31 25 14 23-0038	EA	6' x 15' Non-Woven Filter Bag	165.41	
31 25 14 23-0039	EA	13' x 15' Non-Woven Filter Bag	238.65	
31 25 14 23-0040	EA	15' x 15' Non-Woven Filter Bag	275.19	

31 25 14 23-0041 Monofilament Filter Bags *(31 25 14 23-0036)*

31 25 14 23-0042	EA	5' x 15' Monofilament Filter Bag	171.73	
31 25 14 23-0043	EA	10' x 15' Monofilament Filter Bag	236.95	

31 25 14 23-0044 Cable Articulating Concrete Block *(31 25 14 23)*

Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.

31 25 14 23-0045	SF	4.75" Open Cell Articulated Concrete Block With Earth Backfill	36.35	
		For Up To 500, Add	*8.32*	
		For >500 To 1,000, Add	*4.68*	
31 25 14 23-0046	SF	6" Open Cell Articulated Concrete Block With Earth Backfill	41.32	
		For Up To 500, Add	*9.41*	
		For >500 To 1,000, Add	*5.28*	
31 25 14 23-0047	SF	7.5" Open Cell Articulated Concrete Block With Earth Backfill	47.04	
		For Up To 500, Add	*10.67*	
		For >500 To 1,000, Add	*5.96*	
31 25 14 23-0048	SF	9" Open Cell Articulated Concrete Block With Earth Backfill	52.95	
		For Up To 500, Add	*11.99*	
		For >500 To 1,000, Add	*6.69*	
31 25 14 23-0049	SF	4.75" Closed Cell Articulated Concrete Block	38.66	
		For Up To 500, Add	*8.78*	
		For >500 To 1,000, Add	*4.92*	
31 25 14 23-0050	SF	6" Closed Cell Articulated Concrete Block	44.09	
		For Up To 500, Add	*9.96*	
		For >500 To 1,000, Add	*5.55*	
31 25 14 23-0051	SF	7.5" Closed Cell Articulated Concrete Block	50.32	
		For Up To 500, Add	*11.32*	
		For >500 To 1,000, Add	*6.29*	
31 25 14 23-0052	SF	9" Closed Cell Articulated Concrete Block	56.69	
		For Up To 500, Add	*12.74*	
		For >500 To 1,000, Add	*7.07*	

31 25 14 26 Stabilization Measures for Sedimentation Control *(31 25 14)*

31 25 14 26-0001 Silt Fences And Dike Barriers *(31 25 14 26)*

Note: Includes stakes and embedding.

31 25 14 26-0002 Silt Fences 2' High *(31 25 14 26-0001)*

31 25 14 26-0003	LF	2' High Silt Fence with Stakes at 4' On Center	2.84	
31 25 14 26-0004	LF	2' High Silt Fence with Stakes at 6' On Center	2.22	
31 25 14 26-0005	LF	2' High Silt Fence with Stakes at 8' On Center	1.58	
31 25 14 26-0006	LF	2' High Silt Fence with Stakes at 10' On Center	1.36	

31 25 14 26-0007 Silt Fences 3' High *(31 25 14 26-0001)*

31 25 14 26-0008	LF	3' High Silt Fence with Stakes at 4' On Center	2.93	
31 25 14 26-0009	LF	3' High Silt Fence with Stakes at 6' On Center	2.38	
31 25 14 26-0010	LF	3' High Silt Fence with Stakes at 8' On Center	1.49	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26-0011	LF	3' High Silt Fence with Stakes at 10' On Center	1.43	

31 25 14 26-0012 Silt Dike Barrier *(31 25 14 26-0001)*

31 25 14 26-0013	LF	Silt Dike Barrier With Stakes	3.28	

31 25 14 26-0014 Silt Fences Removal *(31 25 14 26-0001)*

31 25 14 26-0015	LF	Removal Of Silt Fence And Stakes	0.82	

31 25 14 26-0016 Hay And Straw Bales *(31 25 14 26)*

Note: Includes trench for placement, and stakes.

31 25 14 26-0017	LF	Place Sterlized Straw Bales	3.84	
		Note: Includes securing in ground with stakes.		
31 25 14 26-0018	LF	Place Hay Bales	3.66	
		Note: Includes securing in ground with stakes.		
31 25 14 26-0019	LF	Removal Of Hay Or Straw Bales	1.47	
		Note: Includes removal of stakes.		

31 25 14 26-0020 Sediment Logs (Degradable) *(31 25 14 26)*

31 25 14 26-0021 Sediment Logs (Degradable) *(31 25 14 26-0020)*

Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.

31 25 14 26-0022	LF	12" Sediment Log	8.08	
31 25 14 26-0023	LF	20" Sediment Log	9.43	

31 25 14 26-0024 Wattles (Degradable) With UV Stabilizied Synthetic Netting *(31 25 14 26-0020)*

Note: Includes trench for placement, 24" wood staking at 4' on-center

31 25 14 26-0025	EA	Wattles (Sterile Straw Filled Rolls), 9" x 25'	148.12	
31 25 14 26-0026	EA	Wattles (Sterile Straw Filled Rolls), 12" x 20'	139.36	

31 25 14 26-0027 Fiber Roll (CALTRANS Type 1) *(31 25 14 26)*

Note: Includes furrow trench for placement, 24" wood staking at 4' on-center.

31 25 14 26-0028	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	6.27	
		For >1,000 To 10,000, Deduct	*-0.73*	
		For >10,000, Deduct	*-1.23*	
31 25 14 26-0029	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	7.06	
		For >1,000 To 10,000, Deduct	*-0.75*	
		For >10,000, Deduct	*-1.27*	
31 25 14 26-0030	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	8.81	
		For >1,000 To 10,000, Deduct	*-0.89*	
		For >10,000, Deduct	*-1.52*	

31 25 14 26-0031 Fiber Roll (CALTRANS Type 2) *(31 25 14 26)*

Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.

31 25 14 26-0032	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	5.35	
		For >1,000 To 10,000, Deduct	*-0.59*	
		For >10,000, Deduct	*-1.00*	
31 25 14 26-0033	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	6.10	
		For >1,000 To 10,000, Deduct	*-0.61*	
		For >10,000, Deduct	*-1.03*	
31 25 14 26-0034	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	7.15	
		For >1,000 To 10,000, Deduct	*-0.65*	
		For >10,000, Deduct	*-1.10*	

31 25 14 26-0035 Inlet Protection Sediment Bags *(31 25 14 26)*

Note: Includes removal, cleaning, and replacement per each location.

31 25 14 26-0036	EA	2' x 2' x 3' Inlet Protection Sediment Bag	50.75	
31 25 14 26-0037	EA	2' x 3' x 3' Inlet Protection Sediment Bag	62.80	
31 25 14 26-0038	EA	2' x 4' x 3' Inlet Protection Sediment Bag	76.64	

31 30 Earthwork Methods *(31)*

31 31 Soil Treatment *(31 30)*

31 31 16 Termite Control *(31 31)*

31 31 16 13 Chemical Termite Control *(31 31 16)*

31 31 16 13-0001 Commercial Use *(31 31 16 13)*

31 31 16 13-0002	SF	Termite Pretreatment, Commercial Soil Poisoning Under Slab	0.85	
31 31 16 13-0003	SF	Termite Pretreatment, Commercial Slab And Walls	0.85	

31 31 16 13-0004 Residential Use *(31 31 16 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 31 16 13-0005	SF	Termite Pretreatment, Residential General Spraying Walls And Slab	0.82	
31 31 16 13-0006	SF	Termite Treatment, Existing Residential Structure	1.13	

31 31 19 Vegetation Control *(31 31)*

31 31 19 13 Chemical Vegetation Control *(31 31 19)*

31 31 19 13-0001 Soil Sterilants *(31 31 19 13)*

31 31 19 13-0002	MSF	Soil Sterilant	23.40	
		Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.		
		For >45 To 90, Deduct		*-0.43*
		For >90 To 225, Deduct		*-2.03*
		For >225, Deduct		*-2.89*

31 32 Soil Stabilization *(31 30)*

31 32 13 Soil Mixing Stabilization *(31 32)*

31 32 13 16 Cement Soil Stabilization *(31 32 13)*

31 32 13 16-0001 Cementitious Soil Binder *(31 32 13 16)*

31 32 13 16-0002	CY	Cementitious Soil Binder, 4% Cement Mix By Volume	35.11
31 32 13 16-0003	CY	Cementitious Soil Binder, 6% Cement Mix By Volume	40.20
31 32 13 16-0004	CY	Cementitious Soil Binder, 9% Cement Mix By Volume	48.57
31 32 13 16-0005	CY	Cementitious Soil Binder, 12% Cement Mix By Volume	56.82

31 32 13 19 Lime Soil Stabilization *(31 32 13)*

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

31 32 13 19-0001 Lime Slurry *(31 32 13 19)*

31 32 13 19-0002	LCY	Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume	32.39	
31 32 13 19-0003	TON	Cement Stabilized Base Material	125.91	
31 32 13 19-0004	CWT	Lime For Soil Stabilization	20.50	
		Note: Excludes the cost for spreading or backfilling		
31 32 13 19-0005	LCY	Roller, Grader - Lime Stabilization	16.76	
31 32 13 19-0006	LCY	Roller, Grader - Cement Stabilization	3.84	

31 32 13 19-0007 Lime Stabilized Subgrade *(31 32 13 19)*

Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).

31 32 13 19-0008	SY	6" Thick Lime Stabilized Subgrade, 25 LB	11.99	
		For 4% Lime Instead Of 5%, Deduct		*-0.36*
		For 6% Lime Instead Of 5%, Add		*0.36*
31 32 13 19-0009	SY	7" Thick Lime Stabilized Subgrade, 29 LB	13.91	
		For 4% Lime Instead Of 5%, Deduct		*-0.42*
		For 6% Lime Instead Of 5%, Add		*0.42*
31 32 13 19-0010	SY	8" Thick Lime Stabilized Subgrade, 33 LB	15.87	
		For 4% Lime Instead Of 5%, Deduct		*-0.48*
		For 6% Lime Instead Of 5%, Add		*0.48*

31 32 13 29 Liquid Soil Stabilization *(31 32 13)*

31 32 13 29-0001	GAL	Polyacrylamide And Calcium Solution	2.40	

31 32 19 Geosynthetic Soil Stabilization and Layer Separation *(31 32)*

31 32 19 13 Geogrid Soil Stabilization *(31 32 19)*

31 32 19 13-0001 Geogrid Fabrics *(31 32 19 13)*

Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.

31 32 19 13-0002	SY	5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)	2.82	
		For Up To 50, Add		*0.67*
		For >50 To 150, Add		*0.49*
		For >150 To 250, Add		*0.32*
		For >250 To 500, Add		*0.16*
31 32 19 13-0003	SY	6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)	3.20	
		For Up To 50, Add		*0.75*
		For >50 To 150, Add		*0.55*
		For >150 To 250, Add		*0.36*
		For >250 To 500, Add		*0.18*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 13-0004	SY	8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)	3.48	
		For Up To 50, Add	*0.81*	
		For >50 To 150, Add	*0.60*	
		For >150 To 250, Add	*0.39*	
		For >250 To 500, Add	*0.19*	
31 32 19 13-0005	SY	12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)	4.96	
		For Up To 50, Add	*1.11*	
		For >50 To 150, Add	*0.82*	
		For >150 To 250, Add	*0.54*	
		For >250 To 500, Add	*0.27*	
31 32 19 13-0006	SY	14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)	5.65	
		For Up To 50, Add	*1.25*	
		For >50 To 150, Add	*0.93*	
		For >150 To 250, Add	*0.61*	
		For >250 To 500, Add	*0.30*	
31 32 19 13-0007	SY	4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	2.86	
		For Up To 50, Add	*0.67*	
		For >50 To 150, Add	*0.50*	
		For >150 To 250, Add	*0.32*	
		For >250 To 500, Add	*0.16*	
31 32 19 13-0008	SY	5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	4.14	
		For Up To 50, Add	*0.93*	
		For >50 To 150, Add	*0.69*	
		For >150 To 250, Add	*0.45*	
		For >250 To 500, Add	*0.22*	

31 32 19 16 Geotextile Soil Stabilization *(31 32 19)*

31 32 19 16-0001 Nonwoven Polypropylene Geotextiles *(31 32 19 16)*

Note: For drainage, filtration and separation.

31 32 19 16-0002	SY	3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS)	0.89	
		For Up To 50, Add	*0.22*	
		For >50 To 150, Add	*0.16*	
		For >150 To 250, Add	*0.10*	
		For >250 To 500, Add	*0.05*	
31 32 19 16-0003	SY	3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS)	0.95	
		For Up To 50, Add	*0.23*	
		For >50 To 150, Add	*0.17*	
		For >150 To 250, Add	*0.11*	
		For >250 To 500, Add	*0.05*	
31 32 19 16-0004	SY	4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS)	1.02	
		For Up To 50, Add	*0.24*	
		For >50 To 150, Add	*0.18*	
		For >150 To 250, Add	*0.12*	
		For >250 To 500, Add	*0.06*	
31 32 19 16-0005	SY	4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS)	1.09	
		For Up To 50, Add	*0.26*	
		For >50 To 150, Add	*0.19*	
		For >150 To 250, Add	*0.12*	
		For >250 To 500, Add	*0.06*	
31 32 19 16-0006	SY	6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS)	1.29	
		For Up To 50, Add	*0.30*	
		For >50 To 150, Add	*0.22*	
		For >150 To 250, Add	*0.14*	
		For >250 To 500, Add	*0.07*	
31 32 19 16-0007	SY	7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS)	1.51	
		For Up To 50, Add	*0.35*	
		For >50 To 150, Add	*0.26*	
		For >150 To 250, Add	*0.17*	
		For >250 To 500, Add	*0.08*	
31 32 19 16-0008	SY	8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS)	1.66	
		For Up To 50, Add	*0.38*	
		For >50 To 150, Add	*0.28*	
		For >150 To 250, Add	*0.18*	
		For >250 To 500, Add	*0.09*	
31 32 19 16-0009	SY	10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)	2.03	
		For Up To 50, Add	*0.45*	
		For >50 To 150, Add	*0.34*	
		For >150 To 250, Add	*0.22*	
		For >250 To 500, Add	*0.11*	
31 32 19 16-0010	SY	16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric	4.40	
		For Up To 50, Add	*0.93*	
		For >50 To 150, Add	*0.69*	
		For >150 To 250, Add	*0.46*	
		For >250 To 500, Add	*0.23*	

31 32 19 16-0011 Woven Geotextiles Fabric *(31 32 19 16)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0012	SY	200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	1.26	
		For Up To 50, Add	*0.29*	
		For >50 To 150, Add	*0.22*	
		For >150 To 250, Add	*0.14*	
		For >250 To 500, Add	*0.07*	
31 32 19 16-0013	SY	315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	1.75	
		For Up To 50, Add	*0.39*	
		For >50 To 150, Add	*0.29*	
		For >150 To 250, Add	*0.19*	
		For >250 To 500, Add	*0.09*	
31 32 19 16-0014	SY	4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	3.05	
		For Up To 50, Add	*0.66*	
		For >50 To 150, Add	*0.49*	
		For >150 To 250, Add	*0.32*	
		For >250 To 500, Add	*0.16*	
31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%)	2.98	
		For Up To 50, Add	*0.64*	
		For >50 To 150, Add	*0.48*	
		For >150 To 250, Add	*0.31*	
		For >250 To 500, Add	*0.16*	
31 32 19 16-0016	SY	6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF)	2.61	
		For Up To 50, Add	*0.57*	
		For >50 To 150, Add	*0.42*	
		For >150 To 250, Add	*0.28*	
		For >250 To 500, Add	*0.14*	
31 32 19 16-0017	SY	9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF)	2.78	
		For Up To 50, Add	*0.60*	
		For >50 To 150, Add	*0.45*	
		For >150 To 250, Add	*0.29*	
		For >250 To 500, Add	*0.15*	
31 32 19 16-0018	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF)	3.54	
		For Up To 50, Add	*0.76*	
		For >50 To 150, Add	*0.56*	
		For >150 To 250, Add	*0.37*	
		For >250 To 500, Add	*0.19*	
31 32 19 16-0019	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	5.02	
		For Up To 50, Add	*1.05*	
		For >50 To 150, Add	*0.79*	
		For >150 To 250, Add	*0.52*	
		For >250 To 500, Add	*0.26*	

31 32 19 16-0020 Geomembranes *(31 32 19 16)*

31 32 19 16-0021 Polyvinyl Chloride (PVC) Geomembrane *(31 32 19 16-0020)*

31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.00
31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.15
31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.37
31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.64
31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.87
31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.04
31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.21
31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.44
31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.65

31 32 19 16-0031 High Density Polyethylene (HDPE) Geomembrane *(31 32 19 16-0020)*

31 32 19 16-0032	SF	20 Mil High Density Polyethylene Membrane (US Fabrics)	0.85
31 32 19 16-0033	SF	30 Mil High Density Polyethylene Membrane (US Fabrics)	1.07
31 32 19 16-0034	SF	40 Mil High Density Polyethylene Membrane (US Fabrics)	1.26
31 32 19 16-0035	SF	50 Mil High Density Polyethylene Membrane (US Fabrics)	2.07
31 32 19 16-0036	SF	60 Mil High Density Polyethylene Membrane (US Fabrics)	1.60
31 32 19 16-0037	SF	80 Mil High Density Polyethylene Membrane (US Fabrics)	1.98
31 32 19 16-0038	SF	100 Mil High Density Polyethylene Membrane (US Fabrics)	2.35
31 32 19 16-0039	SF	120 Mil High Density Polyethylene Membrane (US Fabrics)	4.25
31 32 19 16-0040	SF	140 Mil High Density Polyethylene Membrane (US Fabrics)	4.41

31 32 19 26 Geoweb Cellular Confinement System *(31 32 19)*

Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.

31 32 19 26-0001 Geoweb Cellular Confinement System *(31 32 19 26)*

Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.

31 32 19 26-0002	SF	4" Geoweb Cellular Confinement System (Presto Geosystems)	5.36
		For >20,000, Deduct	*-0.10*
		For >2:1 Slope, Add	*1.13*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 26-0003	SF	6" Geoweb Cellular Confinement System (Presto Geosystems)	6.23	
		For >20,000, Deduct	*-0.14*	
		For >2:1 Slope, Add	*1.13*	
31 32 19 26-0004	SF	8" Geoweb Cellular Confinement System (Presto Geosystems)	7.26	
		For >20,000, Deduct	*-0.19*	
		For >2:1 Slope, Add	*1.13*	

31 32 36 Soil Nailing *(31 32)*

31 32 36 11 Soil Nailing Stabilization *(31 32 36)*

31 32 36 11-0001 Landslide and Slip-Out Stabilization *(31 32 36 11)*

Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.

31 32 36 11-0002 BioWall® *(31 32 36 11-0001)*

Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 11-0003	SF	BioWall® Construction	21.00

31 32 36 11-0004 GeoSynthetically Confined Soil™ (GCS®) Components *(31 32 36 11-0001)*

Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or 3/4 in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of th See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 11-0005	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Construction Note: Installation sold per square face foot (excludes materials)	10.75
31 32 36 11-0006	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10'' x 120'')	96.00
31 32 36 11-0007	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8'' x 8'' x 16'')	4.50
31 32 36 11-0008	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile	0.75

31 32 36 11-0009 Turf *(31 32 36 11-0001)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 11-0010 Permanent Turf Reinforcing Mat (TRM) *(31 32 36 11-0009)*

Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.

31 32 36 11-0011 SF Permanent Turf Reinforcement Mat 1.25
Note: sold per square face foot

31 32 36 11-0012 Biodegradable Turf Reinforcing Mat (TRM) *(31 32 36 11-0009)*

Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.

31 32 36 11-0013 SF Biodegradable Turf Reinforcement Mat 0.50
Note: sold per square face foot

31 32 36 11-0014 Shotcrete or Gunite *(31 32 36 11-0001)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 11-0015 Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ *(31 32 36 11-0014)*

Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement

AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate

AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplastisizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash

AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8"

90-100 No. 4 70-85 No. 8

100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying with

31 32 36 11-0016 SFI Wet-Mix Reinforced Shotcrete 4.25
Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 11-0017 Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ *(31 32 36 11-0014)*

Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement

AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate

AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00

Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplastisizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash

AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8

100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. U

31 32 36 11-0018 SFI Dry-Mix Reinforced Gunite 5.75
Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).

31 32 36 11-0019 Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ *(31 32 36 11-0014)*

31 32 36 11-0020 SFI Steel Fiber Reinforcement 1.00
Note: sold per inch thickness over one square face foot of area

31 32 36 11-0021 Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® *(31 32 36 11-0001)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 11-0022 Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® *(31 32 36 11-0021)*

Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.

31 32 36 11-0023 SF High Capacity Diamond Mesh 10.00
Note: sold per square face foot

31 32 36 11-0024 SF Double Twist Wire Mesh 12.50
Note: sold per square face foot

31 32 36 11-0025 Steel Plates *(31 32 36 11-0021)*

31 32 36 11-0026 EA Galvanized Steel Plates (8x8) 31.50
31 32 36 11-0027 EA Galvanized Steel Plates (10x10) 40.00
31 32 36 11-0028 EA Galvanized Steel Plates (12x12) 54.00

31 32 36 11-0029 Drilled Horizontal Drains *(31 32 36 11-0001)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0030	LF	Drilled PVC Horizontal Drains (up to 2" Diameter)	18.75	
31 32 36 11-0031	LF	Stripdrain (6" Wide)	3.25	
31 32 36 11-0032	LF	PVC Drain Collector Pipe System	14.50	

31 32 36 11-0033 Rockfall Stabilization *(31 32 36 11-0001)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 11-0034	SF	Scaling	3.75	
31 32 36 11-0035	SF	Trim Blasting	155.00	
31 32 36 11-0036	SY	Slope Drape - Double Twist Wire Mesh	41.00	
31 32 36 11-0037	SY	Slope Drape - Cable Net	130.00	
31 32 36 11-0038	SY	Slope Drape - Tecco Mesh (4mm)	130.00	
31 32 36 11-0039	LF	Temporary Rockfall Barrier	470.00	
31 32 36 11-0040	LF	Low Reach Drilling (<25 feet)	21.00	
31 32 36 11-0041	LF	High Reach Drilling (>25 feet)	40.00	
31 32 36 11-0042	LF	Limited Access Drilling	94.00	
31 32 36 11-0043	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized)	16.75	
31 32 36 11-0044	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized)	26.50	
31 32 36 11-0045	LF	F&I Rock Dowel - 8# Grade 150 All-Thread Bar (Galvanized)	21.00	
31 32 36 11-0046	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized)	31.50	
31 32 36 11-0047	EA	Rock Anchor Testing	795.00	

31 32 36 11-0048 Mobilization / Demobilization *(31 32 36 11-0001)*

31 32 36 11-0049	EA	Mobilization	16,675.00	
31 32 36 11-0050	EA	Limited Access, Rockfall And Compaction Grouting Mobilization, in addition to Mobilization	9,775.00	

31 32 36 11-0051 Daily Crew Rates (DCR) *(31 32 36 11-0001)*

31 32 36 11-0052	DAY	Soils Stabilization Crew, Per Workday	10,550.00	
31 32 36 11-0053	DAY	Rockfall Stabilization Crew, Per Workday	9,350.00	
31 32 36 11-0054	DAY	Compaction Grouting Crew, Per Workday	12,600.00	
31 32 36 11-0055	EA	Additional Crew Member/Crew	2,100.00	
31 32 36 11-0056	EA	Out of State Crew Rotation	4,350.00	

31 32 36 13 Driven Soil Nailing *(31 32 36)*

31 32 36 13-0001 Large Diameter Micropiles *(31 32 36 13)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing)	85.85	
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing)	118.22	
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing)	151.32	
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing)	193.69	

31 32 36 16 Grouted Soil Nailing *(31 32 36)*

31 32 36 16-0001 Grouting *(31 32 36 16)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 16-0002 Compaction Grouting *(31 32 36 16-0001)*

Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.

31 32 36 16-0003	LF	Compaction Grouting Casing Installation	21.00	
31 32 36 16-0004	CF	Compaction Grout Injection for Soils Densification	16.00	
31 32 36 16-0005	CF	Compaction Grout For Void Fill	16.00	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 16-0006 Polyurethane Grouting *(31 32 36 16-0001)*

Note: A. The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi B. Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.

31 32 36 16-0007 LB Polyurethane Grouting For Void Fill and Re-Leveling 9.75

31 32 36 19 Corrosion-Protected Soil Nailing *(31 32 36)*

31 32 36 19-0001 Self-Drilling SuperNails® / SuperMicropiles™ *(31 32 36 19)*

Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 19-0002 Self-Drilling SuperNails® *(31 32 36 19-0001)*

31 32 36 19-0003 EA Self Drilling SuperNails® up to 20-ft. 600.00
31 32 36 19-0004 EA Self Drilling SuperNails® up to 30-ft. 825.00
31 32 36 19-0005 EA Self Drilling SuperNails® up to 40-ft. 1,160.00
31 32 36 19-0006 EA Self Drilling SuperNails® up to 50-ft. 1,410.00
31 32 36 19-0007 EA Self Drilling SuperNails® up to 60-ft. 1,685.00
31 32 36 19-0008 EA Self Drilling SuperNails® up to 70-ft. 1,945.00
31 32 36 19-0009 EA Self Drilling SuperNails® up to 80-ft. 2,220.00
31 32 36 19-0010 EA Additional Cost for 10' High Capacity X-51 Bar 95.00

31 32 36 19-0011 SuperNail® Testing *(31 32 36 19)*

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 19-0012 EA SuperNail® Proof Testing 695.00
31 32 36 19-0013 EA SuperNail® Verification Testing 1,385.00

31 32 36 26 Launched Soil Nailing *(31 32 36)*

31 32 36 26-0001 Launched Soil Nails™ *(31 32 36 26)*

Note: Furnish Launched Soil Nails™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Alternately, the tube may be composed of fiberglass (1.5 inch outside diameter, 0.5 inch wall thickness Strongwell EXTREN Series 625 Vinyl Ester fiberglass Furnish equipment and incidentals necessary to complete the work. Insert Launched Soil Nails™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 26-0002 EA GalvaDized™ SuperDrain™ 550.00
Note: perforated GalvaDized™ steel tube up to 20 ft. length.
31 32 36 26-0003 EA Fiberglass SuperNail® 565.00
Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.
31 32 36 26-0004 EA GalvaDized™ SuperNail® 435.00
Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.
31 32 36 26-0005 EA Temporary Launched Soil Nail 345.00
Note: bare steel tube up to 20 ft. length.
31 32 36 26-0006 EA Fiberglass SuperDrain™ 450.00
Note: perforated fiberglass tube up to 20 ft. length.
31 32 36 26-0007 EA GalvaDized™ SuperDrain™ 345.00
Note: perforated GalvaDized™ steel tube up to 20 ft. length.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 29 Drilled Soil Nailing *(31 32 36)*

31 32 36 29-0001 Drilled SuperNails® (Permanently Cased Soil Nails) *(31 32 36 29)*

Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0051 for Daily Crew Rates (DCR).

31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® up to 20 ft. length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	500.00	
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® up to 30 ft. length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	690.00	
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® up to 40 ft. length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	785.00	
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® up to 50 ft. length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	875.00	
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® up to 60 ft. length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,035.00	
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® up to 70 ft. length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,190.00	
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® up to 80 ft. length Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,345.00	

31 35 Slope Protection *(31 30)*

31 35 19 Geosynthetic Slope Protection *(31 35)*

31 35 19 19 Slope Protection with Mulch Control Netting *(31 35 19)*

31 35 19 19-0001 Erosion Control Fabric *(31 35 19 19)*

31 35 19 19-0002	SY	26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900)	3.69	

31 36 Gabions *(31 30)*

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

31 36 13 Gabion Boxes *(31 36)*

31 36 13 00-0001 Stone Filled Gabion Slope Protection *(31 36 13)*

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002	SY	6" Deep Stone Filled Gabion Slope Protection	61.41	
31 36 13 00-0003	SY	9" Deep Stone Filled Gabion Slope Protection	72.14	
31 36 13 00-0004	SY	12" Deep Stone Filled Gabion Slope Protection	86.23	
31 36 13 00-0005	SY	15" Deep Stone Filled Gabion Slope Protection	102.18	
31 36 13 00-0006	SY	18" Deep Stone Filled Gabion Slope Protection	120.08	
31 36 13 00-0007	SY	24" Deep Stone Filled Gabion Slope Protection	164.11	
31 36 13 00-0008	SY	36" Deep Stone Filled Gabion Slope Protection	207.17	

31 37 Riprap *(31 30)*

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

31 37 13 Machined Riprap *(31 37)*

31 37 13 00-0001 Random - Filter Stone *(31 37 13)*

31 37 13 00-0002	CY	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap	54.40	
		For Chinking Material, Add		*13.63*
31 37 13 00-0003	CY	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap	62.87	
		For Chinking Material, Add		*13.63*
31 37 13 00-0004	CY	>100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap	66.85	
		For Chinking Material, Add		*13.63*
31 37 13 00-0005	CY	>200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap	71.39	
		For Chinking Material, Add		*13.63*
31 37 13 00-0006	CY	>300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap	75.06	
		For Chinking Material, Add		*13.63*
31 37 13 00-0007	CY	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap	81.04	
31 37 13 00-0008	CY	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	99.21	
31 37 13 00-0009	TON	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap	36.21	
31 37 13 00-0010	TON	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap	41.59	
31 37 13 00-0011	TON	>100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap	44.12	
31 37 13 00-0012	TON	>200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap	47.00	
31 37 13 00-0013	TON	>300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap	49.33	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 37 13 00-0014	TON	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap	53.17	
31 37 13 00-0015	TON	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	67.44	
31 37 13 00-0016	TON	Spread Of Rip Rap By Machine Note: Excludes material	14.89	
31 37 13 00-0017	TON	Key Rip Rap Note: Excludes material.	111.66	
31 37 13 00-0018	CY	Grout For Rip Rap	188.93	
31 37 13 00-0019	TON	Additional Cost For Placement Of Rip-Rap By Barge Instead Of Truck	131.49	

31 40 Shoring and Underpinning *(31)*

31 41 Shoring *(31 40)*

31 41 13 Timber Shoring *(31 41)*

31 41 13 00-0001 Wood Sheet Piling *(31 41 13)*

31 41 13 00-0002 Pull And Salvage *(31 41 13 00-0001)*

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003	SF	8' Deep Excavation, Wood Shoring, Pull And Salvage	14.34	
		For Wood Sheeting Left In Place	*0.97*	
31 41 13 00-0004	SF	10' Deep Excavation, Wood Shoring, Pull And Salvage	15.39	
		For Wood Sheeting Left In Place	*0.83*	
31 41 13 00-0005	SF	12' Deep Excavation, Wood Shoring, Pull And Salvage	16.58	
		For Wood Sheeting Left In Place	*0.69*	
31 41 13 00-0006	SF	14' Deep Excavation, Wood Shoring, Pull And Salvage	17.84	
		For Wood Sheeting Left In Place	*0.52*	
31 41 13 00-0007	SF	16' Deep Excavation, Wood Shoring, Pull And Salvage	19.21	
		For Wood Sheeting Left In Place	*0.34*	
31 41 13 00-0008	SF	18' Deep Excavation, Wood Shoring, Pull And Salvage	20.67	
		For Wood Sheeting Left In Place	*0.10*	
31 41 13 00-0009	SF	20' Deep Excavation, Wood Shoring, Pull And Salvage	22.28	
		For Wood Sheeting Left In Place	*-0.15*	

31 41 16 Sheet Piling *(31 41)*

31 41 16 13 Steel Sheet Piling *(31 41 16)*

31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage *(31 41 16 13)*

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002	TON	Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage	1,933.30	
		For Standard Sheeting Left In Place, Add	*1,083.19*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	*1,533.15*	
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	*112.49*	
		For High Strength Sheeting 55,000 PSI Grade, Add	*124.99*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	*387.47*	
		For Each Additional Month >3 Months, Add	*62.50*	
31 41 16 13-0003	TON	Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage	2,003.80	
		For Standard Sheeting Left In Place, Add	*1,047.94*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	*1,497.90*	
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	*112.49*	
		For High Strength Sheeting 55,000 PSI Grade, Add	*124.99*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	*387.47*	
		For Each Additional Month >3 Months, Add	*62.50*	
31 41 16 13-0004	TON	Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,331.50	
		For Standard Sheeting Left In Place, Add	*884.09*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	*1,334.05*	
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	*112.49*	
		For High Strength Sheeting 55,000 PSI Grade, Add	*124.99*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	*387.47*	
		For Each Additional Month >3 Months, Add	*62.50*	
31 41 16 13-0005	TON	Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,646.84	
		For Standard Sheeting Left In Place, Add	*726.42*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	*1,176.38*	
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	*112.49*	
		For High Strength Sheeting 55,000 PSI Grade, Add	*124.99*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	*387.47*	
		For Each Additional Month >3 Months, Add	*62.50*	
31 41 16 13-0006	TON	Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	2,832.33	
		For Standard Sheeting Left In Place, Add	*633.67*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	*1,083.64*	
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	*112.49*	
		For High Strength Sheeting 55,000 PSI Grade, Add	*124.99*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	*387.47*	
		For Each Additional Month >3 Months, Add	*62.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 41 16 13-0007	TON	Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage	3,021.54	
		For Standard Sheeting Left In Place, Add	*539.07*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	*989.03*	
		For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	*112.49*	
		For High Strength Sheeting 55,000 PSI Grade, Add	*124.99*	
		For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	*387.47*	
		For Each Additional Month >3 Months, Add	*62.50*	

31 45 Vibroflotation and Densification *(31 40)*

31 45 13 Vibroflotation *(31 45)*

31 45 13 00-0001	LCY	Soil Stabilization, Vibroflotation	14.10	

31 50 Excavation Support and Protection *(31)*

31 52 Cofferdams *(31 50)*

31 52 21 Portable Cofferdams *(31 52)*

31 52 21 00-0001 Portable Cofferdams *(31 52 21)*

Note: Excludes dewatering and pumps.

31 52 21 00-0002 Portable Cofferdam Rental *(31 52 21 00-0001)*

Note: Excludes delivery and installation.

31 52 21 00-0003	LF	3' High x 7' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	31.96	
31 52 21 00-0004	LF	4' High x 9' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	40.91	
31 52 21 00-0005	LF	5' High x 11' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	57.52	
31 52 21 00-0006	LF	6' High x 13' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	74.14	
31 52 21 00-0007	LF	8' High x 17' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	95.87	
31 52 21 00-0008	LF	10' High x 21' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	191.74	
31 52 21 00-0009	LF	12' High x 25' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	268.44	
31 52 21 00-0010	LF	16' High x 33' Width, Portable Cofferdam, Rental Per Month Note: Minimum 40'	379.66	

31 52 21 00-0011 Portable Cofferdam Delivery And Set-up *(31 52 21 00-0001)*

Note: Excludes crane usage where required. See CSI section 01 22 23 00-0841 for crane lifting equipment.

31 52 21 00-0012	LF	Up To 5' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	10.25	
31 52 21 00-0013	LF	6' To 8' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	16.40	
31 52 21 00-0014	LF	10' To 12' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	24.61	
31 52 21 00-0015	LF	16' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	32.82	
31 52 21 00-0016	LF	Up To 5' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	6.15	
31 52 21 00-0017	LF	6' To 8' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	10.25	
31 52 21 00-0018	LF	10' To 12' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	16.40	
31 52 21 00-0019	LF	16' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	22.56	

31 52 21 00-0020 Portable Cofferdam Repositioning *(31 52 21 00-0001)*

31 52 21 00-0021	LF	Up To 5' High, Portable Cofferdam, Repositioning	5.13	
31 52 21 00-0022	LF	6' To 8' High, Portable Cofferdam, Repositioning	8.20	
31 52 21 00-0023	LF	10' To 12' High, Portable Cofferdam, Repositioning	12.31	
31 52 21 00-0024	LF	16' High, Portable Cofferdam, Repositioning	16.40	

31 60 Special Foundations and Load-bearing Elements *(31)*

31 62 Driven Piles *(31 60)*

31 62 13 Concrete Piles *(31 62)*

31 62 13 23 Prestressed Concrete Piles *(31 62 13)*

31 62 13 23-0001 Square Prestressed Driven Concrete Piles *(31 62 13 23)*

31 62 13 23-0002	VLF	10" Square Prestressed Driven Concrete Pile	25.54	
		For Piles Driven In Water, Add	*13.10*	
31 62 13 23-0003	VLF	12" Square Prestressed Driven Concrete Pile	31.82	
		For Piles Driven In Water, Add	*14.72*	
31 62 13 23-0004	VLF	14" Square Prestressed Driven Concrete Pile	38.36	
		For Piles Driven In Water, Add	*16.15*	
31 62 13 23-0005	VLF	16" Square Prestressed Driven Concrete Pile	46.75	
		For Piles Driven In Water, Add	*17.87*	
31 62 13 23-0006	VLF	18" Square Prestressed Driven Concrete Pile	56.51	
		For Piles Driven In Water, Add	*19.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 13 23-0007	VLF	20" Square Prestressed Driven Concrete Pile	65.23	
		For Piles Driven In Water, Add	*21.91*	
31 62 13 23-0008	VLF	24" Square Prestressed Driven Concrete Pile	82.82	
		For Piles Driven In Water, Add	*25.07*	

31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles *(31 62 13 23)*

31 62 13 23-0010	VLF	12" Octagonal Prestressed Driven Concrete Pile	41.69	
		For Piles Driven In Water, Add	*15.03*	
31 62 13 23-0011	VLF	14" Octagonal Prestressed Driven Concrete Pile	52.31	
		For Piles Driven In Water, Add	*16.77*	
31 62 13 23-0012	VLF	16" Octagonal Prestressed Driven Concrete Pile	63.04	
		For Piles Driven In Water, Add	*18.62*	
31 62 13 23-0013	VLF	18" Octagonal Prestressed Driven Concrete Pile	76.36	
		For Piles Driven In Water, Add	*20.83*	
31 62 13 23-0014	VLF	20" Octagonal Prestressed Driven Concrete Pile	81.19	
		For Piles Driven In Water, Add	*22.33*	
31 62 13 23-0015	VLF	24" Octagonal Prestressed Driven Concrete Pile	86.21	
		For Piles Driven In Water, Add	*24.01*	

31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles *(31 62 13 23)*

31 62 13 23-0017	VLF	12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	31.39	
		For Piles Driven In Water, Add	*13.40*	
31 62 13 23-0018	VLF	14" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	36.63	
		For Piles Driven In Water, Add	*14.53*	
31 62 13 23-0019	VLF	16" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	42.81	
		For Piles Driven In Water, Add	*15.82*	
31 62 13 23-0020	VLF	18" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	48.11	
		For Piles Driven In Water, Add	*17.12*	
31 62 13 23-0021	VLF	20" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	59.46	
		For Piles Driven In Water, Add	*19.14*	
31 62 13 23-0022	VLF	24" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	72.56	
		For Piles Driven In Water, Add	*21.47*	

31 62 16 Steel Piles *(31 62)*

31 62 16 16 Steel H Piles *(31 62 16)*

31 62 16 16-0001 Rolled, Driven Steel H Piles *(31 62 16 16)*

31 62 16 16-0002	VLF	8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile	49.03	
		For Piles Driven In Water, Add	*16.44*	
31 62 16 16-0003	VLF	10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile	55.71	
		For Piles Driven In Water, Add	*17.69*	
31 62 16 16-0004	VLF	10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile	70.80	
		For Piles Driven In Water, Add	*19.19*	
31 62 16 16-0005	VLF	12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile	67.19	
		For Piles Driven In Water, Add	*19.20*	
31 62 16 16-0006	VLF	12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile	77.25	
		For Piles Driven In Water, Add	*20.21*	
31 62 16 16-0007	VLF	12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile	89.46	
		For Piles Driven In Water, Add	*22.46*	
31 62 16 16-0008	VLF	12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile	99.52	
		For Piles Driven In Water, Add	*23.47*	
31 62 16 16-0009	VLF	14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile	88.83	
		For Piles Driven In Water, Add	*22.73*	
31 62 16 16-0010	VLF	14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile	105.93	
		For Piles Driven In Water, Add	*24.44*	
31 62 16 16-0011	VLF	14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile	119.28	
		For Piles Driven In Water, Add	*26.93*	
31 62 16 16-0012	VLF	14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile	135.37	
		For Piles Driven In Water, Add	*28.54*	

31 62 16 16-0013 Splices, Caps, And Points For H-Piles *(31 62 16 16)*

31 62 16 16-0014 Rolled Steel H Pile Splices *(31 62 16 16-0013)*

31 62 16 16-0015	EA	8" Rolled Steel H Pile Splice	350.13	
31 62 16 16-0016	EA	10" Rolled Steel H Pile Splice	421.58	
31 62 16 16-0017	EA	12" Rolled Steel H Pile Splice	554.44	
31 62 16 16-0018	EA	14" Rolled Steel H Pile Splice	590.17	

31 62 16 16-0019 Rolled Steel H Driving Caps *(31 62 16 16-0013)*

31 62 16 16-0020	EA	8" Rolled Steel H Driving Cap	5,819.74	
31 62 16 16-0021	EA	10" Rolled Steel H Driving Cap	5,819.74	
31 62 16 16-0022	EA	12" Rolled Steel H Driving Cap	5,870.73	
31 62 16 16-0023	EA	14" Rolled Steel H Driving Cap	8,907.42	

31 62 16 16-0024 Rolled Steel H Standard Pile Points *(31 62 16 16-0013)*

31 62 16 16-0025	EA	8" Rolled Steel H Standard Pile Point	385.86	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0026	EA	10" Rolled Steel H Standard Pile Point	421.58	
31 62 16 16-0027	EA	12" Rolled Steel H Standard Pile Point	554.44	
31 62 16 16-0028	EA	14" Rolled Steel H Standard Pile Point	661.62	
31 62 16 16-0029	EA	10" Rolled Steel H Standard Pile Point	554.44	
31 62 16 16-0030	EA	14" Rolled Steel H Standard Pile Point	730.82	

31 62 16 19 Unfilled Tubular Steel Piles *(31 62 16)*

31 62 16 19-0001 Unfilled Tubular Driven Steel Piles *(31 62 16 19)*

31 62 16 19-0002	VLF	8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile	39.05	
		For Piles Driven In Water, Add	*18.68*	
31 62 16 19-0003	VLF	8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile	44.71	
		For Piles Driven In Water, Add	*19.25*	
31 62 16 19-0004	VLF	8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile	50.82	
		For Piles Driven In Water, Add	*19.86*	
31 62 16 19-0005	VLF	10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile	44.71	
		For Piles Driven In Water, Add	*19.25*	
31 62 16 19-0006	VLF	10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile	50.09	
		For Piles Driven In Water, Add	*19.79*	
31 62 16 19-0007	VLF	10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile	61.97	
		For Piles Driven In Water, Add	*20.98*	
31 62 16 19-0008	VLF	12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile	52.24	
		For Piles Driven In Water, Add	*20.78*	
31 62 16 19-0009	VLF	12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile	58.53	
		For Piles Driven In Water, Add	*21.41*	
31 62 16 19-0010	VLF	12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile	62.03	
		For Piles Driven In Water, Add	*21.76*	
31 62 16 19-0011	VLF	12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile	71.81	
		For Piles Driven In Water, Add	*22.73*	
31 62 16 19-0012	VLF	14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile	56.56	
		For Piles Driven In Water, Add	*22.84*	
31 62 16 19-0013	VLF	14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile	63.68	
		For Piles Driven In Water, Add	*23.55*	
31 62 16 19-0014	VLF	14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile	70.80	
		For Piles Driven In Water, Add	*24.26*	
31 62 16 19-0015	VLF	14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile	77.92	
		For Piles Driven In Water, Add	*24.97*	
31 62 16 19-0016	VLF	16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile	62.94	
		For Piles Driven In Water, Add	*25.48*	
31 62 16 19-0017	VLF	16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile	71.27	
		For Piles Driven In Water, Add	*26.32*	
31 62 16 19-0018	VLF	16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile	87.50	
		For Piles Driven In Water, Add	*27.94*	
31 62 16 19-0019	VLF	18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile	77.19	
		For Piles Driven In Water, Add	*28.53*	
31 62 16 19-0020	VLF	18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile	88.00	
		For Piles Driven In Water, Add	*29.61*	
31 62 16 19-0021	VLF	18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile	108.55	
		For Piles Driven In Water, Add	*31.66*	

31 62 16 19-0022 Splices And Points For Pipe Piles *(31 62 16 19)*

31 62 16 19-0023 Steel Pipe Pile Splices *(31 62 16 19-0022)*

31 62 16 19-0024	EA	8" Diameter, Steel Pipe Pile Splice	241.39	
31 62 16 19-0025	EA	10" Diameter, Steel Pipe Pile Splice	258.33	
31 62 16 19-0026	EA	12" Diameter, Steel Pipe Pile Splice	336.96	
31 62 16 19-0027	EA	14" Diameter, Steel Pipe Pile Splice	353.66	
31 62 16 19-0028	EA	16" Diameter, Steel Pipe Pile Splice	425.87	
31 62 16 19-0029	EA	18" Diameter, Steel Pipe Pile Splice	512.57	

31 62 16 19-0030 Steel Pipe Standard Pile Points *(31 62 16 19-0022)*

31 62 16 19-0031	EA	8" Diameter, Steel Pipe Standard Pile Point	241.55	
31 62 16 19-0032	EA	10" Diameter, Steel Pipe Standard Pile Point	255.12	
31 62 16 19-0033	EA	12" Diameter, Steel Pipe Standard Pile Point	288.61	
31 62 16 19-0034	EA	14" Diameter, Steel Pipe Standard Pile Point	325.91	
31 62 16 19-0035	EA	16" Diameter, Steel Pipe Standard Pile Point	359.82	
31 62 16 19-0036	EA	18" Diameter, Steel Pipe Standard Pile Point	415.39	

31 62 16 19-0037 Steel Pipe Heavy Duty Pile Points *(31 62 16 19-0022)*

31 62 16 19-0038	EA	10" Diameter, Steel Pipe Heavy Duty Pile Point	354.27	
31 62 16 19-0039	EA	12" Diameter, Steel Pipe Heavy Duty Pile Point	371.22	
31 62 16 19-0040	EA	14" Diameter, Steel Pipe Heavy Duty Pile Point	415.91	
31 62 16 19-0041	EA	16" Diameter, Steel Pipe Heavy Duty Pile Point	483.73	
31 62 16 19-0042	EA	18" Diameter, Steel Pipe Heavy Duty Pile Point	544.82	

31 62 19 Timber Piles *(31 62)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 19 00-0001		**Friction Or End Bearing, Driven Treated Wood Piles** *(31 62 19)* Note: 12 LB Penta-treated/CF.		
31 62 19 00-0002	LF	Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	37.23	
		For Piles Driven In Water, Add	*13.98*	
		For Untreated Pile, Deduct	*-9.56*	
		For Each Pile Tip Point, Add	*12.50*	
		For Each Pile Butt, Driving Cap, Add	*20.10*	
		For Each Splice For Pile >50', Add	*139.40*	
31 62 19 00-0003	LF	>30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	38.94	
		For Piles Driven In Water, Add	*15.43*	
		For Untreated Pile, Deduct	*-9.66*	
		For Each Pile Tip Point, Add	*12.50*	
		For Each Pile Butt, Driving Cap, Add	*20.10*	
		For Each Splice For Pile >50', Add	*139.40*	
31 62 19 00-0004	LF	39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	40.99	
		For Piles Driven In Water, Add	*16.41*	
		For Untreated Pile, Deduct	*-10.10*	
		For Each Pile Tip Point, Add	*12.50*	
		For Each Pile Butt, Driving Cap, Add	*20.10*	
		For Each Splice For Pile >50', Add	*139.40*	
31 62 19 00-0005	LF	>49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	43.92	
		For Piles Driven In Water, Add	*18.24*	
		For Untreated Pile, Deduct	*-10.56*	
		For Each Pile Tip Point, Add	*12.50*	
		For Each Pile Butt, Driving Cap, Add	*20.10*	
		For Each Splice For Pile >50', Add	*139.40*	
31 62 19 00-0006	LF	>59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	55.28	
		For Piles Driven In Water, Add	*20.92*	
		For Untreated Pile, Deduct	*-14.13*	
		For Each Pile Tip Point, Add	*12.50*	
		For Each Pile Butt, Driving Cap, Add	*20.10*	
		For Each Splice For Pile >50', Add	*139.40*	
31 62 19 00-0007	LF	>69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	69.35	
		For Piles Driven In Water, Add	*25.40*	
		For Untreated Pile, Deduct	*-18.07*	
		For Each Pile Tip Point, Add	*12.50*	
		For Each Pile Butt, Driving Cap, Add	*20.10*	
		For Each Splice For Pile >50', Add	*139.40*	
31 62 23		**Composite Piles** *(31 62)*		
31 62 23 13		**Concrete-Filled Steel Piles** *(31 62 23)*		
31 62 23 13-0001		**Concrete-Filled Driven Steel Pipe Piles** *(31 62 23 13)* Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.		
31 62 23 13-0002	VLF	8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile	42.35	
		For 5,000 PSI Concrete Grout Fill, Add	*4.98*	
		For Piles Driven In Water, Add	*20.29*	
31 62 23 13-0003	VLF	8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile	48.01	
		For 5,000 PSI Concrete Grout Fill, Add	*5.55*	
		For Piles Driven In Water, Add	*20.86*	
31 62 23 13-0004	VLF	8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile	54.12	
		For 5,000 PSI Concrete Grout Fill, Add	*6.16*	
		For Piles Driven In Water, Add	*21.47*	
31 62 23 13-0005	VLF	10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile	49.52	
		For 5,000 PSI Concrete Grout Fill, Add	*7.07*	
		For Piles Driven In Water, Add	*21.37*	
31 62 23 13-0006	VLF	10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile	54.89	
		For 5,000 PSI Concrete Grout Fill, Add	*7.61*	
		For Piles Driven In Water, Add	*21.91*	
31 62 23 13-0007	VLF	10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile	66.78	
		For 5,000 PSI Concrete Grout Fill, Add	*8.79*	
		For Piles Driven In Water, Add	*23.09*	
31 62 23 13-0008	VLF	12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile	59.00	
		For 5,000 PSI Concrete Grout Fill, Add	*9.60*	
		For Piles Driven In Water, Add	*23.70*	
31 62 23 13-0009	VLF	12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile	65.29	
		For 5,000 PSI Concrete Grout Fill, Add	*10.23*	
		For Piles Driven In Water, Add	*24.33*	
31 62 23 13-0010	VLF	12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile	68.79	
		For 5,000 PSI Concrete Grout Fill, Add	*10.58*	
		For Piles Driven In Water, Add	*24.68*	
31 62 23 13-0011	VLF	12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile	78.58	
		For 5,000 PSI Concrete Grout Fill, Add	*11.56*	
		For Piles Driven In Water, Add	*25.66*	
31 62 23 13-0012	VLF	14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile	65.68	
		For 5,000 PSI Concrete Grout Fill, Add	*11.98*	
		For Piles Driven In Water, Add	*27.38*	
31 62 23 13-0013	VLF	14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile	72.80	
		For 5,000 PSI Concrete Grout Fill, Add	*12.69*	
		For Piles Driven In Water, Add	*28.09*	
31 62 23 13-0014	VLF	14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile	79.92	
		For 5,000 PSI Concrete Grout Fill, Add	*13.40*	
		For Piles Driven In Water, Add	*28.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0015	VLF	14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile	87.04	
		For 5,000 PSI Concrete Grout Fill, Add	*14.11*	
		For Piles Driven In Water, Add	*29.51*	
31 62 23 13-0016	VLF	16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile	72.84	
		For 5,000 PSI Concrete Grout Fill, Add	*14.92*	
		For Piles Driven In Water, Add	*29.33*	
31 62 23 13-0017	VLF	16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile	81.16	
		For 5,000 PSI Concrete Grout Fill, Add	*15.76*	
		For Piles Driven In Water, Add	*30.17*	
31 62 23 13-0018	VLF	16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile	97.40	
		For 5,000 PSI Concrete Grout Fill, Add	*17.38*	
		For Piles Driven In Water, Add	*31.79*	
31 62 23 13-0019	VLF	18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile	89.13	
		For 5,000 PSI Concrete Grout Fill, Add	*19.06*	
		For Piles Driven In Water, Add	*32.75*	
31 62 23 13-0020	VLF	18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile	99.94	
		For 5,000 PSI Concrete Grout Fill, Add	*20.14*	
		For Piles Driven In Water, Add	*33.83*	
31 62 23 13-0021	VLF	18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile	120.49	
		For 5,000 PSI Concrete Grout Fill, Add	*22.19*	
		For Piles Driven In Water, Add	*35.88*	

31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles *(31 62 23 13)*

Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.

31 62 23 13-0023	VLF	12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile	52.65	
		For Piles Driven In Water, Add	*17.58*	
31 62 23 13-0024	VLF	14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile	63.59	
		For Piles Driven In Water, Add	*19.55*	
31 62 23 13-0025	VLF	16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile	71.87	
		For Piles Driven In Water, Add	*21.40*	
31 62 23 13-0026	VLF	18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile	78.16	
		For Piles Driven In Water, Add	*23.21*	

31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles *(31 62 23 13)*

Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.

31 62 23 13-0028	VLF	12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile	51.69	
		For Piles Driven In Water, Add	*17.48*	
31 62 23 13-0029	VLF	14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile	53.15	
		For Piles Driven In Water, Add	*18.51*	
31 62 23 13-0030	VLF	16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile	64.54	
		For Piles Driven In Water, Add	*20.67*	
31 62 23 13-0031	VLF	18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile	74.29	
		For Piles Driven In Water, Add	*22.82*	

31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles *(31 62 23 13)*

31 62 23 13-0033	VLF	8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	31.56	
		For Piles Driven In Water, Add	*13.54*	
		For Thick Wall Shell, Add	*0.05*	
31 62 23 13-0034	VLF	10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	34.86	
		For Piles Driven In Water, Add	*15.02*	
		For Thick Wall Shell, Add	*0.06*	
31 62 23 13-0035	VLF	12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	38.13	
		For Piles Driven In Water, Add	*16.51*	
		For Thick Wall Shell, Add	*0.06*	
31 62 23 13-0036	VLF	14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	41.42	
		For Piles Driven In Water, Add	*17.99*	
		For Thick Wall Shell, Add	*0.07*	
31 62 23 13-0037	VLF	16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile	44.71	
		For Piles Driven In Water, Add	*19.47*	
		For Thick Wall Shell, Add	*0.07*	

31 63 Bored Piles *(31 60)*

31 63 36 Drilled Steel Piles *(31 63)*

31 63 36 00-0001 Drill Hole *(31 63 36)*

Note: Excludes removal of excess material.

31 63 36 00-0002 Drilling Mobilization *(31 63 36 00-0001)*

31 63 36 00-0003	EA	>12" To 24" Diameter Hole, Drilling Mobilization	854.93	
31 63 36 00-0004	EA	>24" Diameter Hole, Drilling Mobilization	1,139.90	

31 63 36 00-0005 Drill Hole In Soil *(31 63 36 00-0001)*

31 63 36 00-0006	LF	18" Diameter, Up To 24' Depth, Drilled/Augered Hole	48.16	
31 63 36 00-0007	LF	20" Diameter, Up To 24' Depth, Drilled/Augered Hole	56.01	
31 63 36 00-0008	LF	22" Diameter, Up To 24' Depth, Drilled/Augered Hole	65.81	
31 63 36 00-0009	LF	24" Diameter, Up To 24' Depth, Drilled/Augered Hole	77.57	
31 63 36 00-0010	LF	26" Diameter, Up To 24' Depth, Drilled/Augered Hole	83.84	
31 63 36 00-0011	LF	28" Diameter, Up To 24' Depth, Drilled/Augered Hole	92.24	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0012	LF	30" Diameter, Up To 24' Depth, Drilled/Augered Hole	101.03	

31 63 36 00-0013 Steel H Piles *(31 63 36)*

31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles *(31 63 36 00-0013)*

Note: Includes guides, bracing and alignment.

31 63 36 00-0015	VLF	8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	47.59	
		For >2,400 To 3,600, Deduct	*-1.47*	
		For >3,600 To 4,800, Deduct	*-2.95*	
		For >4,800 To 6,000, Deduct	*-5.33*	
		For >6,000, Deduct	*-7.71*	
31 63 36 00-0016	VLF	10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	54.20	
		For >2,400 To 3,600, Deduct	*-1.65*	
		For >3,600 To 4,800, Deduct	*-3.31*	
		For >4,800 To 6,000, Deduct	*-6.02*	
		For >6,000, Deduct	*-8.73*	
31 63 36 00-0017	VLF	10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	69.29	
		For >2,400 To 3,600, Deduct	*-2.03*	
		For >3,600 To 4,800, Deduct	*-4.06*	
		For >4,800 To 6,000, Deduct	*-7.53*	
		For >6,000, Deduct	*-10.99*	
31 63 36 00-0018	VLF	12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	65.62	
		For >2,400 To 3,600, Deduct	*-1.95*	
		For >3,600 To 4,800, Deduct	*-3.90*	
		For >4,800 To 6,000, Deduct	*-7.18*	
		For >6,000, Deduct	*-10.46*	
31 63 36 00-0019	VLF	12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	75.68	
		For >2,400 To 3,600, Deduct	*-2.20*	
		For >3,600 To 4,800, Deduct	*-4.40*	
		For >4,800 To 6,000, Deduct	*-8.18*	
		For >6,000, Deduct	*-11.97*	
31 63 36 00-0020	VLF	12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	87.77	
		For >2,400 To 3,600, Deduct	*-2.53*	
		For >3,600 To 4,800, Deduct	*-5.06*	
		For >4,800 To 6,000, Deduct	*-9.44*	
		For >6,000, Deduct	*-13.83*	
31 63 36 00-0021	VLF	12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	97.83	
		For >2,400 To 3,600, Deduct	*-2.78*	
		For >3,600 To 4,800, Deduct	*-5.56*	
		For >4,800 To 6,000, Deduct	*-10.45*	
		For >6,000, Deduct	*-15.34*	
31 63 36 00-0022	VLF	14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	87.10	
		For >2,400 To 3,600, Deduct	*-2.52*	
		For >3,600 To 4,800, Deduct	*-5.04*	
		For >4,800 To 6,000, Deduct	*-9.39*	
		For >6,000, Deduct	*-13.75*	
31 63 36 00-0023	VLF	14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	104.20	
		For >2,400 To 3,600, Deduct	*-2.95*	
		For >3,600 To 4,800, Deduct	*-5.89*	
		For >4,800 To 6,000, Deduct	*-11.10*	
		For >6,000, Deduct	*-16.31*	
31 63 36 00-0024	VLF	14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	117.40	
		For >2,400 To 3,600, Deduct	*-3.30*	
		For >3,600 To 4,800, Deduct	*-6.61*	
		For >4,800 To 6,000, Deduct	*-12.48*	
		For >6,000, Deduct	*-18.35*	
31 63 36 00-0025	VLF	14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	133.49	
		For >2,400 To 3,600, Deduct	*-3.71*	
		For >3,600 To 4,800, Deduct	*-7.41*	
		For >4,800 To 6,000, Deduct	*-14.09*	
		For >6,000, Deduct	*-20.76*	

31 63 36 00-0026 Welded Steel Stud Pins *(31 63 36 00-0013)*

Note: Includes welding to steel piles.

31 63 36 00-0027	EA	5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	11.93	
		For >50 To 150, Deduct	*-0.53*	
		For >150 To 250, Deduct	*-1.09*	
		For >250 To 500, Deduct	*-1.65*	
		For >500, Deduct	*-2.21*	
31 63 36 00-0028	EA	5/8" Diameter x 5" Long, Welded Steel Stud Pins	13.32	
		For >50 To 150, Deduct	*-0.53*	
		For >150 To 250, Deduct	*-1.13*	
		For >250 To 500, Deduct	*-1.72*	
		For >500, Deduct	*-2.32*	
31 63 36 00-0029	EA	5/8" Diameter x 7" Long, Welded Steel Stud Pins	14.67	
		For >50 To 150, Deduct	*-0.53*	
		For >150 To 250, Deduct	*-1.16*	
		For >250 To 500, Deduct	*-1.79*	
		For >500, Deduct	*-2.42*	
31 63 36 00-0030	EA	3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	13.29	
		For >50 To 150, Deduct	*-0.55*	
		For >150 To 250, Deduct	*-1.16*	
		For >250 To 500, Deduct	*-1.77*	
		For >500, Deduct	*-2.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0031	EA	3/4" Diameter x 5" Long, Welded Steel Stud Pins	15.41	
		For >50 To 150, Deduct	*-0.55*	
		For >150 To 250, Deduct	*-1.22*	
		For >250 To 500, Deduct	*-1.88*	
		For >500, Deduct	*-2.54*	
31 63 36 00-0032	EA	3/4" Diameter x 7" Long, Welded Steel Stud Pins	16.89	
		For >50 To 150, Deduct	*-0.55*	
		For >150 To 250, Deduct	*-1.25*	
		For >250 To 500, Deduct	*-1.95*	
		For >500, Deduct	*-2.65*	
31 63 36 00-0033	EA	7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	15.00	
		For >50 To 150, Deduct	*-0.58*	
		For >150 To 250, Deduct	*-1.24*	
		For >250 To 500, Deduct	*-1.91*	
		For >500, Deduct	*-2.57*	
31 63 36 00-0034	EA	7/8" Diameter x 5" Long, Welded Steel Stud Pins	18.44	
		For >50 To 150, Deduct	*-0.58*	
		For >150 To 250, Deduct	*-1.33*	
		For >250 To 500, Deduct	*-2.08*	
		For >500, Deduct	*-2.83*	
31 63 36 00-0035	EA	7/8" Diameter x 7" Long, Welded Steel Stud Pins	20.13	
		For >50 To 150, Deduct	*-0.58*	
		For >150 To 250, Deduct	*-1.37*	
		For >250 To 500, Deduct	*-2.16*	
		For >500, Deduct	*-2.95*	

31 63 36 00-0036 Concrete Fill *(31 63 36)*

See CSI section 03 37 16 00-0001 for pumping equipment.

31 63 36 00-0037	VLF	18" Diameter Hole Pumped Concrete Fill For Drilled Pile	38.84	
31 63 36 00-0038	VLF	20" Diameter Hole Pumped Concrete Fill For Drilled Pile	43.15	
31 63 36 00-0039	VLF	22" Diameter Hole Pumped Concrete Fill For Drilled Pile	47.47	
31 63 36 00-0040	VLF	24" Diameter Hole Pumped Concrete Fill For Drilled Pile	51.79	
31 63 36 00-0041	VLF	26" Diameter Hole Pumped Concrete Fill For Drilled Pile	56.09	
31 63 36 00-0042	VLF	28" Diameter Hole Pumped Concrete Fill For Drilled Pile	60.41	
31 63 36 00-0043	VLF	30" Diameter Hole Pumped Concrete Fill For Drilled Pile	71.13	

31 64 Caissons *(31 60)*

31 64 13 Box Caissons *(31 64)*

31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water *(31 64 13)*

Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0002 Caisson In Stable Ground *(31 64 13 00-0001)*

Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water	55.09	
		Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*5.53*	
		For >100' To 150' Deep, Add	*13.77*	
		For >150' To 200' Deep, Add	*18.61*	
		For Right Angle Drilling, Add	*14.06*	
31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water	70.08	
		Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*7.67*	
		For >100' To 150' Deep, Add	*17.52*	
		For >150' To 200' Deep, Add	*24.48*	
		For Right Angle Drilling, Add	*15.90*	
31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water	100.27	
		Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*11.44*	
		For >100' To 150' Deep, Add	*25.07*	
		For >150' To 200' Deep, Add	*35.61*	
		For Right Angle Drilling, Add	*21.27*	
31 64 13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water	133.50	
		Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*15.70*	
		For >100' To 150' Deep, Add	*33.38*	
		For >150' To 200' Deep, Add	*48.00*	
		For Right Angle Drilling, Add	*26.86*	
31 64 13 00-0007	VLF	42" Diameter Caisson, No Casing Stable Ground, No Ground Water	173.06	
		Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*21.07*	
		For >100' To 150' Deep, Add	*43.27*	
		For >150' To 200' Deep, Add	*63.11*	
		For Right Angle Drilling, Add	*32.58*	
31 64 13 00-0008	VLF	48" Diameter Caisson No Casing Stable Ground, No Ground Water	207.68	
		Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*25.68*	
		For >100' To 150' Deep, Add	*51.92*	
		For >150' To 200' Deep, Add	*76.23*	
		For Right Angle Drilling, Add	*37.88*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0009	VLF	54" Diameter Caisson No Casing Stable Ground, No Ground Water	253.20	
		Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*32.20*	
		For >100' To 150' Deep, Add	*63.30*	
		For >150' To 200' Deep, Add	*94.06*	
		For Right Angle Drilling, Add	*43.38*	
31 64 13 00-0010	VLF	60" Diameter Caisson No Casing Stable Ground, No Ground Water	298.62	
		Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*38.71*	
		For >100' To 150' Deep, Add	*74.66*	
		For >150' To 200' Deep, Add	*111.84*	
		For Right Angle Drilling, Add	*48.87*	
31 64 13 00-0011	VLF	66" Diameter Caisson No Casing Stable Ground, No Ground Water	350.10	
		Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*46.05*	
		For >100' To 150' Deep, Add	*87.53*	
		For >150' To 200' Deep, Add	*131.96*	
		For Right Angle Drilling, Add	*55.21*	
31 64 13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water	410.12	
		Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*54.67*	
		For >100' To 150' Deep, Add	*102.53*	
		For >150' To 200' Deep, Add	*155.49*	
		For Right Angle Drilling, Add	*62.40*	
31 64 13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water	469.53	
		Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*63.34*	
		For >100' To 150' Deep, Add	*117.38*	
		For >150' To 200' Deep, Add	*178.95*	
		For Right Angle Drilling, Add	*69.11*	
31 64 13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water	533.03	
		Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*72.65*	
		For >100' To 150' Deep, Add	*133.26*	
		For >150' To 200' Deep, Add	*204.09*	
		For Right Angle Drilling, Add	*76.12*	

31 64 13 00-0015 For Bell Excavation And Concrete, Add *(31 64 13 00-0001)*

31 64 13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY	396.80	
		For >50' To 100' Deep, Add	*32.14*	
		For >100' To 150' Deep, Add	*99.20*	
		For >150' To 200' Deep, Add	*124.50*	
31 64 13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY	1,394.81	
		For >50' To 100' Deep, Add	*113.16*	
		For >100' To 150' Deep, Add	*348.70*	
		For >150' To 200' Deep, Add	*437.84*	
31 64 13 00-0018	EA	Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY	2,108.41	
		For >50' To 100' Deep, Add	*173.70*	
		For >100' To 150' Deep, Add	*527.10*	
		For >150' To 200' Deep, Add	*665.16*	
31 64 13 00-0019	EA	Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY	2,926.46	
		For >50' To 100' Deep, Add	*241.55*	
		For >100' To 150' Deep, Add	*731.62*	
		For >150' To 200' Deep, Add	*923.81*	
31 64 13 00-0020	EA	Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY	3,974.00	
		For >50' To 100' Deep, Add	*322.32*	
		For >100' To 150' Deep, Add	*993.50*	
		For >150' To 200' Deep, Add	*1,247.37*	
31 64 13 00-0021	EA	Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY	4,672.91	
		For >50' To 100' Deep, Add	*378.84*	
		For >100' To 150' Deep, Add	*1,168.23*	
		For >150' To 200' Deep, Add	*1,466.54*	
31 64 13 00-0022	EA	Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY	7,925.76	
		For >50' To 100' Deep, Add	*641.30*	
		For >100' To 150' Deep, Add	*1,981.44*	
		For >150' To 200' Deep, Add	*2,485.85*	
31 64 13 00-0023	EA	Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY	11,455.32	
		For >50' To 100' Deep, Add	*936.07*	
		For >100' To 150' Deep, Add	*2,863.83*	
		For >150' To 200' Deep, Add	*3,604.34*	

31 64 13 00-0024 Caisson In Wet Ground, Casing Pulled *(31 64 13)*

Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0025 Caisson In Wet Ground *(31 64 13 00-0024)*

Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0026	VLF	18" Diameter Caisson Wet Ground, Casing Pulled	60.56	
		Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*5.90*	
		For >100' To 150' Deep, Add	*15.14*	
		For >150' To 200' Deep, Add	*20.25*	
		For Right Angle Drilling, Add	*16.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0027	VLF	24" Diameter Caisson Wet Ground, Casing Pulled	100.79	
		Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*9.82*	
		For >100' To 150' Deep, Add	*25.20*	
		For >150' To 200' Deep, Add	*33.69*	
		For Right Angle Drilling, Add	*26.65*	
31 64 13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled	134.83	
		Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*13.86*	
		For >100' To 150' Deep, Add	*33.71*	
		For >150' To 200' Deep, Add	*45.98*	
		For Right Angle Drilling, Add	*33.37*	
31 64 13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled	185.54	
		Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*19.35*	
		For >100' To 150' Deep, Add	*46.39*	
		For >150' To 200' Deep, Add	*63.61*	
		For Right Angle Drilling, Add	*45.07*	
31 64 13 00-0030	VLF	42" Diameter Caisson Wet Ground, Casing Pulled	237.29	
		Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*25.57*	
		For >100' To 150' Deep, Add	*59.32*	
		For >150' To 200' Deep, Add	*82.38*	
		For Right Angle Drilling, Add	*55.06*	
31 64 13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled	283.87	
		Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*31.01*	
		For >100' To 150' Deep, Add	*70.97*	
		For >150' To 200' Deep, Add	*99.09*	
		For Right Angle Drilling, Add	*64.54*	
31 64 13 00-0032	VLF	54" Diameter Caisson Wet Ground, Casing Pulled	367.39	
		Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*40.19*	
		For >100' To 150' Deep, Add	*91.85*	
		For >150' To 200' Deep, Add	*128.31*	
		For Right Angle Drilling, Add	*83.35*	
31 64 13 00-0033	VLF	60" Diameter Caisson Wet Ground, Casing Pulled	449.83	
		Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*49.29*	
		For >100' To 150' Deep, Add	*112.46*	
		For >150' To 200' Deep, Add	*157.21*	
		For Right Angle Drilling, Add	*101.80*	
31 64 13 00-0034	VLF	66" Diameter Caisson Wet Ground, Casing Pulled	515.52	
		Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*57.63*	
		For >100' To 150' Deep, Add	*128.88*	
		For >150' To 200' Deep, Add	*181.59*	
		For Right Angle Drilling, Add	*113.10*	
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled	589.70	
		Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*67.24*	
		For >100' To 150' Deep, Add	*147.43*	
		For >150' To 200' Deep, Add	*209.37*	
		For Right Angle Drilling, Add	*125.26*	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled	672.58	
		Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*77.55*	
		For >100' To 150' Deep, Add	*168.15*	
		For >150' To 200' Deep, Add	*239.87*	
		For Right Angle Drilling, Add	*140.17*	
31 64 13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled	759.94	
		Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	*88.54*	
		For >100' To 150' Deep, Add	*189.99*	
		For >150' To 200' Deep, Add	*272.16*	
		For Right Angle Drilling, Add	*155.54*	

31 64 13 00-0038 For Bell Excavation And Concrete, Add *(31 64 13 00-0024)*

31 64 13 00-0039	EA	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY	456.30	
		For >50' To 100' Deep, Add	*36.31*	
		For >100' To 150' Deep, Add	*114.08*	
		For >150' To 200' Deep, Add	*142.35*	
31 64 13 00-0040	EA	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY	1,589.48	
		For >50' To 100' Deep, Add	*126.78*	
		For >100' To 150' Deep, Add	*397.37*	
		For >150' To 200' Deep, Add	*496.25*	
31 64 13 00-0041	EA	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY	2,190.12	
		For >50' To 100' Deep, Add	*163.25*	
		For >100' To 150' Deep, Add	*547.53*	
		For >150' To 200' Deep, Add	*669.47*	
31 64 13 00-0042	EA	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY	3,490.75	
		For >50' To 100' Deep, Add	*281.05*	
		For >100' To 150' Deep, Add	*872.69*	
		For >150' To 200' Deep, Add	*1,093.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0043	EA	Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY	4,528.85	
		For >50' To 100' Deep, Add	*361.16*	
		For >100' To 150' Deep, Add	*1,132.21*	
		For >150' To 200' Deep, Add	*1,413.83*	
31 64 13 00-0044	EA	Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY	5,325.67	
		For >50' To 100' Deep, Add	*424.53*	
		For >100' To 150' Deep, Add	*1,331.42*	
		For >150' To 200' Deep, Add	*1,662.37*	
31 64 13 00-0045	EA	Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY	9,035.45	
		For >50' To 100' Deep, Add	*718.98*	
		For >100' To 150' Deep, Add	*2,258.86*	
		For >150' To 200' Deep, Add	*2,818.76*	
31 64 13 00-0046	EA	Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY	13,040.60	
		For >50' To 100' Deep, Add	*1,047.03*	
		For >100' To 150' Deep, Add	*3,260.15*	
		For >150' To 200' Deep, Add	*4,079.92*	

31 64 13 00-0047 Caisson In Soft Rock And Medium Hard Shale *(31 64 13)*

Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0048 Caisson In Soft Rock *(31 64 13 00-0047)*

Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0049	VLF	18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.	225.14	
		For >50' To 100' Deep, Add	*17.42*	
		For >100' To 150' Deep, Add	*56.29*	
		For >150' To 200' Deep, Add	*69.62*	
		For Right Angle Drilling, Add	*73.60*	
31 64 13 00-0050	VLF	24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.	375.15	
		For >50' To 100' Deep, Add	*29.02*	
		For >100' To 150' Deep, Add	*93.79*	
		For >150' To 200' Deep, Add	*116.00*	
		For Right Angle Drilling, Add	*122.68*	
31 64 13 00-0051	VLF	30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.	566.19	
		For >50' To 100' Deep, Add	*44.06*	
		For >100' To 150' Deep, Add	*141.55*	
		For >150' To 200' Deep, Add	*175.39*	
		For Right Angle Drilling, Add	*184.34*	
31 64 13 00-0052	VLF	36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.	724.82	
		For >50' To 100' Deep, Add	*57.10*	
		For >100' To 150' Deep, Add	*181.21*	
		For >150' To 200' Deep, Add	*225.39*	
		For Right Angle Drilling, Add	*233.82*	
31 64 13 00-0053	VLF	42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.	932.23	
		For >50' To 100' Deep, Add	*74.21*	
		For >100' To 150' Deep, Add	*233.06*	
		For >150' To 200' Deep, Add	*290.86*	
		For Right Angle Drilling, Add	*298.29*	
31 64 13 00-0054	VLF	48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.	1,123.58	
		For >50' To 100' Deep, Add	*89.79*	
		For >100' To 150' Deep, Add	*280.90*	
		For >150' To 200' Deep, Add	*351.00*	
		For Right Angle Drilling, Add	*358.44*	
31 64 13 00-0055	VLF	54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.	1,376.58	
		For >50' To 100' Deep, Add	*110.84*	
		For >100' To 150' Deep, Add	*344.15*	
		For >150' To 200' Deep, Add	*431.07*	
		For Right Angle Drilling, Add	*436.56*	
31 64 13 00-0056	VLF	60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.	1,628.73	
		For >50' To 100' Deep, Add	*131.82*	
		For >100' To 150' Deep, Add	*407.18*	
		For >150' To 200' Deep, Add	*510.88*	
		For Right Angle Drilling, Add	*514.41*	
31 64 13 00-0057	VLF	66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.	1,793.07	
		For >50' To 100' Deep, Add	*147.06*	
		For >100' To 150' Deep, Add	*448.27*	
		For >150' To 200' Deep, Add	*564.85*	
		For Right Angle Drilling, Add	*560.24*	
31 64 13 00-0058	VLF	72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	1,965.12	
		For >50' To 100' Deep, Add	*163.52*	
		For >100' To 150' Deep, Add	*491.28*	
		For >150' To 200' Deep, Add	*621.99*	
		For Right Angle Drilling, Add	*606.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0059	VLF	78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	2,021.48	
		For >50' To 100' Deep, Add	*171.98*	
		For >100' To 150' Deep, Add	*505.37*	
		For >150' To 200' Deep, Add	*644.54*	
		For Right Angle Drilling, Add	*612.29*	
31 64 13 00-0060	VLF	84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	2,411.69	
		For >50' To 100' Deep, Add	*204.16*	
		For >100' To 150' Deep, Add	*602.92*	
		For >150' To 200' Deep, Add	*767.68*	
		For Right Angle Drilling, Add	*733.65*	

31 64 13 00-0061 For Bell Excavation And Concrete, Add *(31 64 13 00-0047)*

31 64 13 00-0062	EA	Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY	784.32	
		For >50' To 100' Deep, Add	*59.27*	
		For >100' To 150' Deep, Add	*196.08*	
		For >150' To 200' Deep, Add	*240.75*	
31 64 13 00-0063	EA	Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY	2,759.89	
		For >50' To 100' Deep, Add	*208.71*	
		For >100' To 150' Deep, Add	*689.97*	
		For >150' To 200' Deep, Add	*847.37*	
31 64 13 00-0064	EA	Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY	4,134.35	
		For >50' To 100' Deep, Add	*315.52*	
		For >100' To 150' Deep, Add	*1,033.59*	
		For >150' To 200' Deep, Add	*1,272.94*	
31 64 13 00-0065	EA	Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY	5,886.60	
		For >50' To 100' Deep, Add	*448.76*	
		For >100' To 150' Deep, Add	*1,471.65*	
		For >150' To 200' Deep, Add	*1,811.86*	
31 64 13 00-0066	EA	Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY	7,782.85	
		For >50' To 100' Deep, Add	*588.94*	
		For >100' To 150' Deep, Add	*1,945.71*	
		For >150' To 200' Deep, Add	*2,390.03*	
31 64 13 00-0067	EA	Bell Excavation And Concrete, 10" Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY	9,484.75	
		For >50' To 100' Deep, Add	*715.67*	
		For >100' To 150' Deep, Add	*2,371.19*	
		For >150' To 200' Deep, Add	*2,910.10*	
31 64 13 00-0068	EA	Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY	14,338.27	
		For >50' To 100' Deep, Add	*1,090.18*	
		For >100' To 150' Deep, Add	*3,584.57*	
		For >150' To 200' Deep, Add	*4,409.60*	
31 64 13 00-0069	EA	Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY	21,562.99	
		For >50' To 100' Deep, Add	*1,643.60*	
		For >100' To 150' Deep, Add	*5,390.75*	
		For >150' To 200' Deep, Add	*6,636.64*	

31 64 13 00-0070 Caisson Setup And Removal *(31 64 13)*

Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.

31 64 13 00-0071	EA	Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	3,263.28	
31 64 13 00-0072	EA	Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	4,597.85	
31 64 13 00-0073	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter	1,539.09	
31 64 13 00-0074	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter	2,052.12	
31 64 13 00-0075	EA	Relocate Caisson Equipment To Different Hole On-Site Without Dismantling	128.26	

31 66 Special Foundation *(31 60)*

31 66 15 Helical Foundation Piles *(31 66)*

31 66 15 00-0001 Helical Pier Restoration (Atlas) *(31 66 15)*

31 66 15 00-0002	EA	Structural Steel Piers (Atlas Pier System Or Equal) Note: Includes heavy duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling	3,017.88	
31 66 15 00-0003	EA	Pressure Injecting Grout For Slab Repairs, Per Location Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.	370.78	
31 66 15 00-0004	CY	Pressure Injected Non-Shrink Grout	370.78	

END OF SECTION 31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements *(32)*

32 01 11 Paving Cleaning *(32 01)*

32 01 11 53 Paint Removal from Paving *(32 01 11)*

32 01 11 53-0001 Remove Pavement Markings *(32 01 11 53)*

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	2.04	
		For Up To 250, Add	*1.02*	
		For >250 To 1,000, Add	*0.51*	
		For >5,000 To 10,000, Deduct	*-0.31*	
		For >10,000 To 25,000, Deduct	*-0.51*	
		For >25,000 To 50,000, Deduct	*-0.71*	
		For >50,000, Deduct	*-0.82*	
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.45	
		For Up To 250, Add	*1.23*	
		For >250 To 1,000, Add	*0.61*	
		For >5,000 To 10,000, Deduct	*-0.37*	
		For >10,000 To 25,000, Deduct	*-0.61*	
		For >25,000 To 50,000, Deduct	*-0.86*	
		For >50,000, Deduct	*-0.98*	
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	2.94	
		For Up To 250, Add	*1.47*	
		For >250 To 1,000, Add	*0.74*	
		For >5,000 To 10,000, Deduct	*-0.44*	
		For >10,000 To 25,000, Deduct	*-0.74*	
		For >25,000 To 50,000, Deduct	*-1.03*	
		For >50,000, Deduct	*-1.18*	
32 01 11 53-0005	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.51	
		For Up To 250, Add	*1.76*	
		For >250 To 1,000, Add	*0.88*	
		For >5,000 To 10,000, Deduct	*-0.53*	
		For >10,000 To 25,000, Deduct	*-0.88*	
		For >25,000 To 50,000, Deduct	*-1.23*	
		For >50,000, Deduct	*-1.40*	
32 01 11 53-0006	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	3.51	
		For Up To 250, Add	*1.76*	
		For >250 To 1,000, Add	*0.88*	
		For >5,000 To 10,000, Deduct	*-0.53*	
		For >10,000 To 25,000, Deduct	*-0.88*	
		For >25,000 To 50,000, Deduct	*-1.23*	
		For >50,000, Deduct	*-1.40*	
32 01 11 53-0007	LF	Removal Of 4" Wide Thermoplastic Pavement Striping	2.63	
		For Up To 250, Add	*1.32*	
		For >250 To 1,000, Add	*0.66*	
		For >5,000 To 10,000, Deduct	*-0.39*	
		For >10,000 To 25,000, Deduct	*-0.66*	
		For >25,000 To 50,000, Deduct	*-0.92*	
		For >50,000, Deduct	*-1.05*	
32 01 11 53-0008	LF	Removal Of 6" Wide Thermoplastic Pavement Striping	3.10	
		For Up To 250, Add	*1.55*	
		For >250 To 1,000, Add	*0.78*	
		For >5,000 To 10,000, Deduct	*-0.47*	
		For >10,000 To 25,000, Deduct	*-0.78*	
		For >25,000 To 50,000, Deduct	*-1.09*	
		For >50,000, Deduct	*-1.24*	
32 01 11 53-0009	LF	Removal Of 8" Wide Thermoplastic Pavement Striping	3.74	
		For Up To 250, Add	*1.87*	
		For >250 To 1,000, Add	*0.94*	
		For >5,000 To 10,000, Deduct	*-0.56*	
		For >10,000 To 25,000, Deduct	*-0.94*	
		For >25,000 To 50,000, Deduct	*-1.31*	
		For >50,000, Deduct	*-1.50*	
32 01 11 53-0010	LF	Removal Of 12" Wide Thermoplastic Pavement Striping	4.48	
		For Up To 250, Add	*2.24*	
		For >250 To 1,000, Add	*1.12*	
		For >5,000 To 10,000, Deduct	*-0.67*	
		For >10,000 To 25,000, Deduct	*-1.12*	
		For >25,000 To 50,000, Deduct	*-1.57*	
		For >50,000, Deduct	*-1.79*	
32 01 11 53-0011	SF	Removal Of Thermoplastic Pavement Marking, Letters Or Symbols	4.48	
		For Up To 250, Add	*2.24*	
		For >250 To 1,000, Add	*1.12*	
		For >5,000 To 10,000, Deduct	*-0.67*	
		For >10,000 To 25,000, Deduct	*-1.12*	
		For >25,000 To 50,000, Deduct	*-1.57*	
		For >50,000, Deduct	*-1.79*	

32 01 13 Flexible Paving Surface Treatment *(32 01)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61		**Slurry Seal (Latex Modified)** *(32 01 13)*		
32 01 13 61-0001		Asphalt Seal Coating, For Roads And Parking Lot *(32 01 13 61)*		
		Note: Includes sweeping and cleaning of area.		
32 01 13 61-0002	EA	Asphalt Seal Coating Minimum	558.20	
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
32 01 13 61-0003	SY	Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	1.97	
32 01 13 61-0004	SY	>500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat	1.76	
32 01 13 61-0005	SY	>1,000 SY, Type O Asphalt Seal Coating, No Aggregate. Per Coat	1.59	
32 01 13 61-0006	SY	Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat	2.22	
		Note: 1/8" thick.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.30*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.36*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.46*	
		For Each 0.5% Of Latex Addition, Add	*0.12*	
32 01 13 61-0007	SY	>500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	2.04	
		Note: 1/8" thick.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.29*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.35*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.45*	
		For Each 0.5% Of Latex Addition, Add	*0.12*	
32 01 13 61-0008	SY	>1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	1.92	
		Note: 1/8" thick.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.28*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.34*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.44*	
		For Each 0.5% Of Latex Addition, Add	*0.12*	
32 01 13 61-0009	SY	>5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	1.79	
		Note: 1/8" thick.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.28*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.34*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.44*	
		For Each 0.5% Of Latex Addition, Add	*0.12*	
32 01 13 61-0010	SY	>20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	1.79	
		Note: 1/8" thick.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.28*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.34*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.44*	
		For Each 0.5% Of Latex Addition, Add	*0.12*	
32 01 13 61-0011	SY	>50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	1.57	
		Note: 1/8" thick.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.26*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.32*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.42*	
		For Each 0.5% Of Latex Addition, Add	*0.12*	
32 01 13 61-0012	SY	Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.02	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.32*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.38*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.48*	
		For Each 0.5% Of Latex Addition, Add	*0.17*	
32 01 13 61-0013	SY	>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	2.75	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.31*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.37*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.47*	
		For Each 0.5% Of Latex Addition, Add	*0.17*	
32 01 13 61-0014	SY	>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	2.54	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.30*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.36*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.46*	
		For Each 0.5% Of Latex Addition, Add	*0.17*	
32 01 13 61-0015	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	2.35	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.29*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.35*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.45*	
		For Each 0.5% Of Latex Addition, Add	*0.17*	
32 01 13 61-0016	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	2.18	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.28*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.34*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.44*	
		For Each 0.5% Of Latex Addition, Add	*0.17*	
32 01 13 61-0017	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	2.02	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.27*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.33*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.43*	
		For Each 0.5% Of Latex Addition, Add	*0.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0018	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat		3.65
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.33*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.39*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.49*	
		For Each 0.5% Of Latex Addition, Add	*0.28*	
32 01 13 61-0019	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat		3.37
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.31*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.37*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.47*	
		For Each 0.5% Of Latex Addition, Add	*0.28*	
32 01 13 61-0020	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat		3.15
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.30*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.36*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.46*	
		For Each 0.5% Of Latex Addition, Add	*0.28*	
32 01 13 61-0021	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat		2.95
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.29*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.35*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.45*	
		For Each 0.5% Of Latex Addition, Add	*0.28*	
32 01 13 61-0022	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat		2.76
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.28*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.34*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.44*	
		For Each 0.5% Of Latex Addition, Add	*0.28*	
32 01 13 61-0023	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat		2.58
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	*0.27*	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	*0.33*	
		For Rubberized Polymer Modified Emulsion (RPME), Add	*0.43*	
		For Each 0.5% Of Latex Addition, Add	*0.28*	

32 01 13 62 Asphalt Surface Treatment *(32 01 13)*

32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing) *(32 01 13 62)*

Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.

32 01 13 62-0002	SY	Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	6.40
32 01 13 62-0003	SY	Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	5.97
32 01 13 62-0004	SY	>500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	5.58
32 01 13 62-0005	SY	>1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	5.25
32 01 13 62-0006	SY	>5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	4.95
32 01 13 62-0007	SY	>10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	4.69
32 01 13 62-0008	SY	>20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	4.50
32 01 13 62-0009	SY	>50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	4.40

32 01 16 Flexible Paving Rehabilitation *(32 01)*

32 01 16 71 Cold Milling Asphalt Pavement *(32 01 16)*

32 01 16 71-0001 Removal Of Asphalt Surface Course *(32 01 16 71)*

Note: Includes direct loading into truck.

32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas *(32 01 16 71-0001)*

Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0037 for hauling.

32 01 16 71-0003	SY	Up To 3" Depth, Production Cold Milling Of Asphalt		4.12
		For Up To 2,500, Add	*3.09*	
		For >2,500 To 5,000, Add	*1.03*	
		For >10,000 To 25,000, Deduct	*-0.41*	
		For >25,000, Deduct	*-0.62*	
32 01 16 71-0004	SY	>3" To 6" Depth, Production Cold Milling Of Asphalt		5.49
		For Up To 2,500, Add	*4.12*	
		For >2,500 To 5,000, Add	*1.37*	
		For >10,000 To 25,000, Deduct	*-0.55*	
		For >25,000, Deduct	*-0.82*	
32 01 16 71-0005	SY	>6" To 12" Depth, Production Cold Milling Of Asphalt		7.31
		For Up To 2,500, Add	*5.48*	
		For >2,500 To 5,000, Add	*1.83*	
		For >10,000 To 25,000, Deduct	*-0.73*	
		For >25,000, Deduct	*-1.10*	
32 01 16 71-0006	SY	Production Cold Milling Of Concrete Per Inch		6.24

32 01 16 71-0007 Limited Production Cold Milling *(32 01 16 71-0001)*

Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0037 for hauling.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 71-0008	SY	Up To 3" Depth, Limited Cold Milling Of Asphalt	26.05	
		For >100 To 1,000, Deduct	*-13.03*	
		For >1,000, Deduct	*-19.54*	
32 01 16 71-0009	SY	>3" To 6" Depth, Limited Cold Milling Of Asphalt	34.50	
		For >100 To 1,000, Deduct	*-17.25*	
		For >1,000, Deduct	*-25.88*	
32 01 16 71-0010	SY	>6" To 12" Depth, Limited Cold Milling Of Asphalt	45.95	
		For >100 To 1,000, Deduct	*-22.98*	
		For >1,000, Deduct	*-34.46*	
32 01 16 71-0011	SY	Limited Cold Milling Of Concrete Per Inch	39.16	

32 01 16 71-0012 Grind, Leave In-Place Asphalt Grindings *(32 01 16 71)*

Note: For use as subbase material, includes spreading and rolling.

32 01 16 71-0013	SY	Grind, Leave In-Place As Subbase Course, 6-9" Depth	6.87	

32 01 16 74 In Place Hot Reused Asphalt Paving *(32 01 16)*

32 01 16 74-0001 Rejuvenate, Respread Asphalt Pavement *(32 01 16 74)*

Note: Includes direct loading into truck.

32 01 16 74-0002	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep	11.46	
32 01 16 74-0003	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar	13.60	
32 01 16 74-0004	TON	Removal, Rejuvenation, And Respreading Of Asphalt Grindings	179.05	

32 01 16 74-0005 Reclamation, Pulverize And Blending With Existing *(32 01 16 74)*

Note: Includes direct loading into truck.

32 01 16 74-0006	SY	Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	14.03	
32 01 16 74-0007	SY	Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	7.01	
32 01 16 74-0008	SY	Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.51	
32 01 16 74-0009	SY	Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.32	
32 01 16 74-0010	SY	>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.83	
32 01 16 74-0011	SY	>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	15.31	
32 01 16 74-0012	SY	>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	7.66	
32 01 16 74-0013	SY	>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.61	
32 01 16 74-0014	SY	>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	16.84	
32 01 16 74-0015	SY	>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	8.42	
32 01 16 74-0016	SY	>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.21	
32 01 16 74-0017	SY	>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.88	
32 01 16 74-0018	SY	>4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	18.37	
32 01 16 74-0019	SY	>4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	9.18	
32 01 16 74-0020	SY	>4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.60	
32 01 16 74-0021	SY	>4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.28	
32 01 16 74-0022	EA	Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew	1,578.83	

32 01 17 Flexible Paving Repair *(32 01)*

See CSI section 32 12 16 00-0000 for large area resurfacing.

32 01 17 61 Sealing Cracks in Asphalt Paving *(32 01 17)*

Note: Includes removing loose materials and cleaning.

32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair *(32 01 17 61)*

Note: Includes removing loose materials and cleaning.

32 01 17 61-0002	LF	Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.43	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	*0.38*	
		For 1" x 1/2" Fill, Add	*0.71*	
		For Backer Rod, Add	*0.81*	
32 01 17 61-0003	LF	>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.16	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	*0.31*	
		For 1" x 1/2" Fill, Add	*0.59*	
		For Backer Rod, Add	*0.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0004	LF	>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.92	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	*0.25*	
		For 1" x 1/2" Fill, Add	*0.48*	
		For Backer Rod, Add	*0.67*	
32 01 17 61-0005	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.80	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	*0.23*	
		For 1" x 1/2" Fill, Add	*0.43*	
		For Backer Rod, Add	*0.64*	
32 01 17 61-0006	LF	>5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.71	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	*0.20*	
		For 1" x 1/2" Fill, Add	*0.37*	
		For Backer Rod, Add	*0.60*	
32 01 17 61-0007	LF	>10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.66	
		Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
		For 3/4" x 1/2" Fill, Add	*0.18*	
		For 1" x 1/2" Fill, Add	*0.35*	
		For Backer Rod, Add	*0.58*	
32 01 17 61-0008	LF	Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	2.75	
		For 3/8" x 1/4" Fill, Add	*0.59*	
		For 1/2" x 1/4" Fill, Add	*1.08*	
		For 1/2" x 1/2" Fill, Add	*2.45*	
32 01 17 61-0009	LF	>200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	2.21	
		For 3/8" x 1/4" Fill, Add	*0.49*	
		For 1/2" x 1/4" Fill, Add	*0.88*	
		For 1/2" x 1/2" Fill, Add	*2.03*	
32 01 17 61-0010	LF	>500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.70	
		For 3/8" x 1/4" Fill, Add	*0.38*	
		For 1/2" x 1/4" Fill, Add	*0.70*	
		For 1/2" x 1/2" Fill, Add	*1.62*	
32 01 17 61-0011	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.49	
		For 3/8" x 1/4" Fill, Add	*0.34*	
		For 1/2" x 1/4" Fill, Add	*0.61*	
		For 1/2" x 1/2" Fill, Add	*1.43*	
32 01 17 61-0012	LF	>5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.34	
		For 3/8" x 1/4" Fill, Add	*0.30*	
		For 1/2" x 1/4" Fill, Add	*0.55*	
		For 1/2" x 1/2" Fill, Add	*1.26*	
32 01 17 61-0013	LF	>10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.25	
		For 3/8" x 1/4" Fill, Add	*0.28*	
		For 1/2" x 1/4" Fill, Add	*0.51*	
		For 1/2" x 1/2" Fill, Add	*1.18*	
32 01 17 61-0014	LF	For Routing And Cleaning Of Crack, Add Per 1/2" Depth	0.48	
32 01 17 61-0015	LF	Crack Fill Backer Material, Up To 1" Diameter, As Required	1.62	

32 01 17 63 Flexible Pavement Repair *(32 01 17)*

32 01 17 63-0001 Temporary Pot Hole Repair *(32 01 17 63)*

Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

32 01 17 63-0002	EA	Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,626.34	
32 01 17 63-0003	TON	Temporary Pot Hole Repairs With Cold Mix Modified	494.26	
		Note: Use for each ton over 3 tons.		
32 01 17 63-0004	EA	Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons	1,545.42	
32 01 17 63-0005	TON	Temporary Pot Hole Repairs With Cold Mix	467.29	
		Note: Use for each ton over 3 tons.		
32 01 17 63-0006	EA	Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,504.97	
32 01 17 63-0007	TON	Temporary Pot Hole Repairs With Hot Mix Modified	453.80	
		Note: Use for each ton over 3 tons.		
32 01 17 63-0008	EA	Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,464.51	
32 01 17 63-0009	TON	Temporary Pot Hole Repairs With Hot Mix	440.32	
		Note: Use for each ton over 3 tons.		

32 01 17 63-0010 Permanent Pot Hole Repair *(32 01 17 63)*

Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

32 01 17 63-0011	EA	Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons	1,726.64	
32 01 17 63-0012	TON	Permanent Pot Hole Repairs With Cold Mix	561.77	
		Note: Use for each ton over 3 tons.		
32 01 17 63-0013	EA	Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,686.19	
32 01 17 63-0014	TON	Permanent Pot Hole Repairs With Hot Mix Modified	548.28	
		Note: Use for each ton over 3 tons.		
32 01 17 63-0015	EA	Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,645.73	
32 01 17 63-0016	TON	Permanent Pot Hole Repairs With Hot Mix	534.80	
		Note: Use for each ton over 3 tons.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 63-0017		**Asphalt Placement For Small Repairs** *(32 01 17 63)* Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0057 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018	EA	Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,253.12	
32 01 17 63-0019	TON	Asphalt Placement For Small Repair Areas, Cold Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	304.86	
32 01 17 63-0020	EA	Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,172.20	
32 01 17 63-0021	TON	Asphalt Placement For Small Repair Areas, Cold Mix Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	277.89	
32 01 17 63-0022	EA	Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,131.75	
32 01 17 63-0023	TON	Asphalt Placement For Small Repair Areas, Hot Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	264.40	
32 01 17 63-0024	EA	Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,091.29	
32 01 17 63-0025	TON	Asphalt Placement For Small Repair Areas, Hot Mix Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	250.92	

32 01 26 Rigid Paving Rehabilitation *(32 01)*

32 01 26 71 Grooving of Concrete Paving *(32 01 26)*

32 01 26 71-0001		**Roadway Grooving** *(32 01 26 71)*		
32 01 26 71-0002	EA	First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3,599.72	
32 01 26 71-0003	SY	Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3.33	
32 01 26 71-0004	EA	First 500 SY Of Pavement Grooving, Concrete, Traverse	4,010.22	
32 01 26 71-0005	SY	Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	4.34	
32 01 26 71-0006		**Rumble Strips** *(32 01 26 71)*		
32 01 26 71-0007	EA	First 5280 LF Of MIARDS, Rumble Strips, Asphalt	4,128.05	
32 01 26 71-0008	LF	Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt	0.75	
		For > 52,500, Deduct	*-0.10*	
32 01 26 71-0009	EA	First 2000 LF Of MIARDS, Rumble Strips, Concrete	4,600.34	
32 01 26 71-0010	LF	Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete	0.84	
		For > 20,000, Deduct	*-0.09*	
32 01 26 71-0011		**Boat Ramps Grooving** *(32 01 26 71)*		
32 01 26 71-0012	SY	Concrete Grooving, Boat Ramps	1.90	

32 01 90 Operation and Maintenance of Planting *(32 01)*

Note: These tasks are to be used as requested by the owner to maintain existing conditions.

32 01 90 13 Fertilizing *(32 01 90)*

32 01 90 13-0001	MSF	Fertilizer - 2 LB Of Nitrogen/MSF (Granular)	13.64	
32 01 90 13-0002	MSF	Fertilizer - 2 LB Of Nitrogen/MSF (Liquid)	10.20	
32 01 90 13-0003	MSF	Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular)	11.10	
32 01 90 13-0004	MSF	Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid)	9.18	

32 01 90 19 Mowing *(32 01 90)*

32 01 90 19-0001	ACR	Vegetation Cutting By Bush Hog Note: Includes normal debris removal, cutting, and trimming.	181.14	
		For <1 Acre, Add		*45.29*
32 01 90 19-0002	MSF	Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF	6.47	
32 01 90 19-0003	MSF	Mowing Vegetation With Riding Mower, >45,000 SF	5.02	
32 01 90 19-0004	MSF	Clear Vegetation With Weed Trimmer, Up To 1,000 SF	23.37	
		For Work On Slopes >2:1, Add		*5.84*
		For Clearing Light Brush, Add		*3.51*
32 01 90 19-0005	MSF	Clear Vegetation With Weed Trimmer, >1,000 SF	19.64	
		For Work On Slopes >2:1, Add		*4.91*
		For Clearing Light Brush, Add		*2.95*
32 01 90 19-0006	MSF	Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	19.09	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 01 90 23 Pruning *(32 01 90)*

32 01 90 23-0001 Tree Pruning *(32 01 90 23)*

Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumspter.

32 01 90 23-0002 Tree Pruning; Crown Cleaning *(32 01 90 23-0001)*

Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.

32 01 90 23-0003	EA	1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	29.37	
32 01 90 23-0004	EA	2" Caliper, Tree Pruning (Crown Cleaning), By Hand	33.57	
32 01 90 23-0005	EA	2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	37.76	
32 01 90 23-0006	EA	3" Caliper, Tree Pruning (Crown Cleaning), By Hand	41.96	
32 01 90 23-0007	EA	4" Caliper, Tree Pruning (Crown Cleaning), By Hand	63.78	
32 01 90 23-0008	EA	4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	105.78	
32 01 90 23-0009	EA	6" Caliper, Tree Pruning (Crown Cleaning), By Hand	111.61	
32 01 90 23-0010	EA	6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	201.47	
32 01 90 23-0011	EA	9" Caliper, Tree Pruning (Crown Cleaning), By Hand	178.72	
32 01 90 23-0012	EA	9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	322.27	
32 01 90 23-0013	EA	12" Caliper, Tree Pruning (Crown Cleaning), By Hand	206.51	
32 01 90 23-0014	EA	12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	372.68	
32 01 90 23-0015	EA	18" Caliper, Tree Pruning (Crown Cleaning), By Hand	240.07	
32 01 90 23-0016	EA	18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	433.12	
32 01 90 23-0017	EA	24" Caliper, Tree Pruning (Crown Cleaning), By Hand	292.23	
32 01 90 23-0018	EA	24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	523.86	
32 01 90 23-0019	EA	30" Caliper, Tree Pruning (Crown Cleaning), By Hand	363.00	
32 01 90 23-0020	EA	30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	660.22	
32 01 90 23-0021	EA	36" Caliper, Tree Pruning (Crown Cleaning), By Hand	497.20	
32 01 90 23-0022	EA	36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	894.82	
32 01 90 23-0023	EA	48" Caliper, Tree Pruning (Crown Cleaning), By Hand	788.78	
32 01 90 23-0024	EA	48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	1,439.01	

32 01 90 23-0025 Tree Pruning; Crown Thinning *(32 01 90 23-0001)*

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two- thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA	1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	36.01	
32 01 90 23-0027	EA	2" Caliper, Tree Pruning (Crown Thinning), By Hand	41.12	
32 01 90 23-0028	EA	2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	46.25	
32 01 90 23-0029	EA	3" Caliper, Tree Pruning (Crown Thinning), By Hand	51.44	
32 01 90 23-0030	EA	4" Caliper, Tree Pruning (Crown Thinning), By Hand	78.14	
32 01 90 23-0031	EA	4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	129.54	
32 01 90 23-0032	EA	6" Caliper, Tree Pruning (Crown Thinning), By Hand	136.72	
32 01 90 23-0033	EA	6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	246.79	
32 01 90 23-0034	EA	9" Caliper, Tree Pruning (Crown Thinning), By Hand	218.96	
32 01 90 23-0035	EA	9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	394.77	
32 01 90 23-0036	EA	12" Caliper, Tree Pruning (Crown Thinning), By Hand	252.95	
32 01 90 23-0037	EA	12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	456.51	
32 01 90 23-0038	EA	18" Caliper, Tree Pruning (Crown Thinning), By Hand	294.08	
32 01 90 23-0039	EA	18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	530.55	
32 01 90 23-0040	EA	24" Caliper, Tree Pruning (Crown Thinning), By Hand	357.95	
32 01 90 23-0041	EA	24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	641.75	
32 01 90 23-0042	EA	30" Caliper, Tree Pruning (Crown Thinning), By Hand	444.65	
32 01 90 23-0043	EA	30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	808.77	
32 01 90 23-0044	EA	36" Caliper, Tree Pruning (Crown Thinning), By Hand	609.05	
32 01 90 23-0045	EA	36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,096.16	
32 01 90 23-0046	EA	48" Caliper, Tree Pruning (Crown Thinning), By Hand	966.25	
32 01 90 23-0047	EA	48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,762.80	

32 01 90 23-0048 Tree Pruning; Crown Raising *(32 01 90 23-0001)*

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA	1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	39.69	
32 01 90 23-0050	EA	2" Caliper, Tree Pruning (Crown Raising), By Hand	45.32	
32 01 90 23-0051	EA	2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	51.02	
32 01 90 23-0052	EA	3" Caliper, Tree Pruning (Crown Raising), By Hand	56.65	
32 01 90 23-0053	EA	4" Caliper, Tree Pruning (Crown Raising), By Hand	86.11	
32 01 90 23-0054	EA	4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	142.84	
32 01 90 23-0055	EA	6" Caliper, Tree Pruning (Crown Raising), By Hand	150.64	
32 01 90 23-0056	EA	6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	271.97	
32 01 90 23-0057	EA	9" Caliper, Tree Pruning (Crown Raising), By Hand	241.29	
32 01 90 23-0058	EA	9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	435.05	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0059	EA	12" Caliper, Tree Pruning (Crown Raising), By Hand	278.81	
32 01 90 23-0060	EA	12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	503.15	
32 01 90 23-0061	EA	18" Caliper, Tree Pruning (Crown Raising), By Hand	324.13	
32 01 90 23-0062	EA	18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	584.74	
32 01 90 23-0063	EA	24" Caliper, Tree Pruning (Crown Raising), By Hand	394.54	
32 01 90 23-0064	EA	24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	707.23	
32 01 90 23-0065	EA	30" Caliper, Tree Pruning (Crown Raising), By Hand	490.05	
32 01 90 23-0066	EA	30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	891.27	
32 01 90 23-0067	EA	36" Caliper, Tree Pruning (Crown Raising), By Hand	671.25	
32 01 90 23-0068	EA	36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,207.96	
32 01 90 23-0069	EA	48" Caliper, Tree Pruning (Crown Raising), By Hand	1,064.87	
32 01 90 23-0070	EA	48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,942.70	

32 01 90 23-0071 Tree Pruning; Crown Reduction *(32 01 90 23-0001)*

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	42.63	
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand	48.68	
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	54.80	
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand	60.85	
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand	92.48	
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	153.42	
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand	161.81	
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	292.12	
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand	259.17	
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	467.30	
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand	299.45	
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	540.42	
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand	348.13	
32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	628.06	
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand	423.75	
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	759.61	
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand	526.39	
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	957.35	
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand	720.93	
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,297.51	
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand	1,143.75	
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	2,086.54	

32 01 90 23-0094 Tree Pruning; Crown Restoration *(32 01 90 23-0001)*

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	48.93	
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand	55.98	
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	62.95	
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand	69.91	
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand	106.26	
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	176.28	
32 01 90 23-0101	EA	6" Caliper, Tree Pruning (Crown Restoration), By Hand	185.98	
32 01 90 23-0102	EA	6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	335.73	
32 01 90 23-0103	EA	9" Caliper, Tree Pruning (Crown Restoration), By Hand	297.86	
32 01 90 23-0104	EA	9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	537.10	
32 01 90 23-0105	EA	12" Caliper, Tree Pruning (Crown Restoration), By Hand	344.19	
32 01 90 23-0106	EA	12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	621.11	
32 01 90 23-0107	EA	18" Caliper, Tree Pruning (Crown Restoration), By Hand	400.08	
32 01 90 23-0108	EA	18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	721.84	
32 01 90 23-0109	EA	24" Caliper, Tree Pruning (Crown Restoration), By Hand	487.02	
32 01 90 23-0110	EA	24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	873.13	
32 01 90 23-0111	EA	30" Caliper, Tree Pruning (Crown Restoration), By Hand	605.03	
32 01 90 23-0112	EA	30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,100.39	
32 01 90 23-0113	EA	36" Caliper, Tree Pruning (Crown Restoration), By Hand	828.69	
32 01 90 23-0114	EA	36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,491.43	
32 01 90 23-0115	EA	48" Caliper, Tree Pruning (Crown Restoration), By Hand	1,314.63	
32 01 90 23-0116	EA	48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	2,398.40	

32 01 90 23-0117 Palm Tree Pruning *(32 01 90 23)*

32 01 90 23-0118	EA	Trim Mexican Palm Tree	88.98	
32 01 90 23-0119	EA	Trim Date Palm Tree	200.78	
32 01 90 23-0120	LF	Skin Palm Tree	22.82	
32 01 90 23-0121	EA	Trim And Skin Palm Tree, Up To 30' Height	85.62	
32 01 90 23-0122	EA	Trim And Skin Palm Tree, >30' To 60' Height	105.76	
32 01 90 23-0123	EA	Trim And Skin Palm Tree, >60' To 80' Height	118.36	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0124		**Shrub Pruning** *(32 01 90 23)*		
32 01 90 23-0125	MSF	Shrub Pruning, Prune, Shrub Bed	95.64	
32 01 90 23-0126	EA	Shrub Pruning, Prune, Shrub Under 3' Height	3.36	
32 01 90 23-0127	EA	Shrub Pruning, Prune, Shrub 4' Height	7.55	
32 01 90 23-0128	EA	Shrub Pruning, Prune, Shrub Over 6'	13.42	
32 01 90 23-0129	EA	Shrub Pruning, Prune Trees From Ground	33.57	
32 01 90 23-0130	EA	Shrub Pruning, Prune Trees From Ground, High Work	83.93	
32 01 90 23-0131		**Root Pruning** *(32 01 90 23)*		
		Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
32 01 90 23-0132	EA	Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	16.78	
32 01 90 23-0133	EA	Root Pruning, One Side Of 2" Caliper Tree	20.98	
32 01 90 23-0134	EA	Root Pruning, One Side Of 2-1/2" Caliper Tree	25.18	
32 01 90 23-0135	EA	Root Pruning, One Side Of 3" Caliper Tree	33.57	
32 01 90 23-0136	EA	Root Pruning, One Side Of 4" Caliper Tree	50.35	
32 01 90 23-0137	EA	Root Pruning, One Side Of >4" To 6" Caliper Tree	62.95	
32 01 90 23-0138	EA	Root Pruning, One Side Of >6" To 9" Caliper Tree	88.12	
32 01 90 23-0139	EA	Root Pruning, One Side Of >9" To 12" Caliper Tree	100.71	
32 01 90 23-0140	EA	Root Pruning, One Side Of >12" To 18" Caliper Tree	117.50	
32 01 90 23-0141	EA	Root Pruning, One Side Of >18' To 24" Caliper Tree	146.87	
32 01 90 23-0142	EA	Root Pruning, One Side Of >24" To 30" Caliper Tree	180.45	
32 01 90 23-0143	EA	Root Pruning, One Side Of >30" To 36" Caliper Tree	209.82	
32 01 90 23-0144	EA	Root Pruning, One Side Of >36" To 42" Caliper Tree	230.80	
32 01 90 23-0145	EA	Root Pruning, One Side Of >42" To 48" Caliper Tree	251.78	
32 01 90 26		**Watering** *(32 01 90)*		
		Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
32 01 90 26-0001		**Watering Lawns, Plants And Trees** *(32 01 90 26)*		
		Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.		
32 01 90 26-0002	MSF	Watering Sod/Grass, Per Inch Of Water	38.94	
32 01 90 26-0003	CSF	Watering Groundcover	6.12	
32 01 90 26-0004	CSF	Watering Annuals And Perennials	10.96	
32 01 90 26-0005	EA	Watering Trees, 1-1/2" To 5" Diameter By Hand	21.42	
32 01 90 26-0006	EA	Watering Trees, 6" To 12" Diameter By Hand	28.16	
32 01 90 26-0007	EA	Watering Trees, 13" To 18" Diameter By Hand	34.89	
32 01 90 26-0008	EA	Watering Trees, >18" Diameter By Hand	42.94	
32 01 90 26-0009	EA	Watering Shrub Or Bush By Hand	10.76	
32 01 90 36		**Weed and Brush Control** *(32 01 90)*		
32 01 90 36-0001		**Herbicide, Push Or Hand Spreader Applied** *(32 01 90 36)*		
32 01 90 36-0002	MSF	Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF)	7.54	
		For >45 To 90, Deduct	*-0.40*	
		For >90 To 225, Deduct	*-1.16*	
		For >225 To 870, Deduct	*-1.91*	
		For >870, Deduct	*-2.31*	
32 01 90 36-0003	MSF	Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF)	7.96	
		For >45 To 90, Deduct	*-0.45*	
		For >90 To 225, Deduct	*-1.24*	
		For >225 To 870, Deduct	*-2.04*	
		For >870, Deduct	*-2.48*	
32 01 90 36-0004	MSF	Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF)	7.93	
		Note: Includes pre and post emergent.		
		For >45 To 90, Deduct	*-0.44*	
		For >90 To 225, Deduct	*-1.24*	
		For >225 To 870, Deduct	*-2.03*	
		For >870, Deduct	*-2.47*	
32 01 90 36-0005	MSF	Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF)	8.19	
		Note: Includes pre and post emergents.		
		For >45 To 90, Deduct	*-0.47*	
		For >90 To 225, Deduct	*-1.29*	
		For >225 To 870, Deduct	*-2.11*	
		For >870, Deduct	*-2.57*	
32 01 90 39		**Pesticides** *(32 01 90)*		
32 01 90 39-0001	MSF	Pesticide - Surface Eating	10.56	
32 01 90 39-0002	MSF	Pesticide - Subsurface Eating	10.60	
32 01 90 39-0003	MSF	Pesticide - Fungicide Application	11.33	
32 01 90 43		**Weed and Cultivate Beds** *(32 01 90)*		
32 01 90 43-0001	MSF	Weed Mulched Bed	41.01	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 43-0002	MSF	Weed Unmulched Bed	117.17	
32 01 90 43-0003	MSF	Cultivate Bed	63.09	

32 01 90 46 Hedge Trimming *(32 01 90)*

32 01 90 46-0001	LF	Trim 0-5' High Hedge, 0-3' Wide	5.43	
32 01 90 46-0002	LF	Trim 0-5' High Hedge, 4-6' Wide	8.14	
32 01 90 46-0003	LF	Trim 5-10' High Hedge, 0-3' Wide	12.34	
32 01 90 46-0004	LF	Trim 5-10' High Hedge, 4-6' Wide	12.56	

32 01 90 53 Plant Growth Regulator Application *(32 01 90)*

32 01 90 53-0001	EA	Plant Growth Regulator Application	5.76	

32 10 Bases, Ballasts, and Paving *(32)*

32 11 Base Courses *(32 10)*

32 11 16 Subbase Courses *(32 11)*

32 11 16 16 Aggregate Subbase Courses *(32 11 16)*

32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas *(32 11 16 16)*

Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

32 11 16 16-0002 Base And Subbase Courses By The CY *(32 11 16 16-0001)*

32 11 16 16-0003	CY	Class II Graded Crushed Aggregate Roadway Base Course	80.12	
32 11 16 16-0004	CY	Class III Graded Crushed Aggregate Roadway Base Course	77.52	

32 11 16 16-0005 Class II Base Courses By The SY *(32 11 16 16-0001)*

32 11 16 16-0006	SY	2" Class II Graded Crushed Aggregate Base Course	4.38	
		For Up To 500, Add		*1.16*
		For >500 To 1,000, Add		*0.44*
		For >5,000 To 10,000, Deduct		*-0.17*
		For >10,000, Deduct		*-0.28*
32 11 16 16-0007	SY	4" Class II Crushed Aggregate Base Course	8.76	
		For Up To 500, Add		*2.31*
		For >500 To 1,000, Add		*0.88*
		For >5,000 To 10,000, Deduct		*-0.33*
		For >10,000, Deduct		*-0.57*
32 11 16 16-0008	SY	6" Class II Crushed Aggregate Base Course	13.15	
		For Up To 500, Add		*3.47*
		For >500 To 1,000, Add		*1.32*
		For >5,000 To 10,000, Deduct		*-0.50*
		For >10,000, Deduct		*-0.85*
32 11 16 16-0009	SY	9" Class II Crushed Aggregate Base Course	19.73	
		For Up To 500, Add		*5.21*
		For >500 To 1,000, Add		*1.97*
		For >5,000 To 10,000, Deduct		*-0.75*
		For >10,000, Deduct		*-1.28*
32 11 16 16-0010	SY	12" Class II Crushed Aggregate Base Course	26.30	
		For Up To 500, Add		*6.94*
		For >500 To 1,000, Add		*2.63*
		For >5,000 To 10,000, Deduct		*-1.00*
		For >10,000, Deduct		*-1.71*

32 11 23 Aggregate Base Courses *(32 11)*

32 11 23 16 Aggregate Base Courses *(32 11 23)*

32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) *(32 11 23 16)*

Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

32 11 23 16-0002	SF	2" Crushed Aggregate Base Course For Sidewalks	0.54	
		For Up To 1,000, Add		*0.15*
		For >1,000 To 2,500, Add		*0.05*
32 11 23 16-0003	SF	3" Crushed Aggregate Base Course For Sidewalks	0.76	
		For Up To 1,000, Add		*0.21*
		For >1,000 To 2,500, Add		*0.08*
32 11 23 16-0004	SF	4" Crushed Aggregate Base Course For Sidewalks	0.98	
		For Up To 1,000, Add		*0.28*
		For >1,000 To 2,500, Add		*0.10*
32 11 23 16-0005	SF	5" Crushed Aggregate Base Course For Sidewalks	1.27	
		For Up To 1,000, Add		*0.36*
		For >1,000 To 2,500, Add		*0.13*
32 11 23 16-0006	SF	6" Crushed Aggregate Base Course For Sidewalks	1.55	
		For Up To 1,000, Add		*0.43*
		For >1,000 To 2,500, Add		*0.16*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 23 16-0007	SF	7" Crushed Aggregate Base Course For Sidewalks	1.80	
		For Up To 1,000, Add	*0.50*	
		For >1,000 To 2,500, Add	*0.18*	
32 11 23 16-0008	SF	8" Crushed Aggregate Base Course For Sidewalks	2.04	
		For Up To 1,000, Add	*0.57*	
		For >1,000 To 2,500, Add	*0.20*	

32 11 26 Asphaltic Base Courses *(32 11)*

32 11 26 19 Bituminous-Stabilized Base Courses *(32 11 26)*

32 11 26 19-0001 Bituminous-Stabilized Base Courses *(32 11 26 19)*

32 11 26 19-0002	CY	Bituminous Stabilized Base Course Note: 3/4" ASTM C33.	109.95

32 12 Flexible Paving *(32 10)*

32 12 13 Preparatory Coats *(32 12)*

32 12 13 13 Tack Coats *(32 12 13)*

32 12 13 13-0001	SY	Tack Coat, 0.04 Gallon/SY	0.53
		For Up To 150, Add	*0.10*
		For >150 To 300, Add	*0.05*
		For >300 To 500, Add	*0.03*
		For >3,500 To 5,000, Deduct	*-0.01*
		For >5,000, Deduct	*-0.03*
32 12 13 13-0002	SY	Tack Coat, 0.05 Gallon/SY	0.58
		For Up To 150, Add	*0.11*
		For >150 To 300, Add	*0.06*
		For >300 To 500, Add	*0.03*
		For >3,500 To 5,000, Deduct	*-0.01*
		For >5,000, Deduct	*-0.04*
32 12 13 13-0003	SY	Tack Coat, 0.07 Gallon/SY	0.68
		For Up To 150, Add	*0.14*
		For >150 To 300, Add	*0.07*
		For >300 To 500, Add	*0.03*
		For >3,500 To 5,000, Deduct	*-0.02*
		For >5,000, Deduct	*-0.04*
32 12 13 13-0004	SY	Tack Coat, 0.08 Gallon/SY	0.73
		For Up To 150, Add	*0.15*
		For >150 To 300, Add	*0.07*
		For >300 To 500, Add	*0.04*
		For >3,500 To 5,000, Deduct	*-0.02*
		For >5,000, Deduct	*-0.05*
32 12 13 13-0005	SY	Tack Coat, 0.10 Gallon/SY	0.84
		For Up To 150, Add	*0.18*
		For >150 To 300, Add	*0.08*
		For >300 To 500, Add	*0.04*
		For >3,500 To 5,000, Deduct	*-0.02*
		For >5,000, Deduct	*-0.05*
32 12 13 13-0006	SY	Tack Coat, 0.11 Gallon/SY	0.89
		For Up To 150, Add	*0.19*
		For >150 To 300, Add	*0.09*
		For >300 To 500, Add	*0.04*
		For >3,500 To 5,000, Deduct	*-0.02*
		For >5,000, Deduct	*-0.06*

32 12 13 19 Prime Coats *(32 12 13)*

32 12 13 19-0001	SY	Surface Prime Coat, 0.26 Gallon/SY	1.46
		For Up To 150, Add	*0.33*
		For >150 To 300, Add	*0.15*
		For >300 To 500, Add	*0.07*
		For >3,500 To 5,000, Deduct	*-0.04*
		For >5,000, Deduct	*-0.10*
32 12 13 19-0002	SY	Surface Prime Coat, 0.28 Gallon/SY	1.54
		For Up To 150, Add	*0.35*
		For >150 To 300, Add	*0.15*
		For >300 To 500, Add	*0.08*
		For >3,500 To 5,000, Deduct	*-0.04*
		For >5,000, Deduct	*-0.11*
32 12 13 19-0003	SY	Surface Prime Coat, 0.30 Gallon/SY	1.62
		For Up To 150, Add	*0.37*
		For >150 To 300, Add	*0.16*
		For >300 To 500, Add	*0.08*
		For >3,500 To 5,000, Deduct	*-0.04*
		For >5,000, Deduct	*-0.11*

32 12 16 Asphalt Paving *(32 12)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 12 16 13 Plant-Mix Asphalt Paving *(32 12 16)*

Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0037 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.

32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) *(32 12 16 13)*

Note: Meets Caltrans requirements.

32 12 16 13-0002	TON	Bituminous Hot Mix Intermediate Course 3,954 LB/CY	153.35	
		Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
		For PG64-10 Asphalt, Add	*18.59*	
		For Warm Mix Additive, Add	*8.05*	
		For Up To 25, Add	*20.63*	
		For >25 To 50, Add	*11.35*	
		For >500 To 1,000, Deduct	*-6.62*	
		For >1,000 To 2,500, Deduct	*-12.00*	
		For >2,500 To 5,000, Deduct	*-18.62*	
		For >5,000, Deduct	*-26.69*	
32 12 16 13-0003	SY	1" Thick Bituminous Hot Mix Binder Course	8.66	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*1.02*	
		For Up To 1,000, Add	*1.20*	
		For >1,000 To 2,000, Add	*0.67*	
		For >10,000 To 20,000, Deduct	*-0.38*	
		For >20,000 To 50,000, Deduct	*-0.69*	
		For >50,000 To 100,000, Deduct	*-1.06*	
		For >100,000, Deduct	*-1.53*	
32 12 16 13-0004	SY	1-1/2" Thick Bituminous Hot Mix Binder Course	12.88	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*1.53*	
		For Up To 700, Add	*1.77*	
		For >700 To 1,400, Add	*0.98*	
		For >7,000 To 14,000, Deduct	*-0.56*	
		For >14,000 To 32,000, Deduct	*-1.03*	
		For >32,000 To 64,000, Deduct	*-1.59*	
		For >64,000, Deduct	*-2.28*	
32 12 16 13-0005	SY	2" Thick Bituminous Hot Mix Binder Course	16.69	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*2.04*	
		For Up To 500, Add	*2.22*	
		For >500 To 1,000, Add	*1.22*	
		For >5,000 To 10,000, Deduct	*-0.74*	
		For >10,000 To 24,000, Deduct	*-1.35*	
		For >24,000 To 48,000, Deduct	*-2.09*	
		For >48,000, Deduct	*-3.00*	
32 12 16 13-0006	SY	2-1/2" Thick Bituminous Hot Mix Binder Course	21.06	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*2.55*	
		For Up To 400, Add	*2.84*	
		For >400 To 800, Add	*1.56*	
		For >4,000 To 8,000, Deduct	*-0.93*	
		For >8,000 To 20,000, Deduct	*-1.69*	
		For >20,000 To 40,000, Deduct	*-2.62*	
		For >40,000, Deduct	*-3.77*	
32 12 16 13-0007	SY	3" Thick Bituminous Hot Mix Binder Course	25.26	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*3.06*	
		For Up To 340, Add	*3.40*	
		For >340 To 680, Add	*2.89*	
		For >3,400 To 6,800, Deduct	*-1.12*	
		For >6,800 To 17,000, Deduct	*-2.03*	
		For >17,000 To 34,000, Deduct	*-3.15*	
		For >34,000, Deduct	*-4.52*	
32 12 16 13-0008	SY	3-1/2" Thick Bituminous Hot Mix Binder Course	29.47	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*3.57*	
		For Up To 280, Add	*3.97*	
		For >280 To 560, Add	*2.18*	
		For >2,800 To 5,600, Deduct	*-1.30*	
		For >5,600 To 14,000, Deduct	*-2.37*	
		For >14,000 To 28,000, Deduct	*-3.67*	
		For >28,000, Deduct	*-5.27*	
32 12 16 13-0009	SY	4" Thick Bituminous Hot Mix Binder Course	33.68	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*4.08*	
		For Up To 250, Add	*4.53*	
		For >250 To 500, Add	*2.49*	
		For >2,500 To 5,000, Deduct	*-1.49*	
		For >5,000 To 12,000, Deduct	*-2.71*	
		For >12,000 To 24,000, Deduct	*-4.20*	
		For >24,000, Deduct	*-6.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0010	SY	5" Thick Bituminous Hot Mix Binder Course	42.10	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*5.10*	
		For Up To 200, Add	*5.66*	
		For >200 To 400, Add	*3.12*	
		For >2,000 To 4,000, Deduct	*-1.86*	
		For >4,000 To 10,000, Deduct	*-3.39*	
		For >10,000 To 20,000, Deduct	*-5.25*	
		For >20,000, Deduct	*-7.53*	
32 12 16 13-0011	SY	6" Thick Bituminous Hot Mix Binder Course	50.52	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*6.12*	
		For Up To 160, Add	*6.80*	
		For >160 To 320, Add	*3.74*	
		For >1,600 To 3,200, Deduct	*-2.24*	
		For >3,200 To 8,000, Deduct	*-4.06*	
		For >8,000 To 16,000, Deduct	*-6.30*	
		For >16,000, Deduct	*-9.04*	

32 12 16 13-0012 Surface Courses, Hot Mix Asphalt (HMA) *(32 12 16 13)*

Note: Meets Caltrans requirements.

32 12 16 13-0013	TON	Bituminous Hot Mix Surface Course 3954 LB/CY	155.06	
		Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
		For PG64-10 Asphalt, Add	*2.96*	
		For Warm Mix Additive, Add	*7.69*	
		For Up To 25, Add	*22.13*	
		For >25 To 50, Add	*12.35*	
		For >500 To 1,000, Deduct	*-6.44*	
		For >1,000 To 2,500, Deduct	*-11.70*	
		For >2,500 To 5,000, Deduct	*-18.14*	
		For >5,000, Deduct	*-26.03*	
32 12 16 13-0014	TON	Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR)	171.83	
		Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
		For Warm Mix Additive, Add	*8.38*	
		For Up To 25, Add	*24.91*	
		For >25 To 50, Add	*13.96*	
		For >500 To 1,000, Deduct	*-7.06*	
		For >1,000 To 2,500, Deduct	*-12.83*	
		For >2,500 To 5,000, Deduct	*-19.90*	
		For >5,000, Deduct	*-28.56*	
32 12 16 13-0015	TON	Asphalt Rubberized Hot Mix (ARHM) Surface Course	183.66	
		Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
		For Warm Mix Additive, Add	*9.15*	
		For Up To 25, Add	*26.10*	
		For >25 To 50, Add	*14.55*	
		For >500 To 1,000, Deduct	*-7.65*	
		For >1,000 To 2,500, Deduct	*-13.90*	
		For >2,500 To 5,000, Deduct	*-21.55*	
		For >5,000, Deduct	*-30.92*	
32 12 16 13-0016	SY	1" Thick Bituminous Hot Mix Surface Course	8.41	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*0.16*	
		For Up To 1,000, Add	*1.24*	
		For >1,000 To 2,000, Add	*0.70*	
		For >10,000 To 20,000, Deduct	*-0.35*	
		For >20,000 To 50,000, Deduct	*-0.65*	
		For >50,000 To 100,000, Deduct	*-1.00*	
		For >100,000, Deduct	*-1.44*	
32 12 16 13-0017	SY	1-1/2" Thick Bituminous Hot Mix Surface Course	12.49	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*0.23*	
		For Up To 700, Add	*1.82*	
		For >700 To 1,400, Add	*1.02*	
		For >7,000 To 14,000, Deduct	*-0.53*	
		For >14,000 To 32,000, Deduct	*-0.96*	
		For >32,000 To 64,000, Deduct	*-1.49*	
		For >64,000, Deduct	*-2.15*	
32 12 16 13-0018	SY	2" Thick Bituminous Hot Mix Surface Course	16.07	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*0.31*	
		For Up To 500, Add	*2.27*	
		For >500 To 1,000, Add	*1.26*	
		For >5,000 To 10,000, Deduct	*-0.69*	
		For >10,000 To 24,000, Deduct	*-1.26*	
		For >24,000 To 48,000, Deduct	*-1.96*	
		For >48,000, Deduct	*-2.81*	
32 12 16 13-0019	SY	2-1/2" Thick Bituminous Hot Mix Surface Course	20.33	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	*0.39*	
		For Up To 400, Add	*2.90*	
		For >400 To 800, Add	*1.62*	
		For >4,000 To 8,000, Deduct	*-0.87*	
		For >8,000 To 20,000, Deduct	*-1.59*	
		For >20,000 To 40,000, Deduct	*-2.46*	
		For >40,000, Deduct	*-3.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0020	SY	3" Thick Bituminous Hot Mix Surface Course Note: Includes placement, rolling, finishing and sweeping.	24.38	
		For PG64-10 Asphalt, Add	*0.46*	
		For Up To 340, Add	*3.48*	
		For >340 To 680, Add	*2.87*	
		For >3,400 To 6,800, Deduct	*-1.05*	
		For >6,800 To 17,000, Deduct	*-1.90*	
		For >17,000 To 34,000, Deduct	*-2.95*	
		For >34,000, Deduct	*-4.24*	
32 12 16 13-0021	CSF	Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench	66.77	

32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) *(32 12 16 13)*

32 12 16 13-0023	TON	Hand Placed Hot Mixed Asphalt 3,954 LB/CY Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.	363.78	

32 12 16 19 Cold-Mix Asphalt Paving *(32 12 16)*

Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.

32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement *(32 12 16 19)*

Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.

32 12 16 19-0002	SY	Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course	13.63	
32 12 16 19-0003	SY	Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course	13.28	
32 12 16 19-0004	SY	Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	21.77	

32 12 16 39 Paving Fabrics *(32 12 16)*

See CSI section 31 32 19 16-0000 for geotextile fabric.

32 12 16 39-0001	SY	3.6 Oz/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O)	1.02	
		For Up To 50, Add	*0.24*	
		For >50 To 150, Add	*0.18*	
		For >150 To 250, Add	*0.12*	
		For >250 To 500, Add	*0.06*	
32 12 16 39-0002	SY	4.1 Oz/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O)	1.09	
		For Up To 50, Add	*0.26*	
		For >50 To 150, Add	*0.19*	
		For >150 To 250, Add	*0.12*	
		For >250 To 500, Add	*0.06*	

32 12 16 43 Waterproofing Membranes *(32 12 16)*

32 12 16 43-0001 Waterproofing Membranes *(32 12 16 43)*

32 12 16 43-0002	SY	Up To 500 SY, Preformed Rubberized Asphalt Membrane	34.90	
32 12 16 43-0003	SY	>500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	26.30	
32 12 16 43-0004	SY	>1,000 SY, Preformed Rubberized Asphalt Membrane	16.58	

32 12 33 Flexible Paving Surface Treatments *(32 12)*

32 12 33 00-0001 Bituminous Surface Treatment For Roadways *(32 12 33)*

Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.

32 12 33 00-0002	SY	Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	3.14	
32 12 33 00-0003	SY	Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.60	

32 12 33 00-0004 Bituminous Surface Treatment For Trails *(32 12 33)*

Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.

32 12 33 00-0005	SY	Bituminous Surface Treatment, For Trails	2.20	

32 12 36 Seal Coats *(32 12)*

See CSI section 32 01 13 62-0000 for slurry seal.

32 12 36 13 Asphaltic Seal and Fog Coats *(32 12 36)*

32 12 36 13-0001 Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13)*

Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.

32 12 36 13-0002 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13-0001)*

Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.

32 12 36 13-0003	SY	Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.81	
		For Each Additional 0.5% Latex Additive, Add	*0.22*	
32 12 36 13-0004	SY	>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.65	
		For Each Additional 0.5% Latex Additive, Add	*0.22*	
32 12 36 13-0005	SY	>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.53	
		For Each Additional 0.5% Latex Additive, Add	*0.22*	
32 12 36 13-0006	SY	>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.38	
		For Each Additional 0.5% Latex Additive, Add	*0.22*	
32 12 36 13-0007	SY	>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.30	
		For Each Additional 0.5% Latex Additive, Add	*0.22*	
32 12 36 13-0008	SY	>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.23	
		For Each Additional 0.5% Latex Additive, Add	*0.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0009	SY	>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.16	
		For Each Additional 0.5% Latex Additive, Add	*0.22*	
32 12 36 13-0010	SY	>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.13	
		For Each Additional 0.5% Latex Additive, Add	*0.22*	

32 12 36 13-0011 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13-0001)*

Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.

32 12 36 13-0012	SY	Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.39	
		For Each Additional 0.5% Latex Additive, Add	*0.27*	
32 12 36 13-0013	SY	>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.17	
		For Each Additional 0.5% Latex Additive, Add	*0.27*	
32 12 36 13-0014	SY	>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.00	
		For Each Additional 0.5% Latex Additive, Add	*0.27*	
32 12 36 13-0015	SY	>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.93	
		For Each Additional 0.5% Latex Additive, Add	*0.27*	
32 12 36 13-0016	SY	>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.70	
		For Each Additional 0.5% Latex Additive, Add	*0.27*	
32 12 36 13-0017	SY	>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.57	
		For Each Additional 0.5% Latex Additive, Add	*0.27*	
32 12 36 13-0018	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.47	
		For Each Additional 0.5% Latex Additive, Add	*0.27*	
32 12 36 13-0019	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.44	
		For Each Additional 0.5% Latex Additive, Add	*0.27*	

32 12 36 13-0020 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)

(32 12 36 13-0001)

Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.

32 12 36 13-0021	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.86	
		For Each Additional 0.5% Latex Additive, Add	*0.32*	
32 12 36 13-0022	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.58	
		For Each Additional 0.5% Latex Additive, Add	*0.32*	
32 12 36 13-0023	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.38	
		For Each Additional 0.5% Latex Additive, Add	*0.32*	
32 12 36 13-0024	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.14	
		For Each Additional 0.5% Latex Additive, Add	*0.32*	
32 12 36 13-0025	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.01	
		For Each Additional 0.5% Latex Additive, Add	*0.32*	
32 12 36 13-0026	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.81	
		For Each Additional 0.5% Latex Additive, Add	*0.32*	
32 12 36 13-0027	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.68	
		For Each Additional 0.5% Latex Additive, Add	*0.32*	
32 12 36 13-0028	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.64	
		For Each Additional 0.5% Latex Additive, Add	*0.32*	

32 12 36 13-0029 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)

(32 12 36 13-0001)

Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.

32 12 36 13-0030	SY	Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.93	
		For Each Additional 0.5% Latex Additive, Add	*0.37*	
32 12 36 13-0031	SY	>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.65	
		For Each Additional 0.5% Latex Additive, Add	*0.37*	
32 12 36 13-0032	SY	>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.44	
		For Each Additional 0.5% Latex Additive, Add	*0.37*	
32 12 36 13-0033	SY	>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.21	
		For Each Additional 0.5% Latex Additive, Add	*0.37*	
32 12 36 13-0034	SY	>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	3.07	
		For Each Additional 0.5% Latex Additive, Add	*0.37*	
32 12 36 13-0035	SY	>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.95	
		For Each Additional 0.5% Latex Additive, Add	*0.37*	
32 12 36 13-0036	SY	>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.76	
		For Each Additional 0.5% Latex Additive, Add	*0.37*	
32 12 36 13-0037	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	2.71	
		For Each Additional 0.5% Latex Additive, Add	*0.37*	

32 12 36 13-0038 Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) *(32 12 36 13-0001)*

Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.

32 12 36 13-0039	SY	Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.10	
		For Each Additional 0.5% Latex Additive, Add	*0.53*	
32 12 36 13-0040	SY	>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.67	
		For Each Additional 0.5% Latex Additive, Add	*0.53*	
32 12 36 13-0041	SY	>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.34	
		For Each Additional 0.5% Latex Additive, Add	*0.53*	
32 12 36 13-0042	SY	>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.95	
		For Each Additional 0.5% Latex Additive, Add	*0.53*	
32 12 36 13-0043	SY	>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.74	
		For Each Additional 0.5% Latex Additive, Add	*0.53*	
32 12 36 13-0044	SY	>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.48	
		For Each Additional 0.5% Latex Additive, Add	*0.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0045	SY	>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.28	
		For Each Additional 0.5% Latex Additive, Add	*0.53*	
32 12 36 13-0046	SY	>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.20	
		For Each Additional 0.5% Latex Additive, Add	*0.53*	

32 12 36 13-0047 Fog Seal, CQS-1h *(32 12 36 13)*

Note: A fog seal is a light application of diluted, slow-setting asphalt emulsion without aggregate cover. Includes sweeping and cleaning of area.

32 12 36 13-0048	SY	Up To 200 SY, CQS-1h, Fog Seal	1.44
32 12 36 13-0049	SY	>200 To 500 SY, CQS-1h, Fog Seal	0.97
32 12 36 13-0050	SY	>500 To 1,000 SY, CQS-1h, Fog Seal	0.79
32 12 36 13-0051	SY	>1,000 To 5,000 SY, CQS-1h, Fog Seal	0.65
32 12 36 13-0052	SY	>5,000 To 10,000 SY, CQS-1h, Fog Seal	0.57
32 12 36 13-0053	SY	>10,000 To 20,000 SY, CQS-1h, Fog Seal	0.50
32 12 36 13-0054	SY	>20,000 To 50,000 SY, CQS-1h, Fog Seal	0.45
32 12 36 13-0055	SY	>50,000 SY, CQS-1h, Fog Seal	0.43

32 12 36 13-0056 Sand Sealer *(32 12 36 13)*

Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.

32 12 36 13-0057	SY	Up To 200 SY, Sand Seal	2.21
32 12 36 13-0058	SY	>200 To 500 SY, Sand Seal	1.40
32 12 36 13-0059	SY	>500 To 1,000 SY, Sand Seal	1.39
32 12 36 13-0060	SY	>1,000 To 5,000 SY, Sand Seal	1.19
32 12 36 13-0061	SY	>5,000 To 10,000 SY, Sand Seal	1.09
32 12 36 13-0062	SY	>10,000 To 20,000 SY, Sand Seal	1.01
32 12 36 13-0063	SY	>20,000 To 50,000 SY, Sand Seal	0.94
32 12 36 13-0064	SY	>50,000 SY, Sand Seal	0.92

32 12 36 16 Coal Tar Seal Coats *(32 12 36)*

32 12 36 16-0001 Thermoplastic Coal-Tar Asphalt Seal *(32 12 36 16)*

Note: Includes sweeping and cleaning of area.

32 12 36 16-0002	SY	Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	7.78
32 12 36 16-0003	SY	>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	7.18
32 12 36 16-0004	SY	>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	6.26
32 12 36 16-0005	SY	>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	5.52
32 12 36 16-0006	SY	>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	4.59
32 12 36 16-0007	SY	>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	3.67
32 12 36 16-0008	SY	Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	9.10
32 12 36 16-0009	SY	>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	8.45
32 12 36 16-0010	SY	>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	7.39
32 12 36 16-0011	SY	>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	6.56
32 12 36 16-0012	SY	>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	5.50
32 12 36 16-0013	SY	>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	4.44

32 12 36 23 Fuel-Resistant Sealers *(32 12 36)*

32 12 36 23-0001 Guardtop Seal Coat *(32 12 36 23)*

Note: Includes sweeping and cleaning of area.

32 12 36 23-0002	SY	GuardTop® Asphalt Based Sealcoat (Two Coats)	2.56
		For 3% Polyglass Additive, Add	*0.40*
		For 6% Polyglass Additive, Add	*0.72*
		For Guardtop Black Sand 60 Mesh Additive (At 3 Pounds Per Gallon), Add	*0.27*
32 12 36 23-0003	LF	GuardTop® Cold Pour Crack Filler	1.13
32 12 36 23-0004	LF	GuardTop® Hot Pour Crack Filler	1.31
32 12 36 23-0005	SY	GuardTop® Oil Spot Primer For Asphalt	4.22
32 12 36 23-0006	SY	GuardTop® Ultra, Polymer Modified, Asphalt Based Sealcoat (Two Coats)	3.38
		For 3% Polyglass Additive, Add	*0.40*
		For 6% Polyglass Additive, Add	*0.72*
		For Guardtop Black Sand 60 Mesh Additive (At 3 Pounds Per Gallon), Add	*0.27*

32 12 43 Porous Flexible Paving *(32 12)*

32 12 43 00-0001 Flexible Recycled Plastic Porous Grid *(32 12 43)*

Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.

32 12 43 00-0002	SY	1" Thick, Recycled Plastic Flexible Pavement With Sand Fill Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.	27.84
		For Up To 100, Add	*9.64*
		For >100 To 500, Add	*2.46*
		For >1,000 To 5,000, Deduct	*-1.07*
		For >5,000, Deduct	*-2.12*

32 12 73 Asphalt Paving Joint Sealants *(32 12)*

32 12 73 00-0001 Expansion Joint In Sidewalk *(32 12 73)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 73 00-0002	LF	For Hot Asphalt Poured Over Expansion Joint In Sidewalk	4.24	

32 13 Rigid Paving *(32 10)*

32 13 13 Concrete Paving *(32 13)*

Note: The following section includes spreading and placing delivered Portland cement concrete mix.

32 13 13 33 Plain Concrete Paving *(32 13 13)*

32 13 13 33-0001 Concrete Paving Assemblies *(32 13 13 33)*

Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.

32 13 13 33-0002 4,500 PSI Concrete Paving Assembly *(32 13 13 33-0001)*

32 13 13 33-0003	SY	4" 4,500 PSI Concrete Paving Assembly	54.32	
		For 2,500 PSI Concrete, Deduct	*-3.15*	
		For 3,000 PSI Concrete, Deduct	*-2.06*	
		For 3,500 PSI Concrete, Deduct	*-1.65*	
		For 4,000 PSI Concrete, Deduct	*-0.71*	
		For 5,000 PSI Concrete, Add	*0.44*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*3.56*	
		For <12' Wide Pass, Add	*9.47*	
		For 24' Or Greater Wide Pass, Deduct	*-10.86*	
		For Air Entrainment, Add	*1.37*	
		For Slipforming, Deduct	*-5.43*	
		For Up To 100, Add	*21.62*	
		For >100 To 250, Add	*12.18*	
		For >250 To 500, Add	*6.09*	
		For >1,000 To 2,000, Deduct	*-1.37*	
		For >2,000 To 5,000, Deduct	*-2.73*	
		For >5,000 To 10,000, Deduct	*-4.09*	
		For >10,000 To 20,000, Deduct	*-5.45*	
		For >20,000, Deduct	*-6.80*	
32 13 13 33-0004	SY	5" 4,500 PSI Concrete Paving Assembly	64.30	
		For 2,500 PSI Concrete, Deduct	*-3.96*	
		For 3,000 PSI Concrete, Deduct	*-2.58*	
		For 3,500 PSI Concrete, Deduct	*-2.06*	
		For 4,000 PSI Concrete, Deduct	*-0.89*	
		For 5,000 PSI Concrete, Add	*0.55*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*4.47*	
		For <12' Wide Pass, Add	*10.91*	
		For 24' Or Greater Wide Pass, Deduct	*-12.86*	
		For Air Entrainment, Add	*1.72*	
		For Slipforming, Deduct	*-6.43*	
		For Up To 100, Add	*24.82*	
		For >100 To 250, Add	*14.13*	
		For >250 To 500, Add	*7.06*	
		For >1,000 To 2,000, Deduct	*-1.72*	
		For >2,000 To 5,000, Deduct	*-3.33*	
		For >5,000 To 10,000, Deduct	*-4.94*	
		For >10,000 To 20,000, Deduct	*-6.54*	
		For >20,000, Deduct	*-8.15*	
32 13 13 33-0005	SY	6" 4,500 PSI Concrete Paving Assembly	68.67	
		For 2,500 PSI Concrete, Deduct	*-4.17*	
		For 3,000 PSI Concrete, Deduct	*-2.72*	
		For 3,500 PSI Concrete, Deduct	*-2.18*	
		For 4,000 PSI Concrete, Deduct	*-0.94*	
		For 5,000 PSI Concrete, Add	*0.58*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*4.72*	
		For <12' Wide Pass, Add	*11.72*	
		For 24' Or Greater Wide Pass, Deduct	*-13.73*	
		For Air Entrainment, Add	*1.82*	
		For Slipforming, Deduct	*-6.87*	
		For Up To 100, Add	*26.68*	
		For >100 To 250, Add	*15.16*	
		For >250 To 500, Add	*7.58*	
		For >1,000 To 2,000, Deduct	*-1.82*	
		For >2,000 To 5,000, Deduct	*-3.53*	
		For >5,000 To 10,000, Deduct	*-5.25*	
		For >10,000 To 20,000, Deduct	*-6.97*	
		For >20,000, Deduct	*-8.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0006	SY	7" 4,500 PSI Concrete Paving Assembly	81.63	
		For 2,500 PSI Concrete, Deduct	*-5.26*	
		For 3,000 PSI Concrete, Deduct	*-3.43*	
		For 3,500 PSI Concrete, Deduct	*-2.75*	
		For 4,000 PSI Concrete, Deduct	*-1.19*	
		For 5,000 PSI Concrete, Add	*0.73*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*5.95*	
		For <12' Wide Pass, Add	*13.54*	
		For 24' Or Greater Wide Pass, Deduct	*-16.33*	
		For Air Entrainment, Add	*2.29*	
		For Slipforming, Deduct	*-8.16*	
		For Up To 100, Add	*30.67*	
		For >100 To 250, Add	*17.62*	
		For >250 To 500, Add	*8.81*	
		For >1,000 To 2,000, Deduct	*-2.29*	
		For >2,000 To 5,000, Deduct	*-4.33*	
		For >5,000 To 10,000, Deduct	*-6.37*	
		For >10,000 To 20,000, Deduct	*-8.41*	
		For >20,000, Deduct	*-10.45*	
32 13 13 33-0007	SY	8" 4,500 PSI Concrete Paving Assembly	93.27	
		For 2,500 PSI Concrete, Deduct	*-5.78*	
		For 3,000 PSI Concrete, Deduct	*-3.77*	
		For 3,500 PSI Concrete, Deduct	*-3.01*	
		For 4,000 PSI Concrete, Deduct	*-1.31*	
		For 5,000 PSI Concrete, Add	*0.80*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*6.53*	
		For <12' Wide Pass, Add	*15.78*	
		For 24' Or Greater Wide Pass, Deduct	*-18.65*	
		For Air Entrainment, Add	*2.51*	
		For Slipforming, Deduct	*-9.33*	
		For Up To 100, Add	*35.87*	
		For >100 To 250, Add	*20.45*	
		For >250 To 500, Add	*10.22*	
		For >1,000 To 2,000, Deduct	*-2.51*	
		For >2,000 To 5,000, Deduct	*-4.84*	
		For >5,000 To 10,000, Deduct	*-7.18*	
		For >10,000 To 20,000, Deduct	*-9.51*	
		For >20,000, Deduct	*-11.84*	
32 13 13 33-0008	SY	9" 4,500 PSI Concrete Paving Assembly	105.57	
		For 2,500 PSI Concrete, Deduct	*-6.68*	
		For 3,000 PSI Concrete, Deduct	*-4.35*	
		For 3,500 PSI Concrete, Deduct	*-3.48*	
		For 4,000 PSI Concrete, Deduct	*-1.51*	
		For 5,000 PSI Concrete, Add	*0.93*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*7.55*	
		For <12' Wide Pass, Add	*17.68*	
		For 24' Or Greater Wide Pass, Deduct	*-21.11*	
		For Air Entrainment, Add	*2.90*	
		For Slipforming, Deduct	*-10.56*	
		For Up To 100, Add	*40.12*	
		For >100 To 250, Add	*22.96*	
		For >250 To 500, Add	*11.48*	
		For >1,000 To 2,000, Deduct	*-2.90*	
		For >2,000 To 5,000, Deduct	*-5.54*	
		For >5,000 To 10,000, Deduct	*-8.18*	
		For >10,000 To 20,000, Deduct	*-10.82*	
		For >20,000, Deduct	*-13.46*	
32 13 13 33-0009	SY	10" 4,500 PSI Concrete Paving Assembly	117.65	
		For 2,500 PSI Concrete, Deduct	*-7.34*	
		For 3,000 PSI Concrete, Deduct	*-4.79*	
		For 3,500 PSI Concrete, Deduct	*-3.83*	
		For 4,000 PSI Concrete, Deduct	*-1.66*	
		For 5,000 PSI Concrete, Add	*1.02*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*8.30*	
		For <12' Wide Pass, Add	*19.83*	
		For 24' Or Greater Wide Pass, Deduct	*-23.53*	
		For Air Entrainment, Add	*3.19*	
		For Slipforming, Deduct	*-11.77*	
		For Up To 100, Add	*45.05*	
		For >100 To 250, Add	*25.72*	
		For >250 To 500, Add	*12.86*	
		For >1,000 To 2,000, Deduct	*-3.19*	
		For >2,000 To 5,000, Deduct	*-6.13*	
		For >5,000 To 10,000, Deduct	*-9.08*	
		For >10,000 To 20,000, Deduct	*-12.02*	
		For >20,000, Deduct	*-14.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0010	SY	12" 4,500 PSI Concrete Paving Assembly	140.17	
		For 2,500 PSI Concrete, Deduct	*-8.70*	
		For 3,000 PSI Concrete, Deduct	*-5.67*	
		For 3,500 PSI Concrete, Deduct	*-4.54*	
		For 4,000 PSI Concrete, Deduct	*-1.97*	
		For 5,000 PSI Concrete, Add	*1.21*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*9.83*	
		For <12' Wide Pass, Add	*23.70*	
		For 24' Or Greater Wide Pass, Deduct	*-28.03*	
		For Air Entrainment, Add	*3.78*	
		For Slipforming, Deduct	*-14.02*	
		For Up To 100, Add	*53.85*	
		For >100 To 250, Add	*30.71*	
		For >250 To 500, Add	*15.35*	
		For >1,000 To 2,000, Deduct	*-3.78*	
		For >2,000 To 5,000, Deduct	*-7.29*	
		For >5,000 To 10,000, Deduct	*-10.79*	
		For >10,000 To 20,000, Deduct	*-14.29*	
		For >20,000, Deduct	*-17.80*	
32 13 13 33-0011	SY	15" 4,500 PSI Concrete Paving Assembly	178.52	
		For 2,500 PSI Concrete, Deduct	*-10.68*	
		For 3,000 PSI Concrete, Deduct	*-6.96*	
		For 3,500 PSI Concrete, Deduct	*-5.57*	
		For 4,000 PSI Concrete, Deduct	*-2.41*	
		For 5,000 PSI Concrete, Add	*1.49*	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	*12.07*	
		For <12' Wide Pass, Add	*30.70*	
		For 24' Or Greater Wide Pass, Deduct	*-35.70*	
		For Air Entrainment, Add	*4.64*	
		For Slipforming, Deduct	*-17.85*	
		For Up To 100, Add	*69.97*	
		For >100 To 250, Add	*39.63*	
		For >250 To 500, Add	*19.81*	
		For >1,000 To 2,000, Deduct	*-4.64*	
		For >2,000 To 5,000, Deduct	*-9.11*	
		For >5,000 To 10,000, Deduct	*-13.57*	
		For >10,000 To 20,000, Deduct	*-18.03*	
		For >20,000, Deduct	*-22.50*	

32 13 16 Decorative Concrete Paving *(32 13)*

32 13 16 13 Patterned Concrete Paving *(32 13 16)*

See CSI section 32 17 26 00-0000 for tactile warning surfaces.

32 13 16 13-0001	SF	For Patterned (Tactile) Finish In Concrete Sidewalk	4.24	

32 13 43 Pervious Concrete Paving *(32 13)*

32 13 43 00-0001 Pervious Concrete Assembly *(32 13 43)*

Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.

32 13 43 00-0002	SF	6" Thick Pervious Concrete Paving	14.43	
		Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
		For >5,000 To 30,000, Deduct	*-1.59*	
		For >30,000 To 100,000, Deduct	*-2.97*	
		For >100,000, Deduct	*-3.69*	
32 13 43 00-0003	SF	9" Thick Pervious Concrete Paving	18.01	
		Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
		For >5,000 To 30,000, Deduct	*-1.94*	
		For >30,000 To 100,000, Deduct	*-3.56*	
		For >100,000, Deduct	*-4.42*	

32 13 73 Concrete Paving Joint Sealants *(32 13)*

32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants *(32 13 73)*

32 13 73 13-0001 Concrete Pavement Joint And Crack Repair *(32 13 73 13)*

Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.

32 13 73 13-0002	LF	Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads	8.65	

32 13 73 16 Field-Molded Concrete Paving Joint Sealants *(32 13 73)*

32 13 73 16-0001 Preformed Elastomeric Concrete Pavement Joint And Crack Repair *(32 13 73 16)*

Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.

32 13 73 16-0002	LF	Joint Sealing, Concrete Pavement Preformed Elastomeric	13.08	

32 13 73 19 Compression Concrete Paving Joint Sealants *(32 13 73)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 73 19-0001		**Silicone Joint Sealant For Concrete Pavement** *(32 13 73 19)* Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002	LF	1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	9.74	2.33
32 13 73 19-0003	LF	3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.14	2.38
32 13 73 19-0004	LF	1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.57	2.42
32 13 73 19-0005	LF	3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	11.91	2.47
32 13 73 19-0006	LF	1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	13.48	2.52
32 13 73 19-0007	LF	1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	15.75	2.58
32 13 73 19-0008	LF	2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	19.56	2.63

32 14 Unit Paving *(32 10)*

32 14 09 Paver Restraints *(32 14)*

32 14 09 00-0001		**Paver Restraints** *(32 14 09)* Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		
32 14 09 00-0002	LF	Up To 2" Height, Vinyl Paver Restraint	3.75	1.04
		For >1,000 To 2,000, Deduct	*-0.46*	
		For >2,000 To 4,000, Deduct	*-0.67*	
		For >4,000, Deduct	*-0.86*	
32 14 09 00-0003	LF	Up To 2" Height, Galvanized Steel Paver Restraint	4.03	1.04
		For >500 To 1,000, Deduct	*-0.12*	
		For >1,000 To 2,000, Deduct	*-0.24*	
		For >2,000, Deduct	*-0.36*	
32 14 09 00-0004	LF	Up To 1" Height, Aluminum Paver Restraint	3.89	1.04
		For >250 To 500, Deduct	*-0.22*	
		For >500 To 1,000, Deduct	*-0.34*	
		For >1,000 To 1,500, Deduct	*-0.56*	
32 14 09 00-0005	LF	>1" To 2" Height, Aluminum Paver Restraint	4.52	1.04
		For >250 To 500, Deduct	*-0.29*	
		For >500 To 1,000, Deduct	*-0.43*	
		For >1,000 To 1,500, Deduct	*-0.72*	
32 14 09 00-0006	LF	>2" To 3" Height, Aluminum Paver Restraint	5.73	1.04
		For >250 To 500, Deduct	*-0.41*	
		For >500 To 1,000, Deduct	*-0.61*	
		For >1,000 To 1,500, Deduct	*-1.02*	
32 14 09 00-0007	LF	>3" To 4" Height, Aluminum Paver Restraint	6.65	1.04
		For >250 To 500, Deduct	*-0.50*	
		For >500 To 1,000, Deduct	*-0.75*	
		For >1,000 To 1,500, Deduct	*-1.25*	

32 14 11 Bedding for Unit Paving *(32 14)*

32 14 11 00-0001		**Bedding For Brick, Precast Concrete Paver And Stone Sidewalk** *(32 14 11)* Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.		
32 14 11 00-0002	SF	1" To 2" Sand Bedding, Screeded	0.96	
		For Up To 100, Add	*0.41*	
		For >100 To 500, Add	*0.12*	
		For >1,000 To 5,000, Deduct	*-0.07*	
		For >5,000, Deduct	*-0.11*	
32 14 11 00-0003	SF	1" To 2" Stone Dust Bedding, Screeded	1.19	
		For Up To 100, Add	*0.47*	
		For >100 To 500, Add	*0.13*	
		For >1,000 To 5,000, Deduct	*-0.07*	
		For >5,000, Deduct	*-0.12*	
32 14 11 00-0004	SF	3" Stone Dust Bedding, Screeded	1.56	
		For Up To 100, Add	*0.59*	
		For >100 To 500, Add	*0.16*	
		For >1,000 To 5,000, Deduct	*-0.08*	
		For >5,000, Deduct	*-0.14*	
32 14 11 00-0005	SF	4" Stone Dust Bedding, Screeded	2.01	
		For Up To 100, Add	*0.75*	
		For >100 To 500, Add	*0.20*	
		For >1,000 To 5,000, Deduct	*-0.10*	
		For >5,000, Deduct	*-0.18*	
32 14 11 00-0006	SF	1" Mortar Bedding	2.80	
		For Up To 100, Add	*1.26*	
		For >100 To 500, Add	*0.36*	
		For >1,000 To 5,000, Deduct	*-0.22*	
		For >5,000, Deduct	*-0.35*	
32 14 11 00-0007	SF	2" Mortar Bedding	4.13	
		For Up To 100, Add	*1.78*	
		For >100 To 500, Add	*0.50*	
		For >1,000 To 5,000, Deduct	*-0.30*	
		For >5,000, Deduct	*-0.48*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 11 00-0008	SF	Thin-Set Latex Portland Cement Mortar	1.49	
		For Up To 100, Add	*0.67*	
		For >100 To 500, Add	*0.19*	
		For >1,000 To 5,000, Deduct	*-0.12*	
		For >5,000, Deduct	*-0.19*	

32 14 13 Precast Concrete Unit Paving *(32 14)*

32 14 13 16 Precast Concrete Unit Paving Slabs *(32 14 13)*

32 14 13 16-0001 Precast Concrete Paver Sidewalk *(32 14 13 16)*

Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 13 16-0002	SF	2-3/8" Thick, Up To 32 SI Precast Concrete Paver	10.23	2.78
		Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	*0.98*	
		For 3-1/8" Concrete Paver, Add	*1.58*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.79*	
		For Up To 100, Add	*3.95*	
		For >100 To 500, Add	*1.07*	
		For >1,000 To 5,000, Deduct	*-0.56*	
		For >5,000, Deduct	*-0.98*	
32 14 13 16-0003	SF	2-3/8" Thick, >32 to 64 SI Precast Concrete Paver	9.73	2.54
		Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	*0.95*	
		For 3-1/8" Concrete Paver, Add	*1.54*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.74*	
		For Up To 100, Add	*3.70*	
		For >100 To 500, Add	*0.99*	
		For >1,000 To 5,000, Deduct	*-0.51*	
		For >5,000, Deduct	*-0.90*	
32 14 13 16-0004	SF	2-3/8" Thick, >64 to 144 SI Precast Concrete Paver	9.26	2.02
		Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	*0.93*	
		For 3-1/8" Concrete Paver, Add	*1.51*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.69*	
		For Up To 100, Add	*3.47*	
		For >100 To 500, Add	*0.92*	
		For >1,000 To 5,000, Deduct	*-0.46*	
		For >5,000, Deduct	*-0.83*	
32 14 13 16-0005	SF	2-3/8" Thick, >144 SI Precast Concrete Paver	8.84	2.10
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	*0.91*	
		For 3-1/8" Concrete Paver, Add	*1.48*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.65*	
		For Up To 100, Add	*3.26*	
		For >100 To 500, Add	*0.86*	
		For >1,000 To 5,000, Deduct	*-0.42*	
		For >5,000, Deduct	*-0.77*	
32 14 13 16-0006	SF	2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns	9.49	2.41
		Note: Patterns made by combining pavers from two or more size groups.		
		For 2-3/4" Concrete Paver, Add	*0.94*	
		For 3-1/8" Concrete Paver, Add	*1.53*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.72*	
		For Up To 100, Add	*3.58*	
		For >100 To 500, Add	*0.96*	
		For >1,000 To 5,000, Deduct	*-0.48*	
		For >5,000, Deduct	*-0.87*	

32 14 13 19 Porous Precast Concrete Unit Paving *(32 14 13)*

32 14 13 19-0001 Turf Block *(32 14 13 19)*

Note: Grass grid, open-cell unit paver, geoblock.

32 14 13 19-0002	SF	3-1/8" Thick, Precast Concrete Turf Block	9.09	2.41
		For Up To 100, Add	*3.48*	
		For >100 To 500, Add	*0.94*	
		For >1,000 To 5,000, Deduct	*-0.48*	
		For >5,000, Deduct	*-0.85*	

32 14 16 Brick Unit Paving *(32 14)*

32 14 16 00-0001 Brick Paver Sidewalk *(32 14 16)*

Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 16 00-0002	SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat	11.16	2.78
		For 1-3/8" Thick Paver, Deduct	*-2.23*	
		For 2-3/4" Thick Paver (Vehicular), Add	*5.04*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.84*	
		For Up To 100, Add	*4.19*	
		For >100 To 500, Add	*1.12*	
		For >1,000 To 5,000, Deduct	*-0.56*	
		For >5,000, Deduct	*-1.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 16 00-0003	SF	4" x 8" x 2-1/4" Brick, Laid On Edge	16.28	3.18
		For 1-3/8" Thick Paver, Deduct	*-3.79*	
		For 2-3/4" Thick Paver (Vehicular), Add	*8.79*	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.13*	
		For Up To 100, Add	*5.66*	
		For >100 To 500, Add	*1.45*	
		For >1,000 To 5,000, Deduct	*-0.64*	
		For >5,000, Deduct	*-1.25*	

32 14 33 Plastic Paving *(32 14)*

32 14 33 13 Permeable Plastic Paving *(32 14 33)*

32 14 33 13-0001 Turf Block Plastic Paving *(32 14 33 13)*

32 14 33 13-0002	SF	4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block	13.26	2.41
		For Up To 100, Add	*4.53*	
		For >100 To 500, Add	*1.15*	
		For >1,000 To 5,000, Deduct	*-0.48*	
		For >5,000, Deduct	*-0.98*	

32 14 40 Stone Paving *(32 14)*

32 14 40 00-0001 Slate Paver Sidewalk *(32 14 40)*

Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 40 00-0002	SF	1" Thick, Up to 54 SI Slate Paver	15.40	2.31
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.00*	
		For 1/4" Thick Paver, Deduct	*-8.06*	
		For 1/2" Thick Paver, Deduct	*-5.65*	
		For Up To 100, Add	*5.00*	
		For >100 To 500, Add	*1.23*	
		For >1,000 To 5,000, Deduct	*-0.46*	
		For >5,000, Deduct	*-1.02*	
32 14 40 00-0003	SF	1" Thick, >54 to 108 SI Slate Paver	14.98	2.10
		Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.96*	
		For 1/4" Thick Paver, Deduct	*-7.95*	
		For 1/2" Thick Paver, Deduct	*-5.59*	
		For Up To 100, Add	*4.79*	
		For >100 To 500, Add	*1.17*	
		For >1,000 To 5,000, Deduct	*-0.42*	
		For >5,000, Deduct	*-0.95*	
32 14 40 00-0004	SF	1" Thick, >108 to 216 SI Slate Paver	14.26	1.73
		Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.89*	
		For 1/4" Thick Paver, Deduct	*-7.77*	
		For 1/2" Thick Paver, Deduct	*-5.48*	
		For Up To 100, Add	*4.43*	
		For >100 To 500, Add	*1.06*	
		For >1,000 To 5,000, Deduct	*-0.35*	
		For >5,000, Deduct	*-0.84*	
32 14 40 00-0005	SF	1" Thick, >216 SI Slate Paver	13.94	1.57
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.85*	
		For 1/4" Thick Paver, Deduct	*-7.69*	
		For 1/2" Thick Paver, Deduct	*-5.44*	
		For Up To 100, Add	*4.27*	
		For >100 To 500, Add	*1.01*	
		For >1,000 To 5,000, Deduct	*-0.32*	
		For >5,000, Deduct	*-0.80*	
32 14 40 00-0006	SF	1" Thick, Slate Paver, Combinations And Patterns	14.59	1.90
		Note: Patterns made by combining pavers from two or more size groups.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*0.92*	
		For 1/4" Thick Paver, Deduct	*-7.86*	
		For 1/2" Thick Paver, Deduct	*-5.53*	
		For Up To 100, Add	*4.60*	
		For >100 To 500, Add	*1.11*	
		For >1,000 To 5,000, Deduct	*-0.38*	
		For >5,000, Deduct	*-0.89*	

32 14 40 00-0007 Granite Paver Sidewalk *(32 14 40)*

Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.

32 14 40 00-0008	SF	1" Thick, Up to 54 SI Granite Paver	22.36	2.31
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.35*	
		For 2" Granite Paver, Add	*1.12*	
		For 3" Granite Paver, Add	*2.24*	
		For 4" Granite Paver, Add	*2.47*	
		For Up To 100, Add	*6.74*	
		For >100 To 500, Add	*1.58*	
		For >1,000 To 5,000, Deduct	*-0.46*	
		For >5,000, Deduct	*-1.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0009	SF	1" Thick, >54 to 108 SI Granite Paver	21.94	2.10
		Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.31*	
		For 2" Granite Paver, Add	*1.10*	
		For 3" Granite Paver, Add	*2.19*	
		For 4" Granite Paver, Add	*2.40*	
		For Up To 100, Add	*6.53*	
		For >100 To 500, Add	*1.52*	
		For >1,000 To 5,000, Deduct	*-0.42*	
		For >5,000, Deduct	*-1.16*	
32 14 40 00-0010	SF	1" Thick, >108 to 216 SI Granite Paver	21.22	1.73
		Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.23*	
		For 2" Granite Paver, Add	*1.06*	
		For 3" Granite Paver, Add	*2.12*	
		For 4" Granite Paver, Add	*2.30*	
		For Up To 100, Add	*6.17*	
		For >100 To 500, Add	*1.41*	
		For >1,000 To 5,000, Deduct	*-0.35*	
		For >5,000, Deduct	*-1.05*	
32 14 40 00-0011	SF	1" Thick, >216 SI Granite Paver	20.90	1.57
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.20*	
		For 2" Granite Paver, Add	*1.05*	
		For 3" Granite Paver, Add	*2.09*	
		For 4" Granite Paver, Add	*2.25*	
		For Up To 100, Add	*6.01*	
		For >100 To 500, Add	*1.36*	
		For >1,000 To 5,000, Deduct	*-0.32*	
		For >5,000, Deduct	*-1.01*	
32 14 40 00-0012	SF	1" Thick, Granite Paver, Combinations And Patterns	21.55	1.90
		Note: Patterns made by combining pavers from two or more size groups.		
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	*1.27*	
		For 2" Granite Paver, Add	*1.08*	
		For 3" Granite Paver, Add	*2.16*	
		For 4" Granite Paver, Add	*2.35*	
		For Up To 100, Add	*6.34*	
		For >100 To 500, Add	*1.46*	
		For >1,000 To 5,000, Deduct	*-0.38*	
		For >5,000, Deduct	*-1.10*	

32 15 Aggregate Surfacing *(32 10)*

32 15 40 Crushed Stone Surfacing *(32 15)*

Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

32 15 40 00-0001 Gravel Surfacing And Spreading *(32 15 40)*

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0002	CY	Gravel Surfacing And Spreading	79.54	

32 15 40 00-0003 Limestone Screenings *(32 15 40)*

Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.

32 15 40 00-0004	CY	Limestone Screenings For Trail	72.05	

32 15 40 00-0005 Decomposed Granite *(32 15 40)*

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0006	SY	3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	14.03	
		Note: Placed in 2 lifts.		
		For Additional 2" Lift	*7.02*	
		For >45 To 180, Deduct	*-0.99*	
		For >180 To 450, Deduct	*-1.28*	
		For >450, Deduct	*-1.56*	

32 16 Curbs, Gutters, Sidewalks, and Driveways *(32 10)*

32 16 13 Curbs and Gutters *(32 16)*

Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0057 for additional saw cuts within the 100'.

32 16 13 13 Cast-In-Place Concrete Curbs and Gutters *(32 16 13)*

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0001 Cast In Place Concrete Curbs *(32 16 13 13)*

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0002	LF	6" x 12" Cast In Place Concrete Curb (Type A1-6)	17.46	8.97
		For Mountable Curb, Add	*1.26*	
		For Up To 20, Add	*10.66*	
		For >20 To 50, Add	*6.05*	
		For >50 To 100, Add	*2.31*	
		For >500 To 1,000, Deduct	*-2.31*	
		For >1,000, Deduct	*-3.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0003	LF	6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6)	20.03	10.31
		For Mountable Curb, Add	*1.47*	
		For Up To 20, Add	*12.30*	
		For >20 To 50, Add	*6.98*	
		For >50 To 100, Add	*2.66*	
		For >500 To 1,000, Deduct	*-2.66*	
		For >1,000, Deduct	*-4.49*	
32 16 13 13-0004	LF	6" x 14" Cast In Place Concrete Curb (Type A1-8)	19.21	8.97
		For Mountable Curb, Add	*1.38*	
		For Up To 20, Add	*11.69*	
		For >20 To 50, Add	*6.63*	
		For >50 To 100, Add	*2.53*	
		For >500 To 1,000, Deduct	*-2.53*	
		For >1,000, Deduct	*-4.27*	
32 16 13 13-0005	LF	6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8)	22.03	10.31
		For Mountable Curb, Add	*1.60*	
		For Up To 20, Add	*13.49*	
		For >20 To 50, Add	*7.65*	
		For >50 To 100, Add	*2.92*	
		For >500 To 1,000, Deduct	*-2.92*	
		For >1,000, Deduct	*-4.93*	
32 16 13 13-0006	LF	6" x 16" Cast In Place Concrete Curb	21.15	8.97
		For Mountable Curb, Add	*1.48*	
		For Up To 20, Add	*12.75*	
		For >20 To 50, Add	*7.22*	
		For >50 To 100, Add	*2.76*	
		For >500 To 1,000, Deduct	*-2.76*	
		For >1,000, Deduct	*-4.67*	
32 16 13 13-0007	LF	6" x 16" Cast In Place Concrete Curb - Radius	24.17	13.45
		For Mountable Curb, Add	*1.73*	
		For Up To 20, Add	*14.69*	
		For >20 To 50, Add	*8.33*	
		For >50 To 100, Add	*3.18*	
		For >500 To 1,000, Deduct	*-3.18*	
		For >1,000, Deduct	*-5.38*	
32 16 13 13-0008	LF	6" x 18" Cast In Place Concrete Curb	22.70	8.97
		For Mountable Curb, Add	*1.56*	
		For Up To 20, Add	*13.60*	
		For >20 To 50, Add	*7.71*	
		For >50 To 100, Add	*2.95*	
		For >500 To 1,000, Deduct	*-2.95*	
		For >1,000, Deduct	*-4.99*	
32 16 13 13-0009	LF	6" x 18" Cast In Place Concrete Curb - Radius	25.65	10.31
		For Mountable Curb, Add	*1.79*	
		For Up To 20, Add	*15.44*	
		For >20 To 50, Add	*8.75*	
		For >50 To 100, Add	*3.34*	
		For >500 To 1,000, Deduct	*-3.34*	
		For >1,000, Deduct	*-5.66*	
32 16 13 13-0010	LF	6" x 24" Cast In Place Concrete Curb	26.10	9.87
		For Mountable Curb, Add	*1.65*	
		For Up To 20, Add	*15.19*	
		For >20 To 50, Add	*8.59*	
		For >50 To 100, Add	*3.30*	
		For >500 To 1,000, Deduct	*-3.30*	
		For >1,000, Deduct	*-5.60*	
32 16 13 13-0011	LF	6" x 24" Cast In Place Concrete Curb - Radius	29.21	11.20
		For Mountable Curb, Add	*1.87*	
		For Up To 20, Add	*17.05*	
		For >20 To 50, Add	*9.65*	
		For >50 To 100, Add	*3.70*	
		For >500 To 1,000, Deduct	*-3.70*	
		For >1,000, Deduct	*-6.28*	
32 16 13 13-0012	LF	12" x 24" Cast In Place Concrete Curb	34.11	11.20
		For Mountable Curb, Add	*1.60*	
		For Up To 20, Add	*18.03*	
		For >20 To 50, Add	*10.14*	
		For >50 To 100, Add	*3.95*	
		For >500 To 1,000, Deduct	*-3.95*	
		For >1,000, Deduct	*-6.77*	
32 16 13 13-0013	LF	12" x 24" Cast In Place Concrete Curb - Radius	37.97	12.55
		For Mountable Curb, Add	*1.80*	
		For Up To 20, Add	*20.15*	
		For >20 To 50, Add	*11.33*	
		For >50 To 100, Add	*4.41*	
		For >500 To 1,000, Deduct	*-4.41*	
		For >1,000, Deduct	*-7.56*	
32 16 13 13-0014	EA	Additional Finish For Handicap Drop Section In Curb	67.24	

32 16 13 13-0015 Cast In Place Concrete Curb And Gutter *(32 16 13 13)*

Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0016	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	24.02	10.88
		For Up To 20, Add	*16.32*	
		For >20 To 50, Add	*9.11*	
		For >50 To 100, Add	*3.60*	
		For >500 To 1,000, Deduct	*-3.11*	
		For >1,000, Deduct	*-5.26*	
		For Mountable Or Rolled Curb And Gutter, Add	*1.63*	
32 16 13 13-0017	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	26.20	14.51
		For Up To 20, Add	*17.81*	
		For >20 To 50, Add	*9.95*	
		For >50 To 100, Add	*3.93*	
		For >500 To 1,000, Deduct	*-3.40*	
		For >1,000, Deduct	*-5.75*	
		For Mountable Or Rolled Curb And Gutter, Add	*1.79*	
32 16 13 13-0018	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	30.53	12.06
		For Up To 20, Add	*20.72*	
		For >20 To 50, Add	*11.56*	
		For >50 To 100, Add	*4.58*	
		For >500 To 1,000, Deduct	*-3.93*	
		For >1,000, Deduct	*-6.66*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.05*	
32 16 13 13-0019	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	33.73	13.43
		For Up To 20, Add	*22.91*	
		For >20 To 50, Add	*12.80*	
		For >50 To 100, Add	*5.06*	
		For >500 To 1,000, Deduct	*-4.36*	
		For >1,000, Deduct	*-7.39*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.29*	
32 16 13 13-0020	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight (Type A3-6)	37.02	14.51
		For Up To 20, Add	*25.11*	
		For >20 To 50, Add	*14.01*	
		For >50 To 100, Add	*5.55*	
		For >500 To 1,000, Deduct	*-4.75*	
		For >1,000, Deduct	*-8.06*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.46*	
32 16 13 13-0021	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius (Type A3-6)	41.25	16.33
		For Up To 20, Add	*28.01*	
		For >20 To 50, Add	*15.64*	
		For >50 To 100, Add	*6.19*	
		For >500 To 1,000, Deduct	*-5.33*	
		For >1,000, Deduct	*-9.02*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.79*	
32 16 13 13-0022	LF	6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	43.99	17.23
		For Up To 20, Add	*29.84*	
		For >20 To 50, Add	*16.64*	
		For >50 To 100, Add	*6.60*	
		For >500 To 1,000, Deduct	*-5.65*	
		For >1,000, Deduct	*-9.57*	
		For Mountable Or Rolled Curb And Gutter, Add	*2.92*	
32 16 13 13-0023	LF	6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	48.34	19.05
		For Up To 20, Add	*32.81*	
		For >20 To 50, Add	*18.31*	
		For >50 To 100, Add	*7.25*	
		For >500 To 1,000, Deduct	*-6.23*	
		For >1,000, Deduct	*-10.55*	
		For Mountable Or Rolled Curb And Gutter, Add	*3.25*	
32 16 13 13-0024	LF	6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	50.95	19.95
		For Up To 20, Add	*34.56*	
		For >20 To 50, Add	*19.28*	
		For >50 To 100, Add	*7.64*	
		For >500 To 1,000, Deduct	*-6.54*	
		For >1,000, Deduct	*-11.08*	
		For Mountable Or Rolled Curb And Gutter, Add	*3.38*	
32 16 13 13-0025	LF	6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	55.43	21.77
		For Up To 20, Add	*37.61*	
		For >20 To 50, Add	*20.98*	
		For >50 To 100, Add	*8.31*	
		For >500 To 1,000, Deduct	*-7.13*	
		For >1,000, Deduct	*-12.07*	
		For Mountable Or Rolled Curb And Gutter, Add	*3.70*	
32 16 13 13-0026	LF	6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	57.90	22.67
		For Up To 20, Add	*39.28*	
		For >20 To 50, Add	*21.91*	
		For >50 To 100, Add	*8.69*	
		For >500 To 1,000, Deduct	*-7.43*	
		For >1,000, Deduct	*-12.59*	
		For Mountable Or Rolled Curb And Gutter, Add	*3.84*	
32 16 13 13-0027	LF	6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	64.32	25.40
		For Up To 20, Add	*43.67*	
		For >20 To 50, Add	*24.38*	
		For >50 To 100, Add	*9.65*	
		For >500 To 1,000, Deduct	*-8.30*	
		For >1,000, Deduct	*-14.05*	
		For Mountable Or Rolled Curb And Gutter, Add	*4.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 14		**Machine Formed, Slip Form Curbs** *(32 16 13)* Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0001		Curbs, Machine Formed, Slip Form *(32 16 13 14)* Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0002	EA	Machine Formed Concrete Curb Minimum Set-Up Charge (One Time Per Job) Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.	1,369.90	
32 16 13 14-0003	LF	6" x 12" Straight Concrete Curb, Machine Formed	11.50	
32 16 13 14-0004	LF	6" x 12" Curved Concrete Curb, Machine Formed	15.68	
32 16 13 14-0005	LF	6" x 18" Straight Concrete Curb, Machine Formed	15.19	
32 16 13 14-0006	LF	6" x 18" Curved Concrete Curb, Machine Formed	20.11	
32 16 13 16		**Steel Faced Curbs** *(32 16 13)* Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0001		Sidewalk/Curb Facing *(32 16 13 16)* Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0002	LF	3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	14.38	5.06
		For Curved Section, Add	*3.33*	
32 16 13 16-0003	LF	4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	15.88	5.75
		For Curved Section, Add	*3.75*	
32 16 13 16-0004	LF	6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	21.06	6.44
		For Curved Section, Add	*4.53*	
32 16 13 16-0005	LF	8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	25.63	7.24
		For Curved Section, Add	*5.26*	
32 16 13 16-0006	LF	10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	31.11	7.93
		For Curved Section, Add	*6.08*	
32 16 13 16-0007	LF	12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	40.61	10.12
		For Curved Section, Add	*7.84*	
32 16 13 16-0008	LF	13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	47.21	13.10
		For Curved Section, Add	*9.61*	
32 16 13 16-0009	EA	Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section	143.78	
32 16 13 19		**Cast-In-Place Concrete Drainage Ditches** *(32 16 13)* Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
32 16 13 19-0001		Valley Gutter, Cast In Place *(32 16 13 19)* Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0002	LF	2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	20.18	
		For Up To 20, Add	*9.33*	
		For >20 To 50, Add	*5.20*	
		For >50 To 100, Add	*2.07*	
		For >500 To 1,000, Deduct	*-2.07*	
		For >1,000, Deduct	*-3.61*	
32 16 13 19-0003	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	24.73	
		For Up To 20, Add	*11.32*	
		For >20 To 50, Add	*6.30*	
		For >50 To 100, Add	*2.51*	
		For >500 To 1,000, Deduct	*-2.51*	
		For >1,000, Deduct	*-4.38*	
32 16 13 19-0004	LF	3' Wide Cast In Place Concrete Valley Gutter, 6" Thick	29.25	
		For Up To 20, Add	*13.28*	
		For >20 To 50, Add	*7.38*	
		For >50 To 100, Add	*2.95*	
		For >500 To 1,000, Deduct	*-2.95*	
		For >1,000, Deduct	*-5.15*	
32 16 13 19-0005	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	33.73	
		For Up To 20, Add	*15.22*	
		For >20 To 50, Add	*8.46*	
		For >50 To 100, Add	*3.38*	
		For >500 To 1,000, Deduct	*-3.38*	
		For >1,000, Deduct	*-5.91*	
32 16 13 19-0006	LF	4' Wide Cast In Place Concrete Valley Gutter, 6" Thick	38.23	
		For Up To 20, Add	*17.17*	
		For >20 To 50, Add	*9.54*	
		For >50 To 100, Add	*3.82*	
		For >500 To 1,000, Deduct	*-3.82*	
		For >1,000, Deduct	*-6.68*	
32 16 13 19-0007	LF	5' Wide Cast In Place Concrete Valley Gutter, 6" Thick	45.41	
		For Up To 20, Add	*19.79*	
		For >20 To 50, Add	*10.97*	
		For >50 To 100, Add	*4.41*	
		For >500 To 1,000, Deduct	*-4.41*	
		For >1,000, Deduct	*-7.75*	
32 16 13 19-0008	LF	6' Wide Cast In Place Concrete Valley Gutter, 6" Thick	52.30	
		For Up To 20, Add	*22.22*	
		For >20 To 50, Add	*12.29*	
		For >50 To 100, Add	*4.97*	
		For >500 To 1,000, Deduct	*-4.97*	
		For >1,000, Deduct	*-8.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0009	SF	>6' Wide Cast In Place Concrete Valley Gutter, 6" Thick	8.72	
		For Up To 100, Add	*3.70*	
		For >100 To 250, Add	*2.05*	
		For >250 To 500, Add	*0.83*	
		For >2,500 To 5,000, Deduct	*-0.83*	
		For >5,000, Deduct	*-1.46*	
32 16 13 19-0010	LF	2' Wide Cast In Place Concrete Valley Gutter, 7" Thick	22.19	
		For Up To 20, Add	*10.01*	
		For >20 To 50, Add	*5.56*	
		For >50 To 100, Add	*2.22*	
		For >500 To 1,000, Deduct	*-2.22*	
		For >1,000, Deduct	*-3.89*	
32 16 13 19-0011	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick	27.40	
		For Up To 20, Add	*12.28*	
		For >20 To 50, Add	*6.82*	
		For >50 To 100, Add	*2.73*	
		For >500 To 1,000, Deduct	*-2.73*	
		For >1,000, Deduct	*-4.78*	
32 16 13 19-0012	LF	3' Wide Cast In Place Concrete Valley Gutter, 7" Thick	32.23	
		For Up To 20, Add	*14.28*	
		For >20 To 50, Add	*7.92*	
		For >50 To 100, Add	*3.18*	
		For >500 To 1,000, Deduct	*-3.18*	
		For >1,000, Deduct	*-5.57*	
32 16 13 19-0013	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick	37.21	
		For Up To 20, Add	*16.39*	
		For >20 To 50, Add	*9.09*	
		For >50 To 100, Add	*3.65*	
		For >500 To 1,000, Deduct	*-3.65*	
		For >1,000, Deduct	*-6.40*	
32 16 13 19-0014	LF	4' Wide Cast In Place Concrete Valley Gutter, 7" Thick	42.17	
		For Up To 20, Add	*18.48*	
		For >20 To 50, Add	*10.24*	
		For >50 To 100, Add	*4.12*	
		For >500 To 1,000, Deduct	*-4.12*	
		For >1,000, Deduct	*-7.23*	
32 16 13 19-0015	LF	5' Wide Cast In Place Concrete Valley Gutter, 7" Thick	50.20	
		For Up To 20, Add	*21.34*	
		For >20 To 50, Add	*11.80*	
		For >50 To 100, Add	*4.77*	
		For >500 To 1,000, Deduct	*-4.77*	
		For >1,000, Deduct	*-8.41*	
32 16 13 19-0016	LF	6' Wide Cast In Place Concrete Valley Gutter, 7" Thick	57.95	
		For Up To 20, Add	*24.01*	
		For >20 To 50, Add	*13.24*	
		For >50 To 100, Add	*5.38*	
		For >500 To 1,000, Deduct	*-5.38*	
		For >1,000, Deduct	*-9.52*	
32 16 13 19-0017	SF	>6' Wide Cast In Place Concrete Valley Gutter, 7" Thick	9.66	
		For Up To 100, Add	*4.00*	
		For >100 To 250, Add	*2.21*	
		For >250 To 500, Add	*0.90*	
		For >2,500 To 5,000, Deduct	*-0.90*	
		For >5,000, Deduct	*-1.59*	
32 16 13 19-0018	LF	2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	22.33	
		For Up To 20, Add	*10.33*	
		For >20 To 50, Add	*5.75*	
		For >50 To 100, Add	*2.29*	
		For >500 To 1,000, Deduct	*-2.29*	
		For >1,000, Deduct	*-3.99*	
32 16 13 19-0019	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	27.40	
		For Up To 20, Add	*12.56*	
		For >20 To 50, Add	*6.99*	
		For >50 To 100, Add	*2.79*	
		For >500 To 1,000, Deduct	*-2.79*	
		For >1,000, Deduct	*-4.86*	
32 16 13 19-0020	LF	3' Wide Cast In Place Concrete Valley Gutter, 8" Thick	32.38	
		For Up To 20, Add	*14.72*	
		For >20 To 50, Add	*8.18*	
		For >50 To 100, Add	*3.27*	
		For >500 To 1,000, Deduct	*-3.27*	
		For >1,000, Deduct	*-5.71*	
32 16 13 19-0021	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick	37.37	
		For Up To 20, Add	*16.88*	
		For >20 To 50, Add	*9.38*	
		For >50 To 100, Add	*3.75*	
		For >500 To 1,000, Deduct	*-3.75*	
		For >1,000, Deduct	*-6.56*	
32 16 13 19-0022	LF	4' Wide Cast In Place Concrete Valley Gutter, 8" Thick	42.36	
		For Up To 20, Add	*19.05*	
		For >20 To 50, Add	*10.58*	
		For >50 To 100, Add	*4.23*	
		For >500 To 1,000, Deduct	*-4.23*	
		For >1,000, Deduct	*-7.41*	
32 16 13 19-0023	LF	5' Wide Cast In Place Concrete Valley Gutter, 8" Thick	50.30	
32 16 13 19-0024	LF	6' Wide Cast In Place Concrete Valley Gutter, 8" Thick	57.94	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0025	SF	>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick	9.66	
		For Up To 100, Add	*4.11*	
		For >100 To 250, Add	*2.27*	
		For >250 To 500, Add	*0.92*	
		For >2,500 To 5,000, Deduct	*-0.92*	
		For >5,000, Deduct	*-1.62*	

32 16 13 23 Precast Concrete Curbs and Gutters *(32 16 13)*

32 16 13 23-0001 Precast Concrete Curb *(32 16 13 23)*

32 16 13 23-0002	LF	6" x 18" Precast Concrete Curb	39.31	9.45
32 16 13 23-0003	LF	6" x 18" Precast Concrete Curb, Radius	46.86	10.86
32 16 13 23-0004	LF	6" x 20" Precast Concrete Curb	41.64	9.45
32 16 13 23-0005	LF	6" x 20" Precast Concrete Curb, Radius	49.94	10.86
32 16 13 23-0006	LF	7" x 18" Precast Concrete Curb	42.71	9.45
32 16 13 23-0007	LF	7" x 18" Precast Concrete Curb, Radius	51.18	10.86
32 16 13 23-0008	LF	7" x 20" Precast Concrete Curb	45.35	9.45
32 16 13 23-0009	LF	7" x 20" Precast Concrete Curb, Radius	54.53	10.86

32 16 13 33 Asphalt Curbs *(32 16 13)*

32 16 13 33-0001 Asphalt Curbs *(32 16 13 33)*

32 16 13 33-0002	LF	6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain	12.82	5.17
32 16 13 33-0003	LF	8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain	14.45	5.75
32 16 13 33-0004	LF	8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain	15.94	6.32

32 16 13 43 Stone Curbs *(32 16 13)*

32 16 13 43-0001 Remove And Reset Stone And Precast Curbing *(32 16 13 43)*

Note: Includes storage and cleaning.

32 16 13 43-0002 LF Removal And Reseting Of Stone Or Precast Curbing 31.29
Note: Includes storage and cleaning.

32 16 23 Sidewalks *(32 16)*

32 16 23 00-0001 Cast In Place Concrete Sidewalk *(32 16 23)*

Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 03 31 13 00-0081 for buggies, 03 31 13 00-0088 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 32 11 23 16-0001 for base course.

32 16 23 00-0002	SF	4" Cast In Place Concrete Sidewalk	8.49
		For Up To 100, Add	*3.61*
		For >100 To 500, Add	*1.02*
		For >1,000 To 5,000, Deduct	*-0.60*
		For >5,000, Deduct	*-1.32*
		For Welded Wire Reinforcement, Add	*0.74*
32 16 23 00-0003	SF	5" Cast In Place Concrete Sidewalk	9.22
		For Up To 100, Add	*3.85*
		For >100 To 500, Add	*1.08*
		For >1,000 To 5,000, Deduct	*-0.62*
		For >5,000, Deduct	*-1.39*
		For Welded Wire Reinforcement, Add	*0.74*
32 16 23 00-0004	SF	6" Cast In Place Concrete Sidewalk	9.95
		For Up To 100, Add	*4.09*
		For >100 To 500, Add	*1.14*
		For >1,000 To 5,000, Deduct	*-0.64*
		For >5,000, Deduct	*-1.46*
		For Welded Wire Reinforcement, Add	*0.74*
32 16 23 00-0005	SF	7" Cast In Place Concrete Sidewalk	11.68
		For Up To 100, Add	*4.73*
		For >100 To 500, Add	*1.31*
		For >1,000 To 5,000, Deduct	*-0.73*
		For >5,000, Deduct	*-1.67*
		For Welded Wire Reinforcement, Add	*0.74*
32 16 23 00-0006	SF	8" Cast In Place Concrete Sidewalk	12.32
		For Up To 100, Add	*4.93*
		For >100 To 500, Add	*1.35*
		For >1,000 To 5,000, Deduct	*-0.74*
		For >5,000, Deduct	*-1.72*
		For Welded Wire Reinforcement, Add	*0.74*
32 16 23 00-0007	SF	For Exposed Aggregate Finish In Sidewalk	2.12
32 16 23 00-0008	EA	Finish Concrete Handicap Drop Section In Sidewalk	127.27

Note: Excludes patterned (tactile) finish.

32 16 23 00-0009 Bituminous Sidewalk *(32 16 23)*

Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 32 11 23 16-0001 for base course.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0010	SY	1" Bituminous Sidewalk	9.47	
		For Up To 100, Add	*3.48*	
		For >100 To 500, Add	*0.92*	
		For >1,000 To 5,000, Deduct	*-0.44*	
		For >5,000, Deduct	*-0.92*	
32 16 23 00-0011	SY	1-1/2" Bituminous Sidewalk	11.92	
		For Up To 100, Add	*4.31*	
		For >100 To 500, Add	*1.13*	
		For >1,000 To 5,000, Deduct	*-0.53*	
		For >5,000, Deduct	*-1.13*	
32 16 23 00-0012	SY	2" Bituminous Sidewalk	16.64	
		For Up To 100, Add	*5.81*	
		For >100 To 500, Add	*1.49*	
		For >1,000 To 5,000, Deduct	*-0.66*	
		For >5,000, Deduct	*-1.49*	
32 16 23 00-0013	SY	2-1/2" Bituminous Sidewalk	20.82	
		For Up To 100, Add	*7.25*	
		For >100 To 500, Add	*1.86*	
		For >1,000 To 5,000, Deduct	*-0.82*	
		For >5,000, Deduct	*-1.86*	
32 16 23 00-0014	SY	3" Bituminous Sidewalk	24.03	
		For Up To 100, Add	*8.22*	
		For >100 To 500, Add	*2.09*	
		For >1,000 To 5,000, Deduct	*-0.88*	
		For >5,000, Deduct	*-2.09*	
32 16 23 00-0015	SY	3-1/2" Bituminous Sidewalk	27.83	
		For Up To 100, Add	*9.39*	
		For >100 To 500, Add	*2.36*	
		For >1,000 To 5,000, Deduct	*-0.97*	
		For >5,000, Deduct	*-2.36*	

32 16 43 Asphalt Dike *(32 16)*

32 16 43 00-0001 Asphalt Dike *(32 16 43)*

32 16 43 00-0002	LF	Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	6.98	
32 16 43 00-0003	LF	Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height	9.60	
32 16 43 00-0004	LF	Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height	9.60	
32 16 43 00-0005	LF	Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height	13.79	
32 16 43 00-0006	LF	Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height	16.35	
32 16 43 00-0007	LF	Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height	3.60	
32 16 43 00-0008	LF	Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.98	
32 16 43 00-0009	LF	Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	15.42	
32 16 43 00-0010	LF	CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	6.98	
32 16 43 00-0011	LF	CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height	3.60	
32 16 43 00-0012	LF	CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	15.42	
32 16 43 00-0013	LF	CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.98	
32 16 43 00-0014	LF	CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height	5.30	

32 17 Paving Specialties *(32 10)*

32 17 13 Parking Bumpers *(32 17)*

Note: Includes dowels set.

32 17 13 16 Plastic Parking Bumpers *(32 17 13)*

32 17 13 16-0001	EA	4" x 6" x 4' Recycled Plastic Wheel Stop	90.91	6.82
32 17 13 16-0002	EA	4" x 6" x 6' Recycled Plastic Wheel Stop	102.06	6.82

32 17 13 19 Precast Concrete Parking Bumpers *(32 17 13)*

32 17 13 19-0001	EA	6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	42.68	20.54
32 17 13 19-0002	EA	6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	49.09	20.54
32 17 13 19-0003	EA	6" x 8" x 6' Precast Concrete Wheel Stop With Dowels	49.93	20.54
32 17 13 19-0004	EA	6" x 10" x 6' Precast Concrete Wheel Stop With Dowels	51.65	20.54
32 17 13 19-0005	EA	8" x 4-1/2" x 6' Precast Concrete Wheel Stop With Dowels	49.09	20.54
32 17 13 19-0006	EA	8" x 13" x 6' Precast Concrete Wheel Stop With Dowels	58.58	20.54
32 17 13 19-0007	EA	Removal And Relocation Of Precast Concrete Wheel Stop	32.87	
32 17 13 19-0008	EA	Removal And Relocation Of Plastic Or Wood Wheel Stop	21.37	

32 17 13 23 Rubber Parking Bumpers *(32 17 13)*

32 17 13 23-0001	EA	3' Recycled Rubber Wheel Stop	26.99	6.82
32 17 13 23-0002	EA	4' Recycled Rubber Wheel Stop	31.13	6.82
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop	32.79	6.82
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop	35.27	6.82

32 17 13 26 Wood Parking Bumpers *(32 17 13)*

32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	12.91	1.64
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated	18.90	1.64

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 17 16 Manufactured Traffic-Calming Devices *(32 17)*

32 17 16 00-0001 Modular Rubber Speed Tables *(32 17 16)*

Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.

32 17 16 00-0002	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	46.34	
32 17 16 00-0003	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	40.47	
32 17 16 00-0004	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	37.93	
32 17 16 00-0005	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	44.33	
32 17 16 00-0006	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	38.93	
32 17 16 00-0007	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	36.68	
32 17 16 00-0008	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	42.30	
32 17 16 00-0009	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	37.73	
32 17 16 00-0010	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	35.63	

32 17 16 00-0011 Asphalt Speed Table *(32 17 16)*

Note: Excludes pavement markings or reflectors.

32 17 16 00-0012	LF	Up to 36" Wide Asphalt Speed Table With 3" Center Crown Note: Tapered on edges to roadway.	34.94	
32 17 16 00-0013	LF	>36" To 48" Wide Asphalt Speed Table With 3" Center Crown Note: Tapered on edges to roadway.	41.27	
32 17 16 00-0014	LF	Up to 36" Wide Asphalt Speed Table With 4" Center Crown Note: Tapered on edges to roadway.	43.93	
32 17 16 00-0015	LF	>36" To 48" Wide Asphalt Speed Table With 4" Center Crown Note: Tapered on edges to roadway.	51.94	
32 17 16 00-0016	LF	Up to 36" Wide Asphalt Speed Table With 6" Center Crown Note: Tapered on edges to roadway.	53.51	
32 17 16 00-0017	LF	>36" To 48" Wide Asphalt Speed Table With 6" Center Crown Note: Tapered on edges to roadway.	59.84	

32 17 16 00-0018 Speed Bumps *(32 17 16)*

Note: Excludes pavement markings or reflectors.

32 17 16 00-0019	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	37.03	1.67
32 17 16 00-0020	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump	25.34	1.11
32 17 16 00-0021	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump	57.74	1.11

32 17 23 Pavement Markings *(32 17)*

32 17 23 13 Painted Pavement Markings *(32 17 23)*

32 17 23 13-0001 Pavement Striping, Letters, Symbols And Markers For Roads *(32 17 23 13)*

Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.

32 17 23 13-0002 Epoxy Reflective Pavement Marking *(32 17 23 13-0001)*

Note: 15 mil thickness.

32 17 23 13-0003	LF	Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping	0.44	
		For 20 Mil Thickness, Add	*0.09*	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.07*	
		For Broken Line, Deduct	*-0.19*	
32 17 23 13-0004	LF	Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping	0.60	
		For 20 Mil Thickness, Add	*0.13*	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
		For Broken Line, Deduct	*-0.28*	
32 17 23 13-0005	LF	Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping	0.75	
		For 20 Mil Thickness, Add	*0.16*	
		For Up To 5,000 LF, Add	*0.15*	
		For >25,000 LF, Deduct	*-0.11*	
		For Broken Line, Deduct	*-0.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0006	LF	Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping	1.12	
		For 20 Mil Thickness, Add	*0.26*	
		For Up To 5,000 LF, Add	*0.22*	
		For >25,000 LF, Deduct	*-0.17*	
		For Broken Line, Deduct	*-0.55*	
32 17 23 13-0007	LF	Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping	0.68	
		For 20 Mil Thickness, Add	*0.17*	
		For Up To 5,000 LF, Add	*0.14*	
		For >25,000 LF, Deduct	*-0.10*	
		For Broken Line On One Side, Deduct	*-0.18*	
		For Double Broken Line, Deduct	*-0.37*	
32 17 23 13-0008	LF	Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping	0.96	
		For 20 Mil Thickness, Add	*0.25*	
		For Up To 5,000 LF, Add	*0.19*	
		For >25,000 LF, Deduct	*-0.14*	
		For Broken Line On One Side, Deduct	*-0.27*	
		For Double Broken Line, Deduct	*-0.55*	
32 17 23 13-0009	EA	6" High, Letter/Number, Epoxy Reflective Pavement Marking	3.32	
		For 20 Mil Thickness, Add	*0.31*	
		For <10, Add	*0.42*	
		For >50 To 100, Deduct	*-0.21*	
		For >100 To 200, Deduct	*-0.28*	
		For >200, Deduct	*-0.56*	
32 17 23 13-0010	EA	12" High, Letter/Number, Epoxy Reflective Pavement Marking	6.14	
		For 20 Mil Thickness, Add	*0.84*	
		For <10, Add	*0.64*	
		For >50 To 100, Deduct	*-0.32*	
		For >100 To 200, Deduct	*-0.43*	
		For >200, Deduct	*-0.85*	
32 17 23 13-0011	EA	24" High, Letter/Number, Epoxy Reflective Pavement Marking	10.36	
		For 20 Mil Thickness, Add	*1.46*	
		For <10, Add	*1.06*	
		For >50 To 100, Deduct	*-0.53*	
		For >100 To 200, Deduct	*-0.71*	
		For >200, Deduct	*-1.41*	
32 17 23 13-0012	EA	36" High, Letter/Number, Epoxy Reflective Pavement Marking	19.90	
		For 20 Mil Thickness, Add	*2.64*	
		For <10, Add	*2.11*	
		For >50 To 100, Deduct	*-1.06*	
		For >100 To 200, Deduct	*-1.41*	
		For >200, Deduct	*-2.82*	
32 17 23 13-0013	EA	48" High, Letter/Number, Epoxy Reflective Pavement Marking	23.37	
		For 20 Mil Thickness, Add	*3.31*	
		For <10, Add	*2.37*	
		For >50 To 100, Deduct	*-1.19*	
		For >100 To 200, Deduct	*-1.58*	
		For >200, Deduct	*-3.16*	
32 17 23 13-0014	EA	72" High, Letter/Number, Epoxy Reflective Pavement Marking	41.94	
		For 20 Mil Thickness, Add	*6.01*	
		For <10, Add	*4.22*	
		For >50 To 100, Deduct	*-2.11*	
		For >100 To 200, Deduct	*-2.81*	
		For >200, Deduct	*-5.63*	
32 17 23 13-0015	EA	96" High, Letter/Number, Epoxy Reflective Pavement Marking	55.94	
		For 20 Mil Thickness, Add	*7.94*	
		For <10, Add	*5.67*	
		For >50 To 100, Deduct	*-2.83*	
		For >100 To 200, Deduct	*-3.78*	
		For >200, Deduct	*-7.55*	
32 17 23 13-0016	EA	120" High, Letter/Number, Epoxy Reflective Pavement Marking	87.35	
		For 20 Mil Thickness, Add	*15.86*	
		For <10, Add	*7.02*	
		For >50 To 100, Deduct	*-3.51*	
		For >100 To 200, Deduct	*-4.68*	
		For >200, Deduct	*-9.36*	
32 17 23 13-0017	SF	Letter/Number, Epoxy Reflective Pavement Marking	5.56	
		For 20 Mil Thickness, Add	*0.65*	
32 17 23 13-0018	SF	Symbols, Epoxy Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc.	6.99	
		For 20 Mil Thickness, Add	*0.72*	

32 17 23 13-0019 Painted Reflective Pavement Marking *(32 17 23 13-0001)*

Note: 15 mil thickness.

32 17 23 13-0020	LF	Single 4" Wide Solid Line, Painted Reflective Pavement Striping	0.25	
		For Up To 5,000 LF, Add	*0.05*	
		For >25,000 LF, Deduct	*-0.04*	
		For Broken Line, Deduct	*-0.05*	
32 17 23 13-0021	LF	Single 6" Wide Solid Line, Painted Reflective Pavement Striping	0.33	
		For Up To 5,000 LF, Add	*0.07*	
		For >25,000 LF, Deduct	*-0.05*	
		For Broken Line, Deduct	*-0.08*	
32 17 23 13-0022	LF	Single 8" Wide Solid Line, Painted Reflective Pavement Striping	0.42	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
		For Broken Line, Deduct	*-0.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0023	LF	Single 12" Wide Solid Line, Painted Reflective Pavement Striping	0.57	
		For Up To 5,000 LF, Add	*0.11*	
		For >25,000 LF, Deduct	*-0.09*	
		For Broken Line, Deduct	*-0.14*	
32 17 23 13-0024	LF	Double 4" Wide Solid Lines, Painted Reflective Pavement Striping	0.38	
		For Up To 5,000 LF, Add	*0.08*	
		For >25,000 LF, Deduct	*-0.06*	
		For Broken Line On One Side, Deduct	*-0.05*	
		For Double Broken Line, Deduct	*-0.09*	
32 17 23 13-0025	LF	Double 6" Wide Solid Lines, Painted Reflective Pavement Striping	0.57	
		For Up To 5,000 LF, Add	*0.11*	
		For >25,000 LF, Deduct	*-0.09*	
		For Broken Line On One Side, Deduct	*-0.07*	
		For Double Broken Line, Deduct	*-0.14*	
32 17 23 13-0026	SF	Solid Area, Painted Reflective Pavement Striping	4.28	
		Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0027	EA	6" High, Letter/Number, Painted Reflective Pavement Marking	3.10	
		For <10, Add	*0.42*	
		For >50 To 100, Deduct	*-0.21*	
		For >100 To 200, Deduct	*-0.28*	
		For >200, Deduct	*-0.56*	
32 17 23 13-0028	EA	12" High, Letter/Number, Painted Reflective Pavement Marking	5.35	
		For <10, Add	*0.64*	
		For >50 To 100, Deduct	*-0.32*	
		For >100 To 200, Deduct	*-0.43*	
		For >200, Deduct	*-0.85*	
32 17 23 13-0029	EA	24" High, Letter/Number, Painted Reflective Pavement Marking	8.97	
		For <10, Add	*1.06*	
		For >50 To 100, Deduct	*-0.53*	
		For >100 To 200, Deduct	*-0.71*	
		For >200, Deduct	*-1.41*	
32 17 23 13-0030	EA	36" High, Letter/Number, Painted Reflective Pavement Marking	17.46	
		For <10, Add	*2.11*	
		For >50 To 100, Deduct	*-1.06*	
		For >100 To 200, Deduct	*-1.41*	
		For >200, Deduct	*-2.82*	
32 17 23 13-0031	EA	48" High, Letter/Number, Painted Reflective Pavement Marking	20.19	
		For <10, Add	*2.37*	
		For >50 To 100, Deduct	*-1.19*	
		For >100 To 200, Deduct	*-1.58*	
		For >200, Deduct	*-3.16*	
32 17 23 13-0032	EA	72" High, Letter/Number, Painted Reflective Pavement Marking	36.14	
		For <10, Add	*4.22*	
		For >50 To 100, Deduct	*-2.11*	
		For >100 To 200, Deduct	*-2.81*	
		For >200, Deduct	*-5.63*	
32 17 23 13-0033	EA	96" High, Letter/Number, Painted Reflective Pavement Marking	48.31	
		For <10, Add	*5.67*	
		For >50 To 100, Deduct	*-2.83*	
		For >100 To 200, Deduct	*-3.78*	
		For >200, Deduct	*-7.55*	
32 17 23 13-0034	EA	120" High, Letter/Number, Painted Reflective Pavement Marking	70.32	
		For <10, Add	*7.02*	
		For >50 To 100, Deduct	*-3.51*	
		For >100 To 200, Deduct	*-4.68*	
		For >200, Deduct	*-9.36*	
32 17 23 13-0035	SF	Letter/Number, Painted Reflective Pavement Marking	5.01	
		Note: Includes solvent based and latex paints.		
32 17 23 13-0036	SF	Symbols, Painted Reflective Pavement Marking	5.96	
		Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		

32 17 23 13-0037 Pavement Marking (CALTRANS) *(32 17 23 13-0001)*

Note: Per LF of detail.

32 17 23 13-0038	LF	CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.21	
		For Up To 5,000 LF, Add	*0.04*	
		For >25,000 LF, Deduct	*-0.03*	
32 17 23 13-0039	LF	CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.32	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0040	LF	CALTRANS Detail 4 Centerline	0.60	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0041	LF	CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.21	
		For Up To 5,000 LF, Add	*0.04*	
		For >25,000 LF, Deduct	*-0.03*	
32 17 23 13-0042	LF	CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.33	
		For Up To 5,000 LF, Add	*0.07*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0043	LF	CALTRANS Detail 7 Centerline	0.43	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0044	LF	CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.21	
		For Up To 5,000 LF, Add	*0.04*	
		For >25,000 LF, Deduct	*-0.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0045	LF	CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.32	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0046	LF	CALTRANS Detail 10 Lanelines	0.60	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0047	LF	CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.21	
		For Up To 5,000 LF, Add	*0.04*	
		For >25,000 LF, Deduct	*-0.03*	
32 17 23 13-0048	LF	CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.32	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0049	LF	CALTRANS Detail 13 Lanelines	0.43	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0050	LF	CALTRANS Detail 14 Lanelines	0.43	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0051	LF	CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping	0.32	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0052	LF	CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.28	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.04*	
		For Broken Line On One Side, Deduct	*-0.03*	
		For Double Broken Line, Deduct	*-0.07*	
32 17 23 13-0053	LF	CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.67	
		For Up To 5,000 LF, Add	*0.13*	
		For >25,000 LF, Deduct	*-0.10*	
32 17 23 13-0054	LF	CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	1.73	
		For Up To 5,000 LF, Add	*0.35*	
		For >25,000 LF, Deduct	*-0.26*	
32 17 23 13-0055	LF	CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.28	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.04*	
		For Broken Line On One Side, Deduct	*-0.03*	
		For Double Broken Line, Deduct	*-0.07*	
32 17 23 13-0056	LF	CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.58	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0057	LF	CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	1.47	
		For Up To 5,000 LF, Add	*0.29*	
		For >25,000 LF, Deduct	*-0.22*	
32 17 23 13-0058	LF	CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.33	
		For Up To 5,000 LF, Add	*0.07*	
		For >25,000 LF, Deduct	*-0.05*	
		For Broken Line On One Side, Deduct	*-0.05*	
		For Double Broken Line, Deduct	*-0.11*	
32 17 23 13-0059	LF	CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.72	
		For Up To 5,000 LF, Add	*0.14*	
		For >25,000 LF, Deduct	*-0.11*	
32 17 23 13-0060	LF	CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	2.07	
		For Up To 5,000 LF, Add	*0.41*	
		For >25,000 LF, Deduct	*-0.31*	
32 17 23 13-0061	LF	CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.26	
		For Up To 5,000 LF, Add	*0.05*	
		For >25,000 LF, Deduct	*-0.04*	
32 17 23 13-0062	LF	CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.37	
		For Up To 5,000 LF, Add	*0.07*	
		For >25,000 LF, Deduct	*-0.06*	
32 17 23 13-0063	LF	CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.46	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.07*	
32 17 23 13-0064	LF	CALTRANS Detail 26 Left Edgelines	0.10	
		For Up To 5,000 LF, Add	*0.02*	
		For >25,000 LF, Deduct	*-0.02*	
32 17 23 13-0065	LF	CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.44	
		For Up To 5,000 LF, Add	*0.09*	
		For >25,000 LF, Deduct	*-0.07*	
32 17 23 13-0066	LF	CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.26	
		For Up To 5,000 LF, Add	*0.05*	
		For >25,000 LF, Deduct	*-0.04*	
32 17 23 13-0067	LF	CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping	0.20	
		For Up To 5,000 LF, Add	*0.04*	
		For >25,000 LF, Deduct	*-0.03*	
32 17 23 13-0068	LF	CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping	0.68	
		For Up To 5,000 LF, Add	*0.14*	
		For >25,000 LF, Deduct	*-0.10*	
		For Broken Line On One Side, Deduct	*-0.11*	
		For Double Broken Line, Deduct	*-0.22*	
32 17 23 13-0069	LF	CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping	1.06	
		For Up To 5,000 LF, Add	*0.21*	
		For >25,000 LF, Deduct	*-0.16*	
32 17 23 13-0070	LF	CALTRANS Detail 30 Median Islands	4.15	
		For Up To 5,000 LF, Add	*0.83*	
		For >25,000 LF, Deduct	*-0.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0071	LF	CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.57	
		For Up To 5,000 LF, Add	*0.11*	
		For >25,000 LF, Deduct	*-0.09*	
		For Broken Line On One Side, Deduct	*-0.07*	
		For Double Broken Line, Deduct	*-0.14*	
32 17 23 13-0072	LF	CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	1.05	
		For Up To 5,000 LF, Add	*0.21*	
		For >25,000 LF, Deduct	*-0.16*	
32 17 23 13-0073	LF	CALTRANS Detail 33 Two-Way Left Turn Lanes	2.85	
		For Up To 5,000 LF, Add	*0.57*	
		For >25,000 LF, Deduct	*-0.43*	
32 17 23 13-0074	LF	CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	0.58	
		For Up To 5,000 LF, Add	*0.12*	
		For >25,000 LF, Deduct	*-0.09*	
32 17 23 13-0075	LF	CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping	0.28	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.04*	
32 17 23 13-0076	LF	CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	0.68	
		For Up To 5,000 LF, Add	*0.14*	
		For >25,000 LF, Deduct	*-0.10*	
32 17 23 13-0077	LF	CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping	0.28	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.04*	
32 17 23 13-0078	LF	CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	1.23	
		For Up To 5,000 LF, Add	*0.25*	
		For >25,000 LF, Deduct	*-0.18*	
32 17 23 13-0079	LF	CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping	0.81	
		For Up To 5,000 LF, Add	*0.16*	
		For >25,000 LF, Deduct	*-0.12*	
32 17 23 13-0080	LF	CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	0.87	
		For Up To 5,000 LF, Add	*0.17*	
		For >25,000 LF, Deduct	*-0.13*	
32 17 23 13-0081	LF	CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	0.76	
		For Up To 5,000 LF, Add	*0.15*	
		For >25,000 LF, Deduct	*-0.11*	
32 17 23 13-0082	LF	CALTRANS Detail 37A Lane Drop At Exit Ramps	1.39	
		For Up To 5,000 LF, Add	*0.28*	
		For >25,000 LF, Deduct	*-0.21*	
32 17 23 13-0083	LF	CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	0.76	
		For Up To 5,000 LF, Add	*0.15*	
		For >25,000 LF, Deduct	*-0.11*	
32 17 23 13-0084	LF	CALTRANS Detail 37C Lane Drop At Intersections	1.39	
		For Up To 5,000 LF, Add	*0.28*	
		For >25,000 LF, Deduct	*-0.21*	
32 17 23 13-0085	LF	CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	0.73	
		For Up To 5,000 LF, Add	*0.15*	
		For >25,000 LF, Deduct	*-0.11*	
32 17 23 13-0086	LF	CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping	0.54	
		For Up To 5,000 LF, Add	*0.11*	
		For >25,000 LF, Deduct	*-0.08*	
32 17 23 13-0087	LF	CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping	0.93	
		For Up To 5,000 LF, Add	*0.19*	
		For >25,000 LF, Deduct	*-0.14*	
32 17 23 13-0088	LF	CALTRANS Detail 38C Channelizing Line	2.07	
		For Up To 5,000 LF, Add	*0.41*	
		For >25,000 LF, Deduct	*-0.31*	
32 17 23 13-0089	LF	CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.32	
		For Up To 5,000 LF, Add	*0.06*	
		For >25,000 LF, Deduct	*-0.05*	
32 17 23 13-0090	LF	CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.26	
		For Up To 5,000 LF, Add	*0.05*	
		For >25,000 LF, Deduct	*-0.04*	
32 17 23 13-0091	LF	CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.20	
		For Up To 5,000 LF, Add	*0.04*	
		For >25,000 LF, Deduct	*-0.03*	
32 17 23 13-0092	LF	CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.02	
		For Up To 5,000 LF, Add	*0.20*	
		For >25,000 LF, Deduct	*-0.15*	
32 17 23 13-0093	LF	CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.20	
		For Up To 5,000 LF, Add	*0.04*	
		For >25,000 LF, Deduct	*-0.03*	
32 17 23 13-0094	LF	CALTRANS Detail 41A Center Line Extensions Through Intersections	1.02	
		For Up To 5,000 LF, Add	*0.20*	
		For >25,000 LF, Deduct	*-0.15*	
32 17 23 13-0095	EA	CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	79.50	
		For <10, Add	*10.26*	
		For >50 To 100, Deduct	*-5.13*	
		For >100 To 200, Deduct	*-6.84*	
		For >200, Deduct	*-13.68*	
32 17 23 13-0096	EA	CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	139.52	
		For <10, Add	*17.96*	
		For >50 To 100, Deduct	*-8.98*	
		For >100 To 200, Deduct	*-11.97*	
		For >200, Deduct	*-23.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0097	EA	CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	175.07	
		For <10, Add	*22.58*	
		For >50 To 100, Deduct	*-11.29*	
		For >100 To 200, Deduct	*-15.05*	
		For >200, Deduct	*-30.11*	
32 17 23 13-0098	EA	CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	254.56	
		For <10, Add	*32.84*	
		For >50 To 100, Deduct	*-16.42*	
		For >100 To 200, Deduct	*-21.90*	
		For >200, Deduct	*-43.79*	
32 17 23 13-0099	EA	CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	334.07	
		For <10, Add	*43.11*	
		For >50 To 100, Deduct	*-21.55*	
		For >100 To 200, Deduct	*-28.74*	
		For >200, Deduct	*-57.48*	
32 17 23 13-0100	EA	CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking	235.08	
		For <10, Add	*30.28*	
		For >50 To 100, Deduct	*-15.14*	
		For >100 To 200, Deduct	*-20.19*	
		For >200, Deduct	*-40.37*	
32 17 23 13-0101	EA	CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	410.15	
		For <10, Add	*52.86*	
		For >50 To 100, Deduct	*-26.43*	
		For >100 To 200, Deduct	*-35.24*	
		For >200, Deduct	*-70.48*	
32 17 23 13-0102	EA	CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	83.72	
		For <10, Add	*10.78*	
		For >50 To 100, Deduct	*-5.39*	
		For >100 To 200, Deduct	*-7.19*	
		For >200, Deduct	*-14.37*	
32 17 23 13-0103	EA	CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking	183.49	
		For <10, Add	*23.61*	
		For >50 To 100, Deduct	*-11.80*	
		For >100 To 200, Deduct	*-15.74*	
		For >200, Deduct	*-31.48*	
32 17 23 13-0104	EA	CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking	235.08	
		For <10, Add	*30.28*	
		For >50 To 100, Deduct	*-15.14*	
		For >100 To 200, Deduct	*-20.19*	
		For >200, Deduct	*-40.37*	
32 17 23 13-0105	EA	CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking	151.53	
		For <10, Add	*19.50*	
		For >50 To 100, Deduct	*-9.75*	
		For >100 To 200, Deduct	*-13.00*	
		For >200, Deduct	*-26.00*	
32 17 23 13-0106	EA	CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking	199.55	
		For <10, Add	*25.66*	
		For >50 To 100, Deduct	*-12.83*	
		For >100 To 200, Deduct	*-17.11*	
		For >200, Deduct	*-34.21*	
32 17 23 13-0107	EA	CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	39.76	
		For <10, Add	*5.13*	
		For >50 To 100, Deduct	*-2.57*	
		For >100 To 200, Deduct	*-3.42*	
		For >200, Deduct	*-6.84*	
32 17 23 13-0108	EA	CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking Note: Excludes variable width transverse lines.	380.41	
		For <10, Add	*48.75*	
		For >50 To 100, Deduct	*-24.38*	
		For >100 To 200, Deduct	*-32.50*	
		For >200, Deduct	*-65.01*	
32 17 23 13-0109	SF	CALTRANS Solid Area, Painted Reflective Pavement Marking	4.97	
32 17 23 13-0110	EA	CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	37.66	
		For <10, Add	*3.69*	
		For >50 To 100, Deduct	*-1.85*	
		For >100 To 200, Deduct	*-2.46*	
		For >200, Deduct	*-4.93*	
32 17 23 13-0111	EA	CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	39.90	
		For <10, Add	*3.90*	
		For >50 To 100, Deduct	*-1.95*	
		For >100 To 200, Deduct	*-2.60*	
		For >200, Deduct	*-5.20*	
32 17 23 13-0112	EA	CALTRANS Diamond Symbol, Painted Reflective Pavement Marking	63.44	
		For <10, Add	*8.21*	
		For >50 To 100, Deduct	*-4.11*	
		For >100 To 200, Deduct	*-5.47*	
		For >200, Deduct	*-10.95*	
32 17 23 13-0113	EA	CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking	129.05	
		For <10, Add	*16.63*	
		For >50 To 100, Deduct	*-8.31*	
		For >100 To 200, Deduct	*-11.09*	
		For >200, Deduct	*-22.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0114	EA	CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking Note: Approximate overall dimensions: 4' width x 8' height.	27.52	
		For <10, Add	*3.90*	
		For >50 To 100, Deduct	*-1.95*	
		For >100 To 200, Deduct	*-2.60*	
		For >200, Deduct	*-5.20*	
32 17 23 13-0115	SF	CALTRANS Letter/Number, Painted Reflective Pavement Marking	5.04	
32 17 23 13-0116	SF	CALTRANS Symbols, Painted Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc.	5.58	

32 17 23 13-0117 Pavement Striping, Letters And Symbols For Parking Areas *(32 17 23 13)*

Note: Includes primers. Per Coat.

32 17 23 13-0118 Painted Pavement Marking For Parking Areas *(32 17 23 13-0117)*

Note: 15 mil thickness.

32 17 23 13-0119	LF	Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas	0.99	
32 17 23 13-0120	LF	Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas	1.08	
32 17 23 13-0121	LF	Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas	1.13	
32 17 23 13-0122	LF	Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas	1.28	
32 17 23 13-0123	EA	6" High, Letter/Number, Painted Pavement Marking For Parking Areas	3.03	
		For Up To 10, Add	*0.41*	
		For >50 To 100, Deduct	*-0.21*	
		For >100 To 200, Deduct	*-0.27*	
		For >200, Deduct	*-0.55*	
32 17 23 13-0124	EA	12" High, Letter/Number, Painted Pavement Marking For Parking Areas	5.15	
		For Up To 10, Add	*0.62*	
		For >50 To 100, Deduct	*-0.31*	
		For >100 To 200, Deduct	*-0.41*	
		For >200, Deduct	*-0.82*	
32 17 23 13-0125	EA	24" High, Letter/Number, Painted Pavement Marking For Parking Areas	8.69	
		For Up To 10, Add	*1.03*	
		For >50 To 100, Deduct	*-0.51*	
		For >100 To 200, Deduct	*-0.68*	
		For >200, Deduct	*-1.37*	
32 17 23 13-0126	EA	36" High, Letter/Number, Painted Pavement Marking For Parking Areas	16.24	
		For Up To 10, Add	*1.95*	
		For >50 To 100, Deduct	*-0.98*	
		For >100 To 200, Deduct	*-1.30*	
		For >200, Deduct	*-2.60*	
32 17 23 13-0127	EA	42" High, Letter/Number, Painted Pavement Marking For Parking Areas	21.52	
		For Up To 10, Add	*2.67*	
		For >50 To 100, Deduct	*-1.33*	
		For >100 To 200, Deduct	*-1.78*	
		For >200, Deduct	*-3.56*	
32 17 23 13-0128	EA	48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	26.12	
		For Up To 10, Add	*3.29*	
		For >50 To 100, Deduct	*-1.64*	
		For >100 To 200, Deduct	*-2.19*	
		For >200, Deduct	*-4.38*	
32 17 23 13-0129	EA	72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	35.07	
		For Up To 10, Add	*4.11*	
		For >50 To 100, Deduct	*-2.05*	
		For >100 To 200, Deduct	*-2.74*	
		For >200, Deduct	*-5.47*	
32 17 23 13-0130	EA	Through Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 3-1/2' width x 10' height.	63.32	
32 17 23 13-0131	EA	Turn Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 6' width x 8' height.	72.81	
32 17 23 13-0132	EA	Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 11' width x 8' height.	104.60	
32 17 23 13-0133	EA	Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 7' width x 13' height.	106.79	
32 17 23 13-0134	EA	Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 9' width x 15' height.	140.28	
32 17 23 13-0135	EA	Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.	25.55	
		For Blue Background With White Symbol, Add	*19.42*	
		For Blue Background With White Symbol And Border, Add	*24.28*	
32 17 23 13-0136	EA	Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.	37.91	
		For Blue Background With White Symbol, Add	*40.30*	
		For Blue Background With White Symbol And Border, Add	*50.38*	

32 17 23 13-0137 Painted Curbs *(32 17 23 13)*

Note: All colors.

32 17 23 13-0138	LF	Reflective Painted Curb	2.44	
32 17 23 13-0139	LF	Reflective Painted Curb And Gutter	4.67	
32 17 23 13-0140	LF	Painted Curb	1.97	
32 17 23 13-0141	LF	Painted Curb And Gutter	4.27	

32 17 23 13-0142 Markings For Outdoor Play Areas, Courts *(32 17 23 13)*

32 17 23 13-0143	LF	2" Wide Marking For Outdoor Play Areas	0.83	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0144	LF	3" Wide Marking For Outdoor Play Areas	0.95	
32 17 23 13-0145	LF	4" Wide Marking For Outdoor Play Areas	1.08	
32 17 23 13-0146	LF	6" Wide Marking For Outdoor Play Areas	1.26	
32 17 23 13-0147	EA	Paint Playground Game Lines On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera)	232.64	

32 17 23 23 Raised Pavement Markings *(32 17 23)*

32 17 23 23-0001 Raised Pavement Markers (RPMs) *(32 17 23 23)*

32 17 23 23-0002	EA	One-Way Reflective, Raised Pavement Marker (RPM) Note: Type G, H or R	4.41	2.49
		For >100, Deduct	*-0.44*	
32 17 23 23-0003	EA	Two-Way Reflective, Raised Pavement Marker (RPM) Note: Type B, C, D, AC, RA or RR	4.63	2.49
		For >100, Deduct	*-0.46*	
32 17 23 23-0004	EA	4" Diameter, Round Reflective, Raised Pavement Marker (RPM)	5.58	2.49
		For >100, Deduct	*-0.56*	
32 17 23 23-0005	EA	4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) Note: Type A or AY	4.12	2.49
		For >100, Deduct	*-0.41*	

32 17 23 23-0006 Snowplowable Pavement Markers *(32 17 23 23)*

32 17 23 23-0007	EA	One-Way Reflective, Snowplowable Pavement Marker With Center Rail Note: Type G, H or R	62.50	29.33
32 17 23 23-0008	EA	Two-Way Reflective, Snowplowable Pavement Marker With Center Rail Note: Type B, C, D, AC, RA or RR	62.69	29.33
32 17 23 23-0009	EA	Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	17.46	
32 17 23 23-0010	EA	Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	22.55	

32 17 23 33 Plastic Pavement Markings *(32 17 23)*

32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads *(32 17 23 33)*

Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.

32 17 23 33-0002 Thermoplastic Reflective Pavement Marking *(32 17 23 33-0001)*

Note: 90 mil thickness.

32 17 23 33-0003	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	1.13	
		For Up To 5,000 LF, Add	*0.23*	
		For >25,000 LF, Deduct	*-0.17*	
		For 60 mils Thick, Deduct	*-0.15*	
		For 125 mils Thick, Add	*0.20*	
		For Broken Line, Deduct	*-0.65*	
32 17 23 33-0004	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	1.62	
		For Up To 5,000 LF, Add	*0.32*	
		For >25,000 LF, Deduct	*-0.24*	
		For 60 mils Thick, Deduct	*-0.23*	
		For 125 mils Thick, Add	*0.29*	
		For Broken Line, Deduct	*-0.98*	
32 17 23 33-0005	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	2.14	
		For Up To 5,000 LF, Add	*0.43*	
		For >25,000 LF, Deduct	*-0.32*	
		For 60 mils Thick, Deduct	*-0.30*	
		For 125 mils Thick, Add	*0.39*	
		For Broken Line, Deduct	*-1.30*	
32 17 23 33-0006	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	3.12	
		For Up To 5,000 LF, Add	*0.62*	
		For >25,000 LF, Deduct	*-0.47*	
		For 60 mils Thick, Deduct	*-0.46*	
		For 125 mils Thick, Add	*0.59*	
		For Broken Line, Deduct	*-1.95*	
32 17 23 33-0007	LF	Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	2.12	
		For Up To 5,000 LF, Add	*0.42*	
		For >25,000 LF, Deduct	*-0.32*	
		For 60 mils Thick, Deduct	*-0.30*	
		For 125 mils Thick, Add	*0.39*	
		For Broken Line On One Side, Deduct	*-0.65*	
		For Double Broken Line, Deduct	*-1.30*	
32 17 23 33-0008	LF	Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	3.12	
		For Up To 5,000 LF, Add	*0.62*	
		For >25,000 LF, Deduct	*-0.47*	
		For 60 mils Thick, Deduct	*-0.46*	
		For 125 mils Thick, Add	*0.59*	
		For Broken Line On One Side, Deduct	*-0.98*	
		For Double Broken Line, Deduct	*-1.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0009	SF	Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	6.68	
		Note: Includes yellow or white.		
		For 60 mils Thick, Deduct	*-0.45*	
		For 125 mils Thick, Add	*0.58*	
32 17 23 33-0010	EA	6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	4.34	
		For Up To 10, Add	*0.46*	
		For >50 To 100, Deduct	*-0.23*	
		For >100 To 200, Deduct	*-0.31*	
		For >200, Deduct	*-0.62*	
		For 60 mils Thick, Deduct	*-0.22*	
		For 125 mils Thick, Add	*0.28*	
32 17 23 33-0011	EA	12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	9.21	
		For Up To 10, Add	*0.70*	
		For >50 To 100, Deduct	*-0.35*	
		For >100 To 200, Deduct	*-0.47*	
		For >200, Deduct	*-0.93*	
		For 60 mils Thick, Deduct	*-0.80*	
		For 125 mils Thick, Add	*1.03*	
32 17 23 33-0012	EA	24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	15.72	
		For Up To 10, Add	*1.16*	
		For >50 To 100, Deduct	*-0.58*	
		For >100 To 200, Deduct	*-0.77*	
		For >200, Deduct	*-1.55*	
		For 60 mils Thick, Deduct	*-1.40*	
		For 125 mils Thick, Add	*1.80*	
32 17 23 33-0013	EA	36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	29.58	
		For Up To 10, Add	*2.33*	
		For >50 To 100, Deduct	*-1.16*	
		For >100 To 200, Deduct	*-1.55*	
		For >200, Deduct	*-3.11*	
		For 60 mils Thick, Deduct	*-2.46*	
		For 125 mils Thick, Add	*3.16*	
32 17 23 33-0014	EA	48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	35.64	
		For Up To 10, Add	*2.61*	
		For >50 To 100, Deduct	*-1.30*	
		For >100 To 200, Deduct	*-1.74*	
		For >200, Deduct	*-3.48*	
		For 60 mils Thick, Deduct	*-3.20*	
		For 125 mils Thick, Add	*4.11*	
32 17 23 33-0015	EA	72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	64.29	
		For Up To 10, Add	*4.64*	
		For >50 To 100, Deduct	*-2.32*	
		For >100 To 200, Deduct	*-3.09*	
		For >200, Deduct	*-6.19*	
		For 60 mils Thick, Deduct	*-5.84*	
		For 125 mils Thick, Add	*7.51*	
32 17 23 33-0016	EA	96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	85.43	
		For Up To 10, Add	*6.23*	
		For >50 To 100, Deduct	*-3.11*	
		For >100 To 200, Deduct	*-4.15*	
		For >200, Deduct	*-8.31*	
		For 60 mils Thick, Deduct	*-7.68*	
		For 125 mils Thick, Add	*9.88*	
32 17 23 33-0017	EA	120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	149.44	
		For Up To 10, Add	*7.72*	
		For >50 To 100, Deduct	*-3.86*	
		For >100 To 200, Deduct	*-5.15*	
		For >200, Deduct	*-10.29*	
		For 60 mils Thick, Deduct	*-17.15*	
		For 125 mils Thick, Add	*22.05*	
32 17 23 33-0018	SF	Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	7.81	
		For 60 mils Thick, Deduct	*-0.55*	
		For 125 mils Thick, Add	*0.71*	
32 17 23 33-0019	SY	Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	22.92	
		Note: Per SY of area.		
		For 60 mils Thick, Deduct	*-1.02*	
		For 125 mils Thick, Add	*1.31*	
32 17 23 33-0020	EA	Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	203.32	
		For 60 mils Thick, Deduct	*-12.72*	
		For 125 mils Thick, Add	*16.36*	
32 17 23 33-0021	EA	Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	604.41	
		For 60 mils Thick, Deduct	*-38.72*	
		For 125 mils Thick, Add	*49.78*	
32 17 23 33-0022	EA	Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	127.47	
		Note: Approximate overall dimensions: 4' width x 8' height.		
		For 60 mils Thick, Deduct	*-17.52*	
		For 125 mils Thick, Add	*22.52*	
32 17 23 33-0023	EA	Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	97.24	
		For 60 mils Thick, Deduct	*-6.08*	
		For 125 mils Thick, Add	*7.82*	
32 17 23 33-0024	SF	Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	8.84	
		Note: Handicap, railroad, diamond, arrows, etc.		
		For 60 mils Thick, Deduct	*-0.55*	
		For 125 mils Thick, Add	*0.71*	
32 17 23 33-0025	EA	10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	123.76	
		For 60 mils Thick, Deduct	*-7.74*	
		For 125 mils Thick, Add	*9.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0026	EA	18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	220.99	
		For 60 mils Thick, Deduct	*-13.83*	
		For 125 mils Thick, Add	*17.78*	
32 17 23 33-0027	EA	24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	274.04	
		For 60 mils Thick, Deduct	*-17.15*	
		For 125 mils Thick, Add	*22.05*	
32 17 23 33-0028	EA	24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	397.79	
		For 60 mils Thick, Deduct	*-24.89*	
		For 125 mils Thick, Add	*32.00*	
32 17 23 33-0029	EA	24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	521.55	
		For 60 mils Thick, Deduct	*-32.63*	
		For 125 mils Thick, Add	*41.96*	
32 17 23 33-0030	EA	24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	371.27	
		For 60 mils Thick, Deduct	*-23.23*	
		For 125 mils Thick, Add	*29.87*	
32 17 23 33-0031	EA	24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	645.31	
		For 60 mils Thick, Deduct	*-40.38*	
		For 125 mils Thick, Add	*51.91*	
32 17 23 33-0032	EA	8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	132.60	
		For 60 mils Thick, Deduct	*-8.30*	
		For 125 mils Thick, Add	*10.67*	
32 17 23 33-0033	EA	24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	291.71	
		For 60 mils Thick, Deduct	*-18.25*	
		For 125 mils Thick, Add	*23.47*	
32 17 23 33-0034	EA	18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	371.27	
		For 60 mils Thick, Deduct	*-23.23*	
		For 125 mils Thick, Add	*29.87*	
32 17 23 33-0035	EA	13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	238.67	
		For 60 mils Thick, Deduct	*-14.93*	
		For 125 mils Thick, Add	*19.20*	
32 17 23 33-0036	EA	15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	318.24	
		For 60 mils Thick, Deduct	*-19.91*	
		For 125 mils Thick, Add	*25.60*	
32 17 23 33-0037	EA	5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	61.88	
		For 60 mils Thick, Deduct	*-3.87*	
		For 125 mils Thick, Add	*4.98*	

32 17 23 33-0038 Thermoplastic Reflective Pavement Striping By Hand For Repairs *(32 17 23 33-0001)*

32 17 23 33-0039	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	2.32	
		For 60 mils Thick, Deduct	*-0.15*	
		For 125 mils Thick, Add	*0.20*	
32 17 23 33-0040	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	2.95	
		For 60 mils Thick, Deduct	*-0.23*	
		For 125 mils Thick, Add	*0.29*	
32 17 23 33-0041	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.65	
		For 60 mils Thick, Deduct	*-0.30*	
		For 125 mils Thick, Add	*0.39*	
32 17 23 33-0042	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	5.26	
		For 60 mils Thick, Deduct	*-0.46*	
		For 125 mils Thick, Add	*0.59*	
32 17 23 33-0043	LF	Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	9.53	
		For 60 mils Thick, Deduct	*-0.91*	
		For 125 mils Thick, Add	*1.17*	

32 17 23 33-0044 Preformed, Patterned Reflective Pavement Marking Tape *(32 17 23 33-0001)*

Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).

32 17 23 33-0045	LF	Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	2.39	
		For Up To 5,000 LF, Add	*0.48*	
		For >25,000 LF, Deduct	*-0.36*	
32 17 23 33-0046	LF	Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	3.54	
		For Up To 5,000 LF, Add	*0.71*	
		For >25,000 LF, Deduct	*-0.53*	
32 17 23 33-0047	LF	Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	4.71	
		For Up To 5,000 LF, Add	*0.94*	
		For >25,000 LF, Deduct	*-0.71*	
32 17 23 33-0048	LF	Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	6.96	
		For Up To 5,000 LF, Add	*1.39*	
		For >25,000 LF, Deduct	*-1.04*	
32 17 23 33-0049	SF	Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape Note: Includes yellow or white.	18.89	
32 17 23 33-0050	EA	6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	28.10	
		For <10, Add	*0.84*	
		For >50 To 100, Deduct	*-0.42*	
		For >100 To 200, Deduct	*-0.56*	
		For >200, Deduct	*-1.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0051	EA	12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	49.92	
		For <10, Add	*1.07*	
		For >50 To 100, Deduct	*-0.53*	
		For >100 To 200, Deduct	*-0.71*	
		For >200, Deduct	*-1.42*	
32 17 23 33-0052	EA	24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	85.55	
		For <10, Add	*2.11*	
		For >50 To 100, Deduct	*-1.06*	
		For >100 To 200, Deduct	*-1.41*	
		For >200, Deduct	*-2.82*	
32 17 23 33-0053	EA	36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	122.65	
		For <10, Add	*4.23*	
		For >50 To 100, Deduct	*-2.11*	
		For >100 To 200, Deduct	*-2.82*	
		For >200, Deduct	*-5.64*	
32 17 23 33-0054	EA	48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	143.92	
		For <10, Add	*4.74*	
		For >50 To 100, Deduct	*-2.37*	
		For >100 To 200, Deduct	*-3.16*	
		For >200, Deduct	*-6.32*	
32 17 23 33-0055	EA	72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	182.49	
		For <10, Add	*8.44*	
		For >50 To 100, Deduct	*-4.22*	
		For >100 To 200, Deduct	*-5.63*	
		For >200, Deduct	*-11.25*	
32 17 23 33-0056	EA	96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	232.25	
		For <10, Add	*11.33*	
		For >50 To 100, Deduct	*-5.67*	
		For >100 To 200, Deduct	*-7.55*	
		For >200, Deduct	*-15.11*	
32 17 23 33-0057	EA	120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	291.24	
		For <10, Add	*14.04*	
		For >50 To 100, Deduct	*-7.02*	
		For >100 To 200, Deduct	*-9.36*	
		For >200, Deduct	*-18.72*	
32 17 23 33-0058	SF	Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	19.44	
32 17 23 33-0059	SF	Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	20.47	
		Note: Handicap, railroad, diamond symbol, etc.		

32 17 23 33-0060 Preformed, Thermoplastic Reflective Pavement Marking *(32 17 23 33-0001)*

Note: Heat applied. (Flint PreMark or HotTape Series).

32 17 23 33-0061	EA	Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	226.57	
		Note: Approximate overall dimensions: 4' width x 8' height.		
32 17 23 33-0062	EA	Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	600.24	
		Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.		
32 17 23 33-0063	EA	Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	122.74	
		Note: Approximate overall dimensions: 3-1/4' width x 13' height.		
32 17 23 33-0064	EA	6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	104.95	
		Note: Approximate overall dimensions: 2' width x 6' height.		
32 17 23 33-0065	EA	9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	199.06	
		Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.		
32 17 23 33-0066	EA	4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	120.67	
		Note: Approximate overall dimensions: 3' width x 4' height.		
32 17 23 33-0067	EA	8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	220.96	
		Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 33-0068	EA	Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	373.98	
		Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.		
32 17 23 33-0069	EA	Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	560.20	
		Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.		
32 17 23 33-0070	EA	Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	205.76	
		Note: Approximate overall dimensions: 1-2/3' width x 12' height.		
32 17 23 33-0071	EA	Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	227.66	
		Note: Approximate overall dimensions: 3' width x 12' height.		
32 17 23 33-0072	EA	Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	414.28	
		Note: Approximate overall dimensions: 5-1/2' width x 12' height.		
32 17 23 33-0073	EA	Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	381.50	
		Note: Approximate overall dimensions: 3-1/2' width x 20' height.		
32 17 23 33-0074	EA	Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	383.56	
		Note: Approximate overall dimensions: 5-1/2' width x 20' height.		
32 17 23 33-0075	EA	Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	523.64	
		Note: Approximate overall dimensions: 5-1/2' width x 18' height.		

32 17 23 33-0076 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas

(32 17 23 33)

32 17 23 33-0077 Thermoplastic Pavement Marking Symbols For Parking Areas *(32 17 23 33-0076)*

Note: Heat applied. (Flint PreMark Series).

32 17 23 33-0078	EA	28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	78.57	
		Note: White or blue symbol. Excludes striping.		
32 17 23 33-0079	EA	39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	287.32	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0080	EA	40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	164.30	
32 17 23 33-0081	EA	45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	196.85	
32 17 23 33-0082	EA	48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas	206.23	

32 17 26 Tactile Warning Surfaces *(32 17)*

32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile) *(32 17 26)*

Note: Truncated dome, raised strips or directional bars. All colors.

32 17 26 00-0002	SF	Surface Applied VPC Truncated Dome Detectable Warning Surface Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.	49.63	7.72
32 17 26 00-0003	SF	Embedded, VPC Truncated Dome Detectable Warning Surface Note: Also raised strips or directional bars. All colors.	39.60	7.72

32 17 26 00-0004 Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) *(32 17 26)*

Note: Pre-molded tactile dome sheet. All colors.

32 17 26 00-0005	SF	Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	55.69	7.72
32 17 26 00-0006	SF	>15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	48.75	7.72

32 18 Athletic and Recreational Surfacing *(32 10)*

32 18 16 Synthetic Resilient Surfacing *(32 18)*

32 18 16 13 Playground Protective Surfacing *(32 18 16)*

32 18 16 13-0001 Tile Playground Surface Material *(32 18 16 13)*

Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.

32 18 16 13-0002	SF	1-3/4" Thick, Resilient Rubber Tile	15.44	2.25
		For Manufacturer's Standard Colors, Add	*0.78*	
		For Interlocking Tiles, Add	*1.74*	
		For Mechanically Fastened, Add	*1.75*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0003	SF	2" Thick, Resilient Rubber Tile	15.87	2.38
		For Manufacturer's Standard Colors, Add	*0.78*	
		For Interlocking Tiles, Add	*1.74*	
		For Mechanically Fastened, Add	*1.83*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0004	SF	2-1/4" Thick, Resilient Rubber Tile	16.71	2.66
		For Manufacturer's Standard Colors, Add	*0.78*	
		For Interlocking Tiles, Add	*1.74*	
		For Mechanically Fastened, Add	*2.00*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0005	SF	2-1/2" Thick, Resilient Rubber Tile	17.56	2.95
		For Manufacturer's Standard Colors, Add	*0.78*	
		For Interlocking Tiles, Add	*1.74*	
		For Mechanically Fastened, Add	*2.17*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0006	SF	2-3/4" Thick, Resilient Rubber Tile	19.52	3.23
		For Manufacturer's Standard Colors, Add	*0.59*	
		For Interlocking Tiles, Add	*1.97*	
		For Mechanically Fastened, Add	*2.34*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0007	SF	3" Thick, Resilient Rubber Tile	20.46	3.54
		For Manufacturer's Standard Colors, Add	*0.59*	
		For Interlocking Tiles, Add	*1.97*	
		For Mechanically Fastened, Add	*2.53*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0008	SF	3-1/4" Thick, Resilient Rubber Tile	21.43	3.86
		For Manufacturer's Standard Colors, Add	*0.59*	
		For Interlocking Tiles, Add	*1.97*	
		For Mechanically Fastened, Add	*2.72*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0009	SF	3-1/2" Thick, Resilient Rubber Tile	23.45	4.13
		For Manufacturer's Standard Colors, Add	*0.33*	
		For Interlocking Tiles, Add	*2.19*	
		For Mechanically Fastened, Add	*2.90*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0010	SF	3-3/4" Thick, Resilient Rubber Tile	24.29	4.47
		For Manufacturer's Standard Colors, Add	*0.33*	
		For Interlocking Tiles, Add	*2.19*	
		For Mechanically Fastened, Add	*3.06*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0011	SF	4" Thick, Resilient Rubber Tile	25.22	4.72
		For Manufacturer's Standard Colors, Add	*0.33*	
		For Interlocking Tiles, Add	*2.19*	
		For Mechanically Fastened, Add	*3.25*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	
32 18 16 13-0012	SF	4-1/2" Thick, Resilient Rubber Tile	28.88	5.31
		For Manufacturer's Standard Colors, Add	*0.32*	
		For Interlocking Tiles, Add	*2.57*	
		For Mechanically Fastened, Add	*3.60*	
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	*1.50*	

32 18 16 13-0013 Loose Laid Playground Surface Material *(32 18 16 13)*

Note: Excludes sub base.

32 18 16 13-0014	SF	3" Loose Laid Wood Fiber Safety Surface	1.77	0.34
32 18 16 13-0015	SF	6" Loose Laid Wood Fiber Safety Surface	2.40	0.42
32 18 16 13-0016	SF	9" Loose Laid Wood Fiber Safety Surface	3.09	0.51
32 18 16 13-0017	SF	12" Loose Laid Wood Fiber Safety Surface	4.36	0.76
32 18 16 13-0018	SF	3" Loose Laid Synthetic Fiber Safety Surface	2.94	0.34
32 18 16 13-0019	SF	6" Loose Laid Synthetic Fiber Safety Surface	3.64	0.42
32 18 16 13-0020	SF	9" Loose Laid Synthetic Fiber Safety Surface	5.77	0.51
32 18 16 13-0021	SF	12" Loose Laid Synthetic Fiber Safety Surface	7.09	0.76
32 18 16 13-0022	SF	8" FIBAR System	11.39	1.26
		Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023	SF	12" FIBAR System	14.42	1.69
		Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		

32 18 16 13-0024 Poured In Place Playground Surfacing *(32 18 16 13)*

Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.

32 18 16 13-0025	SF	Up To 4' Critical Fall Height (1-3/4") Poured In Place Rubber Playground Surfacing	13.28	2.43
		For Up To 2,000, Add	*3.13*	
		For >2,000 To 3,000, Add	*2.19*	
		For >3,000 To 4,000, Add	*1.49*	
		For >4,000 To 5,000, Add	*0.95*	
		For >5,000 To 7,000, Add	*0.39*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	
32 18 16 13-0026	SF	5' Critical Fall Height (2") Poured In Place Rubber Playground Surfacing	13.69	2.70
		For Up To 2,000, Add	*3.23*	
		For >2,000 To 3,000, Add	*2.26*	
		For >3,000 To 4,000, Add	*1.53*	
		For >4,000 To 5,000, Add	*0.97*	
		For >5,000 To 7,000, Add	*0.40*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	
32 18 16 13-0027	SF	6' Critical Fall Height (2-1/2") Poured In Place Rubber Playground Surfacing	14.77	3.08
		For Up To 2,000, Add	*3.48*	
		For >2,000 To 3,000, Add	*2.44*	
		For >3,000 To 4,000, Add	*1.65*	
		For >4,000 To 5,000, Add	*1.05*	
		For >5,000 To 7,000, Add	*0.43*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	
32 18 16 13-0028	SF	7' Critical Fall Height (3") Poured In Place Rubber Playground Surfacing	15.96	3.28
		For Up To 2,000, Add	*3.76*	
		For >2,000 To 3,000, Add	*2.64*	
		For >3,000 To 4,000, Add	*1.79*	
		For >4,000 To 5,000, Add	*1.14*	
		For >5,000 To 7,000, Add	*0.47*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	
32 18 16 13-0029	SF	8' Critical Fall Height (3-1/2") Poured In Place Rubber Playground Surfacing	17.14	3.45
		For Up To 2,000, Add	*4.04*	
		For >2,000 To 3,000, Add	*2.83*	
		For >3,000 To 4,000, Add	*1.92*	
		For >4,000 To 5,000, Add	*1.22*	
		For >5,000 To 7,000, Add	*0.50*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	
32 18 16 13-0030	SF	9' Critical Fall Height (4") Poured In Place Rubber Playground Surfacing	18.13	3.65
		For Up To 2,000, Add	*4.27*	
		For >2,000 To 3,000, Add	*2.99*	
		For >3,000 To 4,000, Add	*2.03*	
		For >4,000 To 5,000, Add	*1.29*	
		For >5,000 To 7,000, Add	*0.53*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0031	SF	10' Critical Fall Height (4-1/2") Poured In Place Rubber Playground Surfacing	19.32	3.85
		For Up To 2,000, Add	*4.55*	
		For >2,000 To 3,000, Add	*3.19*	
		For >3,000 To 4,000, Add	*2.16*	
		For >4,000 To 5,000, Add	*1.38*	
		For >5,000 To 7,000, Add	*0.57*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	
32 18 16 13-0032	SF	12' Critical Fall Height (5-1/2") Poured In Place Rubber Playground Surfacing	21.67	4.32
		For Up To 2,000, Add	*5.11*	
		For >2,000 To 3,000, Add	*3.58*	
		For >3,000 To 4,000, Add	*2.42*	
		For >4,000 To 5,000, Add	*1.54*	
		For >5,000 To 7,000, Add	*0.63*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	
32 18 16 13-0033	SF	Top Only (1/2") Poured In Place Playground Surfacing Note: Not used with new surfacing system tasks.	8.67	
		For Up To 2,000, Add	*3.13*	
		For >2,000 To 3,000, Add	*2.01*	
		For >3,000 To 4,000, Add	*1.22*	
		For >4,000 To 5,000, Add	*0.73*	
		For >5,000 To 7,000, Add	*0.33*	
		For Aliphatic (Non Yellowing) Binder, Add	*2.72*	
		For Each 10% Of Area In Black Instead Of Color, Deduct	*-0.38*	
32 18 16 13-0034	EA	Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing	2,397.93	

32 18 16 13-0035 Synthetic Playground Turf (Sporturf) *(32 18 16 13)*

Note: Excludes base preparation, aggregate, or drainage.

32 18 16 13-0036	SF	60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929)	7.37	
32 18 16 13-0037	SF	71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906)	6.56	
32 18 16 13-0038	SF	2" Foam Padding (Sporturf)	4.32	
32 18 16 13-0039	CF	Sand/Ruber Infill (Sporturf)	47.95	

32 18 23 Athletic Surfacing *(32 18)*

32 18 23 29 Synthetic Field Sport Surfacing *(32 18 23)*

32 18 23 29-0001 Synthetic Turf *(32 18 23 29)*

32 18 23 29-0002 Synthetic Turf (AstroTurf) *(32 18 23 29-0001)*

Note: Tasks include labor, equipment and material required to install the task.

32 18 23 29-0003 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) *(32 18 23 29-0002)*

32 18 23 29-0004 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) *(32 18 23 29-0003)*

32 18 23 29-0005	SF	38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	5.94	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.26*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.31*	
		For Cryo Rubber And Sand Infill, Add	*0.36*	
32 18 23 29-0006	EA	Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields	17,484.12	
32 18 23 29-0007	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields	14,251.20	
32 18 23 29-0008	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields Note: Per sport.	4,288.56	
32 18 23 29-0009	EA	Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields Note: Per letter. Excludes outline.	1,583.47	
32 18 23 29-0010	EA	Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields Note: Per endzone.	1,517.49	
32 18 23 29-0011	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields Note: Block letter.	13,195.56	
32 18 23 29-0012	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields Note: Graphic.	19,133.56	

32 18 23 29-0013 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) *(32 18 23 29-0003)*

32 18 23 29-0014	SF	41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	6.74	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.26*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.31*	
		For Cryo Rubber And Sand Infill, Add	*0.36*	
32 18 23 29-0015	EA	Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields	17,814.11	
32 18 23 29-0016	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields	14,779.12	
32 18 23 29-0017	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields Note: Per sport.	4,618.47	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0018	EA	Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields Note: Per letter. Excludes outline.	1,715.43	
32 18 23 29-0019	EA	Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields Note: Per endzone.	1,583.48	
32 18 23 29-0020	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields Note: Block letter.	13,855.42	
32 18 23 29-0021	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields Note: Graphic.	20,090.36	

32 18 23 29-0022 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) *(32 18 23 29-0003)*

32 18 23 29-0023	SF	45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45)	6.85	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.26*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.31*	
		For Cryo Rubber And Sand Infill, Add	*0.36*	
32 18 23 29-0024	EA	Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields	18,144.00	
32 18 23 29-0025	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields	15,966.72	
32 18 23 29-0026	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields Note: Per sport.	4,948.36	
32 18 23 29-0027	EA	Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields Note: Per letter. Excludes outline.	1,847.39	
32 18 23 29-0028	EA	Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields Note: Per endzone.	1,649.45	
32 18 23 29-0029	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields Note: Block letter.	14,515.20	
32 18 23 29-0030	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields Note: Graphic.	21,047.04	

32 18 23 29-0031 Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) *(32 18 23 29-0002)*

32 18 23 29-0032 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) *(32 18 23 29-0031)*

32 18 23 29-0033	SF	52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52)	7.60	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.20*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.25*	
		For Cryo Rubber And Sand Infill, Add	*0.30*	
32 18 23 29-0034	EA	Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	18,803.67	
32 18 23 29-0035	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	20,057.25	
32 18 23 29-0036	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Per sport.	5,608.11	
32 18 23 29-0037	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Per letter. Excludes outline.	2,111.29	
32 18 23 29-0038	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Per endzone.	1,781.40	
32 18 23 29-0039	EA	Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Block letter.	15,834.67	
32 18 23 29-0040	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields Note: Graphic.	22,960.27	

32 18 23 29-0041 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) *(32 18 23 29-0031)*

32 18 23 29-0042	SF	60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60)	7.84	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.20*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.25*	
		For Cryo Rubber And Sand Infill, Add	*0.30*	
32 18 23 29-0043	EA	Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	19,133.56	
32 18 23 29-0044	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	22,300.50	
32 18 23 29-0045	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields Note: Per sport.	5,938.00	
32 18 23 29-0046	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields Note: Per letter. Excludes outline.	2,243.25	
32 18 23 29-0047	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields Note: Per endzone.	1,847.38	
32 18 23 29-0048	EA	Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields Note: Block letter.	16,494.45	
32 18 23 29-0049	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields Note: Graphic.	23,916.95	

32 18 23 29-0050 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) *(32 18 23 29-0031)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0051	SF	52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52)	7.85	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.20*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.25*	
		For Cryo Rubber And Sand Infill, Add	*0.30*	
32 18 23 29-0052	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	19,463.45	
32 18 23 29-0053	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	22,432.45	
32 18 23 29-0054	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Per sport.	6,267.89	
32 18 23 29-0055	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Per letter. Excludes outline.	2,375.20	
32 18 23 29-0056	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Per endzone.	1,913.36	
32 18 23 29-0057	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Block letter.	17,154.23	
32 18 23 29-0058	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields Note: Graphic.	24,873.63	

32 18 23 29-0059 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) *(32 18 23 29-0031)*

32 18 23 29-0060	SF	60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60)	7.99	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.20*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.25*	
		For Cryo Rubber And Sand Infill, Add	*0.30*	
32 18 23 29-0061	EA	Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	19,793.34	
32 18 23 29-0062	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	23,883.96	
32 18 23 29-0063	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Per sport.	6,597.78	
32 18 23 29-0064	EA	Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Per letter. Excludes outline.	2,639.11	
32 18 23 29-0065	EA	Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Per endzone.	1,979.33	
32 18 23 29-0066	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Block letter.	17,814.01	
32 18 23 29-0067	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Graphic.	25,830.31	

32 18 23 29-0068 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) *(32 18 23 29-0002)*

32 18 23 29-0069 38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) *(32 18 23 29-0068)*

32 18 23 29-0070	SF	38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38)	6.49	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.26*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.31*	
		For Cryo Rubber And Sand Infill, Add	*0.36*	
32 18 23 29-0071	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	16,824.44	
32 18 23 29-0072	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	12,403.90	
32 18 23 29-0073	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per sport.	3,628.80	
32 18 23 29-0074	EA	Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per letter. Excludes outline.	1,319.56	
32 18 23 29-0075	EA	Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per endzone.	1,385.54	
32 18 23 29-0076	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Block letter.	11,876.08	
32 18 23 29-0077	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Graphic.	17,220.31	

32 18 23 29-0078 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) *(32 18 23 29-0068)*

32 18 23 29-0079	SF	42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42)	5.78	
		For Ambient Rubber And Sand Infill, Add	*0.10*	
		For Cryo Rubber Infill, Add	*0.26*	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	*0.31*	
		For Cryo Rubber And Sand Infill, Add	*0.36*	
32 18 23 29-0080	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	17,154.23	
32 18 23 29-0081	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	13,195.56	
32 18 23 29-0082	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per sport.	3,958.67	
32 18 23 29-0083	EA	Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per letter. Excludes outline.	1,451.51	
32 18 23 29-0084	EA	Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per endzone.	1,451.51	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0085	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Block letter.	12,535.78	
32 18 23 29-0086	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Graphic.	18,176.88	

32 18 23 29-0087 Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) *(32 18 23 29-0002)*

32 18 23 29-0088	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®)	12.22	
32 18 23 29-0089	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®)	11.01	
32 18 23 29-0090	EA	Football Markings For AstroTurf® PureGrass® Fields	32,555.74	
32 18 23 29-0091	EA	Baseball Markings For AstroTurf® PureGrass® Fields	38,677.33	
32 18 23 29-0092	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields Note: Per sport.	9,460.64	
32 18 23 29-0093	EA	Endzone Lettering For AstroTurf® PureGrass® Fields Note: Per letter. Excludes outline.	3,617.30	
32 18 23 29-0094	EA	Colored Endzone For AstroTurf® PureGrass® Fields Note: Per endzone.	2,685.01	
32 18 23 29-0095	EA	Simple Logo For AstroTurf® PureGrass® Fields Note: Block letter.	24,165.09	
32 18 23 29-0096	EA	Deluxe Logo For AstroTurf® PureGrass® Fields Note: Graphic.	35,477.41	

32 18 23 29-0097 Synthetic Turf (G9 Turf) *(32 18 23 29-0001)*

Note: Tasks include labor, equipment and material required to install the task.

32 18 23 29-0098	SF	2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf) Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.	7.01	
		For >35,000, Deduct	*-0.65*	
32 18 23 29-0099	SF	2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf) Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.	6.95	
		For >35,000, Deduct	*-0.64*	
32 18 23 29-0100	SF	1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf) Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.	7.24	
32 18 23 29-0101	EA	Football Inlays For G9 Synthetic Turf Note: Includes field grid, numbers, arrows, coach's box and kick off lines.	45,006.21	
32 18 23 29-0102	EA	Soccer Inlays For G9 Synthetic Turf	19,502.69	
32 18 23 29-0103	EA	Boys Lacrosse Inlays For G9 Synthetic Turf	19,502.69	
32 18 23 29-0104	EA	Girls Lacrosse Inlays For G9 Synthetic Turf	19,502.69	
32 18 23 29-0105	EA	Field Hockey Inlays For G9 Synthetic Turf	19,502.69	
32 18 23 29-0106	EA	Endzone Lettering For G9 Synthetic Turf Note: Priced per letter. Includes single color outlining.	2,250.31	
32 18 23 29-0107	SF	Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf	2.11	
32 18 23 29-0108	SF	Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf	5.50	
32 18 23 29-0109	SF	Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf	1.57	
32 18 23 29-0110	SF	Sand Infill For G9 Synthetic Turf	0.79	
32 18 23 29-0111	SF	Acrylic Coated Sand Infill For G9 Synthetic Turf	1.30	
32 18 23 29-0112	EA	Gmax Compaction And Hardness Test For G9 Synthetic Turf Note: Includes a comprehensive report.	1,500.21	
32 18 23 29-0113	EA	Safety Bridge Over Track For G9 Synthetic Turf	15,002.07	
32 18 23 29-0114	SF	Clean And Groom Synthetic Turf Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.	0.49	
		For >10,000 To 30,000, Deduct	*-0.20*	
		For >30,000 To 60,000, Deduct	*-0.34*	
		For >60,000, Deduct	*-0.37*	
32 18 23 29-0115	SF	Rejuvenate Synthetic Turf And Reinstall Existing Infill Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.	3.36	
32 18 23 29-0116	SF	Rejuvenate Synthetic Turf For Installation Of New Infill Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.	3.74	
32 18 23 29-0117	SF	Drainage Layer For G9 Synthetic Turf Note: Used for drainage over asphalt or on roof tops.	3.06	
32 18 23 29-0118	SF	15 mm, Shock Pad For G9 Synthetic Turf Note: Used for additional Gmax for a stone base field.	1.88	
32 18 23 29-0119	EA	Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf Note: Includes field inspection and report.	2,989.80	
32 18 23 29-0120	LF	Repair Inlay Lines Or Seams On G9 Synthetic Turf Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.	8.22	
32 18 23 29-0121	LF	Nailer Used To Attach G9 Synthetic Turf	3.29	
32 18 23 29-0122	SF	Removal And Recycling Of Existing Field Note: Includes removal, shipping and recycling of infill, fibers and backing.	2.32	

32 18 23 33 Running Track Surfacing *(32 18 23)*

32 18 23 33-0001 Running Track Surfacing *(32 18 23 33)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 33-0002	SY	2-1/2" Asphaltic Concrete Running Track Surfacing	32.52	

32 18 23 33-0003 Running Track Seal And Colored Surfaces *(32 18 23 33)*

32 18 23 33-0004	SY	1 Seal Coat, Striping Of Track Note: Includes certification.	13.54	

32 18 23 39 Synthetic Running Track Surfacing *(32 18 23)*

32 18 23 39-0001 Synthetic Running Track Surfacing (XPLODE™) And Striping *(32 18 23 39)*

Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.

32 18 23 39-0002	SY	Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing (XPLODE™ M100)	47.04	6.33
		For >5,500, Deduct	*-5.17*	
		For Up To 4,000, Add	*16.46*	
32 18 23 39-0003	SY	Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing (XPLODE™ MS200)	63.14	6.33
		For >5,500, Deduct	*-6.95*	
		For Up To 4,000, Add	*22.10*	
		For Custom Color Upgrade, Add	*6.00*	
		For Aliphatic Top Coating, Add	*11.37*	
32 18 23 39-0004	SY	Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing (XPLODE™ MSX500)	106.11	6.33
		For >5,500, Deduct	*-6.37*	
		For Up To 4,000, Add	*37.14*	
		For Custom Color Upgrade, Add	*8.17*	
		For Aliphatic Top Coating, Add	*15.17*	
32 18 23 39-0005	SY	Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing (XPLODE™ MSX5000)	137.06	6.33
		For >5,500, Deduct	*-8.22*	
		For Up To 4,000, Add	*47.97*	
		For Custom Color Upgrade, Add	*10.69*	
		For Aliphatic Top Coating, Add	*15.62*	
32 18 23 39-0006	SY	Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Lightning)	42.86	
		For >5,500, Deduct	*-4.71*	
		For Up To 4,000, Add	*15.00*	
32 18 23 39-0007	SY	Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Accelerator)	48.24	
		For >5,500, Deduct	*-6.99*	
		For Up To 4,000, Add	*16.88*	
32 18 23 39-0008	SY	Spray Retop XPLODE™ M100/MS200 Running Tracks	42.37	
		For Up To 4,000, Add	*14.83*	
		For >5,500, Deduct	*-4.14*	
32 18 23 39-0009	SY	Sandwich Retop XPLODE™ MSX500 Running Tracks	82.01	
		For Up To 4,000, Add	*28.70*	
		For >5,500, Deduct	*-8.64*	
32 18 23 39-0010	SY	Retop XPLODE™ Plexitrac® Lightning Running Tracks Note: Two layers.	23.85	
		For Up To 4,000, Add	*8.35*	
		For >5,500, Deduct	*-3.94*	
32 18 23 39-0011	SY	Retop XPLODE™ Plexitrac® Accelerator Running Tracks Note: Two layers.	29.04	
		For Up To 4,000, Add	*10.16*	
		For >5,500, Deduct	*-3.94*	
32 18 23 39-0012	EA	Restripe XPLODE™ Running Track Note: Includes two coats of acrylic resurfacer and two coats of color.	9,860.81	
		For College Track Restriping, Add	*1,792.88*	

32 18 23 53 Tennis Court Surfacing *(32 18 23)*

32 18 23 53-0001 Tennis Court Surfacing *(32 18 23 53)*

See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.

32 18 23 53-0002	SY	Tennis Court Bituminous Pavement, 2-1/2" Thick	35.25	

32 18 23 53-0003 Tennis Court Markings *(32 18 23 53)*

32 18 23 53-0004	EA	Paint Markings On Asphalt Tennis Court 2 Coats	371.93	

32 18 23 56 Natural Tennis Court Surfacing *(32 18 23)*

32 18 23 56-0001	SY	Clay Tennis Court	49.22	
32 18 23 56-0002	SY	Tennis Court, Pulverized Natural Greenstone, Fast Dry Note: Includes 4" base.	54.78	
32 18 23 56-0003	SY	Tennis Court, Rubber-Cork Base Resilient Pavement	17.62	
32 18 23 56-0004	SY	Resurface Clay Tennis Court	14.20	
32 18 23 56-0005	SY	Resurface Tennis Court, Pulverized Natural Greenstone	12.01	
32 18 23 56-0006	SY	Resurface Tennis Court, Resilient Pavement	7.57	

32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing *(32 18 23)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0001		**100% Acrylic Athletic Surfacing System (Plexipave®)** *(32 18 23 61)* Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002		**Surface Preparation For Athletic Surfacing System (Plexipave®)** *(32 18 23 61-0001)*		
32 18 23 61-0003	SY	100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	1.44	
32 18 23 61-0004	SY	Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat Note: For previously uncoated portland cement concrete. Applied with broom.	0.78	
32 18 23 61-0005	SY	Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.	2.02	
32 18 23 61-0006	SY	Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.	81.98	
32 18 23 61-0007		**Surface Coatings For Athletic Surfacing System (Plexipave®)** *(32 18 23 61-0001)* Note: Standard colors include dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.91	
		For Pacific Blue, Add	*0.16*	
		For US Open Blue, Add	*0.56*	
32 18 23 61-0009	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.37	
		For Pacific Blue, Add	*0.11*	
		For US Open Blue, Add	*0.40*	
32 18 23 61-0010	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.	2.07	
		For Pacific Blue, Add	*0.09*	
		For US Open Blue, Add	*0.31*	
32 18 23 61-0011	SY	Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.	2.19	
		For Pacific Blue, Add	*0.05*	
		For US Open Or Australian Open Blue, Add	*0.36*	
		For Pro Purple, Add	*0.94*	
32 18 23 61-0012		**Line Striping For Athletic Surfacing System (Plexipave®)** *(32 18 23 61-0001)*		
32 18 23 61-0013	SY	Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®) Note: Textured or non-textured highly reflective line marking paint.	1.40	
32 18 23 61-0014		**Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®)** *(32 18 23 61-0001)*		
32 18 23 61-0015	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat Note: Applied with rubber squeegee.	4.76	
32 18 23 61-0016	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat Note: Applied with rubber squeegee.	6.50	
32 18 23 61-0017	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat Note: Price per coat for third or additional coats. Applied with rubber squeegee.	5.59	
32 18 23 61-0018	SY	Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat Note: Applied with rubber squeegee.	4.19	
32 18 23 61-0019	SY	Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat Note: Price per coat for second or additional coats. Applied with rubber squeegee.	3.19	
32 18 23 61-0020		**Resurface Athletic Court** *(32 18 23 61)* Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0021	SY	Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster)	2.09	

32 30 Site Improvements *(32)*

32 31 Fences and Gates *(32 30)*

32 31 11 Gate Operators *(32 31)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0001		**Gate Operators** *(32 31 11)* Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002		**Swing Gate Actuator (DKS™ DoorKing®)** *(32 31 11 00-0001)*		
32 31 11 00-0003		**Single Gate, Swing Gate Actuator** *(32 31 11 00-0002)*		
32 31 11 00-0004	EA	Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003) Note: Includes one primary operator with a 10' wide gate capacity.	1,553.54	205.09
32 31 11 00-0005	EA	Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002) Note: Includes one primary operator with a 14' wide gate capacity.	2,049.01	205.09
32 31 11 00-0006		**Dual Gate, Swing Gate Actuator** *(32 31 11 00-0002)*		
32 31 11 00-0007	EA	Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003) Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.	3,107.10	410.16
32 31 11 00-0008	EA	Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002) Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.	4,098.04	410.16
32 31 11 00-0009		**Swing Gate Operators (DKS™ DoorKing®)** *(32 31 11 00-0001)*		
32 31 11 00-0010		**Single Gate, Swing Gate Operators** *(32 31 11 00-0009)*		
32 31 11 00-0011	EA	400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050) Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.	3,103.46	205.09
32 31 11 00-0012	EA	500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100) Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.	3,370.25	205.09
32 31 11 00-0013	EA	700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500) Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.	4,551.75	205.09
		For 208/230/460 Volt AC, Add	*322.50*	
32 31 11 00-0014	EA	800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500) Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.	5,148.85	205.09
		For 208/230/460 Volt AC, Add	*322.50*	
32 31 11 00-0015		**Dual Gate, Swing Gate Operators** *(32 31 11 00-0009)*		
32 31 11 00-0016	EA	400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050) Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.	5,508.21	410.16
32 31 11 00-0017	EA	500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100) Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.	6,041.79	410.16
32 31 11 00-0018	EA	700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500) Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.	8,392.07	410.16
		For 208/230/460 Volt AC, Add	*322.50*	
32 31 11 00-0019	EA	800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500) Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity.	9,700.61	410.16
		For 208/230/460 Volt AC, Add	*322.50*	
32 31 11 00-0020		**Sliding Gate Operators (DKS™ DoorKing®)** *(32 31 11 00-0001)* Note: Includes 20' of chain. See CSI section 32 31 11 00-0029 for additional chain over 20'.		
32 31 11 00-0021	EA	300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050) Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	1,826.48	205.09
32 31 11 00-0022	EA	1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100) Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	2,552.30	246.10
32 31 11 00-0023	EA	1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150) Note: Includes operator, chain brackets, hardware and 20' of #40 chain.	3,153.16	246.10
32 31 11 00-0024	EA	3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210) Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	4,115.03	287.12
32 31 11 00-0025	EA	2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220) Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	5,042.07	287.12
32 31 11 00-0026	EA	5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230) Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	6,875.20	328.13
32 31 11 00-0027	EA	5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530) Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	11,471.79	328.13
32 31 11 00-0028	EA	10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550) Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	19,433.71	369.15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0029		**Accessories For Gate Actuators And Operators (DKS™ DoorKing®)** *(32 31 11 00-0001)*		
32 31 11 00-0030	EA	Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410)	540.57	
32 31 11 00-0031	EA	Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409)	1,054.45	
32 31 11 00-0032	EA	Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601)	672.24	
32 31 11 00-0033	EA	Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031)	741.57	
32 31 11 00-0034	EA	Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020)	665.34	
32 31 11 00-0035	EA	Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310)	481.13	
32 31 11 00-0036	LF	#40 Chain For Sliding Gate Operators	6.40	
32 31 11 00-0037	LF	#41 Chain For Sliding Gate Operators	5.11	
32 31 11 00-0038	LF	#50 Chain For Sliding Gate Operators	7.11	
32 31 11 00-0039	LF	#60 Chain For Sliding Gate Operators	6.76	
32 31 11 00-0040	EA	Exterior Keypad Gate Operator (Linear AK-11)	537.18	133.57
32 31 11 00-0041		**Sliding Gate Operator (LiftMaster)** *(32 31 11 00-0001)*		
32 31 11 00-0042	EA	Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U)	2,371.62	246.10
		Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL).		
		For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add	*155.50*	
		For Plug-In Loop Detector Option (Liftmaster LOOPDETLM), Add	*111.31*	
		For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add	*54.82*	
		For 10 Watt Solar Panel (Liftmaster SP10W12V), Add	*220.33*	
		For Each Additional 10' Chain, Add	*33.00*	

32 31 13 Chain Link Fences and Gates *(32 31)*

32 31 13 13 Chain Link Fences and Gates *(32 31 13)*

32 31 13 13-0001 Post Holes *(32 31 13 13)*

Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0081 for core drilling in concrete, 02 41 19 13-0219 for core drilling in asphalt.

32 31 13 13-0002		**Auger By Machine Fence Post Hole In Soil** *(32 31 13 13-0001)*		
32 31 13 13-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	9.02	
32 31 13 13-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	10.14	
32 31 13 13-0005	VLF	3" Diameter Hole, Auger By Machine Fence Post Hole In Soil	12.02	
32 31 13 13-0006	VLF	4" Diameter Hole, Auger By Machine Fence Post Hole In Soil	13.52	
32 31 13 13-0007	VLF	6" Diameter Hole, Auger By Machine Fence Post Hole In Soil	14.75	
32 31 13 13-0008	VLF	8" Diameter Hole, Auger By Machine Fence Post Hole In Soil	16.23	
32 31 13 13-0009	VLF	10" Diameter Hole, Auger By Machine Fence Post Hole In Soil	18.02	
32 31 13 13-0010	VLF	12" Diameter Hole, Auger By Machine Fence Post Hole In Soil	20.28	
32 31 13 13-0011	VLF	18" Diameter Hole, Auger By Machine Fence Post Hole In Soil	23.17	
32 31 13 13-0012	VLF	24" Diameter Hole, Auger By Machine Fence Post Hole In Soil	27.04	
32 31 13 13-0013	VLF	30" Diameter Hole, Auger By Machine Fence Post Hole In Soil	32.45	
32 31 13 13-0014	VLF	36" Diameter Hole, Auger By Machine Fence Post Hole In Soil	40.56	
32 31 13 13-0015		**Post Hole In Rock** *(32 31 13 13-0001)*		
32 31 13 13-0016	CF	Jackhammer Post Hole In Rock	67.69	
32 31 13 13-0017	CF	Rock Drill Post Hole In Rock	18.77	
32 31 13 13-0018		**Fill For Post Holes** *(32 31 13 13-0001)*		
32 31 13 13-0019		**Concrete Fill For Post Holes** *(32 31 13 13-0018)*		
32 31 13 13-0020	VLF	Up To 2-1/2" Diameter, Concrete Fill For Post Hole	5.40	
32 31 13 13-0021	VLF	2-1/2" Diameter, Concrete Fill For Post Hole	6.94	
32 31 13 13-0022	VLF	3" Diameter, Concrete Fill For Post Hole	7.64	
32 31 13 13-0023	VLF	4" Diameter, Concrete Fill For Post Hole	8.77	
32 31 13 13-0024	VLF	6" Diameter, Concrete Fill For Post Hole	12.35	
32 31 13 13-0025	VLF	8" Diameter, Concrete Fill For Post Hole	16.50	
32 31 13 13-0026	VLF	10" Diameter, Concrete Fill For Post Hole	20.17	
32 31 13 13-0027	VLF	12" Diameter, Concrete Fill For Post Hole	23.53	
32 31 13 13-0028	VLF	18" Diameter, Concrete Fill For Post Hole	32.02	
32 31 13 13-0029	VLF	24" Diameter, Concrete Fill For Post Hole	39.71	
32 31 13 13-0030	VLF	30" Diameter, Concrete Fill For Post Hole	47.20	
32 31 13 13-0031	VLF	36" Diameter, Concrete Fill For Post Hole	54.98	
32 31 13 13-0032		**Grout Fill For Post Holes** *(32 31 13 13-0018)*		
32 31 13 13-0033	VLF	Up To 2-1/2" Diameter, Grout Fill For Post Hole	6.41	
32 31 13 13-0034	VLF	2-1/2" Diameter, Grout Fill For Post Hole	8.25	
32 31 13 13-0035	VLF	3" Diameter, Grout Fill For Post Hole	8.98	
32 31 13 13-0036	VLF	4" Diameter, Grout Fill For Post Hole	10.09	
32 31 13 13-0037	VLF	6" Diameter, Grout Fill For Post Hole	14.09	
32 31 13 13-0038	VLF	8" Diameter, Grout Fill For Post Hole	18.81	
32 31 13 13-0039	VLF	10" Diameter, Grout Fill For Post Hole	22.92	
32 31 13 13-0040	VLF	12" Diameter, Grout Fill For Post Hole	26.60	
32 31 13 13-0041	VLF	18" Diameter, Grout Fill For Post Hole	35.54	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0042	VLF	24" Diameter, Grout Fill For Post Hole	43.39	
32 31 13 13-0043	VLF	30" Diameter, Grout Fill For Post Hole	51.00	
32 31 13 13-0044	VLF	36" Diameter, Grout Fill For Post Hole	58.78	

32 31 13 13-0045 Compacted Earth Fill For Post Holes *(32 31 13 13-0018)*

32 31 13 13-0046	VLF	Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole	4.56	
32 31 13 13-0047	VLF	2-1/2" Diameter, Compacted Earth Fill For Post Hole	5.94	
32 31 13 13-0048	VLF	3" Diameter, Compacted Earth Fill For Post Hole	6.21	
32 31 13 13-0049	VLF	4" Diameter, Compacted Earth Fill For Post Hole	6.39	
32 31 13 13-0050	VLF	6" Diameter, Compacted Earth Fill For Post Hole	8.54	
32 31 13 13-0051	VLF	8" Diameter, Compacted Earth Fill For Post Hole	11.39	
32 31 13 13-0052	VLF	10" Diameter, Compacted Earth Fill For Post Hole	13.67	
32 31 13 13-0053	VLF	12" Diameter, Compacted Earth Fill For Post Hole	15.50	
32 31 13 13-0054	VLF	18" Diameter, Compacted Earth Fill For Post Hole	18.89	
32 31 13 13-0055	VLF	24" Diameter, Compacted Earth Fill For Post Hole	21.19	
32 31 13 13-0056	VLF	30" Diameter, Compacted Earth Fill For Post Hole	23.24	
32 31 13 13-0057	VLF	36" Diameter, Compacted Earth Fill For Post Hole	25.07	

32 31 13 13-0058 Fence Posts *(32 31 13 13)*

Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.

32 31 13 13-0059 Fence Posts *(32 31 13 13-0058)*

32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel *(32 31 13 13-0059)*

Note: Includes cap and accessories.

32 31 13 13-0061	LF	1-7/8" Galvanized H-beam Post, Up To 6' In Length	14.97	2.66
		For Each Top Rail Fitting, Add	*0.85*	
32 31 13 13-0062	LF	1-7/8" Galvanized H-beam Post, 7' To 10' In Length	14.21	2.28
		For Each Top Rail Fitting, Add	*0.85*	
32 31 13 13-0063	LF	1-7/8" Galvanized H-beam Post, 11' To 15' In Length	13.29	1.88
		For Each Top Rail Fitting, Add	*0.85*	
32 31 13 13-0064	LF	1-7/8" Galvanized H-beam Post, 16' To 20' In Length	12.54	1.49
		For Each Top Rail Fitting, Add	*0.85*	
32 31 13 13-0065	LF	1-7/8" Galvanized H-beam Post, 21' To 24' In Length	12.05	1.29
		For Each Top Rail Fitting, Add	*0.85*	
32 31 13 13-0066	LF	1-7/8" Galvanized H-beam Post, >24' In Length	11.28	0.89
		For Each Top Rail Fitting, Add	*0.85*	

32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) *(32 31 13 13-0059)*

Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.

32 31 13 13-0068	LF	Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	10.30	2.47
		For Each Top Rail Fitting, Add	*0.85*	
		For Each Single Barbed Wire Arm, Add	*1.90*	
		For Each Double Barbed Wire Arm, Add	*3.40*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.34*	
		For Vinyl Coated, Add	*3.22*	
		For Powder Coated, Add	*4.29*	
		For Aluminum Coated, Add	*6.70*	
		For Schedule 20, Deduct	*-1.07*	
		For Schedule 80, Add	*3.07*	
32 31 13 13-0069	LF	7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	9.53	2.08
		For Each Top Rail Fitting, Add	*0.85*	
		For Each Single Barbed Wire Arm, Add	*1.90*	
		For Each Double Barbed Wire Arm, Add	*3.40*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.34*	
		For Vinyl Coated, Add	*3.22*	
		For Powder Coated, Add	*4.29*	
		For Aluminum Coated, Add	*6.70*	
		For Schedule 20, Deduct	*-1.07*	
		For Schedule 80, Add	*2.99*	
32 31 13 13-0070	LF	11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	8.69	1.68
		For Each Top Rail Fitting, Add	*0.85*	
		For Each Single Barbed Wire Arm, Add	*1.90*	
		For Each Double Barbed Wire Arm, Add	*3.40*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.34*	
		For Vinyl Coated, Add	*3.22*	
		For Powder Coated, Add	*4.29*	
		For Aluminum Coated, Add	*6.70*	
		For Schedule 20, Deduct	*-1.07*	
		For Schedule 80, Add	*2.91*	
32 31 13 13-0071	LF	16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	8.03	1.29
		For Each Top Rail Fitting, Add	*0.85*	
		For Each Single Barbed Wire Arm, Add	*1.90*	
		For Each Double Barbed Wire Arm, Add	*3.40*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.34*	
		For Vinyl Coated, Add	*3.22*	
		For Powder Coated, Add	*4.29*	
		For Aluminum Coated, Add	*6.70*	
		For Schedule 20, Deduct	*-1.07*	
		For Schedule 80, Add	*2.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0072	LF	21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	7.59	1.09
		For Each Top Rail Fitting, Add	*0.85*	
		For Each Single Barbed Wire Arm, Add	*1.90*	
		For Each Double Barbed Wire Arm, Add	*3.40*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.34*	
		For Vinyl Coated, Add	*3.22*	
		For Powder Coated, Add	*4.29*	
		For Aluminum Coated, Add	*6.70*	
		For Schedule 20, Deduct	*-1.07*	
		For Schedule 80, Add	*2.80*	
32 31 13 13-0073	LF	>24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	7.10	0.89
		For Each Top Rail Fitting, Add	*0.85*	
		For Each Single Barbed Wire Arm, Add	*1.90*	
		For Each Double Barbed Wire Arm, Add	*3.40*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.34*	
		For Vinyl Coated, Add	*3.22*	
		For Powder Coated, Add	*4.29*	
		For Aluminum Coated, Add	*6.70*	
		For Schedule 20, Deduct	*-1.07*	
		For Schedule 80, Add	*2.75*	

32 31 13 13-0074 Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) *(32 31 13 13-0059)*

Note: 2" outside diameter, Schedule 40. Includes cap and accessories.

32 31 13 13-0075	LF	2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	11.67	2.57
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.64*	
		For Vinyl Coated, Add	*3.93*	
		For Powder Coated, Add	*5.24*	
		For Aluminum Coated, Add	*8.19*	
		For Schedule 20, Deduct	*-1.31*	
		For Schedule 80, Add	*3.66*	
32 31 13 13-0076	LF	2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	10.98	2.18
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.64*	
		For Vinyl Coated, Add	*3.93*	
		For Powder Coated, Add	*5.24*	
		For Aluminum Coated, Add	*8.19*	
		For Schedule 20, Deduct	*-1.31*	
		For Schedule 80, Add	*3.59*	
32 31 13 13-0077	LF	2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	10.08	1.78
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.64*	
		For Vinyl Coated, Add	*3.93*	
		For Powder Coated, Add	*5.24*	
		For Aluminum Coated, Add	*8.19*	
		For Schedule 20, Deduct	*-1.31*	
		For Schedule 80, Add	*3.50*	
32 31 13 13-0078	LF	2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	9.37	1.39
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.64*	
		For Vinyl Coated, Add	*3.93*	
		For Powder Coated, Add	*5.24*	
		For Aluminum Coated, Add	*8.19*	
		For Schedule 20, Deduct	*-1.31*	
		For Schedule 80, Add	*3.43*	
32 31 13 13-0079	LF	2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	8.90	1.19
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.64*	
		For Vinyl Coated, Add	*3.93*	
		For Powder Coated, Add	*5.24*	
		For Aluminum Coated, Add	*8.19*	
		For Schedule 20, Deduct	*-1.31*	
		For Schedule 80, Add	*3.38*	
32 31 13 13-0080	LF	2" Outside Diameter Galvanized Steel Post, >24' In Length	8.46	0.99
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*1.64*	
		For Vinyl Coated, Add	*3.93*	
		For Powder Coated, Add	*5.24*	
		For Aluminum Coated, Add	*8.19*	
		For Schedule 20, Deduct	*-1.31*	
		For Schedule 80, Add	*3.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0081		**Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal)** *(32 31 13 13-0059)*		
		Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082	LF	2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	14.09	2.76
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*2.18*	
		For Vinyl Coated, Add	*5.22*	
		For Powder Coated, Add	*6.96*	
		For Aluminum Coated, Add	*10.88*	
		For Schedule 20, Deduct	*-1.74*	
		For Schedule 80, Add	*4.72*	
32 31 13 13-0083	LF	2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	13.33	2.38
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*2.18*	
		For Vinyl Coated, Add	*5.22*	
		For Powder Coated, Add	*6.96*	
		For Aluminum Coated, Add	*10.88*	
		For Schedule 20, Deduct	*-1.74*	
		For Schedule 80, Add	*4.64*	
32 31 13 13-0084	LF	2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	12.41	1.88
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*2.18*	
		For Vinyl Coated, Add	*5.22*	
		For Powder Coated, Add	*6.96*	
		For Aluminum Coated, Add	*10.88*	
		For Schedule 20, Deduct	*-1.74*	
		For Schedule 80, Add	*4.55*	
32 31 13 13-0085	LF	2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	11.66	1.49
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*2.18*	
		For Vinyl Coated, Add	*5.22*	
		For Powder Coated, Add	*6.96*	
		For Aluminum Coated, Add	*10.88*	
		For Schedule 20, Deduct	*-1.74*	
		For Schedule 80, Add	*4.47*	
32 31 13 13-0086	LF	2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length	11.17	1.29
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*2.18*	
		For Vinyl Coated, Add	*5.22*	
		For Powder Coated, Add	*6.96*	
		For Aluminum Coated, Add	*10.88*	
		For Schedule 20, Deduct	*-1.74*	
		For Schedule 80, Add	*4.42*	
32 31 13 13-0087	LF	2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length	10.71	0.99
		For Each Top Rail Fitting, Add	*1.35*	
		For Each Single Barbed Wire Arm, Add	*2.65*	
		For Each Double Barbed Wire Arm, Add	*4.88*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*2.18*	
		For Vinyl Coated, Add	*5.22*	
		For Powder Coated, Add	*6.96*	
		For Aluminum Coated, Add	*10.88*	
		For Schedule 20, Deduct	*-1.74*	
		For Schedule 80, Add	*4.38*	
32 31 13 13-0088		**Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal)** *(32 31 13 13-0059)*		
		Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089	LF	3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	18.94	2.96
		For Each Top Rail Fitting, Add	*1.85*	
		For Each Single Barbed Wire Arm, Add	*3.85*	
		For Each Double Barbed Wire Arm, Add	*7.05*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*3.25*	
		For Vinyl Coated, Add	*7.81*	
		For Powder Coated, Add	*10.41*	
		For Aluminum Coated, Add	*16.26*	
		For Schedule 20, Deduct	*-2.60*	
		For Schedule 80, Add	*6.84*	
32 31 13 13-0090	LF	3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	18.13	2.57
		For Each Top Rail Fitting, Add	*1.85*	
		For Each Single Barbed Wire Arm, Add	*3.85*	
		For Each Double Barbed Wire Arm, Add	*7.05*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*3.25*	
		For Vinyl Coated, Add	*7.81*	
		For Powder Coated, Add	*10.41*	
		For Aluminum Coated, Add	*16.26*	
		For Schedule 20, Deduct	*-2.60*	
		For Schedule 80, Add	*6.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0091	LF	3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	17.13	2.08
		For Each Top Rail Fitting, Add	*1.85*	
		For Each Single Barbed Wire Arm, Add	*3.85*	
		For Each Double Barbed Wire Arm, Add	*7.05*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*3.25*	
		For Vinyl Coated, Add	*7.81*	
		For Powder Coated, Add	*10.41*	
		For Aluminum Coated, Add	*16.26*	
		For Schedule 20, Deduct	*-2.60*	
		For Schedule 80, Add	*6.66*	
32 31 13 13-0092	LF	3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	16.31	1.68
		For Each Top Rail Fitting, Add	*1.85*	
		For Each Single Barbed Wire Arm, Add	*3.85*	
		For Each Double Barbed Wire Arm, Add	*7.05*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*3.25*	
		For Vinyl Coated, Add	*7.81*	
		For Powder Coated, Add	*10.41*	
		For Aluminum Coated, Add	*16.26*	
		For Schedule 20, Deduct	*-2.60*	
		For Schedule 80, Add	*6.57*	
32 31 13 13-0093	LF	3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	15.75	1.39
		For Each Top Rail Fitting, Add	*1.85*	
		For Each Single Barbed Wire Arm, Add	*3.85*	
		For Each Double Barbed Wire Arm, Add	*7.05*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*3.25*	
		For Vinyl Coated, Add	*7.81*	
		For Powder Coated, Add	*10.41*	
		For Aluminum Coated, Add	*16.26*	
		For Schedule 20, Deduct	*-2.60*	
		For Schedule 80, Add	*6.52*	
32 31 13 13-0094	LF	3" Outside Diameter Galvanized Steel Post, >24' In Length	15.24	1.09
		For Each Top Rail Fitting, Add	*1.85*	
		For Each Single Barbed Wire Arm, Add	*3.85*	
		For Each Double Barbed Wire Arm, Add	*7.05*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*3.25*	
		For Vinyl Coated, Add	*7.81*	
		For Powder Coated, Add	*10.41*	
		For Aluminum Coated, Add	*16.26*	
		For Schedule 20, Deduct	*-2.60*	
		For Schedule 80, Add	*6.47*	

32 31 13 13-0095 Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) *(32 31 13 13-0059)*

Note: 4" outside diameter, Schedule 40. Includes cap and accessories.

32 31 13 13-0096	LF	4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	27.38	3.16
		For Each Top Rail Fitting, Add	*2.60*	
		For Each Single Barbed Wire Arm, Add	*5.10*	
		For Each Double Barbed Wire Arm, Add	*11.25*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*5.29*	
		For Vinyl Coated, Add	*12.68*	
		For Powder Coated, Add	*16.91*	
		For Aluminum Coated, Add	*26.43*	
		For Schedule 20, Deduct	*-4.23*	
		For Schedule 80, Add	*10.77*	
32 31 13 13-0097	LF	4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	26.35	2.57
		For Each Top Rail Fitting, Add	*2.60*	
		For Each Single Barbed Wire Arm, Add	*5.10*	
		For Each Double Barbed Wire Arm, Add	*11.25*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*5.29*	
		For Vinyl Coated, Add	*12.68*	
		For Powder Coated, Add	*16.91*	
		For Aluminum Coated, Add	*26.43*	
		For Schedule 20, Deduct	*-4.23*	
		For Schedule 80, Add	*10.67*	
32 31 13 13-0098	LF	4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	25.48	2.18
		For Each Top Rail Fitting, Add	*2.60*	
		For Each Single Barbed Wire Arm, Add	*5.10*	
		For Each Double Barbed Wire Arm, Add	*11.25*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*5.29*	
		For Vinyl Coated, Add	*12.68*	
		For Powder Coated, Add	*16.91*	
		For Aluminum Coated, Add	*26.43*	
		For Schedule 20, Deduct	*-4.23*	
		For Schedule 80, Add	*10.58*	
32 31 13 13-0099	LF	4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	24.61	1.78
		For Each Top Rail Fitting, Add	*2.60*	
		For Each Single Barbed Wire Arm, Add	*5.10*	
		For Each Double Barbed Wire Arm, Add	*11.25*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*5.29*	
		For Vinyl Coated, Add	*12.68*	
		For Powder Coated, Add	*16.91*	
		For Aluminum Coated, Add	*26.43*	
		For Schedule 20, Deduct	*-4.23*	
		For Schedule 80, Add	*10.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0100	LF	4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	24.60	1.78
		For Each Top Rail Fitting, Add	*2.60*	
		For Each Single Barbed Wire Arm, Add	*5.10*	
		For Each Double Barbed Wire Arm, Add	*11.25*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*5.29*	
		For Vinyl Coated, Add	*12.68*	
		For Powder Coated, Add	*16.91*	
		For Aluminum Coated, Add	*26.43*	
		For Schedule 20, Deduct	*-4.23*	
		For Schedule 80, Add	*10.49*	
32 31 13 13-0101	LF	4" Outside Diameter Galvanized Steel Post, >24' In Length	23.61	1.29
		For Each Top Rail Fitting, Add	*2.60*	
		For Each Single Barbed Wire Arm, Add	*5.10*	
		For Each Double Barbed Wire Arm, Add	*11.25*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*5.29*	
		For Vinyl Coated, Add	*12.68*	
		For Powder Coated, Add	*16.91*	
		For Aluminum Coated, Add	*26.43*	
		For Schedule 20, Deduct	*-4.23*	
		For Schedule 80, Add	*10.39*	

32 31 13 13-0102 Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) *(32 31 13 13-0059)*

Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.

32 31 13 13-0103	LF	6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	51.76	3.46
		For Each Top Rail Fitting, Add	*4.55*	
		For Each Single Barbed Wire Arm, Add	*7.15*	
		For Each Double Barbed Wire Arm, Add	*14.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*11.21*	
		For Vinyl Coated, Add	*26.89*	
		For Powder Coated, Add	*35.86*	
		For Aluminum Coated, Add	*56.03*	
		For Schedule 20, Deduct	*-8.96*	
		For Schedule 80, Add	*22.21*	
32 31 13 13-0104	LF	6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	50.64	2.86
		For Each Top Rail Fitting, Add	*4.55*	
		For Each Single Barbed Wire Arm, Add	*7.15*	
		For Each Double Barbed Wire Arm, Add	*14.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*11.21*	
		For Vinyl Coated, Add	*26.89*	
		For Powder Coated, Add	*35.86*	
		For Aluminum Coated, Add	*56.03*	
		For Schedule 20, Deduct	*-8.96*	
		For Schedule 80, Add	*22.10*	
32 31 13 13-0105	LF	6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	49.64	2.38
		For Each Top Rail Fitting, Add	*4.55*	
		For Each Single Barbed Wire Arm, Add	*7.15*	
		For Each Double Barbed Wire Arm, Add	*14.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*11.21*	
		For Vinyl Coated, Add	*26.89*	
		For Powder Coated, Add	*35.86*	
		For Aluminum Coated, Add	*56.03*	
		For Schedule 20, Deduct	*-8.96*	
		For Schedule 80, Add	*22.00*	
32 31 13 13-0106	LF	6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	48.67	1.88
		For Each Top Rail Fitting, Add	*4.55*	
		For Each Single Barbed Wire Arm, Add	*7.15*	
		For Each Double Barbed Wire Arm, Add	*14.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*11.21*	
		For Vinyl Coated, Add	*26.89*	
		For Powder Coated, Add	*35.86*	
		For Aluminum Coated, Add	*56.03*	
		For Schedule 20, Deduct	*-8.96*	
		For Schedule 80, Add	*21.90*	
32 31 13 13-0107	LF	6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	48.12	1.68
		For Each Top Rail Fitting, Add	*4.55*	
		For Each Single Barbed Wire Arm, Add	*7.15*	
		For Each Double Barbed Wire Arm, Add	*14.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*11.21*	
		For Vinyl Coated, Add	*26.89*	
		For Powder Coated, Add	*35.86*	
		For Aluminum Coated, Add	*56.03*	
		For Schedule 20, Deduct	*-8.96*	
		For Schedule 80, Add	*21.84*	
32 31 13 13-0108	LF	6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	47.56	1.39
		For Each Top Rail Fitting, Add	*4.55*	
		For Each Single Barbed Wire Arm, Add	*7.15*	
		For Each Double Barbed Wire Arm, Add	*14.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*11.21*	
		For Vinyl Coated, Add	*26.89*	
		For Powder Coated, Add	*35.86*	
		For Aluminum Coated, Add	*56.03*	
		For Schedule 20, Deduct	*-8.96*	
		For Schedule 80, Add	*21.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0109		**Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal)** *(32 31 13 13-0059)*		
		Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0110	LF	8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	99.55	3.85
		For Each Top Rail Fitting, Add	*7.50*	
		For Each Single Barbed Wire Arm, Add	*9.15*	
		For Each Double Barbed Wire Arm, Add	*18.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*22.96*	
		For Vinyl Coated, Add	*55.11*	
		For Powder Coated, Add	*73.48*	
		For Aluminum Coated, Add	*114.81*	
		For Schedule 20, Deduct	*-18.37*	
		For Schedule 80, Add	*44.86*	
32 31 13 13-0111	LF	8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	98.30	3.26
		For Each Top Rail Fitting, Add	*7.50*	
		For Each Single Barbed Wire Arm, Add	*9.15*	
		For Each Double Barbed Wire Arm, Add	*18.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*22.96*	
		For Vinyl Coated, Add	*55.11*	
		For Powder Coated, Add	*73.48*	
		For Aluminum Coated, Add	*114.81*	
		For Schedule 20, Deduct	*-18.37*	
		For Schedule 80, Add	*44.73*	
32 31 13 13-0112	LF	8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	97.19	2.66
		For Each Top Rail Fitting, Add	*7.50*	
		For Each Single Barbed Wire Arm, Add	*9.15*	
		For Each Double Barbed Wire Arm, Add	*18.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*22.96*	
		For Vinyl Coated, Add	*55.11*	
		For Powder Coated, Add	*73.48*	
		For Aluminum Coated, Add	*114.81*	
		For Schedule 20, Deduct	*-18.37*	
		For Schedule 80, Add	*44.62*	
32 31 13 13-0113	LF	8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	96.09	2.08
		For Each Top Rail Fitting, Add	*7.50*	
		For Each Single Barbed Wire Arm, Add	*9.15*	
		For Each Double Barbed Wire Arm, Add	*18.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*22.96*	
		For Vinyl Coated, Add	*55.11*	
		For Powder Coated, Add	*73.48*	
		For Aluminum Coated, Add	*114.81*	
		For Schedule 20, Deduct	*-18.37*	
		For Schedule 80, Add	*44.51*	
32 31 13 13-0114	LF	8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	95.51	1.78
		For Each Top Rail Fitting, Add	*7.50*	
		For Each Single Barbed Wire Arm, Add	*9.15*	
		For Each Double Barbed Wire Arm, Add	*18.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*22.96*	
		For Vinyl Coated, Add	*55.11*	
		For Powder Coated, Add	*73.48*	
		For Aluminum Coated, Add	*114.81*	
		For Schedule 20, Deduct	*-18.37*	
		For Schedule 80, Add	*44.45*	
32 31 13 13-0115	LF	8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	94.90	1.49
		For Each Top Rail Fitting, Add	*7.50*	
		For Each Single Barbed Wire Arm, Add	*9.15*	
		For Each Double Barbed Wire Arm, Add	*18.95*	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	*22.96*	
		For Vinyl Coated, Add	*55.11*	
		For Powder Coated, Add	*73.48*	
		For Aluminum Coated, Add	*114.81*	
		For Schedule 20, Deduct	*-18.37*	
		For Schedule 80, Add	*44.39*	
32 31 13 13-0116		**Driven Post Supports** *(32 31 13 13)*		
		Note: OZ-Post.		
32 31 13 13-0117		**Driven Post Support For Round Chain Link Fence Posts** *(32 31 13 13-0116)*		
32 31 13 13-0118	EA	26" Driven Post Support For 1-5/8" Round Chain Link Fence Post	57.55	
		Note: OZ-Post GB-700.		
32 31 13 13-0119	EA	26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post	57.55	
		Note: OZ-Post HB-700.		
32 31 13 13-0120	EA	26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post	58.88	
		Note: OZ-Post IS-600.		
32 31 13 13-0121	EA	32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post	71.01	
		Note: OZ-Post ISW-850.		
32 31 13 13-0122		**Driven Post Support For Square Ornamental Fence Posts** *(32 31 13 13-0116)*		
32 31 13 13-0123	EA	34" Driven Post Support For 1-3/4" Square Ornamental Fence Post	67.00	
		Note: OZ-Post C175-850.		
32 31 13 13-0124	EA	24" Driven Post Support For 2" Square Ornamental Fence Post	65.00	
		Note: OZ-Post I2-600.		
32 31 13 13-0125	EA	34" Driven Post Support For 2" Square Ornamental Fence Post	67.40	
		Note: OZ-Post I2-850.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0126	EA	34" Driven Post Support For 2-1/2" Square Ornamental Fence Post Note: OZ-Post I25-850.	71.01	
32 31 13 13-0127	EA	34" Driven Post Support For 3" Square Ornamental Fence Post Note: OZ-Post I3-850.	71.01	

32 31 13 13-0128 Driven Post Support For Wooden Fence Posts *(32 31 13 13-0116)*

32 31 13 13-0129	EA	24" Driven Post Support For 3-1/2" Square Wooden Fence Post Note: OZ-Post T4-600.	64.66	
32 31 13 13-0130	EA	34" Driven Post Support For 3-1/2" Square Wooden Fence Post Note: OZ-Post T4-850.	69.00	
32 31 13 13-0131	EA	34" Driven Post Support For 3-3/4" Square Wooden Fence Post Note: OZ-Post C4-850.	73.67	
32 31 13 13-0132	EA	34" Driven Post Support For 4" Square Wooden Fence Post Note: OZ-Post P4-850.	73.68	
32 31 13 13-0133	EA	36" Driven Post Support For 4" x 6" Wooden Fence Post Note: OZ-Post T46-850.	82.36	
32 31 13 13-0134	EA	36" Driven Post Support For 6" Square Wooden Fence Post Note: OZ-Post T6-850.	88.49	

32 31 13 13-0135 Driven Post Support For Vinyl Fence Posts *(32 31 13 13-0116)*

32 31 13 13-0136	EA	24" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-600.	64.66	
32 31 13 13-0137	EA	34" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-850.	69.00	
32 31 13 13-0138	EA	34" Driven Post Support For 4" Square Vinyl Fence Post Note: OZ-Post P4-850.	73.68	
32 31 13 13-0139	EA	34" Driven Post Support For 5" Square Vinyl Fence Post Note: OZ-Post P4-850.	74.74	

32 31 13 13-0140 Chain Link Fence Assemblies *(32 31 13 13)*

32 31 13 13-0141 Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts *(32 31 13 13-0140)*

Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0697 for barb wire attachments.

32 31 13 13-0142 Galvanized *(32 31 13 13-0141)*

32 31 13 13-0143	LF	3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	30.10	3.36
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.16*	
		For 13 Gauge Fabric, Deduct	*-5.89*	
		For 11 Gauge Fabric, Deduct	*-3.44*	
		For 6 Gauge Fabric, Add	*5.40*	
		For 1" Mesh Fabric, Add	*7.37*	
		For 1-3/4" Mesh Fabric, Add	*2.95*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.47*	
		For 2-3/8" Mesh Fabric, Deduct	*-1.97*	
		For Posts 8' On Centers, Add	*1.66*	
		For Posts 5' On Centers, Add	*6.27*	
		For Up To 100, Add	*5.83*	
		For >100 To 250, Add	*2.16*	
		For >2,500 To 5,000, Deduct	*-1.08*	
		For >5,000, Deduct	*-2.16*	
32 31 13 13-0144	LF	3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	31.32	3.36
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.24*	
		For 13 Gauge Fabric, Deduct	*-6.23*	
		For 11 Gauge Fabric, Deduct	*-3.64*	
		For 6 Gauge Fabric, Add	*5.72*	
		For 1" Mesh Fabric, Add	*7.80*	
		For 1-3/4" Mesh Fabric, Add	*3.12*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.56*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.08*	
		For Posts 8' On Centers, Add	*1.73*	
		For Posts 5' On Centers, Add	*6.51*	
		For Up To 100, Add	*6.04*	
		For >100 To 250, Add	*2.24*	
		For >2,500 To 5,000, Deduct	*-1.12*	
		For >5,000, Deduct	*-2.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0145	LF	4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	32.37	3.36
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.30*	
		For 13 Gauge Fabric, Deduct	*-6.53*	
		For 11 Gauge Fabric, Deduct	*-3.81*	
		For 6 Gauge Fabric, Add	*5.99*	
		For 1" Mesh Fabric, Add	*8.17*	
		For 1-3/4" Mesh Fabric, Add	*3.27*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.63*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.18*	
		For Posts 8' On Centers, Add	*1.78*	
		For Posts 5' On Centers, Add	*6.71*	
		For Up To 100, Add	*6.21*	
		For >100 To 250, Add	*2.30*	
		For >2,500 To 5,000, Deduct	*-1.15*	
		For >5,000, Deduct	*-2.30*	
32 31 13 13-0146	LF	5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	34.83	3.36
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.44*	
		For 13 Gauge Fabric, Deduct	*-7.23*	
		For 11 Gauge Fabric, Deduct	*-4.22*	
		For 6 Gauge Fabric, Add	*6.64*	
		For 1" Mesh Fabric, Add	*9.05*	
		For 1-3/4" Mesh Fabric, Add	*3.62*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.81*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.41*	
		For Posts 8' On Centers, Add	*1.91*	
		For Posts 5' On Centers, Add	*7.18*	
		For Up To 100, Add	*6.63*	
		For >100 To 250, Add	*2.44*	
		For >2,500 To 5,000, Deduct	*-1.22*	
		For >5,000, Deduct	*-2.44*	
32 31 13 13-0147	LF	6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	37.79	3.36
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.64*	
		For 13 Gauge Fabric, Deduct	*-7.94*	
		For 11 Gauge Fabric, Deduct	*-4.64*	
		For 6 Gauge Fabric, Add	*7.29*	
		For 1" Mesh Fabric, Add	*9.94*	
		For 1-3/4" Mesh Fabric, Add	*3.98*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.99*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.65*	
		For Posts 8' On Centers, Add	*2.07*	
		For Posts 5' On Centers, Add	*7.77*	
		For Up To 100, Add	*7.16*	
		For >100 To 250, Add	*2.64*	
		For >2,500 To 5,000, Deduct	*-1.32*	
		For >5,000, Deduct	*-2.64*	
32 31 13 13-0148	LF	7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	39.34	5.04
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.74*	
		For 13 Gauge Fabric, Deduct	*-8.29*	
		For 11 Gauge Fabric, Deduct	*-4.84*	
		For 6 Gauge Fabric, Add	*7.61*	
		For 1" Mesh Fabric, Add	*10.37*	
		For 1-3/4" Mesh Fabric, Add	*4.15*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.07*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.77*	
		For Posts 8' On Centers, Add	*2.15*	
		For Posts 5' On Centers, Add	*8.09*	
		For Up To 100, Add	*7.45*	
		For >100 To 250, Add	*2.74*	
		For >2,500 To 5,000, Deduct	*-1.37*	
		For >5,000, Deduct	*-2.74*	
32 31 13 13-0149	LF	8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	44.48	5.88
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*3.05*	
		For 13 Gauge Fabric, Deduct	*-9.73*	
		For 11 Gauge Fabric, Deduct	*-5.68*	
		For 6 Gauge Fabric, Add	*8.93*	
		For 1" Mesh Fabric, Add	*12.18*	
		For 1-3/4" Mesh Fabric, Add	*4.87*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.44*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.25*	
		For Posts 8' On Centers, Add	*2.42*	
		For Posts 5' On Centers, Add	*9.08*	
		For Up To 100, Add	*8.32*	
		For >100 To 250, Add	*3.05*	
		For >2,500 To 5,000, Deduct	*-1.52*	
		For >5,000, Deduct	*-3.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0150	LF	9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	47.51	7.56
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*3.24*	
		For 13 Gauge Fabric, Deduct	*-10.50*	
		For 11 Gauge Fabric, Deduct	*-6.14*	
		For 6 Gauge Fabric, Add	*9.64*	
		For 1" Mesh Fabric, Add	*13.15*	
		For 1-3/4" Mesh Fabric, Add	*5.26*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.63*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.51*	
		For Posts 8' On Centers, Add	*2.58*	
		For Posts 5' On Centers, Add	*9.68*	
		For Up To 100, Add	*8.85*	
		For >100 To 250, Add	*3.24*	
		For >2,500 To 5,000, Deduct	*-1.62*	
		For >5,000, Deduct	*-3.24*	
32 31 13 13-0151	LF	10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	50.54	8.40
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*3.43*	
		For 13 Gauge Fabric, Deduct	*-11.28*	
		For 11 Gauge Fabric, Deduct	*-6.59*	
		For 6 Gauge Fabric, Add	*10.36*	
		For 1" Mesh Fabric, Add	*14.12*	
		For 1-3/4" Mesh Fabric, Add	*5.65*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.82*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.77*	
		For Posts 8' On Centers, Add	*2.74*	
		For Posts 5' On Centers, Add	*10.27*	
		For Up To 100, Add	*9.39*	
		For >100 To 250, Add	*3.43*	
		For >2,500 To 5,000, Deduct	*-1.72*	
		For >5,000, Deduct	*-3.43*	
32 31 13 13-0152	LF	12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	56.19	10.08
		For Each Additional Foot >12, Add	*3.71*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*3.79*	
		For 13 Gauge Fabric, Deduct	*-12.72*	
		For 11 Gauge Fabric, Deduct	*-7.43*	
		For 6 Gauge Fabric, Add	*11.68*	
		For 1" Mesh Fabric, Add	*15.93*	
		For 1-3/4" Mesh Fabric, Add	*6.37*	
		For 2-1/8" Mesh Fabric, Deduct	*-3.19*	
		For 2-3/8" Mesh Fabric, Deduct	*-4.25*	
		For Posts 8' On Centers, Add	*3.04*	
		For Posts 5' On Centers, Add	*11.39*	
		For Up To 100, Add	*10.39*	
		For >100 To 250, Add	*3.79*	
		For >2,500 To 5,000, Deduct	*-1.89*	
		For >5,000, Deduct	*-3.79*	

32 31 13 13-0153 Vinyl Coated *(32 31 13 13-0141)*

32 31 13 13-0154	LF	4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	33.64	3.36
		For Powder Coated Framework (Posts, Rails, Hardware), Add	*3.01*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.36*	
		For 13 Gauge Fabric, Deduct	*-6.97*	
		For 11 Gauge Fabric, Deduct	*-4.07*	
		For 6 Gauge Fabric, Add	*6.40*	
		For 1" Mesh Fabric, Add	*8.72*	
		For 1-3/4" Mesh Fabric, Add	*3.49*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.74*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.33*	
		For Posts 8' On Centers, Add	*1.85*	
		For Posts 5' On Centers, Add	*6.94*	
		For Up To 100, Add	*6.41*	
		For >100 To 250, Add	*2.36*	
		For >2,500 To 5,000, Deduct	*-1.18*	
		For >5,000, Deduct	*-2.36*	
32 31 13 13-0155	LF	5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	36.43	3.36
		For Powder Coated Framework (Posts, Rails, Hardware), Add	*3.36*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.52*	
		For 13 Gauge Fabric, Deduct	*-7.79*	
		For 11 Gauge Fabric, Deduct	*-4.55*	
		For 6 Gauge Fabric, Add	*7.15*	
		For 1" Mesh Fabric, Add	*9.75*	
		For 1-3/4" Mesh Fabric, Add	*3.90*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.95*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.60*	
		For Posts 8' On Centers, Add	*1.99*	
		For Posts 5' On Centers, Add	*7.47*	
		For Up To 100, Add	*6.87*	
		For >100 To 250, Add	*2.52*	
		For >2,500 To 5,000, Deduct	*-1.26*	
		For >5,000, Deduct	*-2.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0156	LF	6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	41.04	3.36
		For Powder Coated Framework (Posts, Rails, Hardware), Add	*3.92*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.80*	
		For 13 Gauge Fabric, Deduct	*-9.07*	
		For 11 Gauge Fabric, Deduct	*-5.30*	
		For 6 Gauge Fabric, Add	*8.33*	
		For 1" Mesh Fabric, Add	*11.36*	
		For 1-3/4" Mesh Fabric, Add	*4.54*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.27*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.03*	
		For Posts 8' On Centers, Add	*2.23*	
		For Posts 5' On Centers, Add	*8.36*	
		For Up To 100, Add	*7.65*	
		For >100 To 250, Add	*2.80*	
		For >2,500 To 5,000, Deduct	*-1.40*	
		For >5,000, Deduct	*-2.80*	
32 31 13 13-0157	LF	7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	43.12	5.04
		For Powder Coated Framework (Posts, Rails, Hardware), Add	*4.14*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*2.93*	
		For 13 Gauge Fabric, Deduct	*-9.60*	
		For 11 Gauge Fabric, Deduct	*-5.61*	
		For 6 Gauge Fabric, Add	*8.81*	
		For 1" Mesh Fabric, Add	*12.02*	
		For 1-3/4" Mesh Fabric, Add	*4.81*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.40*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.21*	
		For Posts 8' On Centers, Add	*2.34*	
		For Posts 5' On Centers, Add	*8.77*	
		For Up To 100, Add	*8.02*	
		For >100 To 250, Add	*2.93*	
		For >2,500 To 5,000, Deduct	*-1.47*	
		For >5,000, Deduct	*-2.93*	
32 31 13 13-0158	LF	8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	48.88	5.88
		For Powder Coated Framework (Posts, Rails, Hardware), Add	*4.86*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*3.27*	
		For 13 Gauge Fabric, Deduct	*-11.26*	
		For 11 Gauge Fabric, Deduct	*-6.58*	
		For 6 Gauge Fabric, Add	*10.33*	
		For 1" Mesh Fabric, Add	*14.09*	
		For 1-3/4" Mesh Fabric, Add	*5.64*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.82*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.76*	
		For Posts 8' On Centers, Add	*2.64*	
		For Posts 5' On Centers, Add	*9.87*	
		For Up To 100, Add	*8.98*	
		For >100 To 250, Add	*3.27*	
		For >2,500 To 5,000, Deduct	*-1.63*	
		For >5,000, Deduct	*-3.27*	
32 31 13 13-0159	LF	9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	52.23	7.56
		For Powder Coated Framework (Posts, Rails, Hardware), Add	*5.24*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*3.48*	
		For 13 Gauge Fabric, Deduct	*-12.15*	
		For 11 Gauge Fabric, Deduct	*-7.09*	
		For 6 Gauge Fabric, Add	*11.15*	
		For 1" Mesh Fabric, Add	*15.20*	
		For 1-3/4" Mesh Fabric, Add	*6.08*	
		For 2-1/8" Mesh Fabric, Deduct	*-3.04*	
		For 2-3/8" Mesh Fabric, Deduct	*-4.05*	
		For Posts 8' On Centers, Add	*2.82*	
		For Posts 5' On Centers, Add	*10.52*	
		For Up To 100, Add	*9.56*	
		For >100 To 250, Add	*3.48*	
		For >2,500 To 5,000, Deduct	*-1.74*	
		For >5,000, Deduct	*-3.48*	
32 31 13 13-0160	LF	10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	55.58	8.40
		For Powder Coated Framework (Posts, Rails, Hardware), Add	*5.63*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*3.68*	
		For 13 Gauge Fabric, Deduct	*-13.03*	
		For 11 Gauge Fabric, Deduct	*-7.61*	
		For 6 Gauge Fabric, Add	*11.97*	
		For 1" Mesh Fabric, Add	*16.32*	
		For 1-3/4" Mesh Fabric, Add	*6.53*	
		For 2-1/8" Mesh Fabric, Deduct	*-3.26*	
		For 2-3/8" Mesh Fabric, Deduct	*-4.35*	
		For Posts 8' On Centers, Add	*3.00*	
		For Posts 5' On Centers, Add	*11.18*	
		For Up To 100, Add	*10.14*	
		For >100 To 250, Add	*3.68*	
		For >2,500 To 5,000, Deduct	*-1.84*	
		For >5,000, Deduct	*-3.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	60.63	10.08
		For Each Additional Foot >12, Add	*3.96*	
		For Powder Coated Framework (Posts, Rails, Hardware), Add	*6.16*	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	*4.01*	
		For 13 Gauge Fabric, Deduct	*-14.26*	
		For 11 Gauge Fabric, Deduct	*-8.33*	
		For 6 Gauge Fabric, Add	*13.09*	
		For 1" Mesh Fabric, Add	*17.86*	
		For 1-3/4" Mesh Fabric, Add	*7.14*	
		For 2-1/8" Mesh Fabric, Deduct	*-3.57*	
		For 2-3/8" Mesh Fabric, Deduct	*-4.76*	
		For Posts 8' On Centers, Add	*3.27*	
		For Posts 5' On Centers, Add	*12.19*	
		For Up To 100, Add	*11.05*	
		For >100 To 250, Add	*4.01*	
		For >2,500 To 5,000, Deduct	*-2.01*	
		For >5,000, Deduct	*-4.01*	

32 31 13 13-0162 Rails *(32 31 13 13)*

Note: Includes rail end fittings.

32 31 13 13-0163 SS-20 Chain Link Fence Rails *(32 31 13 13-0162)*

Note: Includes tie wires.

32 31 13 13-0164	LF	1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings	5.35	1.09
		For SS15, Deduct	*-0.31*	
		For SS40, Add	*0.77*	
32 31 13 13-0165	LF	1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings	6.38	1.09
		For SS40, Add	*0.41*	
		For Powder Coated, Add	*0.82*	
		For Aluminum Coated, Add	*1.64*	
32 31 13 13-0166	LF	1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings	6.56	1.23
		For SS15, Deduct	*-0.41*	
		For SS40, Add	*1.02*	
32 31 13 13-0167	LF	1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings	7.94	1.23
		For SS40, Add	*0.55*	
		For Powder Coated, Add	*1.09*	
		For Aluminum Coated, Add	*2.19*	
32 31 13 13-0168	LF	2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings	7.67	1.39
		For SS40, Add	*1.23*	
32 31 13 13-0169	LF	2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings	9.32	1.39
		For SS40, Add	*0.66*	
		For Powder Coated, Add	*1.31*	
		For Aluminum Coated, Add	*2.62*	

32 31 13 13-0170 Fabric *(32 31 13 13)*

32 31 13 13-0171 Fabric, Galvanized Chain Link *(32 31 13 13-0170)*

32 31 13 13-0172	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	9.56	1.98
		For 1-1/4" Mesh Fabric, Add	*0.88*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*0.78*	
		For 13 Gauge Fabric, Deduct	*-1.41*	
		For 11 Gauge Fabric, Deduct	*-0.78*	
		For 6 Gauge Fabric, Add	*2.50*	
		For 1" Mesh Fabric, Add	*2.35*	
		For 1-1/4" Mesh Fabric, Add	*1.57*	
		For 1-3/4" Mesh Fabric, Add	*0.94*	
		For 2-1/8" Mesh Fabric, Deduct	*-0.47*	
		For 2-3/8" Mesh Fabric, Deduct	*-0.63*	
32 31 13 13-0173	LF	3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	10.56	2.22
		For 1-1/4" Mesh Fabric, Add	*1.02*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*0.91*	
		For 13 Gauge Fabric, Deduct	*-1.64*	
		For 11 Gauge Fabric, Deduct	*-0.91*	
		For 6 Gauge Fabric, Add	*2.91*	
		For 1" Mesh Fabric, Add	*2.73*	
		For 1-1/4" Mesh Fabric, Add	*1.82*	
		For 1-3/4" Mesh Fabric, Add	*1.09*	
		For 2-1/8" Mesh Fabric, Deduct	*-0.55*	
		For 2-3/8" Mesh Fabric, Deduct	*-0.73*	
32 31 13 13-0174	LF	4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	11.42	2.47
		For 1-1/4" Mesh Fabric, Add	*1.12*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*1.00*	
		For 13 Gauge Fabric, Deduct	*-1.80*	
		For 11 Gauge Fabric, Deduct	*-1.00*	
		For 6 Gauge Fabric, Add	*3.21*	
		For 1" Mesh Fabric, Add	*3.01*	
		For 1-1/4" Mesh Fabric, Add	*2.01*	
		For 1-3/4" Mesh Fabric, Add	*1.20*	
		For 2-1/8" Mesh Fabric, Deduct	*-0.60*	
		For 2-3/8" Mesh Fabric, Deduct	*-0.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0175	LF	5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	12.90	2.96
		For 1-1/4" Mesh Fabric, Add	*1.40*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*1.25*	
		For 13 Gauge Fabric, Deduct	*-2.25*	
		For 11 Gauge Fabric, Deduct	*-1.25*	
		For 6 Gauge Fabric, Add	*4.00*	
		For 1" Mesh Fabric, Add	*3.75*	
		For 1-1/4" Mesh Fabric, Add	*2.50*	
		For 1-3/4" Mesh Fabric, Add	*1.50*	
		For 2-1/8" Mesh Fabric, Deduct	*-0.75*	
		For 2-3/8" Mesh Fabric, Deduct	*-1.00*	
32 31 13 13-0176	LF	6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	14.47	3.46
		For 1-1/4" Mesh Fabric, Add	*1.68*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*1.50*	
		For 13 Gauge Fabric, Deduct	*-2.70*	
		For 11 Gauge Fabric, Deduct	*-1.50*	
		For 6 Gauge Fabric, Add	*4.80*	
		For 1" Mesh Fabric, Add	*4.50*	
		For 1-1/4" Mesh Fabric, Add	*3.00*	
		For 1-3/4" Mesh Fabric, Add	*1.80*	
		For 2-1/8" Mesh Fabric, Deduct	*-0.90*	
		For 2-3/8" Mesh Fabric, Deduct	*-1.20*	
32 31 13 13-0177	LF	7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	16.11	3.95
		For 1-1/4" Mesh Fabric, Add	*1.96*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*1.75*	
		For 13 Gauge Fabric, Deduct	*-3.15*	
		For 11 Gauge Fabric, Deduct	*-1.75*	
		For 6 Gauge Fabric, Add	*5.59*	
		For 1" Mesh Fabric, Add	*5.24*	
		For 1-1/4" Mesh Fabric, Add	*3.50*	
		For 1-3/4" Mesh Fabric, Add	*2.10*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.05*	
		For 2-3/8" Mesh Fabric, Deduct	*-1.40*	
32 31 13 13-0178	LF	8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	17.89	4.94
		For 1-1/4" Mesh Fabric, Add	*2.24*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*2.00*	
		For 13 Gauge Fabric, Deduct	*-3.60*	
		For 11 Gauge Fabric, Deduct	*-2.00*	
		For 6 Gauge Fabric, Add	*6.40*	
		For 1" Mesh Fabric, Add	*6.00*	
		For 1-1/4" Mesh Fabric, Add	*4.00*	
		For 1-3/4" Mesh Fabric, Add	*2.40*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.20*	
		For 2-3/8" Mesh Fabric, Deduct	*-1.60*	
32 31 13 13-0179	LF	10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	21.30	5.44
		For 1-1/4" Mesh Fabric, Add	*2.91*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*2.60*	
		For 13 Gauge Fabric, Deduct	*-4.68*	
		For 11 Gauge Fabric, Deduct	*-2.60*	
		For 6 Gauge Fabric, Add	*8.31*	
		For 1" Mesh Fabric, Add	*7.79*	
		For 1-1/4" Mesh Fabric, Add	*5.20*	
		For 1-3/4" Mesh Fabric, Add	*3.12*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.56*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.08*	
32 31 13 13-0180	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	24.32	5.93
		For 1-1/4" Mesh Fabric, Add	*3.49*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*3.11*	
		For 13 Gauge Fabric, Deduct	*-5.60*	
		For 11 Gauge Fabric, Deduct	*-3.11*	
		For 6 Gauge Fabric, Add	*9.96*	
		For 1" Mesh Fabric, Add	*9.34*	
		For 1-1/4" Mesh Fabric, Add	*6.23*	
		For 1-3/4" Mesh Fabric, Add	*3.74*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.87*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.49*	
32 31 13 13-0181	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	27.22	6.92
		For 1-1/4" Mesh Fabric, Add	*3.75*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*3.35*	
		For 13 Gauge Fabric, Deduct	*-6.02*	
		For 11 Gauge Fabric, Deduct	*-3.35*	
		For 6 Gauge Fabric, Add	*10.70*	
		For 1" Mesh Fabric, Add	*10.04*	
		For 1-1/4" Mesh Fabric, Add	*6.69*	
		For 1-3/4" Mesh Fabric, Add	*4.01*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.01*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0182	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	30.12	7.90
		For 1-1/4" Mesh Fabric, Add	*4.00*	
		For 2 Oz Galvanized Or Zinc Coating, Add	*3.58*	
		For 13 Gauge Fabric, Deduct	*-6.44*	
		For 11 Gauge Fabric, Deduct	*-3.58*	
		For 6 Gauge Fabric, Add	*11.44*	
		For 1" Mesh Fabric, Add	*10.73*	
		For 1-1/4" Mesh Fabric, Add	*7.15*	
		For 1-3/4" Mesh Fabric, Add	*4.29*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.15*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.86*	

32 31 13 13-0183 Fabric, Vinyl Coated Chain Link *(32 31 13 13-0170)*

32 31 13 13-0184	LF	4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	12.69	1.98
		For 1-1/4" Mesh Fabric, Add	*1.48*	
		For 13 Gauge Fabric, Deduct	*-2.38*	
		For 11 Gauge Fabric, Deduct	*-1.32*	
		For 6 Gauge Fabric, Add	*4.22*	
		For 1" Mesh Fabric, Add	*3.96*	
		For 1-1/4" Mesh Fabric, Add	*2.64*	
		For 1-3/4" Mesh Fabric, Add	*1.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-0.79*	
		For 2-3/8" Mesh Fabric, Deduct	*-1.06*	
		For Aluminum Coated, Add	*2.11*	
32 31 13 13-0185	LF	5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	14.50	2.96
		For 1-1/4" Mesh Fabric, Add	*1.85*	
		For 13 Gauge Fabric, Deduct	*-2.97*	
		For 11 Gauge Fabric, Deduct	*-1.65*	
		For 6 Gauge Fabric, Add	*5.28*	
		For 1" Mesh Fabric, Add	*4.95*	
		For 1-1/4" Mesh Fabric, Add	*3.30*	
		For 1-3/4" Mesh Fabric, Add	*1.98*	
		For 2-1/8" Mesh Fabric, Deduct	*-0.99*	
		For 2-3/8" Mesh Fabric, Deduct	*-1.32*	
		For Aluminum Coated, Add	*2.64*	
32 31 13 13-0186	LF	6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	17.72	3.46
		For 1-1/4" Mesh Fabric, Add	*2.59*	
		For 13 Gauge Fabric, Deduct	*-4.16*	
		For 11 Gauge Fabric, Deduct	*-2.31*	
		For 6 Gauge Fabric, Add	*7.40*	
		For 1" Mesh Fabric, Add	*6.94*	
		For 1-1/4" Mesh Fabric, Add	*4.63*	
		For 1-3/4" Mesh Fabric, Add	*2.78*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.39*	
		For 2-3/8" Mesh Fabric, Deduct	*-1.85*	
		For Aluminum Coated, Add	*3.70*	
32 31 13 13-0187	LF	7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	19.89	3.95
		For 1-1/4" Mesh Fabric, Add	*3.02*	
		For 13 Gauge Fabric, Deduct	*-4.85*	
		For 11 Gauge Fabric, Deduct	*-2.69*	
		For 6 Gauge Fabric, Add	*8.62*	
		For 1" Mesh Fabric, Add	*8.08*	
		For 1-1/4" Mesh Fabric, Add	*5.39*	
		For 1-3/4" Mesh Fabric, Add	*3.23*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.62*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.15*	
		For Aluminum Coated, Add	*4.31*	
32 31 13 13-0188	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	22.29	4.94
		For 1-1/4" Mesh Fabric, Add	*3.47*	
		For 13 Gauge Fabric, Deduct	*-5.58*	
		For 11 Gauge Fabric, Deduct	*-3.10*	
		For 6 Gauge Fabric, Add	*9.92*	
		For 1" Mesh Fabric, Add	*9.30*	
		For 1-1/4" Mesh Fabric, Add	*6.20*	
		For 1-3/4" Mesh Fabric, Add	*3.72*	
		For 2-1/8" Mesh Fabric, Deduct	*-1.86*	
		For 2-3/8" Mesh Fabric, Deduct	*-2.48*	
		For Aluminum Coated, Add	*4.96*	
32 31 13 13-0189	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	26.35	5.44
		For 1-1/4" Mesh Fabric, Add	*4.32*	
		For 13 Gauge Fabric, Deduct	*-6.95*	
		For 11 Gauge Fabric, Deduct	*-3.86*	
		For 6 Gauge Fabric, Add	*12.35*	
		For 1" Mesh Fabric, Add	*11.58*	
		For 1-1/4" Mesh Fabric, Add	*7.72*	
		For 1-3/4" Mesh Fabric, Add	*4.63*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.32*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.09*	
		For Aluminum Coated, Add	*6.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0190	LF	12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	28.76	5.93
		For 1-1/4" Mesh Fabric, Add	*4.73*	
		For 13 Gauge Fabric, Deduct	*-7.60*	
		For 11 Gauge Fabric, Deduct	*-4.22*	
		For 6 Gauge Fabric, Add	*13.51*	
		For 1" Mesh Fabric, Add	*12.67*	
		For 1-1/4" Mesh Fabric, Add	*8.45*	
		For 1-3/4" Mesh Fabric, Add	*5.07*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.53*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.38*	
		For Aluminum Coated, Add	*6.76*	
32 31 13 13-0191	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	32.43	6.92
		For 1-1/4" Mesh Fabric, Add	*5.21*	
		For 13 Gauge Fabric, Deduct	*-8.37*	
		For 11 Gauge Fabric, Deduct	*-4.65*	
		For 6 Gauge Fabric, Add	*14.87*	
		For 1" Mesh Fabric, Add	*13.94*	
		For 1-1/4" Mesh Fabric, Add	*9.30*	
		For 1-3/4" Mesh Fabric, Add	*5.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-2.79*	
		For 2-3/8" Mesh Fabric, Deduct	*-3.72*	
		For Aluminum Coated, Add	*7.44*	
32 31 13 13-0192	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	36.19	7.90
		For 1-1/4" Mesh Fabric, Add	*5.70*	
		For 13 Gauge Fabric, Deduct	*-9.17*	
		For 11 Gauge Fabric, Deduct	*-5.09*	
		For 6 Gauge Fabric, Add	*16.30*	
		For 1" Mesh Fabric, Add	*15.28*	
		For 1-1/4" Mesh Fabric, Add	*10.19*	
		For 1-3/4" Mesh Fabric, Add	*6.11*	
		For 2-1/8" Mesh Fabric, Deduct	*-3.06*	
		For 2-3/8" Mesh Fabric, Deduct	*-4.07*	
		For Aluminum Coated, Add	*8.15*	

32 31 13 13-0193 Fabric, Aluminized Steel Chain Link *(32 31 13 13-0170)*

32 31 13 13-0194	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	9.53	1.98
		For 6 Gauge Fabric, Add	*2.48*	
		For 1" Mesh Fabric, Add	*3.26*	
32 31 13 13-0195	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	10.52	2.22
		For 6 Gauge Fabric, Add	*2.88*	
		For 1" Mesh Fabric, Add	*3.78*	
32 31 13 13-0196	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	11.54	2.47
		For 6 Gauge Fabric, Add	*3.30*	
		For 1" Mesh Fabric, Add	*4.34*	
32 31 13 13-0197	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	13.05	2.96
		For 6 Gauge Fabric, Add	*4.12*	
		For 1" Mesh Fabric, Add	*5.41*	
32 31 13 13-0198	LF	6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	14.63	3.46
		For 6 Gauge Fabric, Add	*4.93*	
		For 1" Mesh Fabric, Add	*6.47*	
32 31 13 13-0199	LF	7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	16.33	3.95
		For 6 Gauge Fabric, Add	*5.77*	
		For 1" Mesh Fabric, Add	*7.57*	
32 31 13 13-0200	LF	8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	18.12	4.94
		For 6 Gauge Fabric, Add	*6.58*	
		For 1" Mesh Fabric, Add	*8.64*	
32 31 13 13-0201	LF	10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	21.20	5.44
		For 6 Gauge Fabric, Add	*8.23*	
		For 1" Mesh Fabric, Add	*10.80*	
32 31 13 13-0202	LF	12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	24.21	5.93
		For 6 Gauge Fabric, Add	*9.87*	
		For 1" Mesh Fabric, Add	*12.96*	

32 31 13 13-0203 Fabric, All Aluminum Chain Link *(32 31 13 13-0170)*

32 31 13 13-0204	LF	3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	14.54	1.98
		For 6 Gauge Fabric, Add	*6.49*	
		For 1" Mesh Fabric, Add	*8.52*	
32 31 13 13-0205	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	16.38	2.22
		For 6 Gauge Fabric, Add	*7.57*	
		For 1" Mesh Fabric, Add	*9.93*	
32 31 13 13-0206	LF	4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	18.22	2.47
		For 6 Gauge Fabric, Add	*8.65*	
		For 1" Mesh Fabric, Add	*11.35*	
32 31 13 13-0207	LF	5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	21.41	2.96
		For 6 Gauge Fabric, Add	*10.81*	
		For 1" Mesh Fabric, Add	*14.19*	
32 31 13 13-0208	LF	6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	24.68	3.46
		For 6 Gauge Fabric, Add	*12.97*	
		For 1" Mesh Fabric, Add	*17.02*	
32 31 13 13-0209	LF	7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	28.04	3.95
		For 6 Gauge Fabric, Add	*15.14*	
		For 1" Mesh Fabric, Add	*19.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0210	LF	8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	31.51	4.94
		For 6 Gauge Fabric, Add	*17.30*	
		For 1" Mesh Fabric, Add	*22.70*	
32 31 13 13-0211	LF	10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	37.93	5.44
		For 6 Gauge Fabric, Add	*21.62*	
		For 1" Mesh Fabric, Add	*28.37*	
32 31 13 13-0212	LF	12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh	44.30	5.93
		For 6 Gauge Fabric, Add	*25.94*	
		For 1" Mesh Fabric, Add	*34.05*	

32 31 13 13-0213 Fence Inserts *(32 31 13 13-0170)*

Note: For use with new or existing chain link fence, per lf of fence.

32 31 13 13-0214 Vinyl Plastic Fence Inserts *(32 31 13 13-0213)*

Note: Assorted colors.

32 31 13 13-0215	LF	3' High Fence, Vinyl Plastic Fence Insert	7.32
32 31 13 13-0216	LF	3-1/2' High Fence, Vinyl Plastic Fence Insert	8.40
32 31 13 13-0217	LF	4' High Fence, Vinyl Plastic Fence Insert	9.27
32 31 13 13-0218	LF	5' High Fence, Vinyl Plastic Fence Insert	11.62
32 31 13 13-0219	LF	6' High Fence, Vinyl Plastic Fence Insert	13.90
32 31 13 13-0220	LF	7' High Fence, Vinyl Plastic Fence Insert	16.26
32 31 13 13-0221	LF	8' High Fence, Vinyl Plastic Fence Insert	18.54
32 31 13 13-0222	LF	10' High Fence, Vinyl Plastic Fence Insert	22.07

32 31 13 13-0223 Aluminum Fence Inserts *(32 31 13 13-0213)*

Note: Assorted colors.

32 31 13 13-0224	LF	3' High Fence, Aluminum Fence Insert	21.55
32 31 13 13-0225	LF	3-1/2' High Fence, Aluminum Fence Insert	23.71
32 31 13 13-0226	LF	4' High Fence, Aluminum Fence Insert	27.26
32 31 13 13-0227	LF	5' High Fence, Aluminum Fence Insert	34.13
32 31 13 13-0228	LF	6' High Fence, Aluminum Fence Insert	40.95
32 31 13 13-0229	LF	7' High Fence, Aluminum Fence Insert	44.85
32 31 13 13-0230	LF	8' High Fence, Aluminum Fence Insert	54.57
32 31 13 13-0231	LF	10' High Fence, Aluminum Fence Insert	67.39

32 31 13 13-0232 Redwood Fence Inserts *(32 31 13 13-0213)*

32 31 13 13-0233	LF	4' High Fence, Redwood Fence Insert	12.80
32 31 13 13-0234	LF	5' High Fence, Redwood Fence Insert	16.19
32 31 13 13-0235	LF	6' High Fence, Redwood Fence Insert	19.45
32 31 13 13-0236	LF	7' High Fence, Redwood Fence Insert	22.64
32 31 13 13-0237	LF	8' High Fence, Redwood Fence Insert	25.90

32 31 13 13-0238 Diagonal Flexible Polyethylene Inserts *(32 31 13 13-0213)*

32 31 13 13-0239	SF	Diagonal Polyethylene Fence Weave	2.93

32 31 13 13-0240 Hedge Link Fence Inserts *(32 31 13 13-0213)*

32 31 13 13-0241	LF	3' High Fence, Hedge Link Fence Insert	14.96
32 31 13 13-0242	LF	3-1/2' High Fence, Hedge Link Fence Insert	17.03
32 31 13 13-0243	LF	4' High Fence, Hedge Link Fence Insert	20.15
32 31 13 13-0244	LF	5' High Fence, Hedge Link Fence Insert	24.91
32 31 13 13-0245	LF	6' High Fence, Hedge Link Fence Insert	28.66
32 31 13 13-0246	LF	7' High Fence, Hedge Link Fence Insert	35.84
32 31 13 13-0247	LF	8' High Fence, Hedge Link Fence Insert	40.73
32 31 13 13-0248	LF	10' High Fence, Hedge Link Fence Insert	48.50
32 31 13 13-0249	LF	12' High Fence, Hedge Link Fence Insert	55.59

32 31 13 13-0250 Fence Windscreen Fabric *(32 31 13 13-0170)*

Note: Includes plastic wire clips.

32 31 13 13-0251	SF	Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY	1.33	0.52
		For Sewn Boxed Vent (Each), Add	*17.94*	
		For Welded Boxed Vent (Each), Add	*8.97*	
		For 4' x 4' One Color Logo (Each), Add	*373.72*	

32 31 13 13-0252 Non-Climbable Fabric, Galvanized Chain Link *(32 31 13 13-0170)*

32 31 13 13-0253	LF	3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	22.30	1.98
		For 11 Gauge, Deduct	*-3.17*	
		For 10 Gauge, Deduct	*-1.27*	
		For 7 Gauge, Add	*1.90*	
		For 6 Gauge, Add	*4.44*	
		For 1/2" Mesh Fabric, Deduct	*-0.79*	
		For 5/8" Mesh Fabric, Deduct	*-1.75*	
		For 3/4" Mesh Fabric, Deduct	*-2.54*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0254	LF	3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	25.43	2.22
		For 11 Gauge, Deduct	*-3.70*	
		For 10 Gauge, Deduct	*-1.48*	
		For 7 Gauge, Add	*2.22*	
		For 6 Gauge, Add	*5.18*	
		For 1/2" Mesh Fabric, Deduct	*-0.93*	
		For 5/8" Mesh Fabric, Deduct	*-2.04*	
		For 3/4" Mesh Fabric, Deduct	*-2.96*	
32 31 13 13-0255	LF	4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	28.58	2.47
		For 11 Gauge, Deduct	*-4.23*	
		For 10 Gauge, Deduct	*-1.69*	
		For 7 Gauge, Add	*2.54*	
		For 6 Gauge, Add	*5.93*	
		For 1/2" Mesh Fabric, Deduct	*-1.06*	
		For 5/8" Mesh Fabric, Deduct	*-2.33*	
		For 3/4" Mesh Fabric, Deduct	*-3.39*	
32 31 13 13-0256	LF	5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	34.35	2.96
		For 11 Gauge, Deduct	*-5.29*	
		For 10 Gauge, Deduct	*-2.12*	
		For 7 Gauge, Add	*3.17*	
		For 6 Gauge, Add	*7.41*	
		For 1/2" Mesh Fabric, Deduct	*-1.32*	
		For 5/8" Mesh Fabric, Deduct	*-2.91*	
		For 3/4" Mesh Fabric, Deduct	*-4.23*	
32 31 13 13-0257	LF	6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	40.20	3.46
		For 11 Gauge, Deduct	*-6.35*	
		For 10 Gauge, Deduct	*-2.54*	
		For 7 Gauge, Add	*3.81*	
		For 6 Gauge, Add	*8.88*	
		For 1/2" Mesh Fabric, Deduct	*-1.59*	
		For 5/8" Mesh Fabric, Deduct	*-3.49*	
		For 3/4" Mesh Fabric, Deduct	*-5.08*	
32 31 13 13-0258	LF	7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	46.15	3.95
		For 11 Gauge, Deduct	*-7.41*	
		For 10 Gauge, Deduct	*-2.96*	
		For 7 Gauge, Add	*4.44*	
		For 6 Gauge, Add	*10.37*	
		For 1/2" Mesh Fabric, Deduct	*-1.85*	
		For 5/8" Mesh Fabric, Deduct	*-4.07*	
		For 3/4" Mesh Fabric, Deduct	*-5.92*	
32 31 13 13-0259	LF	8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	52.21	4.94
		For 11 Gauge, Deduct	*-8.46*	
		For 10 Gauge, Deduct	*-3.39*	
		For 7 Gauge, Add	*5.08*	
		For 6 Gauge, Add	*11.85*	
		For 1/2" Mesh Fabric, Deduct	*-2.12*	
		For 5/8" Mesh Fabric, Deduct	*-4.66*	
		For 3/4" Mesh Fabric, Deduct	*-6.77*	
32 31 13 13-0260	LF	9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	57.49	5.19
		For 11 Gauge, Deduct	*-9.42*	
		For 10 Gauge, Deduct	*-3.77*	
		For 7 Gauge, Add	*5.65*	
		For 6 Gauge, Add	*13.19*	
		For 1/2" Mesh Fabric, Deduct	*-2.36*	
		For 5/8" Mesh Fabric, Deduct	*-5.18*	
		For 3/4" Mesh Fabric, Deduct	*-7.54*	
32 31 13 13-0261	LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	62.80	5.44
		For 11 Gauge, Deduct	*-10.38*	
		For 10 Gauge, Deduct	*-4.15*	
		For 7 Gauge, Add	*6.23*	
		For 6 Gauge, Add	*14.53*	
		For 1/2" Mesh Fabric, Deduct	*-2.59*	
		For 5/8" Mesh Fabric, Deduct	*-5.71*	
		For 3/4" Mesh Fabric, Deduct	*-8.30*	
32 31 13 13-0262	LF	12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	68.12	5.93
		For 11 Gauge, Deduct	*-11.25*	
		For 10 Gauge, Deduct	*-4.50*	
		For 7 Gauge, Add	*6.75*	
		For 6 Gauge, Add	*15.75*	
		For 1/2" Mesh Fabric, Deduct	*-2.81*	
		For 5/8" Mesh Fabric, Deduct	*-6.19*	
		For 3/4" Mesh Fabric, Deduct	*-9.00*	

32 31 13 13-0263 Gates *(32 31 13 13)*

Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.

32 31 13 13-0264 Galvanized Steel Without Barbed Wire *(32 31 13 13-0263)*

Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.

32 31 13 13-0265 4' Fence Height *(32 31 13 13-0264)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0266	EA	3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	317.62	22.01
		For Gate With Single Barb Wire Arm, Add	*27.37*	
		For Gate With Double Barb Wire Arm, Add	*39.81*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-46.66*	
		For Aluminized Steel Gate And Post, Add	*119.44*	
		For Powder Coated Gate And Post, Add	*64.70*	
		For 1" Mesh Fabric, Add	*108.24*	
		For 1-1/4" Mesh Fabric, Add	*69.67*	
		For 1-3/4" Mesh Fabric, Add	*43.30*	
		For 2-1/8" Mesh Fabric, Deduct	*-21.65*	
32 31 13 13-0267	EA	4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	400.56	22.93
		For Gate With Single Barb Wire Arm, Add	*36.49*	
		For Gate With Double Barb Wire Arm, Add	*53.08*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-62.21*	
		For Aluminized Steel Gate And Post, Add	*159.25*	
		For Powder Coated Gate And Post, Add	*86.26*	
		For 1" Mesh Fabric, Add	*144.32*	
		For 1-1/4" Mesh Fabric, Add	*92.90*	
		For 1-3/4" Mesh Fabric, Add	*57.73*	
		For 2-1/8" Mesh Fabric, Deduct	*-28.86*	
32 31 13 13-0268	EA	5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	473.92	24.40
		For Gate With Single Barb Wire Arm, Add	*44.06*	
		For Gate With Double Barb Wire Arm, Add	*64.09*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-75.10*	
		For Aluminized Steel Gate And Post, Add	*192.26*	
		For Powder Coated Gate And Post, Add	*104.14*	
		For 1" Mesh Fabric, Add	*174.24*	
		For 1-1/4" Mesh Fabric, Add	*112.15*	
		For 1-3/4" Mesh Fabric, Add	*69.70*	
		For 2-1/8" Mesh Fabric, Deduct	*-34.85*	
32 31 13 13-0269	EA	6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	557.40	29.34
		For Gate With Single Barb Wire Arm, Add	*51.63*	
		For Gate With Double Barb Wire Arm, Add	*75.09*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-88.00*	
		For Aluminized Steel Gate And Post, Add	*225.28*	
		For Powder Coated Gate And Post, Add	*122.03*	
		For 1" Mesh Fabric, Add	*204.16*	
		For 1-1/4" Mesh Fabric, Add	*131.42*	
		For 1-3/4" Mesh Fabric, Add	*81.67*	
		For 2-1/8" Mesh Fabric, Deduct	*-40.83*	
32 31 13 13-0270	EA	7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	640.85	34.21
		For Gate With Single Barb Wire Arm, Add	*59.19*	
		For Gate With Double Barb Wire Arm, Add	*86.10*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-100.90*	
		For Aluminized Steel Gate And Post, Add	*258.30*	
		For Powder Coated Gate And Post, Add	*139.91*	
		For 1" Mesh Fabric, Add	*234.08*	
		For 1-1/4" Mesh Fabric, Add	*150.67*	
		For 1-3/4" Mesh Fabric, Add	*93.63*	
		For 2-1/8" Mesh Fabric, Deduct	*-46.82*	
32 31 13 13-0271	EA	8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	727.13	39.07
		For Gate With Single Barb Wire Arm, Add	*67.07*	
		For Gate With Double Barb Wire Arm, Add	*97.56*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-114.32*	
		For Aluminized Steel Gate And Post, Add	*292.67*	
		For Powder Coated Gate And Post, Add	*158.53*	
		For 1" Mesh Fabric, Add	*265.23*	
		For 1-1/4" Mesh Fabric, Add	*170.72*	
		For 1-3/4" Mesh Fabric, Add	*106.09*	
		For 2-1/8" Mesh Fabric, Deduct	*-53.05*	
32 31 13 13-0272	EA	9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	810.57	44.02
		For Gate With Single Barb Wire Arm, Add	*74.64*	
		For Gate With Double Barb Wire Arm, Add	*108.56*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-127.22*	
		For Aluminized Steel Gate And Post, Add	*325.68*	
		For Powder Coated Gate And Post, Add	*176.41*	
		For 1" Mesh Fabric, Add	*295.15*	
		For 1-1/4" Mesh Fabric, Add	*189.98*	
		For 1-3/4" Mesh Fabric, Add	*118.06*	
		For 2-1/8" Mesh Fabric, Deduct	*-59.03*	
32 31 13 13-0273	EA	10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	895.24	48.88
		For Gate With Single Barb Wire Arm, Add	*82.34*	
		For Gate With Double Barb Wire Arm, Add	*119.76*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-140.35*	
		For Aluminized Steel Gate And Post, Add	*359.28*	
		For Powder Coated Gate And Post, Add	*194.61*	
		For 1" Mesh Fabric, Add	*325.60*	
		For 1-1/4" Mesh Fabric, Add	*209.58*	
		For 1-3/4" Mesh Fabric, Add	*130.24*	
		For 2-1/8" Mesh Fabric, Deduct	*-65.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0274	EA	10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,142.06	48.88
		For Gate With Single Barb Wire Arm, Add	*109.49*	
		For Gate With Double Barb Wire Arm, Add	*159.25*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-186.62*	
		For Aluminized Steel Gate And Post, Add	*477.75*	
		For Powder Coated Gate And Post, Add	*258.78*	
		For 1" Mesh Fabric, Add	*432.96*	
		For 1-1/4" Mesh Fabric, Add	*278.69*	
		For 1-3/4" Mesh Fabric, Add	*173.19*	
		For 2-1/8" Mesh Fabric, Deduct	*-86.59*	
32 31 13 13-0275	EA	12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,351.60	52.37
		For Gate With Single Barb Wire Arm, Add	*131.38*	
		For Gate With Double Barb Wire Arm, Add	*191.10*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-223.95*	
		For Aluminized Steel Gate And Post, Add	*573.30*	
		For Powder Coated Gate And Post, Add	*310.54*	
		For 1" Mesh Fabric, Add	*519.56*	
		For 1-1/4" Mesh Fabric, Add	*334.43*	
		For 1-3/4" Mesh Fabric, Add	*207.82*	
		For 2-1/8" Mesh Fabric, Deduct	*-103.91*	
32 31 13 13-0276	EA	14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,562.75	56.40
		For Gate With Single Barb Wire Arm, Add	*153.28*	
		For Gate With Double Barb Wire Arm, Add	*222.95*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-261.27*	
		For Aluminized Steel Gate And Post, Add	*668.85*	
		For Powder Coated Gate And Post, Add	*362.29*	
		For 1" Mesh Fabric, Add	*606.15*	
		For 1-1/4" Mesh Fabric, Add	*390.16*	
		For 1-3/4" Mesh Fabric, Add	*242.46*	
		For 2-1/8" Mesh Fabric, Deduct	*-121.23*	
32 31 13 13-0277	EA	16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,775.94	61.08
		For Gate With Single Barb Wire Arm, Add	*175.18*	
		For Gate With Double Barb Wire Arm, Add	*254.80*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-298.60*	
		For Aluminized Steel Gate And Post, Add	*764.40*	
		For Powder Coated Gate And Post, Add	*414.05*	
		For 1" Mesh Fabric, Add	*692.74*	
		For 1-1/4" Mesh Fabric, Add	*445.90*	
		For 1-3/4" Mesh Fabric, Add	*277.10*	
		For 2-1/8" Mesh Fabric, Deduct	*-138.55*	
32 31 13 13-0278	EA	18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,020.39	76.16
		For Gate With Single Barb Wire Arm, Add	*197.07*	
		For Gate With Double Barb Wire Arm, Add	*286.65*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-335.92*	
		For Aluminized Steel Gate And Post, Add	*859.95*	
		For Powder Coated Gate And Post, Add	*465.81*	
		For 1" Mesh Fabric, Add	*779.33*	
		For 1-1/4" Mesh Fabric, Add	*501.64*	
		For 1-3/4" Mesh Fabric, Add	*311.73*	
		For 2-1/8" Mesh Fabric, Deduct	*-155.87*	
32 31 13 13-0279	EA	20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,235.79	81.62
		For Gate With Single Barb Wire Arm, Add	*218.97*	
		For Gate With Double Barb Wire Arm, Add	*318.50*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-373.24*	
		For Aluminized Steel Gate And Post, Add	*955.50*	
		For Powder Coated Gate And Post, Add	*517.56*	
		For 1" Mesh Fabric, Add	*865.92*	
		For 1-1/4" Mesh Fabric, Add	*557.38*	
		For 1-3/4" Mesh Fabric, Add	*346.37*	
		For 2-1/8" Mesh Fabric, Deduct	*-173.18*	
32 31 13 13-0280	EA	22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,448.87	87.95
		For Gate With Single Barb Wire Arm, Add	*240.33*	
		For Gate With Double Barb Wire Arm, Add	*349.57*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-409.66*	
		For Aluminized Steel Gate And Post, Add	*1,048.72*	
		For Powder Coated Gate And Post, Add	*568.06*	
		For 1" Mesh Fabric, Add	*950.41*	
		For 1-1/4" Mesh Fabric, Add	*611.76*	
		For 1-3/4" Mesh Fabric, Add	*380.16*	
		For 2-1/8" Mesh Fabric, Deduct	*-190.08*	
32 31 13 13-0281	EA	24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,665.07	95.25
		For Gate With Single Barb Wire Arm, Add	*261.70*	
		For Gate With Double Barb Wire Arm, Add	*380.65*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-446.07*	
		For Aluminized Steel Gate And Post, Add	*1,141.94*	
		For Powder Coated Gate And Post, Add	*618.55*	
		For 1" Mesh Fabric, Add	*1,034.89*	
		For 1-1/4" Mesh Fabric, Add	*666.13*	
		For 1-3/4" Mesh Fabric, Add	*413.95*	
		For 2-1/8" Mesh Fabric, Deduct	*-206.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0282	EA	26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,885.29	103.93
		For Gate With Single Barb Wire Arm, Add	*283.06*	
		For Gate With Double Barb Wire Arm, Add	*411.72*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-482.49*	
		For Aluminized Steel Gate And Post, Add	*1,235.16*	
		For Powder Coated Gate And Post, Add	*669.05*	
		For 1" Mesh Fabric, Add	*1,119.37*	
		For 1-1/4" Mesh Fabric, Add	*720.51*	
		For 1-3/4" Mesh Fabric, Add	*447.75*	
		For 2-1/8" Mesh Fabric, Deduct	*-223.87*	
32 31 13 13-0283	EA	28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,037.87	114.33
		For Gate With Single Barb Wire Arm, Add	*296.41*	
		For Gate With Double Barb Wire Arm, Add	*431.14*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-505.25*	
		For Aluminized Steel Gate And Post, Add	*1,293.43*	
		For Powder Coated Gate And Post, Add	*700.61*	
		For 1" Mesh Fabric, Add	*1,172.17*	
		For 1-1/4" Mesh Fabric, Add	*754.50*	
		For 1-3/4" Mesh Fabric, Add	*468.87*	
		For 2-1/8" Mesh Fabric, Deduct	*-234.43*	
32 31 13 13-0284	EA	30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,367.32	126.99
		For Gate With Single Barb Wire Arm, Add	*328.45*	
		For Gate With Double Barb Wire Arm, Add	*477.75*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-559.87*	
		For Aluminized Steel Gate And Post, Add	*1,433.26*	
		For Powder Coated Gate And Post, Add	*776.35*	
		For 1" Mesh Fabric, Add	*1,298.89*	
		For 1-1/4" Mesh Fabric, Add	*836.07*	
		For 1-3/4" Mesh Fabric, Add	*519.56*	
		For 2-1/8" Mesh Fabric, Deduct	*-259.78*	

32 31 13 13-0285 5' Fence Height *(32 31 13 13-0264)*

32 31 13 13-0286	EA	3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	380.87	24.40
		For Gate With Single Barb Wire Arm, Add	*33.83*	
		For Gate With Double Barb Wire Arm, Add	*49.20*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-57.66*	
		For Aluminized Steel Gate And Post, Add	*147.60*	
		For Powder Coated Gate And Post, Add	*79.95*	
		For 1" Mesh Fabric, Add	*133.76*	
		For 1-1/4" Mesh Fabric, Add	*86.10*	
		For 1-3/4" Mesh Fabric, Add	*53.51*	
		For 2-1/8" Mesh Fabric, Deduct	*-26.75*	
32 31 13 13-0287	EA	4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	482.02	24.40
		For Gate With Single Barb Wire Arm, Add	*44.95*	
		For Gate With Double Barb Wire Arm, Add	*65.38*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-76.62*	
		For Aluminized Steel Gate And Post, Add	*196.15*	
		For Powder Coated Gate And Post, Add	*106.25*	
		For 1" Mesh Fabric, Add	*177.76*	
		For 1-1/4" Mesh Fabric, Add	*114.42*	
		For 1-3/4" Mesh Fabric, Add	*71.11*	
		For 2-1/8" Mesh Fabric, Deduct	*-35.55*	
32 31 13 13-0288	EA	5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	563.49	25.95
		For Gate With Single Barb Wire Arm, Add	*53.41*	
		For Gate With Double Barb Wire Arm, Add	*77.68*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-91.04*	
		For Aluminized Steel Gate And Post, Add	*233.05*	
		For Powder Coated Gate And Post, Add	*126.24*	
		For 1" Mesh Fabric, Add	*211.20*	
		For 1-1/4" Mesh Fabric, Add	*135.95*	
		For 1-3/4" Mesh Fabric, Add	*84.48*	
		For 2-1/8" Mesh Fabric, Deduct	*-42.24*	
32 31 13 13-0289	EA	6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	659.99	31.18
		For Gate With Single Barb Wire Arm, Add	*62.31*	
		For Gate With Double Barb Wire Arm, Add	*90.63*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-106.21*	
		For Aluminized Steel Gate And Post, Add	*271.89*	
		For Powder Coated Gate And Post, Add	*147.27*	
		For 1" Mesh Fabric, Add	*246.40*	
		For 1-1/4" Mesh Fabric, Add	*158.60*	
		For 1-3/4" Mesh Fabric, Add	*98.56*	
		For 2-1/8" Mesh Fabric, Deduct	*-49.28*	
32 31 13 13-0290	EA	7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	748.41	36.32
		For Gate With Single Barb Wire Arm, Add	*70.32*	
		For Gate With Double Barb Wire Arm, Add	*102.28*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-119.86*	
		For Aluminized Steel Gate And Post, Add	*306.85*	
		For Powder Coated Gate And Post, Add	*166.21*	
		For 1" Mesh Fabric, Add	*278.08*	
		For 1-1/4" Mesh Fabric, Add	*179.00*	
		For 1-3/4" Mesh Fabric, Add	*111.23*	
		For 2-1/8" Mesh Fabric, Deduct	*-55.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0291	EA	8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	845.84	41.82
		For Gate With Single Barb Wire Arm, Add	*79.22*	
		For Gate With Double Barb Wire Arm, Add	*115.23*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-135.04*	
		For Aluminized Steel Gate And Post, Add	*345.69*	
		For Powder Coated Gate And Post, Add	*187.25*	
		For 1" Mesh Fabric, Add	*313.28*	
		For 1-1/4" Mesh Fabric, Add	*201.65*	
		For 1-3/4" Mesh Fabric, Add	*125.31*	
		For 2-1/8" Mesh Fabric, Deduct	*-62.66*	
32 31 13 13-0292	EA	9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	938.29	47.04
		For Gate With Single Barb Wire Arm, Add	*87.68*	
		For Gate With Double Barb Wire Arm, Add	*127.53*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-149.45*	
		For Aluminized Steel Gate And Post, Add	*382.59*	
		For Powder Coated Gate And Post, Add	*207.24*	
		For 1" Mesh Fabric, Add	*346.72*	
		For 1-1/4" Mesh Fabric, Add	*223.18*	
		For 1-3/4" Mesh Fabric, Add	*138.69*	
		For 2-1/8" Mesh Fabric, Deduct	*-69.34*	
32 31 13 13-0293	EA	10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,030.77	52.18
		For Gate With Single Barb Wire Arm, Add	*96.13*	
		For Gate With Double Barb Wire Arm, Add	*139.83*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-163.86*	
		For Aluminized Steel Gate And Post, Add	*419.49*	
		For Powder Coated Gate And Post, Add	*227.22*	
		For 1" Mesh Fabric, Add	*380.16*	
		For 1-1/4" Mesh Fabric, Add	*244.70*	
		For 1-3/4" Mesh Fabric, Add	*152.07*	
		For 2-1/8" Mesh Fabric, Deduct	*-76.03*	
32 31 13 13-0294	EA	10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,390.44	52.37
		For Gate With Single Barb Wire Arm, Add	*135.65*	
		For Gate With Double Barb Wire Arm, Add	*197.32*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-231.23*	
		For Aluminized Steel Gate And Post, Add	*591.95*	
		For Powder Coated Gate And Post, Add	*320.64*	
		For 1" Mesh Fabric, Add	*536.45*	
		For 1-1/4" Mesh Fabric, Add	*345.30*	
		For 1-3/4" Mesh Fabric, Add	*214.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-107.29*	
32 31 13 13-0295	EA	12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,650.15	56.40
		For Gate With Single Barb Wire Arm, Add	*162.89*	
		For Gate With Double Barb Wire Arm, Add	*236.93*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-277.66*	
		For Aluminized Steel Gate And Post, Add	*710.80*	
		For Powder Coated Gate And Post, Add	*385.02*	
		For 1" Mesh Fabric, Add	*644.17*	
		For 1-1/4" Mesh Fabric, Add	*414.64*	
		For 1-3/4" Mesh Fabric, Add	*257.67*	
		For 2-1/8" Mesh Fabric, Deduct	*-128.83*	
32 31 13 13-0296	EA	14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,911.88	61.08
		For Gate With Single Barb Wire Arm, Add	*190.13*	
		For Gate With Double Barb Wire Arm, Add	*276.55*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-324.08*	
		For Aluminized Steel Gate And Post, Add	*829.66*	
		For Powder Coated Gate And Post, Add	*449.40*	
		For 1" Mesh Fabric, Add	*751.88*	
		For 1-1/4" Mesh Fabric, Add	*483.97*	
		For 1-3/4" Mesh Fabric, Add	*300.75*	
		For 2-1/8" Mesh Fabric, Deduct	*-150.38*	
32 31 13 13-0297	EA	16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,204.89	76.16
		For Gate With Single Barb Wire Arm, Add	*217.37*	
		For Gate With Double Barb Wire Arm, Add	*316.17*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-370.51*	
		For Aluminized Steel Gate And Post, Add	*948.51*	
		For Powder Coated Gate And Post, Add	*513.78*	
		For 1" Mesh Fabric, Add	*859.59*	
		For 1-1/4" Mesh Fabric, Add	*553.30*	
		For 1-3/4" Mesh Fabric, Add	*343.84*	
		For 2-1/8" Mesh Fabric, Deduct	*-171.92*	
32 31 13 13-0298	EA	18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,463.99	81.62
		For Gate With Single Barb Wire Arm, Add	*244.07*	
		For Gate With Double Barb Wire Arm, Add	*355.01*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-416.03*	
		For Aluminized Steel Gate And Post, Add	*1,065.04*	
		For Powder Coated Gate And Post, Add	*576.90*	
		For 1" Mesh Fabric, Add	*965.19*	
		For 1-1/4" Mesh Fabric, Add	*621.27*	
		For 1-3/4" Mesh Fabric, Add	*386.08*	
		For 2-1/8" Mesh Fabric, Deduct	*-193.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0299	EA	20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,735.33	87.95
		For Gate With Single Barb Wire Arm, Add	*271.84*	
		For Gate With Double Barb Wire Arm, Add	*395.41*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-463.37*	
		For Aluminized Steel Gate And Post, Add	*1,186.22*	
		For Powder Coated Gate And Post, Add	*642.54*	
		For 1" Mesh Fabric, Add	*1,075.02*	
		For 1-1/4" Mesh Fabric, Add	*691.96*	
		For 1-3/4" Mesh Fabric, Add	*430.01*	
		For 2-1/8" Mesh Fabric, Deduct	*-215.00*	
32 31 13 13-0300	EA	22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,004.93	95.25
		For Gate With Single Barb Wire Arm, Add	*299.08*	
		For Gate With Double Barb Wire Arm, Add	*435.03*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-509.80*	
		For Aluminized Steel Gate And Post, Add	*1,305.08*	
		For Powder Coated Gate And Post, Add	*706.92*	
		For 1" Mesh Fabric, Add	*1,182.73*	
		For 1-1/4" Mesh Fabric, Add	*761.29*	
		For 1-3/4" Mesh Fabric, Add	*473.09*	
		For 2-1/8" Mesh Fabric, Deduct	*-236.55*	
32 31 13 13-0301	EA	24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,273.70	103.93
		For Gate With Single Barb Wire Arm, Add	*325.78*	
		For Gate With Double Barb Wire Arm, Add	*473.87*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-555.31*	
		For Aluminized Steel Gate And Post, Add	*1,421.60*	
		For Powder Coated Gate And Post, Add	*770.03*	
		For 1" Mesh Fabric, Add	*1,288.33*	
		For 1-1/4" Mesh Fabric, Add	*829.27*	
		For 1-3/4" Mesh Fabric, Add	*515.33*	
		For 2-1/8" Mesh Fabric, Deduct	*-257.67*	
32 31 13 13-0302	EA	26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,557.37	114.33
		For Gate With Single Barb Wire Arm, Add	*353.56*	
		For Gate With Double Barb Wire Arm, Add	*514.26*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-602.65*	
		For Aluminized Steel Gate And Post, Add	*1,542.79*	
		For Powder Coated Gate And Post, Add	*835.68*	
		For 1" Mesh Fabric, Add	*1,398.15*	
		For 1-1/4" Mesh Fabric, Add	*899.96*	
		For 1-3/4" Mesh Fabric, Add	*559.26*	
		For 2-1/8" Mesh Fabric, Deduct	*-279.63*	
32 31 13 13-0303	EA	28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,840.07	126.99
		For Gate With Single Barb Wire Arm, Add	*380.46*	
		For Gate With Double Barb Wire Arm, Add	*553.39*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-648.51*	
		For Aluminized Steel Gate And Post, Add	*1,660.18*	
		For Powder Coated Gate And Post, Add	*899.26*	
		For 1" Mesh Fabric, Add	*1,504.53*	
		For 1-1/4" Mesh Fabric, Add	*968.44*	
		For 1-3/4" Mesh Fabric, Add	*601.81*	
		For 2-1/8" Mesh Fabric, Deduct	*-300.91*	
32 31 13 13-0304	EA	30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,128.69	142.87
		For Gate With Single Barb Wire Arm, Add	*406.96*	
		For Gate With Double Barb Wire Arm, Add	*591.95*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-693.69*	
		For Aluminized Steel Gate And Post, Add	*1,775.84*	
		For Powder Coated Gate And Post, Add	*961.91*	
		For 1" Mesh Fabric, Add	*1,609.35*	
		For 1-1/4" Mesh Fabric, Add	*1,035.90*	
		For 1-3/4" Mesh Fabric, Add	*643.74*	
		For 2-1/8" Mesh Fabric, Deduct	*-321.87*	

32 31 13 13-0305 6' Fence Height *(32 31 13 13-0264)*

32 31 13 13-0306	EA	3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	408.37	26.14
		For Gate With Single Barb Wire Arm, Add	*36.27*	
		For Gate With Double Barb Wire Arm, Add	*52.76*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-61.83*	
		For Aluminized Steel Gate And Post, Add	*158.28*	
		For Powder Coated Gate And Post, Add	*85.74*	
		For 1" Mesh Fabric, Add	*143.44*	
		For 1-1/4" Mesh Fabric, Add	*92.33*	
		For 1-3/4" Mesh Fabric, Add	*57.38*	
		For 2-1/8" Mesh Fabric, Deduct	*-28.69*	
32 31 13 13-0307	EA	4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	517.61	26.14
		For Gate With Single Barb Wire Arm, Add	*48.29*	
		For Gate With Double Barb Wire Arm, Add	*70.24*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-82.31*	
		For Aluminized Steel Gate And Post, Add	*210.72*	
		For Powder Coated Gate And Post, Add	*114.14*	
		For 1" Mesh Fabric, Add	*190.96*	
		For 1-1/4" Mesh Fabric, Add	*122.92*	
		For 1-3/4" Mesh Fabric, Add	*76.38*	
		For 2-1/8" Mesh Fabric, Deduct	*-38.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0308	EA	5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	606.00	27.79
		For Gate With Single Barb Wire Arm, Add	*57.48*	
		For Gate With Double Barb Wire Arm, Add	*83.61*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-97.98*	
		For Aluminized Steel Gate And Post, Add	*250.82*	
		For Powder Coated Gate And Post, Add	*135.86*	
		For 1" Mesh Fabric, Add	*227.30*	
		For 1-1/4" Mesh Fabric, Add	*146.31*	
		For 1-3/4" Mesh Fabric, Add	*90.92*	
		For 2-1/8" Mesh Fabric, Deduct	*-45.46*	
32 31 13 13-0309	EA	6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	703.73	33.57
		For Gate With Single Barb Wire Arm, Add	*66.31*	
		For Gate With Double Barb Wire Arm, Add	*96.46*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-113.03*	
		For Aluminized Steel Gate And Post, Add	*289.37*	
		For Powder Coated Gate And Post, Add	*156.74*	
		For 1" Mesh Fabric, Add	*262.24*	
		For 1-1/4" Mesh Fabric, Add	*168.80*	
		For 1-3/4" Mesh Fabric, Add	*104.90*	
		For 2-1/8" Mesh Fabric, Deduct	*-52.45*	
32 31 13 13-0310	EA	7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	806.13	39.43
		For Gate With Single Barb Wire Arm, Add	*75.66*	
		For Gate With Double Barb Wire Arm, Add	*110.05*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-128.97*	
		For Aluminized Steel Gate And Post, Add	*330.15*	
		For Powder Coated Gate And Post, Add	*178.83*	
		For 1" Mesh Fabric, Add	*299.20*	
		For 1-1/4" Mesh Fabric, Add	*192.59*	
		For 1-3/4" Mesh Fabric, Add	*119.68*	
		For 2-1/8" Mesh Fabric, Deduct	*-59.84*	
32 31 13 13-0311	EA	8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	903.56	44.94
		For Gate With Single Barb Wire Arm, Add	*84.56*	
		For Gate With Double Barb Wire Arm, Add	*123.00*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-144.14*	
		For Aluminized Steel Gate And Post, Add	*369.00*	
		For Powder Coated Gate And Post, Add	*199.87*	
		For 1" Mesh Fabric, Add	*334.40*	
		For 1-1/4" Mesh Fabric, Add	*215.25*	
		For 1-3/4" Mesh Fabric, Add	*133.76*	
		For 2-1/8" Mesh Fabric, Deduct	*-66.88*	
32 31 13 13-0312	EA	9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,001.91	50.72
		For Gate With Single Barb Wire Arm, Add	*93.46*	
		For Gate With Double Barb Wire Arm, Add	*135.95*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-159.31*	
		For Aluminized Steel Gate And Post, Add	*407.84*	
		For Powder Coated Gate And Post, Add	*220.91*	
		For 1" Mesh Fabric, Add	*369.60*	
		For 1-1/4" Mesh Fabric, Add	*237.90*	
		For 1-3/4" Mesh Fabric, Add	*147.84*	
		For 2-1/8" Mesh Fabric, Deduct	*-73.92*	
32 31 13 13-0313	EA	10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,063.83	56.49
		For Gate With Single Barb Wire Arm, Add	*98.36*	
		For Gate With Double Barb Wire Arm, Add	*143.07*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-167.66*	
		For Aluminized Steel Gate And Post, Add	*429.20*	
		For Powder Coated Gate And Post, Add	*232.48*	
		For 1" Mesh Fabric, Add	*388.96*	
		For 1-1/4" Mesh Fabric, Add	*250.37*	
		For 1-3/4" Mesh Fabric, Add	*155.59*	
		For 2-1/8" Mesh Fabric, Deduct	*-77.79*	
32 31 13 13-0314	EA	10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,485.07	56.40
		For Gate With Single Barb Wire Arm, Add	*144.73*	
		For Gate With Double Barb Wire Arm, Add	*210.52*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-246.71*	
		For Aluminized Steel Gate And Post, Add	*631.56*	
		For Powder Coated Gate And Post, Add	*342.10*	
		For 1" Mesh Fabric, Add	*572.36*	
		For 1-1/4" Mesh Fabric, Add	*368.41*	
		For 1-3/4" Mesh Fabric, Add	*228.94*	
		For 2-1/8" Mesh Fabric, Deduct	*-114.47*	
32 31 13 13-0315	EA	12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,761.37	61.08
		For Gate With Single Barb Wire Arm, Add	*173.57*	
		For Gate With Double Barb Wire Arm, Add	*252.47*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-295.86*	
		For Aluminized Steel Gate And Post, Add	*757.41*	
		For Powder Coated Gate And Post, Add	*410.26*	
		For 1" Mesh Fabric, Add	*686.40*	
		For 1-1/4" Mesh Fabric, Add	*441.82*	
		For 1-3/4" Mesh Fabric, Add	*274.56*	
		For 2-1/8" Mesh Fabric, Deduct	*-137.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0316	EA	14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,090.14	81.62
		For Gate With Single Barb Wire Arm, Add	*202.95*	
		For Gate With Double Barb Wire Arm, Add	*295.20*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-345.93*	
		For Aluminized Steel Gate And Post, Add	*885.59*	
		For Powder Coated Gate And Post, Add	*479.69*	
		For 1" Mesh Fabric, Add	*802.57*	
		For 1-1/4" Mesh Fabric, Add	*516.59*	
		For 1-3/4" Mesh Fabric, Add	*321.03*	
		For 2-1/8" Mesh Fabric, Deduct	*-160.51*	
32 31 13 13-0317	EA	16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,371.19	87.95
		For Gate With Single Barb Wire Arm, Add	*231.79*	
		For Gate With Double Barb Wire Arm, Add	*337.15*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-395.09*	
		For Aluminized Steel Gate And Post, Add	*1,011.44*	
		For Powder Coated Gate And Post, Add	*547.86*	
		For 1" Mesh Fabric, Add	*916.61*	
		For 1-1/4" Mesh Fabric, Add	*590.00*	
		For 1-3/4" Mesh Fabric, Add	*366.65*	
		For 2-1/8" Mesh Fabric, Deduct	*-183.32*	
32 31 13 13-0318	EA	18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,660.21	95.25
		For Gate With Single Barb Wire Arm, Add	*261.16*	
		For Gate With Double Barb Wire Arm, Add	*379.87*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-445.16*	
		For Aluminized Steel Gate And Post, Add	*1,139.61*	
		For Powder Coated Gate And Post, Add	*617.29*	
		For 1" Mesh Fabric, Add	*1,032.77*	
		For 1-1/4" Mesh Fabric, Add	*664.77*	
		For 1-3/4" Mesh Fabric, Add	*413.11*	
		For 2-1/8" Mesh Fabric, Deduct	*-206.55*	
32 31 13 13-0319	EA	20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,953.26	103.93
		For Gate With Single Barb Wire Arm, Add	*290.54*	
		For Gate With Double Barb Wire Arm, Add	*422.60*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-495.23*	
		For Aluminized Steel Gate And Post, Add	*1,267.79*	
		For Powder Coated Gate And Post, Add	*686.72*	
		For 1" Mesh Fabric, Add	*1,148.94*	
		For 1-1/4" Mesh Fabric, Add	*739.54*	
		For 1-3/4" Mesh Fabric, Add	*459.57*	
		For 2-1/8" Mesh Fabric, Deduct	*-229.79*	
32 31 13 13-0320	EA	22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,246.64	114.33
		For Gate With Single Barb Wire Arm, Add	*319.38*	
		For Gate With Double Barb Wire Arm, Add	*464.55*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-544.39*	
		For Aluminized Steel Gate And Post, Add	*1,393.64*	
		For Powder Coated Gate And Post, Add	*754.89*	
		For 1" Mesh Fabric, Add	*1,262.98*	
		For 1-1/4" Mesh Fabric, Add	*812.95*	
		For 1-3/4" Mesh Fabric, Add	*505.19*	
		For 2-1/8" Mesh Fabric, Deduct	*-252.60*	
32 31 13 13-0321	EA	24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,549.39	126.99
		For Gate With Single Barb Wire Arm, Add	*348.48*	
		For Gate With Double Barb Wire Arm, Add	*506.88*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-594.00*	
		For Aluminized Steel Gate And Post, Add	*1,520.65*	
		For Powder Coated Gate And Post, Add	*823.69*	
		For 1" Mesh Fabric, Add	*1,378.09*	
		For 1-1/4" Mesh Fabric, Add	*887.05*	
		For 1-3/4" Mesh Fabric, Add	*551.24*	
		For 2-1/8" Mesh Fabric, Deduct	*-275.62*	
32 31 13 13-0322	EA	26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,858.74	142.87
		For Gate With Single Barb Wire Arm, Add	*377.27*	
		For Gate With Double Barb Wire Arm, Add	*548.75*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-643.07*	
		For Aluminized Steel Gate And Post, Add	*1,646.26*	
		For Powder Coated Gate And Post, Add	*891.72*	
		For 1" Mesh Fabric, Add	*1,491.92*	
		For 1-1/4" Mesh Fabric, Add	*960.32*	
		For 1-3/4" Mesh Fabric, Add	*596.77*	
		For 2-1/8" Mesh Fabric, Deduct	*-298.38*	
32 31 13 13-0323	EA	28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,185.14	163.25
		For Gate With Single Barb Wire Arm, Add	*406.43*	
		For Gate With Double Barb Wire Arm, Add	*591.17*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-692.78*	
		For Aluminized Steel Gate And Post, Add	*1,773.51*	
		For Powder Coated Gate And Post, Add	*960.65*	
		For 1" Mesh Fabric, Add	*1,607.24*	
		For 1-1/4" Mesh Fabric, Add	*1,034.55*	
		For 1-3/4" Mesh Fabric, Add	*642.90*	
		For 2-1/8" Mesh Fabric, Deduct	*-321.45*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0324	EA	30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,532.43	190.49
		For Gate With Single Barb Wire Arm, Add	*435.64*	
		For Gate With Double Barb Wire Arm, Add	*633.66*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-742.57*	
		For Aluminized Steel Gate And Post, Add	*1,900.99*	
		For Powder Coated Gate And Post, Add	*1,029.70*	
		For 1" Mesh Fabric, Add	*1,722.77*	
		For 1-1/4" Mesh Fabric, Add	*1,108.91*	
		For 1-3/4" Mesh Fabric, Add	*689.11*	
		For 2-1/8" Mesh Fabric, Deduct	*-344.55*	

32 31 13 13-0325 7' Fence Height *(32 31 13 13-0264)*

32 31 13 13-0326	EA	3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	428.57	28.16
		For Gate With Single Barb Wire Arm, Add	*37.83*	
		For Gate With Double Barb Wire Arm, Add	*55.03*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-64.48*	
		For Aluminized Steel Gate And Post, Add	*165.08*	
		For Powder Coated Gate And Post, Add	*89.42*	
		For 1" Mesh Fabric, Add	*149.60*	
		For 1-1/4" Mesh Fabric, Add	*96.29*	
		For 1-3/4" Mesh Fabric, Add	*59.84*	
		For 2-1/8" Mesh Fabric, Deduct	*-29.92*	
32 31 13 13-0327	EA	4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	541.86	28.16
		For Gate With Single Barb Wire Arm, Add	*50.29*	
		For Gate With Double Barb Wire Arm, Add	*73.15*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-85.73*	
		For Aluminized Steel Gate And Post, Add	*219.46*	
		For Powder Coated Gate And Post, Add	*118.87*	
		For 1" Mesh Fabric, Add	*198.88*	
		For 1-1/4" Mesh Fabric, Add	*128.02*	
		For 1-3/4" Mesh Fabric, Add	*79.55*	
		For 2-1/8" Mesh Fabric, Deduct	*-39.78*	
32 31 13 13-0328	EA	5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	637.92	29.62
		For Gate With Single Barb Wire Arm, Add	*60.39*	
		For Gate With Double Barb Wire Arm, Add	*87.83*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-102.93*	
		For Aluminized Steel Gate And Post, Add	*263.50*	
		For Powder Coated Gate And Post, Add	*142.73*	
		For 1" Mesh Fabric, Add	*238.80*	
		For 1-1/4" Mesh Fabric, Add	*153.71*	
		For 1-3/4" Mesh Fabric, Add	*95.52*	
		For 2-1/8" Mesh Fabric, Deduct	*-47.76*	
32 31 13 13-0329	EA	6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	781.80	36.04
		For Gate With Single Barb Wire Arm, Add	*74.09*	
		For Gate With Double Barb Wire Arm, Add	*107.77*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-126.30*	
		For Aluminized Steel Gate And Post, Add	*323.32*	
		For Powder Coated Gate And Post, Add	*175.13*	
		For 1" Mesh Fabric, Add	*293.01*	
		For 1-1/4" Mesh Fabric, Add	*188.60*	
		For 1-3/4" Mesh Fabric, Add	*117.20*	
		For 2-1/8" Mesh Fabric, Deduct	*-58.60*	
32 31 13 13-0330	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	924.80	42.19
		For Gate With Single Barb Wire Arm, Add	*87.81*	
		For Gate With Double Barb Wire Arm, Add	*127.72*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-149.67*	
		For Aluminized Steel Gate And Post, Add	*383.16*	
		For Powder Coated Gate And Post, Add	*207.54*	
		For 1" Mesh Fabric, Add	*347.23*	
		For 1-1/4" Mesh Fabric, Add	*223.51*	
		For 1-3/4" Mesh Fabric, Add	*138.89*	
		For 2-1/8" Mesh Fabric, Deduct	*-69.45*	
32 31 13 13-0331	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,068.67	48.51
		For Gate With Single Barb Wire Arm, Add	*101.51*	
		For Gate With Double Barb Wire Arm, Add	*147.66*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-173.03*	
		For Aluminized Steel Gate And Post, Add	*442.97*	
		For Powder Coated Gate And Post, Add	*239.94*	
		For 1" Mesh Fabric, Add	*401.44*	
		For 1-1/4" Mesh Fabric, Add	*258.40*	
		For 1-3/4" Mesh Fabric, Add	*160.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-80.29*	
32 31 13 13-0332	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,211.67	54.66
		For Gate With Single Barb Wire Arm, Add	*115.23*	
		For Gate With Double Barb Wire Arm, Add	*167.60*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-196.41*	
		For Aluminized Steel Gate And Post, Add	*502.80*	
		For Powder Coated Gate And Post, Add	*272.35*	
		For 1" Mesh Fabric, Add	*455.67*	
		For 1-1/4" Mesh Fabric, Add	*293.30*	
		For 1-3/4" Mesh Fabric, Add	*182.27*	
		For 2-1/8" Mesh Fabric, Deduct	*-91.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0333	EA	10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,333.10	61.08
		For Gate With Single Barb Wire Arm, Add	*126.46*	
		For Gate With Double Barb Wire Arm, Add	*183.95*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-215.56*	
		For Aluminized Steel Gate And Post, Add	*551.84*	
		For Powder Coated Gate And Post, Add	*298.91*	
		For 1" Mesh Fabric, Add	*500.11*	
		For 1-1/4" Mesh Fabric, Add	*321.91*	
		For 1-3/4" Mesh Fabric, Add	*200.04*	
		For 2-1/8" Mesh Fabric, Deduct	*-100.02*	
32 31 13 13-0334	EA	10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,692.52	61.08
		For Gate With Single Barb Wire Arm, Add	*166.00*	
		For Gate With Double Barb Wire Arm, Add	*241.45*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-282.95*	
		For Aluminized Steel Gate And Post, Add	*724.36*	
		For Powder Coated Gate And Post, Add	*392.36*	
		For 1" Mesh Fabric, Add	*656.45*	
		For 1-1/4" Mesh Fabric, Add	*422.55*	
		For 1-3/4" Mesh Fabric, Add	*262.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-131.29*	
32 31 13 13-0335	EA	12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,923.15	81.62
		For Gate With Single Barb Wire Arm, Add	*184.58*	
		For Gate With Double Barb Wire Arm, Add	*268.48*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-314.62*	
		For Aluminized Steel Gate And Post, Add	*805.44*	
		For Powder Coated Gate And Post, Add	*436.28*	
		For 1" Mesh Fabric, Add	*729.93*	
		For 1-1/4" Mesh Fabric, Add	*469.84*	
		For 1-3/4" Mesh Fabric, Add	*291.97*	
		For 2-1/8" Mesh Fabric, Deduct	*-145.99*	
32 31 13 13-0336	EA	14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,221.68	87.95
		For Gate With Single Barb Wire Arm, Add	*215.34*	
		For Gate With Double Barb Wire Arm, Add	*313.22*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-367.06*	
		For Aluminized Steel Gate And Post, Add	*939.67*	
		For Powder Coated Gate And Post, Add	*508.99*	
		For 1" Mesh Fabric, Add	*851.58*	
		For 1-1/4" Mesh Fabric, Add	*548.14*	
		For 1-3/4" Mesh Fabric, Add	*340.63*	
		For 2-1/8" Mesh Fabric, Deduct	*-170.32*	
32 31 13 13-0337	EA	16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,499.99	95.25
		For Gate With Single Barb Wire Arm, Add	*243.54*	
		For Gate With Double Barb Wire Arm, Add	*354.24*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-415.12*	
		For Aluminized Steel Gate And Post, Add	*1,062.71*	
		For Powder Coated Gate And Post, Add	*575.63*	
		For 1" Mesh Fabric, Add	*963.08*	
		For 1-1/4" Mesh Fabric, Add	*619.91*	
		For 1-3/4" Mesh Fabric, Add	*385.23*	
		For 2-1/8" Mesh Fabric, Deduct	*-192.62*	
32 31 13 13-0338	EA	18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,807.60	103.93
		For Gate With Single Barb Wire Arm, Add	*274.51*	
		For Gate With Double Barb Wire Arm, Add	*399.29*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-467.92*	
		For Aluminized Steel Gate And Post, Add	*1,197.87*	
		For Powder Coated Gate And Post, Add	*648.85*	
		For 1" Mesh Fabric, Add	*1,085.57*	
		For 1-1/4" Mesh Fabric, Add	*698.76*	
		For 1-3/4" Mesh Fabric, Add	*434.23*	
		For 2-1/8" Mesh Fabric, Deduct	*-217.11*	
32 31 13 13-0339	EA	20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,115.55	114.33
		For Gate With Single Barb Wire Arm, Add	*304.96*	
		For Gate With Double Barb Wire Arm, Add	*443.57*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-519.81*	
		For Aluminized Steel Gate And Post, Add	*1,330.71*	
		For Powder Coated Gate And Post, Add	*720.80*	
		For 1" Mesh Fabric, Add	*1,205.96*	
		For 1-1/4" Mesh Fabric, Add	*776.25*	
		For 1-3/4" Mesh Fabric, Add	*482.38*	
		For 2-1/8" Mesh Fabric, Deduct	*-241.19*	
32 31 13 13-0340	EA	22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,430.44	126.99
		For Gate With Single Barb Wire Arm, Add	*335.40*	
		For Gate With Double Barb Wire Arm, Add	*487.85*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-571.70*	
		For Aluminized Steel Gate And Post, Add	*1,463.55*	
		For Powder Coated Gate And Post, Add	*792.76*	
		For 1" Mesh Fabric, Add	*1,326.35*	
		For 1-1/4" Mesh Fabric, Add	*853.74*	
		For 1-3/4" Mesh Fabric, Add	*530.54*	
		For 2-1/8" Mesh Fabric, Deduct	*-265.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0341	EA	24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,754.84	142.87
		For Gate With Single Barb Wire Arm, Add	*365.84*	
		For Gate With Double Barb Wire Arm, Add	*532.13*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-623.59*	
		For Aluminized Steel Gate And Post, Add	*1,596.39*	
		For Powder Coated Gate And Post, Add	*864.71*	
		For 1" Mesh Fabric, Add	*1,446.73*	
		For 1-1/4" Mesh Fabric, Add	*931.23*	
		For 1-3/4" Mesh Fabric, Add	*578.69*	
		For 2-1/8" Mesh Fabric, Deduct	*-289.35*	
32 31 13 13-0342	EA	26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,092.89	163.25
		For Gate With Single Barb Wire Arm, Add	*396.28*	
		For Gate With Double Barb Wire Arm, Add	*576.41*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-675.48*	
		For Aluminized Steel Gate And Post, Add	*1,729.23*	
		For Powder Coated Gate And Post, Add	*936.67*	
		For 1" Mesh Fabric, Add	*1,567.11*	
		For 1-1/4" Mesh Fabric, Add	*1,008.72*	
		For 1-3/4" Mesh Fabric, Add	*626.85*	
		For 2-1/8" Mesh Fabric, Deduct	*-313.42*	
32 31 13 13-0343	EA	28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,451.34	190.49
		For Gate With Single Barb Wire Arm, Add	*426.72*	
		For Gate With Double Barb Wire Arm, Add	*620.69*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-727.37*	
		For Aluminized Steel Gate And Post, Add	*1,862.06*	
		For Powder Coated Gate And Post, Add	*1,008.62*	
		For 1" Mesh Fabric, Add	*1,687.50*	
		For 1-1/4" Mesh Fabric, Add	*1,086.20*	
		For 1-3/4" Mesh Fabric, Add	*675.00*	
		For 2-1/8" Mesh Fabric, Deduct	*-337.50*	
32 31 13 13-0344	EA	30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,842.51	228.57
		For Gate With Single Barb Wire Arm, Add	*457.17*	
		For Gate With Double Barb Wire Arm, Add	*664.97*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-779.26*	
		For Aluminized Steel Gate And Post, Add	*1,994.90*	
		For Powder Coated Gate And Post, Add	*1,080.57*	
		For 1" Mesh Fabric, Add	*1,807.88*	
		For 1-1/4" Mesh Fabric, Add	*1,163.69*	
		For 1-3/4" Mesh Fabric, Add	*723.15*	
		For 2-1/8" Mesh Fabric, Deduct	*-361.58*	

32 31 13 13-0345 8' Fence Height *(32 31 13 13-0264)*

32 31 13 13-0346	EA	3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	502.45	30.54
		For Gate With Single Barb Wire Arm, Add	*45.18*	
		For Gate With Double Barb Wire Arm, Add	*65.72*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-77.01*	
		For Aluminized Steel Gate And Post, Add	*197.15*	
		For Powder Coated Gate And Post, Add	*106.79*	
		For 1" Mesh Fabric, Add	*178.67*	
		For 1-1/4" Mesh Fabric, Add	*115.00*	
		For 1-3/4" Mesh Fabric, Add	*71.47*	
		For 2-1/8" Mesh Fabric, Deduct	*-35.73*	
32 31 13 13-0347	EA	4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	639.36	30.54
		For Gate With Single Barb Wire Arm, Add	*60.24*	
		For Gate With Double Barb Wire Arm, Add	*87.62*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-102.68*	
		For Aluminized Steel Gate And Post, Add	*262.87*	
		For Powder Coated Gate And Post, Add	*142.39*	
		For 1" Mesh Fabric, Add	*238.22*	
		For 1-1/4" Mesh Fabric, Add	*153.34*	
		For 1-3/4" Mesh Fabric, Add	*95.29*	
		For 2-1/8" Mesh Fabric, Deduct	*-47.64*	
32 31 13 13-0348	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	746.34	34.02
		For Gate With Single Barb Wire Arm, Add	*70.85*	
		For Gate With Double Barb Wire Arm, Add	*103.05*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-120.77*	
		For Aluminized Steel Gate And Post, Add	*309.16*	
		For Powder Coated Gate And Post, Add	*167.46*	
		For 1" Mesh Fabric, Add	*280.17*	
		For 1-1/4" Mesh Fabric, Add	*180.34*	
		For 1-3/4" Mesh Fabric, Add	*112.07*	
		For 2-1/8" Mesh Fabric, Deduct	*-56.03*	
32 31 13 13-0349	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	856.10	38.52
		For Gate With Single Barb Wire Arm, Add	*81.46*	
		For Gate With Double Barb Wire Arm, Add	*118.49*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-138.85*	
		For Aluminized Steel Gate And Post, Add	*355.46*	
		For Powder Coated Gate And Post, Add	*192.54*	
		For 1" Mesh Fabric, Add	*322.13*	
		For 1-1/4" Mesh Fabric, Add	*207.35*	
		For 1-3/4" Mesh Fabric, Add	*128.85*	
		For 2-1/8" Mesh Fabric, Deduct	*-64.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0350	EA	7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	976.41	46.41
		For Gate With Single Barb Wire Arm, Add	*92.07*	
		For Gate With Double Barb Wire Arm, Add	*133.92*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-156.94*	
		For Aluminized Steel Gate And Post, Add	*401.76*	
		For Powder Coated Gate And Post, Add	*217.62*	
		For 1" Mesh Fabric, Add	*364.10*	
		For 1-1/4" Mesh Fabric, Add	*234.36*	
		For 1-3/4" Mesh Fabric, Add	*145.64*	
		For 2-1/8" Mesh Fabric, Deduct	*-72.82*	
32 31 13 13-0351	EA	8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,095.79	54.02
		For Gate With Single Barb Wire Arm, Add	*102.68*	
		For Gate With Double Barb Wire Arm, Add	*149.35*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-175.02*	
		For Aluminized Steel Gate And Post, Add	*448.06*	
		For Powder Coated Gate And Post, Add	*242.70*	
		For 1" Mesh Fabric, Add	*406.05*	
		For 1-1/4" Mesh Fabric, Add	*261.37*	
		For 1-3/4" Mesh Fabric, Add	*162.42*	
		For 2-1/8" Mesh Fabric, Deduct	*-81.21*	
32 31 13 13-0352	EA	9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,216.10	62.00
		For Gate With Single Barb Wire Arm, Add	*113.29*	
		For Gate With Double Barb Wire Arm, Add	*164.79*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-193.11*	
		For Aluminized Steel Gate And Post, Add	*494.36*	
		For Powder Coated Gate And Post, Add	*267.78*	
		For 1" Mesh Fabric, Add	*448.01*	
		For 1-1/4" Mesh Fabric, Add	*288.37*	
		For 1-3/4" Mesh Fabric, Add	*179.20*	
		For 2-1/8" Mesh Fabric, Deduct	*-89.60*	
32 31 13 13-0353	EA	10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,336.39	69.97
		For Gate With Single Barb Wire Arm, Add	*123.90*	
		For Gate With Double Barb Wire Arm, Add	*180.22*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-211.19*	
		For Aluminized Steel Gate And Post, Add	*540.66*	
		For Powder Coated Gate And Post, Add	*292.86*	
		For 1" Mesh Fabric, Add	*489.97*	
		For 1-1/4" Mesh Fabric, Add	*315.38*	
		For 1-3/4" Mesh Fabric, Add	*195.99*	
		For 2-1/8" Mesh Fabric, Deduct	*-97.99*	
32 31 13 13-0354	EA	10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	1,934.73	81.62
		For Gate With Single Barb Wire Arm, Add	*185.85*	
		For Gate With Double Barb Wire Arm, Add	*270.33*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-316.79*	
		For Aluminized Steel Gate And Post, Add	*810.99*	
		For Powder Coated Gate And Post, Add	*439.29*	
		For 1" Mesh Fabric, Add	*734.96*	
		For 1-1/4" Mesh Fabric, Add	*473.08*	
		For 1-3/4" Mesh Fabric, Add	*293.99*	
		For 2-1/8" Mesh Fabric, Deduct	*-146.99*	
32 31 13 13-0355	EA	12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,278.94	87.95
		For Gate With Single Barb Wire Arm, Add	*221.64*	
		For Gate With Double Barb Wire Arm, Add	*322.39*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-377.80*	
		For Aluminized Steel Gate And Post, Add	*967.16*	
		For Powder Coated Gate And Post, Add	*523.88*	
		For 1" Mesh Fabric, Add	*876.49*	
		For 1-1/4" Mesh Fabric, Add	*564.17*	
		For 1-3/4" Mesh Fabric, Add	*350.59*	
		For 2-1/8" Mesh Fabric, Deduct	*-175.30*	
32 31 13 13-0356	EA	14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,631.08	95.25
		For Gate With Single Barb Wire Arm, Add	*257.96*	
		For Gate With Double Barb Wire Arm, Add	*375.21*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-439.70*	
		For Aluminized Steel Gate And Post, Add	*1,125.63*	
		For Powder Coated Gate And Post, Add	*609.72*	
		For 1" Mesh Fabric, Add	*1,020.10*	
		For 1-1/4" Mesh Fabric, Add	*656.62*	
		For 1-3/4" Mesh Fabric, Add	*408.04*	
		For 2-1/8" Mesh Fabric, Deduct	*-204.02*	
32 31 13 13-0357	EA	16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,996.96	103.93
		For Gate With Single Barb Wire Arm, Add	*295.34*	
		For Gate With Double Barb Wire Arm, Add	*429.59*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-503.42*	
		For Aluminized Steel Gate And Post, Add	*1,288.77*	
		For Powder Coated Gate And Post, Add	*698.08*	
		For 1" Mesh Fabric, Add	*1,167.94*	
		For 1-1/4" Mesh Fabric, Add	*751.78*	
		For 1-3/4" Mesh Fabric, Add	*467.18*	
		For 2-1/8" Mesh Fabric, Deduct	*-233.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0358	EA	18 Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,368.02	114.33
		For Gate With Single Barb Wire Arm, Add	*332.73*	
		For Gate With Double Barb Wire Arm, Add	*483.97*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-567.15*	
		For Aluminized Steel Gate And Post, Add	*1,451.90*	
		For Powder Coated Gate And Post, Add	*786.45*	
		For 1" Mesh Fabric, Add	*1,315.78*	
		For 1-1/4" Mesh Fabric, Add	*846.94*	
		For 1-3/4" Mesh Fabric, Add	*526.31*	
		For 2-1/8" Mesh Fabric, Deduct	*-263.16*	
32 31 13 13-0359	EA	20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,741.17	126.99
		For Gate With Single Barb Wire Arm, Add	*369.58*	
		For Gate With Double Barb Wire Arm, Add	*537.57*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-629.96*	
		For Aluminized Steel Gate And Post, Add	*1,612.70*	
		For Powder Coated Gate And Post, Add	*873.55*	
		For 1" Mesh Fabric, Add	*1,461.51*	
		For 1-1/4" Mesh Fabric, Add	*940.74*	
		For 1-3/4" Mesh Fabric, Add	*584.61*	
		For 2-1/8" Mesh Fabric, Deduct	*-292.30*	
32 31 13 13-0360	EA	22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,118.98	142.87
		For Gate With Single Barb Wire Arm, Add	*405.89*	
		For Gate With Double Barb Wire Arm, Add	*590.39*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-691.87*	
		For Aluminized Steel Gate And Post, Add	*1,771.18*	
		For Powder Coated Gate And Post, Add	*959.39*	
		For 1" Mesh Fabric, Add	*1,605.13*	
		For 1-1/4" Mesh Fabric, Add	*1,033.19*	
		For 1-3/4" Mesh Fabric, Add	*642.05*	
		For 2-1/8" Mesh Fabric, Deduct	*-321.03*	
32 31 13 13-0361	EA	24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,520.15	163.25
		For Gate With Single Barb Wire Arm, Add	*443.28*	
		For Gate With Double Barb Wire Arm, Add	*644.77*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-755.59*	
		For Aluminized Steel Gate And Post, Add	*1,934.31*	
		For Powder Coated Gate And Post, Add	*1,047.75*	
		For 1" Mesh Fabric, Add	*1,752.97*	
		For 1-1/4" Mesh Fabric, Add	*1,128.35*	
		For 1-3/4" Mesh Fabric, Add	*701.19*	
		For 2-1/8" Mesh Fabric, Deduct	*-350.59*	
32 31 13 13-0362	EA	26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,941.72	190.49
		For Gate With Single Barb Wire Arm, Add	*480.66*	
		For Gate With Double Barb Wire Arm, Add	*699.15*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-819.32*	
		For Aluminized Steel Gate And Post, Add	*2,097.45*	
		For Powder Coated Gate And Post, Add	*1,136.12*	
		For 1" Mesh Fabric, Add	*1,900.81*	
		For 1-1/4" Mesh Fabric, Add	*1,223.51*	
		For 1-3/4" Mesh Fabric, Add	*760.32*	
		For 2-1/8" Mesh Fabric, Deduct	*-380.16*	
32 31 13 13-0363	EA	28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,391.15	228.57
		For Gate With Single Barb Wire Arm, Add	*517.52*	
		For Gate With Double Barb Wire Arm, Add	*752.75*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-882.13*	
		For Aluminized Steel Gate And Post, Add	*2,258.25*	
		For Powder Coated Gate And Post, Add	*1,223.22*	
		For 1" Mesh Fabric, Add	*2,046.54*	
		For 1-1/4" Mesh Fabric, Add	*1,317.31*	
		For 1-3/4" Mesh Fabric, Add	*818.62*	
		For 2-1/8" Mesh Fabric, Deduct	*-409.31*	
32 31 13 13-0364	EA	30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,897.78	285.74
		For Gate With Single Barb Wire Arm, Add	*554.37*	
		For Gate With Double Barb Wire Arm, Add	*806.35*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-944.94*	
		For Aluminized Steel Gate And Post, Add	*2,419.06*	
		For Powder Coated Gate And Post, Add	*1,310.32*	
		For 1" Mesh Fabric, Add	*2,192.27*	
		For 1-1/4" Mesh Fabric, Add	*1,411.12*	
		For 1-3/4" Mesh Fabric, Add	*876.91*	
		For 2-1/8" Mesh Fabric, Deduct	*-438.45*	

32 31 13 13-0365 10' Fence Height *(32 31 13 13-0264)*

32 31 13 13-0366	EA	3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	633.03	33.93
		For Gate With Single Barb Wire Arm, Add	*58.42*	
		For Gate With Double Barb Wire Arm, Add	*84.98*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-99.59*	
		For Aluminized Steel Gate And Post, Add	*254.94*	
		For Powder Coated Gate And Post, Add	*138.09*	
		For 1" Mesh Fabric, Add	*231.04*	
		For 1-1/4" Mesh Fabric, Add	*148.72*	
		For 1-3/4" Mesh Fabric, Add	*92.42*	
		For 2-1/8" Mesh Fabric, Deduct	*-46.21*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0367	EA	4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	810.07	33.93
		For Gate With Single Barb Wire Arm, Add	*77.90*	
		For Gate With Double Barb Wire Arm, Add	*113.31*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-132.78*	
		For Aluminized Steel Gate And Post, Add	*339.92*	
		For Powder Coated Gate And Post, Add	*184.12*	
		For 1" Mesh Fabric, Add	*308.05*	
		For 1-1/4" Mesh Fabric, Add	*198.29*	
		For 1-3/4" Mesh Fabric, Add	*123.22*	
		For 2-1/8" Mesh Fabric, Deduct	*-61.61*	
32 31 13 13-0368	EA	5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	939.29	35.40
		For Gate With Single Barb Wire Arm, Add	*91.62*	
		For Gate With Double Barb Wire Arm, Add	*133.27*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-156.17*	
		For Aluminized Steel Gate And Post, Add	*399.80*	
		For Powder Coated Gate And Post, Add	*216.56*	
		For 1" Mesh Fabric, Add	*362.32*	
		For 1-1/4" Mesh Fabric, Add	*233.21*	
		For 1-3/4" Mesh Fabric, Add	*144.93*	
		For 2-1/8" Mesh Fabric, Deduct	*-72.46*	
32 31 13 13-0369	EA	6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,089.71	44.02
		For Gate With Single Barb Wire Arm, Add	*105.34*	
		For Gate With Double Barb Wire Arm, Add	*153.22*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-179.56*	
		For Aluminized Steel Gate And Post, Add	*459.67*	
		For Powder Coated Gate And Post, Add	*248.99*	
		For 1" Mesh Fabric, Add	*416.58*	
		For 1-1/4" Mesh Fabric, Add	*268.14*	
		For 1-3/4" Mesh Fabric, Add	*166.63*	
		For 2-1/8" Mesh Fabric, Deduct	*-83.32*	
32 31 13 13-0370	EA	7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,239.57	52.18
		For Gate With Single Barb Wire Arm, Add	*119.06*	
		For Gate With Double Barb Wire Arm, Add	*173.18*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-202.94*	
		For Aluminized Steel Gate And Post, Add	*519.53*	
		For Powder Coated Gate And Post, Add	*281.41*	
		For 1" Mesh Fabric, Add	*470.82*	
		For 1-1/4" Mesh Fabric, Add	*303.06*	
		For 1-3/4" Mesh Fabric, Add	*188.33*	
		For 2-1/8" Mesh Fabric, Deduct	*-94.16*	
32 31 13 13-0371	EA	8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,389.58	60.80
		For Gate With Single Barb Wire Arm, Add	*132.78*	
		For Gate With Double Barb Wire Arm, Add	*193.13*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-226.33*	
		For Aluminized Steel Gate And Post, Add	*579.40*	
		For Powder Coated Gate And Post, Add	*313.84*	
		For 1" Mesh Fabric, Add	*525.08*	
		For 1-1/4" Mesh Fabric, Add	*337.98*	
		For 1-3/4" Mesh Fabric, Add	*210.03*	
		For 2-1/8" Mesh Fabric, Deduct	*-105.02*	
32 31 13 13-0372	EA	9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,539.09	69.06
		For Gate With Single Barb Wire Arm, Add	*146.50*	
		For Gate With Double Barb Wire Arm, Add	*213.09*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-249.72*	
		For Aluminized Steel Gate And Post, Add	*639.27*	
		For Powder Coated Gate And Post, Add	*346.27*	
		For 1" Mesh Fabric, Add	*579.34*	
		For 1-1/4" Mesh Fabric, Add	*372.91*	
		For 1-3/4" Mesh Fabric, Add	*231.74*	
		For 2-1/8" Mesh Fabric, Deduct	*-115.87*	
32 31 13 13-0373	EA	10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,689.51	77.59
		For Gate With Single Barb Wire Arm, Add	*160.22*	
		For Gate With Double Barb Wire Arm, Add	*233.05*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-273.11*	
		For Aluminized Steel Gate And Post, Add	*699.15*	
		For Powder Coated Gate And Post, Add	*378.71*	
		For 1" Mesh Fabric, Add	*633.60*	
		For 1-1/4" Mesh Fabric, Add	*407.84*	
		For 1-3/4" Mesh Fabric, Add	*253.44*	
		For 2-1/8" Mesh Fabric, Deduct	*-126.72*	
32 31 13 13-0374	EA	10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,457.23	90.74
		For Gate With Single Barb Wire Arm, Add	*240.33*	
		For Gate With Double Barb Wire Arm, Add	*349.57*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-409.65*	
		For Aluminized Steel Gate And Post, Add	*1,048.71*	
		For Powder Coated Gate And Post, Add	*568.05*	
		For 1" Mesh Fabric, Add	*950.40*	
		For 1-1/4" Mesh Fabric, Add	*611.75*	
		For 1-3/4" Mesh Fabric, Add	*380.16*	
		For 2-1/8" Mesh Fabric, Deduct	*-190.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0375	EA	12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,672.34	97.61
		For Gate With Single Barb Wire Arm, Add	*261.70*	
		For Gate With Double Barb Wire Arm, Add	*380.65*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-446.08*	
		For Aluminized Steel Gate And Post, Add	*1,141.96*	
		For Powder Coated Gate And Post, Add	*618.56*	
		For 1" Mesh Fabric, Add	*1,034.90*	
		For 1-1/4" Mesh Fabric, Add	*666.14*	
		For 1-3/4" Mesh Fabric, Add	*413.96*	
		For 2-1/8" Mesh Fabric, Deduct	*-206.98*	
32 31 13 13-0376	EA	14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,046.43	105.87
		For Gate With Single Barb Wire Arm, Add	*300.15*	
		For Gate With Double Barb Wire Arm, Add	*436.58*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-511.62*	
		For Aluminized Steel Gate And Post, Add	*1,309.74*	
		For Powder Coated Gate And Post, Add	*709.44*	
		For 1" Mesh Fabric, Add	*1,186.95*	
		For 1-1/4" Mesh Fabric, Add	*764.01*	
		For 1-3/4" Mesh Fabric, Add	*474.78*	
		For 2-1/8" Mesh Fabric, Deduct	*-237.39*	
32 31 13 13-0377	EA	16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,463.60	115.41
		For Gate With Single Barb Wire Arm, Add	*342.87*	
		For Gate With Double Barb Wire Arm, Add	*498.73*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-584.45*	
		For Aluminized Steel Gate And Post, Add	*1,496.18*	
		For Powder Coated Gate And Post, Add	*810.43*	
		For 1" Mesh Fabric, Add	*1,355.91*	
		For 1-1/4" Mesh Fabric, Add	*872.77*	
		For 1-3/4" Mesh Fabric, Add	*542.36*	
		For 2-1/8" Mesh Fabric, Deduct	*-271.18*	
32 31 13 13-0378	EA	18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,886.82	126.99
		For Gate With Single Barb Wire Arm, Add	*385.60*	
		For Gate With Double Barb Wire Arm, Add	*560.87*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-657.27*	
		For Aluminized Steel Gate And Post, Add	*1,682.62*	
		For Powder Coated Gate And Post, Add	*911.42*	
		For 1" Mesh Fabric, Add	*1,524.87*	
		For 1-1/4" Mesh Fabric, Add	*981.53*	
		For 1-3/4" Mesh Fabric, Add	*609.95*	
		For 2-1/8" Mesh Fabric, Deduct	*-304.97*	
32 31 13 13-0379	EA	20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,319.83	141.04
		For Gate With Single Barb Wire Arm, Add	*428.59*	
		For Gate With Double Barb Wire Arm, Add	*623.41*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-730.56*	
		For Aluminized Steel Gate And Post, Add	*1,870.22*	
		For Powder Coated Gate And Post, Add	*1,013.04*	
		For 1" Mesh Fabric, Add	*1,694.89*	
		For 1-1/4" Mesh Fabric, Add	*1,090.96*	
		For 1-3/4" Mesh Fabric, Add	*677.96*	
		For 2-1/8" Mesh Fabric, Deduct	*-338.98*	
32 31 13 13-0380	EA	22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,763.85	158.74
		For Gate With Single Barb Wire Arm, Add	*471.59*	
		For Gate With Double Barb Wire Arm, Add	*685.94*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-803.84*	
		For Aluminized Steel Gate And Post, Add	*2,057.83*	
		For Powder Coated Gate And Post, Add	*1,114.66*	
		For 1" Mesh Fabric, Add	*1,864.91*	
		For 1-1/4" Mesh Fabric, Add	*1,200.40*	
		For 1-3/4" Mesh Fabric, Add	*745.96*	
		For 2-1/8" Mesh Fabric, Deduct	*-372.98*	
32 31 13 13-0381	EA	24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,220.03	181.27
		For Gate With Single Barb Wire Arm, Add	*514.31*	
		For Gate With Double Barb Wire Arm, Add	*748.09*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-876.67*	
		For Aluminized Steel Gate And Post, Add	*2,244.27*	
		For Powder Coated Gate And Post, Add	*1,215.65*	
		For 1" Mesh Fabric, Add	*2,033.87*	
		For 1-1/4" Mesh Fabric, Add	*1,309.16*	
		For 1-3/4" Mesh Fabric, Add	*813.55*	
		For 2-1/8" Mesh Fabric, Deduct	*-406.77*	
32 31 13 13-0382	EA	26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,699.58	211.62
		For Gate With Single Barb Wire Arm, Add	*557.04*	
		For Gate With Double Barb Wire Arm, Add	*810.24*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-949.49*	
		For Aluminized Steel Gate And Post, Add	*2,430.71*	
		For Powder Coated Gate And Post, Add	*1,316.63*	
		For 1" Mesh Fabric, Add	*2,202.83*	
		For 1-1/4" Mesh Fabric, Add	*1,417.91*	
		For 1-3/4" Mesh Fabric, Add	*881.13*	
		For 2-1/8" Mesh Fabric, Deduct	*-440.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0383	EA	28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,214.44	253.78
		For Gate With Single Barb Wire Arm, Add	*599.76*	
		For Gate With Double Barb Wire Arm, Add	*872.38*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-1,022.32*	
		For Aluminized Steel Gate And Post, Add	*2,617.15*	
		For Powder Coated Gate And Post, Add	*1,417.62*	
		For 1" Mesh Fabric, Add	*2,371.79*	
		For 1-1/4" Mesh Fabric, Add	*1,526.67*	
		For 1-3/4" Mesh Fabric, Add	*948.72*	
		For 2-1/8" Mesh Fabric, Deduct	*-474.36*	
32 31 13 13-0384	EA	30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,799.07	317.49
		For Gate With Single Barb Wire Arm, Add	*643.02*	
		For Gate With Double Barb Wire Arm, Add	*935.31*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-1,096.06*	
		For Aluminized Steel Gate And Post, Add	*2,805.92*	
		For Powder Coated Gate And Post, Add	*1,519.87*	
		For 1" Mesh Fabric, Add	*2,542.86*	
		For 1-1/4" Mesh Fabric, Add	*1,636.78*	
		For 1-3/4" Mesh Fabric, Add	*1,017.14*	
		For 2-1/8" Mesh Fabric, Deduct	*-508.57*	

32 31 13 13-0385 12' Fence Height *(32 31 13 13-0264)*

32 31 13 13-0386	EA	3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	793.06	37.70
		For Gate With Single Barb Wire Arm, Add	*74.78*	
		For Gate With Double Barb Wire Arm, Add	*108.77*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-127.47*	
		For Aluminized Steel Gate And Post, Add	*326.32*	
		For Powder Coated Gate And Post, Add	*176.76*	
		For 1" Mesh Fabric, Add	*295.73*	
		For 1-1/4" Mesh Fabric, Add	*190.36*	
		For 1-3/4" Mesh Fabric, Add	*118.29*	
		For 2-1/8" Mesh Fabric, Deduct	*-59.15*	
32 31 13 13-0387	EA	4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,019.67	37.70
		For Gate With Single Barb Wire Arm, Add	*99.71*	
		For Gate With Double Barb Wire Arm, Add	*145.03*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-169.96*	
		For Aluminized Steel Gate And Post, Add	*435.10*	
		For Powder Coated Gate And Post, Add	*235.68*	
		For 1" Mesh Fabric, Add	*394.31*	
		For 1-1/4" Mesh Fabric, Add	*253.81*	
		For 1-3/4" Mesh Fabric, Add	*157.72*	
		For 2-1/8" Mesh Fabric, Deduct	*-78.86*	
32 31 13 13-0388	EA	5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,183.51	39.07
		For Gate With Single Barb Wire Arm, Add	*117.27*	
		For Gate With Double Barb Wire Arm, Add	*170.58*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-199.90*	
		For Aluminized Steel Gate And Post, Add	*511.74*	
		For Powder Coated Gate And Post, Add	*277.19*	
		For 1" Mesh Fabric, Add	*463.76*	
		For 1-1/4" Mesh Fabric, Add	*298.51*	
		For 1-3/4" Mesh Fabric, Add	*185.50*	
		For 2-1/8" Mesh Fabric, Deduct	*-92.75*	
32 31 13 13-0389	EA	6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,371.60	48.51
		For Gate With Single Barb Wire Arm, Add	*134.84*	
		For Gate With Double Barb Wire Arm, Add	*196.12*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-229.83*	
		For Aluminized Steel Gate And Post, Add	*588.37*	
		For Powder Coated Gate And Post, Add	*318.70*	
		For 1" Mesh Fabric, Add	*533.21*	
		For 1-1/4" Mesh Fabric, Add	*343.22*	
		For 1-3/4" Mesh Fabric, Add	*213.29*	
		For 2-1/8" Mesh Fabric, Deduct	*-106.64*	
32 31 13 13-0390	EA	7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	432.23	58.05
		For Gate With Single Barb Wire Arm, Add	*28.38*	
		For Gate With Double Barb Wire Arm, Add	*41.28*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-48.37*	
		For Aluminized Steel Gate And Post, Add	*123.83*	
		For Powder Coated Gate And Post, Add	*67.07*	
		For 1" Mesh Fabric, Add	*112.22*	
		For 1-1/4" Mesh Fabric, Add	*72.23*	
		For 1-3/4" Mesh Fabric, Add	*44.89*	
		For 2-1/8" Mesh Fabric, Deduct	*-22.44*	
32 31 13 13-0391	EA	8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	489.48	67.23
		For Gate With Single Barb Wire Arm, Add	*31.65*	
		For Gate With Double Barb Wire Arm, Add	*46.03*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-53.94*	
		For Aluminized Steel Gate And Post, Add	*138.10*	
		For Powder Coated Gate And Post, Add	*74.80*	
		For 1" Mesh Fabric, Add	*125.15*	
		For 1-1/4" Mesh Fabric, Add	*80.56*	
		For 1-3/4" Mesh Fabric, Add	*50.06*	
		For 2-1/8" Mesh Fabric, Deduct	*-25.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0392	EA	9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	547.64	76.67
		For Gate With Single Barb Wire Arm, Add	*34.92*	
		For Gate With Double Barb Wire Arm, Add	*50.79*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-59.52*	
		For Aluminized Steel Gate And Post, Add	*152.37*	
		For Powder Coated Gate And Post, Add	*82.53*	
		For 1" Mesh Fabric, Add	*138.08*	
		For 1-1/4" Mesh Fabric, Add	*88.88*	
		For 1-3/4" Mesh Fabric, Add	*55.23*	
		For 2-1/8" Mesh Fabric, Deduct	*-27.62*	
32 31 13 13-0393	EA	10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	605.80	86.12
		For Gate With Single Barb Wire Arm, Add	*38.19*	
		For Gate With Double Barb Wire Arm, Add	*55.55*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-65.09*	
		For Aluminized Steel Gate And Post, Add	*166.64*	
		For Powder Coated Gate And Post, Add	*90.26*	
		For 1" Mesh Fabric, Add	*151.01*	
		For 1-1/4" Mesh Fabric, Add	*97.20*	
		For 1-3/4" Mesh Fabric, Add	*60.41*	
		For 2-1/8" Mesh Fabric, Deduct	*-30.20*	
32 31 13 13-0394	EA	10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	786.35	100.83
		For Gate With Single Barb Wire Arm, Add	*53.20*	
		For Gate With Double Barb Wire Arm, Add	*77.39*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-90.69*	
		For Aluminized Steel Gate And Post, Add	*232.17*	
		For Powder Coated Gate And Post, Add	*125.76*	
		For 1" Mesh Fabric, Add	*210.40*	
		For 1-1/4" Mesh Fabric, Add	*135.43*	
		For 1-3/4" Mesh Fabric, Add	*84.16*	
		For 2-1/8" Mesh Fabric, Deduct	*-42.08*	
32 31 13 13-0395	EA	12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	857.37	108.55
		For Gate With Single Barb Wire Arm, Add	*58.48*	
		For Gate With Double Barb Wire Arm, Add	*85.06*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-99.68*	
		For Aluminized Steel Gate And Post, Add	*255.17*	
		For Powder Coated Gate And Post, Add	*138.22*	
		For 1" Mesh Fabric, Add	*231.25*	
		For 1-1/4" Mesh Fabric, Add	*148.85*	
		For 1-3/4" Mesh Fabric, Add	*92.50*	
		For 2-1/8" Mesh Fabric, Deduct	*-46.25*	
32 31 13 13-0396	EA	14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	962.47	117.55
		For Gate With Single Barb Wire Arm, Add	*67.03*	
		For Gate With Double Barb Wire Arm, Add	*97.50*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-114.25*	
		For Aluminized Steel Gate And Post, Add	*292.49*	
		For Powder Coated Gate And Post, Add	*158.43*	
		For 1" Mesh Fabric, Add	*265.07*	
		For 1-1/4" Mesh Fabric, Add	*170.62*	
		For 1-3/4" Mesh Fabric, Add	*106.03*	
		For 2-1/8" Mesh Fabric, Deduct	*-53.01*	
32 31 13 13-0397	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,081.27	128.17
		For Gate With Single Barb Wire Arm, Add	*76.58*	
		For Gate With Double Barb Wire Arm, Add	*111.38*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-130.53*	
		For Aluminized Steel Gate And Post, Add	*334.15*	
		For Powder Coated Gate And Post, Add	*181.00*	
		For 1" Mesh Fabric, Add	*302.82*	
		For 1-1/4" Mesh Fabric, Add	*194.92*	
		For 1-3/4" Mesh Fabric, Add	*121.13*	
		For 2-1/8" Mesh Fabric, Deduct	*-60.56*	
32 31 13 13-0398	EA	18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	4,628.13	141.15
		For Gate With Single Barb Wire Arm, Add	*462.51*	
		For Gate With Double Barb Wire Arm, Add	*672.74*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-788.36*	
		For Aluminized Steel Gate And Post, Add	*2,018.21*	
		For Powder Coated Gate And Post, Add	*1,093.20*	
		For 1" Mesh Fabric, Add	*1,829.00*	
		For 1-1/4" Mesh Fabric, Add	*1,177.29*	
		For 1-3/4" Mesh Fabric, Add	*731.60*	
		For 2-1/8" Mesh Fabric, Deduct	*-365.80*	
32 31 13 13-0399	EA	20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,146.00	156.70
		For Gate With Single Barb Wire Arm, Add	*514.31*	
		For Gate With Double Barb Wire Arm, Add	*748.09*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-876.67*	
		For Aluminized Steel Gate And Post, Add	*2,244.27*	
		For Powder Coated Gate And Post, Add	*1,215.65*	
		For 1" Mesh Fabric, Add	*2,033.87*	
		For 1-1/4" Mesh Fabric, Add	*1,309.16*	
		For 1-3/4" Mesh Fabric, Add	*813.55*	
		For 2-1/8" Mesh Fabric, Deduct	*-406.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0400	EA	22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,671.33	176.33
		For Gate With Single Barb Wire Arm, Add	*565.58*	
		For Gate With Double Barb Wire Arm, Add	*822.67*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-964.06*	
		For Aluminized Steel Gate And Post, Add	*2,468.00*	
		For Powder Coated Gate And Post, Add	*1,336.83*	
		For 1" Mesh Fabric, Add	*2,236.62*	
		For 1-1/4" Mesh Fabric, Add	*1,439.66*	
		For 1-3/4" Mesh Fabric, Add	*894.65*	
		For 2-1/8" Mesh Fabric, Deduct	*-447.32*	
32 31 13 13-0401	EA	24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,217.57	201.43
		For Gate With Single Barb Wire Arm, Add	*617.39*	
		For Gate With Double Barb Wire Arm, Add	*898.02*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-1,052.36*	
		For Aluminized Steel Gate And Post, Add	*2,694.05*	
		For Powder Coated Gate And Post, Add	*1,459.28*	
		For 1" Mesh Fabric, Add	*2,441.49*	
		For 1-1/4" Mesh Fabric, Add	*1,571.53*	
		For 1-3/4" Mesh Fabric, Add	*976.59*	
		For 2-1/8" Mesh Fabric, Deduct	*-488.30*	
32 31 13 13-0402	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,780.09	235.22
		For Gate With Single Barb Wire Arm, Add	*668.12*	
		For Gate With Double Barb Wire Arm, Add	*971.82*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-1,138.85*	
		For Aluminized Steel Gate And Post, Add	*2,915.45*	
		For Powder Coated Gate And Post, Add	*1,579.20*	
		For 1" Mesh Fabric, Add	*2,642.13*	
		For 1-1/4" Mesh Fabric, Add	*1,700.68*	
		For 1-3/4" Mesh Fabric, Add	*1,056.85*	
		For 2-1/8" Mesh Fabric, Deduct	*-528.43*	
32 31 13 13-0403	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,386.68	281.99
		For Gate With Single Barb Wire Arm, Add	*719.39*	
		For Gate With Double Barb Wire Arm, Add	*1,046.39*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-1,226.24*	
		For Aluminized Steel Gate And Post, Add	*3,139.18*	
		For Powder Coated Gate And Post, Add	*1,700.39*	
		For 1" Mesh Fabric, Add	*2,844.88*	
		For 1-1/4" Mesh Fabric, Add	*1,831.19*	
		For 1-3/4" Mesh Fabric, Add	*1,137.95*	
		For 2-1/8" Mesh Fabric, Deduct	*-568.98*	
32 31 13 13-0404	EA	30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,070.26	352.77
		For Gate With Single Barb Wire Arm, Add	*771.20*	
		For Gate With Double Barb Wire Arm, Add	*1,121.75*	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-1,314.55*	
		For Aluminized Steel Gate And Post, Add	*3,365.24*	
		For Powder Coated Gate And Post, Add	*1,822.84*	
		For 1" Mesh Fabric, Add	*3,049.75*	
		For 1-1/4" Mesh Fabric, Add	*1,963.05*	
		For 1-3/4" Mesh Fabric, Add	*1,219.90*	
		For 2-1/8" Mesh Fabric, Deduct	*-609.95*	

32 31 13 13-0405 Vinyl Coated Without Barb Wire Arm *(32 31 13 13-0263)*

Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.

32 31 13 13-0406 4' Fence Height *(32 31 13 13-0405)*

32 31 13 13-0407	EA	3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	129.12	22.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-11.31*	
		For 1" Mesh Fabric, Add	*26.24*	
		For 1-1/4" Mesh Fabric, Add	*16.89*	
		For 1-3/4" Mesh Fabric, Add	*10.50*	
		For 2-1/8" Mesh Fabric, Deduct	*-5.25*	
		For Gate With Single Barb Wire Arm, Add	*6.64*	
		For Gate With Double Barb Wire Arm, Add	*9.65*	
32 31 13 13-0408	EA	4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	149.23	22.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-15.08*	
		For 1" Mesh Fabric, Add	*34.99*	
		For 1-1/4" Mesh Fabric, Add	*22.52*	
		For 1-3/4" Mesh Fabric, Add	*14.00*	
		For 2-1/8" Mesh Fabric, Deduct	*-7.00*	
		For Gate With Single Barb Wire Arm, Add	*8.85*	
		For Gate With Double Barb Wire Arm, Add	*12.87*	
32 31 13 13-0409	EA	5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	170.57	24.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-18.23*	
		For 1" Mesh Fabric, Add	*42.28*	
		For 1-1/4" Mesh Fabric, Add	*27.22*	
		For 1-3/4" Mesh Fabric, Add	*16.91*	
		For 2-1/8" Mesh Fabric, Deduct	*-8.46*	
		For Gate With Single Barb Wire Arm, Add	*10.69*	
		For Gate With Double Barb Wire Arm, Add	*15.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0410	EA	6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	201.99	29.34
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-21.37*	
		For 1" Mesh Fabric, Add	*49.57*	
		For 1-1/4" Mesh Fabric, Add	*31.91*	
		For 1-3/4" Mesh Fabric, Add	*19.83*	
		For 2-1/8" Mesh Fabric, Deduct	*-9.91*	
		For Gate With Single Barb Wire Arm, Add	*12.53*	
		For Gate With Double Barb Wire Arm, Add	*18.23*	
32 31 13 13-0411	EA	7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	233.43	34.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-24.51*	
		For 1" Mesh Fabric, Add	*56.86*	
		For 1-1/4" Mesh Fabric, Add	*36.60*	
		For 1-3/4" Mesh Fabric, Add	*22.74*	
		For 2-1/8" Mesh Fabric, Deduct	*-11.37*	
		For Gate With Single Barb Wire Arm, Add	*14.38*	
		For Gate With Double Barb Wire Arm, Add	*20.91*	
32 31 13 13-0412	EA	8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	264.86	39.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-27.65*	
		For 1" Mesh Fabric, Add	*64.15*	
		For 1-1/4" Mesh Fabric, Add	*41.29*	
		For 1-3/4" Mesh Fabric, Add	*25.66*	
		For 2-1/8" Mesh Fabric, Deduct	*-12.83*	
		For Gate With Single Barb Wire Arm, Add	*16.22*	
		For Gate With Double Barb Wire Arm, Add	*23.60*	
32 31 13 13-0413	EA	9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	296.30	44.02
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-30.79*	
		For 1" Mesh Fabric, Add	*71.44*	
		For 1-1/4" Mesh Fabric, Add	*45.98*	
		For 1-3/4" Mesh Fabric, Add	*28.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-14.29*	
		For Gate With Single Barb Wire Arm, Add	*18.07*	
		For Gate With Double Barb Wire Arm, Add	*26.28*	
32 31 13 13-0414	EA	10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	327.72	48.88
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-33.93*	
		For 1" Mesh Fabric, Add	*78.73*	
		For 1-1/4" Mesh Fabric, Add	*50.67*	
		For 1-3/4" Mesh Fabric, Add	*31.49*	
		For 2-1/8" Mesh Fabric, Deduct	*-15.75*	
		For Gate With Single Barb Wire Arm, Add	*19.91*	
		For Gate With Double Barb Wire Arm, Add	*28.96*	
32 31 13 13-0415	EA	10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	388.05	48.88
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-45.25*	
		For 1" Mesh Fabric, Add	*104.97*	
		For 1-1/4" Mesh Fabric, Add	*67.57*	
		For 1-3/4" Mesh Fabric, Add	*41.99*	
		For 2-1/8" Mesh Fabric, Deduct	*-20.99*	
		For Gate With Single Barb Wire Arm, Add	*26.54*	
		For Gate With Double Barb Wire Arm, Add	*38.61*	
32 31 13 13-0416	EA	12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	446.79	52.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-54.29*	
		For 1" Mesh Fabric, Add	*125.96*	
		For 1-1/4" Mesh Fabric, Add	*81.08*	
		For 1-3/4" Mesh Fabric, Add	*50.39*	
		For 2-1/8" Mesh Fabric, Deduct	*-25.19*	
		For Gate With Single Barb Wire Arm, Add	*31.85*	
		For Gate With Double Barb Wire Arm, Add	*46.33*	
32 31 13 13-0417	EA	14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	507.14	56.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-63.34*	
		For 1" Mesh Fabric, Add	*146.96*	
		For 1-1/4" Mesh Fabric, Add	*94.59*	
		For 1-3/4" Mesh Fabric, Add	*58.78*	
		For 2-1/8" Mesh Fabric, Deduct	*-29.39*	
		For Gate With Single Barb Wire Arm, Add	*37.16*	
		For Gate With Double Barb Wire Arm, Add	*54.05*	
32 31 13 13-0418	EA	16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	569.53	61.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-72.39*	
		For 1" Mesh Fabric, Add	*167.95*	
		For 1-1/4" Mesh Fabric, Add	*108.11*	
		For 1-3/4" Mesh Fabric, Add	*67.18*	
		For 2-1/8" Mesh Fabric, Deduct	*-33.59*	
		For Gate With Single Barb Wire Arm, Add	*42.47*	
		For Gate With Double Barb Wire Arm, Add	*61.78*	
32 31 13 13-0419	EA	18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	663.18	76.16
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-81.44*	
		For 1" Mesh Fabric, Add	*188.95*	
		For 1-1/4" Mesh Fabric, Add	*121.62*	
		For 1-3/4" Mesh Fabric, Add	*75.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-37.79*	
		For Gate With Single Barb Wire Arm, Add	*47.78*	
		For Gate With Double Barb Wire Arm, Add	*69.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0420	EA	20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	727.78	81.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-90.49*	
		For 1" Mesh Fabric, Add	*209.94*	
		For 1-1/4" Mesh Fabric, Add	*135.13*	
		For 1-3/4" Mesh Fabric, Add	*83.98*	
		For 2-1/8" Mesh Fabric, Deduct	*-41.99*	
		For Gate With Single Barb Wire Arm, Add	*53.09*	
		For Gate With Double Barb Wire Arm, Add	*77.22*	
32 31 13 13-0421	EA	22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	794.91	87.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-99.54*	
		For 1" Mesh Fabric, Add	*230.93*	
		For 1-1/4" Mesh Fabric, Add	*148.65*	
		For 1-3/4" Mesh Fabric, Add	*92.37*	
		For 2-1/8" Mesh Fabric, Deduct	*-46.19*	
		For Gate With Single Barb Wire Arm, Add	*58.40*	
		For Gate With Double Barb Wire Arm, Add	*84.94*	
32 31 13 13-0422	EA	24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	865.17	95.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-108.59*	
		For 1" Mesh Fabric, Add	*251.93*	
		For 1-1/4" Mesh Fabric, Add	*162.16*	
		For 1-3/4" Mesh Fabric, Add	*100.77*	
		For 2-1/8" Mesh Fabric, Deduct	*-50.39*	
		For Gate With Single Barb Wire Arm, Add	*63.71*	
		For Gate With Double Barb Wire Arm, Add	*92.66*	
32 31 13 13-0423	EA	26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	939.44	103.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-117.64*	
		For 1" Mesh Fabric, Add	*272.92*	
		For 1-1/4" Mesh Fabric, Add	*175.67*	
		For 1-3/4" Mesh Fabric, Add	*109.17*	
		For 2-1/8" Mesh Fabric, Deduct	*-54.58*	
		For Gate With Single Barb Wire Arm, Add	*69.02*	
		For Gate With Double Barb Wire Arm, Add	*100.39*	
32 31 13 13-0424	EA	28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,018.90	114.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-126.69*	
		For 1" Mesh Fabric, Add	*293.92*	
		For 1-1/4" Mesh Fabric, Add	*189.19*	
		For 1-3/4" Mesh Fabric, Add	*117.57*	
		For 2-1/8" Mesh Fabric, Deduct	*-58.78*	
		For Gate With Single Barb Wire Arm, Add	*74.32*	
		For Gate With Double Barb Wire Arm, Add	*108.11*	
32 31 13 13-0425	EA	30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,105.30	126.99
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-135.74*	
		For 1" Mesh Fabric, Add	*314.91*	
		For 1-1/4" Mesh Fabric, Add	*202.70*	
		For 1-3/4" Mesh Fabric, Add	*125.96*	
		For 2-1/8" Mesh Fabric, Deduct	*-62.98*	
		For Gate With Single Barb Wire Arm, Add	*79.63*	
		For Gate With Double Barb Wire Arm, Add	*115.83*	

32 31 13 13-0426 5' Fence Height *(32 31 13 13-0405)*

32 31 13 13-0427	EA	3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	148.12	24.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-14.02*	
		For 1" Mesh Fabric, Add	*32.52*	
		For 1-1/4" Mesh Fabric, Add	*20.93*	
		For 1-3/4" Mesh Fabric, Add	*13.01*	
		For 2-1/8" Mesh Fabric, Deduct	*-6.50*	
		For Gate With Single Barb Wire Arm, Add	*8.22*	
		For Gate With Double Barb Wire Arm, Add	*11.96*	
32 31 13 13-0428	EA	4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	173.04	24.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-18.69*	
		For 1" Mesh Fabric, Add	*43.36*	
		For 1-1/4" Mesh Fabric, Add	*27.91*	
		For 1-3/4" Mesh Fabric, Add	*17.34*	
		For 2-1/8" Mesh Fabric, Deduct	*-8.67*	
		For Gate With Single Barb Wire Arm, Add	*10.96*	
		For Gate With Double Barb Wire Arm, Add	*15.95*	
32 31 13 13-0429	EA	5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	196.33	25.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-22.19*	
		For 1" Mesh Fabric, Add	*51.49*	
		For 1-1/4" Mesh Fabric, Add	*33.14*	
		For 1-3/4" Mesh Fabric, Add	*20.60*	
		For 2-1/8" Mesh Fabric, Deduct	*-10.30*	
		For Gate With Single Barb Wire Arm, Add	*13.02*	
		For Gate With Double Barb Wire Arm, Add	*18.94*	
32 31 13 13-0430	EA	6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	230.59	31.18
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-25.70*	
		For 1" Mesh Fabric, Add	*59.62*	
		For 1-1/4" Mesh Fabric, Add	*38.37*	
		For 1-3/4" Mesh Fabric, Add	*23.85*	
		For 2-1/8" Mesh Fabric, Deduct	*-11.92*	
		For Gate With Single Barb Wire Arm, Add	*15.08*	
		For Gate With Double Barb Wire Arm, Add	*21.93*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0431	EA	7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	264.88	36.32
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-29.20*	
		For 1" Mesh Fabric, Add	*67.75*	
		For 1-1/4" Mesh Fabric, Add	*43.61*	
		For 1-3/4" Mesh Fabric, Add	*27.10*	
		For 2-1/8" Mesh Fabric, Deduct	*-13.55*	
		For Gate With Single Barb Wire Arm, Add	*17.13*	
		For Gate With Double Barb Wire Arm, Add	*24.92*	
32 31 13 13-0432	EA	8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	300.08	41.82
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-32.71*	
		For 1" Mesh Fabric, Add	*75.88*	
		For 1-1/4" Mesh Fabric, Add	*48.84*	
		For 1-3/4" Mesh Fabric, Add	*30.35*	
		For 2-1/8" Mesh Fabric, Deduct	*-15.18*	
		For Gate With Single Barb Wire Arm, Add	*19.19*	
		For Gate With Double Barb Wire Arm, Add	*27.91*	
32 31 13 13-0433	EA	9 Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	334.35	47.04
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-36.21*	
		For 1" Mesh Fabric, Add	*84.01*	
		For 1-1/4" Mesh Fabric, Add	*54.07*	
		For 1-3/4" Mesh Fabric, Add	*33.60*	
		For 2-1/8" Mesh Fabric, Deduct	*-16.80*	
		For Gate With Single Barb Wire Arm, Add	*21.24*	
		For Gate With Double Barb Wire Arm, Add	*30.90*	
32 31 13 13-0434	EA	10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	368.63	52.18
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-39.71*	
		For 1" Mesh Fabric, Add	*92.13*	
		For 1-1/4" Mesh Fabric, Add	*59.30*	
		For 1-3/4" Mesh Fabric, Add	*36.85*	
		For 2-1/8" Mesh Fabric, Deduct	*-18.43*	
		For Gate With Single Barb Wire Arm, Add	*23.30*	
		For Gate With Double Barb Wire Arm, Add	*33.89*	
32 31 13 13-0435	EA	10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	456.24	52.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-56.07*	
		For 1" Mesh Fabric, Add	*130.07*	
		For 1-1/4" Mesh Fabric, Add	*83.73*	
		For 1-3/4" Mesh Fabric, Add	*52.03*	
		For 2-1/8" Mesh Fabric, Deduct	*-26.01*	
		For Gate With Single Barb Wire Arm, Add	*32.89*	
		For Gate With Double Barb Wire Arm, Add	*47.84*	
32 31 13 13-0436	EA	12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	528.13	56.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-67.28*	
		For 1" Mesh Fabric, Add	*156.09*	
		For 1-1/4" Mesh Fabric, Add	*100.47*	
		For 1-3/4" Mesh Fabric, Add	*62.43*	
		For 2-1/8" Mesh Fabric, Deduct	*-31.22*	
		For Gate With Single Barb Wire Arm, Add	*39.47*	
		For Gate With Double Barb Wire Arm, Add	*57.41*	
32 31 13 13-0437	EA	14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	602.05	61.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-78.49*	
		For 1" Mesh Fabric, Add	*182.10*	
		For 1-1/4" Mesh Fabric, Add	*117.21*	
		For 1-3/4" Mesh Fabric, Add	*72.84*	
		For 2-1/8" Mesh Fabric, Deduct	*-36.42*	
		For Gate With Single Barb Wire Arm, Add	*46.05*	
		For Gate With Double Barb Wire Arm, Add	*66.98*	
32 31 13 13-0438	EA	16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	707.25	76.16
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-89.71*	
		For 1" Mesh Fabric, Add	*208.12*	
		For 1-1/4" Mesh Fabric, Add	*133.96*	
		For 1-3/4" Mesh Fabric, Add	*83.25*	
		For 2-1/8" Mesh Fabric, Deduct	*-41.62*	
		For Gate With Single Barb Wire Arm, Add	*52.63*	
		For Gate With Double Barb Wire Arm, Add	*76.55*	
32 31 13 13-0439	EA	18 Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	783.39	81.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-100.92*	
		For 1" Mesh Fabric, Add	*234.13*	
		For 1-1/4" Mesh Fabric, Add	*150.70*	
		For 1-3/4" Mesh Fabric, Add	*93.65*	
		For 2-1/8" Mesh Fabric, Deduct	*-46.83*	
		For Gate With Single Barb Wire Arm, Add	*59.21*	
		For Gate With Double Barb Wire Arm, Add	*86.12*	
32 31 13 13-0440	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	862.06	87.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-112.13*	
		For 1" Mesh Fabric, Add	*260.14*	
		For 1-1/4" Mesh Fabric, Add	*167.45*	
		For 1-3/4" Mesh Fabric, Add	*104.06*	
		For 2-1/8" Mesh Fabric, Deduct	*-52.03*	
		For Gate With Single Barb Wire Arm, Add	*65.78*	
		For Gate With Double Barb Wire Arm, Add	*95.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0441	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	943.86	95.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-123.35*	
		For 1" Mesh Fabric, Add	*286.16*	
		For 1-1/4" Mesh Fabric, Add	*184.20*	
		For 1-3/4" Mesh Fabric, Add	*114.46*	
		For 2-1/8" Mesh Fabric, Deduct	*-57.23*	
		For Gate With Single Barb Wire Arm, Add	*72.36*	
		For Gate With Double Barb Wire Arm, Add	*105.25*	
32 31 13 13-0442	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,029.67	103.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-134.56*	
		For 1" Mesh Fabric, Add	*312.17*	
		For 1-1/4" Mesh Fabric, Add	*200.94*	
		For 1-3/4" Mesh Fabric, Add	*124.87*	
		For 2-1/8" Mesh Fabric, Deduct	*-62.43*	
		For Gate With Single Barb Wire Arm, Add	*78.94*	
		For Gate With Double Barb Wire Arm, Add	*114.82*	
32 31 13 13-0443	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,120.67	114.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-145.77*	
		For 1" Mesh Fabric, Add	*338.19*	
		For 1-1/4" Mesh Fabric, Add	*217.68*	
		For 1-3/4" Mesh Fabric, Add	*135.27*	
		For 2-1/8" Mesh Fabric, Deduct	*-67.64*	
		For Gate With Single Barb Wire Arm, Add	*85.52*	
		For Gate With Double Barb Wire Arm, Add	*124.39*	
32 31 13 13-0444	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,218.62	126.99
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-156.98*	
		For 1" Mesh Fabric, Add	*364.20*	
		For 1-1/4" Mesh Fabric, Add	*234.43*	
		For 1-3/4" Mesh Fabric, Add	*145.68*	
		For 2-1/8" Mesh Fabric, Deduct	*-72.84*	
		For Gate With Single Barb Wire Arm, Add	*92.10*	
		For Gate With Double Barb Wire Arm, Add	*133.96*	
32 31 13 13-0445	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,326.08	142.87
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-168.20*	
		For 1" Mesh Fabric, Add	*390.22*	
		For 1-1/4" Mesh Fabric, Add	*251.17*	
		For 1-3/4" Mesh Fabric, Add	*156.09*	
		For 2-1/8" Mesh Fabric, Deduct	*-78.04*	
		For Gate With Single Barb Wire Arm, Add	*98.68*	
		For Gate With Double Barb Wire Arm, Add	*143.53*	

32 31 13 13-0446 6' Fence Height *(32 31 13 13-0405)*

32 31 13 13-0447	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	158.51	26.14
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-14.98*	
		For 1" Mesh Fabric, Add	*34.75*	
		For 1-1/4" Mesh Fabric, Add	*22.37*	
		For 1-3/4" Mesh Fabric, Add	*13.90*	
		For 2-1/8" Mesh Fabric, Deduct	*-6.95*	
		For Gate With Single Barb Wire Arm, Add	*8.79*	
		For Gate With Double Barb Wire Arm, Add	*12.78*	
32 31 13 13-0448	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	185.14	26.14
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-19.97*	
		For 1" Mesh Fabric, Add	*46.34*	
		For 1-1/4" Mesh Fabric, Add	*29.83*	
		For 1-3/4" Mesh Fabric, Add	*18.53*	
		For 2-1/8" Mesh Fabric, Deduct	*-9.27*	
		For Gate With Single Barb Wire Arm, Add	*11.72*	
		For Gate With Double Barb Wire Arm, Add	*17.04*	
32 31 13 13-0449	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	209.95	27.79
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-23.72*	
		For 1" Mesh Fabric, Add	*55.03*	
		For 1-1/4" Mesh Fabric, Add	*35.42*	
		For 1-3/4" Mesh Fabric, Add	*22.01*	
		For 2-1/8" Mesh Fabric, Deduct	*-11.01*	
		For Gate With Single Barb Wire Arm, Add	*13.92*	
		For Gate With Double Barb Wire Arm, Add	*20.24*	
32 31 13 13-0450	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	247.35	33.57
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-27.46*	
		For 1" Mesh Fabric, Add	*63.71*	
		For 1-1/4" Mesh Fabric, Add	*41.01*	
		For 1-3/4" Mesh Fabric, Add	*25.49*	
		For 2-1/8" Mesh Fabric, Deduct	*-12.74*	
		For Gate With Single Barb Wire Arm, Add	*16.11*	
		For Gate With Double Barb Wire Arm, Add	*23.44*	
32 31 13 13-0451	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	284.75	39.43
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-31.21*	
		For 1" Mesh Fabric, Add	*72.40*	
		For 1-1/4" Mesh Fabric, Add	*46.60*	
		For 1-3/4" Mesh Fabric, Add	*28.96*	
		For 2-1/8" Mesh Fabric, Deduct	*-14.48*	
		For Gate With Single Barb Wire Arm, Add	*18.31*	
		For Gate With Double Barb Wire Arm, Add	*26.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0452	EA	8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	321.23	44.94
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-34.95*	
		For 1" Mesh Fabric, Add	*81.09*	
		For 1-1/4" Mesh Fabric, Add	*52.19*	
		For 1-3/4" Mesh Fabric, Add	*32.44*	
		For 2-1/8" Mesh Fabric, Deduct	*-16.22*	
		For Gate With Single Barb Wire Arm, Add	*20.51*	
		For Gate With Double Barb Wire Arm, Add	*29.83*	
32 31 13 13-0453	EA	9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	358.64	50.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-38.70*	
		For 1" Mesh Fabric, Add	*89.78*	
		For 1-1/4" Mesh Fabric, Add	*57.79*	
		For 1-3/4" Mesh Fabric, Add	*35.91*	
		For 2-1/8" Mesh Fabric, Deduct	*-17.96*	
		For Gate With Single Barb Wire Arm, Add	*22.70*	
		For Gate With Double Barb Wire Arm, Add	*33.02*	
32 31 13 13-0454	EA	10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	396.03	56.49
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-42.44*	
		For 1" Mesh Fabric, Add	*98.47*	
		For 1-1/4" Mesh Fabric, Add	*63.38*	
		For 1-3/4" Mesh Fabric, Add	*39.39*	
		For 2-1/8" Mesh Fabric, Deduct	*-19.69*	
		For Gate With Single Barb Wire Arm, Add	*24.90*	
		For Gate With Double Barb Wire Arm, Add	*36.22*	
32 31 13 13-0455	EA	10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	488.87	56.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-59.92*	
		For 1" Mesh Fabric, Add	*139.01*	
		For 1-1/4" Mesh Fabric, Add	*89.48*	
		For 1-3/4" Mesh Fabric, Add	*55.60*	
		For 2-1/8" Mesh Fabric, Deduct	*-27.80*	
		For Gate With Single Barb Wire Arm, Add	*35.15*	
		For Gate With Double Barb Wire Arm, Add	*51.13*	
32 31 13 13-0456	EA	12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	566.91	61.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-71.90*	
		For 1" Mesh Fabric, Add	*166.81*	
		For 1-1/4" Mesh Fabric, Add	*107.37*	
		For 1-3/4" Mesh Fabric, Add	*66.73*	
		For 2-1/8" Mesh Fabric, Deduct	*-33.36*	
		For Gate With Single Barb Wire Arm, Add	*42.18*	
		For Gate With Double Barb Wire Arm, Add	*61.36*	
32 31 13 13-0457	EA	14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	692.55	81.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-83.89*	
		For 1" Mesh Fabric, Add	*194.61*	
		For 1-1/4" Mesh Fabric, Add	*125.27*	
		For 1-3/4" Mesh Fabric, Add	*77.85*	
		For 2-1/8" Mesh Fabric, Deduct	*-38.92*	
		For Gate With Single Barb Wire Arm, Add	*49.21*	
		For Gate With Double Barb Wire Arm, Add	*71.58*	
32 31 13 13-0458	EA	16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	775.33	87.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-95.87*	
		For 1" Mesh Fabric, Add	*222.42*	
		For 1-1/4" Mesh Fabric, Add	*143.16*	
		For 1-3/4" Mesh Fabric, Add	*88.97*	
		For 2-1/8" Mesh Fabric, Deduct	*-44.48*	
		For Gate With Single Barb Wire Arm, Add	*56.24*	
		For Gate With Double Barb Wire Arm, Add	*81.81*	
32 31 13 13-0459	EA	18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	861.23	95.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-107.85*	
		For 1" Mesh Fabric, Add	*250.22*	
		For 1-1/4" Mesh Fabric, Add	*161.06*	
		For 1-3/4" Mesh Fabric, Add	*100.09*	
		For 2-1/8" Mesh Fabric, Deduct	*-50.04*	
		For Gate With Single Barb Wire Arm, Add	*63.27*	
		For Gate With Double Barb Wire Arm, Add	*92.03*	
32 31 13 13-0460	EA	20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	962.97	103.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-122.05*	
		For 1" Mesh Fabric, Add	*283.16*	
		For 1-1/4" Mesh Fabric, Add	*182.26*	
		For 1-3/4" Mesh Fabric, Add	*113.26*	
		For 2-1/8" Mesh Fabric, Deduct	*-56.63*	
		For Gate With Single Barb Wire Arm, Add	*71.60*	
		For Gate With Double Barb Wire Arm, Add	*104.15*	
32 31 13 13-0461	EA	22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,048.41	114.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-132.22*	
		For 1" Mesh Fabric, Add	*306.75*	
		For 1-1/4" Mesh Fabric, Add	*197.45*	
		For 1-3/4" Mesh Fabric, Add	*122.70*	
		For 2-1/8" Mesh Fabric, Deduct	*-61.35*	
		For Gate With Single Barb Wire Arm, Add	*77.57*	
		For Gate With Double Barb Wire Arm, Add	*112.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0462	EA	24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,148.32	126.99
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-143.80*	
		For 1" Mesh Fabric, Add	*333.62*	
		For 1-1/4" Mesh Fabric, Add	*214.75*	
		For 1-3/4" Mesh Fabric, Add	*133.45*	
		For 2-1/8" Mesh Fabric, Deduct	*-66.72*	
		For Gate With Single Barb Wire Arm, Add	*84.36*	
		For Gate With Double Barb Wire Arm, Add	*122.71*	
32 31 13 13-0463	EA	26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,259.89	142.87
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-155.79*	
		For 1" Mesh Fabric, Add	*361.42*	
		For 1-1/4" Mesh Fabric, Add	*232.64*	
		For 1-3/4" Mesh Fabric, Add	*144.57*	
		For 2-1/8" Mesh Fabric, Deduct	*-72.28*	
		For Gate With Single Barb Wire Arm, Add	*91.39*	
		For Gate With Double Barb Wire Arm, Add	*132.94*	
32 31 13 13-0464	EA	28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,385.11	163.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-167.77*	
		For 1" Mesh Fabric, Add	*389.23*	
		For 1-1/4" Mesh Fabric, Add	*250.54*	
		For 1-3/4" Mesh Fabric, Add	*155.69*	
		For 2-1/8" Mesh Fabric, Deduct	*-77.85*	
		For Gate With Single Barb Wire Arm, Add	*98.43*	
		For Gate With Double Barb Wire Arm, Add	*143.16*	
32 31 13 13-0465	EA	30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,530.73	190.49
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-179.75*	
		For 1" Mesh Fabric, Add	*417.03*	
		For 1-1/4" Mesh Fabric, Add	*268.43*	
		For 1-3/4" Mesh Fabric, Add	*166.81*	
		For 2-1/8" Mesh Fabric, Deduct	*-83.41*	
		For Gate With Single Barb Wire Arm, Add	*105.46*	
		For Gate With Double Barb Wire Arm, Add	*153.39*	

32 31 13 13-0466 7' Fence Height *(32 31 13 13-0405)*

32 31 13 13-0467	EA	3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	168.57	28.16
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-15.73*	
		For 1" Mesh Fabric, Add	*36.50*	
		For 1-1/4" Mesh Fabric, Add	*23.49*	
		For 1-3/4" Mesh Fabric, Add	*14.60*	
		For 2-1/8" Mesh Fabric, Deduct	*-7.30*	
		For Gate With Single Barb Wire Arm, Add	*9.23*	
		For Gate With Double Barb Wire Arm, Add	*13.43*	
32 31 13 13-0468	EA	4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	196.55	28.16
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-20.98*	
		For 1" Mesh Fabric, Add	*48.67*	
		For 1-1/4" Mesh Fabric, Add	*31.33*	
		For 1-3/4" Mesh Fabric, Add	*19.47*	
		For 2-1/8" Mesh Fabric, Deduct	*-9.73*	
		For Gate With Single Barb Wire Arm, Add	*12.31*	
		For Gate With Double Barb Wire Arm, Add	*17.90*	
32 31 13 13-0469	EA	5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	221.83	29.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-24.91*	
		For 1" Mesh Fabric, Add	*57.80*	
		For 1-1/4" Mesh Fabric, Add	*37.20*	
		For 1-3/4" Mesh Fabric, Add	*23.12*	
		For 2-1/8" Mesh Fabric, Deduct	*-11.56*	
		For Gate With Single Barb Wire Arm, Add	*14.62*	
		For Gate With Double Barb Wire Arm, Add	*21.26*	
32 31 13 13-0470	EA	6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	262.06	36.04
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-28.85*	
		For 1" Mesh Fabric, Add	*66.92*	
		For 1-1/4" Mesh Fabric, Add	*43.08*	
		For 1-3/4" Mesh Fabric, Add	*26.77*	
		For 2-1/8" Mesh Fabric, Deduct	*-13.38*	
		For Gate With Single Barb Wire Arm, Add	*16.92*	
		For Gate With Double Barb Wire Arm, Add	*24.61*	
32 31 13 13-0471	EA	7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	301.39	42.19
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-32.78*	
		For 1" Mesh Fabric, Add	*76.05*	
		For 1-1/4" Mesh Fabric, Add	*48.95*	
		For 1-3/4" Mesh Fabric, Add	*30.42*	
		For 2-1/8" Mesh Fabric, Deduct	*-15.21*	
		For Gate With Single Barb Wire Arm, Add	*19.23*	
		For Gate With Double Barb Wire Arm, Add	*27.97*	
32 31 13 13-0472	EA	8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	341.63	48.51
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-36.71*	
		For 1" Mesh Fabric, Add	*85.18*	
		For 1-1/4" Mesh Fabric, Add	*54.83*	
		For 1-3/4" Mesh Fabric, Add	*34.07*	
		For 2-1/8" Mesh Fabric, Deduct	*-17.04*	
		For Gate With Single Barb Wire Arm, Add	*21.54*	
		For Gate With Double Barb Wire Arm, Add	*31.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0473	EA	9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	380.94	54.66
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-40.65*	
		For 1" Mesh Fabric, Add	*94.30*	
		For 1-1/4" Mesh Fabric, Add	*60.70*	
		For 1-3/4" Mesh Fabric, Add	*37.72*	
		For 2-1/8" Mesh Fabric, Deduct	*-18.86*	
		For Gate With Single Barb Wire Arm, Add	*23.85*	
		For Gate With Double Barb Wire Arm, Add	*34.68*	
32 31 13 13-0474	EA	10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	421.20	61.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-44.58*	
		For 1" Mesh Fabric, Add	*103.43*	
		For 1-1/4" Mesh Fabric, Add	*66.58*	
		For 1-3/4" Mesh Fabric, Add	*41.37*	
		For 2-1/8" Mesh Fabric, Deduct	*-20.69*	
		For Gate With Single Barb Wire Arm, Add	*26.15*	
		For Gate With Double Barb Wire Arm, Add	*38.04*	
32 31 13 13-0475	EA	10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	519.09	61.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-62.94*	
		For 1" Mesh Fabric, Add	*146.01*	
		For 1-1/4" Mesh Fabric, Add	*93.98*	
		For 1-3/4" Mesh Fabric, Add	*58.40*	
		For 2-1/8" Mesh Fabric, Deduct	*-29.20*	
		For Gate With Single Barb Wire Arm, Add	*36.92*	
		For Gate With Double Barb Wire Arm, Add	*53.71*	
32 31 13 13-0476	EA	12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	647.94	81.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-75.52*	
		For 1" Mesh Fabric, Add	*175.21*	
		For 1-1/4" Mesh Fabric, Add	*112.78*	
		For 1-3/4" Mesh Fabric, Add	*70.08*	
		For 2-1/8" Mesh Fabric, Deduct	*-35.04*	
		For Gate With Single Barb Wire Arm, Add	*44.31*	
		For Gate With Double Barb Wire Arm, Add	*64.44*	
32 31 13 13-0477	EA	14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	733.95	87.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-88.11*	
		For 1" Mesh Fabric, Add	*204.42*	
		For 1-1/4" Mesh Fabric, Add	*131.58*	
		For 1-3/4" Mesh Fabric, Add	*81.77*	
		For 2-1/8" Mesh Fabric, Deduct	*-40.88*	
		For Gate With Single Barb Wire Arm, Add	*51.69*	
		For Gate With Double Barb Wire Arm, Add	*75.19*	
32 31 13 13-0478	EA	16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	823.07	95.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-100.70*	
		For 1" Mesh Fabric, Add	*233.62*	
		For 1-1/4" Mesh Fabric, Add	*150.37*	
		For 1-3/4" Mesh Fabric, Add	*93.45*	
		For 2-1/8" Mesh Fabric, Deduct	*-46.72*	
		For Gate With Single Barb Wire Arm, Add	*59.08*	
		For Gate With Double Barb Wire Arm, Add	*85.93*	
32 31 13 13-0479	EA	18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	916.22	103.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-113.29*	
		For 1" Mesh Fabric, Add	*262.82*	
		For 1-1/4" Mesh Fabric, Add	*169.17*	
		For 1-3/4" Mesh Fabric, Add	*105.13*	
		For 2-1/8" Mesh Fabric, Deduct	*-52.56*	
		For Gate With Single Barb Wire Arm, Add	*66.46*	
		For Gate With Double Barb Wire Arm, Add	*96.67*	
32 31 13 13-0480	EA	20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,014.54	114.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-125.87*	
		For 1" Mesh Fabric, Add	*292.02*	
		For 1-1/4" Mesh Fabric, Add	*187.97*	
		For 1-3/4" Mesh Fabric, Add	*116.81*	
		For 2-1/8" Mesh Fabric, Deduct	*-58.40*	
		For Gate With Single Barb Wire Arm, Add	*73.84*	
		For Gate With Double Barb Wire Arm, Add	*107.41*	
32 31 13 13-0481	EA	22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,119.80	126.99
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-138.46*	
		For 1" Mesh Fabric, Add	*321.22*	
		For 1-1/4" Mesh Fabric, Add	*206.76*	
		For 1-3/4" Mesh Fabric, Add	*128.49*	
		For 2-1/8" Mesh Fabric, Deduct	*-64.24*	
		For Gate With Single Barb Wire Arm, Add	*81.23*	
		For Gate With Double Barb Wire Arm, Add	*118.15*	
32 31 13 13-0482	EA	24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,234.60	142.87
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-151.04*	
		For 1" Mesh Fabric, Add	*350.42*	
		For 1-1/4" Mesh Fabric, Add	*225.56*	
		For 1-3/4" Mesh Fabric, Add	*140.17*	
		For 2-1/8" Mesh Fabric, Deduct	*-70.08*	
		For Gate With Single Barb Wire Arm, Add	*88.61*	
		For Gate With Double Barb Wire Arm, Add	*128.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0483	EA	26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,363.04	163.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-163.63*	
		For 1" Mesh Fabric, Add	*379.63*	
		For 1-1/4" Mesh Fabric, Add	*244.36*	
		For 1-3/4" Mesh Fabric, Add	*151.85*	
		For 2-1/8" Mesh Fabric, Deduct	*-75.93*	
		For Gate With Single Barb Wire Arm, Add	*96.00*	
		For Gate With Double Barb Wire Arm, Add	*139.63*	
32 31 13 13-0484	EA	28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,511.87	190.49
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-176.22*	
		For 1" Mesh Fabric, Add	*408.83*	
		For 1-1/4" Mesh Fabric, Add	*263.15*	
		For 1-3/4" Mesh Fabric, Add	*163.53*	
		For 2-1/8" Mesh Fabric, Deduct	*-81.77*	
		For Gate With Single Barb Wire Arm, Add	*103.38*	
		For Gate With Double Barb Wire Arm, Add	*150.37*	
32 31 13 13-0485	EA	30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,693.43	228.57
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-188.81*	
		For 1" Mesh Fabric, Add	*438.03*	
		For 1-1/4" Mesh Fabric, Add	*281.95*	
		For 1-3/4" Mesh Fabric, Add	*175.21*	
		For 2-1/8" Mesh Fabric, Deduct	*-87.61*	
		For Gate With Single Barb Wire Arm, Add	*110.77*	
		For Gate With Double Barb Wire Arm, Add	*161.12*	

32 31 13 13-0486 8' Fence Height *(32 31 13 13-0405)*

32 31 13 13-0487	EA	3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	193.43	30.54
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-19.07*	
		For 1" Mesh Fabric, Add	*44.24*	
		For 1-1/4" Mesh Fabric, Add	*28.48*	
		For 1-3/4" Mesh Fabric, Add	*17.70*	
		For 2-1/8" Mesh Fabric, Deduct	*-8.85*	
		For Gate With Single Barb Wire Arm, Add	*11.19*	
		For Gate With Double Barb Wire Arm, Add	*16.27*	
32 31 13 13-0488	EA	4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	227.33	30.54
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-25.43*	
		For 1" Mesh Fabric, Add	*58.99*	
		For 1-1/4" Mesh Fabric, Add	*37.97*	
		For 1-3/4" Mesh Fabric, Add	*23.60*	
		For 2-1/8" Mesh Fabric, Deduct	*-11.80*	
		For Gate With Single Barb Wire Arm, Add	*14.92*	
		For Gate With Double Barb Wire Arm, Add	*21.70*	
32 31 13 13-0489	EA	5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	249.93	30.54
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-29.66*	
		For 1" Mesh Fabric, Add	*68.82*	
		For 1-1/4" Mesh Fabric, Add	*44.30*	
		For 1-3/4" Mesh Fabric, Add	*27.53*	
		For 2-1/8" Mesh Fabric, Deduct	*-13.76*	
		For Gate With Single Barb Wire Arm, Add	*17.40*	
		For Gate With Double Barb Wire Arm, Add	*25.31*	
32 31 13 13-0490	EA	6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	296.38	38.52
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-33.90*	
		For 1" Mesh Fabric, Add	*78.66*	
		For 1-1/4" Mesh Fabric, Add	*50.63*	
		For 1-3/4" Mesh Fabric, Add	*31.46*	
		For 2-1/8" Mesh Fabric, Deduct	*-15.73*	
		For Gate With Single Barb Wire Arm, Add	*19.89*	
		For Gate With Double Barb Wire Arm, Add	*28.93*	
32 31 13 13-0491	EA	7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	342.83	46.41
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-38.14*	
		For 1" Mesh Fabric, Add	*88.49*	
		For 1-1/4" Mesh Fabric, Add	*56.96*	
		For 1-3/4" Mesh Fabric, Add	*35.40*	
		For 2-1/8" Mesh Fabric, Deduct	*-17.70*	
		For Gate With Single Barb Wire Arm, Add	*22.38*	
		For Gate With Double Barb Wire Arm, Add	*32.55*	
32 31 13 13-0492	EA	8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	388.36	54.02
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-42.38*	
		For 1" Mesh Fabric, Add	*98.32*	
		For 1-1/4" Mesh Fabric, Add	*63.29*	
		For 1-3/4" Mesh Fabric, Add	*39.33*	
		For 2-1/8" Mesh Fabric, Deduct	*-19.66*	
		For Gate With Single Barb Wire Arm, Add	*24.86*	
		For Gate With Double Barb Wire Arm, Add	*36.16*	
32 31 13 13-0493	EA	9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	434.81	62.00
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-46.62*	
		For 1" Mesh Fabric, Add	*108.15*	
		For 1-1/4" Mesh Fabric, Add	*69.61*	
		For 1-3/4" Mesh Fabric, Add	*43.26*	
		For 2-1/8" Mesh Fabric, Deduct	*-21.63*	
		For Gate With Single Barb Wire Arm, Add	*27.35*	
		For Gate With Double Barb Wire Arm, Add	*39.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0494	EA	10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	481.24	69.97
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-50.85*	
		For 1" Mesh Fabric, Add	*117.98*	
		For 1-1/4" Mesh Fabric, Add	*75.94*	
		For 1-3/4" Mesh Fabric, Add	*47.19*	
		For 2-1/8" Mesh Fabric, Deduct	*-23.60*	
		For Gate With Single Barb Wire Arm, Add	*29.83*	
		For Gate With Double Barb Wire Arm, Add	*43.40*	
32 31 13 13-0495	EA	10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	651.99	81.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-76.28*	
		For 1" Mesh Fabric, Add	*176.97*	
		For 1-1/4" Mesh Fabric, Add	*113.91*	
		For 1-3/4" Mesh Fabric, Add	*70.79*	
		For 2-1/8" Mesh Fabric, Deduct	*-35.39*	
		For Gate With Single Barb Wire Arm, Add	*44.75*	
		For Gate With Double Barb Wire Arm, Add	*65.09*	
32 31 13 13-0496	EA	12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	752.23	87.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-91.54*	
		For 1" Mesh Fabric, Add	*212.37*	
		For 1-1/4" Mesh Fabric, Add	*136.70*	
		For 1-3/4" Mesh Fabric, Add	*84.95*	
		For 2-1/8" Mesh Fabric, Deduct	*-42.47*	
		For Gate With Single Barb Wire Arm, Add	*53.70*	
		For Gate With Double Barb Wire Arm, Add	*78.11*	
32 31 13 13-0497	EA	14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	855.58	95.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-106.79*	
		For 1" Mesh Fabric, Add	*247.76*	
		For 1-1/4" Mesh Fabric, Add	*159.48*	
		For 1-3/4" Mesh Fabric, Add	*99.10*	
		For 2-1/8" Mesh Fabric, Deduct	*-49.55*	
		For Gate With Single Barb Wire Arm, Add	*62.65*	
		For Gate With Double Barb Wire Arm, Add	*91.13*	
32 31 13 13-0498	EA	16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	962.96	103.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-122.05*	
		For 1" Mesh Fabric, Add	*283.15*	
		For 1-1/4" Mesh Fabric, Add	*182.26*	
		For 1-3/4" Mesh Fabric, Add	*113.26*	
		For 2-1/8" Mesh Fabric, Deduct	*-56.63*	
		For Gate With Single Barb Wire Arm, Add	*71.60*	
		For Gate With Double Barb Wire Arm, Add	*104.15*	
32 31 13 13-0499	EA	18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,075.53	114.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-137.31*	
		For 1" Mesh Fabric, Add	*318.55*	
		For 1-1/4" Mesh Fabric, Add	*205.04*	
		For 1-3/4" Mesh Fabric, Add	*127.42*	
		For 2-1/8" Mesh Fabric, Deduct	*-63.71*	
		For Gate With Single Barb Wire Arm, Add	*80.55*	
		For Gate With Double Barb Wire Arm, Add	*117.17*	
32 31 13 13-0500	EA	20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,195.03	126.99
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-152.56*	
		For 1" Mesh Fabric, Add	*353.94*	
		For 1-1/4" Mesh Fabric, Add	*227.82*	
		For 1-3/4" Mesh Fabric, Add	*141.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-70.79*	
		For Gate With Single Barb Wire Arm, Add	*89.50*	
		For Gate With Double Barb Wire Arm, Add	*130.19*	
32 31 13 13-0501	EA	22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,324.06	142.87
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-167.82*	
		For 1" Mesh Fabric, Add	*389.34*	
		For 1-1/4" Mesh Fabric, Add	*250.61*	
		For 1-3/4" Mesh Fabric, Add	*155.74*	
		For 2-1/8" Mesh Fabric, Deduct	*-77.87*	
		For Gate With Single Barb Wire Arm, Add	*98.45*	
		For Gate With Double Barb Wire Arm, Add	*143.20*	
32 31 13 13-0502	EA	24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,466.72	163.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-183.07*	
		For 1" Mesh Fabric, Add	*424.73*	
		For 1-1/4" Mesh Fabric, Add	*273.39*	
		For 1-3/4" Mesh Fabric, Add	*169.89*	
		For 2-1/8" Mesh Fabric, Deduct	*-84.95*	
		For Gate With Single Barb Wire Arm, Add	*107.40*	
		For Gate With Double Barb Wire Arm, Add	*156.22*	
32 31 13 13-0503	EA	26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,629.80	190.49
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-198.33*	
		For 1" Mesh Fabric, Add	*460.13*	
		For 1-1/4" Mesh Fabric, Add	*296.17*	
		For 1-3/4" Mesh Fabric, Add	*184.05*	
		For 2-1/8" Mesh Fabric, Deduct	*-92.03*	
		For Gate With Single Barb Wire Arm, Add	*116.35*	
		For Gate With Double Barb Wire Arm, Add	*169.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0504	EA	28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,825.59	228.57
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-213.59*	
		For 1" Mesh Fabric, Add	*495.52*	
		For 1-1/4" Mesh Fabric, Add	*318.96*	
		For 1-3/4" Mesh Fabric, Add	*198.21*	
		For 2-1/8" Mesh Fabric, Deduct	*-99.10*	
		For Gate With Single Barb Wire Arm, Add	*125.30*	
		For Gate With Double Barb Wire Arm, Add	*182.26*	
32 31 13 13-0505	EA	30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,078.57	285.74
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-228.84*	
		For 1" Mesh Fabric, Add	*530.91*	
		For 1-1/4" Mesh Fabric, Add	*341.74*	
		For 1-3/4" Mesh Fabric, Add	*212.37*	
		For 2-1/8" Mesh Fabric, Deduct	*-106.18*	
		For Gate With Single Barb Wire Arm, Add	*134.25*	
		For Gate With Double Barb Wire Arm, Add	*195.28*	

32 31 13 13-0506 10' Fence Height *(32 31 13 13-0405)*

32 31 13 13-0507	EA	3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	219.88	33.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-22.12*	
		For 1" Mesh Fabric, Add	*51.32*	
		For 1-1/4" Mesh Fabric, Add	*33.03*	
		For 1-3/4" Mesh Fabric, Add	*20.53*	
		For 2-1/8" Mesh Fabric, Deduct	*-10.26*	
		For Gate With Single Barb Wire Arm, Add	*12.98*	
		For Gate With Double Barb Wire Arm, Add	*18.88*	
32 31 13 13-0508	EA	4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	259.21	33.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-29.50*	
		For 1" Mesh Fabric, Add	*68.43*	
		For 1-1/4" Mesh Fabric, Add	*44.05*	
		For 1-3/4" Mesh Fabric, Add	*27.37*	
		For 2-1/8" Mesh Fabric, Deduct	*-13.69*	
		For Gate With Single Barb Wire Arm, Add	*17.30*	
		For Gate With Double Barb Wire Arm, Add	*25.17*	
32 31 13 13-0509	EA	5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm	289.92	35.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-34.41*	
		For 1" Mesh Fabric, Add	*79.84*	
		For 1-1/4" Mesh Fabric, Add	*51.39*	
		For 1-3/4" Mesh Fabric, Add	*31.94*	
		For 2-1/8" Mesh Fabric, Deduct	*-15.97*	
		For Gate With Single Barb Wire Arm, Add	*20.19*	
		For Gate With Double Barb Wire Arm, Add	*29.37*	
32 31 13 13-0510	EA	6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	341.81	44.02
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-39.33*	
		For 1" Mesh Fabric, Add	*91.24*	
		For 1-1/4" Mesh Fabric, Add	*58.73*	
		For 1-3/4" Mesh Fabric, Add	*36.50*	
		For 2-1/8" Mesh Fabric, Deduct	*-18.25*	
		For Gate With Single Barb Wire Arm, Add	*23.07*	
		For Gate With Double Barb Wire Arm, Add	*33.56*	
32 31 13 13-0511	EA	7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	392.80	52.18
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-44.24*	
		For 1" Mesh Fabric, Add	*102.65*	
		For 1-1/4" Mesh Fabric, Add	*66.07*	
		For 1-3/4" Mesh Fabric, Add	*41.06*	
		For 2-1/8" Mesh Fabric, Deduct	*-20.53*	
		For Gate With Single Barb Wire Arm, Add	*25.96*	
		For Gate With Double Barb Wire Arm, Add	*37.76*	
32 31 13 13-0512	EA	8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	444.70	60.80
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-49.16*	
		For 1" Mesh Fabric, Add	*114.06*	
		For 1-1/4" Mesh Fabric, Add	*73.42*	
		For 1-3/4" Mesh Fabric, Add	*45.62*	
		For 2-1/8" Mesh Fabric, Deduct	*-22.81*	
		For Gate With Single Barb Wire Arm, Add	*28.84*	
		For Gate With Double Barb Wire Arm, Add	*41.95*	
32 31 13 13-0513	EA	9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	495.69	69.06
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-54.08*	
		For 1" Mesh Fabric, Add	*125.46*	
		For 1-1/4" Mesh Fabric, Add	*80.76*	
		For 1-3/4" Mesh Fabric, Add	*50.19*	
		For 2-1/8" Mesh Fabric, Deduct	*-25.09*	
		For Gate With Single Barb Wire Arm, Add	*31.73*	
		For Gate With Double Barb Wire Arm, Add	*46.15*	
32 31 13 13-0514	EA	10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	547.58	77.59
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-58.99*	
		For 1" Mesh Fabric, Add	*136.86*	
		For 1-1/4" Mesh Fabric, Add	*88.10*	
		For 1-3/4" Mesh Fabric, Add	*54.75*	
		For 2-1/8" Mesh Fabric, Deduct	*-27.37*	
		For Gate With Single Barb Wire Arm, Add	*34.61*	
		For Gate With Double Barb Wire Arm, Add	*50.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0515	EA	10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	744.35	90.74
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-88.49*	
		For 1" Mesh Fabric, Add	*205.29*	
		For 1-1/4" Mesh Fabric, Add	*132.14*	
		For 1-3/4" Mesh Fabric, Add	*82.12*	
		For 2-1/8" Mesh Fabric, Deduct	*-41.06*	
		For Gate With Single Barb Wire Arm, Add	*51.91*	
		For Gate With Double Barb Wire Arm, Add	*75.51*	
32 31 13 13-0516	EA	12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	859.59	97.61
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-106.19*	
		For 1" Mesh Fabric, Add	*246.35*	
		For 1-1/4" Mesh Fabric, Add	*158.57*	
		For 1-3/4" Mesh Fabric, Add	*98.54*	
		For 2-1/8" Mesh Fabric, Deduct	*-49.27*	
		For Gate With Single Barb Wire Arm, Add	*62.30*	
		For Gate With Double Barb Wire Arm, Add	*90.61*	
32 31 13 13-0517	EA	14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	978.53	105.87
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-123.89*	
		For 1" Mesh Fabric, Add	*287.41*	
		For 1-1/4" Mesh Fabric, Add	*185.00*	
		For 1-3/4" Mesh Fabric, Add	*114.97*	
		For 2-1/8" Mesh Fabric, Deduct	*-57.48*	
		For Gate With Single Barb Wire Arm, Add	*72.68*	
		For Gate With Double Barb Wire Arm, Add	*105.72*	
32 31 13 13-0518	EA	16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,101.67	115.41
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-141.58*	
		For 1" Mesh Fabric, Add	*328.47*	
		For 1-1/4" Mesh Fabric, Add	*211.43*	
		For 1-3/4" Mesh Fabric, Add	*131.39*	
		For 2-1/8" Mesh Fabric, Deduct	*-65.69*	
		For Gate With Single Barb Wire Arm, Add	*83.06*	
		For Gate With Double Barb Wire Arm, Add	*120.82*	
32 31 13 13-0519	EA	18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,230.87	126.99
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-159.28*	
		For 1" Mesh Fabric, Add	*369.53*	
		For 1-1/4" Mesh Fabric, Add	*237.86*	
		For 1-3/4" Mesh Fabric, Add	*147.81*	
		For 2-1/8" Mesh Fabric, Deduct	*-73.91*	
		For Gate With Single Barb Wire Arm, Add	*93.45*	
		For Gate With Double Barb Wire Arm, Add	*135.92*	
32 31 13 13-0520	EA	20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,367.42	141.04
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-176.98*	
		For 1" Mesh Fabric, Add	*410.59*	
		For 1-1/4" Mesh Fabric, Add	*264.29*	
		For 1-3/4" Mesh Fabric, Add	*164.24*	
		For 2-1/8" Mesh Fabric, Deduct	*-82.12*	
		For Gate With Single Barb Wire Arm, Add	*103.83*	
		For Gate With Double Barb Wire Arm, Add	*151.02*	
32 31 13 13-0521	EA	22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,514.99	158.74
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-194.68*	
		For 1" Mesh Fabric, Add	*451.65*	
		For 1-1/4" Mesh Fabric, Add	*290.72*	
		For 1-3/4" Mesh Fabric, Add	*180.66*	
		For 2-1/8" Mesh Fabric, Deduct	*-90.33*	
		For Gate With Single Barb Wire Arm, Add	*114.21*	
		For Gate With Double Barb Wire Arm, Add	*166.12*	
32 31 13 13-0522	EA	24 Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,677.14	181.27
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-212.38*	
		For 1" Mesh Fabric, Add	*492.71*	
		For 1-1/4" Mesh Fabric, Add	*317.15*	
		For 1-3/4" Mesh Fabric, Add	*197.08*	
		For 2-1/8" Mesh Fabric, Deduct	*-98.54*	
		For Gate With Single Barb Wire Arm, Add	*124.59*	
		For Gate With Double Barb Wire Arm, Add	*181.23*	
32 31 13 13-0523	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,862.66	211.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-230.07*	
		For 1" Mesh Fabric, Add	*533.77*	
		For 1-1/4" Mesh Fabric, Add	*343.57*	
		For 1-3/4" Mesh Fabric, Add	*213.51*	
		For 2-1/8" Mesh Fabric, Deduct	*-106.75*	
		For Gate With Single Barb Wire Arm, Add	*134.98*	
		For Gate With Double Barb Wire Arm, Add	*196.33*	
32 31 13 13-0524	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,083.49	253.78
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-247.77*	
		For 1" Mesh Fabric, Add	*574.83*	
		For 1-1/4" Mesh Fabric, Add	*370.00*	
		For 1-3/4" Mesh Fabric, Add	*229.93*	
		For 2-1/8" Mesh Fabric, Deduct	*-114.97*	
		For Gate With Single Barb Wire Arm, Add	*145.36*	
		For Gate With Double Barb Wire Arm, Add	*211.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0525	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,369.24	317.49
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-265.47*	
		For 1" Mesh Fabric, Add	*615.89*	
		For 1-1/4" Mesh Fabric, Add	*396.43*	
		For 1-3/4" Mesh Fabric, Add	*246.35*	
		For 2-1/8" Mesh Fabric, Deduct	*-123.18*	
		For Gate With Single Barb Wire Arm, Add	*155.74*	
		For Gate With Double Barb Wire Arm, Add	*226.53*	

32 31 13 13-0526 12' Fence Height *(32 31 13 13-0405)*

32 31 13 13-0527	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	277.76	37.70
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-30.85*	
		For 1" Mesh Fabric, Add	*71.57*	
		For 1-1/4" Mesh Fabric, Add	*46.07*	
		For 1-3/4" Mesh Fabric, Add	*28.63*	
		For 2-1/8" Mesh Fabric, Deduct	*-14.31*	
		For Gate With Single Barb Wire Arm, Add	*18.10*	
		For Gate With Double Barb Wire Arm, Add	*26.33*	
32 31 13 13-0528	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	332.46	37.70
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-41.11*	
		For 1" Mesh Fabric, Add	*95.37*	
		For 1-1/4" Mesh Fabric, Add	*61.39*	
		For 1-3/4" Mesh Fabric, Add	*38.15*	
		For 2-1/8" Mesh Fabric, Deduct	*-19.07*	
		For Gate With Single Barb Wire Arm, Add	*24.12*	
		For Gate With Double Barb Wire Arm, Add	*35.08*	
32 31 13 13-0529	EA	5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	377.31	39.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-48.74*	
		For 1" Mesh Fabric, Add	*113.07*	
		For 1-1/4" Mesh Fabric, Add	*72.78*	
		For 1-3/4" Mesh Fabric, Add	*45.23*	
		For 2-1/8" Mesh Fabric, Deduct	*-22.61*	
		For Gate With Single Barb Wire Arm, Add	*28.59*	
		For Gate With Double Barb Wire Arm, Add	*41.59*	
32 31 13 13-0530	EA	6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	439.65	48.51
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-55.09*	
		For 1" Mesh Fabric, Add	*127.82*	
		For 1-1/4" Mesh Fabric, Add	*82.27*	
		For 1-3/4" Mesh Fabric, Add	*51.13*	
		For 2-1/8" Mesh Fabric, Deduct	*-25.56*	
		For Gate With Single Barb Wire Arm, Add	*32.32*	
		For Gate With Double Barb Wire Arm, Add	*47.01*	
32 31 13 13-0531	EA	7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	505.76	58.05
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-62.16*	
		For 1" Mesh Fabric, Add	*144.20*	
		For 1-1/4" Mesh Fabric, Add	*92.82*	
		For 1-3/4" Mesh Fabric, Add	*57.68*	
		For 2-1/8" Mesh Fabric, Deduct	*-28.84*	
		For Gate With Single Barb Wire Arm, Add	*36.47*	
		For Gate With Double Barb Wire Arm, Add	*53.04*	
32 31 13 13-0532	EA	8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	570.95	67.23
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-69.22*	
		For 1" Mesh Fabric, Add	*160.59*	
		For 1-1/4" Mesh Fabric, Add	*103.37*	
		For 1-3/4" Mesh Fabric, Add	*64.24*	
		For 2-1/8" Mesh Fabric, Deduct	*-32.12*	
		For Gate With Single Barb Wire Arm, Add	*40.61*	
		For Gate With Double Barb Wire Arm, Add	*59.07*	
32 31 13 13-0533	EA	9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	637.05	76.67
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-76.28*	
		For 1" Mesh Fabric, Add	*176.98*	
		For 1-1/4" Mesh Fabric, Add	*113.92*	
		For 1-3/4" Mesh Fabric, Add	*70.79*	
		For 2-1/8" Mesh Fabric, Deduct	*-35.40*	
		For Gate With Single Barb Wire Arm, Add	*44.75*	
		For Gate With Double Barb Wire Arm, Add	*65.09*	
32 31 13 13-0534	EA	10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	699.38	86.12
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-82.64*	
		For 1" Mesh Fabric, Add	*191.72*	
		For 1-1/4" Mesh Fabric, Add	*123.41*	
		For 1-3/4" Mesh Fabric, Add	*76.69*	
		For 2-1/8" Mesh Fabric, Deduct	*-38.34*	
		For Gate With Single Barb Wire Arm, Add	*48.48*	
		For Gate With Double Barb Wire Arm, Add	*70.52*	
32 31 13 13-0535	EA	10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	963.44	100.83
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-123.92*	
		For 1" Mesh Fabric, Add	*287.48*	
		For 1-1/4" Mesh Fabric, Add	*185.05*	
		For 1-3/4" Mesh Fabric, Add	*114.99*	
		For 2-1/8" Mesh Fabric, Deduct	*-57.50*	
		For Gate With Single Barb Wire Arm, Add	*72.70*	
		For Gate With Double Barb Wire Arm, Add	*105.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0536	EA	12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,140.35	108.55
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-152.73*	
		For 1" Mesh Fabric, Add	*354.34*	
		For 1-1/4" Mesh Fabric, Add	*228.08*	
		For 1-3/4" Mesh Fabric, Add	*141.74*	
		For 2-1/8" Mesh Fabric, Deduct	*-70.87*	
		For Gate With Single Barb Wire Arm, Add	*89.60*	
		For Gate With Double Barb Wire Arm, Add	*130.33*	
32 31 13 13-0537	EA	14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,304.21	117.55
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-178.33*	
		For 1" Mesh Fabric, Add	*413.72*	
		For 1-1/4" Mesh Fabric, Add	*266.31*	
		For 1-3/4" Mesh Fabric, Add	*165.49*	
		For 2-1/8" Mesh Fabric, Deduct	*-82.74*	
		For Gate With Single Barb Wire Arm, Add	*104.62*	
		For Gate With Double Barb Wire Arm, Add	*152.17*	
32 31 13 13-0538	EA	16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,471.83	128.17
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-203.76*	
		For 1" Mesh Fabric, Add	*472.71*	
		For 1-1/4" Mesh Fabric, Add	*304.28*	
		For 1-3/4" Mesh Fabric, Add	*189.09*	
		For 2-1/8" Mesh Fabric, Deduct	*-94.54*	
		For Gate With Single Barb Wire Arm, Add	*119.54*	
		For Gate With Double Barb Wire Arm, Add	*173.87*	
32 31 13 13-0539	EA	18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,644.25	141.15
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-228.85*	
		For 1" Mesh Fabric, Add	*530.92*	
		For 1-1/4" Mesh Fabric, Add	*341.74*	
		For 1-3/4" Mesh Fabric, Add	*212.37*	
		For 2-1/8" Mesh Fabric, Deduct	*-106.18*	
		For Gate With Single Barb Wire Arm, Add	*134.26*	
		For Gate With Double Barb Wire Arm, Add	*195.28*	
32 31 13 13-0540	EA	20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,826.56	156.70
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-254.27*	
		For 1" Mesh Fabric, Add	*589.91*	
		For 1-1/4" Mesh Fabric, Add	*379.71*	
		For 1-3/4" Mesh Fabric, Add	*235.96*	
		For 2-1/8" Mesh Fabric, Deduct	*-117.98*	
		For Gate With Single Barb Wire Arm, Add	*149.17*	
		For Gate With Double Barb Wire Arm, Add	*216.98*	
32 31 13 13-0541	EA	22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,021.40	176.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-279.70*	
		For 1" Mesh Fabric, Add	*648.90*	
		For 1-1/4" Mesh Fabric, Add	*417.68*	
		For 1-3/4" Mesh Fabric, Add	*259.56*	
		For 2-1/8" Mesh Fabric, Deduct	*-129.78*	
		For Gate With Single Barb Wire Arm, Add	*164.09*	
		For Gate With Double Barb Wire Arm, Add	*238.68*	
32 31 13 13-0542	EA	24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,232.30	201.43
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-305.13*	
		For 1" Mesh Fabric, Add	*707.89*	
		For 1-1/4" Mesh Fabric, Add	*455.66*	
		For 1-3/4" Mesh Fabric, Add	*283.16*	
		For 2-1/8" Mesh Fabric, Deduct	*-141.58*	
		For Gate With Single Barb Wire Arm, Add	*179.01*	
		For Gate With Double Barb Wire Arm, Add	*260.37*	
32 31 13 13-0543	EA	26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,473.71	235.22
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-331.40*	
		For 1" Mesh Fabric, Add	*768.85*	
		For 1-1/4" Mesh Fabric, Add	*494.89*	
		For 1-3/4" Mesh Fabric, Add	*307.54*	
		For 2-1/8" Mesh Fabric, Deduct	*-153.77*	
		For Gate With Single Barb Wire Arm, Add	*194.42*	
		For Gate With Double Barb Wire Arm, Add	*282.80*	
32 31 13 13-0544	EA	28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,749.82	281.99
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-356.83*	
		For 1" Mesh Fabric, Add	*827.84*	
		For 1-1/4" Mesh Fabric, Add	*532.87*	
		For 1-3/4" Mesh Fabric, Add	*331.14*	
		For 2-1/8" Mesh Fabric, Deduct	*-165.57*	
		For Gate With Single Barb Wire Arm, Add	*209.34*	
		For Gate With Double Barb Wire Arm, Add	*304.49*	
32 31 13 13-0545	EA	30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,098.05	352.77
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	*-382.26*	
		For 1" Mesh Fabric, Add	*886.83*	
		For 1-1/4" Mesh Fabric, Add	*570.84*	
		For 1-3/4" Mesh Fabric, Add	*354.73*	
		For 2-1/8" Mesh Fabric, Deduct	*-177.37*	
		For Gate With Single Barb Wire Arm, Add	*224.26*	
		For Gate With Double Barb Wire Arm, Add	*326.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0546		**Chain Link Galvanized Steel Sliding Gate** *(32 31 13 13-0263)*		
		Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0630 for additonal gate accessories, 32 31 13 13-0755 for gate repacement parts.		
32 31 13 13-0547		**4' High Chain Link Galvanized Steel Sliding Gate** *(32 31 13 13-0546)*		
32 31 13 13-0548	EA	10' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,252.10	348.16
		For 1" Mesh Fabric, Add	*676.74*	
		For 1-1/4" Mesh Fabric, Add	*435.60*	
		For 1-3/4" Mesh Fabric, Add	*270.70*	
		For 2-1/8" Mesh Fabric, Deduct	*-135.35*	
		For Gate With Barb Wire Arm, Add	*171.13*	
		For Vinyl Coated, Add	*466.72*	
32 31 13 13-0549	EA	12' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,707.46	420.34
		For 1" Mesh Fabric, Add	*812.09*	
		For 1-1/4" Mesh Fabric, Add	*522.72*	
		For 1-3/4" Mesh Fabric, Add	*324.84*	
		For 2-1/8" Mesh Fabric, Deduct	*-162.42*	
		For Gate With Barb Wire Arm, Add	*205.36*	
		For Vinyl Coated, Add	*560.06*	
32 31 13 13-0550	EA	14' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,158.90	490.39
		For 1" Mesh Fabric, Add	*947.44*	
		For 1-1/4" Mesh Fabric, Add	*609.85*	
		For 1-3/4" Mesh Fabric, Add	*378.98*	
		For 2-1/8" Mesh Fabric, Deduct	*-189.49*	
		For Gate With Barb Wire Arm, Add	*239.58*	
		For Vinyl Coated, Add	*653.41*	
32 31 13 13-0551	EA	16' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,616.42	563.65
		For 1" Mesh Fabric, Add	*1,082.78*	
		For 1-1/4" Mesh Fabric, Add	*696.96*	
		For 1-3/4" Mesh Fabric, Add	*433.11*	
		For 2-1/8" Mesh Fabric, Deduct	*-216.56*	
		For Gate With Barb Wire Arm, Add	*273.81*	
		For Vinyl Coated, Add	*746.75*	
32 31 13 13-0552	EA	18' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,068.52	634.12
		For 1" Mesh Fabric, Add	*1,218.13*	
		For 1-1/4" Mesh Fabric, Add	*784.09*	
		For 1-3/4" Mesh Fabric, Add	*487.25*	
		For 2-1/8" Mesh Fabric, Deduct	*-243.63*	
		For Gate With Barb Wire Arm, Add	*308.03*	
		For Vinyl Coated, Add	*840.09*	
32 31 13 13-0553	EA	20' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,507.60	698.05
		For 1" Mesh Fabric, Add	*1,353.49*	
		For 1-1/4" Mesh Fabric, Add	*871.21*	
		For 1-3/4" Mesh Fabric, Add	*541.39*	
		For 2-1/8" Mesh Fabric, Deduct	*-270.70*	
		For Gate With Barb Wire Arm, Add	*342.26*	
		For Vinyl Coated, Add	*933.44*	
32 31 13 13-0554	EA	24' Long x 4' High Chain Link Galvanized Steel Sliding Gate	5,387.53	840.59
		For 1" Mesh Fabric, Add	*1,612.26*	
		For 1-1/4" Mesh Fabric, Add	*1,037.78*	
		For 1-3/4" Mesh Fabric, Add	*644.90*	
		For 2-1/8" Mesh Fabric, Deduct	*-322.45*	
		For Gate With Barb Wire Arm, Add	*407.70*	
		For Vinyl Coated, Add	*1,111.91*	
32 31 13 13-0555	EA	30' Long x 4' High Chain Link Galvanized Steel Sliding Gate	7,840.52	1,586.68
		For 1" Mesh Fabric, Add	*2,030.22*	
		For 1-1/4" Mesh Fabric, Add	*1,306.81*	
		For 1-3/4" Mesh Fabric, Add	*812.09*	
		For 2-1/8" Mesh Fabric, Deduct	*-406.04*	
		For Gate With Barb Wire Arm, Add	*513.39*	
		For Vinyl Coated, Add	*1,400.15*	
32 31 13 13-0556	EA	40' Long x 4' High Chain Link Galvanized Steel Sliding Gate	10,454.02	2,115.58
		For 1" Mesh Fabric, Add	*2,706.96*	
		For 1-1/4" Mesh Fabric, Add	*1,742.41*	
		For 1-3/4" Mesh Fabric, Add	*1,082.78*	
		For 2-1/8" Mesh Fabric, Deduct	*-541.39*	
		For Gate With Barb Wire Arm, Add	*684.52*	
		For Vinyl Coated, Add	*1,866.87*	
32 31 13 13-0557		**5' High Chain Link Galvanized Steel Sliding Gate** *(32 31 13 13-0546)*		
32 31 13 13-0558	EA	10' Long x 5' High Chain Link Galvanized Steel Sliding Gate	2,359.33	378.94
		For 1" Mesh Fabric, Add	*696.63*	
		For 1-1/4" Mesh Fabric, Add	*448.41*	
		For 1-3/4" Mesh Fabric, Add	*278.65*	
		For 2-1/8" Mesh Fabric, Deduct	*-139.33*	
		For Gate With Barb Wire Arm, Add	*176.16*	
		For Vinyl Coated, Add	*480.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0559	EA	12' Long x 5' High Chain Link Galvanized Steel Sliding Gate	2,830.13	454.24
		For 1" Mesh Fabric, Add	*835.96*	
		For 1-1/4" Mesh Fabric, Add	*538.09*	
		For 1-3/4" Mesh Fabric, Add	*334.38*	
		For 2-1/8" Mesh Fabric, Deduct	*-167.19*	
		For Gate With Barb Wire Arm, Add	*211.39*	
		For Vinyl Coated, Add	*576.52*	
32 31 13 13-0560	EA	14' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,301.64	529.86
		For 1" Mesh Fabric, Add	*975.28*	
		For 1-1/4" Mesh Fabric, Add	*627.77*	
		For 1-3/4" Mesh Fabric, Add	*390.11*	
		For 2-1/8" Mesh Fabric, Deduct	*-195.06*	
		For Gate With Barb Wire Arm, Add	*246.62*	
		For Vinyl Coated, Add	*672.61*	
32 31 13 13-0561	EA	16' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,773.60	605.69
		For 1" Mesh Fabric, Add	*1,114.61*	
		For 1-1/4" Mesh Fabric, Add	*717.45*	
		For 1-3/4" Mesh Fabric, Add	*445.84*	
		For 2-1/8" Mesh Fabric, Deduct	*-222.92*	
		For Gate With Barb Wire Arm, Add	*281.86*	
		For Vinyl Coated, Add	*768.70*	
32 31 13 13-0562	EA	18' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,245.05	681.20
		For 1" Mesh Fabric, Add	*1,253.93*	
		For 1-1/4" Mesh Fabric, Add	*807.13*	
		For 1-3/4" Mesh Fabric, Add	*501.57*	
		For 2-1/8" Mesh Fabric, Deduct	*-250.79*	
		For Gate With Barb Wire Arm, Add	*317.09*	
		For Vinyl Coated, Add	*864.78*	
32 31 13 13-0563	EA	20' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,716.78	756.93
		For 1" Mesh Fabric, Add	*1,393.26*	
		For 1-1/4" Mesh Fabric, Add	*896.81*	
		For 1-3/4" Mesh Fabric, Add	*557.30*	
		For 2-1/8" Mesh Fabric, Deduct	*-278.65*	
		For Gate With Barb Wire Arm, Add	*352.32*	
		For Vinyl Coated, Add	*960.87*	
32 31 13 13-0564	EA	24' Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,634.00	909.34
		For 1" Mesh Fabric, Add	*1,659.65*	
		For 1-1/4" Mesh Fabric, Add	*1,068.28*	
		For 1-3/4" Mesh Fabric, Add	*663.86*	
		For 2-1/8" Mesh Fabric, Deduct	*-331.93*	
		For Gate With Barb Wire Arm, Add	*419.68*	
		For Vinyl Coated, Add	*1,144.58*	
32 31 13 13-0565	EA	30' Long x 5' High Chain Link Galvanized Steel Sliding Gate	7,075.57	1,135.66
		For 1" Mesh Fabric, Add	*2,089.89*	
		For 1-1/4" Mesh Fabric, Add	*1,345.22*	
		For 1-3/4" Mesh Fabric, Add	*835.96*	
		For 2-1/8" Mesh Fabric, Deduct	*-417.98*	
		For Gate With Barb Wire Arm, Add	*528.48*	
		For Vinyl Coated, Add	*1,441.30*	
32 31 13 13-0566	EA	40' Long x 5' High Chain Link Galvanized Steel Sliding Gate	9,433.56	1,513.85
		For 1" Mesh Fabric, Add	*2,786.52*	
		For 1-1/4" Mesh Fabric, Add	*1,793.62*	
		For 1-3/4" Mesh Fabric, Add	*1,114.61*	
		For 2-1/8" Mesh Fabric, Deduct	*-557.30*	
		For Gate With Barb Wire Arm, Add	*704.64*	
		For Vinyl Coated, Add	*1,921.74*	

32 31 13 13-0567 6' High Chain Link Galvanized Steel Sliding Gate *(32 31 13 13-0546)*

32 31 13 13-0568	EA	10' Long x 6' High Chain Link Galvanized Steel Sliding Gate	2,521.90	444.27
		For 1" Mesh Fabric, Add	*710.55*	
		For 1-1/4" Mesh Fabric, Add	*457.37*	
		For 1-3/4" Mesh Fabric, Add	*284.22*	
		For 2-1/8" Mesh Fabric, Deduct	*-142.11*	
		For Gate With Barb Wire Arm, Add	*179.68*	
		For Vinyl Coated, Add	*490.04*	
32 31 13 13-0569	EA	12' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,023.18	531.47
		For 1" Mesh Fabric, Add	*852.67*	
		For 1-1/4" Mesh Fabric, Add	*548.84*	
		For 1-3/4" Mesh Fabric, Add	*341.07*	
		For 2-1/8" Mesh Fabric, Deduct	*-170.53*	
		For Gate With Barb Wire Arm, Add	*215.62*	
		For Vinyl Coated, Add	*588.05*	
32 31 13 13-0570	EA	14' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,526.83	619.96
		For 1" Mesh Fabric, Add	*994.78*	
		For 1-1/4" Mesh Fabric, Add	*640.32*	
		For 1-3/4" Mesh Fabric, Add	*397.91*	
		For 2-1/8" Mesh Fabric, Deduct	*-198.96*	
		For Gate With Barb Wire Arm, Add	*251.55*	
		For Vinyl Coated, Add	*686.05*	
32 31 13 13-0571	EA	16' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,030.89	708.66
		For 1" Mesh Fabric, Add	*1,136.89*	
		For 1-1/4" Mesh Fabric, Add	*731.79*	
		For 1-3/4" Mesh Fabric, Add	*454.75*	
		For 2-1/8" Mesh Fabric, Deduct	*-227.38*	
		For Gate With Barb Wire Arm, Add	*287.49*	
		For Vinyl Coated, Add	*784.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0572	EA	18' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,534.55	797.14
		For 1" Mesh Fabric, Add	*1,279.00*	
		For 1-1/4" Mesh Fabric, Add	*823.26*	
		For 1-3/4" Mesh Fabric, Add	*511.60*	
		For 2-1/8" Mesh Fabric, Deduct	*-255.80*	
		For Gate With Barb Wire Arm, Add	*323.42*	
		For Vinyl Coated, Add	*882.07*	
32 31 13 13-0573	EA	20' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,044.19	888.64
		For 1" Mesh Fabric, Add	*1,421.11*	
		For 1-1/4" Mesh Fabric, Add	*914.73*	
		For 1-3/4" Mesh Fabric, Add	*568.44*	
		For 2-1/8" Mesh Fabric, Deduct	*-284.22*	
		For Gate With Barb Wire Arm, Add	*359.36*	
		For Vinyl Coated, Add	*980.07*	
32 31 13 13-0574	EA	24' Long x 6' High Chain Link Galvanized Steel Sliding Gate	6,017.57	1,063.04
		For 1" Mesh Fabric, Add	*1,692.82*	
		For 1-1/4" Mesh Fabric, Add	*1,089.63*	
		For 1-3/4" Mesh Fabric, Add	*677.13*	
		For 2-1/8" Mesh Fabric, Deduct	*-338.56*	
		For Gate With Barb Wire Arm, Add	*428.07*	
		For Vinyl Coated, Add	*1,167.46*	
32 31 13 13-0575	EA	30' Long x 6' High Chain Link Galvanized Steel Sliding Gate	7,558.57	1,329.16
		For 1" Mesh Fabric, Add	*2,131.66*	
		For 1-1/4" Mesh Fabric, Add	*1,372.10*	
		For 1-3/4" Mesh Fabric, Add	*852.66*	
		For 2-1/8" Mesh Fabric, Deduct	*-426.33*	
		For Gate With Barb Wire Arm, Add	*539.04*	
		For Vinyl Coated, Add	*1,470.11*	
32 31 13 13-0576	EA	40' Long x 6' High Chain Link Galvanized Steel Sliding Gate	10,076.64	1,771.38
		For 1" Mesh Fabric, Add	*2,842.21*	
		For 1-1/4" Mesh Fabric, Add	*1,829.47*	
		For 1-3/4" Mesh Fabric, Add	*1,136.88*	
		For 2-1/8" Mesh Fabric, Deduct	*-568.44*	
		For Gate With Barb Wire Arm, Add	*718.72*	
		For Vinyl Coated, Add	*1,960.15*	

32 31 13 13-0577 7' High Chain Link Galvanized Steel Sliding Gate *(32 31 13 13-0546)*

32 31 13 13-0578	EA	10' Long x 7' High Chain Link Galvanized Steel Sliding Gate	2,688.54	495.54
		For 1" Mesh Fabric, Add	*738.40*	
		For 1-1/4" Mesh Fabric, Add	*475.29*	
		For 1-3/4" Mesh Fabric, Add	*295.36*	
		For 2-1/8" Mesh Fabric, Deduct	*-147.68*	
		For Gate With Barb Wire Arm, Add	*186.72*	
		For Vinyl Coated, Add	*509.24*	
32 31 13 13-0579	EA	12' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,225.48	594.21
		For 1" Mesh Fabric, Add	*886.10*	
		For 1-1/4" Mesh Fabric, Add	*570.37*	
		For 1-3/4" Mesh Fabric, Add	*354.44*	
		For 2-1/8" Mesh Fabric, Deduct	*-177.22*	
		For Gate With Barb Wire Arm, Add	*224.07*	
		For Vinyl Coated, Add	*611.11*	
32 31 13 13-0580	EA	14' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,764.02	693.75
		For 1" Mesh Fabric, Add	*1,033.76*	
		For 1-1/4" Mesh Fabric, Add	*665.41*	
		For 1-3/4" Mesh Fabric, Add	*413.50*	
		For 2-1/8" Mesh Fabric, Deduct	*-206.75*	
		For Gate With Barb Wire Arm, Add	*261.41*	
		For Vinyl Coated, Add	*712.94*	
32 31 13 13-0581	EA	16' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,300.86	792.43
		For 1" Mesh Fabric, Add	*1,181.44*	
		For 1-1/4" Mesh Fabric, Add	*760.47*	
		For 1-3/4" Mesh Fabric, Add	*472.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-236.29*	
		For Gate With Barb Wire Arm, Add	*298.75*	
		For Vinyl Coated, Add	*814.79*	
32 31 13 13-0582	EA	18' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,838.63	891.65
		For 1" Mesh Fabric, Add	*1,329.12*	
		For 1-1/4" Mesh Fabric, Add	*855.52*	
		For 1-3/4" Mesh Fabric, Add	*531.65*	
		For 2-1/8" Mesh Fabric, Deduct	*-265.82*	
		For Gate With Barb Wire Arm, Add	*336.10*	
		For Vinyl Coated, Add	*916.63*	
32 31 13 13-0583	EA	20' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,375.72	990.43
		For 1" Mesh Fabric, Add	*1,476.80*	
		For 1-1/4" Mesh Fabric, Add	*950.58*	
		For 1-3/4" Mesh Fabric, Add	*590.72*	
		For 2-1/8" Mesh Fabric, Deduct	*-295.36*	
		For Gate With Barb Wire Arm, Add	*373.44*	
		For Vinyl Coated, Add	*1,018.48*	
32 31 13 13-0584	EA	24' Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,420.97	1,188.42
		For 1" Mesh Fabric, Add	*1,759.16*	
		For 1-1/4" Mesh Fabric, Add	*1,132.33*	
		For 1-3/4" Mesh Fabric, Add	*703.66*	
		For 2-1/8" Mesh Fabric, Deduct	*-351.83*	
		For Gate With Barb Wire Arm, Add	*444.84*	
		For Vinyl Coated, Add	*1,213.21*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0585	EA	30' Long x 7' High Chain Link Galvanized Steel Sliding Gate	8,063.55	1,485.54
		For 1" Mesh Fabric, Add	*2,215.19*	
		For 1-1/4" Mesh Fabric, Add	*1,425.87*	
		For 1-3/4" Mesh Fabric, Add	*886.08*	
		For 2-1/8" Mesh Fabric, Deduct	*-443.04*	
		For Gate With Barb Wire Arm, Add	*560.16*	
		For Vinyl Coated, Add	*1,527.72*	
32 31 13 13-0586	EA	40' Long x 7' High Chain Link Galvanized Steel Sliding Gate	10,751.41	1,980.75
		For 1" Mesh Fabric, Add	*2,953.59*	
		For 1-1/4" Mesh Fabric, Add	*1,901.16*	
		For 1-3/4" Mesh Fabric, Add	*1,181.44*	
		For 2-1/8" Mesh Fabric, Deduct	*-590.72*	
		For Gate With Barb Wire Arm, Add	*746.88*	
		For Vinyl Coated, Add	*2,036.96*	

32 31 13 13-0587 8' High Chain Link Galvanized Steel Sliding Gate *(32 31 13 13-0546)*

32 31 13 13-0588	EA	10' Long x 8' High Chain Link Galvanized Steel Sliding Gate	2,821.43	536.83
		For 1" Mesh Fabric, Add	*760.28*	
		For 1-1/4" Mesh Fabric, Add	*489.38*	
		For 1-3/4" Mesh Fabric, Add	*304.11*	
		For 2-1/8" Mesh Fabric, Deduct	*-152.06*	
		For Gate With Barb Wire Arm, Add	*192.25*	
		For Vinyl Coated, Add	*524.33*	
32 31 13 13-0589	EA	12' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,382.62	642.69
		For 1" Mesh Fabric, Add	*912.33*	
		For 1-1/4" Mesh Fabric, Add	*587.25*	
		For 1-3/4" Mesh Fabric, Add	*364.93*	
		For 2-1/8" Mesh Fabric, Deduct	*-182.47*	
		For Gate With Barb Wire Arm, Add	*230.71*	
		For Vinyl Coated, Add	*629.20*	
32 31 13 13-0590	EA	14' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,946.46	749.85
		For 1" Mesh Fabric, Add	*1,064.38*	
		For 1-1/4" Mesh Fabric, Add	*685.12*	
		For 1-3/4" Mesh Fabric, Add	*425.75*	
		For 2-1/8" Mesh Fabric, Deduct	*-212.88*	
		For Gate With Barb Wire Arm, Add	*269.15*	
		For Vinyl Coated, Add	*734.06*	
32 31 13 13-0591	EA	16' Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,510.50	857.00
		For 1" Mesh Fabric, Add	*1,216.44*	
		For 1-1/4" Mesh Fabric, Add	*782.99*	
		For 1-3/4" Mesh Fabric, Add	*486.58*	
		For 2-1/8" Mesh Fabric, Deduct	*-243.29*	
		For Gate With Barb Wire Arm, Add	*307.61*	
		For Vinyl Coated, Add	*838.92*	
32 31 13 13-0592	EA	18' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,073.35	963.72
		For 1" Mesh Fabric, Add	*1,368.50*	
		For 1-1/4" Mesh Fabric, Add	*880.87*	
		For 1-3/4" Mesh Fabric, Add	*547.40*	
		For 2-1/8" Mesh Fabric, Deduct	*-273.70*	
		For Gate With Barb Wire Arm, Add	*346.06*	
		For Vinyl Coated, Add	*943.79*	
32 31 13 13-0593	EA	20' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,637.49	1,070.98
		For 1" Mesh Fabric, Add	*1,520.55*	
		For 1-1/4" Mesh Fabric, Add	*978.75*	
		For 1-3/4" Mesh Fabric, Add	*608.22*	
		For 2-1/8" Mesh Fabric, Deduct	*-304.11*	
		For Gate With Barb Wire Arm, Add	*384.51*	
		For Vinyl Coated, Add	*1,048.66*	
32 31 13 13-0594	EA	24' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,734.48	1,285.28
		For 1" Mesh Fabric, Add	*1,811.28*	
		For 1-1/4" Mesh Fabric, Add	*1,165.88*	
		For 1-3/4" Mesh Fabric, Add	*724.51*	
		For 2-1/8" Mesh Fabric, Deduct	*-362.26*	
		For Gate With Barb Wire Arm, Add	*458.02*	
		For Vinyl Coated, Add	*1,249.16*	
32 31 13 13-0595	EA	30' Long x 8' High Chain Link Galvanized Steel Sliding Gate	8,457.04	1,606.85
		For 1" Mesh Fabric, Add	*2,280.83*	
		For 1-1/4" Mesh Fabric, Add	*1,468.12*	
		For 1-3/4" Mesh Fabric, Add	*912.33*	
		For 2-1/8" Mesh Fabric, Deduct	*-456.17*	
		For Gate With Barb Wire Arm, Add	*576.76*	
		For Vinyl Coated, Add	*1,572.99*	
32 31 13 13-0596	EA	40' Long x 8' High Chain Link Galvanized Steel Sliding Gate	11,272.84	2,140.89
		For 1" Mesh Fabric, Add	*3,041.10*	
		For 1-1/4" Mesh Fabric, Add	*1,957.49*	
		For 1-3/4" Mesh Fabric, Add	*1,216.44*	
		For 2-1/8" Mesh Fabric, Deduct	*-608.22*	
		For Gate With Barb Wire Arm, Add	*769.01*	
		For Vinyl Coated, Add	*2,097.31*	

32 31 13 13-0597 9' High Chain Link Galvanized Steel Sliding Gate *(32 31 13 13-0546)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0598	EA	10' Long x 9' High Chain Link Galvanized Steel Sliding Gate	2,978.47	585.63
		For 1" Mesh Fabric, Add	*786.13*	
		For 1-1/4" Mesh Fabric, Add	*506.02*	
		For 1-3/4" Mesh Fabric, Add	*314.45*	
		For 2-1/8" Mesh Fabric, Deduct	*-157.23*	
		For Gate With Barb Wire Arm, Add	*198.79*	
		For Vinyl Coated, Add	*542.16*	
32 31 13 13-0599	EA	12' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,569.80	700.61
		For 1" Mesh Fabric, Add	*943.36*	
		For 1-1/4" Mesh Fabric, Add	*607.22*	
		For 1-3/4" Mesh Fabric, Add	*377.34*	
		For 2-1/8" Mesh Fabric, Deduct	*-188.67*	
		For Gate With Barb Wire Arm, Add	*238.55*	
		For Vinyl Coated, Add	*650.59*	
32 31 13 13-0600	EA	14' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,164.51	817.21
		For 1" Mesh Fabric, Add	*1,100.59*	
		For 1-1/4" Mesh Fabric, Add	*708.43*	
		For 1-3/4" Mesh Fabric, Add	*440.24*	
		For 2-1/8" Mesh Fabric, Deduct	*-220.12*	
		For Gate With Barb Wire Arm, Add	*278.31*	
		For Vinyl Coated, Add	*759.03*	
32 31 13 13-0601	EA	16' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,760.14	934.34
		For 1" Mesh Fabric, Add	*1,257.81*	
		For 1-1/4" Mesh Fabric, Add	*809.63*	
		For 1-3/4" Mesh Fabric, Add	*503.12*	
		For 2-1/8" Mesh Fabric, Deduct	*-251.56*	
		For Gate With Barb Wire Arm, Add	*318.07*	
		For Vinyl Coated, Add	*867.46*	
32 31 13 13-0602	EA	18' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,355.05	1,051.03
		For 1" Mesh Fabric, Add	*1,415.04*	
		For 1-1/4" Mesh Fabric, Add	*910.83*	
		For 1-3/4" Mesh Fabric, Add	*566.02*	
		For 2-1/8" Mesh Fabric, Deduct	*-283.01*	
		For Gate With Barb Wire Arm, Add	*357.83*	
		For Vinyl Coated, Add	*975.89*	
32 31 13 13-0603	EA	20' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,949.93	1,167.73
		For 1" Mesh Fabric, Add	*1,572.27*	
		For 1-1/4" Mesh Fabric, Add	*1,012.03*	
		For 1-3/4" Mesh Fabric, Add	*628.91*	
		For 2-1/8" Mesh Fabric, Deduct	*-314.45*	
		For Gate With Barb Wire Arm, Add	*397.59*	
		For Vinyl Coated, Add	*1,084.32*	
32 31 13 13-0604	EA	24' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,107.79	1,401.12
		For 1" Mesh Fabric, Add	*1,872.88*	
		For 1-1/4" Mesh Fabric, Add	*1,205.53*	
		For 1-3/4" Mesh Fabric, Add	*749.15*	
		For 2-1/8" Mesh Fabric, Deduct	*-374.58*	
		For Gate With Barb Wire Arm, Add	*473.60*	
		For Vinyl Coated, Add	*1,291.64*	
32 31 13 13-0605	EA	30' Long x 9' High Chain Link Galvanized Steel Sliding Gate	8,923.93	1,751.22
		For 1" Mesh Fabric, Add	*2,358.40*	
		For 1-1/4" Mesh Fabric, Add	*1,518.05*	
		For 1-3/4" Mesh Fabric, Add	*943.36*	
		For 2-1/8" Mesh Fabric, Deduct	*-471.68*	
		For Gate With Barb Wire Arm, Add	*596.38*	
		For Vinyl Coated, Add	*1,626.48*	
32 31 13 13-0606	EA	40' Long x 9' High Chain Link Galvanized Steel Sliding Gate	11,902.41	2,336.85
		For 1" Mesh Fabric, Add	*3,144.53*	
		For 1-1/4" Mesh Fabric, Add	*2,024.07*	
		For 1-3/4" Mesh Fabric, Add	*1,257.81*	
		For 2-1/8" Mesh Fabric, Deduct	*-628.91*	
		For Gate With Barb Wire Arm, Add	*795.17*	
		For Vinyl Coated, Add	*2,168.64*	

32 31 13 13-0607 10' High Chain Link Galvanized Steel Sliding Gate *(32 31 13 13-0546)*

32 31 13 13-0608	EA	10' Long x 10' High Chain Link Galvanized Steel Sliding Gate	3,173.33	644.19
		For 1" Mesh Fabric, Add	*819.94*	
		For 1-1/4" Mesh Fabric, Add	*527.78*	
		For 1-3/4" Mesh Fabric, Add	*327.98*	
		For 2-1/8" Mesh Fabric, Deduct	*-163.99*	
		For Gate With Barb Wire Arm, Add	*207.34*	
		For Vinyl Coated, Add	*565.48*	
32 31 13 13-0609	EA	12' Long x 10' High Chain Link Galvanized Steel Sliding Gate	3,807.99	773.02
		For 1" Mesh Fabric, Add	*983.94*	
		For 1-1/4" Mesh Fabric, Add	*633.34*	
		For 1-3/4" Mesh Fabric, Add	*393.57*	
		For 2-1/8" Mesh Fabric, Deduct	*-196.79*	
		For Gate With Barb Wire Arm, Add	*248.81*	
		For Vinyl Coated, Add	*678.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0610	EA	14' Long x 10' High Chain Link Galvanized Steel Sliding Gate	4,443.09	902.04
		For 1" Mesh Fabric, Add	*1,147.93*	
		For 1-1/4" Mesh Fabric, Add	*738.89*	
		For 1-3/4" Mesh Fabric, Add	*459.17*	
		For 2-1/8" Mesh Fabric, Deduct	*-229.59*	
		For Gate With Barb Wire Arm, Add	*290.28*	
		For Vinyl Coated, Add	*791.67*	
32 31 13 13-0611	EA	16' Long x 10' High Chain Link Galvanized Steel Sliding Gate	5,077.57	1,030.87
		For 1" Mesh Fabric, Add	*1,311.91*	
		For 1-1/4" Mesh Fabric, Add	*844.45*	
		For 1-3/4" Mesh Fabric, Add	*524.76*	
		For 2-1/8" Mesh Fabric, Deduct	*-262.38*	
		For Gate With Barb Wire Arm, Add	*331.75*	
		For Vinyl Coated, Add	*904.77*	
32 31 13 13-0612	EA	18' Long x 10' High Chain Link Galvanized Steel Sliding Gate	5,711.99	1,159.57
		For 1" Mesh Fabric, Add	*1,475.90*	
		For 1-1/4" Mesh Fabric, Add	*950.00*	
		For 1-3/4" Mesh Fabric, Add	*590.36*	
		For 2-1/8" Mesh Fabric, Deduct	*-295.18*	
		For Gate With Barb Wire Arm, Add	*373.22*	
		For Vinyl Coated, Add	*1,017.86*	
32 31 13 13-0613	EA	20' Long x 10' High Chain Link Galvanized Steel Sliding Gate	6,346.65	1,288.40
		For 1" Mesh Fabric, Add	*1,639.89*	
		For 1-1/4" Mesh Fabric, Add	*1,055.56*	
		For 1-3/4" Mesh Fabric, Add	*655.96*	
		For 2-1/8" Mesh Fabric, Deduct	*-327.98*	
		For Gate With Barb Wire Arm, Add	*414.68*	
		For Vinyl Coated, Add	*1,130.96*	
32 31 13 13-0614	EA	24' Long x 10' High Chain Link Galvanized Steel Sliding Gate	7,583.91	1,546.67
		For 1" Mesh Fabric, Add	*1,953.43*	
		For 1-1/4" Mesh Fabric, Add	*1,257.38*	
		For 1-3/4" Mesh Fabric, Add	*781.37*	
		For 2-1/8" Mesh Fabric, Deduct	*-390.69*	
		For Gate With Barb Wire Arm, Add	*493.97*	
		For Vinyl Coated, Add	*1,347.20*	
32 31 13 13-0615	EA	30' Long x 10' High Chain Link Galvanized Steel Sliding Gate	9,519.98	1,932.59
		For 1" Mesh Fabric, Add	*2,459.83*	
		For 1-1/4" Mesh Fabric, Add	*1,583.34*	
		For 1-3/4" Mesh Fabric, Add	*983.93*	
		For 2-1/8" Mesh Fabric, Deduct	*-491.97*	
		For Gate With Barb Wire Arm, Add	*622.03*	
		For Vinyl Coated, Add	*1,696.44*	
32 31 13 13-0616	EA	40' Long x 10' High Chain Link Galvanized Steel Sliding Gate	12,690.22	2,575.28
		For 1" Mesh Fabric, Add	*3,279.78*	
		For 1-1/4" Mesh Fabric, Add	*2,111.12*	
		For 1-3/4" Mesh Fabric, Add	*1,311.91*	
		For 2-1/8" Mesh Fabric, Deduct	*-655.96*	
		For Gate With Barb Wire Arm, Add	*829.37*	
		For Vinyl Coated, Add	*2,261.92*	

32 31 13 13-0617 Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller *(32 31 13 13-0263)*

Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.

32 31 13 13-0618	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate	4,847.75	429.03
		For 1" Mesh Fabric, Add	*1,735.51*	
		For 1-1/4" Mesh Fabric, Add	*1,117.11*	
		For 1-3/4" Mesh Fabric, Add	*694.20*	
		For 2-1/8" Mesh Fabric, Deduct	*-347.10*	
		For Gate With Single Barb Wire Arm, Add	*438.86*	
		For Gate With Double Barb Wire Arm, Add	*638.35*	
		For Aluminized Steel Gate And Post, Add	*1,915.04*	
		For Powder Coated Gate And Post, Add	*837.83*	
		For Vinyl Coated, Add	*1,196.90*	
32 31 13 13-0619	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate	5,333.85	536.30
		For 1" Mesh Fabric, Add	*1,853.65*	
		For 1-1/4" Mesh Fabric, Add	*1,193.15*	
		For 1-3/4" Mesh Fabric, Add	*741.46*	
		For 2-1/8" Mesh Fabric, Deduct	*-370.73*	
		For Gate With Single Barb Wire Arm, Add	*468.74*	
		For Gate With Double Barb Wire Arm, Add	*681.80*	
		For Aluminized Steel Gate And Post, Add	*2,045.40*	
		For Powder Coated Gate And Post, Add	*894.86*	
		For Vinyl Coated, Add	*1,278.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0620	EA	5' High x 15' Wide Galvanized Cantilever Sliding Gate	5,823.69	643.55
		For 1" Mesh Fabric, Add	*1,973.41*	
		For 1-1/4" Mesh Fabric, Add	*1,270.24*	
		For 1-3/4" Mesh Fabric, Add	*789.36*	
		For 2-1/8" Mesh Fabric, Deduct	*-394.68*	
		For Gate With Single Barb Wire Arm, Add	*499.02*	
		For Gate With Double Barb Wire Arm, Add	*725.85*	
		For Aluminized Steel Gate And Post, Add	*2,177.56*	
		For Powder Coated Gate And Post, Add	*952.68*	
		For Vinyl Coated, Add	*1,360.97*	
32 31 13 13-0621	EA	5' High x 20' Wide Galvanized Cantilever Sliding Gate	6,857.60	858.08
		For 1" Mesh Fabric, Add	*2,236.54*	
		For 1-1/4" Mesh Fabric, Add	*1,439.61*	
		For 1-3/4" Mesh Fabric, Add	*894.61*	
		For 2-1/8" Mesh Fabric, Deduct	*-447.31*	
		For Gate With Single Barb Wire Arm, Add	*565.56*	
		For Gate With Double Barb Wire Arm, Add	*822.63*	
		For Aluminized Steel Gate And Post, Add	*2,467.90*	
		For Powder Coated Gate And Post, Add	*1,079.71*	
		For Vinyl Coated, Add	*1,542.44*	
32 31 13 13-0622	EA	6' High x 15' Wide Galvanized Cantilever Sliding Gate	6,388.28	858.08
		For 1" Mesh Fabric, Add	*2,032.38*	
		For 1-1/4" Mesh Fabric, Add	*1,308.20*	
		For 1-3/4" Mesh Fabric, Add	*812.95*	
		For 2-1/8" Mesh Fabric, Deduct	*-406.48*	
		For Gate With Single Barb Wire Arm, Add	*513.94*	
		For Gate With Double Barb Wire Arm, Add	*747.54*	
		For Aluminized Steel Gate And Post, Add	*2,242.63*	
		For Powder Coated Gate And Post, Add	*981.15*	
		For Vinyl Coated, Add	*1,401.64*	
32 31 13 13-0623	EA	6' High x 20' Wide Galvanized Cantilever Sliding Gate	7,514.21	1,126.21
		For 1" Mesh Fabric, Add	*2,288.87*	
		For 1-1/4" Mesh Fabric, Add	*1,473.30*	
		For 1-3/4" Mesh Fabric, Add	*915.55*	
		For 2-1/8" Mesh Fabric, Deduct	*-457.77*	
		For Gate With Single Barb Wire Arm, Add	*578.79*	
		For Gate With Double Barb Wire Arm, Add	*841.88*	
		For Aluminized Steel Gate And Post, Add	*2,525.65*	
		For Powder Coated Gate And Post, Add	*1,104.97*	
		For Vinyl Coated, Add	*1,578.53*	
32 31 13 13-0624	EA	6' High x 25' Wide Galvanized Cantilever Sliding Gate	9,940.23	1,394.36
		For 1" Mesh Fabric, Add	*3,110.90*	
		For 1-1/4" Mesh Fabric, Add	*2,002.42*	
		For 1-3/4" Mesh Fabric, Add	*1,244.36*	
		For 2-1/8" Mesh Fabric, Deduct	*-622.18*	
		For Gate With Single Barb Wire Arm, Add	*786.66*	
		For Gate With Double Barb Wire Arm, Add	*1,144.24*	
		For Aluminized Steel Gate And Post, Add	*3,432.72*	
		For Powder Coated Gate And Post, Add	*1,501.81*	
		For Vinyl Coated, Add	*2,145.45*	
32 31 13 13-0625	EA	6' High x 30' Wide Galvanized Cantilever Sliding Gate	11,217.59	1,662.51
		For 1" Mesh Fabric, Add	*3,433.26*	
		For 1-1/4" Mesh Fabric, Add	*2,209.92*	
		For 1-3/4" Mesh Fabric, Add	*1,373.31*	
		For 2-1/8" Mesh Fabric, Deduct	*-686.65*	
		For Gate With Single Barb Wire Arm, Add	*868.18*	
		For Gate With Double Barb Wire Arm, Add	*1,262.81*	
		For Aluminized Steel Gate And Post, Add	*3,788.43*	
		For Powder Coated Gate And Post, Add	*1,657.44*	
		For Vinyl Coated, Add	*2,367.77*	
32 31 13 13-0626	EA	8' High x 15' Wide Galvanized Cantilever Sliding Gate	7,490.61	1,072.59
		For 1" Mesh Fabric, Add	*2,325.26*	
		For 1-1/4" Mesh Fabric, Add	*1,496.72*	
		For 1-3/4" Mesh Fabric, Add	*930.10*	
		For 2-1/8" Mesh Fabric, Deduct	*-465.05*	
		For Gate With Single Barb Wire Arm, Add	*588.00*	
		For Gate With Double Barb Wire Arm, Add	*855.27*	
		For Aluminized Steel Gate And Post, Add	*2,565.81*	
		For Powder Coated Gate And Post, Add	*1,122.54*	
		For Vinyl Coated, Add	*1,603.63*	
32 31 13 13-0627	EA	8' High x 20' Wide Galvanized Cantilever Sliding Gate	8,915.01	1,447.99
		For 1" Mesh Fabric, Add	*2,618.27*	
		For 1-1/4" Mesh Fabric, Add	*1,685.33*	
		For 1-3/4" Mesh Fabric, Add	*1,047.31*	
		For 2-1/8" Mesh Fabric, Deduct	*-523.65*	
		For Gate With Single Barb Wire Arm, Add	*662.09*	
		For Gate With Double Barb Wire Arm, Add	*963.04*	
		For Aluminized Steel Gate And Post, Add	*2,889.13*	
		For Powder Coated Gate And Post, Add	*1,263.99*	
		For Vinyl Coated, Add	*1,805.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0628	EA	8' High x 25' Wide Galvanized Cantilever Sliding Gate	11,827.47	1,823.41
		For 1" Mesh Fabric, Add	*3,558.59*	
		For 1-1/4" Mesh Fabric, Add	*2,290.59*	
		For 1-3/4" Mesh Fabric, Add	*1,423.44*	
		For 2-1/8" Mesh Fabric, Deduct	*-711.72*	
		For Gate With Single Barb Wire Arm, Add	*899.87*	
		For Gate With Double Barb Wire Arm, Add	*1,308.91*	
		For Aluminized Steel Gate And Post, Add	*3,926.72*	
		For Powder Coated Gate And Post, Add	*1,717.94*	
		For Vinyl Coated, Add	*2,454.20*	
32 31 13 13-0629	EA	8' High x 30' Wide Galvanized Cantilever Sliding Gate	13,317.71	2,145.18
		For 1" Mesh Fabric, Add	*3,926.90*	
		For 1-1/4" Mesh Fabric, Add	*2,527.66*	
		For 1-3/4" Mesh Fabric, Add	*1,570.76*	
		For 2-1/8" Mesh Fabric, Deduct	*-785.38*	
		For Gate With Single Barb Wire Arm, Add	*993.01*	
		For Gate With Double Barb Wire Arm, Add	*1,444.38*	
		For Aluminized Steel Gate And Post, Add	*4,333.13*	
		For Powder Coated Gate And Post, Add	*1,895.74*	
		For Vinyl Coated, Add	*2,708.21*	

32 31 13 13-0630 Gate Accessories *(32 31 13 13-0263)*

32 31 13 13-0631	EA	Gate Center Stop, Cast Steel, Ground	31.33	
32 31 13 13-0632	EA	Gate Latch, Malleable Galvanized Steel	37.37	
32 31 13 13-0633	EA	Gate Keeper, Full Length, Galvanized Steel	163.52	
32 31 13 13-0634	EA	Gate Keeper Hold-Open For Cantilever Gate	90.77	17.42
32 31 13 13-0635	EA	Heavy Duty Gate Latch, Malleable Galvanized Steel	51.49	
32 31 13 13-0636	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate	788.01	
32 31 13 13-0637	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >5' To 8' High Gate	845.59	
32 31 13 13-0638	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >8' To 12' High Gate	903.16	
32 31 13 13-0639	LF	Aluminum V-Groove Gate Track	45.18	9.98
32 31 13 13-0640	LF	Galvanized Steel V-Groove Gate Track	39.81	9.98

32 31 13 13-0641 Tube Gate *(32 31 13 13-0263)*

32 31 13 13-0642 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate *(32 31 13 13-0641)*

Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes bollard and chain.

32 31 13 13-0643	EA	4' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	152.46	24.76
		For 13 Gauge Tubing, Add	*23.16*	
		For Galvanized Finish, Add	*11.86*	
32 31 13 13-0644	EA	6' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	198.46	32.10
		For 13 Gauge Tubing, Add	*30.06*	
		For Galvanized Finish, Add	*15.32*	
32 31 13 13-0645	EA	8' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	265.83	41.27
		For 13 Gauge Tubing, Add	*40.79*	
		For Galvanized Finish, Add	*21.30*	
32 31 13 13-0646	EA	10' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	310.75	51.36
		For 13 Gauge Tubing, Add	*46.56*	
		For Galvanized Finish, Add	*23.23*	
32 31 13 13-0647	EA	12' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	368.17	61.08
		For 13 Gauge Tubing, Add	*55.29*	
		For Galvanized Finish, Add	*27.71*	
32 31 13 13-0648	EA	14' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	403.91	68.79
		For 13 Gauge Tubing, Add	*60.15*	
		For Galvanized Finish, Add	*29.63*	
32 31 13 13-0649	EA	16' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	473.03	79.33
		For 13 Gauge Tubing, Add	*70.76*	
		For Galvanized Finish, Add	*35.19*	

32 31 13 13-0650 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate *(32 31 13 13-0641)*

Note: Round top edges. Includes lag bolt hinges, lock plate and hardware.

32 31 13 13-0651	EA	4' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	192.21	24.76
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*47.54*	
32 31 13 13-0652	EA	6' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	232.69	32.10
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*54.56*	
32 31 13 13-0653	EA	8' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	280.82	41.27
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*62.80*	
32 31 13 13-0654	EA	10' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	327.81	51.36
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*68.76*	
32 31 13 13-0655	EA	12' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	373.88	61.08
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*76.18*	
32 31 13 13-0656	EA	14' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	415.19	68.79
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*83.53*	
32 31 13 13-0657	EA	16' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	466.31	79.33
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*91.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0658	EA	18' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	534.70	89.29
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*105.66*	
32 31 13 13-0659	EA	20' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	587.36	99.88
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*124.88*	

32 31 13 13-0660 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate *(32 31 13 13-0641)*

Note: Round top edges. Includes lag bolt hinges, lock plate and hardware.

32 31 13 13-0661	EA	4' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	206.13	24.76
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*53.10*	
32 31 13 13-0662	EA	6' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	246.38	32.10
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*60.03*	
32 31 13 13-0663	EA	8' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	290.10	41.27
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*66.52*	
32 31 13 13-0664	EA	10' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	341.35	51.36
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*74.18*	
32 31 13 13-0665	EA	12' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	383.67	61.08
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*80.10*	
32 31 13 13-0666	EA	14' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	438.04	68.79
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*92.67*	
32 31 13 13-0667	EA	16' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	491.11	79.33
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*101.06*	
32 31 13 13-0668	EA	18' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	572.54	89.29
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*120.79*	
32 31 13 13-0669	EA	20' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	621.39	99.88
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*138.50*	

32 31 13 13-0670 Tubular Steel Barrier Gate (Triangular Shape) *(32 31 13 13-0641)*

Note: Includes posts, caps, welded hinges and lock keeper. Excludes augering, concrete, and bollards.

32 31 13 13-0671	EA	4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post	1,746.16	51.36
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*555.75*	
32 31 13 13-0672	EA	4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post	1,896.68	61.08
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*595.58*	
32 31 13 13-0673	EA	4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post	2,245.49	68.79
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*716.76*	
32 31 13 13-0674	EA	4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post	1,803.69	51.36
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*578.52*	
32 31 13 13-0675	EA	4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post	1,962.43	61.08
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*621.59*	
32 31 13 13-0676	EA	4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post	2,311.24	68.79
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*742.77*	

32 31 13 13-0677 Four Rail Tube Gate, 1-1/2" Diameter Welded Galvanized Steel Tubing *(32 31 13 13-0641)*

Note: Excludes augering holes and concrete.

32 31 13 13-0678	EA	4' Four Rail Metal Frame Tube Gate, 1-1/2" Diameter Welded Galvanized Steel With Posts	394.61	24.76
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*25.78*	

32 31 13 13-0679 Tubular Horse Gate *(32 31 13 13-0641)*

Note: Includes posts, caps and hardware. Treated with Natina (or Equal) galvanized surface stain "rustic brown finish". Excludes augering holes and concrete.

32 31 13 13-0680	EA	5-1/2' Above Ground, 5' Wide Tubular Galvanized Steel Horse Gate With 3" Diameter Posts	2,884.79	24.76
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	*805.40*	

32 31 13 13-0681 Pipe Gate *(32 31 13 13-0263)*

32 31 13 13-0682	EA	20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	2,677.47	
32 31 13 13-0683	EA	25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	3,340.04	
32 31 13 13-0684	EA	30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	3,973.86	

32 31 13 13-0685 Vertical-Pivot Lift Gate *(32 31 13 13-0263)*

Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.

32 31 13 13-0686	EA	5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate	18,522.26	804.44
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
32 31 13 13-0687	EA	5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate	18,844.04	965.33
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
32 31 13 13-0688	EA	5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate	19,165.82	1,126.21
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
		For Wind Bracing, Add	*287.50*	
32 31 13 13-0689	EA	5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate	19,699.68	1,287.11
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
		For Wind Bracing, Add	*317.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0690	EA	5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate	20,222.93	1,447.99
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
		For Wind Bracing, Add	*317.50*	
32 31 13 13-0691	EA	6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate	19,418.49	1,045.77
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
32 31 13 13-0692	EA	6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate	19,740.26	1,206.67
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
32 31 13 13-0693	EA	6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate	20,062.04	1,367.55
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
		For Wind Bracing, Add	*287.50*	
32 31 13 13-0694	EA	6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate	20,500.46	1,528.44
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
		For Wind Bracing, Add	*317.50*	
32 31 13 13-0695	EA	6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate	21,119.14	1,689.33
		For Curb Notch, Add	*239.00*	
		For Prewired Loop Kit, Add	*245.00*	
		For Wind Bracing, Add	*317.50*	

32 31 13 13-0696 Accessories *(32 31 13 13)*

32 31 13 13-0697 Barbed And Concertina Wire *(32 31 13 13-0696)*

32 31 13 13-0698 Single Strand Barbed Wire *(32 31 13 13-0697)*

32 31 13 13-0699	LF	Galvanized Barbed Wire, Per Strand Note: Includes clips. 4 points 12-1/2 Gauge, Class I.	0.99	0.46
		For >500 To 2,000, Deduct	*-0.10*	
		For >2,000, Deduct	*-0.14*	
32 31 13 13-0700	LF	Vinyl Coated Barbed Wire (Fused), Per Strand Note: Includes clips.	1.11	0.46
		For >500 To 2,000, Deduct	*-0.10*	
		For >2,000, Deduct	*-0.15*	
32 31 13 13-0701	EA	Barbed Wire Extension Arms 3 Strands (Single Arm)	10.53	7.33
32 31 13 13-0702	EA	Barbed Wire Extension Arms 6 Strands (Double Arm)	16.66	8.80
32 31 13 13-0703	EA	Barbed Wire Eye Tops (For Single Strand)	11.02	7.33

32 31 13 13-0704 Galvanized Steel Concertina (Razor) Wire, Single Coil *(32 31 13 13-0697)*

32 31 13 13-0705	LF	18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	2.61	0.64
		For >500 To 1,500, Deduct	*-0.24*	
		For >1,500 To 5,000, Deduct	*-0.48*	
		For >5,000, Deduct	*-0.71*	
		For Ground Installation, Deduct	*-0.46*	
		For Double Coil (Helix), Add	*1.69*	
32 31 13 13-0706	LF	18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	3.91	0.64
		For >500 To 1,500, Deduct	*-0.36*	
		For >1,500 To 5,000, Deduct	*-0.72*	
		For >5,000, Deduct	*-1.06*	
		For Ground Installation, Deduct	*-0.69*	
		For Double Coil (Helix), Add	*2.54*	
32 31 13 13-0707	LF	18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	5.21	0.64
		For >500 To 1,500, Deduct	*-0.48*	
		For >1,500 To 5,000, Deduct	*-0.97*	
		For >5,000, Deduct	*-1.41*	
		For Ground Installation, Deduct	*-0.92*	
		For Double Coil (Helix), Add	*3.38*	
32 31 13 13-0708	LF	24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	3.68	0.64
		For >500 To 1,500, Deduct	*-0.33*	
		For >1,500 To 5,000, Deduct	*-0.65*	
		For >5,000, Deduct	*-0.94*	
		For Ground Installation, Deduct	*-0.51*	
		For Double Coil (Helix), Add	*2.66*	
32 31 13 13-0709	LF	24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	5.54	0.64
		For >500 To 1,500, Deduct	*-0.49*	
		For >1,500 To 5,000, Deduct	*-0.98*	
		For >5,000, Deduct	*-1.41*	
		For Ground Installation, Deduct	*-0.77*	
		For Double Coil (Helix), Add	*4.01*	
32 31 13 13-0710	LF	24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	7.32	0.64
		For >500 To 1,500, Deduct	*-0.65*	
		For >1,500 To 5,000, Deduct	*-1.30*	
		For >5,000, Deduct	*-1.87*	
		For Ground Installation, Deduct	*-1.01*	
		For Double Coil (Helix), Add	*5.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0711	LF	30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	8.72	0.64
		For >500 To 1,500, Deduct	*-0.71*	
		For >1,500 To 5,000, Deduct	*-1.42*	
		For >5,000, Deduct	*-1.97*	
		For Ground Installation, Deduct	*-0.57*	
		For Double Coil (Helix), Add	*7.58*	
32 31 13 13-0712	LF	30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	13.17	0.64
		For >500 To 1,500, Deduct	*-1.07*	
		For >1,500 To 5,000, Deduct	*-2.15*	
		For >5,000, Deduct	*-2.98*	
		For Ground Installation, Deduct	*-0.86*	
		For Double Coil (Helix), Add	*11.45*	
32 31 13 13-0713	LF	30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	17.44	0.64
		For >500 To 1,500, Deduct	*-1.42*	
		For >1,500 To 5,000, Deduct	*-2.85*	
		For >5,000, Deduct	*-3.95*	
		For Ground Installation, Deduct	*-1.15*	
		For Double Coil (Helix), Add	*15.15*	

32 31 13 13-0714 Stainless Steel Concertina (Razor) Wire, Single Coil *(32 31 13 13-0697)*

32 31 13 13-0715	LF	18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	3.71	0.64
		For >500 To 1,500, Deduct	*-0.32*	
		For >1,500 To 5,000, Deduct	*-0.65*	
		For >5,000, Deduct	*-0.93*	
		For Ground Installation, Deduct	*-0.46*	
		For Double Coil (Helix), Add	*2.79*	
32 31 13 13-0716	LF	18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	5.59	0.64
		For >500 To 1,500, Deduct	*-0.49*	
		For >1,500 To 5,000, Deduct	*-0.98*	
		For >5,000, Deduct	*-1.39*	
		For Ground Installation, Deduct	*-0.69*	
		For Double Coil (Helix), Add	*4.22*	
32 31 13 13-0717	LF	18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	7.41	0.64
		For >500 To 1,500, Deduct	*-0.65*	
		For >1,500 To 5,000, Deduct	*-1.30*	
		For >5,000, Deduct	*-1.85*	
		For Ground Installation, Deduct	*-0.92*	
		For Double Coil (Helix), Add	*5.58*	
32 31 13 13-0718	LF	24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	4.61	0.64
		For >500 To 1,500, Deduct	*-0.40*	
		For >1,500 To 5,000, Deduct	*-0.79*	
		For >5,000, Deduct	*-1.13*	
		For Ground Installation, Deduct	*-0.51*	
		For Double Coil (Helix), Add	*3.59*	
32 31 13 13-0719	LF	24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	6.96	0.64
		For >500 To 1,500, Deduct	*-0.60*	
		For >1,500 To 5,000, Deduct	*-1.20*	
		For >5,000, Deduct	*-1.70*	
		For Ground Installation, Deduct	*-0.77*	
		For Double Coil (Helix), Add	*5.43*	
32 31 13 13-0720	LF	24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	9.19	0.64
		For >500 To 1,500, Deduct	*-0.79*	
		For >1,500 To 5,000, Deduct	*-1.58*	
		For >5,000, Deduct	*-2.24*	
		For Ground Installation, Deduct	*-1.01*	
		For Double Coil (Helix), Add	*7.17*	
32 31 13 13-0721	LF	30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	12.26	0.64
		For >500 To 1,500, Deduct	*-0.98*	
		For >1,500 To 5,000, Deduct	*-1.95*	
		For >5,000, Deduct	*-2.68*	
		For Ground Installation, Deduct	*-0.57*	
		For Double Coil (Helix), Add	*11.12*	
32 31 13 13-0722	LF	30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	18.54	0.64
		For >500 To 1,500, Deduct	*-1.48*	
		For >1,500 To 5,000, Deduct	*-2.95*	
		For >5,000, Deduct	*-4.05*	
		For Ground Installation, Deduct	*-0.86*	
		For Double Coil (Helix), Add	*16.82*	
32 31 13 13-0723	LF	30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	24.52	0.64
		For >500 To 1,500, Deduct	*-1.95*	
		For >1,500 To 5,000, Deduct	*-3.91*	
		For >5,000, Deduct	*-5.36*	
		For Ground Installation, Deduct	*-1.15*	
		For Double Coil (Helix), Add	*22.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0724		**Grounding For Gates** *(32 31 13 13-0696)*		
		Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0725	OPN	Grounding For Gates (Per Opening)	461.83	
32 31 13 13-0726		**Coiled Spring Reinforcing Wire** *(32 31 13 13-0696)*		
32 31 13 13-0727		**Galvanized Steel** *(32 31 13 13-0726)*		
32 31 13 13-0728	LF	7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring	1.09	0.46
32 31 13 13-0729		**Vinyl Coated Steel** *(32 31 13 13-0726)*		
32 31 13 13-0730	LF	9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring	1.09	0.46
32 31 13 13-0731		**Bending Of Fabric Around Pipe Railings** *(32 31 13 13-0696)*		
		Note: Only where specified.		
32 31 13 13-0732	LF	Bend Chain Link Fence Fabric Around Pipe Railing, Top	1.47	
32 31 13 13-0733	LF	Bend Chain Link Fence Fabric Around Pipe Railing, Bottom	1.28	
32 31 13 13-0734		**Mounting Plate With Anchors Or Bolts** *(32 31 13 13-0696)*		
		Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0735	EA	Mounting Plate For 1-5/8" Diameter Post	34.61	
32 31 13 13-0736	EA	Mounting Plate For 2" Diameter Post	35.11	
32 31 13 13-0737	EA	Mounting Plate For 2-1/2" Diameter Post	36.19	
32 31 13 13-0738	EA	Mounting Plate For 3" Diameter Post	43.11	
32 31 13 13-0739	EA	Mounting Plate For 4" Diameter Post	49.26	
32 31 13 13-0740	EA	Mounting Plate For 6-5/8" Diameter Post	56.64	
32 31 13 13-0741	EA	Mounting Plate For 8-5/8" Diameter Post	66.39	
32 31 13 13-0742		**Tension Bar** *(32 31 13 13-0696)*		
32 31 13 13-0743	EA	3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	13.28	
32 31 13 13-0744	EA	3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	14.10	
32 31 13 13-0745	EA	4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	16.97	
32 31 13 13-0746	EA	5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	19.49	
32 31 13 13-0747	EA	6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	22.78	
32 31 13 13-0748	EA	7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	26.20	
32 31 13 13-0749	EA	8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	29.55	
32 31 13 13-0750	EA	9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	35.12	
32 31 13 13-0751	EA	10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	41.94	
32 31 13 13-0752		**Truss Rods** *(32 31 13 13-0696)*		
32 31 13 13-0753	LF	3/8" Diameter Truss Rods	1.73	0.51
32 31 13 13-0754		**Fence And Gate Repair And Replacement** *(32 31 13 13)*		
32 31 13 13-0755		**Fence And Gate Parts Replacement** *(32 31 13 13-0754)*		
32 31 13 13-0756	EA	Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement	110.51	
32 31 13 13-0757	EA	Sliding Gate Roller Assembly Replacement	109.22	
32 31 13 13-0758	EA	Rod And Lock Gate Keeper Replacement	109.49	
32 31 13 13-0759	EA	Galvanized Gate Holdback Replacement	25.03	
32 31 13 13-0760	LF	3/8" Cross Bracing Rod Replacement	1.43	
32 31 13 13-0761	LF	1-5/8" Diagonal Pipe Bracing Replacement	2.21	
32 31 13 13-0762	EA	2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	21.63	
32 31 13 13-0763	EA	2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	24.92	
32 31 13 13-0764	EA	3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	28.21	
32 31 13 13-0765	EA	6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	41.46	
32 31 13 13-0766	EA	8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	73.30	
32 31 13 13-0767	EA	2-1/2" x 2" Off Set Gate Hinge Replacement	23.12	
32 31 13 13-0768	EA	3" x 2" Off Set Gate Hinge Replacement	24.15	
32 31 13 13-0769	EA	4" x 2" Off Set Gate Hinge Replacement	25.78	
32 31 13 13-0770	EA	6-5/8" x 2" Off Set Gate Hinge Replacement	41.42	
32 31 13 13-0771	EA	8-5/8" x 2" Off Set Gate Hinge Replacement	64.51	
32 31 13 13-0772	EA	1-5/8" Aluminum Die-Cast Post Cap Replacement	5.05	
32 31 13 13-0773	EA	2" Aluminum Die-Cast Post Cap Replacement	5.53	
32 31 13 13-0774	EA	2-1/2" Aluminum Die-Cast Post Cap Replacement	6.35	
32 31 13 13-0775	EA	3" Aluminum Die-Cast Post Cap Replacement	7.30	
32 31 13 13-0776	EA	2" Galvanized Post Cap Replacement	5.87	
32 31 13 13-0777	EA	2-1/2" Galvanized Post Cap Replacement	6.37	
32 31 13 13-0778	EA	3" Galvanized Post Cap Replacement	7.27	
32 31 13 13-0779	EA	4" Galvanized Post Cap Replacement	10.62	
32 31 13 13-0780	EA	6-5/8" Galvanized Post Cap Replacement	19.50	
32 31 13 13-0781	EA	8-5/8" Galvanized Post Cap Replacement	31.79	
32 31 13 13-0782	EA	1-5/8" Boulevard Clamp Replacement	9.86	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0783	EA	2" Boulevard Clamp Replacement	12.01	
32 31 13 13-0784	EA	2-1/2" Boulevard Clamp Replacement	14.09	
32 31 13 13-0785	EA	3" Boulevard Clamp Replacement	17.09	
32 31 13 13-0786	EA	1-5/8" Gate Brace Or End Rail Clamp Replacement	9.68	
32 31 13 13-0787	EA	2" Gate Brace Or End Rail Clamp Replacement	11.76	
32 31 13 13-0788	EA	2-1/2" Gate Brace Or End Rail Clamp Replacement	13.84	
32 31 13 13-0789	EA	3" Gate Brace Or End Rail Clamp Replacement	16.83	
32 31 13 13-0790	EA	1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.03	
32 31 13 13-0791	EA	2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.24	
32 31 13 13-0792	EA	2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.15	
32 31 13 13-0793	EA	3" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.30	
32 31 13 13-0794	EA	3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.44	
32 31 13 13-0795	EA	4" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.82	
32 31 13 13-0796	EA	6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	13.60	
32 31 13 13-0797	EA	1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	9.95	

32 31 13 13-0798 Remove And Reinstall Chain Link Fences *(32 31 13 13)*

Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.

32 31 13 13-0799	LF	Removal And Reinstallation Of Chain Link Fence Up To 5' Height	18.34	
32 31 13 13-0800	LF	Removal And Reinstallation Of Chain Link Fence 6' To 12' Height	27.52	

32 31 13 33 Chain Link Backstops *(32 31 13)*

32 31 13 33-0001 Regulation Baseball Backstop *(32 31 13 33)*

See CSI section 32 31 13 13-0001 for auguring holes and concrete.

32 31 13 33-0002	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized	10,997.58	1,854.97
32 31 13 33-0003	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized	15,846.42	2,473.30
32 31 13 33-0004	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized	20,172.30	2,885.52
32 31 13 33-0005	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	15,371.88	1,854.97
32 31 13 33-0006	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated	22,391.74	2,473.30
32 31 13 33-0007	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	28,809.88	2,885.52

32 31 13 33-0008 Regulation Softball Backstop *(32 31 13 33)*

See CSI section 32 31 13 13-0001 for auguring holes and concrete.

32 31 13 33-0009 14' High Softball Backstop *(32 31 13 33-0008)*

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.

32 31 13 33-0010	EA	14' Softball Backstop, Galvanized Regulation	9,374.12	1,865.34
32 31 13 33-0011	EA	14' Softball Backstop, Vinyl Coated Regulation	12,511.44	1,865.34

32 31 13 33-0012 18' High Softball Backstop *(32 31 13 33-0008)*

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.

32 31 13 33-0013	EA	18' Softball Backstop, Galvanized Regulation	10,933.56	2,073.74
32 31 13 33-0014	EA	18' Softball Backstop Vinyl Coated Regulation	14,728.69	2,073.74

32 31 13 33-0015 20' High Softball Backstop *(32 31 13 33-0008)*

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.

32 31 13 33-0016	EA	20' Softball Backstop, Galvanized Regulation	12,364.78	2,186.48
32 31 13 33-0017	EA	20' Softball Backstop, Vinyl Coated Regulation	16,868.38	2,186.48

32 31 13 33-0018 22' High Softball Backstop *(32 31 13 33-0008)*

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.

32 31 13 33-0019	EA	22' Softball Backstop, Galvanized Regulation	14,224.43	2,252.44
32 31 13 33-0020	EA	22' Softball Backstop, Vinyl Coated Regulation	19,638.82	2,252.44

32 31 13 33-0021 24' High Softball Backstop *(32 31 13 33-0008)*

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.

32 31 13 33-0022	EA	24' Softball Backstop, Galvanized Regulation	16,906.86	2,574.22
32 31 13 33-0023	EA	24' Softball Backstop, Vinyl Coated Regulation	23,636.91	2,574.22

32 31 16 Welded Wire Fences and Gates *(32 31)*

32 31 16 00-0001 Welded Wire Fence *(32 31 16)*

32 31 16 00-0002 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh *(32 31 16 00-0001)*

Note: Posts 5' on center.

32 31 16 00-0003	LF	3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'	9.00	1.65
32 31 16 00-0004	LF	5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'	9.65	1.65

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 16 00-0005		**14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh** *(32 31 16 00-0001)* Note: Posts 5' on center.		
32 31 16 00-0006	LF	3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'	8.87	1.65
32 31 16 00-0007	LF	5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'	9.44	1.65
32 31 19		**Decorative Metal Fences and Gates** *(32 31)* See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31 19 00-0001		**Wrought Iron Fence** *(32 31 19)* Note: Factory primed.		
32 31 19 00-0002		**Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center** *(32 31 19 00-0001)* Note: Factory primed.		
32 31 19 00-0003	LF	3' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	49.74	10.09
		For Verticals Up To 2" On Center, Add	*5.91*	
		For Verticals >2" To 2-1/2" On Center, Add	*2.96*	
		For Verticals >3" To 4" On Center, Deduct	*-2.96*	
		For Verticals >4" To 6" On Center, Deduct	*-5.91*	
32 31 19 00-0004	LF	4' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	63.96	12.84
		For Verticals Up To 2" On Center, Add	*7.84*	
		For Verticals >2" To 2-1/2" On Center, Add	*3.92*	
		For Verticals >3" To 4" On Center, Deduct	*-3.92*	
		For Verticals >4" To 6" On Center, Deduct	*-7.84*	
32 31 19 00-0005	LF	5' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	76.37	13.39
		For Verticals Up To 2" On Center, Add	*9.88*	
		For Verticals >2" To 2-1/2" On Center, Add	*4.94*	
		For Verticals >3" To 4" On Center, Deduct	*-4.94*	
		For Verticals >4" To 6" On Center, Deduct	*-9.88*	
32 31 19 00-0006	LF	6' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	92.51	16.14
		For Verticals Up To 2" On Center, Add	*12.03*	
		For Verticals >2" To 2-1/2" On Center, Add	*6.02*	
		For Verticals >3" To 4" On Center, Deduct	*-6.02*	
		For Verticals >4" To 6" On Center, Deduct	*-12.03*	
32 31 19 00-0007	LF	7' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	108.91	17.08
		For Verticals Up To 2" On Center, Add	*14.95*	
		For Verticals >2" To 2-1/2" On Center, Add	*7.48*	
		For Verticals >3" To 4" On Center, Deduct	*-7.48*	
		For Verticals >4" To 6" On Center, Deduct	*-14.95*	
32 31 19 00-0008	LF	8' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	125.31	17.98
		For Verticals Up To 2" On Center, Add	*17.87*	
		For Verticals >2" To 2-1/2" On Center, Add	*8.94*	
		For Verticals >3" To 4" On Center, Deduct	*-8.94*	
		For Verticals >4" To 6" On Center, Deduct	*-17.87*	
32 31 19 00-0009	LF	10' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	152.92	20.18
		For Verticals Up To 2" On Center, Add	*22.51*	
		For Verticals >2" To 2-1/2" On Center, Add	*11.26*	
		For Verticals >3" To 4" On Center, Deduct	*-11.26*	
		For Verticals >4" To 6" On Center, Deduct	*-22.51*	
32 31 19 00-0010	LF	12' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center	181.02	22.93
		For Verticals Up To 2" On Center, Add	*27.03*	
		For Verticals >2" To 2-1/2" On Center, Add	*13.52*	
		For Verticals >3" To 4" On Center, Deduct	*-13.52*	
		For Verticals >4" To 6" On Center, Deduct	*-27.03*	
32 31 19 00-0011		**Wrought Iron Gates** *(32 31 19 00-0001)* Note: Factory primed.		
32 31 19 00-0012		**Single Wrought Iron Gates** *(32 31 19 00-0011)* Note: Factory primed.		
32 31 19 00-0013	LF	3' Single Wrought Iron Gate, Hardware And Associated Trim	61.40	12.29
32 31 19 00-0014	LF	4' Single Wrought Iron Gate, Hardware And Associated Trim	80.59	15.23
32 31 19 00-0015	LF	5' Single Wrought Iron Gate, Hardware And Associated Trim	98.66	18.34
32 31 19 00-0016	LF	6' Single Wrought Iron Gate, Hardware And Associated Trim	119.97	22.01
32 31 19 00-0017	LF	8' Single Wrought Iron Gate, Hardware And Associated Trim	162.23	24.40
32 31 19 00-0018	LF	10' Single Wrought Iron Gate, Hardware And Associated Trim	197.04	26.96
32 31 19 00-0019	LF	12' Single Wrought Iron Gate, Hardware And Associated Trim	231.19	30.63
32 31 19 00-0020		**Double Wrought Iron Gates** *(32 31 19 00-0011)* Note: Factory primed.		
32 31 19 00-0021	LF	3' Double Wrought Iron Gate, Hardware And Associated Trim	75.18	11.01
32 31 19 00-0022	LF	4' Double Wrought Iron Gate, Hardware And Associated Trim	98.80	13.76
32 31 19 00-0023	LF	5' Double Wrought Iron Gate, Hardware And Associated Trim	120.49	16.51
32 31 19 00-0024	LF	6' Double Wrought Iron Gate, Hardware And Associated Trim	146.15	19.81
32 31 19 00-0025	LF	8' Double Wrought Iron Gate, Hardware And Associated Trim	198.49	22.01
32 31 19 00-0026	LF	10' Double Wrought Iron Gate, Hardware And Associated Trim	241.50	24.22
32 31 19 00-0027	LF	12' Double Wrought Iron Gate, Hardware And Associated Trim	283.83	27.52
32 31 19 00-0028		**Repair Or Replace Wrought Iron Fence** *(32 31 19 00-0001)*		
32 31 19 00-0029	LF	Removal And Replacement Of Wrought Iron Picket	18.55	
32 31 19 00-0030	LF	Removal And Replacement Of Wrought Iron Post	27.91	
32 31 19 00-0031	EA	Straighten Wrought Iron Post	73.37	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0032		**Steel Tube Fence, Powder Coated** *(32 31 19)* Note: Pickets are 3/4" square x 16 gauge.		
32 31 19 00-0033		**Steel Tube Fence, 2 Rail** *(32 31 19 00-0032)*		
32 31 19 00-0034	LF	3' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	61.24	10.09
		For Verticals Up To 2" On Center, Add	*8.29*	
		For Verticals >2" To 2-1/2" On Center, Add	*4.15*	
		For Verticals >3" To 4" On Center, Deduct	*-4.15*	
		For Verticals >4" To 6" On Center, Deduct	*-8.29*	
		For Solid Pickets, Add	*12.30*	
		For Aluminum With Satin Finish, Add	*9.48*	
		For Third Rail, Add	*3.11*	
		For 1" Square x 14 Gauge Pickets, Add	*10.37*	
		For 3" Square Posts, Add	*4.15*	
32 31 19 00-0035	LF	3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	65.57	10.78
		For Verticals Up To 2" On Center, Add	*8.80*	
		For Verticals >2" To 2-1/2" On Center, Add	*4.40*	
		For Verticals >3" To 4" On Center, Deduct	*-4.40*	
		For Verticals >4" To 6" On Center, Deduct	*-8.80*	
		For Solid Pickets, Add	*13.14*	
		For Aluminum With Satin Finish, Add	*9.96*	
		For Third Rail, Add	*3.30*	
		For 1" Square x 14 Gauge Pickets, Add	*11.00*	
		For 3" Square Posts, Add	*4.40*	
32 31 19 00-0036	LF	4' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	69.43	11.92
		For Verticals Up To 2" On Center, Add	*9.21*	
		For Verticals >2" To 2-1/2" On Center, Add	*4.61*	
		For Verticals >3" To 4" On Center, Deduct	*-4.61*	
		For Verticals >4" To 6" On Center, Deduct	*-9.21*	
		For Solid Pickets, Add	*13.87*	
		For Aluminum With Satin Finish, Add	*10.31*	
		For Third Rail, Add	*3.45*	
		For 1" Square x 14 Gauge Pickets, Add	*11.52*	
		For 3" Square Posts, Add	*4.61*	
32 31 19 00-0037	LF	5' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	74.17	13.39
		For Verticals Up To 2" On Center, Add	*9.44*	
		For Verticals >2" To 2-1/2" On Center, Add	*4.72*	
		For Verticals >3" To 4" On Center, Deduct	*-4.72*	
		For Verticals >4" To 6" On Center, Deduct	*-9.44*	
		For Solid Pickets, Add	*14.67*	
		For Aluminum With Satin Finish, Add	*10.12*	
		For Third Rail, Add	*3.54*	
		For 1" Square x 14 Gauge Pickets, Add	*11.80*	
		For 3" Square Posts, Add	*4.72*	
32 31 19 00-0038	LF	6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	85.91	15.14
		For Verticals Up To 2" On Center, Add	*11.13*	
		For Verticals >2" To 2-1/2" On Center, Add	*5.57*	
		For Verticals >3" To 4" On Center, Deduct	*-5.57*	
		For Verticals >4" To 6" On Center, Deduct	*-11.13*	
		For Solid Pickets, Add	*17.06*	
		For Aluminum With Satin Finish, Add	*12.16*	
		For Third Rail, Add	*4.17*	
		For 1" Square x 14 Gauge Pickets, Add	*13.91*	
		For 3" Square Posts, Add	*5.57*	
32 31 19 00-0039	LF	7' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts	98.22	16.51
		For Verticals Up To 2" On Center, Add	*13.04*	
		For Verticals >2" To 2-1/2" On Center, Add	*6.52*	
		For Verticals >3" To 4" On Center, Deduct	*-6.52*	
		For Verticals >4" To 6" On Center, Deduct	*-13.04*	
		For Solid Pickets, Add	*19.62*	
		For Aluminum With Satin Finish, Add	*14.61*	
		For Third Rail, Add	*4.89*	
		For 1" Square x 14 Gauge Pickets, Add	*16.30*	
		For 4" Square Posts, Add	*22.82*	
32 31 19 00-0040	LF	8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts	110.70	17.98
		For Verticals Up To 2" On Center, Add	*14.95*	
		For Verticals >2" To 2-1/2" On Center, Add	*7.48*	
		For Verticals >3" To 4" On Center, Deduct	*-7.48*	
		For Verticals >4" To 6" On Center, Deduct	*-14.95*	
		For Solid Pickets, Add	*22.21*	
		For Aluminum With Satin Finish, Add	*17.03*	
		For Third Rail, Add	*5.61*	
		For 1" Square x 14 Gauge Pickets, Add	*18.69*	
		For 4" Square Posts, Add	*26.16*	
32 31 19 00-0041	LF	9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts	128.40	19.26
		For Verticals Up To 2" On Center, Add	*17.98*	
		For Verticals >2" To 2-1/2" On Center, Add	*8.99*	
		For Verticals >3" To 4" On Center, Deduct	*-8.99*	
		For Verticals >4" To 6" On Center, Deduct	*-17.98*	
		For Solid Pickets, Add	*26.00*	
		For Aluminum With Satin Finish, Add	*21.19*	
		For Third Rail, Add	*6.74*	
		For 1" Square x 14 Gauge Pickets, Add	*22.47*	
		For 4" Square Posts, Add	*31.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0042	LF	10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts	146.28	20.63
		For Verticals Up To 2" On Center, Add	*21.00*	
		For Verticals >2" To 2-1/2" On Center, Add	*10.50*	
		For Verticals >3" To 4" On Center, Deduct	*-10.50*	
		For Verticals >4" To 6" On Center, Deduct	*-21.00*	
		For Solid Pickets, Add	*29.82*	
		For Aluminum With Satin Finish, Add	*25.31*	
		For Third Rail, Add	*7.88*	
		For 1" Square x 14 Gauge Pickets, Add	*26.25*	
		For 6" Square Posts, Add	*36.75*	
32 31 19 00-0043	LF	12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts	172.05	22.93
		For Verticals Up To 2" On Center, Add	*25.24*	
		For Verticals >2" To 2-1/2" On Center, Add	*12.62*	
		For Verticals >3" To 4" On Center, Deduct	*-12.62*	
		For Verticals >4" To 6" On Center, Deduct	*-25.24*	
		For Solid Pickets, Add	*35.27*	
		For Aluminum With Satin Finish, Add	*30.98*	
		For Third Rail, Add	*9.46*	
		For 1" Square x 14 Gauge Pickets, Add	*31.55*	
		For 6" Square Posts, Add	*44.17*	
32 31 19 00-0044	LF	14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts	184.34	24.76
		For Verticals Up To 2" On Center, Add	*26.96*	
		For Verticals >2" To 2-1/2" On Center, Add	*13.48*	
		For Verticals >3" To 4" On Center, Deduct	*-13.48*	
		For Verticals >4" To 6" On Center, Deduct	*-26.96*	
		For Solid Pickets, Add	*37.76*	
		For Aluminum With Satin Finish, Add	*33.01*	
		For Third Rail, Add	*10.11*	
		For 1" Square x 14 Gauge Pickets, Add	*33.70*	
		For 6" Square Posts, Add	*47.18*	

32 31 19 00-0045 Steel Tube Swing Gates *(32 31 19 00-0032)*

32 31 19 00-0046 3' Fence Height Steel Tube Swing Gates, 2 Rail *(32 31 19 00-0045)*

32 31 19 00-0047	EA	3' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	711.17	19.54
		For Solid Pickets, Add	*155.61*	
		For Aluminum With Satin Finish, Add	*186.94*	
		For Third Rail, Add	*48.94*	
		For 1" Square x 14 Gauge Pickets, Add	*65.25*	
32 31 19 00-0048	EA	3'-6" Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	791.72	20.45
		For Solid Pickets, Add	*173.53*	
		For Aluminum With Satin Finish, Add	*209.86*	
		For Third Rail, Add	*54.77*	
		For 1" Square x 14 Gauge Pickets, Add	*73.03*	
32 31 19 00-0049	EA	4' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	876.71	21.64
		For Solid Pickets, Add	*192.38*	
		For Aluminum With Satin Finish, Add	*233.71*	
		For Third Rail, Add	*60.87*	
		For 1" Square x 14 Gauge Pickets, Add	*81.16*	
32 31 19 00-0050	EA	5' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	921.97	23.21
		For Solid Pickets, Add	*202.22*	
		For Aluminum With Satin Finish, Add	*245.23*	
		For Third Rail, Add	*63.92*	
		For 1" Square x 14 Gauge Pickets, Add	*85.23*	
32 31 19 00-0051	EA	6' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,029.45	27.79
		For Solid Pickets, Add	*225.37*	
		For Aluminum With Satin Finish, Add	*271.28*	
		For Third Rail, Add	*70.95*	
		For 1" Square x 14 Gauge Pickets, Add	*94.60*	
32 31 19 00-0052	EA	7' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,094.47	32.38
		For Solid Pickets, Add	*238.97*	
		For Aluminum With Satin Finish, Add	*284.60*	
		For Third Rail, Add	*74.79*	
		For 1" Square x 14 Gauge Pickets, Add	*99.73*	
32 31 19 00-0053	EA	8' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,194.03	37.24
		For Solid Pickets, Add	*260.27*	
		For Aluminum With Satin Finish, Add	*307.86*	
		For Third Rail, Add	*81.16*	
		For 1" Square x 14 Gauge Pickets, Add	*108.21*	
32 31 19 00-0054	EA	9' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,280.28	41.82
		For Solid Pickets, Add	*278.64*	
		For Aluminum With Satin Finish, Add	*327.54*	
		For Third Rail, Add	*86.60*	
		For 1" Square x 14 Gauge Pickets, Add	*115.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0055	EA	10' Wide x 3' High Steel Tube Single Swing Gate	1,355.93	46.41
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*294.63*	
		For Aluminum With Satin Finish, Add	*344.04*	
		For Third Rail, Add	*91.24*	
		For 1" Square x 14 Gauge Pickets, Add	*121.65*	
32 31 19 00-0056	EA	6' Wide x 3' High Steel Tube Double Swing Gate	1,487.58	39.07
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*325.90*	
		For Aluminum With Satin Finish, Add	*393.44*	
		For Third Rail, Add	*102.76*	
		For 1" Square x 14 Gauge Pickets, Add	*137.02*	
32 31 19 00-0057	EA	7' Wide x 3' High Steel Tube Double Swing Gate	1,585.20	40.91
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*347.45*	
		For Aluminum With Satin Finish, Add	*420.26*	
		For Third Rail, Add	*109.67*	
		For 1" Square x 14 Gauge Pickets, Add	*146.23*	
32 31 19 00-0058	EA	8' Wide x 3' High Steel Tube Double Swing Gate	1,753.44	43.38
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*384.76*	
		For Aluminum With Satin Finish, Add	*467.43*	
		For Third Rail, Add	*121.74*	
		For 1" Square x 14 Gauge Pickets, Add	*162.32*	
32 31 19 00-0059	EA	9' Wide x 3' High Steel Tube Double Swing Gate	1,837.60	44.94
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*403.35*	
		For Aluminum With Satin Finish, Add	*490.61*	
		For Third Rail, Add	*127.71*	
		For 1" Square x 14 Gauge Pickets, Add	*170.28*	
32 31 19 00-0060	EA	10' Wide x 3' High Steel Tube Double Swing Gate	1,905.84	46.41
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*418.36*	
		For Aluminum With Satin Finish, Add	*509.02*	
		For Third Rail, Add	*132.48*	
		For 1" Square x 14 Gauge Pickets, Add	*176.64*	
32 31 19 00-0061	EA	12' Wide x 3' High Steel Tube Double Swing Gate	2,143.77	55.58
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*469.83*	
		For Aluminum With Satin Finish, Add	*568.02*	
		For Third Rail, Add	*148.26*	
		For 1" Square x 14 Gauge Pickets, Add	*197.69*	
32 31 19 00-0062	EA	14' Wide x 3' High Steel Tube Double Swing Gate	2,348.11	64.75
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*513.74*	
		For Aluminum With Satin Finish, Add	*616.94*	
		For Third Rail, Add	*161.53*	
		For 1" Square x 14 Gauge Pickets, Add	*215.37*	
32 31 19 00-0063	EA	16' Wide x 3' High Steel Tube Double Swing Gate	2,518.90	74.56
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*549.97*	
		For Aluminum With Satin Finish, Add	*654.97*	
		For Third Rail, Add	*172.13*	
		For 1" Square x 14 Gauge Pickets, Add	*229.51*	
32 31 19 00-0064	EA	18' Wide x 3' High Steel Tube Double Swing Gate	2,661.36	83.64
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*579.96*	
		For Aluminum With Satin Finish, Add	*685.32*	
		For Third Rail, Add	*180.75*	
		For 1" Square x 14 Gauge Pickets, Add	*241.01*	
32 31 19 00-0065	EA	20' Wide x 3' High Steel Tube Double Swing Gate	2,777.28	92.81
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*603.98*	
		For Aluminum With Satin Finish, Add	*707.72*	
		For Third Rail, Add	*187.39*	
		For 1" Square x 14 Gauge Pickets, Add	*249.85*	

32 31 19 00-0066 4' Fence Height Steel Tube Swing Gates, 2 Rail *(32 31 19 00-0045)*

32 31 19 00-0067	EA	3' Wide x 4' High Steel Tube Single Swing Gate	822.24	18.34
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*180.36*	
		For Aluminum With Satin Finish, Add	*218.81*	
		For Third Rail, Add	*57.02*	
		For 1" Square x 14 Gauge Pickets, Add	*76.03*	
32 31 19 00-0068	EA	3'-6" Wide x 4' High Steel Tube Single Swing Gate	889.95	21.37
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*195.42*	
		For Aluminum With Satin Finish, Add	*238.10*	
		For Third Rail, Add	*61.93*	
		For 1" Square x 14 Gauge Pickets, Add	*82.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0069	EA	4' Wide x 4' High Steel Tube Single Swing Gate	959.96	22.93
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*210.83*	
		For Aluminum With Satin Finish, Add	*257.03*	
		For Third Rail, Add	*66.84*	
		For 1" Square x 14 Gauge Pickets, Add	*89.12*	
32 31 19 00-0070	EA	5' Wide x 4' High Steel Tube Single Swing Gate	1,017.59	24.40
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*223.46*	
		For Aluminum With Satin Finish, Add	*272.26*	
		For Third Rail, Add	*70.82*	
		For 1" Square x 14 Gauge Pickets, Add	*94.42*	
32 31 19 00-0071	EA	6' Wide x 4' High Steel Tube Single Swing Gate	1,095.91	29.34
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*239.98*	
		For Aluminum With Satin Finish, Add	*289.16*	
		For Third Rail, Add	*75.59*	
		For 1" Square x 14 Gauge Pickets, Add	*100.79*	
32 31 19 00-0072	EA	7' Wide x 4' High Steel Tube Single Swing Gate	1,202.54	34.21
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*262.87*	
		For Aluminum With Satin Finish, Add	*314.54*	
		For Third Rail, Add	*82.49*	
		For 1" Square x 14 Gauge Pickets, Add	*109.98*	
32 31 19 00-0073	EA	8' Wide x 4' High Steel Tube Single Swing Gate	1,349.84	39.07
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*294.91*	
		For Aluminum With Satin Finish, Add	*352.12*	
		For Third Rail, Add	*92.43*	
		For 1" Square x 14 Gauge Pickets, Add	*123.24*	
32 31 19 00-0074	EA	9' Wide x 4' High Steel Tube Single Swing Gate	1,493.58	44.02
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*326.15*	
		For Aluminum With Satin Finish, Add	*388.64*	
		For Third Rail, Add	*102.11*	
		For 1" Square x 14 Gauge Pickets, Add	*136.15*	
32 31 19 00-0075	EA	10' Wide x 4' High Steel Tube Single Swing Gate	1,630.26	48.88
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*355.80*	
		For Aluminum With Satin Finish, Add	*423.05*	
		For Third Rail, Add	*111.26*	
		For 1" Square x 14 Gauge Pickets, Add	*148.35*	
32 31 19 00-0076	EA	6' Wide x 4' High Steel Tube Double Swing Gate	1,644.46	41.27
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*360.72*	
		For Aluminum With Satin Finish, Add	*437.62*	
		For Third Rail, Add	*114.05*	
		For 1" Square x 14 Gauge Pickets, Add	*152.07*	
32 31 19 00-0077	EA	7' Wide x 4' High Steel Tube Double Swing Gate	1,779.90	42.73
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*390.85*	
		For Aluminum With Satin Finish, Add	*476.19*	
		For Third Rail, Add	*123.86*	
		For 1" Square x 14 Gauge Pickets, Add	*165.15*	
32 31 19 00-0078	EA	8' Wide x 4' High Steel Tube Double Swing Gate	1,919.92	45.86
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*421.66*	
		For Aluminum With Satin Finish, Add	*514.07*	
		For Third Rail, Add	*133.68*	
		For 1" Square x 14 Gauge Pickets, Add	*178.24*	
32 31 19 00-0079	EA	9' Wide x 4' High Steel Tube Double Swing Gate	2,030.59	47.32
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*446.22*	
		For Aluminum With Satin Finish, Add	*545.21*	
		For Third Rail, Add	*141.63*	
		For 1" Square x 14 Gauge Pickets, Add	*188.84*	
32 31 19 00-0080	EA	10' Wide x 4' High Steel Tube Double Swing Gate	2,123.59	48.88
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*466.80*	
		For Aluminum With Satin Finish, Add	*571.04*	
		For Third Rail, Add	*148.26*	
		For 1" Square x 14 Gauge Pickets, Add	*197.69*	
32 31 19 00-0081	EA	12' Wide x 4' High Steel Tube Double Swing Gate	2,409.33	58.61
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*528.89*	
		For Aluminum With Satin Finish, Add	*643.56*	
		For Third Rail, Add	*167.49*	
		For 1" Square x 14 Gauge Pickets, Add	*223.32*	
32 31 19 00-0082	EA	14' Wide x 4' High Steel Tube Double Swing Gate	2,659.70	68.42
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*583.02*	
		For Aluminum With Satin Finish, Add	*705.46*	
		For Third Rail, Add	*184.07*	
		For 1" Square x 14 Gauge Pickets, Add	*245.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0083	EA	16' Wide x 4' High Steel Tube Double Swing Gate	2,876.48	78.14
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*629.60*	
		For Aluminum With Satin Finish, Add	*757.29*	
		For Third Rail, Add	*198.13*	
		For 1" Square x 14 Gauge Pickets, Add	*264.17*	
32 31 19 00-0084	EA	18' Wide x 4' High Steel Tube Double Swing Gate	3,063.20	87.95
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*669.41*	
		For Aluminum With Satin Finish, Add	*800.10*	
		For Third Rail, Add	*209.93*	
		For 1" Square x 14 Gauge Pickets, Add	*279.91*	
32 31 19 00-0085	EA	20' Wide x 4' High Steel Tube Double Swing Gate	3,221.63	97.77
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*702.86*	
		For Aluminum With Satin Finish, Add	*834.42*	
		For Third Rail, Add	*219.61*	
		For 1" Square x 14 Gauge Pickets, Add	*292.81*	

32 31 19 00-0086 5' Fence Height Steel Tube Swing Gates, 2 Rail *(32 31 19 00-0045)*

32 31 19 00-0087	EA	3' Wide x 5' High Steel Tube Single Swing Gate	895.25	21.37
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*196.62*	
		For Aluminum With Satin Finish, Add	*239.69*	
		For Third Rail, Add	*62.33*	
		For 1" Square x 14 Gauge Pickets, Add	*83.11*	
32 31 19 00-0088	EA	3'-6" Wide x 5' High Steel Tube Single Swing Gate	944.05	22.93
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*207.25*	
		For Aluminum With Satin Finish, Add	*252.26*	
		For Third Rail, Add	*65.64*	
		For 1" Square x 14 Gauge Pickets, Add	*87.53*	
32 31 19 00-0089	EA	4' Wide x 5' High Steel Tube Single Swing Gate	991.07	24.40
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*217.49*	
		For Aluminum With Satin Finish, Add	*264.30*	
		For Third Rail, Add	*68.83*	
		For 1" Square x 14 Gauge Pickets, Add	*91.77*	
32 31 19 00-0090	EA	5' Wide x 5' High Steel Tube Single Swing Gate	1,059.31	25.95
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*232.50*	
		For Aluminum With Satin Finish, Add	*282.71*	
		For Third Rail, Add	*73.60*	
		For 1" Square x 14 Gauge Pickets, Add	*98.14*	
32 31 19 00-0091	EA	6' Wide x 5' High Steel Tube Single Swing Gate	1,150.93	31.18
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*251.94*	
		For Aluminum With Satin Finish, Add	*303.18*	
		For Third Rail, Add	*79.30*	
		For 1" Square x 14 Gauge Pickets, Add	*105.74*	
32 31 19 00-0092	EA	7' Wide x 5' High Steel Tube Single Swing Gate	1,272.62	36.32
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*278.15*	
		For Aluminum With Satin Finish, Add	*332.67*	
		For Third Rail, Add	*87.26*	
		For 1" Square x 14 Gauge Pickets, Add	*116.35*	
32 31 19 00-0093	EA	8' Wide x 5' High Steel Tube Single Swing Gate	1,442.96	41.82
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*315.24*	
		For Aluminum With Satin Finish, Add	*376.35*	
		For Third Rail, Add	*98.80*	
		For 1" Square x 14 Gauge Pickets, Add	*131.73*	
32 31 19 00-0094	EA	9' Wide x 5' High Steel Tube Single Swing Gate	1,608.84	47.04
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*351.40*	
		For Aluminum With Satin Finish, Add	*419.10*	
		For Third Rail, Add	*110.07*	
		For 1" Square x 14 Gauge Pickets, Add	*146.76*	
32 31 19 00-0095	EA	10' Wide x 5' High Steel Tube Single Swing Gate	1,771.20	52.18
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*386.76*	
		For Aluminum With Satin Finish, Add	*460.79*	
		For Third Rail, Add	*121.08*	
		For 1" Square x 14 Gauge Pickets, Add	*161.44*	
32 31 19 00-0096	EA	6' Wide x 5' High Steel Tube Double Swing Gate	1,765.01	36.04
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*389.41*	
		For Aluminum With Satin Finish, Add	*483.20*	
		For Third Rail, Add	*124.66*	
		For 1" Square x 14 Gauge Pickets, Add	*166.21*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0097	EA	7' Wide x 5' High Steel Tube Double Swing Gate	1,868.80	42.01
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*411.48*	
		For Aluminum With Satin Finish, Add	*506.62*	
		For Third Rail, Add	*131.16*	
		For 1" Square x 14 Gauge Pickets, Add	*174.88*	
32 31 19 00-0098	EA	8' Wide x 5' High Steel Tube Double Swing Gate	1,973.60	48.33
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*433.69*	
		For Aluminum With Satin Finish, Add	*529.89*	
		For Third Rail, Add	*137.65*	
		For 1" Square x 14 Gauge Pickets, Add	*183.54*	
32 31 19 00-0099	EA	9' Wide x 5' High Steel Tube Double Swing Gate	2,118.06	54.39
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*464.91*	
		For Aluminum With Satin Finish, Add	*565.51*	
		For Third Rail, Add	*147.20*	
		For 1" Square x 14 Gauge Pickets, Add	*196.27*	
32 31 19 00-0100	EA	10' Wide x 5' High Steel Tube Double Swing Gate	2,244.85	60.35
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*492.15*	
		For Aluminum With Satin Finish, Add	*595.82*	
		For Third Rail, Add	*155.42*	
		For 1" Square x 14 Gauge Pickets, Add	*207.23*	
32 31 19 00-0101	EA	12' Wide x 5' High Steel Tube Double Swing Gate	2,555.76	67.13
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*560.67*	
		For Aluminum With Satin Finish, Add	*680.47*	
		For Third Rail, Add	*177.31*	
		For 1" Square x 14 Gauge Pickets, Add	*236.41*	
32 31 19 00-0102	EA	14' Wide x 5' High Steel Tube Double Swing Gate	2,835.11	74.47
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*621.93*	
		For Aluminum With Satin Finish, Add	*754.74*	
		For Third Rail, Add	*196.67*	
		For 1" Square x 14 Gauge Pickets, Add	*262.22*	
32 31 19 00-0103	EA	16' Wide x 5' High Steel Tube Double Swing Gate	3,084.64	82.64
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*676.34*	
		For Aluminum With Satin Finish, Add	*819.16*	
		For Third Rail, Add	*213.64*	
		For 1" Square x 14 Gauge Pickets, Add	*284.86*	
32 31 19 00-0104	EA	18' Wide x 5' High Steel Tube Double Swing Gate	3,308.91	91.81
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*724.83*	
		For Aluminum With Satin Finish, Add	*874.64*	
		For Third Rail, Add	*228.50*	
		For 1" Square x 14 Gauge Pickets, Add	*304.66*	
32 31 19 00-0105	EA	20' Wide x 5' High Steel Tube Double Swing Gate	3,507.92	102.08
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*767.42*	
		For Aluminum With Satin Finish, Add	*921.17*	
		For Third Rail, Add	*241.23*	
		For 1" Square x 14 Gauge Pickets, Add	*321.64*	

32 31 19 00-0106 6' Fence Height Steel Tube Swing Gates, 2 Rail *(32 31 19 00-0045)*

32 31 19 00-0107	EA	3' Wide x 6' High Steel Tube Single Swing Gate	931.73	23.48
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*204.34*	
		For Aluminum With Satin Finish, Add	*247.74*	
		For Third Rail, Add	*64.58*	
		For 1" Square x 14 Gauge Pickets, Add	*86.11*	
32 31 19 00-0108	EA	3'-6" Wide x 6' High Steel Tube Single Swing Gate	979.60	24.76
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*214.84*	
		For Aluminum With Satin Finish, Add	*260.45*	
		For Third Rail, Add	*67.90*	
		For 1" Square x 14 Gauge Pickets, Add	*90.53*	
32 31 19 00-0109	EA	4' Wide x 6' High Steel Tube Single Swing Gate	1,028.14	26.14
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*225.44*	
		For Aluminum With Satin Finish, Add	*273.06*	
		For Third Rail, Add	*71.21*	
		For 1" Square x 14 Gauge Pickets, Add	*94.95*	
32 31 19 00-0110	EA	5' Wide x 6' High Steel Tube Single Swing Gate	1,087.80	27.79
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*238.50*	
		For Aluminum With Satin Finish, Add	*288.78*	
		For Third Rail, Add	*75.33*	
		For 1" Square x 14 Gauge Pickets, Add	*100.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0111	EA	6' Wide x 6' High Steel Tube Single Swing Gate	1,220.15	33.57
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*266.97*	
		For Aluminum With Satin Finish, Add	*320.65*	
		For Third Rail, Add	*83.95*	
		For 1" Square x 14 Gauge Pickets, Add	*111.93*	
32 31 19 00-0112	EA	7' Wide x 6' High Steel Tube Single Swing Gate	1,361.35	39.43
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*297.43*	
		For Aluminum With Satin Finish, Add	*355.17*	
		For Third Rail, Add	*93.23*	
		For 1" Square x 14 Gauge Pickets, Add	*124.30*	
32 31 19 00-0113	EA	8' Wide x 6' High Steel Tube Single Swing Gate	1,519.32	44.94
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*331.74*	
		For Aluminum With Satin Finish, Add	*395.13*	
		For Third Rail, Add	*103.84*	
		For 1" Square x 14 Gauge Pickets, Add	*138.45*	
32 31 19 00-0114	EA	9' Wide x 6' High Steel Tube Single Swing Gate	1,671.13	50.72
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*364.59*	
		For Aluminum With Satin Finish, Add	*432.83*	
		For Third Rail, Add	*113.92*	
		For 1" Square x 14 Gauge Pickets, Add	*151.89*	
32 31 19 00-0115	EA	10' Wide x 6' High Steel Tube Single Swing Gate	1,856.52	56.49
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*404.99*	
		For Aluminum With Satin Finish, Add	*480.61*	
		For Third Rail, Add	*126.51*	
		For 1" Square x 14 Gauge Pickets, Add	*168.69*	
32 31 19 00-0116	EA	6' Wide x 6' High Steel Tube Double Swing Gate	1,833.20	38.88
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*404.15*	
		For Aluminum With Satin Finish, Add	*500.02*	
		For Third Rail, Add	*129.17*	
		For 1" Square x 14 Gauge Pickets, Add	*172.22*	
32 31 19 00-0117	EA	7' Wide x 6' High Steel Tube Double Swing Gate	1,940.78	45.58
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*426.92*	
		For Aluminum With Satin Finish, Add	*523.67*	
		For Third Rail, Add	*135.80*	
		For 1" Square x 14 Gauge Pickets, Add	*181.06*	
32 31 19 00-0118	EA	8' Wide x 6' High Steel Tube Double Swing Gate	2,047.35	51.91
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*449.53*	
		For Aluminum With Satin Finish, Add	*547.47*	
		For Third Rail, Add	*142.43*	
		For 1" Square x 14 Gauge Pickets, Add	*189.91*	
32 31 19 00-0119	EA	9' Wide x 6' High Steel Tube Double Swing Gate	2,176.15	58.61
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*477.07*	
		For Aluminum With Satin Finish, Add	*577.48*	
		For Third Rail, Add	*150.65*	
		For 1" Square x 14 Gauge Pickets, Add	*200.87*	
32 31 19 00-0120	EA	10' Wide x 6' High Steel Tube Double Swing Gate	2,379.20	65.30
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*521.32*	
		For Aluminum With Satin Finish, Add	*629.78*	
		For Third Rail, Add	*164.44*	
		For 1" Square x 14 Gauge Pickets, Add	*219.26*	
32 31 19 00-0121	EA	12' Wide x 6' High Steel Tube Double Swing Gate	2,791.17	72.73
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*612.43*	
		For Aluminum With Satin Finish, Add	*743.83*	
		For Third Rail, Add	*193.75*	
		For 1" Square x 14 Gauge Pickets, Add	*258.33*	
32 31 19 00-0122	EA	14' Wide x 6' High Steel Tube Double Swing Gate	2,921.46	81.26
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*639.93*	
		For Aluminum With Satin Finish, Add	*772.02*	
		For Third Rail, Add	*201.71*	
		For 1" Square x 14 Gauge Pickets, Add	*268.94*	
32 31 19 00-0123	EA	16' Wide x 6' High Steel Tube Double Swing Gate	3,207.62	90.43
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*702.35*	
		For Aluminum With Satin Finish, Add	*846.07*	
		For Third Rail, Add	*221.20*	
		For 1" Square x 14 Gauge Pickets, Add	*294.94*	
32 31 19 00-0124	EA	18' Wide x 6' High Steel Tube Double Swing Gate	3,470.28	100.61
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*759.25*	
		For Aluminum With Satin Finish, Add	*911.70*	
		For Third Rail, Add	*238.71*	
		For 1" Square x 14 Gauge Pickets, Add	*318.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0125	EA	20' Wide x 6' High Steel Tube Double Swing Gate	3,713.99	112.26
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*811.59*	
		For Aluminum With Satin Finish, Add	*969.83*	
		For Third Rail, Add	*254.49*	
		For 1" Square x 14 Gauge Pickets, Add	*339.32*	

32 31 19 00-0126 7' Fence Height Steel Tube Swing Gates, 2 Rail *(32 31 19 00-0045)*

32 31 19 00-0127	EA	3' Wide x 7' High Steel Tube Single Swing Gate	987.02	25.40
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*216.35*	
		For Aluminum With Satin Finish, Add	*261.73*	
		For Third Rail, Add	*68.30*	
		For 1" Square x 14 Gauge Pickets, Add	*91.06*	
32 31 19 00-0128	EA	3'-6" Wide x 7' High Steel Tube Single Swing Gate	1,037.03	26.78
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*227.30*	
		For Aluminum With Satin Finish, Add	*274.92*	
		For Third Rail, Add	*71.75*	
		For 1" Square x 14 Gauge Pickets, Add	*95.66*	
32 31 19 00-0129	EA	4' Wide x 7' High Steel Tube Single Swing Gate	1,087.23	28.16
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*238.28*	
		For Aluminum With Satin Finish, Add	*288.07*	
		For Third Rail, Add	*75.19*	
		For 1" Square x 14 Gauge Pickets, Add	*100.26*	
32 31 19 00-0130	EA	5' Wide x 7' High Steel Tube Single Swing Gate	1,137.50	29.62
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*249.27*	
		For Aluminum With Satin Finish, Add	*301.22*	
		For Third Rail, Add	*78.64*	
		For 1" Square x 14 Gauge Pickets, Add	*104.85*	
32 31 19 00-0131	EA	6' Wide x 7' High Steel Tube Single Swing Gate	1,315.90	36.04
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*287.96*	
		For Aluminum With Satin Finish, Add	*346.07*	
		For Third Rail, Add	*90.58*	
		For 1" Square x 14 Gauge Pickets, Add	*120.77*	
32 31 19 00-0132	EA	7' Wide x 7' High Steel Tube Single Swing Gate	1,479.23	42.19
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*323.33*	
		For Aluminum With Satin Finish, Add	*386.82*	
		For Third Rail, Add	*101.45*	
		For 1" Square x 14 Gauge Pickets, Add	*135.27*	
32 31 19 00-0133	EA	8' Wide x 7' High Steel Tube Single Swing Gate	1,597.51	48.51
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*348.50*	
		For Aluminum With Satin Finish, Add	*413.63*	
		For Third Rail, Add	*108.88*	
		For 1" Square x 14 Gauge Pickets, Add	*145.17*	
32 31 19 00-0134	EA	9' Wide x 7' High Steel Tube Single Swing Gate	1,732.55	54.66
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*377.51*	
		For Aluminum With Satin Finish, Add	*445.89*	
		For Third Rail, Add	*117.63*	
		For 1" Square x 14 Gauge Pickets, Add	*156.84*	
32 31 19 00-0135	EA	10' Wide x 7' High Steel Tube Single Swing Gate	1,898.58	61.08
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*413.42*	
		For Aluminum With Satin Finish, Add	*487.03*	
		For Third Rail, Add	*128.64*	
		For 1" Square x 14 Gauge Pickets, Add	*171.52*	
32 31 19 00-0136	EA	6' Wide x 7' High Steel Tube Double Swing Gate	1,940.29	41.64
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*427.64*	
		For Aluminum With Satin Finish, Add	*528.52*	
		For Third Rail, Add	*136.59*	
		For 1" Square x 14 Gauge Pickets, Add	*182.13*	
32 31 19 00-0137	EA	7' Wide x 7' High Steel Tube Double Swing Gate	2,052.41	48.70
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*451.35*	
		For Aluminum With Satin Finish, Add	*553.07*	
		For Third Rail, Add	*143.49*	
		For 1" Square x 14 Gauge Pickets, Add	*191.32*	
32 31 19 00-0138	EA	8' Wide x 7' High Steel Tube Double Swing Gate	2,165.55	56.12
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*475.22*	
		For Aluminum With Satin Finish, Add	*577.48*	
		For Third Rail, Add	*150.39*	
		For 1" Square x 14 Gauge Pickets, Add	*200.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0139	EA	9' Wide x 7' High Steel Tube Double Swing Gate	2,279.44	63.19
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*499.33*	
		For Aluminum With Satin Finish, Add	*602.57*	
		For Third Rail, Add	*157.41*	
		For 1" Square x 14 Gauge Pickets, Add	*209.89*	
32 31 19 00-0140	EA	10' Wide x 7' High Steel Tube Double Swing Gate	2,567.62	70.62
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*562.58*	
		For Aluminum With Satin Finish, Add	*679.49*	
		For Third Rail, Add	*177.44*	
		For 1" Square x 14 Gauge Pickets, Add	*236.59*	
32 31 19 00-0141	EA	12' Wide x 7' High Steel Tube Double Swing Gate	3,105.38	78.78
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*681.84*	
		For Aluminum With Satin Finish, Add	*830.37*	
		For Third Rail, Add	*216.03*	
		For 1" Square x 14 Gauge Pickets, Add	*288.04*	
32 31 19 00-0142	EA	14' Wide x 7' High Steel Tube Double Swing Gate	3,068.96	88.32
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*671.60*	
		For Aluminum With Satin Finish, Add	*807.19*	
		For Third Rail, Add	*211.26*	
		For 1" Square x 14 Gauge Pickets, Add	*281.67*	
32 31 19 00-0143	EA	16' Wide x 7' High Steel Tube Double Swing Gate	3,324.54	98.50
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*726.91*	
		For Aluminum With Satin Finish, Add	*870.70*	
		For Third Rail, Add	*228.23*	
		For 1" Square x 14 Gauge Pickets, Add	*304.31*	
32 31 19 00-0144	EA	18' Wide x 7' High Steel Tube Double Swing Gate	3,630.14	110.14
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*793.17*	
		For Aluminum With Satin Finish, Add	*947.40*	
		For Third Rail, Add	*248.65*	
		For 1" Square x 14 Gauge Pickets, Add	*331.54*	
32 31 19 00-0145	EA	20' Wide x 7' High Steel Tube Double Swing Gate	3,830.90	122.90
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*835.62*	
		For Aluminum With Satin Finish, Add	*991.28*	
		For Third Rail, Add	*260.99*	
		For 1" Square x 14 Gauge Pickets, Add	*347.98*	

32 31 19 00-0146 8' Fence Height Steel Tube Swing Gates, 2 Rail *(32 31 19 00-0045)*

32 31 19 00-0147	EA	3' Wide x 8' High Steel Tube Single Swing Gate	1,072.74	27.52
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*235.18*	
		For Aluminum With Satin Finish, Add	*284.67*	
		For Third Rail, Add	*74.26*	
		For 1" Square x 14 Gauge Pickets, Add	*99.02*	
32 31 19 00-0148	EA	3'-6" Wide x 8' High Steel Tube Single Swing Gate	1,125.06	28.99
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*246.60*	
		For Aluminum With Satin Finish, Add	*298.31*	
		For Third Rail, Add	*77.84*	
		For 1" Square x 14 Gauge Pickets, Add	*103.79*	
32 31 19 00-0149	EA	4' Wide x 8' High Steel Tube Single Swing Gate	1,180.93	30.54
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*258.83*	
		For Aluminum With Satin Finish, Add	*313.01*	
		For Third Rail, Add	*81.69*	
		For 1" Square x 14 Gauge Pickets, Add	*108.92*	
32 31 19 00-0150	EA	5' Wide x 8' High Steel Tube Single Swing Gate	1,230.37	34.02
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*269.16*	
		For Aluminum With Satin Finish, Add	*323.09*	
		For Third Rail, Add	*84.61*	
		For 1" Square x 14 Gauge Pickets, Add	*112.81*	
32 31 19 00-0151	EA	6' Wide x 8' High Steel Tube Single Swing Gate	1,455.86	38.52
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*318.90*	
		For Aluminum With Satin Finish, Add	*384.76*	
		For Third Rail, Add	*100.52*	
		For 1" Square x 14 Gauge Pickets, Add	*134.03*	
32 31 19 00-0152	EA	7' Wide x 8' High Steel Tube Single Swing Gate	1,619.39	46.41
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*353.91*	
		For Aluminum With Satin Finish, Add	*423.08*	
		For Third Rail, Add	*111.00*	
		For 1" Square x 14 Gauge Pickets, Add	*148.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0153	EA	8' Wide x 8' High Steel Tube Single Swing Gate	1,690.06	54.02
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*368.09*	
		For Aluminum With Satin Finish, Add	*433.97*	
		For Third Rail, Add	*114.58*	
		For 1" Square x 14 Gauge Pickets, Add	*152.77*	
32 31 19 00-0154	EA	9' Wide x 8' High Steel Tube Single Swing Gate	1,811.17	62.00
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*393.55*	
		For Aluminum With Satin Finish, Add	*459.57*	
		For Third Rail, Add	*121.87*	
		For 1" Square x 14 Gauge Pickets, Add	*162.50*	
32 31 19 00-0155	EA	10' Wide x 8' High Steel Tube Single Swing Gate	1,916.33	69.97
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*415.42*	
		For Aluminum With Satin Finish, Add	*480.39*	
		For Third Rail, Add	*127.97*	
		For 1" Square x 14 Gauge Pickets, Add	*170.63*	
32 31 19 00-0156	EA	6' Wide x 8' High Steel Tube Double Swing Gate	2,109.27	44.48
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*465.05*	
		For Aluminum With Satin Finish, Add	*575.58*	
		For Third Rail, Add	*148.66*	
		For 1" Square x 14 Gauge Pickets, Add	*198.22*	
32 31 19 00-0157	EA	7' Wide x 8' High Steel Tube Double Swing Gate	2,234.52	53.65
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*491.27*	
		For Aluminum With Satin Finish, Add	*601.35*	
		For Third Rail, Add	*156.09*	
		For 1" Square x 14 Gauge Pickets, Add	*208.12*	
32 31 19 00-0158	EA	8' Wide x 8' High Steel Tube Double Swing Gate	2,356.99	62.46
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*516.93*	
		For Aluminum With Satin Finish, Add	*626.74*	
		For Third Rail, Add	*163.38*	
		For 1" Square x 14 Gauge Pickets, Add	*217.84*	
32 31 19 00-0159	EA	9' Wide x 8' High Steel Tube Double Swing Gate	2,459.25	71.72
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*537.97*	
		For Aluminum With Satin Finish, Add	*645.62*	
		For Third Rail, Add	*169.08*	
		For 1" Square x 14 Gauge Pickets, Add	*225.45*	
32 31 19 00-0160	EA	10' Wide x 8' High Steel Tube Double Swing Gate	2,858.57	80.89
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*625.85*	
		For Aluminum With Satin Finish, Add	*753.61*	
		For Third Rail, Add	*197.07*	
		For 1" Square x 14 Gauge Pickets, Add	*262.76*	
32 31 19 00-0161	EA	12' Wide x 8' High Steel Tube Double Swing Gate	3,565.05	91.08
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*782.62*	
		For Aluminum With Satin Finish, Add	*952.39*	
		For Third Rail, Add	*247.86*	
		For 1" Square x 14 Gauge Pickets, Add	*330.48*	
32 31 19 00-0162	EA	14' Wide x 8' High Steel Tube Double Swing Gate	3,255.32	102.72
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*710.43*	
		For Aluminum With Satin Finish, Add	*844.49*	
		For Third Rail, Add	*222.13*	
		For 1" Square x 14 Gauge Pickets, Add	*296.17*	
32 31 19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate	3,484.61	116.20
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*759.14*	
		For Aluminum With Satin Finish, Add	*896.02*	
		For Third Rail, Add	*236.45*	
		For 1" Square x 14 Gauge Pickets, Add	*315.27*	
32 31 19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate	3,839.96	130.97
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*835.92*	
		For Aluminum With Satin Finish, Add	*983.56*	
		For Third Rail, Add	*259.93*	
		For 1" Square x 14 Gauge Pickets, Add	*346.57*	
32 31 19 00-0165	EA	20' Wide x 8' High Steel Tube Double Swing Gate	3,915.66	147.57
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	*849.40*	
		For Aluminum With Satin Finish, Add	*984.93*	
		For Third Rail, Add	*262.05*	
		For 1" Square x 14 Gauge Pickets, Add	*349.40*	

32 31 19 00-0166 Replace Steel Tube Fence Pickets *(32 31 19 00-0032)*

32 31 19 00-0167	LF	Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket	25.42	
		For 1" Square x 14 Gauge Pickets, Add	*0.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 31 19 00-0168 Remove And Reinstall Ornamental Fences *(32 31 19)*

Note: Removal and reinstallation of fences including storage and cleaning. Excludes augering and concrete.

32 31 19 00-0169	LF	Removal And Reinstallation Of Ornamental Fence Up To 5' Height	41.27	
32 31 19 00-0170	LF	Removal And Reinstallation Of Ornamental Fence, 6' Height	45.40	
32 31 19 00-0171	LF	Removal And Reinstallation Of Ornamental Fence, 7' Height	49.53	
32 31 19 00-0172	LF	Removal And Reinstallation Of Ornamental Fence, 8' Height	53.65	
32 31 19 00-0173	LF	Removal And Reinstallation Of Ornamental Fence, 9' Height	57.78	
32 31 19 00-0174	LF	Removal And Reinstallation Of Ornamental Fence, 10' Height	61.91	
32 31 19 00-0175	LF	Removal And Reinstallation Of Ornamental Fence 12' Height	68.79	

32 31 23 Plastic Fences and Gates *(32 31)*

32 31 23 00-0001 Vinyl Fence *(32 31 23)*

32 31 23 00-0002 Privacy Tongue And Groove Vinyl Fence *(32 31 23 00-0001)*

Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Posts include flat cap.

32 31 23 00-0003	LF	3' High Privacy Tongue And Groove Vinyl Fence	38.40	4.65
32 31 23 00-0004	LF	4' High Privacy Tongue And Groove Vinyl Fence	43.16	5.58
32 31 23 00-0005	LF	5' High Privacy Tongue And Groove Vinyl Fence	48.28	6.50
32 31 23 00-0006	LF	6' High Privacy Tongue And Groove Vinyl Fence	53.29	7.43

32 31 23 00-0007 Semi-Privacy 6" Picket Vinyl Fence *(32 31 23 00-0001)*

Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Posts include flat cap.

32 31 23 00-0008	LF	5' High Semi-Privacy 6" Picket Vinyl Fence	51.55	6.50
32 31 23 00-0009	LF	6' High Semi-Privacy 6" Picket Vinyl Fence	56.60	7.43

32 31 23 00-0010 Picket Straight Top Vinyl Fence *(32 31 23 00-0001)*

Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.

32 31 23 00-0011	LF	3' High Picket Straight Top Vinyl Fence	35.51	4.65
32 31 23 00-0012	LF	4' High Picket Straight Top Vinyl Fence	40.42	5.58
32 31 23 00-0013	LF	5' High Picket Straight Top Vinyl Fence	46.36	6.50
32 31 23 00-0014	LF	6' High Picket Straight Top Vinyl Fence	51.41	7.43

32 31 23 00-0015 Picket Scalloped Top Vinyl Fence *(32 31 23 00-0001)*

Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Posts include flat cap.

32 31 23 00-0016	LF	3' High Picket Scalloped Top Vinyl Fence	39.23	4.65
32 31 23 00-0017	LF	4' High Picket Scalloped Top Vinyl Fence	44.25	5.58
32 31 23 00-0018	LF	5' High Picket Scalloped Top Vinyl Fence	49.94	6.50
32 31 23 00-0019	LF	6' High Picket Scalloped Top Vinyl Fence	55.11	7.43

32 31 23 00-0020 Post And Rail Vinyl Fence, Ranch Style *(32 31 23 00-0001)*

Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Posts include flat cap.

32 31 23 00-0021	LF	5' High, 2 Rail, Post And Rail Vinyl Fence	15.17	4.65
32 31 23 00-0022	LF	6-1/2' High, 3 Rail, Post And Rail Vinyl Fence	19.37	5.58
32 31 23 00-0023	LF	7' High, 4 Rail, Post And Rail Vinyl Fence	22.20	6.04

32 31 23 00-0024 Post, Rails And Pickets (Traditional Style) Vinyl Fence *(32 31 23 00-0001)*

Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Posts include flat cap.

32 31 23 00-0025	LF	3' High Rail And Picket Vinyl Fence, 72" On Center Posts	45.84	5.11
32 31 23 00-0026	LF	4' High Rail And Picket Vinyl Fence, 72" On Center Posts	50.22	6.04
32 31 23 00-0027	LF	3' High Rail And Picket Vinyl Fence, 96" On Center Posts	43.19	4.65
32 31 23 00-0028	LF	4' High Rail And Picket Vinyl Fence, 96" On Center Posts	47.14	5.58

32 31 23 00-0029 Vinyl Gates *(32 31 23)*

32 31 23 00-0030 Gates For Privacy And Semi-Privacy Fences *(32 31 23 00-0029)*

Note: Includes hinges.

32 31 23 00-0031 3' High Gates For Privacy And Semi-Privacy Fences *(32 31 23 00-0030)*

32 31 23 00-0032	EA	3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	423.52	46.45
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0033	EA	3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	449.25	48.77
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0034	EA	3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	492.23	51.09
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0035	EA	3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	550.53	53.42
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0036		**4' High Gates For Privacy And Semi-Privacy Fences** *(32 31 23 00-0030)*		
32 31 23 00-0037	EA	4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	449.25	48.77
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0038	EA	4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	465.40	51.09
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0039	EA	4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	516.03	53.42
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0040	EA	4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	603.09	55.74
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0041		**5' High Gates For Privacy And Semi-Privacy Fences** *(32 31 23 00-0030)*		
32 31 23 00-0042	EA	5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	465.40	51.09
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0043	EA	5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	485.37	53.42
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0044	EA	5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	555.17	55.74
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0045	EA	5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	646.07	58.06
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0046		**6' High Gates For Privacy And Semi-Privacy Fences** *(32 31 23 00-0030)*		
32 31 23 00-0047	EA	6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	490.01	55.74
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0048	EA	6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	509.99	58.06
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0049	EA	6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	612.39	60.39
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0050	EA	6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set	674.53	60.39
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0051		**Gates For Picket Fences** *(32 31 23 00-0029)* Note: Includes hinges.		
32 31 23 00-0052		**3' High Gates For Picket Fences** *(32 31 23 00-0051)*		
32 31 23 00-0053	EA	3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set	406.27	46.45
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0054	EA	3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set	422.41	48.77
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0055	EA	3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set	473.06	51.09
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0056	EA	3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set	560.12	53.42
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0057		**4' High Gates For Picket Fences** *(32 31 23 00-0051)*		
32 31 23 00-0058	EA	4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set	410.91	48.77
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0059	EA	4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set	427.06	51.09
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0060	EA	4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set	477.70	53.42
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0061	EA	4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set	564.76	55.74
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0062		**5' High Gates For Picket Fences** *(32 31 23 00-0051)*		
32 31 23 00-0063	EA	5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set	427.06	51.09
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0064	EA	5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set	447.04	53.42
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0065	EA	5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set	516.84	55.74
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0066	EA	5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set	607.74	58.06
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0067		**6' High Gates For Picket Fences** *(32 31 23 00-0051)*		
32 31 23 00-0068	EA	6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set	451.68	55.74
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0069	EA	6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set	471.66	58.06
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0070	EA	6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set	574.06	60.39
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0071	EA	6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set	636.19	62.71
		For Self-Closing Hinge Set, Add	*14.50*	
		For Self-Closing Stainless Steel Hinge Set, Add	*38.50*	
32 31 23 00-0072		**Gates Accessories** *(32 31 23 00-0029)*		
32 31 23 00-0073	EA	Gate Stop/Drop Rod	92.21	
32 31 23 00-0074	EA	Latch Set	64.42	
32 31 23 00-0075	EA	Stainless Steel Latch Set	92.21	
32 31 26		**Wire Fences and Gates** *(32 31)*		
32 31 26 13		**Wire Fences with Steel Posts** *(32 31 26)*		
32 31 26 13-0001		**Chicken Wire** *(32 31 26 13)*		
		Note: Posts at 4'.		
32 31 26 13-0002	LF	4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'	7.62	1.65
32 31 26 13-0003	LF	6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'	8.35	1.65
32 31 26 13-0004		**Wire And Screen** *(32 31 26 13)*		
32 31 26 13-0005		**Wire And Screen For Partitions And Fences** *(32 31 26 13-0004)*		
		Note: Excludes framing and post.		
32 31 26 13-0006		**Screen Wire** *(32 31 26 13-0005)*		
32 31 26 13-0007	LF	Screen Wire, 48" Wide Rolls	10.35	0.94
32 31 26 13-0008		**Hog Wire** *(32 31 26 13-0005)*		
32 31 26 13-0009	SF	4" x 4" Hog Wire For Fencing	1.86	0.75
32 31 26 13-0010	SF	6" x 6" Hog Wire For Fencing	1.95	0.85
32 31 26 13-0011		**Non-Climb Horse Fence** *(32 31 26 13-0005)*		
32 31 26 13-0012	LF	4' Non-Climb Woven, 12.5 Gauge, Horse Fence	8.36	3.00
32 31 26 13-0013	LF	5' Non-Climb Woven, 12.5 Gauge, Horse Fence	10.69	3.75
32 31 26 13-0014	LF	6' Non-Climb Woven, 12.5 Gauge, Horse Fence	13.34	4.49
32 31 26 13-0015		**Screen For Partitions And Ceilings** *(32 31 26 13-0004)*		
		Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF	1" Mesh Chicken Wire	1.65	
32 31 26 13-0017		**Wicket Fence** *(32 31 26 13)*		
32 31 26 13-0018	LF	Steel Wicket Fence, Painted	52.31	4.61
32 31 29		**Wood Fences and Gates** *(32 31)*		
		See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001		**Basket Weave** *(32 31 29)*		
		Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF	6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post	41.50	3.29
		For Fastening With Screws Instead Of Nails, Add	*2.42*	
32 31 29 00-0003	LF	6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post	27.05	3.29
		For Fastening With Screws Instead Of Nails, Add	*1.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0004		**Board Fence** *(32 31 29)*		
		Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF	Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence	27.08	3.29
		For 1" x 6" Boards, Deduct	*-2.75*	
		For 1" x 3" Boards (Stockade Top), Add	*3.39*	
		For Fastening With Screws Instead Of Nails, Add	*1.73*	
32 31 29 00-0006	LF	Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence	30.22	3.29
		For 1" x 6" Boards, Deduct	*-3.00*	
		For 1" x 3" Boards (Stockade Top), Add	*3.68*	
		For Fastening With Screws Instead Of Nails, Add	*1.92*	
32 31 29 00-0007	LF	Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence	33.92	3.29
		For 1" x 6" Boards, Deduct	*-3.22*	
		For 1" x 3" Boards (Stockade Top), Add	*3.90*	
		For Fastening With Screws Instead Of Nails, Add	*2.12*	
32 31 29 00-0008	LF	Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence	36.29	3.29
		For 1" x 6" Boards, Deduct	*-3.39*	
		For 1" x 3" Boards (Stockade Top), Add	*4.09*	
		For Fastening With Screws Instead Of Nails, Add	*2.26*	
32 31 29 00-0009	LF	Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence	38.85	3.29
		For 1" x 6" Boards, Deduct	*-3.57*	
		For 1" x 3" Boards (Stockade Top), Add	*4.28*	
		For Fastening With Screws Instead Of Nails, Add	*2.40*	
32 31 29 00-0010	LF	Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence	29.09	3.29
		For 1" x 6" Boards, Deduct	*-2.83*	
		For 1" x 3" Boards (Stockade Top), Add	*3.46*	
		For Fastening With Screws Instead Of Nails, Add	*1.83*	
32 31 29 00-0011	LF	Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence	31.77	3.29
		For 1" x 6" Boards, Deduct	*-3.07*	
		For 1" x 3" Boards (Stockade Top), Add	*3.73*	
		For Fastening With Screws Instead Of Nails, Add	*2.00*	
32 31 29 00-0012	LF	Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence	33.92	3.29
		For 1" x 6" Boards, Deduct	*-3.22*	
		For 1" x 3" Boards (Stockade Top), Add	*3.90*	
		For Fastening With Screws Instead Of Nails, Add	*2.12*	
32 31 29 00-0013	LF	Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence	36.29	3.29
		For 1" x 6" Boards, Deduct	*-3.39*	
		For 1" x 3" Boards (Stockade Top), Add	*4.09*	
		For Fastening With Screws Instead Of Nails, Add	*2.26*	
32 31 29 00-0014	LF	Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence	38.85	3.29
		For 1" x 6" Boards, Deduct	*-3.57*	
		For 1" x 3" Boards (Stockade Top), Add	*4.28*	
		For Fastening With Screws Instead Of Nails, Add	*2.40*	
32 31 29 00-0015	LF	Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence	29.10	3.29
		For 1" x 6" Boards, Deduct	*-2.83*	
		For 1" x 3" Boards (Stockade Top), Add	*3.46*	
		For Fastening With Screws Instead Of Nails, Add	*1.83*	
32 31 29 00-0016	LF	Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence	38.62	3.29
		For 1" x 6" Boards, Deduct	*-3.34*	
		For 1" x 3" Boards (Stockade Top), Add	*3.93*	
		For Fastening With Screws Instead Of Nails, Add	*2.34*	
32 31 29 00-0017	LF	Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence	40.49	3.29
		For 1" x 6" Boards, Deduct	*-3.48*	
		For 1" x 3" Boards (Stockade Top), Add	*4.10*	
		For Fastening With Screws Instead Of Nails, Add	*2.45*	
32 31 29 00-0018	LF	Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence	43.64	3.29
		For 1" x 6" Boards, Deduct	*-3.68*	
		For 1" x 3" Boards (Stockade Top), Add	*4.31*	
		For Fastening With Screws Instead Of Nails, Add	*2.62*	
32 31 29 00-0019	LF	Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence	47.04	3.29
		For 1" x 6" Boards, Deduct	*-3.89*	
		For 1" x 3" Boards (Stockade Top), Add	*4.52*	
		For Fastening With Screws Instead Of Nails, Add	*2.81*	
32 31 29 00-0020		**Shadow Box** *(32 31 29)*		
		Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021	LF	Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine	55.69	3.29
		For Fastening With Screws Instead Of Nails, Add	*3.13*	
32 31 29 00-0022	LF	Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar	70.00	3.29
		For Fastening With Screws Instead Of Nails, Add	*3.91*	
32 31 29 00-0023	LF	Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	76.28	3.29
		For Fastening With Screws Instead Of Nails, Add	*4.24*	
32 31 29 00-0024	LF	Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar	81.96	3.29
		For Fastening With Screws Instead Of Nails, Add	*4.55*	
32 31 29 00-0025		**Open Rail Fence** *(32 31 29)*		
32 31 29 00-0026		**Post And Rail Fence, Ranch Style** *(32 31 29 00-0025)*		
32 31 29 00-0027	LF	Post And Rail Fence, 2 Rails, 3' High #1 Cedar	26.90	3.29
32 31 29 00-0028	LF	Post And Rail Fence, 2 Rails, 3' High #2 Cedar	20.72	3.29
32 31 29 00-0029	LF	Post And Rail Fence, 3 Rails, 4' High #1 Cedar	32.04	3.29
32 31 29 00-0030	LF	Post And Rail Fence, 3 Rails, 4' High #2 Cedar	22.40	3.29

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0031		**Split Rail Fence** *(32 31 29 00-0025)*		
32 31 29 00-0032	LF	Split Rail Fence, 2 Rails, 3' High #1 Cedar	25.31	3.29
32 31 29 00-0033	LF	Split Rail Fence, 2 Rails, 3' High #2 Cedar	20.65	3.29
32 31 29 00-0034	LF	Split Rail Fence, 3 Rail, 4' High #1 Cedar	29.00	3.29
32 31 29 00-0035	LF	Split Rail Fence, 3 Rail, 4' High #2 Cedar	23.30	3.29
32 31 29 00-0036		**Picket Fence** *(32 31 29)*		
32 31 29 00-0037	LF	Picket Fence, 2 Rail, 3' High, Pressure Treated	30.06	3.29
		For Fastening With Screws Instead Of Nails, Add	*1.90*	
32 31 29 00-0038	LF	Picket Fence, 2 Rail, 3' High #1 Cedar	28.03	3.29
		For Fastening With Screws Instead Of Nails, Add	*1.80*	
32 31 29 00-0039		**Wood Fence Post Accessories** *(32 31 29)*		
32 31 29 00-0040	EA	3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap	35.27	
32 31 29 00-0041	EA	4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap	38.86	
32 31 29 00-0042	EA	6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap	42.52	
32 31 29 00-0043	EA	8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap	60.59	
32 31 29 00-0044		**Wood Gate** *(32 31 29)*		
32 31 29 00-0045		**Board Fence Gates, Pressure Treated Wood** *(32 31 29 00-0044)*		
		Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046	EA	3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	408.11	117.12
32 31 29 00-0047	EA	3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	453.45	124.15
32 31 29 00-0048	EA	3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	508.17	135.86
32 31 29 00-0049	EA	3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	581.33	142.89
32 31 29 00-0050	EA	3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	654.49	149.92
32 31 29 00-0051	EA	>5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	517.84	154.60
32 31 29 00-0052	EA	>5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	566.65	161.63
32 31 29 00-0053	EA	>5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	615.48	168.65
32 31 29 00-0054	EA	>5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	699.07	175.69
32 31 29 00-0055	EA	>5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	765.29	182.71
32 31 29 00-0056		**Board Fence Gates, Grade 2 Cedar** *(32 31 29 00-0044)*		
		Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057	EA	3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	675.52	103.05
32 31 29 00-0058	EA	3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	698.31	109.24
32 31 29 00-0059	EA	3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	732.84	119.54
32 31 29 00-0060	EA	3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	773.01	125.73
32 31 29 00-0061	EA	3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	823.63	131.91
32 31 29 00-0062	EA	>5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	793.63	136.03
32 31 29 00-0063	EA	>5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	823.38	142.21
32 31 29 00-0064	EA	>5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	870.52	148.40
32 31 29 00-0065	EA	>5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	917.65	154.58
32 31 29 00-0066	EA	>5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	964.79	160.76
32 31 29 00-0067		**Board Fence Gates, Grade 1 Cedar** *(32 31 29 00-0044)*		
		Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068	EA	3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	727.67	103.05
32 31 29 00-0069	EA	3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	757.42	109.24
32 31 29 00-0070	EA	3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	795.43	119.54
32 31 29 00-0071	EA	3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	842.56	125.73
32 31 29 00-0072	EA	3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	889.70	131.91
32 31 29 00-0073	EA	>5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	863.18	136.03
32 31 29 00-0074	EA	>5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	892.92	142.21
32 31 29 00-0075	EA	>5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	940.06	148.40
32 31 29 00-0076	EA	>5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	987.19	154.58
32 31 29 00-0077	EA	>5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,051.72	160.76
32 31 29 00-0078		**Pressure Treated Wood Fence Posts** *(32 31 29)*		
		See CSI section 32 31 13 13-0001 for drilling augering, 32 31 56 00-0017 for barbed wire.		
32 31 29 00-0079	EA	4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	38.61	11.71
32 31 29 00-0080	EA	6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	44.11	11.71
32 31 29 00-0081	EA	4' High, Pressure Treated Wood Fence Posts, Set In Concrete	67.23	22.49
32 31 29 00-0082	EA	6' High, Pressure Treated Wood Fence Posts, Set In Concrete	73.49	22.49
32 31 29 00-0083		**Wood Utility Pole Fence** *(32 31 29)*		
		Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.		
32 31 29 00-0084	LF	Wood Utility Pole Barrier Fence	49.48	3.29
		Note: Includes notching post, drilling and pinned with #5 rebar.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0085		**Wood Rail Fence** *(32 31 29)* Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086	LF	4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	22.82	3.29

32 31 41 Precast Concrete Fences *(32 31)*

32 31 41 00-0001		**Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete.** *(32 31 41)* Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002	LF	Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.	55.88	3.29

32 31 56 Wild Life Deterrent Fence *(32 31)*

32 31 56 00-0001		**Barbed Wire Fences** *(32 31 56)* Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 56 00-0002		**Fence Posts** *(32 31 56 00-0001)*		
32 31 56 00-0003		**Fence Post Soil, Set In Concrete** *(32 31 56 00-0002)*		
32 31 56 00-0004	EA	Barbed Wire Fence Post, Galvanized Set In Concrete In Soil	86.96	7.33
		For Bracing On Corner Post, End Post And Pull Post, Add	*140.02*	
32 31 56 00-0005	EA	Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil	116.29	7.33
		For Bracing On Corner Post, End Post And Pull Post, Add	*189.01*	
32 31 56 00-0006		**Post In Rock** *(32 31 56 00-0002)*		
32 31 56 00-0007	EA	Barbed Wire Fence Post, Galvanized Grouted In Rock	85.34	7.33
		For Bracing On Corner Post, End Post And Pull Post, Add	*137.59*	
32 31 56 00-0008	EA	Barbed Wire Fence Post, Vinyl Coated Grouted In Rock	114.67	7.33
		For Bracing On Corner Post, End Post And Pull Post, Add	*186.58*	
32 31 56 00-0009		**Studded Steel T-Posts, Enamel Paint Finish** *(32 31 56 00-0001)* Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010	EA	5' Studded Steel T-Post, Driven Into Earth	22.42	
32 31 56 00-0011	EA	5'-6" Studded Steel T-Post, Driven Into Earth	22.96	
32 31 56 00-0012	EA	6' Studded Steel T-Post, Driven Into Earth	23.88	
32 31 56 00-0013	EA	6'-6" Studded Steel T-Post, Driven Into Earth	24.80	
32 31 56 00-0014	EA	7' Studded Steel T-Post, Driven Into Earth	25.99	
32 31 56 00-0015	EA	8' Studded Steel T-Post, Driven Into Earth	29.05	
32 31 56 00-0016	EA	10' Studded Steel T-Post, Driven Into Earth	34.56	
32 31 56 00-0017		**Barbed Wire** *(32 31 56 00-0001)* Note: Per strand.		
32 31 56 00-0018	LF	Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.81	0.37
32 31 56 00-0019	LF	Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand	0.93	0.37
32 31 56 00-0020		**Barbed Wire Fence, Farm Style, With Wood Posts** *(32 31 56 00-0001)* Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021	LF	4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts Note: Posts at 10' maximum.	9.55	2.38

32 32 Retaining Walls *(32 30)*

32 32 13 Cast-In-Place Concrete Retaining Wall *(32 32)*

Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0001	LF	4' High With Base, 10" Thick Reinforced	330.28	120.83
		For >3:1 Sloped Soil At Top, Add	*7.54*	
32 32 13 00-0002	LF	6' High With Base, 10" Thick Reinforced	411.98	148.68
		For >3:1 Sloped Soil At Top, Add	*9.74*	
32 32 13 00-0003	LF	8' High With Base, 10" Thick Reinforced	448.75	160.38
		For >3:1 Sloped Soil At Top, Add	*10.88*	
32 32 13 00-0004	LF	10' High With Base, 13" Thick Reinforced	571.60	198.30
		For >3:1 Sloped Soil At Top, Add	*14.88*	
32 32 13 00-0005	LF	12' High With Base, 14" Thick Reinforced	658.75	227.77
		For >3:1 Sloped Soil At Top, Add	*17.26*	
32 32 13 00-0006	LF	16' High With Base, 16" Thick Reinforced	953.03	334.15
		For >3:1 Sloped Soil At Top, Add	*24.21*	
32 32 13 00-0007	LF	20' High With Base, 18" Thick Reinforced	1,308.33	461.32
		For >3:1 Sloped Soil At Top, Add	*32.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 13 00-0008	LF	4' High With Base, 12" Thick Reinforced	362.94	131.95
		For >3:1 Sloped Soil At Top, Add	*8.42*	
32 32 13 00-0009	LF	6' High With Base, 12" Thick Reinforced	444.23	159.00
		For >3:1 Sloped Soil At Top, Add	*10.74*	
32 32 13 00-0010	LF	8' High With Base, 12" Thick Reinforced	470.36	165.90
		For >3:1 Sloped Soil At Top, Add	*11.78*	
32 32 13 00-0011	LF	10' High With Base, 16" Thick Reinforced	647.01	222.34
		For >3:1 Sloped Soil At Top, Add	*17.19*	
32 32 13 00-0012	LF	12' High With Base, 18" Thick Reinforced	820.43	285.59
		For >3:1 Sloped Soil At Top, Add	*21.19*	
32 32 13 00-0013	LF	16' High With Base, 21" Thick Reinforced	1,230.26	432.90
		For >3:1 Sloped Soil At Top, Add	*30.99*	
32 32 13 00-0014	LF	20' High With Base, 24" Thick Reinforced	1,736.27	611.05
		For >3:1 Sloped Soil At Top, Add	*43.70*	

32 32 16 Precast Concrete Retaining Walls *(32 32)*

32 32 16 00-0001 Precast Retaining Walls *(32 32 16)*

Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.

32 32 16 00-0002	SF	Precast Concrete Retaining Walls, 10-15' High Tied-back Earth Walls	85.27	12.02
32 32 16 00-0003	SF	Precast Concrete Retaining Walls, 16-20' High Tied-back Earth Walls	87.68	9.66
32 32 16 00-0004	SF	Precast Concrete Retaining Walls, 21-25' High Tied-back Earth Walls	91.04	8.05
32 32 16 00-0005	SF	Precast Concrete Retaining Walls, 26-30' High Tied-back Earth Walls	98.48	8.05
32 32 16 00-0006	SF	Precast Concrete Retaining Walls, >30' High Tied-back Earth Walls	104.24	6.87

32 32 23 Segmental Retaining Walls *(32 32)*

32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls *(32 32 23)*

32 32 23 13-0001 Modular Retaining Wall Systems *(32 32 23 13)*

Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.

32 32 23 13-0002 "Amastone" Type Modular Retaining Wall Systems *(32 32 23 13-0001)*

32 32 23 13-0003	SF	Up To 4' Height "Amastone" Type Modular Retaining Wall System	67.58	7.42
		For >3:1 Sloped Soil At Top, Add	*4.48*	
32 32 23 13-0004	SF	4 To 8' Height "Amastone" Type Modular Retaining Wall System	71.30	7.81
		For >3:1 Sloped Soil At Top, Add	*4.73*	
32 32 23 13-0005	SF	8 To 12' Height "Amastone" Type Modular Retaining Wall System	74.13	8.59
		For >3:1 Sloped Soil At Top, Add	*4.84*	
32 32 23 13-0006	SF	12 To 16' Height "Amastone" Type Modular Retaining Wall System	77.14	9.37
		For >3:1 Sloped Soil At Top, Add	*4.96*	

32 32 23 13-0007 "Diamond" Type Modular Retaining Wall Systems *(32 32 23 13-0001)*

32 32 23 13-0008	SF	Up To 4' Height "Diamond" Type Modular Retaining Wall System	70.33	7.42
		For >3:1 Sloped Soil At Top, Add	*4.72*	
32 32 23 13-0009	SF	4 To 8' Height "Diamond" Type Modular Retaining Wall System	74.05	7.81
		For >3:1 Sloped Soil At Top, Add	*4.97*	
32 32 23 13-0010	SF	8 To 12' Height "Diamond" Type Modular Retaining Wall System	76.89	8.59
		For >3:1 Sloped Soil At Top, Add	*5.07*	
32 32 23 13-0011	SF	12 To 16' Height "Diamond" Type Modular Retaining Wall System	79.89	9.37
		For >3:1 Sloped Soil At Top, Add	*5.20*	

32 32 23 13-0012 "Keystone" Type Modular Retaining Wall Systems *(32 32 23 13-0001)*

32 32 23 13-0013	SF	Up To 4' Height "Keystone" Type Modular Retaining Wall System	76.92	7.42
		For >3:1 Sloped Soil At Top, Add	*5.28*	
32 32 23 13-0014	SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System	80.64	7.81
		For >3:1 Sloped Soil At Top, Add	*5.53*	
32 32 23 13-0015	SF	8 To 12' Height "Keystone" Type Modular Retaining Wall System	83.47	8.59
		For >3:1 Sloped Soil At Top, Add	*5.63*	
32 32 23 13-0016	SF	12 To 16' Height "Keystone" Type Modular Retaining Wall System	86.48	9.37
		For >3:1 Sloped Soil At Top, Add	*5.76*	

32 32 23 13-0017 "Criblock" Type Modular Retaining Wall Systems *(32 32 23 13-0001)*

32 32 23 13-0018	SF	Up To 4' Height "Criblock" Type Modular Retaining Wall System	67.58	7.42
		For >3:1 Sloped Soil At Top, Add	*4.48*	
		For Gravel Backfill Instead Of Earth, Add	*0.25*	
32 32 23 13-0019	SF	4 To 8' Height "Criblock" Type Modular Retaining Wall System	71.30	7.81
		For >3:1 Sloped Soil At Top, Add	*4.73*	
		For Gravel Backfill Instead Of Earth, Add	*0.25*	
32 32 23 13-0020	SF	8 To 12' Height "Criblock" Type Modular Retaining Wall System	74.13	8.59
		For >3:1 Sloped Soil At Top, Add	*4.84*	
		For Gravel Backfill Instead Of Earth, Add	*0.25*	
32 32 23 13-0021	SF	12 To 16' Height "Criblock" Type Modular Retaining Wall System	77.14	9.37
		For >3:1 Sloped Soil At Top, Add	*4.96*	
		For Gravel Backfill Instead Of Earth, Add	*0.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0022		**"Versa-Lok" Type Modular Retaining Wall Systems** *(32 32 23 13-0001)*		
32 32 23 13-0023	SF	Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System	59.21	7.42
		For >3:1 Sloped Soil At Top, Add	*3.77*	
32 32 23 13-0024	SF	4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System	65.69	7.81
		For >3:1 Sloped Soil At Top, Add	*4.26*	
32 32 23 13-0025	SF	8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System	68.57	8.59
		For >3:1 Sloped Soil At Top, Add	*4.37*	
32 32 23 13-0026	SF	12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System	71.07	9.37
		For >3:1 Sloped Soil At Top, Add	*4.45*	
32 32 23 13-0027		**Retaining Wall Cap Block Restoration** *(32 32 23 13-0001)*		
		Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028	LF	Removal And Reinstall Retaining Wall Cap Block And Pins	25.23	
		For >3:1 Sloped Soil At Top, Add	*1.20*	
32 32 26		**Metal Crib Retaining Walls** *(32 32)*		
32 32 26 00-0001		**Bin Type Retaining Wall** *(32 32 26)*		
32 32 26 00-0002		**Vertical Bin Walls** *(32 32 26 00-0001)*		
		Note: Excludes excavation and backfill.		
32 32 26 00-0003	SF	5.5' Vertical Bin Retaining Wall, Wall Heights To 11'	53.33	
32 32 26 00-0004	SF	7.7' Vertical Bin Retaining Wall, Wall Heights, 8.33' To 16.33'	62.24	
32 32 26 00-0005	SF	9.9' Vertical Bin Retaining Wall, Wall Heights, 13.67' To 21.67'	72.41	
32 32 26 00-0006	SF	12.1' Vertical Bin Retain Wall, Wall Heights 17.67' To 25.67'	77.75	
32 32 26 00-0007	SF	14.3' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	87.14	
32 32 26 00-0008	SF	16.5' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	92.48	
32 32 26 00-0009		**Battered Bin Walls** *(32 32 26 00-0001)*		
		Note: Excludes excavation and backfill.		
32 32 26 00-0010	SF	5.5' Battered Bin Retain Wall, Wall Heights To 11'	48.56	
32 32 26 00-0011	SF	7.7' Battered Bin Retain Wall, Wall Heights 8.33' To 16.33'	52.13	
32 32 26 00-0012	SF	9.9' Battered Bin Retain Wall, Wall Heights 13.67' To 21.67'	58.65	
32 32 26 00-0013	SF	12.1' Battered Bin Retain Wall, Wall Heights 17.67' To 25.67'	64.89	
32 32 26 00-0014	SF	14.3' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	76.03	
32 32 26 00-0015	SF	16.5' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	77.81	
32 32 26 00-0016		**Aluminized Steel Bin** *(32 32 26)*		
		Note: Excludes excavation and backfill.		
32 32 26 00-0017	SF	4' High, 5.5' Deep Aluminized Steel Bin	31.68	4.36
		For >3:1 Sloped Soil At Top, Add	*1.95*	
		For Galvanized Type, Deduct	*-2.30*	
32 32 26 00-0018	SF	8' High, 5.5' Deep Aluminized Steel Bin	35.26	4.36
		For >3:1 Sloped Soil At Top, Add	*2.25*	
		For Galvanized Type, Deduct	*-2.65*	
32 32 26 00-0019	SF	10' High, 7.7' Deep Aluminized Steel Bin	37.68	4.77
		For >3:1 Sloped Soil At Top, Add	*2.40*	
		For Galvanized Type, Deduct	*-2.82*	
32 32 26 00-0020	SF	12' High, 7.7' Deep Aluminized Steel Bin	42.90	5.37
		For >3:1 Sloped Soil At Top, Add	*2.73*	
		For Galvanized Type, Deduct	*-3.22*	
32 32 26 00-0021	SF	16' High, 7.7' Deep Aluminized Steel Bin	41.47	5.57
		For >3:1 Sloped Soil At Top, Add	*2.59*	
		For Galvanized Type, Deduct	*-3.04*	
32 32 26 00-0022	SF	16' High, 9.9' Deep Aluminized Steel Bin	45.99	5.67
		For >3:1 Sloped Soil At Top, Add	*2.95*	
		For Galvanized Type, Deduct	*-3.47*	
32 32 26 00-0023	SF	20' High, 9.9' Deep Aluminized Steel Bin	50.90	5.98
		For >3:1 Sloped Soil At Top, Add	*3.30*	
		For Galvanized Type, Deduct	*-3.89*	
32 32 26 00-0024	SF	20' High, 12.1' Deep Aluminized Steel Bin	52.15	6.28
		For >3:1 Sloped Soil At Top, Add	*3.37*	
		For Galvanized Type, Deduct	*-3.97*	
32 32 26 00-0025	SF	24' High, 12.1' Deep Aluminized Steel Bin	54.73	6.28
		For >3:1 Sloped Soil At Top, Add	*3.58*	
		For Galvanized Type, Deduct	*-4.22*	
32 32 26 00-0026	SF	24' High, 14.3' Deep Aluminized Steel Bin	57.32	6.38
		For >3:1 Sloped Soil At Top, Add	*3.80*	
		For Galvanized Type, Deduct	*-4.47*	
32 32 26 00-0027	SF	28' High, 14.3' Deep Aluminized Steel Bin	59.19	6.48
		For >3:1 Sloped Soil At Top, Add	*3.94*	
		For Galvanized Type, Deduct	*-4.63*	
32 32 29		**Timber Retaining Walls** *(32 32)*		
32 32 29 00-0001		**Wood Post Retaining Walls** *(32 32 29)*		
		Note: System elements include wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0002	LF	4" x 4", 1' High, Redwood, Wood Post Retaining Walls	103.34	24.87
		For >3:1 Sloped Soil At Top, Add	*4.56*	
32 32 29 00-0003	LF	4" x 4", 2' High, Redwood, Wood Post Retaining Walls	202.03	48.69
		For >3:1 Sloped Soil At Top, Add	*8.90*	
32 32 29 00-0004	LF	4" x 4", 1' High, Cedar, Wood Post Retaining Walls	96.49	24.87
		For >3:1 Sloped Soil At Top, Add	*3.98*	
32 32 29 00-0005	LF	4" x 4", 2' High, Cedar, Wood Post Retaining Walls	188.70	48.69
		For >3:1 Sloped Soil At Top, Add	*7.77*	
32 32 29 00-0006	LF	4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls	83.29	21.73
		For >3:1 Sloped Soil At Top, Add	*3.38*	
32 32 29 00-0007	LF	4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	163.14	42.50
		For >3:1 Sloped Soil At Top, Add	*6.64*	
32 32 29 00-0008	LF	4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls	83.90	19.28
		For >3:1 Sloped Soil At Top, Add	*3.85*	
32 32 29 00-0009	LF	4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls	151.67	34.91
		For >3:1 Sloped Soil At Top, Add	*6.96*	
32 32 29 00-0010	LF	6" x 6", 2' High, Redwood, Wood Post Retaining Walls	293.09	58.99
		For >3:1 Sloped Soil At Top, Add	*14.89*	
32 32 29 00-0011	LF	6" x 6", 4' High, Redwood, Wood Post Retaining Walls	581.43	115.62
		For >3:1 Sloped Soil At Top, Add	*29.77*	
32 32 29 00-0012	LF	6" x 6", 2' High, Cedar, Wood Post Retaining Walls	285.48	58.99
		For >3:1 Sloped Soil At Top, Add	*14.24*	
32 32 29 00-0013	LF	6" x 6", 4' High, Cedar, Wood Post Retaining Walls	562.39	115.62
		For >3:1 Sloped Soil At Top, Add	*28.15*	
32 32 29 00-0014	LF	6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	222.55	47.91
		For >3:1 Sloped Soil At Top, Add	*10.77*	
32 32 29 00-0015	LF	6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	442.66	94.60
		For >3:1 Sloped Soil At Top, Add	*21.54*	
32 32 29 00-0016	LF	6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls	208.05	38.31
		For >3:1 Sloped Soil At Top, Add	*11.16*	
32 32 29 00-0017	LF	6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls	410.71	74.97
		For >3:1 Sloped Soil At Top, Add	*22.17*	
32 32 29 00-0018	LF	8" x 8", 4' High, Redwood, Wood Post Retaining Walls	777.34	127.84
		For >3:1 Sloped Soil At Top, Add	*44.34*	
32 32 29 00-0019	LF	8" x 8", 6' High, Redwood, Wood Post Retaining Walls	1,455.75	238.67
		For >3:1 Sloped Soil At Top, Add	*83.17*	
32 32 29 00-0020	LF	8" x 8", 4' High, Cedar, Wood Post Retaining Walls	739.26	127.84
		For >3:1 Sloped Soil At Top, Add	*41.10*	
32 32 29 00-0021	LF	8" x 8", 6' High, Cedar, Wood Post Retaining Walls	1,383.41	238.67
		For >3:1 Sloped Soil At Top, Add	*77.02*	
32 32 29 00-0022	LF	8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	595.53	147.48
		For >3:1 Sloped Soil At Top, Add	*25.55*	
32 32 29 00-0023	LF	8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls	1,110.69	275.41
		For >3:1 Sloped Soil At Top, Add	*47.59*	
32 32 29 00-0024	LF	8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls	552.49	119.21
		For >3:1 Sloped Soil At Top, Add	*26.70*	
32 32 29 00-0025	LF	8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls	1,024.69	221.13
		For >3:1 Sloped Soil At Top, Add	*49.51*	
32 32 29 00-0026	LF	4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	193.51	49.13
		For >3:1 Sloped Soil At Top, Add	*8.09*	
32 32 29 00-0027	LF	6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	288.37	73.74
		For >3:1 Sloped Soil At Top, Add	*11.97*	
32 32 29 00-0028	LF	8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	383.14	98.26
		For >3:1 Sloped Soil At Top, Add	*15.86*	
32 32 29 00-0029	LF	4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	148.84	27.75
		For >3:1 Sloped Soil At Top, Add	*7.93*	
32 32 29 00-0030	LF	6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	217.19	40.06
		For >3:1 Sloped Soil At Top, Add	*11.65*	
32 32 29 00-0031	LF	8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls	294.71	54.10
		For >3:1 Sloped Soil At Top, Add	*15.86*	

32 32 29 00-0032 Post And Board Retaining Walls *(32 32 29)*

Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0033	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls	98.60	14.75
		For >3:1 Sloped Soil At Top, Add	*5.87*	
32 32 29 00-0034	LF	4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls	143.67	25.22
		For >3:1 Sloped Soil At Top, Add	*7.93*	
32 32 29 00-0035	LF	6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls	194.03	31.33
		For >3:1 Sloped Soil At Top, Add	*11.16*	
32 32 29 00-0036	LF	6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls	269.60	44.42
		For >3:1 Sloped Soil At Top, Add	*15.37*	
32 32 29 00-0037	LF	6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	353.49	57.77
		For >3:1 Sloped Soil At Top, Add	*20.23*	
32 32 29 00-0038	LF	8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls	738.80	114.32
		For >3:1 Sloped Soil At Top, Add	*43.37*	
32 32 29 00-0039	LF	8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls	843.32	126.62
		For >3:1 Sloped Soil At Top, Add	*50.16*	
32 32 29 00-0040	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls	98.87	15.36
		For >3:1 Sloped Soil At Top, Add	*5.79*	
32 32 29 00-0041	LF	4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	172.60	27.32
		For >3:1 Sloped Soil At Top, Add	*10.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0042	LF	6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	169.71	26.79
		For >3:1 Sloped Soil At Top, Add	*9.87*	
32 32 29 00-0043	LF	6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls	234.95	38.48
		For >3:1 Sloped Soil At Top, Add	*13.43*	
32 32 29 00-0044	LF	6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls	360.88	61.44
		For >3:1 Sloped Soil At Top, Add	*20.23*	
32 32 29 00-0045	LF	6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar	290.47	47.21
		For >3:1 Sloped Soil At Top, Add	*16.67*	
32 32 29 00-0046	LF	8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar	765.15	117.98
		For >3:1 Sloped Soil At Top, Add	*44.98*	
32 32 29 00-0047	LF	4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated	95.81	28.36
		For >3:1 Sloped Soil At Top, Add	*3.32*	
32 32 29 00-0048	LF	4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated	140.99	40.32
		For >3:1 Sloped Soil At Top, Add	*5.13*	
32 32 29 00-0049	LF	4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat	215.30	55.32
		For >3:1 Sloped Soil At Top, Add	*8.90*	
32 32 29 00-0050	LF	6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated	390.47	93.38
		For >3:1 Sloped Soil At Top, Add	*17.31*	
32 32 29 00-0051	LF	6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated	399.99	93.38
		For >3:1 Sloped Soil At Top, Add	*18.12*	
32 32 29 00-0052	LF	6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat	369.81	89.71
		For >3:1 Sloped Soil At Top, Add	*16.18*	
32 32 29 00-0053	LF	8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated	884.79	206.38
		For >3:1 Sloped Soil At Top, Add	*40.13*	
32 32 29 00-0054	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking	95.81	28.36
		For >3:1 Sloped Soil At Top, Add	*3.32*	
32 32 29 00-0055	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking	140.99	40.32
		For >3:1 Sloped Soil At Top, Add	*5.13*	
32 32 29 00-0056	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking	215.30	55.32
		For >3:1 Sloped Soil At Top, Add	*8.90*	
32 32 29 00-0057	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking	272.80	68.85
		For >3:1 Sloped Soil At Top, Add	*11.49*	
32 32 29 00-0058	LF	6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls	390.47	93.38
		For >3:1 Sloped Soil At Top, Add	*17.31*	
32 32 29 00-0059	LF	6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls	369.81	89.71
		For >3:1 Sloped Soil At Top, Add	*16.18*	
32 32 29 00-0060	LF	8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls	884.79	206.38
		For >3:1 Sloped Soil At Top, Add	*40.13*	

32 32 29 00-0061 Wood Tie Retaining Walls, Rod Connector At 4' *(32 32 29)*

Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0062 Redwood *(32 32 29 00-0061)*

32 32 29 00-0063	LF	2' High, 6" x 6" Wood Tie Wall	151.84	30.20
		For >3:1 Sloped Soil At Top, Add	*7.77*	
32 32 29 00-0064	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	347.04	68.85
		For >3:1 Sloped Soil At Top, Add	*17.80*	
32 32 29 00-0065	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	518.72	103.23
		For >3:1 Sloped Soil At Top, Add	*26.54*	
32 32 29 00-0066	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	538.65	88.48
		For >3:1 Sloped Soil At Top, Add	*30.74*	
32 32 29 00-0067	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	809.97	132.74
		For >3:1 Sloped Soil At Top, Add	*46.28*	
32 32 29 00-0068	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	1,072.40	174.53
		For >3:1 Sloped Soil At Top, Add	*61.49*	

32 32 29 00-0069 Cedar *(32 32 29 00-0061)*

32 32 29 00-0070	LF	2' High, 6" x 6" Wood Tie Wall	148.04	30.20
		For >3:1 Sloped Soil At Top, Add	*7.44*	
32 32 29 00-0071	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	335.62	68.85
		For >3:1 Sloped Soil At Top, Add	*16.83*	
32 32 29 00-0072	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	503.49	103.23
		For >3:1 Sloped Soil At Top, Add	*25.24*	
32 32 29 00-0073	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	512.00	88.48
		For >3:1 Sloped Soil At Top, Add	*28.48*	
32 32 29 00-0074	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	771.90	132.74
		For >3:1 Sloped Soil At Top, Add	*43.04*	
32 32 29 00-0075	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	1,019.10	174.53
		For >3:1 Sloped Soil At Top, Add	*56.96*	

32 32 29 00-0076 Creosoted Wood *(32 32 29 00-0061)*

32 32 29 00-0077	LF	2' High, 6" x 8" Wood Tie Wall	145.04	40.06
		For >3:1 Sloped Soil At Top, Add	*5.52*	
32 32 29 00-0078	LF	4' High, 6" x 8" Wood Tie Wall Deadman At 6'	330.95	92.15
		For >3:1 Sloped Soil At Top, Add	*12.46*	
32 32 29 00-0079	LF	6' High, 6" x 8" Wood Tie Wall Deadman At 6'	491.73	136.39
		For >3:1 Sloped Soil At Top, Add	*18.61*	
32 32 29 00-0080	LF	4' High, 7" x 9" Wood Tie Wall Deadman At 6'	664.28	185.53
		For >3:1 Sloped Soil At Top, Add	*24.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0081	LF	6' High, 7" x 9" Wood Tie Wall Deadman At 6'	966.93	270.26
		For >3:1 Sloped Soil At Top, Add	*36.25*	
32 32 29 00-0082	LF	8' High, 7" x 9" Wood Tie Wall Deadman At 6'	1,283.94	358.31
		For >3:1 Sloped Soil At Top, Add	*48.22*	

32 32 29 00-0083 Pressure Treated Wood *(32 32 29 00-0061)*

32 32 29 00-0084	LF	2' High, 6" x 6" Wood Tie Wall	135.75	24.96
		For >3:1 Sloped Soil At Top, Add	*7.30*	
32 32 29 00-0085	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	309.14	56.55
		For >3:1 Sloped Soil At Top, Add	*16.67*	
32 32 29 00-0086	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	462.76	84.82
		For >3:1 Sloped Soil At Top, Add	*24.92*	
32 32 29 00-0087	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	472.36	102.01
		For >3:1 Sloped Soil At Top, Add	*22.81*	
32 32 29 00-0088	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	712.21	152.45
		For >3:1 Sloped Soil At Top, Add	*34.63*	
32 32 29 00-0089	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	942.21	202.71
		For >3:1 Sloped Soil At Top, Add	*45.63*	

32 32 53 Stone Retaining Walls *(32 32)*

32 32 53 00-0001 Stone Retaining Walls *(32 32 53)*

Note: Construction is either dry set or mortar set. System elements include concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.

32 32 53 00-0002 Stone Retaining Walls *(32 32 53 00-0001)*

Note: Stone at $16.00/ton.

32 32 53 00-0003	LF	$16.00/ton 3' High Stone Retaining Wall, Dry Set	384.19	175.86
		For >3:1 Sloped Soil At Top, Add	*2.75*	
32 32 53 00-0004	LF	$16.00/ton 4' High Stone Retaining Wall, Dry Set	453.89	209.22
		For >3:1 Sloped Soil At Top, Add	*3.01*	
32 32 53 00-0005	LF	$16.00/ton 6' High Stone Retaining Wall, Dry Set	597.35	277.97
		For >3:1 Sloped Soil At Top, Add	*3.52*	
32 32 53 00-0006	LF	$16.00/ton 8' High Stone Retaining Wall, Dry Set	922.76	434.61
		For >3:1 Sloped Soil At Top, Add	*4.55*	
32 32 53 00-0007	LF	$16.00/ton 10' High Stone Retaining Wall, Dry Set	1,200.35	568.52
		For >3:1 Sloped Soil At Top, Add	*5.38*	
32 32 53 00-0008	LF	$16.00/ton 12' High Stone Retaining Wall, Dry Set	1,490.56	707.97
		For >3:1 Sloped Soil At Top, Add	*6.34*	
32 32 53 00-0009	LF	$16.00/ton 3' High Stone Retaining Wall, Mortar Set	343.80	155.70
		For >3:1 Sloped Soil At Top, Add	*2.75*	
32 32 53 00-0010	LF	$16.00/ton 4' High Stone Retaining Wall, Mortar Set	403.89	184.22
		For >3:1 Sloped Soil At Top, Add	*3.01*	
32 32 53 00-0011	LF	$16.00/ton 6' High Stone Retaining Wall, Mortar Set	523.54	241.01
		For >3:1 Sloped Soil At Top, Add	*3.52*	
32 32 53 00-0012	LF	$16.00/ton 8' High Stone Retaining Wall, Mortar Set	803.96	375.23
		For >3:1 Sloped Soil At Top, Add	*4.55*	
32 32 53 00-0013	LF	$16.00/ton 10' High Stone Retaining Wall, Mortar Set	1,033.71	485.24
		For >3:1 Sloped Soil At Top, Add	*5.38*	
32 32 53 00-0014	LF	$16.00/ton 12' High Stone Retaining Wall, Mortar Set	1,285.01	605.23
		For >3:1 Sloped Soil At Top, Add	*6.34*	

32 32 53 00-0015 Stone Retaining Walls *(32 32 53 00-0001)*

Note: Stone at $32.00/ton.

32 32 53 00-0016	LF	$32.00/ton 3' High Stone Retaining Wall, Dry Set	393.98	175.86
		For >3:1 Sloped Soil At Top, Add	*3.59*	
32 32 53 00-0017	LF	$32.00/ton 4' High Stone Retaining Wall, Dry Set	467.45	209.22
		For >3:1 Sloped Soil At Top, Add	*4.16*	
32 32 53 00-0018	LF	$32.00/ton 6' High Stone Retaining Wall, Dry Set	616.93	277.97
		For >3:1 Sloped Soil At Top, Add	*5.19*	
32 32 53 00-0019	LF	$32.00/ton 8' High Stone Retaining Wall, Dry Set	951.39	434.61
		For >3:1 Sloped Soil At Top, Add	*6.98*	
32 32 53 00-0020	LF	$32.00/ton 10' High Stone Retaining Wall, Dry Set	1,239.53	568.52
		For >3:1 Sloped Soil At Top, Add	*8.71*	
32 32 53 00-0021	LF	$32.00/ton 12' High Stone Retaining Wall, Dry Set	1,540.29	707.97
		For >3:1 Sloped Soil At Top, Add	*10.57*	
32 32 53 00-0022	LF	$32.00/ton 3' High Stone Retaining Wall, Mortar Set	353.59	155.70
		For >3:1 Sloped Soil At Top, Add	*3.59*	
32 32 53 00-0023	LF	$32.00/ton 4' High Stone Retaining Wall, Mortar Set	417.45	184.22
		For >3:1 Sloped Soil At Top, Add	*4.16*	
32 32 53 00-0024	LF	$32.00/ton 6' High Stone Retaining Wall, Mortar Set	543.12	241.01
		For >3:1 Sloped Soil At Top, Add	*5.19*	
32 32 53 00-0025	LF	$32.00/ton 8' High Stone Retaining Wall, Mortar Set	832.59	375.23
		For >3:1 Sloped Soil At Top, Add	*6.98*	
32 32 53 00-0026	LF	$32.00/ton 10' High Stone Retaining Wall, Mortar Set	1,072.89	485.24
		For >3:1 Sloped Soil At Top, Add	*8.71*	
32 32 53 00-0027	LF	$32.00/ton 12' High Stone Retaining Wall, Mortar Set	1,334.74	605.23
		For >3:1 Sloped Soil At Top, Add	*10.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0028		**Stone Retaining Walls** *(32 32 53 00-0001)* Note: Stone at $48.00/ton.		
32 32 53 00-0029	LF	$48.00/ton 3' High Stone Retaining Wall, Dry Set	404.53	175.86
		For >3:1 Sloped Soil At Top, Add	*4.48*	
32 32 53 00-0030	LF	$48.00/ton 4' High Stone Retaining Wall, Dry Set	480.86	209.22
		For >3:1 Sloped Soil At Top, Add	*5.30*	
32 32 53 00-0031	LF	$48.00/ton 6' High Stone Retaining Wall, Dry Set	635.77	277.97
		For >3:1 Sloped Soil At Top, Add	*6.79*	
32 32 53 00-0032	LF	$48.00/ton 8' High Stone Retaining Wall, Dry Set	980.02	434.61
		For >3:1 Sloped Soil At Top, Add	*9.41*	
32 32 53 00-0033	LF	$48.00/ton 10' High Stone Retaining Wall, Dry Set	1,278.71	568.52
		For >3:1 Sloped Soil At Top, Add	*12.04*	
32 32 53 00-0034	LF	$48.00/ton 12' High Stone Retaining Wall, Dry Set	1,590.76	707.97
		For >3:1 Sloped Soil At Top, Add	*14.86*	
32 32 53 00-0035	LF	$48.00/ton 3' High Stone Retaining Wall, Mortar Set	364.14	155.70
		For >3:1 Sloped Soil At Top, Add	*4.48*	
32 32 53 00-0036	LF	$48.00/ton 4' High Stone Retaining Wall, Mortar Set	431.01	184.22
		For >3:1 Sloped Soil At Top, Add	*5.32*	
32 32 53 00-0037	LF	$48.00/ton 6' High Stone Retaining Wall, Mortar Set	561.96	241.01
		For >3:1 Sloped Soil At Top, Add	*6.79*	
32 32 53 00-0038	LF	$48.00/ton 8' High Stone Retaining Wall, Mortar Set	861.22	375.23
		For >3:1 Sloped Soil At Top, Add	*9.41*	
32 32 53 00-0039	LF	$48.00/ton 10' High Stone Retaining Wall, Mortar Set	1,112.07	485.24
		For >3:1 Sloped Soil At Top, Add	*12.04*	
32 32 53 00-0040	LF	$48.00/ton 12' High Stone Retaining Wall, Mortar Set	1,385.21	605.23
		For >3:1 Sloped Soil At Top, Add	*14.86*	
32 32 53 00-0041		**Stone Retaining Walls** *(32 32 53 00-0001)* Note: Stone at $64.00/ton.		
32 32 53 00-0042	LF	$64.00/ton 3' High Stone Retaining Wall, Dry Set	415.07	175.86
		For >3:1 Sloped Soil At Top, Add	*5.38*	
32 32 53 00-0043	LF	$64.00/ton 4' High Stone Retaining Wall, Dry Set	479.50	209.22
		For >3:1 Sloped Soil At Top, Add	*5.19*	
32 32 53 00-0044	LF	$64.00/ton 6' High Stone Retaining Wall, Dry Set	656.11	277.97
		For >3:1 Sloped Soil At Top, Add	*8.52*	
32 32 53 00-0045	LF	$64.00/ton 8' High Stone Retaining Wall, Dry Set	1,010.15	434.61
		For >3:1 Sloped Soil At Top, Add	*11.97*	
32 32 53 00-0046	LF	$64.00/ton 10' High Stone Retaining Wall, Dry Set	1,319.39	568.52
		For >3:1 Sloped Soil At Top, Add	*15.50*	
32 32 53 00-0047	LF	$64.00/ton 12' High Stone Retaining Wall, Dry Set	1,641.99	707.97
		For >3:1 Sloped Soil At Top, Add	*19.21*	
32 32 53 00-0048	LF	$64.00/ton 3' High Stone Retaining Wall, Mortar Set	374.68	155.70
		For >3:1 Sloped Soil At Top, Add	*5.38*	
32 32 53 00-0049	LF	$64.00/ton 4' High Stone Retaining Wall, Mortar Set	444.57	184.22
		For >3:1 Sloped Soil At Top, Add	*6.47*	
32 32 53 00-0050	LF	$64.00/ton 6' High Stone Retaining Wall, Mortar Set	582.30	241.01
		For >3:1 Sloped Soil At Top, Add	*8.52*	
32 32 53 00-0051	LF	$64.00/ton 8' High Stone Retaining Wall, Mortar Set	891.35	375.23
		For >3:1 Sloped Soil At Top, Add	*11.97*	
32 32 53 00-0052	LF	$64.00/ton 10' High Stone Retaining Wall, Mortar Set	1,152.75	485.24
		For >3:1 Sloped Soil At Top, Add	*15.50*	
32 32 53 00-0053	LF	$64.00/ton 12' High Stone Retaining Wall, Mortar Set	1,436.44	605.23
		For >3:1 Sloped Soil At Top, Add	*19.21*	

32 33 Site Furnishings *(32 30)*

32 33 13 Site Bicycle Racks *(32 33)*

32 33 13 00-0001 Bicycle Organizer And Rack *(32 33 13)*

32 33 13 00-0002 Vertical Style Bike Racks Single/Double Sided, Galvanized *(32 33 13 00-0001)*

32 33 13 00-0003 Double Sided *(32 33 13 00-0002)*

32 33 13 00-0004	EA	5' Galvanized Steel Double Sided Bike Rack, 9 Bikes	662.79	115.45
32 33 13 00-0005	EA	10' Galvanized Steel Double Sided Bike Rack, 18 Bikes	1,000.06	189.67
32 33 13 00-0006	EA	20' Galvanized Steel Double Sided Bike Rack, 36 Bikes	1,721.91	288.63

32 33 13 00-0007 Single Sided *(32 33 13 00-0002)*

32 33 13 00-0008	EA	5' Galvanized Steel Single Sided Bike Rack, 5 Bikes	580.28	103.08
32 33 13 00-0009	EA	10' Galvanized Steel Single Sided Bike Rack, 9 Bikes	821.19	171.53
32 33 13 00-0010	EA	20' Galvanized Steel Single Sided Bike Rack, 18 Bikes	1,406.76	257.70

32 33 13 00-0011 Anchor Set For Vertical Style Bike Rack *(32 33 13 00-0002)*

32 33 13 00-0012	PR	Anchor Set For Vertical Style Bike Rack Note: Anchoring frame to ground.	102.27	

32 33 13 00-0013 Bike Racks Ground Loop *(32 33 13 00-0001)*
Note: In-ground mount.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 13 00-0014	EA	83" Ground Loop Bike Rack, Surface Or Wall Mounted, 12 Bikes	880.05	202.29

32 33 13 00-0015 Serpentine Bike Racks *(32 33 13 00-0001)*

Note: In-ground mount.

32 33 13 00-0016 Galvanized, 36" High, 2-3/8" OD Tubing *(32 33 13 00-0015)*

32 33 13 00-0017	EA	1' x 3' High Serpentine (M Style) Bike Rack, 3 Bikes, Galvanized	487.01	123.70
32 33 13 00-0018	EA	3' x 3' High Serpentine (M Style) Bike Rack, 5 Bikes, Galvanized	661.49	134.00
32 33 13 00-0019	EA	5' x 3' High Serpentine (M Style) Bike Rack, 7 Bikes, Galvanized	835.99	144.32
32 33 13 00-0020	EA	7' x 3' High Serpentine (M Style) Bike Rack, 9 Bikes, Galvanized	1,032.46	154.62
32 33 13 00-0021	EA	9' x 3' High Serpentine (M Style) Bike Rack, 11 Bikes, Galvanized	1,228.94	164.93
32 33 13 00-0022	EA	11' x 3' High Serpentine (M Style) Bike Rack, 13 Bikes, Galvanized	1,337.49	175.24

32 33 13 00-0023 Galvanized, 42" High, 2-3/8" OD Tubing *(32 33 13 00-0015)*

32 33 13 00-0024	EA	1' x 42" High Serpentine Bike Rack, 3 Bikes, Galvanized	551.46	123.70
32 33 13 00-0025	EA	3' x 42" High Serpentine Bike Rack, 5 Bikes, Galvanized	707.96	134.00
32 33 13 00-0026	EA	5' x 42" High Serpentine Bike Rack, 7 Bikes, Galvanized	864.47	144.32
32 33 13 00-0027	EA	7' x 42" High Serpentine Bike Rack, 9 Bikes, Galvanized	1,003.98	154.62
32 33 13 00-0028	EA	9' x 42" High Serpentine Bike Rack, 11 Bikes, Galvanized	1,160.50	164.93
32 33 13 00-0029	EA	11' x 42" High Serpentine Bike Rack, 13 Bikes, Galvanized	1,350.98	175.24

32 33 13 00-0030 Powder Coated, 36" High, 2-3/8" OD Tubing *(32 33 13 00-0015)*

32 33 13 00-0031	EA	1' x 3' High Serpentine (M Style) Bike Rack, 3 Bikes, Powder Coated	487.01	123.70
32 33 13 00-0032	EA	3' x 3' High Serpentine (M Style) Bike Rack, 5 Bikes, Powder Coated	661.49	134.00
32 33 13 00-0033	EA	5' x 3' High Serpentine (M Style) Bike Rack, 7 Bikes, Powder Coated	835.99	144.32
32 33 13 00-0034	EA	7' x 3' High Serpentine (M Style) Bike Rack, 9 Bikes, Powder Coated	1,032.46	154.62
32 33 13 00-0035	EA	9' x 3' High Serpentine (M Style) Bike Rack, 11 Bikes, Powder Coated	1,228.94	164.93
32 33 13 00-0036	EA	11' x 3' High Serpentine (M Style) Bike Rack, 13 Bikes, Powder Coated	1,337.49	175.24

32 33 13 00-0037 Powder Coated, 42" High, 2-3/8" OD Tubing *(32 33 13 00-0015)*

32 33 13 00-0038	EA	1' x 42" High Serpentine Bike Rack, 3 Bikes, Powder Coated	568.44	123.70
32 33 13 00-0039	EA	3' x 42" High Serpentine Bike Rack, 5 Bikes, Powder Coated	741.93	134.00
32 33 13 00-0040	EA	5' x 42" High Serpentine Bike Rack, 7 Bikes, Powder Coated	898.44	144.32
32 33 13 00-0041	EA	7' x 42" High Serpentine Bike Rack, 9 Bikes, Powder Coated	1,088.92	154.62
32 33 13 00-0042	EA	9' x 42" High Serpentine Bike Rack, 11 Bikes, Powder Coated	1,245.43	164.93
32 33 13 00-0043	EA	11' x 42" High Serpentine Bike Rack, 13 Bikes, Powder Coated	1,452.90	175.24

32 33 13 00-0044 Stainless Steel, 36" High, 2-3/8" OD Tubing *(32 33 13 00-0015)*

32 33 13 00-0045	EA	1' x 36" High Serpentine Bike Rack, 3 Bikes, Stainless Steel	920.04	123.70
32 33 13 00-0046	EA	3' x 36" High Serpentine Bike Rack, 5 Bikes, Stainless Steel	1,372.61	134.00
32 33 13 00-0047	EA	5' x 36" High Serpentine Bike Rack, 7 Bikes, Stainless Steel	1,825.20	144.32
32 33 13 00-0048	EA	7' x 36" High Serpentine Bike Rack, 9 Bikes, Stainless Steel	2,339.49	154.62
32 33 13 00-0049	EA	9' x 36" High Serpentine Bike Rack, 11 Bikes, Stainless Steel	2,853.78	164.93
32 33 13 00-0050	EA	11' x 36" High Serpentine Bike Rack, 13 Bikes, Stainless Steel	3,121.24	175.24

32 33 13 00-0051 Stainless Steel, 42" High, 2-3/8" OD Tubing *(32 33 13 00-0015)*

32 33 13 00-0052	EA	1' x 42" High Serpentine Bike Rack, 3 Bikes, Stainless Steel	721.32	123.70
32 33 13 00-0053	EA	3' x 42" High Serpentine Bike Rack, 5 Bikes, Stainless Steel	1,591.25	134.00
32 33 13 00-0054	EA	5' x 42" High Serpentine Bike Rack, 7 Bikes, Stainless Steel	2,087.49	144.32
32 33 13 00-0055	EA	7' x 42" High Serpentine Bike Rack, 9 Bikes, Stainless Steel	2,549.75	154.62
32 33 13 00-0056	EA	9' x 42" High Serpentine Bike Rack, 11 Bikes, Stainless Steel	3,029.00	164.93
32 33 13 00-0057	EA	11' x 42" High Serpentine Bike Rack, 13 Bikes, Stainless Steel	3,525.24	175.24

32 33 13 00-0058 Bike Racks Bollards/Bicycle Posts *(32 33 13 00-0001)*

Note: In-ground mount.

32 33 13 00-0059	EA	43" Overall Height, 4-1/2" Outside Diameter Bollard/Bicycle Post, 2 Loop Galvanized Steel Bollard (Belson BOL450-2R-IG-G)	460.05	92.78

32 33 23 Site Trash and Litter Receptacles *(32 33)*

32 33 23 00-0001 Steel Trash Containment *(32 33 23)*

32 33 23 00-0002 Steel Frame Surrounded With Kiln-Dried Wood *(32 33 23 00-0001)*

32 33 23 00-0003	EA	13" x 13" x 30" Ash Receptacle Steel Frame, Kiln Dried Wood	379.94	49.22
32 33 23 00-0004	EA	24" x 24" x 30" High Open Top Trash Container Steel Frame, Kiln Dried Wood	364.03	49.22
32 33 23 00-0005	EA	21" x 21" x 31" High Flat Top Trash Container Steel Frame, Kiln Dried Wood	364.03	49.22
32 33 23 00-0006	EA	24" x 24" x 31" High, Flat Top Trash Container Steel Frame, Kiln Dried Wood	346.12	49.22
32 33 23 00-0007	EA	18" x 18" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	379.94	49.22
32 33 23 00-0008	EA	23" x 23" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	346.12	49.22
32 33 23 00-0009	EA	24" x 24" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	463.50	49.22

32 33 23 00-0010 Square Steel Frames Surrounded With Flat Steel *(32 33 23 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0011	EA	26" Diameter x 34" High Open Top Trash Square Container Steel Frame, Flat Steel Surround	663.70	49.22
32 33 23 00-0012	EA	26" Diameter x 34" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround	714.26	49.22
32 33 23 00-0013	EA	26" Diameter x 39" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround	714.26	49.22

32 33 23 00-0014 Round Steel Pipe And Flat Steel Frames *(32 33 23 00-0001)*

Note: Surrounded with kiln-dried wood.

32 33 23 00-0015	EA	21" Diameter x 32" High Open Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood	967.04	49.22
32 33 23 00-0016	EA	21" Diameter x 32" High Flat Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood	1,039.27	49.22
32 33 23 00-0017	EA	21" Diameter x 39" High Dome Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood	1,192.74	49.22
32 33 23 00-0018	EA	21" Diameter x 40" High HPR Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood	1,084.41	49.22

32 33 23 00-0019 Round Steel Pipe Surrounded With Perforated *(32 33 23 00-0001)*

32 33 23 00-0020	EA	21" Diameter x 32" High Open Top Trash Container Perforated Round Steel Pipe	867.74	49.22
32 33 23 00-0021	EA	21" Diameter x 32" High Flat Top Trash Container Perforated Round Steel Pipe	939.96	49.22
32 33 23 00-0022	EA	21" Diameter x 39" High Dome Top Trash Container Perforated Round Steel Pipe	1,093.44	49.22
32 33 23 00-0023	EA	21" Diameter x 40" High HPR Top Trash Container Perforated Round Steel Pipe	994.13	49.22

32 33 23 00-0024 Round Steel Pipe Frames Surrounded With Welded Wire *(32 33 23 00-0001)*

32 33 23 00-0025	EA	21" Diameter x 32" High Flat Top Trash Container Steel Pipe Frame, Welded Wire Surround	696.20	49.22
32 33 23 00-0026	EA	21" Diameter x 32" High Open Top Trash Steel Container Pipe Frame, Welded Wire Surround	768.43	49.22
32 33 23 00-0027	EA	21" Diameter x 39" High Dome Top Trash Steel Container Pipe Frame, Welded Wire Surround	921.90	49.22
32 33 23 00-0028	EA	21" Diameter x 40" High HPR Top Trash Container Steel Pipe Frame, Welded Wire Surround	822.60	49.22

32 33 23 00-0029 Litter Baskets *(32 33 23)*

32 33 23 00-0030 Round Wire Litter Baskets *(32 33 23 00-0029)*

32 33 23 00-0031	EA	1.33' Diameter x 1.83' High Round Wire Litter Basket	119.78	5.00
32 33 23 00-0032	EA	1.5' Diameter x 1.83' High Round Wire Litter Basket	150.67	5.00
32 33 23 00-0033	EA	1.75' Diameter x 2.33' High Round Wire Litter Basket	203.09	5.00
32 33 23 00-0034	EA	1.83' Diameter x 2.83' High Round Wire Litter Basket	232.68	5.00

32 33 23 00-0035 Trash Can/Wire Basket Holder *(32 33 23 00-0029)*

32 33 23 00-0036	EA	Steel Post, Single Holder	185.24	40.19
32 33 23 00-0037	EA	Steel Post, Double Holder	244.37	40.19
32 33 23 00-0038	EA	Redwood Post, Single Holder	204.21	40.19
32 33 23 00-0039	EA	Redwood Post, Double Holder	249.80	40.19

32 33 23 00-0040 Litter Receptacles, Freestanding *(32 33 23 00-0029)*

Note: Includes 1-1/2" outside diameter steel leg supports. Wall mounted, includes 3/8" x 3" steel wall plates. Surface mounted, includes 2-1/2" outside diameter steel tube with floor flange, embedded to include 2-1/2" outside diameter steel tube.

32 33 23 00-0041	EA	16" Diameter x 28" High Litter Receptacle, Freestanding Or Embedded	956.15	20.51
		For Powder Coated Sand Pan, Add	*50.00*	
		For Orange Peel Lid, Add	*25.00*	
		For Polished Granite Lid, Add	*50.00*	
32 33 23 00-0042	EA	16" Diameter x 32" High Litter Receptacle, Freestanding Or Embedded	1,005.88	20.51
		For Powder Coated Sand Pan, Add	*50.00*	
		For Orange Peel Lid, Add	*25.00*	
		For Polished Granite Lid, Add	*50.00*	
32 33 23 00-0043	EA	20" Diameter x 36" High Litter Receptacle, Freestanding Or Embedded	1,175.60	30.75
		For Powder Coated Sand Pan, Add	*50.00*	
		For Orange Peel Lid, Add	*25.00*	
		For Polished Granite Lid, Add	*50.00*	
32 33 23 00-0044	EA	20" Diameter x 40" High Litter Receptacle, Freestanding Embedded	1,225.34	30.75
		For Powder Coated Sand Pan, Add	*50.00*	
		For Orange Peel Lid, Add	*25.00*	
		For Polished Granite Lid, Add	*50.00*	
32 33 23 00-0045	EA	16" Diameter x 28" High Litter Receptacle, Pole Mount With Pole	1,275.07	30.75
		For Powder Coated Sand Pan, Add	*50.00*	
		For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	*22.50*	
		For Orange Peel Lid, Add	*25.00*	
		For Polished Granite Lid, Add	*50.00*	
32 33 23 00-0046	EA	16" Diameter x 32" High Litter Receptacle, Pole Mount With Pole	1,324.81	30.75
		For Powder Coated Sand Pan, Add	*50.00*	
		For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	*22.50*	
		For Orange Peel Lid, Add	*25.00*	
		For Polished Granite Lid, Add	*50.00*	
32 33 23 00-0047	EA	16" Diameter x 28" High Litter Receptacle, Wall Mount	1,057.98	26.66
		For Powder Coated Sand Pan, Add	*50.00*	
		For Orange Peel Lid, Add	*25.00*	
		For Polished Granite Lid, Add	*50.00*	
		For 1-1/2" x 6" Diameter Metal Cover Plate , Add	*20.00*	
32 33 23 00-0048	EA	16" Diameter x 32" High Litter Receptacle, Wall Mount	1,107.72	26.66
		For Powder Coated Sand Pan, Add	*50.00*	
		For Orange Peel Lid, Add	*25.00*	
		For Polished Granite Lid, Add	*50.00*	
		For 1-1/2" x 6" Diameter Metal Cover Plate , Add	*20.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0049		**Ash Receptacles** *(32 33 23)*		
32 33 23 00-0050	EA	12" Diameter x 21" High Ash Receptacle, Freestanding Or Embedded	545.34	20.51
		For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	*22.50*	
		For Sand Pan, Add	*110.00*	
		For Bowl And Funnel, Add	*120.00*	
32 33 23 00-0051	EA	18" Square Concrete Exposed Aggregate x 36" High Ash Receptacles With 3-1/2" ID iron Pipe With Cap Square Concrete With Steel Liner	232.69	20.51
32 33 23 00-0052		**Trash Receptacles** *(32 33 23)*		
32 33 23 00-0053	EA	Outdoor Covered Steel Receptacle With Liner	787.05	20.51
32 33 23 00-0054	EA	Driftwood And Sable Receptacle, 35 Gallon With Liner And Frame	850.84	20.51
32 33 23 00-0055	EA	24" x 24" Square Trash Containment With Exposed Aggregate Finish	588.26	20.51
32 33 23 00-0056	EA	30" x 30" Square Trash Containment With Exposed Aggregate Finish	613.83	22.55
32 33 23 00-0057	EA	36" x 36" Square Trash Containment With Exposed Aggregate Finish	660.84	24.61
32 33 23 00-0058	EA	32 Gallon, Open Round Trash Receptacle, Recycled Plastic Lumber	248.53	16.40
32 33 23 00-0059	EA	32 Gallon, Round Trash Receptacle With Liner And Lid, Recycled Plastic Lumber	293.48	16.40
32 33 23 00-0060	EA	24" x 24" Square 18" High Trash Receptacle, Fiberglass	316.96	20.51
32 33 23 00-0061		**Trash Containers (Dumpsters)** *(32 33 23)*		
32 33 23 00-0062	EA	1 CY Straight Side Trash Dumpster	192.43	
32 33 23 00-0063	EA	1.5 CY Straight Side Trash Dumpster	288.65	
32 33 23 00-0064	EA	2 CY Straight Side Trash Dumpster	384.87	
32 33 23 00-0065	EA	2 CY Sloped Side Trash Dumpster	384.87	
32 33 23 00-0066	EA	3 CY Sloped Side Trash Dumpster	577.30	
32 33 23 00-0067	EA	4 CY Sloped Side Trash Dumpster	769.74	
32 33 23 00-0068	EA	6 CY Sloped Side Trash Dumpster	1,154.61	
32 33 23 00-0069	EA	8 CY Sloped Side Trash Dumpster	1,539.48	
32 33 33		**Site Manufactured Planters** *(32 33)*		
32 33 33 00-0001		**Precast Concrete Planters** *(32 33 33)*		
32 33 33 00-0002		**Circular Precast Concrete Planters** *(32 33 33 00-0001)*		
32 33 33 00-0003	EA	24" Diameter, 17" Height, Circular Precast Concrete Planter	534.31	24.45
32 33 33 00-0004	EA	24" Diameter, 24" Height, Circular Precast Concrete Planter	599.27	29.35
32 33 33 00-0005	EA	24" Diameter, 33" Height, Circular Precast Concrete Planter	654.46	29.35
32 33 33 00-0006	EA	30" Diameter, 17" Height, Circular Precast Concrete Planter	711.33	34.24
32 33 33 00-0007	EA	30" Diameter, 30" Height, Circular Precast Concrete Planter	862.39	44.03
32 33 33 00-0008	EA	36" Diameter, 24" Height, Circular Precast Concrete Planter	937.07	44.03
32 33 33 00-0009	EA	36" Diameter, 30" Height, Circular Precast Concrete Planter	1,055.61	48.92
32 33 33 00-0010	EA	48" Diameter, 17" Height, Circular Precast Concrete Planter	1,114.06	48.92
32 33 33 00-0011	EA	48" Diameter, 24" Height, Circular Precast Concrete Planter	1,244.03	61.15
32 33 33 00-0012	EA	48" Diameter, 30" Height, Circular Precast Concrete Planter	1,323.28	65.06
32 33 33 00-0013	EA	48" Diameter, 36" Height, Circular Precast Concrete Planter	1,378.83	68.48
32 33 33 00-0014	EA	60" Diameter, 17" Height, Circular Precast Concrete Planter	1,251.59	61.15
32 33 33 00-0015	EA	60" Diameter, 24" Height, Circular Precast Concrete Planter	1,377.21	68.48
32 33 33 00-0016	EA	60" Diameter, 36" Height, Circular Precast Concrete Planter	1,758.75	73.37
32 33 33 00-0017	EA	72" Diameter, 36" Height, Circular Precast Concrete Planter	2,281.64	92.94
32 33 33 00-0018	EA	84" Diameter, 36" Height, Circular Precast Concrete Planter	2,646.94	97.83
32 33 33 00-0019		**Square Precast Concrete Planters** *(32 33 33 00-0001)*		
32 33 33 00-0020	EA	36" Square, 30" Height, Square Precast Concrete Planter	1,082.85	63.59
32 33 33 00-0021	EA	42" Square, 30" Height, Square Precast Concrete Planter	1,238.02	68.48
32 33 33 00-0022	EA	60" Square, 36" Height, Square Precast Concrete Planter	1,943.85	78.27
32 33 33 00-0023	EA	72" Square, 36" Height, Square Precast Concrete Planter	2,073.77	83.16
32 33 33 00-0024		**Rectangular Precast Concrete Planters** *(32 33 33 00-0001)*		
32 33 33 00-0025	EA	33" x 18", 20" Height, Rectangular Precast Concrete Planter	623.62	29.35
32 33 33 00-0026	EA	48" x 18", 20" Height, Rectangular Precast Concrete Planter	735.77	44.03
32 33 33 00-0027	EA	60" x 18", 20" Height, Rectangular Precast Concrete Planter	852.69	48.92
32 33 33 00-0028	EA	72" x 18", 20" Height, Rectangular Precast Concrete Planter	972.93	61.15
32 33 33 00-0029		**Fiberglass Planters** *(32 33 33)*		
32 33 33 00-0030		**Circular Fiberglass Planters** *(32 33 33 00-0029)*		
32 33 33 00-0031	EA	36" Diameter, 27" High, Circular Fiberglass Planter	1,301.14	24.45
32 33 33 00-0032	EA	60" Diameter, 39" High, Circular Fiberglass Planter	2,164.15	24.45
32 33 33 00-0033	EA	36" Diameter, 24" High, Circular Fiberglass Planter	868.09	24.45
32 33 33 00-0034	EA	60" Diameter, 24" High, Circular Fiberglass Planter	1,709.20	24.45
32 33 33 00-0035		**Tapered Circular Fiberglass Planters** *(32 33 33 00-0029)*		
32 33 33 00-0036	EA	24" Diameter, 20" High, Tapered Circular Fiberglass Planter	507.38	24.45

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 33 00-0037	EA	30" Diameter, 25" High, Tapered Circular Fiberglass Planter	743.01	24.45
32 33 33 00-0038	EA	36" Diameter, 30" High, Tapered Circular Fiberglass Planter	1,323.04	24.45
32 33 33 00-0039	EA	40" Diameter, 36" High, Tapered Circular Fiberglass Planter	1,846.78	24.45
32 33 33 00-0040		**Square Fiberglass Planters** *(32 33 33 00-0029)*		
32 33 33 00-0041	EA	24" Square, 21" High, Square Fiberglass Planter	665.71	24.45
32 33 33 00-0042	EA	24" Square, 24" High, Square Fiberglass Planter	680.48	24.45
32 33 33 00-0043	EA	30" Square, 12" High, Square Fiberglass Planter	688.29	24.45
32 33 33 00-0044	EA	30" Square, 21" High, Square Fiberglass Planter	780.54	24.45
32 33 33 00-0045	EA	30" Square, 24" High, Square Fiberglass Planter	847.76	24.45
32 33 33 00-0046		**Rectangular Fiberglass Planters** *(32 33 33 00-0029)*		
32 33 33 00-0047	EA	48" x 12", 12" High, Rectangular Fiberglass Planter	765.93	24.45
32 33 33 00-0048	EA	48" x 12", 21" High, Rectangular Fiberglass Planter	821.05	24.45
32 33 33 00-0049	EA	48" x 24", 12" High, Rectangular Fiberglass Planter	1,069.27	24.45
32 33 33 00-0050	EA	48" x 24", 21" High, Rectangular Fiberglass Planter	1,179.51	24.45
32 33 33 00-0051		**Timber Planters** *(32 33 33)*		
32 33 33 00-0052		**Square Timber Planters** *(32 33 33 00-0051)*		
32 33 33 00-0053	EA	14" Square, 30" High, Square Timber Planter	946.19	49.22
32 33 33 00-0054	EA	21" Square, 30" High, Square Timber Planter	946.19	49.22
32 33 33 00-0055	EA	27" Square, 30" High, Square Timber Planter	1,904.47	49.22
32 33 33 00-0056	EA	34" Square, 30" High, Square Timber Planter	1,634.53	49.22
32 33 33 00-0057	EA	41" Square, 36" High, Square Timber Planter	1,971.96	49.22
32 33 33 00-0058	EA	54" Square, 36" High, Square Timber Planter	5,265.21	49.22
32 33 33 00-0059	EA	81" Square, 36" High, Square Timber Planter	7,978.10	49.22
32 33 33 00-0060		**Rectangular Timber Planters** *(32 33 33 00-0051)*		
32 33 33 00-0061	EA	21" x 14", 30" High, Rectangular Timber Planter	932.69	49.22
32 33 33 00-0062	EA	27" x 14", 30" High, Rectangular Timber Planter	1,054.17	49.22
32 33 33 00-0063	EA	27" x 21", 30" High, Rectangular Timber Planter	1,418.58	49.22
32 33 33 00-0064	EA	34" x 21", 30" High, Rectangular Timber Planter	1,580.55	49.22
32 33 33 00-0065	EA	41" x 21", 30" High, Rectangular Timber Planter	2,066.44	49.22
32 33 33 00-0066	EA	34" x 27", 30" High, Rectangular Timber Planter	2,417.36	49.22
32 33 33 00-0067	EA	41" x 27", 30" High, Rectangular Timber Planter	2,714.29	49.22
32 33 33 00-0068	EA	54" x 27", 30" High, Rectangular Timber Planter	3,564.60	49.22
32 33 33 00-0069	EA	54" x 34", 30" High, Rectangular Timber Planter	4,036.99	49.22
32 33 33 00-0070	EA	68" x 34", 36" High, Rectangular Timber Planter	4,617.36	49.22
32 33 33 00-0071	EA	54" x 41", 36" High, Rectangular Timber Planter	4,387.91	49.22
32 33 33 00-0072	EA	68" x 41", 36" High, Rectangular Timber Planter	4,981.78	49.22
32 33 33 00-0073	EA	81" x 41", 36" High, Rectangular Timber Planter	5,589.14	49.22
32 33 43		**Site Seating and Tables** *(32 33)*		
32 33 43 13		**Site Seating** *(32 33 43)*		
32 33 43 13-0001		**Benches (Landscapeforms)** *(32 33 43 13)*		
		Note: Excludes embedding in concrete See CSI section 32 31 13 13-0001 for drilling and concrete.		
32 33 43 13-0002	EA	72" Backless Wood Or PolySite Bench (Landscapeforms Balustrade)	1,462.21	82.03
32 33 43 13-0003	EA	72" Backed Wood Or PolySite Bench (Landscapeforms Balustrade)	1,825.69	82.03
32 33 43 13-0004	EA	96" Backed Wood Bench (Landscapeforms Balustrade)	2,059.36	82.03
32 33 43 13-0005	EA	End Loop Arms For Backed Bench (Landscapeforms Balustrade)	170.83	20.51
32 33 43 13-0006	EA	72" Backless Wood Or PolySite Bench (Landscapeforms Gretchen's)	1,597.67	82.03
32 33 43 13-0007	EA	96" Backless Wood Bench (Landscapeforms Gretchen's)	1,806.50	82.03
32 33 43 13-0008	EA	72" Backed Wood Or PolySite Bench (Landscapeforms Gretchen's)	1,970.18	82.03
32 33 43 13-0009	EA	96" Backed Wood Bench (Landscapeforms Gretchen's)	2,224.17	82.03
32 33 43 13-0010	EA	72" Backed Wood Or PolySite Bench With Armrest (Landscapeforms Gretchen's)	2,252.39	82.03
32 33 43 13-0011	EA	96" Backed Wood Bench With Armrest (Landscapeforms Gretchen's)	2,506.37	82.03
32 33 43 13-0012	EA	59" Backed Wood Or Metal Rod Bench (Landscapeforms Hyde Park)	2,921.33	82.03
32 33 43 13-0013	EA	75" Backed Wood Or Metal Rod Bench (Landscapeforms Hyde Park)	3,174.41	82.03
32 33 43 13-0014	EA	42" Backless Metal Grid Bench (Landscapeforms Manistee)	829.01	61.53
32 33 43 13-0015	EA	62" Backless Metal Grid Bench (Landscapeforms Manistee)	895.61	61.53
32 33 43 13-0016	EA	72" Backless Metal Grid Bench (Landscapeforms Manistee)	969.40	71.78
32 33 43 13-0017	EA	82" Backless Metal Grid Bench (Landscapeforms Manistee)	1,129.25	71.78
32 33 43 13-0018	EA	42" Backed Metal Grid Bench (Landscapeforms Manistee)	1,036.01	71.78
32 33 43 13-0019	EA	62" Backed Metal Grid Bench (Landscapeforms Manistee)	1,102.61	71.78
32 33 43 13-0020	EA	72" Backed Metal Grid Bench (Landscapeforms Manistee)	1,189.72	82.03
32 33 43 13-0021	EA	82" Backed Metal Grid Bench (Landscapeforms Manistee)	1,362.88	82.03
32 33 43 13-0022	EA	42" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,155.89	71.78
32 33 43 13-0023	EA	62" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,243.00	82.03
32 33 43 13-0024	EA	72" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,309.60	82.03
32 33 43 13-0025	EA	82" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,482.76	82.03
32 33 43 13-0026	EA	72" Backless Solid Wood Bench (Landscapeforms Palisade)	2,353.98	82.03
32 33 43 13-0027	EA	96" Backless Solid Wood Bench (Landscapeforms Palisade)	2,703.91	82.03
32 33 43 13-0028	EA	70" Backless Perforated Metal Bench (Landscapeforms Petoskey)	1,514.14	82.03

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0029	EA	70" Dual Support Backed Perforated Metal Bench (Landscapeforms Petoskey)	1,825.69	82.03
32 33 43 13-0030	EA	70" Quad Support Backed Perforated Metal Bench (Landscapeforms Petoskey)	1,981.47	82.03
32 33 43 13-0031	EA	72" Backed Wood Bench (Landscapeforms Plainwell)	1,930.67	82.03
32 33 43 13-0032	EA	72" Backed Wood Bench With Center Arm (Landscapeforms Plainwell)	2,139.51	82.03
32 33 43 13-0033	EA	96" Backed Wood Bench (Landscapeforms Plainwell)	2,365.27	82.03
32 33 43 13-0034	EA	96" Backed Wood Bench With Center Arm (Landscapeforms Plainwell)	2,574.10	82.03
32 33 43 13-0035	EA	96" Backed Wood Bench With Two Center Arms (Landscapeforms Plainwell)	2,788.58	82.03
32 33 43 13-0036	EA	72" Backed Aluminum Bench (Landscapeforms Plainwell)	2,455.57	82.03
32 33 43 13-0037	EA	72" Backed Aluminum Bench With Center Arm (Landscapeforms Plainwell)	2,664.41	82.03
32 33 43 13-0038	EA	96" Backed Aluminum Bench (Landscapeforms Plainwell)	3,008.70	82.03
32 33 43 13-0039	EA	96" Backed Aluminum Bench With Center Arm (Landscapeforms Plainwell)	3,228.82	82.03
32 33 43 13-0040	EA	96" Backed Aluminum Bench With Two Center Arms (Landscapeforms Plainwell)	3,432.00	82.03
32 33 43 13-0041	EA	Backless Metal Grid Seats For Straight Runs (Landscapeforms Plexus)	560.28	20.51
32 33 43 13-0042	EA	Backless Metal Grid Seats For 60 Degree Radius (Landscapeforms Plexus)	752.18	20.51
32 33 43 13-0043	EA	Backless Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	752.18	20.51
32 33 43 13-0044	EA	Backed Metal Grid Seats For Straight Runs (Landscapeforms Plexus)	684.45	20.51
32 33 43 13-0045	EA	Narrow-Backed Metal Grid Seats For 60 Degree Radius (Landscapeforms Plexus)	848.13	20.51
32 33 43 13-0046	EA	Narrow-Backed Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	848.13	20.51
32 33 43 13-0047	EA	Wide-Backed Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	848.13	20.51
32 33 43 13-0048	EA	Armrest For Metal Grid Seats (Landscapeforms Plexus)	170.83	20.51
32 33 43 13-0049	EA	Backless Straight Metal Grid Seats (Landscapeforms Presidio)	786.04	20.51
32 33 43 13-0050	EA	Backless Straight Metal Grid Seats With One Arm (Landscapeforms Presidio)	870.70	20.51
32 33 43 13-0051	EA	Backless Straight Metal Grid Seats With Two Arms (Landscapeforms Presidio)	955.36	20.51
32 33 43 13-0052	EA	Backless Angled Metal Grid Seats (Landscapeforms Presidio)	949.72	20.51
32 33 43 13-0053	EA	Backless Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,034.38	20.51
32 33 43 13-0054	EA	Backless Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,119.04	20.51
32 33 43 13-0055	EA	Backed Straight Metal Grid Seats (Landscapeforms Presidio)	938.43	20.51
32 33 43 13-0056	EA	Backed Straight Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,023.09	20.51
32 33 43 13-0057	EA	Backed Straight Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,107.75	20.51
32 33 43 13-0058	EA	Narrow-Backed Angled Metal Grid Seats (Landscapeforms Presidio)	1,147.26	20.51
32 33 43 13-0059	EA	Narrow-Backed Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,231.93	20.51
32 33 43 13-0060	EA	Narrow-Backed Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,316.59	20.51
32 33 43 13-0061	EA	Wide-Backed Angled Metal Grid Seats (Landscapeforms Presidio)	1,147.26	20.51
32 33 43 13-0062	EA	Wide-Backed Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,231.93	20.51
32 33 43 13-0063	EA	Wide-Backed Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,316.59	20.51
32 33 43 13-0064	EA	48" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	1,575.09	82.03
32 33 43 13-0065	EA	72" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	1,597.67	82.03
32 33 43 13-0066	EA	96" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	1,941.96	82.03
32 33 43 13-0067	EA	48" Backless Woven Bench (Landscapeforms Scarborough)	2,353.98	82.03
32 33 43 13-0068	EA	72" Backless Woven Bench (Landscapeforms Scarborough)	2,777.29	82.03
32 33 43 13-0069	EA	96" Backless Woven Bench (Landscapeforms Scarborough)	3,178.02	82.03
32 33 43 13-0070	EA	24" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,270.31	82.03
32 33 43 13-0071	EA	48" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,687.98	82.03
32 33 43 13-0072	EA	72" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,727.49	82.03
32 33 43 13-0073	EA	72" Backed Horizontal Strap Bench With Center Arm (Landscapeforms Scarborough)	1,987.11	82.03
32 33 43 13-0074	EA	96" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	2,241.10	82.03
32 33 43 13-0075	EA	96" Backed Horizontal Strap Bench With Center Arm (Landscapeforms Scarborough)	2,506.37	82.03
32 33 43 13-0076	EA	96" Backed Horizontal Strap Bench With Two Intermediate Arms (Landscapeforms Scarborough)	2,766.00	82.03
32 33 43 13-0077	EA	24" Backed Woven Bench (Landscapeforms Scarborough)	2,241.10	82.03
32 33 43 13-0078	EA	48" Backed Woven Bench (Landscapeforms Scarborough)	2,709.56	82.03
32 33 43 13-0079	EA	72" Backed Woven Bench (Landscapeforms Scarborough)	3,166.73	82.03
32 33 43 13-0080	EA	72" Backed Woven Bench With Center Arm (Landscapeforms Scarborough)	3,432.00	82.03
32 33 43 13-0081	EA	96" Backed Woven Bench (Landscapeforms Scarborough)	3,996.41	82.03
32 33 43 13-0082	EA	96" Backed Woven Bench With Center Arm (Landscapeforms Scarborough)	4,256.04	82.03
32 33 43 13-0083	EA	96" Backed Woven Bench With Two Intermediate Arms (Landscapeforms Scarborough)	4,510.03	82.03
32 33 43 13-0084	EA	32" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,074.84	71.78
32 33 43 13-0085	EA	49" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,294.96	71.78
32 33 43 13-0086	EA	49" Backed Strap Or Perforated Bench With Divider (Landscapeforms Town Square)	1,413.48	71.78
32 33 43 13-0087	EA	70" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,654.11	82.03
32 33 43 13-0088	EA	70" Backed Strap Or Perforated Bench With Two Dividers (Landscapeforms Town Square)	1,874.23	82.03

32 33 43 13-0089 Benches (Columbia Cascade, TimberForm) *(32 33 43 13)*

32 33 43 13-0090 Wood Benches (Columbia Cascade, TimberForm) *(32 33 43 13-0089)*

Note: Includes powder coated steel frames.

32 33 43 13-0091	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-6-E)	577.71	41.02
32 33 43 13-0092	EA	94" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-8-E)	659.39	41.02
32 33 43 13-0093	EA	118" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-10-E)	839.04	41.02
32 33 43 13-0094	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-6-P)	602.23	41.02
32 33 43 13-0095	EA	94" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-8-P)	683.89	41.02
32 33 43 13-0096	EA	118" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-10-P)	871.71	41.02
32 33 43 13-0097	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-6-E)	871.71	41.02
32 33 43 13-0098	EA	94" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-8-E)	1,010.53	41.02
32 33 43 13-0099	EA	118" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-10-E)	1,296.33	41.02
32 33 43 13-0100	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-6-P)	912.54	41.02
32 33 43 13-0101	EA	94" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-8-P)	1,051.36	41.02
32 33 43 13-0102	EA	118" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-10-P)	1,353.49	41.02
32 33 43 13-0103	EA	70" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-6-E)	1,663.80	41.02
32 33 43 13-0104	EA	94" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-8-E)	1,949.60	41.02

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0105	EA	118" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-10-E)	2,545.71	41.02
32 33 43 13-0106	EA	70" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-6-P)	1,704.63	41.02
32 33 43 13-0107	EA	94" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-8-P)	1,990.43	41.02
32 33 43 13-0108	EA	118" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-10-P)	2,602.87	41.02
32 33 43 13-0109	EA	70" Length, Embedment Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-6-E)	667.56	41.02
32 33 43 13-0110	EA	94" Length, Embedment Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-8-E)	749.22	41.02
32 33 43 13-0111	EA	70" Length, Pedestal Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-6-P)	692.06	41.02
32 33 43 13-0112	EA	94" Length, Pedestal Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-8-P)	773.71	41.02
32 33 43 13-0113	EA	46" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-4-E)	1,100.35	41.02
32 33 43 13-0114	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-6-E)	1,296.33	41.02
32 33 43 13-0115	EA	46" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-4-P)	1,165.68	41.02
32 33 43 13-0116	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-6-P)	1,361.66	41.02
32 33 43 13-0117	EA	70" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-6)	711.44	61.53
32 33 43 13-0118	EA	94" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-8)	744.10	61.53
32 33 43 13-0119	EA	118" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-10)	997.24	61.53
32 33 43 13-0120	EA	46" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-4-E)	545.07	41.02
32 33 43 13-0121	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-6-E)	626.73	41.02
32 33 43 13-0122	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-8-E)	708.39	41.02
32 33 43 13-0123	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-10-E)	904.37	41.02
32 33 43 13-0124	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-12-E)	986.03	41.02
32 33 43 13-0125	EA	46" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-4-P)	553.24	41.02
32 33 43 13-0126	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-6-P)	634.89	41.02
32 33 43 13-0127	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-8-P)	716.55	41.02
32 33 43 13-0128	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-10-P)	928.87	41.02
32 33 43 13-0129	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-12-P)	1,010.53	41.02
32 33 43 13-0130	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-6-E)	920.70	41.02
32 33 43 13-0131	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-8-E)	1,059.52	41.02
32 33 43 13-0132	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-10-E)	1,361.66	41.02
32 33 43 13-0133	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-12-E)	1,500.48	41.02
32 33 43 13-0134	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-6-P)	937.03	41.02
32 33 43 13-0135	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-8-P)	1,075.85	41.02
32 33 43 13-0136	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-10-P)	1,386.16	41.02
32 33 43 13-0137	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-12-P)	1,524.98	41.02
32 33 43 13-0138	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-6-E)	920.70	41.02
32 33 43 13-0139	EA	82" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-7-E)	1,288.17	41.02
32 33 43 13-0140	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-8-E)	1,149.35	41.02
32 33 43 13-0141	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-10-E)	1,508.65	41.02
32 33 43 13-0142	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-12-E)	1,647.47	41.02
32 33 43 13-0143	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-6-P)	1,051.36	41.02
32 33 43 13-0144	EA	82" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-7-P)	1,312.66	41.02
32 33 43 13-0145	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-8-P)	1,165.68	41.02
32 33 43 13-0146	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-10-P)	1,533.14	41.02
32 33 43 13-0147	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-12-P)	1,671.96	41.02
32 33 43 13-0148	EA	70" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-6)	980.91	61.53
32 33 43 13-0149	EA	94" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-8)	1,127.90	61.53
32 33 43 13-0150	EA	118" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-10)	1,438.20	61.53
32 33 43 13-0151	EA	70" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-6)	1,070.74	61.53
32 33 43 13-0152	EA	94" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-8)	1,217.72	61.53
32 33 43 13-0153	EA	118" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-10)	1,577.02	61.53

32 33 43 13-0154 Recycled Plastic Benches (Columbia Cascade, TimberForm) *(32 33 43 13-0089)*

Note: Includes powder coated steel frames.

32 33 43 13-0155	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-6-E)	781.88	41.02
32 33 43 13-0156	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-8-E)	1,059.52	41.02
32 33 43 13-0157	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-6-P)	806.38	41.02
32 33 43 13-0158	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-8-P)	1,084.02	41.02
32 33 43 13-0159	EA	46" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-4-E)	1,214.67	41.02
32 33 43 13-0160	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-6-E)	1,418.82	41.02
32 33 43 13-0161	EA	46" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-4-P)	1,280.00	41.02
32 33 43 13-0162	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-6-P)	1,484.15	41.02
32 33 43 13-0163	EA	70" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-6)	793.10	61.53
32 33 43 13-0164	EA	94" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-8)	948.25	61.53
32 33 43 13-0165	EA	118" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-10)	1,111.57	61.53

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0166	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-6-E)	643.04	41.02
32 33 43 13-0167	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-8-E)	855.37	41.02
32 33 43 13-0168	EA	118" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-10-E)	1,018.69	41.02
32 33 43 13-0169	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-6-P)	667.56	41.02
32 33 43 13-0170	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-8-P)	879.87	41.02
32 33 43 13-0171	EA	118" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-10-P)	1,051.36	41.02
32 33 43 13-0172	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-6-E)	1,010.53	41.02
32 33 43 13-0173	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-8-E)	1,353.49	41.02
32 33 43 13-0174	EA	118" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-10-E)	1,639.30	41.02
32 33 43 13-0175	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-6-P)	1,051.36	41.02
32 33 43 13-0176	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-8-P)	1,410.65	41.02
32 33 43 13-0177	EA	118" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-10-P)	1,696.46	41.02
32 33 43 13-0178	EA	70" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-6-E)	1,949.60	41.02
32 33 43 13-0179	EA	94" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-8-E)	2,676.37	41.02
32 33 43 13-0180	EA	118" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-10-E)	2,962.17	41.02
32 33 43 13-0181	EA	70" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-6-P)	1,990.43	41.02
32 33 43 13-0182	EA	94" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-8-P)	2,733.53	41.02
32 33 43 13-0183	EA	118" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-10-P)	3,019.34	41.02
32 33 43 13-0184	EA	70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-6-E)	1,231.00	41.02
32 33 43 13-0185	EA	82" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-7-E)	1,704.63	41.02
32 33 43 13-0186	EA	94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-8-E)	1,631.13	41.02
32 33 43 13-0187	EA	118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-10-E)	1,867.94	41.02
32 33 43 13-0188	EA	142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-12-E)	2,504.88	41.02
32 33 43 13-0189	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-6-P)	1,247.34	41.02
32 33 43 13-0190	EA	82" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-7-P)	1,729.12	41.02
32 33 43 13-0191	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-8-P)	1,655.63	41.02
32 33 43 13-0192	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-10-P)	1,892.44	41.02
32 33 43 13-0193	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-12-P)	2,545.71	41.02
32 33 43 13-0194	EA	70" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-6)	1,185.06	61.53
32 33 43 13-0195	EA	94" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-8)	1,585.19	61.53
32 33 43 13-0196	EA	118" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-10)	1,952.65	61.53
32 33 43 13-0197	EA	70" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-6)	1,323.88	61.53
32 33 43 13-0198	EA	94" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-8)	1,756.67	61.53
32 33 43 13-0199	EA	118" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-10)	1,928.16	61.53
32 33 43 13-0200	EA	46" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-4-E)	577.73	41.02
32 33 43 13-0201	EA	70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-6-E)	749.22	41.02
32 33 43 13-0202	EA	94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-8-E)	1,002.36	41.02
32 33 43 13-0203	EA	118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-10-E)	1,173.84	41.02
32 33 43 13-0204	EA	142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-12-E)	1,361.66	41.02
32 33 43 13-0205	EA	46" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-4-P)	594.07	41.02
32 33 43 13-0206	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-6-P)	765.55	41.02
32 33 43 13-0207	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-8-P)	1,026.86	41.02
32 33 43 13-0208	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-10-P)	1,198.34	41.02
32 33 43 13-0209	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-12-P)	1,394.32	41.02
32 33 43 13-0210	EA	70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-6-E)	1,100.35	41.02
32 33 43 13-0211	EA	94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-8-E)	1,500.48	41.02
32 33 43 13-0212	EA	118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-10-E)	1,843.45	41.02
32 33 43 13-0213	EA	142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-12-E)	2,072.09	41.02
32 33 43 13-0214	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-6-P)	1,116.68	41.02
32 33 43 13-0215	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-8-P)	1,524.98	41.02
32 33 43 13-0216	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-10-P)	1,867.94	41.02
32 33 43 13-0217	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-12-P)	2,104.76	41.02

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 53		**Site Tables** *(32 33 43)*		
32 33 43 53-0001		Picnic Tables *(32 33 43 53)*		
32 33 43 53-0002		Wooden Picnic Tables *(32 33 43 53-0001)*		
32 33 43 53-0003	EA	6' Permanent Rectangular Redwood Table	1,758.83	61.53
32 33 43 53-0004		Portable Picnic Tables *(32 33 43 53-0001)*		
32 33 43 53-0005	EA	6' Wood Table With Aluminum Frame	863.53	41.02
32 33 43 53-0006	EA	6' Aluminum Table And Frame	1,241.20	41.02
32 33 43 53-0007	EA	8' Aluminum Table And Frame	1,482.51	51.27
32 33 43 53-0008	EA	6' Steel Table And Frame	839.09	41.02
32 33 43 53-0009	EA	8' Steel Table And Frame	963.09	51.27
32 33 43 53-0010		Concrete Picnic Tables *(32 33 43 53-0001)*		
32 33 43 53-0011	EA	72" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches (Quikcrete QLBT72PT)	1,706.70	164.07
32 33 43 53-0012	EA	96" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches (Quick Crete QLBT96PT Or QLMR96PT)	1,966.02	
		Note: Standard sealer		
32 33 43 53-0013	EA	102" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches And Handicap Access On Two Ends (Quick Crete QLMR102PTADA)	1,972.02	
		Note: Standard sealer		
32 33 43 53-0014	EA	42" Diameter, Precast Concrete, Round Food Court Table Set With Four Benches (Quick Crete QR42FC)	2,102.99	
		Note: Includes table top, four benches and mounting hardware.		
32 33 43 53-0015		Plastic Picnic Tables *(32 33 43 53-0001)*		
		Note: Manufactured from recycled plastic.		
32 33 43 53-0016		Pedestal Tables - 4' Square, 2 Seats *(32 33 43 53-0015)*		
32 33 43 53-0017	EA	3" x 4" Slats, Pedestal Table, 4' Square, 2 Seats	737.90	61.53
32 33 43 53-0018	EA	4" x 4" Slats, Pedestal Table, 4' Square, 2 Seats	803.21	61.53
32 33 43 53-0019		Pedestal Tables - 4' Square, 4 Seats *(32 33 43 53-0015)*		
32 33 43 53-0020	EA	3" x 4" Slats, Pedestal Table, 4' Square, 4 Seats	949.69	61.53
32 33 43 53-0021	EA	4" x 4" Slats, Pedestal Table, 4' Square, 4 Seats	1,037.40	61.53
32 33 43 53-0022		Recycled Plastic Tables *(32 33 43 53-0015)*		
32 33 43 53-0023	EA	6' Standard "Step-Over" Table, Recycled Plastic Lumber	1,226.48	61.53
32 33 43 53-0024	EA	6' " Walk-Through" Table, Recycled Plastic Lumber	1,030.89	61.53
32 33 43 53-0025	EA	7' Reinforced "Step-Over" Table, Recycled Plastic Lumber, ADA Ends	1,120.77	61.53
32 33 43 53-0026	EA	8' " Walk-Through" Table, Recycled Plastic Lumber, ADA Ends	1,051.74	61.53
32 33 43 53-0027	EA	8' Reinforced "Step-Over" Table, Recycled Plastic Lumber, ADA Ends	1,308.99	61.53
32 33 43 53-0028	EA	4' Youth Table, Recycled Plastic Lumber	543.37	49.22
32 33 53		**Site Grills** *(32 33)*		
32 33 53 00-0001		Picnic Grills *(32 33 53)*		
32 33 53 00-0002	EA	20" Wide x 14" Deep x 8-1/2" High Adjustable Grill	289.60	
		Note: 11 gauge with galvanized steel post.		
32 33 53 00-0003	EA	20" Wide x 14" Deep x 8-1/2" High Adjustable Grill	308.76	
		Note: 7 gauge with galvanized steel post.		
32 33 63		**Skate Board Deterrent** *(32 33)*		
32 33 63 00-0001		Skate Stoppers *(32 33 63)*		
32 33 63 00-0002	EA	Aluminum Architectural Series Pieces, Skate Stopper	46.52	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-4.67*	
		For >99 To 249, Deduct	*-5.96*	
		For >249, Deduct	*-7.25*	
32 33 63 00-0003	EA	Aluminum Fixed Angle Series Pieces, Skate Stopper	49.01	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-5.02*	
		For >99 To 249, Deduct	*-6.38*	
		For >249, Deduct	*-7.75*	
32 33 63 00-0004	EA	Aluminum Fixed Radius Series Pieces, Skate Stopper	36.26	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-3.23*	
		For >99 To 249, Deduct	*-4.22*	
		For >249, Deduct	*-5.20*	
32 33 63 00-0005	EA	Aluminum Bench Clips, Skate Stopper	30.15	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-2.38*	
		For >99 To 249, Deduct	*-3.18*	
		For >249, Deduct	*-3.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 63 00-0006	EA	Aluminum Curve Clips, Skate Stopper	32.45	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-2.70*	
		For >99 To 249, Deduct	*-3.57*	
		For >249, Deduct	*-4.44*	
32 33 63 00-0007	EA	Aluminum Hand Rail, Skate Stopper	31.27	
		Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-2.53*	
		For >99 To 249, Deduct	*-3.37*	
		For >249, Deduct	*-4.20*	
32 33 63 00-0008	EA	Aluminum 2" x 3" x 0.25" Flat Cap, Skate Stopper	29.78	
		Note: Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-2.32*	
		For >99 To 249, Deduct	*-3.11*	
		For >249, Deduct	*-3.91*	
32 33 63 00-0009	EA	Aluminum 6" Diameter x 0.25" Rumble Disc, Skate Stopper	39.05	
		Note: Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-3.62*	
		For >99 To 249, Deduct	*-4.69*	
		For >249, Deduct	*-5.76*	
32 33 63 00-0010	EA	Aluminum 4" x 17" x 0.25" Flat Strap, Skate Stopper	66.85	
		Note: Includes drilling and anchoring into suitable surface material.		
		For >59 To 99, Deduct	*-7.51*	
		For >99 To 249, Deduct	*-9.42*	
		For >249, Deduct	*-11.32*	

32 39 Manufactured Site Specialties *(32 30)*

Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0081 for concrete core drilling, 02 41 19 13-0219 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

32 39 13 Manufactured Metal Bollards *(32 39)*

32 39 13 00-0001 Metal Pipe Bollards *(32 39 13)*

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powered Coated *(32 39 13 00-0001)*

32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	44.01	11.23
		For Galvanized Steel, Add	*3.66*	
		For 304 Stainless Steel, Add	*29.09*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*113.84*	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	*82.84*	
		For Schedule 80, Add	*5.48*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*8.77*	
32 39 13 00-0004	LF	6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	56.45	11.23
		For Galvanized Steel, Add	*5.78*	
		For 304 Stainless Steel, Add	*45.89*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*113.84*	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	*82.84*	
		For Schedule 80, Add	*7.34*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*12.35*	
32 39 13 00-0005	LF	8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	78.48	14.04
		For Galvanized Steel, Add	*8.57*	
		For 304 Stainless Steel, Add	*68.05*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*150.28*	
		For Each Sleeve For Removable, Lockable Bollard, Add	*124.30*	
		For Schedule 80, Add	*10.37*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*16.51*	
32 39 13 00-0006	LF	10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	102.66	16.84
		For Galvanized Steel, Add	*11.72*	
		For 304 Stainless Steel, Add	*93.11*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*172.76*	
		For Each Sleeve For Removable, Lockable Bollard, Add	*135.54*	
		For Schedule 80, Add	*13.71*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*20.17*	
32 39 13 00-0007	LF	12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	130.50	22.46
		For Galvanized Steel, Add	*14.55*	
		For 304 Stainless Steel, Add	*115.55*	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	*238.64*	
		For Each Sleeve For Removable, Lockable Bollard, Add	*186.69*	
		For Schedule 80, Add	*17.33*	
		For Concrete Fill, Add Per LF Of Pipe Bollard	*23.53*	

32 39 23 Manufactured Concrete Bollards *(32 39)*

32 39 23 00-0001 Concrete Bollards *(32 39 23)*

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any.

32 39 23 00-0002 Concrete Bollard, Exposed Aggregate *(32 39 23 00-0001)*

32 39 23 00-0003	EA	12" x 12" x 30" High Concrete Bollard, Light Sandblast	550.92	89.82
		Note: Surface mounted with anchor bolts embedded into grout pockets.		
32 39 23 00-0004	EA	12" Diameter x 30" High Concrete Bollard, Light Sandblast	550.92	89.82
		Note: Surface mounted with anchor bolts embedded into grout pockets.		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 39 25 Manufactured Wood Bollards *(32 39)*

32 39 25 00-0001 Wood Bollards *(32 39 25)*

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.

32 39 25 00-0002 Wood Bollard, Pressure Treated Timber *(32 39 25 00-0001)*

32 39 25 00-0003	LF	4" x 4", Pressure Treated Wood Bollard	21.64	8.98
		For Each Sleeve For Removable, Lockable Bollard, Add	*82.94*	
32 39 25 00-0004	LF	6" x 6", Pressure Treated Wood Bollard	25.52	8.98
		For Each Sleeve For Removable, Lockable Bollard, Add	*82.94*	
32 39 25 00-0005	LF	8" x 8", Pressure Treated Wood Bollard	33.67	10.11
		For Each Sleeve For Removable, Lockable Bollard, Add	*125.62*	
32 39 25 00-0006	LF	10" x 10", Pressure Treated Wood Bollard	47.93	13.48
		For Each Sleeve For Removable, Lockable Bollard, Add	*139.10*	
32 39 25 00-0007	LF	12" x 12", Pressure Treated Wood Bollard	66.13	17.96
		For Each Sleeve For Removable, Lockable Bollard, Add	*192.95*	

32 39 27 Manufactured Plastic Bollards *(32 39)*

32 39 27 00-0001 Plastic Bollards *(32 39 27)*

See CSI section 32 31 13 13-0001 for augering and filling holes for bollards.

32 39 27 00-0002 Recycled Plastic Bollards *(32 39 27 00-0001)*

32 39 27 00-0003	EA	6" x 6" x 33" Surface Mounted Recycled Plastic Bollard Note: Includes anchor bolts.	246.98	44.91
32 39 27 00-0004	EA	6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard	386.89	44.91

32 39 27 00-0005 Plastic Bollard Covers *(32 39 27 00-0001)*

32 39 27 00-0006	EA	4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	62.79	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0007	EA	6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	68.11	11.66
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0008	EA	3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe	83.59	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0009	EA	3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe	83.59	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0010	EA	3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe	93.29	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0011	EA	4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe	83.59	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0012	EA	4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	84.97	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0013	EA	5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	83.59	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0014	EA	5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	84.97	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0015	EA	5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	116.86	10.60
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0016	EA	6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	85.71	11.66
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0017	EA	6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	107.89	11.66
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0018	EA	6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	122.18	11.66
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0019	EA	7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	104.46	12.73
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0020	EA	8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe	112.78	12.73
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0021	EA	8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe	112.78	12.73
		For Reflective Tape, Add	*6.60*	
32 39 27 00-0022	EA	10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe	150.23	12.73
		For Reflective Tape, Add	*6.60*	

32 39 29 Manufactured Stone Bollards *(32 39)*

32 39 29 00-0001 Stone Bollards *(32 39 29)*

32 39 29 00-0002 Granite Bollards *(32 39 29 00-0001)*

32 39 29 00-0003	EA	16" x 16" x 30" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,238.08	112.28
32 39 29 00-0004	EA	16" x 16" x 54" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,567.47	157.20
32 39 29 00-0005	EA	12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top Note: Surface mounted with anchors embedded into grout pockets.	766.33	112.28
32 39 29 00-0006	EA	12" Diameter x 18" Granite Bollard, Smooth Matt Finish Note: Flat Top, surface mounted with anchors embedded into grout pockets.	1,137.89	89.82
32 39 29 00-0007	EA	24" x 24" x 20" Granite Bollard, Octagonal Cross Section Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	1,699.93	89.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 80 Irrigation *(32)*

32 84 Planting Irrigation *(32 80)*

32 84 13 Drip Irrigation *(32 84)*

32 84 13 00-0001 Drip Emitter Irrigation Devices *(32 84 13)*

32 84 13 00-0002 Drip Emitter Irrigation Valves *(32 84 13 00-0001)*

32 84 13 00-0003	EA	1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050)	41.81	10.14
32 84 13 00-0004	EA	1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV100)	64.77	10.14
32 84 13 00-0005	EA	3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV075)	63.17	10.14
32 84 13 00-0006	EA	3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV075TBOS)	84.75	10.14

32 84 13 00-0007 Drip Emitter Irrigation Filters *(32 84 13 00-0001)*

32 84 13 00-0008	EA	3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075)	130.33	10.14
32 84 13 00-0009	EA	1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100)	131.52	10.14
32 84 13 00-0010	EA	3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX)	51.84	10.14
32 84 13 00-0011	EA	1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX)	52.79	10.14
32 84 13 00-0012	EA	1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100)	141.38	10.14
32 84 13 00-0013	EA	3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY)	66.12	10.14
32 84 13 00-0014	EA	1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY)	73.56	10.14

32 84 13 00-0015 Drip Emitter Irrigation Pressure Regulators *(32 84 13 00-0001)*

32 84 13 00-0016	EA	3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075)	50.88	10.14
32 84 13 00-0017	EA	3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075)	50.88	10.14
32 84 13 00-0018	EA	3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075)	50.88	10.14
32 84 13 00-0019	EA	1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100)	58.70	10.14

32 84 13 00-0020 Drip Emitter Irrigation Tubing *(32 84 13 00-0001)*

Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.

32 84 13 00-0021	LF	1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100)	3.75	1.42
32 84 13 00-0022	LF	1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100)	3.45	1.62
32 84 13 00-0023	LF	1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100)	2.99	1.42
		For Shallow Trenching And Backfill By Hand, Add	*5.82*	
32 84 13 00-0024	LF	1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100)	3.52	1.62
		For Shallow Trenching And Backfill By Hand, Add	*6.30*	

32 84 13 00-0025 Drip Emitter Irrigation Fittings *(32 84 13 00-0001)*

32 84 13 00-0026	EA	1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	2.67	
32 84 13 00-0027	EA	1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL)	2.70	
32 84 13 00-0028	EA	1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	2.74	
32 84 13 00-0029	EA	1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025)	2.88	
32 84 13 00-0030	EA	1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	2.65	
32 84 13 00-0031	EA	17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	2.81	
		For Compression Fitting, Add	*0.28*	
32 84 13 00-0032	EA	17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW)	2.89	
		For Compression Fitting, Add	*0.36*	
32 84 13 00-0033	EA	17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	2.94	
		For Compression Fitting, Add	*0.41*	
32 84 13 00-0034	EA	17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	2.96	
		For Compression Fitting, Add	*0.43*	
32 84 13 00-0035	EA	17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	3.13	
		For Compression Fitting, Add	*0.60*	
32 84 13 00-0036	EA	1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP)	3.32	
32 84 13 00-0037	EA	12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	1.64	

32 84 13 00-0038 Drip Emitters *(32 84 13 00-0001)*

32 84 13 00-0039	EA	0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC)	5.51	
32 84 13 00-0040	EA	5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	6.27	
32 84 13 00-0041	EA	0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056)	12.97	

32 84 13 00-0042 Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters *(32 84 13 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0043	EA	Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK)	21.44	9.12
32 84 13 00-0044	EA	Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	21.49	9.12
32 84 13 00-0045	EA	12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL)	23.58	9.12
32 84 13 00-0046	EA	24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL)	23.80	9.12
32 84 13 00-0047	EA	4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL) Note: Includes nozzle.	34.38	11.96
32 84 13 00-0048	EA	6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL) Note: Includes nozzle.	37.08	11.96
32 84 13 00-0049	EA	12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL) Note: Includes nozzle.	37.39	11.96

32 84 13 00-0050 Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) *(32 84 13 00-0001)*

Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.

32 84 13 00-0051	LF	0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	3.94	1.77

32 84 23 Underground Sprinklers *(32 84)*

32 84 23 00-0001 Sprinkler Heads *(32 84 23)*

32 84 23 00-0002 Spray Sprinkler Heads *(32 84 23 00-0001)*

Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.

32 84 23 00-0003	EA	2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P)	30.37	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0004	EA	4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P)	28.83	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0005	EA	6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)	34.51	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0006	EA	12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P)	39.27	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0007	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)	30.97	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0008	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	38.97	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0009	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	42.82	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0010	EA	4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)	33.25	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0011	EA	6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)	40.54	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0012	EA	12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)	44.14	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0013	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)	34.16	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0014	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)	45.35	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0015	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)	48.90	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0016	EA	Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	25.85	11.20
		For Rotary Nozzle, Add	*3.25*	
32 84 23 00-0017	EA	Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	29.40	11.20

32 84 23 00-0018 Gear-Drive, Rotary Sprinkler Heads *(32 84 23 00-0001)*

Note: Maximum spacing is equivalent to maximum radius.

32 84 23 00-0019 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads *(32 84 23 00-0018)*

Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.

32 84 23 00-0020	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)	41.60	11.20
		For Non-Potable Cover, Add	*2.00*	
32 84 23 00-0021	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	42.87	11.20
		For Non-Potable Cover, Add	*2.00*	

32 84 23 00-0022 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads *(32 84 23 00-0018)*

Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.

32 84 23 00-0023	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)	38.57	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	
32 84 23 00-0024	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)	52.24	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	
32 84 23 00-0025	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS)	41.10	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0026	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS)	54.26	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	
32 84 23 00-0027	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR)	42.11	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	
32 84 23 00-0028	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR)	44.14	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	
32 84 23 00-0029	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR)	57.30	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	
32 84 23 00-0030	EA	12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR)	65.40	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	
32 84 23 00-0031	EA	Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS)	43.88	11.20
		For Non-Potable Cover, Add	*2.00*	
32 84 23 00-0032	EA	Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR)	51.98	11.20
		For Non-Potable Cover, Add	*2.00*	

32 84 23 00-0033 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads *(32 84 23 00-0018)*

Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.

32 84 23 00-0034	EA	4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC)	71.23	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	
		For Stainless Steel Riser And High Speed Rotor, Add	*37.27*	

32 84 23 00-0035 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads *(32 84 23 00-0018)*

Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.

32 84 23 00-0036	EA	5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005)	100.60	11.20
		For Non-Potable Cover, Add	*2.00*	
		For Stainless Steel Riser, Add	*9.00*	

32 84 23 00-0037 Impact-Drive Sprinkler Heads *(32 84 23 00-0001)*

Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.

32 84 23 00-0038	EA	1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08)	57.05	11.20
		For Non-Potable Cover, Add	*2.00*	
32 84 23 00-0039	EA	1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08)	44.90	11.20
32 84 23 00-0040	EA	3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB)	85.39	11.20

32 84 23 00-0041 Electric Remote Control Irrigation Valves *(32 84 23)*

32 84 23 00-0042 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) *(32 84 23 00-0041)*

Note: 15 to 150 PSI.

32 84 23 00-0043	EA	3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV)	128.02	46.67
32 84 23 00-0044	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV)	128.02	46.67
32 84 23 00-0045	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS)	141.36	53.20
32 84 23 00-0046	EA	1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA)	129.03	46.67

32 84 23 00-0047 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) *(32 84 23 00-0041)*

Note: 15 to 150 PSI.

32 84 23 00-0048	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF)	129.03	46.67
32 84 23 00-0049	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS)	142.88	53.20
32 84 23 00-0050	EA	1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB)	143.89	53.20

32 84 23 00-0051 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) *(32 84 23 00-0041)*

Note: 20 to 200 PSI.

32 84 23 00-0052	EA	1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	210.05	46.67
32 84 23 00-0053	EA	1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	245.50	46.67
32 84 23 00-0054	EA	2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	291.07	46.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0055		**5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series)** *(32 84 23 00-0041)* Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D)	298.98	52.46
32 84 23 00-0057	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D)	334.43	52.46
32 84 23 00-0058	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D)	380.00	52.46
32 84 23 00-0059		**20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series)** *(32 84 23 00-0041)* Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D)	349.62	52.46
32 84 23 00-0061	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D)	385.06	52.46
32 84 23 00-0062	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D)	430.64	52.46
32 84 23 00-0063		**0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series)** *(32 84 23 00-0041)* Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B)	310.87	46.67
32 84 23 00-0065	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B)	473.83	46.67
32 84 23 00-0066	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B)	488.56	46.67
32 84 23 00-0067	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B)	1,143.57	63.01
32 84 23 00-0068		**5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series)** *(32 84 23 00-0041)* Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP)	287.99	52.46
32 84 23 00-0070	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP)	336.45	52.46
32 84 23 00-0071	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP)	389.06	52.46
32 84 23 00-0072	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP)	458.34	52.46
32 84 23 00-0073		**0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series)** *(32 84 23 00-0041)* Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS)	379.08	52.46
32 84 23 00-0075	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS)	572.43	52.46
32 84 23 00-0076	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS)	589.00	52.46
32 84 23 00-0077	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS)	1,220.60	52.46
32 84 23 00-0078		**0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series)** *(32 84 23 00-0041)* Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ)	384.52	46.67
32 84 23 00-0080	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ)	547.49	46.67
32 84 23 00-0081	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ)	562.22	46.67
32 84 23 00-0082	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ)	1,217.23	63.01
32 84 23 00-0083		**5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series)** *(32 84 23 00-0041)* Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D)	363.95	52.46
32 84 23 00-0085	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D)	412.41	52.46
32 84 23 00-0086	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D)	465.02	52.46

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0087	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D)	534.30	52.46

32 84 23 00-0088 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) *(32 84 23 00-0041)*

Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.

32 84 23 00-0089	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ)	452.74	52.46
32 84 23 00-0090	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ)	646.08	52.46
32 84 23 00-0091	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ)	662.66	52.46
32 84 23 00-0092	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ)	1,294.26	52.46

32 84 23 00-0093 Other Electric Remote Control Valves/Accessories *(32 84 23 00-0041)*

32 84 23 00-0094	EA	Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL)	113.29	

32 84 23 00-0095 Remote Control Valve Assemblies *(32 84 23 00-0041)*

Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.

32 84 23 00-0096	EA	1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	450.58	116.68
32 84 23 00-0097	EA	1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	486.03	116.68
32 84 23 00-0098	EA	2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	531.60	116.68
32 84 23 00-0099	EA	1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	501.22	116.68
32 84 23 00-0100	EA	1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	536.67	116.68
32 84 23 00-0101	EA	2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	582.24	116.68
32 84 23 00-0102	EA	1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	515.55	116.68
32 84 23 00-0103	EA	1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	616.63	116.68
32 84 23 00-0104	EA	2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	685.90	116.68

32 84 23 00-0105 Irrigation Valve Boxes *(32 84 23)*

Note: Includes lid.

32 84 23 00-0106	EA	6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND)	78.63	33.60
32 84 23 00-0107	EA	7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND)	90.59	33.60
32 84 23 00-0108	EA	10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND)	118.86	44.24
32 84 23 00-0109	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD)	191.08	64.59
32 84 23 00-0110	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH)	194.38	64.59
32 84 23 00-0111	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB)	217.97	64.59
32 84 23 00-0112	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH)	220.78	64.59
32 84 23 00-0113	EA	33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH)	355.63	64.59
32 84 23 00-0114	EA	40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH)	530.29	64.59
32 84 23 00-0115	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid	366.69	122.95
		For 12" Extension, Add	*73.42*	
32 84 23 00-0116	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid	538.27	122.95
		For 12" Extension, Add	*73.42*	
32 84 23 00-0117	EA	12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12)	156.05	56.01
32 84 23 00-0118	EA	15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12)	219.45	64.59
32 84 23 00-0119	EA	10" Round Irrigation Valve Box With Lid (Carson 910-10)	122.29	44.24

32 84 23 00-0120 Irrigation Controllers *(32 84 23)*

See CSI section 27 15 13 00-0256 for low voltage wiring.

32 84 23 00-0121 Irrigation Controllers *(32 84 23 00-0120)*

32 84 23 00-0122 Irrigation Controllers (Rain Bird®) *(32 84 23 00-0121)*

32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) *(32 84 23 00-0122)*

32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) *(32 84 23 00-0123)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0125		**Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series)** *(32 84 23 00-0124)*		
32 84 23 00-0126	EA	4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	284.77	32.82
32 84 23 00-0127	EA	7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	398.73	32.82
32 84 23 00-0128	EA	10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	512.70	32.82
32 84 23 00-0129	EA	13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	626.67	32.82
32 84 23 00-0130	EA	16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	707.82	32.82
32 84 23 00-0131	EA	19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	825.90	32.82
32 84 23 00-0132	EA	22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	943.97	32.82
32 84 23 00-0133		**Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series)** *(32 84 23 00-0124)*		
32 84 23 00-0134	EA	4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	325.15	32.82
32 84 23 00-0135	EA	7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	439.12	32.82
32 84 23 00-0136	EA	10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	553.09	32.82
32 84 23 00-0137	EA	13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	667.05	32.82
32 84 23 00-0138	EA	16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	748.21	32.82
32 84 23 00-0139	EA	19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	866.29	32.82
32 84 23 00-0140	EA	22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	984.35	32.82
32 84 23 00-0141		**Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series)** *(32 84 23 00-0123)*		
32 84 23 00-0142		**Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series)** *(32 84 23 00-0141)*		
32 84 23 00-0143	EA	4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	425.06	32.82
32 84 23 00-0144	EA	7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	539.02	32.82
32 84 23 00-0145	EA	10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	652.99	32.82
32 84 23 00-0146	EA	13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	766.96	32.82
32 84 23 00-0147	EA	16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	848.11	32.82
32 84 23 00-0148	EA	19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	966.19	32.82
32 84 23 00-0149	EA	22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	1,084.26	32.82
32 84 23 00-0150		**Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series)** *(32 84 23 00-0141)*		
32 84 23 00-0151	EA	4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	455.32	32.82
32 84 23 00-0152	EA	7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	569.28	32.82
32 84 23 00-0153	EA	10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	683.25	32.82
32 84 23 00-0154	EA	13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	797.22	32.82
32 84 23 00-0155	EA	16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	878.37	32.82
32 84 23 00-0156	EA	19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	996.46	32.82
32 84 23 00-0157	EA	22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	1,114.52	32.82
32 84 23 00-0158		**Accessories For ESP-ME/MEI Irrigation Controllers** *(32 84 23 00-0123)*		
32 84 23 00-0159	EA	3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3) Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.	118.06	
32 84 23 00-0160	EA	6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6) Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.	227.71	
32 84 23 00-0161	EA	Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG)	282.49	
32 84 23 00-0162		**Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series)** *(32 84 23 00-0122)*		
32 84 23 00-0163		**Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series)** *(32 84 23 00-0162)*		
32 84 23 00-0164	EA	12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	654.37	32.82
32 84 23 00-0165	EA	16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	796.74	32.82
32 84 23 00-0166	EA	20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	941.10	32.82
32 84 23 00-0167	EA	24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,083.48	32.82
32 84 23 00-0168	EA	28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,227.81	32.82
32 84 23 00-0169	EA	32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,370.21	32.82
32 84 23 00-0170	EA	36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,514.55	32.82
32 84 23 00-0171	EA	40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,656.92	32.82
32 84 23 00-0172	EA	44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,801.27	32.82
32 84 23 00-0173	EA	48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series)	1,943.66	32.82
32 84 23 00-0174		**Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series)** *(32 84 23 00-0162)*		
32 84 23 00-0175	EA	8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	629.51	32.82
32 84 23 00-0176	EA	12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	771.89	32.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0177	EA	16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	916.22	32.82
32 84 23 00-0178	EA	20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,058.62	32.82
32 84 23 00-0179	EA	24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,202.96	32.82
32 84 23 00-0180	EA	28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,345.33	32.82
32 84 23 00-0181	EA	32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,489.68	32.82
32 84 23 00-0182	EA	36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,632.07	32.82
32 84 23 00-0183	EA	40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,776.40	32.82
32 84 23 00-0184	EA	44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	1,918.79	32.82
32 84 23 00-0185	EA	48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series)	2,063.14	32.82
32 84 23 00-0186		**Accessories For ESP-LX/LXME Irrigation Controllers** *(32 84 23 00-0162)*		
32 84 23 00-0187	EA	Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM)	439.49	
32 84 23 00-0188	EA	Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM) Note: Excludes concrete foundation.	1,011.19	
32 84 23 00-0189	EA	Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS)	934.05	
32 84 23 00-0190	EA	Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS) Note: Excludes concrete foundation.	2,068.88	
32 84 23 00-0191	EA	4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4) Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.	142.38	
32 84 23 00-0192	EA	8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8) Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.	286.73	
32 84 23 00-0193	EA	12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12) Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.	442.57	
32 84 23 00-0194	EA	Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME)	158.66	
32 84 23 00-0195		**Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series)** *(32 84 23 00-0122)*		
32 84 23 00-0196		**Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series)** *(32 84 23 00-0195)*		
32 84 23 00-0197	EA	1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	304.10	32.82
32 84 23 00-0198	EA	2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	371.19	32.82
32 84 23 00-0199	EA	4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	472.06	32.82
32 84 23 00-0200		**Accessories For TBOS-II Series Irrigation Controllers** *(32 84 23 00-0195)*		
32 84 23 00-0201	EA	Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS)	342.77	
32 84 23 00-0202	EA	Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL)	82.15	24.61
32 84 23 00-0203		**Accessories For Irrigation Controllers (Rain Bird®)** *(32 84 23 00-0122)*		
32 84 23 00-0204	EA	Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX)	130.76	24.61
32 84 23 00-0205	EA	Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC)	255.15	24.61
32 84 23 00-0206	EA	Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC)	266.90	24.61
32 84 23 00-0207	EA	Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y)	368.75	24.61
32 84 23 00-0208		**Two-Wire Decoder Systems** *(32 84 23 00-0120)*		
32 84 23 00-0209		**Two-Wire Decoder Systems (Rain Bird®)** *(32 84 23 00-0208)*		
32 84 23 00-0210		**Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)** *(32 84 23 00-0209)* Note: Includes water resistant cabinet.		
32 84 23 00-0211	EA	50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	1,763.49	32.82
32 84 23 00-0212	EA	125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	2,641.31	32.82
32 84 23 00-0213	EA	200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	3,519.14	32.82
32 84 23 00-0214		**Field Decoders For Two-Wire Decoder Systems (Rain Bird®)** *(32 84 23 00-0209)*		
32 84 23 00-0215	EA	One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF)	225.18	32.82
32 84 23 00-0216	EA	One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF)	284.68	32.82
32 84 23 00-0217	EA	Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF)	420.70	32.82
32 84 23 00-0218	EA	Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF)	503.72	32.82
32 84 23 00-0219	EA	Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF)	816.41	32.82
32 84 23 00-0220		**Accessories For Two-Wire Decoder Systems (Rain Bird®)** *(32 84 23 00-0209)*		
32 84 23 00-0221	EA	50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD)	1,332.33	
32 84 23 00-0222	EA	75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	877.82	
32 84 23 00-0223	EA	Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF)	171.39	28.71
32 84 23 00-0224	EA	Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	703.91	32.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0225		**Calsense Controllers** *(32 84 23 00-0120)*		
32 84 23 00-0226		**Irrigation Controllers** *(32 84 23 00-0225)*		
32 84 23 00-0227	EA	6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6)	1,833.29	82.03
32 84 23 00-0228	EA	8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8)	2,358.44	92.28
32 84 23 00-0229	EA	12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12)	3,225.21	102.54
32 84 23 00-0230	EA	16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16)	3,543.52	102.54
32 84 23 00-0231	EA	24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24)	4,185.13	112.79
32 84 23 00-0232	EA	32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32)	5,039.15	112.79
32 84 23 00-0233	EA	40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40)	5,704.05	123.05
32 84 23 00-0234	EA	48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48)	6,379.50	123.05
32 84 23 00-0235	EA	Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE)	1,846.53	41.02
32 84 23 00-0236	EA	Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE)	787.83	41.02
32 84 23 00-0237		**Irrigation Controller Accessories** *(32 84 23 00-0225)*		
32 84 23 00-0238	EA	Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1)	74.53	
32 84 23 00-0239	EA	Spare Lock For Enclosures (Calsense PAD)	80.74	
32 84 23 00-0240	EA	Hardware And Software For Up To 4 Additional Light Circuits (Calsense L)	101.25	10.25
32 84 23 00-0241	EA	Transformer For Irrigation Controllers (Calsense TR-1)	159.67	41.02
32 84 23 00-0242	EA	AC Line Protection For Irrigation Controllers (Calsense TP-110)	400.35	41.02
32 84 23 00-0243	EA	Transient Protection Board For Irrigation Controller Stations (Calsense TP-1)	524.57	41.02
		For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add	*351.22*	
32 84 23 00-0244		**Sensors For Irrigation Controllers** *(32 84 23 00-0225)*		
32 84 23 00-0245		**Flow Sensors** *(32 84 23 00-0244)*		
32 84 23 00-0246	EA	1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	914.96	61.53
		For Flow Meter Replacement Insert Only, Deduct	*-537.92*	
32 84 23 00-0247	EA	2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2)	946.01	61.53
		For Flow Meter Replacement Insert Only, Deduct	*-568.97*	
32 84 23 00-0248	EA	3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3)	977.07	61.53
		For Flow Meter Replacement Insert Only, Deduct	*-600.03*	
32 84 23 00-0249	EA	1" Brass Tee Mounted Flow Meter (Calsense FM 1B)	1,087.96	82.03
		For Flow Meter Replacement Insert Only, Deduct	*-710.61*	
32 84 23 00-0250	EA	1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B)	1,165.60	82.03
		For Flow Meter Replacement Insert Only, Deduct	*-788.25*	
32 84 23 00-0251	EA	1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B)	1,196.66	82.03
		For Flow Meter Replacement Insert Only, Deduct	*-819.31*	
32 84 23 00-0252	EA	2" Brass Tee Mounted Flow Meter (Calsense FM 2B)	1,398.51	82.03
		For Flow Meter Replacement Insert Only, Deduct	*-892.98*	
32 84 23 00-0253	EA	2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX) Note: For 4" and larger pipe. Excludes pipe saddle.	1,075.80	41.02
		For Flow Meter Replacement Insert Only, Deduct	*-570.27*	
32 84 23 00-0254		**Moisture Sensors** *(32 84 23 00-0244)*		
32 84 23 00-0255	EA	Soil Moisture Sensor (Calsense 1000-S)	387.61	30.76
32 84 23 00-0256		**Weather Sensors** *(32 84 23 00-0244)*		
32 84 23 00-0257	EA	Wind Gage, Irrigation Weather Sensor (Calsense WG-1)	1,056.91	82.03
32 84 23 00-0258	EA	Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1)	1,252.02	164.07
32 84 23 00-0259	EA	ET Gage, Irrigation Weather Sensor (Calsense ETG)	2,381.14	123.05
32 84 23 00-0260		**Weather Sensor Accessories** *(32 84 23 00-0244)*		
32 84 23 00-0261	EA	Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C)	703.13	
32 84 23 00-0262	EA	Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB)	1,308.71	
32 84 23 00-0263	EA	Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE)	703.13	41.02
32 84 23 00-0264	EA	Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE)	1,586.02	41.02
32 84 23 00-0265		**Antennas For Irrigation Controllers** *(32 84 23 00-0225)* Note: Excludes antenna cable.		
32 84 23 00-0266	EA	Local Radio Dome Antenna (Calsense LR-DOME)	377.05	41.02
32 84 23 00-0267	EA	Local Radio Stick Antenna (Calsense LR-STICK)	540.09	41.02
32 84 23 00-0268	EA	Local Radio Yagi Antenna (Calsense LR-YAGI)	622.13	82.03
32 84 23 00-0269	EA	Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR)	377.05	41.02
32 84 23 00-0270	EA	Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE)	377.05	41.02
32 84 23 00-0271	EA	GPRS Stubby Antenna (Calsense GR-STUBBY)	377.05	41.02
32 84 23 00-0272	EA	GPRS Stick Antenna (Calsense GR-STICK)	540.09	41.02
32 84 23 00-0273	EA	Spread Spectrum Dome Antenna (Calsense SR-DOME)	377.05	41.02
32 84 23 00-0274	EA	Spread Spectrum Stick Antenna (Calsense SR-STICK)	540.09	41.02
32 84 23 00-0275	EA	Spread Spectrum Yagi Antenna (Calsense SR-YAGI)	622.13	82.03
32 84 23 00-0276	EA	Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR)	377.05	41.02
32 84 23 00-0277	EA	Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE)	377.05	41.02
32 84 23 00-0278	EA	Spread Spectrum Stubby Antenna (Calsense SR-STUBBY)	377.05	41.02

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32 84 23 00-0279	EA	WiFi Stubby Antenna (Calsense WEN-STUBBY)	377.05	41.02
32 84 23 00-0280	LF	Antenna Cable With End Connectors (Calsense LMR-400-DB)	9.99	0.49
32 84 23 00-0281	EA	Surge Protection Device For Antenna (Calsense ANT-PROT)	367.10	20.51
32 84 23 00-0282	EA	5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5)	602.20	41.02
32 84 23 00-0283	EA	3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM)	504.65	
32 84 23 00-0284	EA	Local Radio Frequency Filter (Calsense LR-FILTER)	714.27	
32 84 23 00-0285	EA	Spread Spectrum Frequency Filter (Calsense SR-FILTER)	527.94	

32 84 23 00-0286 Pedestals And Enclosures For Irrigation Controllers *(32 84 23 00-0225)*

32 84 23 00-0287	EA	15 Amp, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER)	355.96	61.53
32 84 23 00-0288	EA	Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	840.31	102.54
32 84 23 00-0289	EA	Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP) Note: Includes GFI and receptacle.	897.23	41.02
32 84 23 00-0290	EA	Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1) Note: Includes factory installed transient protection board and AC line protection.	1,063.06	30.76
32 84 23 00-0291	EA	Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE) Note: Includes factory installed transient protection board and AC line protection.	3,300.09	30.76
32 84 23 00-0292	EA	Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R) Note: Includes factory installed transient protection board, AC line protection and dome antenna.	3,726.04	30.76
32 84 23 00-0293	EA	Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D) Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.	5,414.43	61.53
32 84 23 00-0294	EA	Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R) Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.	5,673.81	61.53
32 84 23 00-0295	EA	Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM)	189.90	
32 84 23 00-0296	EA	Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED)	612.76	

32 84 23 00-0297 Central Computer For Irrigation Control Systems *(32 84 23 00-0225)*

32 84 23 00-0298	EA	Central Computer For Irrigation Control Systems (Calsense COMP-2) Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.	4,161.55	
32 84 23 00-0299	EA	Command Center Water Management Software For Central Computer (Calsense COMM-1)	7,351.77	
32 84 23 00-0300	EA	Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5) Note: Package price for up to 5 users. Includes remote communication through internet connection.	1,417.33	
32 84 23 00-0301	EA	>5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10) Note: Package price for 6 to 10 users. Includes remote communication through internet connection.	2,777.23	
32 84 23 00-0302	EA	Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2)	4,467.05	
32 84 23 00-0303	EA	GPRS Radio For Use At Central Computer (Calsense DTR-G)	2,667.92	

32 84 23 00-0304 Data Access Service *(32 84 23 00-0225)*

32 84 23 00-0305	EA	1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN) Note: For communication between GPRS unit and up to 2 controllers.	22.59	
32 84 23 00-0306	EA	1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR) Note: For communication between GPRS unit and up to 2 controllers.	247.03	
32 84 23 00-0307	EA	5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR) Note: For communication between GPRS unit and up to 2 controllers.	1,058.70	
32 84 23 00-0308	EA	1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M) Note: For communication between GPRS unit and multiple controllers.	91.75	
32 84 23 00-0309	EA	1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M) Note: For communication between GPRS unit and multiple controllers.	988.12	
32 84 23 00-0310	EA	5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M) Note: For communication between GPRS unit and multiple controllers.	4,234.80	

32 84 23 00-0311 Communication Options For Irrigation Controllers *(32 84 23 00-0225)*

32 84 23 00-0312	EA	FCC License Fee (Calsense)	161.01	
32 84 23 00-0313	EA	P.C.I.A. And/Or A.P.C.O. Fee (Calsense) Note: Per frequency or frequency pair.	302.17	
32 84 23 00-0314	EA	Hardware Communication Option For Irrigation Controllers (Calsense M) Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.	818.73	
32 84 23 00-0315	EA	Phone Line Communication Option For Irrigation Controllers (Calsense R)	861.08	
32 84 23 00-0316	EA	Ethernet Communication Option For Irrigation Controllers (Calsense EN)	861.08	
32 84 23 00-0317	EA	WiFi Communication Option For Irrigation Controllers (Calsense WEN)	1,764.50	
32 84 23 00-0318	EA	Local Radio Communication Option For Irrigation Controllers (Calsense LR)	2,244.44	
32 84 23 00-0319	EA	Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR)	2,244.44	
32 84 23 00-0320	EA	GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR)	2,244.44	
32 84 23 00-0321	EA	Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM)	7,199.16	
32 84 23 00-0322	EA	Communication Hub For Irrigation Controllers (Calsense HUB) Note: Accepts up to two communication options. Excludes communication options.	2,783.05	

32 84 23 00-0323 Retrofit Options For Irrigation Controllers *(32 84 23 00-0225)*

32 84 23 00-0324 Weather Retrofits For Irrigation Controllers *(32 84 23 00-0323)*

32 84 23 00-0325	EA	Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO)	1,119.56	
32 84 23 00-0326	EA	Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO)	1,119.56	
32 84 23 00-0327	EA	Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO)	1,119.56	
32 84 23 00-0328	EA	Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO)	1,119.56	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0329		**Phone Communication Retrofits For Irrigation Controllers** *(32 84 23 00-0323)*		
32 84 23 00-0330	EA	Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO)	1,176.02	
32 84 23 00-0331	EA	Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO)	1,387.76	
32 84 23 00-0332	EA	Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO)	2,213.55	
32 84 23 00-0333		**Local Radio Communication Retrofits For Irrigation Controllers** *(32 84 23 00-0323)*		
32 84 23 00-0334	EA	Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO)	1,317.18	
32 84 23 00-0335	EA	Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO)	2,757.01	
32 84 23 00-0336	EA	Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO)	3,575.74	
32 84 23 00-0337		**Spread Spectrum Radio Communication Retrofits For Irrigation Controllers** *(32 84 23 00-0323)*		
32 84 23 00-0338	EA	Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro)	1,317.18	
32 84 23 00-0339	EA	Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR-RETRO)	2,757.01	
32 84 23 00-0340	EA	Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO)	3,575.74	
32 84 23 00-0341		**Ethernet Communication Retrofits For Irrigation Controllers** *(32 84 23 00-0323)*		
32 84 23 00-0342	EA	Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro)	1,317.18	
32 84 23 00-0343	EA	Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO)	1,387.76	
32 84 23 00-0344	EA	Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	2,213.55	
32 84 23 00-0345		**GPRS Radio Modem Communication Retrofits For Irrigation Controllers** *(32 84 23 00-0323)*		
32 84 23 00-0346	EA	Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO)	1,317.18	
32 84 23 00-0347	EA	Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO)	2,757.01	
32 84 23 00-0348	EA	Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO)	3,575.74	
32 84 23 00-0349		**Radio Remote Units For Irrigation Controllers** *(32 84 23 00-0225)*		
32 84 23 00-0350	EA	Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN)	1,324.24	
32 84 23 00-0351	EA	Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe)	279.50	
		Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.		
32 84 23 00-0352	EA	Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG)	119.99	
32 84 23 00-0353	EA	Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT)	218.13	
32 84 23 00-0354	EA	Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)	140.50	10.25
		Note: Excludes antenna cable.		
32 84 23 00-0355	EA	Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP)	267.54	10.25
		Note: Excludes antenna cable.		
32 84 23 00-0356	EA	Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)	288.71	10.25
		Note: Excludes antenna cable.		
32 84 23 00-0357		**Satellite Irrigation Controllers (Rain Bird® ESP-SAT)** *(32 84 23 00-0120)*		
		Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358	EA	12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS)	3,151.73	184.58
32 84 23 00-0359	EA	24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS)	3,323.87	194.83
32 84 23 00-0360	EA	40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS)	4,584.47	205.09
32 84 23 00-0361		**LEIT Controllers** *(32 84 23 00-0120)*		
32 84 23 00-0362		**LEIT X Series Irrigation Controller** *(32 84 23 00-0361)*		
32 84 23 00-0363	EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	2,942.36	32.82
32 84 23 00-0364	EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,225.93	32.82
32 84 23 00-0365	EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	3,700.50	32.82
32 84 23 00-0366	EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,175.09	32.82
32 84 23 00-0367	EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,516.08	32.82
32 84 23 00-0368	EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,857.07	32.82
32 84 23 00-0369		**LEIT X Series Irrigation Controller Assembly** *(32 84 23 00-0361)*		
		Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370	EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,413.36	169.89

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0371	EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	3,696.92	169.89
32 84 23 00-0372	EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,171.51	169.89
32 84 23 00-0373	EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,646.08	169.89
32 84 23 00-0374	EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	4,987.07	169.89
32 84 23 00-0375	EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole	5,328.07	169.89

32 84 23 00-0376 Enclosure For LEIT Controller Assembly *(32 84 23 00-0361)*

Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.

32 84 23 00-0377	EA	12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch Note: For LEIT Controller	2,292.85	225.25

32 84 23 00-0378 Hunter Controllers *(32 84 23 00-0120)*

32 84 23 00-0379 Hunter XC Hybrid Controller *(32 84 23 00-0378)*

Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.

32 84 23 00-0380	EA	6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS)	518.01	82.03
32 84 23 00-0381	EA	12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS)	658.16	102.54

32 84 23 00-0382 DC Latching Solenoid *(32 84 23 00-0120)*

32 84 23 00-0383	EA	DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers Note: As per manufacture of valve.	32.01	
32 84 23 00-0384	EA	DC Solenoid For LEIT Controllers (DIG S-305DC)	47.06	

32 84 23 00-0385 Irrigation Controller Enclosure Cabinet *(32 84 23 00-0120)*

Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.

32 84 23 00-0386	EA	35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,363.61	450.81
32 84 23 00-0387	EA	35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,555.21	491.80
32 84 23 00-0388	EA	35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,822.54	532.77
32 84 23 00-0389	EA	35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet,	2,363.63	450.81
32 84 23 00-0390	EA	35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	2,555.21	491.80
32 84 23 00-0391	EA	35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	2,822.54	532.77
32 84 23 00-0392	EA	35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	2,874.95	450.81
32 84 23 00-0393	EA	35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,130.45	491.80
32 84 23 00-0394	EA	35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet	3,397.77	532.77

32 84 23 00-0395 Irrigation Valves *(32 84 23)*

32 84 23 00-0396 Reduced Pressure Zone Valves With QT Shut-Offs *(32 84 23 00-0395)*

Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).

32 84 23 00-0397	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	602.28	38.51
32 84 23 00-0398	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	715.13	47.03
32 84 23 00-0399	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,074.23	54.73
32 84 23 00-0400	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,137.57	62.83
32 84 23 00-0401	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,367.39	81.07

32 84 23 00-0402 Brass Quick-Coupling Irrigation Valves *(32 84 23 00-0395)*

32 84 23 00-0403	EA	3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC)	139.49	33.60
		For Valve Key, Add	*37.22*	
32 84 23 00-0404	EA	3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC)	143.79	33.60
		For Locking Cover, Add	*25.00*	
		For Valve Key, Add	*37.22*	
32 84 23 00-0405	EA	1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC)	191.14	33.60
		For Valve Key, Add	*95.20*	
32 84 23 00-0406	EA	1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC)	208.36	33.60
		For Valve Key, Add	*95.20*	
32 84 23 00-0407	EA	1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP)	200.25	33.60
32 84 23 00-0408	EA	1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP)	208.36	33.60

32 84 23 00-0409 Anti-Siphon Pressure Type Vacuum Breaker *(32 84 23 00-0395)*

Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.

32 84 23 00-0410	EA	3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT)	233.65	28.38
32 84 23 00-0411	EA	1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT)	333.55	32.43
32 84 23 00-0412	EA	1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT)	602.10	37.50
32 84 23 00-0413	EA	1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT)	733.10	41.55
32 84 23 00-0414	EA	2" Anti-Siphon Pressure Type Vacuum Breaker	740.56	50.68

32 84 23 00-0415 Aluminum Cam And Groove Adapter *(32 84 23 00-0395)*

32 84 23 00-0416	EA	1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread	34.59	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0417	EA	2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread	36.49	
32 84 23 00-0418	EA	1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread	35.39	
32 84 23 00-0419	EA	2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread	38.00	

32 84 23 00-0420 Irrigation Piping *(32 84 23)*

32 84 23 00-0421 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers *(32 84 23 00-0420)*

Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.

32 84 23 00-0422 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers *(32 84 23 00-0421)*

32 84 23 00-0423	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	2.61	0.94
		For >1,000, Deduct	*-0.13*	
32 84 23 00-0424	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.20	1.17
		For >1,000, Deduct	*-0.16*	
32 84 23 00-0425	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.87	1.40
		For >1,000, Deduct	*-0.19*	
32 84 23 00-0426	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.14	1.77
		For >1,000, Deduct	*-0.26*	
32 84 23 00-0427	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.45	2.22
		For >1,000, Deduct	*-0.32*	
32 84 23 00-0428	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.17	2.59
		For >1,000, Deduct	*-0.41*	
32 84 23 00-0429	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	11.25	3.73
		For >1,000, Deduct	*-0.56*	
32 84 23 00-0430	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.68	4.67
		For >1,000, Deduct	*-0.73*	
32 84 23 00-0431	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	20.76	5.83
		For >1,000, Deduct	*-1.04*	

32 84 23 00-0432 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers *(32 84 23 00-0421)*

32 84 23 00-0433	LF	3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	3.03	1.17
		For >1,000, Deduct	*-0.15*	
32 84 23 00-0434	LF	1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	3.58	1.40
		For >1,000, Deduct	*-0.18*	
32 84 23 00-0435	LF	1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.94	1.77
		For >1,000, Deduct	*-0.25*	
32 84 23 00-0436	LF	2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	6.28	2.22
		For >1,000, Deduct	*-0.31*	
32 84 23 00-0437	LF	2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	7.92	2.59
		For >1,000, Deduct	*-0.40*	
32 84 23 00-0438	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	11.16	3.73
		For >1,000, Deduct	*-0.56*	
32 84 23 00-0439	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	15.20	4.67
		For >1,000, Deduct	*-0.76*	
32 84 23 00-0440	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	24.10	5.83
		For >1,000, Deduct	*-1.21*	

32 84 23 00-0441 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers *(32 84 23 00-0421)*

32 84 23 00-0442	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.17	1.17
		For >1,000, Deduct	*-0.16*	
32 84 23 00-0443	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.78	1.40
		For >1,000, Deduct	*-0.19*	
32 84 23 00-0444	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.31	1.77
		For >1,000, Deduct	*-0.27*	
32 84 23 00-0445	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.89	2.22
		For >1,000, Deduct	*-0.34*	
32 84 23 00-0446	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.90	2.59
		For >1,000, Deduct	*-0.45*	
32 84 23 00-0447	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	11.25	3.73
		For >1,000, Deduct	*-0.56*	
32 84 23 00-0448	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.68	4.67
		For >1,000, Deduct	*-0.73*	
32 84 23 00-0449	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	21.09	5.83
		For >1,000, Deduct	*-1.05*	

32 84 23 00-0450 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted *(32 84 23 00-0420)*

Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.

32 84 23 00-0451 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0452	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.15	1.17
		For >1,000, Deduct	*-0.26*	
32 84 23 00-0453	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.81	1.40
		For >1,000, Deduct	*-0.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0454	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.08	1.77
		For >1,000, Deduct	*-0.35*	
32 84 23 00-0455	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.38	2.22
		For >1,000, Deduct	*-0.42*	
32 84 23 00-0456	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.12	2.59
		For >1,000, Deduct	*-0.51*	
32 84 23 00-0457	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	13.20	3.73
		For >1,000, Deduct	*-0.66*	
32 84 23 00-0458	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.60	4.67
		For >1,000, Deduct	*-0.83*	
32 84 23 00-0459	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	22.70	5.83
		For >1,000, Deduct	*-1.14*	

32 84 23 00-0460 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0461	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.37	1.17
		For >1,000, Deduct	*-0.27*	
32 84 23 00-0462	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.03	1.40
		For >1,000, Deduct	*-0.30*	
32 84 23 00-0463	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.30	1.77
		For >1,000, Deduct	*-0.37*	
32 84 23 00-0464	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	8.60	2.22
		For >1,000, Deduct	*-0.43*	
32 84 23 00-0465	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.34	2.59
		For >1,000, Deduct	*-0.52*	
32 84 23 00-0466	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	13.43	3.73
		For >1,000, Deduct	*-0.67*	
32 84 23 00-0467	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	16.83	4.67
		For >1,000, Deduct	*-0.84*	
32 84 23 00-0468	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	22.92	5.83
		For >1,000, Deduct	*-1.15*	

32 84 23 00-0469 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0470	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.59	1.17
		For >1,000, Deduct	*-0.28*	
32 84 23 00-0471	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.26	1.40
		For >1,000, Deduct	*-0.31*	
32 84 23 00-0472	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.51	1.77
		For >1,000, Deduct	*-0.38*	
32 84 23 00-0473	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.82	2.22
		For >1,000, Deduct	*-0.44*	
32 84 23 00-0474	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.57	2.59
		For >1,000, Deduct	*-0.53*	
32 84 23 00-0475	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	13.65	3.73
		For >1,000, Deduct	*-0.68*	
32 84 23 00-0476	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	17.05	4.67
		For >1,000, Deduct	*-0.85*	
32 84 23 00-0477	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	23.14	5.83
		For >1,000, Deduct	*-1.16*	

32 84 23 00-0478 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0479	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.06	1.17
		For >1,000, Deduct	*-0.25*	
32 84 23 00-0480	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.67	1.40
		For >1,000, Deduct	*-0.28*	
32 84 23 00-0481	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.09	1.77
		For >1,000, Deduct	*-0.35*	
32 84 23 00-0482	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.68	2.22
		For >1,000, Deduct	*-0.43*	
32 84 23 00-0483	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.60	2.59
		For >1,000, Deduct	*-0.53*	
32 84 23 00-0484	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	13.10	3.73
		For >1,000, Deduct	*-0.66*	
32 84 23 00-0485	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	17.13	4.67
		For >1,000, Deduct	*-0.86*	
32 84 23 00-0486	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	26.03	5.83
		For >1,000, Deduct	*-1.30*	

32 84 23 00-0487 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0488	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.28	1.17
		For >1,000, Deduct	*-0.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0489	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.89	1.40
		For >1,000, Deduct	*-0.29*	
32 84 23 00-0490	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.31	1.77
		For >1,000, Deduct	*-0.37*	
32 84 23 00-0491	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	8.90	2.22
		For >1,000, Deduct	*-0.45*	
32 84 23 00-0492	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.82	2.59
		For >1,000, Deduct	*-0.54*	
32 84 23 00-0493	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	13.33	3.73
		For >1,000, Deduct	*-0.67*	
32 84 23 00-0494	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	17.36	4.67
		For >1,000, Deduct	*-0.87*	
32 84 23 00-0495	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	26.25	5.83
		For >1,000, Deduct	*-1.31*	

32 84 23 00-0496 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0497	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.50	1.17
		For >1,000, Deduct	*-0.28*	
32 84 23 00-0498	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.12	1.40
		For >1,000, Deduct	*-0.31*	
32 84 23 00-0499	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 124" Of Cover, Backfilled And Compacted	7.52	1.77
		For >1,000, Deduct	*-0.38*	
32 84 23 00-0500	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	9.12	2.22
		For >1,000, Deduct	*-0.46*	
32 84 23 00-0501	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	11.05	2.59
		For >1,000, Deduct	*-0.55*	
32 84 23 00-0502	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	13.55	3.73
		For >1,000, Deduct	*-0.68*	
32 84 23 00-0503	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	17.58	4.67
		For >1,000, Deduct	*-0.88*	
32 84 23 00-0504	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	26.47	5.83
		For >1,000, Deduct	*-1.32*	

32 84 23 00-0505 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0506	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.12	1.17
		For >1,000, Deduct	*-0.26*	
32 84 23 00-0507	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	5.72	1.40
		For >1,000, Deduct	*-0.29*	
32 84 23 00-0508	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.25	1.77
		For >1,000, Deduct	*-0.36*	
32 84 23 00-0509	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.83	2.22
		For >1,000, Deduct	*-0.44*	
32 84 23 00-0510	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.84	2.59
		For >1,000, Deduct	*-0.54*	
32 84 23 00-0511	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	13.20	3.73
		For >1,000, Deduct	*-0.66*	
32 84 23 00-0512	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.60	4.67
		For >1,000, Deduct	*-0.83*	
32 84 23 00-0513	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	23.02	5.83
		For >1,000, Deduct	*-1.15*	

32 84 23 00-0514 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0515	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.34	1.17
		For >1,000, Deduct	*-0.27*	
32 84 23 00-0516	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	5.94	1.40
		For >1,000, Deduct	*-0.30*	
32 84 23 00-0517	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.47	1.77
		For >1,000, Deduct	*-0.37*	
32 84 23 00-0518	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.05	2.22
		For >1,000, Deduct	*-0.45*	
32 84 23 00-0519	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	11.06	2.59
		For >1,000, Deduct	*-0.55*	
32 84 23 00-0520	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	13.43	3.73
		For >1,000, Deduct	*-0.67*	
32 84 23 00-0521	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	16.83	4.67
		For >1,000, Deduct	*-0.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0522	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	23.24	5.83
		For >1,000, Deduct	*-1.16*	

32 84 23 00-0523 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted *(32 84 23 00-0450)*

32 84 23 00-0524	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	5.56	1.17
		For >1,000, Deduct	*-0.28*	
32 84 23 00-0525	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.17	1.40
		For >1,000, Deduct	*-0.31*	
32 84 23 00-0526	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.68	1.77
		For >1,000, Deduct	*-0.38*	
32 84 23 00-0527	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	9.27	2.22
		For >1,000, Deduct	*-0.46*	
32 84 23 00-0528	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	11.29	2.59
		For >1,000, Deduct	*-0.56*	
32 84 23 00-0529	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	13.65	3.73
		For >1,000, Deduct	*-0.68*	
32 84 23 00-0530	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	17.05	4.67
		For >1,000, Deduct	*-0.85*	
32 84 23 00-0531	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	23.46	5.83
		For >1,000, Deduct	*-1.17*	

32 84 23 00-0532 Irrigation Riser Piping With Fittings *(32 84 23 00-0420)*

32 84 23 00-0533	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	13.88	2.80
32 84 23 00-0534	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	15.07	3.50
32 84 23 00-0535	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	14.98	3.27
32 84 23 00-0536	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	16.45	4.08
32 84 23 00-0537	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	29.55	4.90
32 84 23 00-0538	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	31.63	6.12
32 84 23 00-0539	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	34.77	6.30
32 84 23 00-0540	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	37.45	7.88
32 84 23 00-0541	EA	1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	40.00	7.70
32 84 23 00-0542	EA	3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	43.27	9.63

32 84 23 00-0543 Irrigation Crossover Piping With Fittings *(32 84 23 00-0420)*

Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0587 for irrigation wiring.

32 84 23 00-0544 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench *(32 84 23 00-0543)*

32 84 23 00-0545	LF	6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation	28.61	
		For >1,000, Deduct	*-1.43*	
32 84 23 00-0546	LF	8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation	39.89	
		For >1,000, Deduct	*-1.99*	
32 84 23 00-0547	LF	10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation	54.35	
		For >1,000, Deduct	*-2.72*	
32 84 23 00-0548	LF	12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation	71.30	
		For >1,000, Deduct	*-3.57*	

32 84 23 00-0549 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench *(32 84 23 00-0543)*

32 84 23 00-0550	LF	6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	29.27	
		For >1,000, Deduct	*-1.46*	
32 84 23 00-0551	LF	8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	40.64	
		For >1,000, Deduct	*-2.03*	
32 84 23 00-0552	LF	10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	55.16	
		For >1,000, Deduct	*-2.76*	
32 84 23 00-0553	LF	12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	72.19	
		For >1,000, Deduct	*-3.61*	

32 84 23 00-0554 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench *(32 84 23 00-0543)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0555	LF	6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation	29.94	
		For >1,000, Deduct	*-1.50*	
32 84 23 00-0556	LF	8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	41.38	
		For >1,000, Deduct	*-2.07*	
32 84 23 00-0557	LF	10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	55.98	
		For >1,000, Deduct	*-2.80*	
32 84 23 00-0558	LF	12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation	73.09	
		For >1,000, Deduct	*-3.65*	

32 84 23 00-0559 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore *(32 84 23 00-0543)*

32 84 23 00-0560	LF	6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	79.92	
		For >1,000, Deduct	*-4.00*	
32 84 23 00-0561	LF	8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	101.58	
		For >1,000, Deduct	*-5.08*	
32 84 23 00-0562	LF	10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	121.15	
		For >1,000, Deduct	*-6.06*	
32 84 23 00-0563	LF	12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	143.22	
		For >1,000, Deduct	*-7.16*	

32 84 23 00-0564 Below Ground Cam Adapter Assembly *(32 84 23 00-0420)*

Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe

32 84 23 00-0565	EA	Below Ground Cam Adapter Assembly Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	591.29	

32 84 23 00-0566 Above Ground Cam Adapter Assembly *(32 84 23 00-0420)*

Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe

32 84 23 00-0567	EA	Above Ground Cam Adapter Assembly Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	376.20	

32 84 23 00-0568 Thrust Block *(32 84 23 00-0420)*

32 84 23 00-0569	EA	Thrust Block For 1-1/2" Pipe Size And Smaller	32.42	
32 84 23 00-0570	EA	Thrust Block For 2" Pipe	55.89	
32 84 23 00-0571	EA	Thrust Block For 3" And 4" Pipe	79.37	
32 84 23 00-0572	EA	Thrust Block For 6" Pipe	126.71	
32 84 23 00-0573	EA	Thrust Block For 8" Pipe	180.41	

32 84 23 00-0574 Irrigation Swing Joints *(32 84 23)*

32 84 23 00-0575	EA	3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	53.18	18.58
32 84 23 00-0576	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	60.48	20.74
32 84 23 00-0577	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS)	80.74	20.74
32 84 23 00-0578	EA	1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	38.82	24.21
32 84 23 00-0579	EA	3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	51.87	32.30
32 84 23 00-0580	EA	1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	65.12	39.60
32 84 23 00-0581	EA	1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	55.30	24.59
32 84 23 00-0582	EA	3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	73.12	32.62
32 84 23 00-0583	EA	1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	89.85	40.00
32 84 23 00-0584	EA	1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III Note: Consists of two street 90 degree elbows.	31.31	15.06
32 84 23 00-0585	EA	3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III Note: Consists of two street 90 degree elbows.	41.84	20.08
32 84 23 00-0586	EA	1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III Note: Consists of two street 90 degree elbows.	49.61	24.90

32 84 23 00-0587 Irrigation Control Wire *(32 84 23)*

Note: Excludes excavation and backfill.

32 84 23 00-0588 18 AWG, Irrigation Control Wire, Buried In Trench *(32 84 23 00-0587)*

32 84 23 00-0589	CLF	1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	41.07	14.00
32 84 23 00-0590	CLF	2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	53.00	16.34
32 84 23 00-0591	CLF	3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	60.93	18.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0592	CLF	4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	69.60	21.01
32 84 23 00-0593	CLF	5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	78.98	23.34
32 84 23 00-0594	CLF	6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	93.46	25.66
32 84 23 00-0595	CLF	7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	107.38	28.00
32 84 23 00-0596	CLF	8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	116.63	30.33
32 84 23 00-0597	CLF	9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	127.79	32.67
32 84 23 00-0598	CLF	10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	140.47	35.00
32 84 23 00-0599	CLF	11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	145.84	37.33
32 84 23 00-0600	CLF	12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	151.95	39.67
32 84 23 00-0601	CLF	13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	160.38	42.00

32 84 23 00-0602 16 AWG, Irrigation Control Wire, Buried In Trench *(32 84 23 00-0587)*

32 84 23 00-0603	CLF	1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	43.00	14.00

32 84 23 00-0604 14 AWG, Irrigation Control Wire, Buried In Trench *(32 84 23 00-0587)*

32 84 23 00-0605	CLF	1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	43.01	14.00

32 84 23 00-0606 12 AWG, Irrigation Control Wire, Buried In Trench *(32 84 23 00-0587)*

32 84 23 00-0607	CLF	1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	55.78	14.00

32 84 23 00-0608 10 AWG, Irrigation Control Wire, Buried In Trench *(32 84 23 00-0587)*

32 84 23 00-0609	CLF	1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	71.96	14.00

32 84 23 00-0610 Root Watering Systems *(32 84 23)*

Note: Includes swing assembly.

32 84 23 00-0611	EA	0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401)	85.65	18.67
		For Root Watering Sand Sock, Add	*4.55*	
32 84 23 00-0612	EA	0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	92.35	18.67
		For Root Watering Sand Sock, Add	*4.55*	
32 84 23 00-0613	EA	0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402)	85.65	18.67
		For Root Watering Sand Sock, Add	*4.55*	
32 84 23 00-0614	EA	0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)	92.35	18.67
		For Root Watering Sand Sock, Add	*4.55*	
32 84 23 00-0615	EA	1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)	92.35	18.67
		For Root Watering Sand Sock, Add	*4.55*	
32 84 23 00-0616	EA	0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401)	74.35	16.34
		For Root Watering Sand Sock, Add	*4.09*	
32 84 23 00-0617	EA	0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	80.78	16.34
		For Root Watering Sand Sock, Add	*4.09*	
32 84 23 00-0618	EA	0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402)	74.35	16.34
		For Root Watering Sand Sock, Add	*4.09*	
32 84 23 00-0619	EA	0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	80.78	16.34
		For Root Watering Sand Sock, Add	*4.09*	
32 84 23 00-0620	EA	0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)	50.17	14.00
		For Root Watering Sand Sock, Add	*3.63*	
32 84 23 00-0621	EA	0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401)	56.30	14.00
		For Root Watering Sand Sock, Add	*3.63*	

32 90 Planting *(32)*

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation *(32 90)*

32 91 13 Soil Preparation *(32 91)*

32 91 13 16 Mulching *(32 91 13)*

32 91 13 16-0001 Mulch *(32 91 13 16)*

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

32 91 13 16-0002	CY	Pine Bark Nugget Mulch	88.77
		For >5 To 20, Deduct	*-7.70*
		For >20 To 50, Deduct	*-11.55*
		For >50, Deduct	*-15.99*
		For Work On Slopes >2.5:1, Add	*13.04*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0003	CY	Hardwood Bark Nugget Mulch	87.83	
		For >5 To 20, Deduct	*-7.65*	
		For >20 To 50, Deduct	*-11.48*	
		For >50, Deduct	*-15.87*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0004	CY	Pine Wood Chip Mulch	85.94	
		For >5 To 20, Deduct	*-7.56*	
		For >20 To 50, Deduct	*-11.34*	
		For >50, Deduct	*-15.63*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0005	CY	Hardwood Chip Mulch	89.71	
		For >5 To 20, Deduct	*-7.75*	
		For >20 To 50, Deduct	*-11.62*	
		For >50, Deduct	*-16.10*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0006	CY	Shredded Hardwood Mulch	89.71	
		For >5 To 20, Deduct	*-7.75*	
		For >20 To 50, Deduct	*-11.62*	
		For >50, Deduct	*-16.10*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0007	CY	Shredded Pine Mulch	81.23	
		For >5 To 20, Deduct	*-7.32*	
		For >20 To 50, Deduct	*-10.98*	
		For >50, Deduct	*-15.04*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0008	CY	Shredded Cedar Mulch	99.60	
		For >5 To 20, Deduct	*-8.24*	
		For >20 To 50, Deduct	*-12.36*	
		For >50, Deduct	*-17.34*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0009	CY	Shredded Cypress Mulch	98.19	
		For >5 To 20, Deduct	*-8.17*	
		For >20 To 50, Deduct	*-12.26*	
		For >50, Deduct	*-17.16*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0010	CY	Shredded Redwood Mulch	101.96	
		For >5 To 20, Deduct	*-8.36*	
		For >20 To 50, Deduct	*-12.54*	
		For >50, Deduct	*-17.64*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0011	CY	Pea Gravel Mulch	96.16	
		For >5 To 20, Deduct	*-8.07*	
		For >20 To 50, Deduct	*-12.10*	
		For >50, Deduct	*-16.91*	
		For Work On Slopes >2.5:1, Add	*13.04*	
32 91 13 16-0012	CY	Chunk Recycled Tire Mulch	149.28	
		For >5 To 20, Deduct	*-11.63*	
		For >20 To 50, Deduct	*-17.45*	
		For >50, Deduct	*-24.91*	
		For Work On Slopes >2.5:1, Add	*16.66*	
32 91 13 16-0013	CY	Chunk Colored Recycled Tire Mulch	214.30	
		For >5 To 20, Deduct	*-14.88*	
		For >20 To 50, Deduct	*-22.32*	
		For >50, Deduct	*-33.04*	
		For Work On Slopes >2.5:1, Add	*16.66*	
32 91 13 16-0014	CY	Shredded Recycled Tire Mulch	215.24	
		For >5 To 20, Deduct	*-14.93*	
		For >20 To 50, Deduct	*-22.39*	
		For >50, Deduct	*-33.15*	
		For Work On Slopes >2.5:1, Add	*16.66*	
32 91 13 16-0015	CY	Shredded Colored Recycled Tire Mulch	345.28	
		For >5 To 20, Deduct	*-21.43*	
		For >20 To 50, Deduct	*-32.15*	
		For >50, Deduct	*-49.41*	
		For Work On Slopes >2.5:1, Add	*16.66*	
32 91 13 16-0016	EA	Pine Straw Mulch Bale	6.96	
		Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
		For >100 To 250, Deduct	*-0.53*	
		For >250 To 500, Deduct	*-0.72*	
		For >500, Deduct	*-0.88*	
		For Work On Slopes >2.5:1, Add	*0.73*	
32 91 13 16-0017	EA	Wheat Straw Mulch Bale	6.62	
		Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
		For >100 To 250, Deduct	*-0.47*	
		For >250 To 500, Deduct	*-0.61*	
		For >500, Deduct	*-0.80*	
		For Work On Slopes >2.5:1, Add	*0.55*	
32 91 13 16-0018	CY	Stone/Gravel Mulch, Marble Chips	237.95	
		For >5 To 20, Deduct	*-15.16*	
		For >20 To 50, Deduct	*-22.74*	
		For >50, Deduct	*-34.63*	
		For Work On Slopes >2.5:1, Add	*13.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0019	CY	Stone Mulch, Decomposed Granite Chips	125.21	
		For >5 To 20, Deduct	*-9.52*	
		For >20 To 50, Deduct	*-14.28*	
		For >50, Deduct	*-20.54*	
		For Work On Slopes >2.5:1, Add	*13.04*	

32 91 13 16-0020 Compost Soil Amendment (AgriService) *(32 91 13 16)*

Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles.

32 91 13 16-0021	CY	Humic Compost (OIM)	78.23	
		Note: (Agri Service or Equal)		
		For Work On Slopes >2.5:1, Add	*13.04*	
		For >100 To 1,000, Deduct	*-13.69*	
		For >1,000, Deduct	*-20.87*	

32 91 13 26 Planting Beds *(32 91 13)*

Note: Not for use when installing trees and shrubs.

32 91 13 26-0001 Plant Bed Preparation *(32 91 13 26)*

Note: Not for use when installing trees and shrubs.

32 91 13 26-0002	SF	Prepare And Mix Plant Bed, Up To 8" Deep By Machine	1.03	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	*0.21*	
32 91 13 26-0003	SF	Prepare And Mix Plant Bed, 9" To 13" Deep By Machine	1.18	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	*0.24*	
32 91 13 26-0004	SF	Prepare And Mix Plant Bed, 14" To 18" Deep By Machine	1.39	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	*0.28*	
32 91 13 26-0005	SF	Prepare And Mix Plant Bed By Hand, Up To 8" Deep	4.74	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	*0.95*	
32 91 13 26-0006	SF	Prepare And Mix Plant Bed By Hand, 9" To 13" Deep	5.45	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	*1.09*	
32 91 13 26-0007	SF	Prepare And Mix Plant Bed By Hand, 14" To 18" Deep	6.40	
		Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
		For Work On Slopes >2.5:1, Add	*1.28*	

32 91 13 26-0008 Plant Bed Preparation With Humic Compost *(32 91 13 26)*

32 91 13 26-0009	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF)	1.14	
		Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
		For Work On Slopes >2.5:1, Add	*0.22*	
		For >1,000 To 5,000, Deduct	*-0.17*	
		For >5,000 To 10,000, Deduct	*-0.28*	
		For >10,000 To 20,000, Deduct	*-0.55*	
		For >20,000, Deduct	*-0.77*	
32 91 13 26-0010	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF)	1.40	
		Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
		For Work On Slopes >2.5:1, Add	*0.26*	
		For >1,000 To 5,000, Deduct	*-0.20*	
		For >5,000 To 10,000, Deduct	*-0.33*	
		For >10,000 To 20,000, Deduct	*-0.66*	
		For >20,000, Deduct	*-0.93*	
32 91 13 26-0011	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF)	1.66	
		Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
		For Work On Slopes >2.5:1, Add	*0.31*	
		For >1,000 To 5,000, Deduct	*-0.23*	
		For >5,000 To 10,000, Deduct	*-0.39*	
		For >10,000 To 20,000, Deduct	*-0.78*	
		For >20,000, Deduct	*-1.09*	

32 91 13 26-0012 Planting Pit Preparation *(32 91 13 26)*

Note: Not for use when installing trees and shrubs.

32 91 13 26-0013	CY	Excavate Planting Pit By Hand, Sandy Soil	82.03	
		Note: For use with existing planting pits.		
		For Work On Slopes >2.5:1, Add	*16.41*	
32 91 13 26-0014	CY	Excavate Planting Pit By Hand, Heavy Soil	164.07	
		Note: For use with existing planting pits.		
		For Work On Slopes >2.5:1, Add	*32.81*	
32 91 13 26-0015	CY	Excavate Planting Pit By Machine, Sandy Soil	12.66	
		Note: For use with existing planting pits.		
		For Work On Slopes >2.5:1, Add	*2.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0016	CY	Excavate Planting Pit By Machine, Heavy Soil Note: For use with existing planting pits.	16.47	
		For Work On Slopes >2.5:1, Add	*3.29*	
32 91 13 26-0017	CY	Backfill Planting Pit By Hand With Topsoil From Stockpile	72.90	
		For Work On Slopes >2.5:1, Add	*14.58*	
32 91 13 26-0018	CY	Backfill Planting Pit By Hand With Contractor Furnished Planting Mix	106.71	
		For Work On Slopes >2.5:1, Add	*13.12*	
32 91 13 26-0019	CY	Backfill Planting Pit By Machine, With Topsoil From Stockpile	6.96	
		For Work On Slopes >2.5:1, Add	*1.39*	
32 91 13 26-0020	CY	Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix	57.78	
		For Work On Slopes >2.5:1, Add	*3.34*	

32 91 13 26-0021 Weed Barrier *(32 91 13 26)*

32 91 13 26-0022	SY	Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier	1.71	
		For Work On Slopes >2.5:1, Add	*0.13*	
32 91 13 26-0023	SY	4 Oz/SY Woven, Polypropylene Weed Barrier	2.26	
		For Work On Slopes >2.5:1, Add	*0.13*	
32 91 13 26-0024	SY	5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier	2.50	
		For Work On Slopes >2.5:1, Add	*0.13*	

32 91 13 33 Soil Conditioners *(32 91 13)*

32 91 13 33-0001 Spread Soil Conditioners *(32 91 13 33)*

32 91 13 33-0002	SY	Aluminum Sulfate 1 LB/SY, Push Spreader	0.35	
32 91 13 33-0003	MSF	Aluminum Sulfate 110 LB/MSF Tractor Spreader	32.40	
32 91 13 33-0004	MSF	Fertilizer, 20 LB/MSF, Push Spreader	6.58	
32 91 13 33-0005	MSF	Fertilizer, 20 LB/MSF, Tractor Spread	2.58	
32 91 13 33-0006	MSF	Fertilizer, 20 LB/MSF, Truck Spread	4.74	
32 91 13 33-0007	SY	Pelletized Lime, 1 LB/SY, Push Spreader	0.09	
32 91 13 33-0008	MSF	Pelitized Lime, 110 LB/MSF, Tractor Spreader	6.29	
32 91 13 33-0009	SY	Perlite, 1" Deep, Push Spreader	2.94	
32 91 13 33-0010	MSF	Perlite, 1" Deep, Tractor Spreader	304.76	
32 91 13 33-0011	SY	Vermiculite, Push Spreader	2.73	
32 91 13 33-0012	MSF	Vermiculite, Tractor Spreader	297.70	
32 91 13 33-0013	SY	Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader	0.16	
32 91 13 33-0014	MSF	Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader	13.38	

32 91 13 36 Lawn Bed Preparation *(32 91 13)*

32 91 13 36-0001 Lawn Bed Preparation *(32 91 13 36)*

32 91 13 36-0002	MSF	Rake Topsoil With Machine	79.41	
32 91 13 36-0003	MSF	Rake Topsoil By Hand	65.61	
32 91 13 36-0004	MSF	Screen Loam By Hand	43.75	
32 91 13 36-0005	SY	Roll Topsoil With Machine	1.02	
32 91 13 36-0006	SY	Roll Topsoil By Hand	2.93	
32 91 13 36-0007	MSF	Removal Of Rocks And Debris With Machine	9.40	
32 91 13 36-0008	MSF	Removal Of Rocks And Debris By Hand	29.35	
32 91 13 36-0009	MSF	Root Raking And Loading, No Boulders	49.14	
		For >45 to 225, Deduct	*-34.40*	
		For >225, Deduct	*-44.23*	
32 91 13 36-0010	MSF	Root Raking And Loading, With Boulders	81.91	
		For >45 to 225, Deduct	*-57.34*	
		For >225, Deduct	*-73.72*	
32 91 13 36-0011	MSF	Up To 6" Deep Tilling Topsoil With Tractor	4.39	
32 91 13 36-0012	MSF	>6" To 12" Deep Tilling Topsoil With Tractor	8.88	
		For Work On Slopes >2.5:1, Add	*1.78*	
32 91 13 36-0013	SY	Up To 2" Deep Tilling Topsoil With Rototiller	0.70	
32 91 13 36-0014	SY	>2" To 4" Deep Tilling Topsoil With Rototiller	0.84	
32 91 13 36-0015	SY	>4" To 6" Deep Tilling Topsoil With Rototiller	1.05	
32 91 13 36-0016	LF	"V" Cut Soil For Edge Of Planting Beds	1.17	

32 91 13 36-0017 Sod Removal *(32 91 13 36)*

32 91 13 36-0018	SY	Removal Of Sod By Hand	5.53	
		For Work On Slopes >2.5:1, Add	*1.11*	
32 91 13 36-0019	SY	Removal Of Sod With Machine	0.59	
		For Work On Slopes >2.5:1, Add	*0.12*	
32 91 13 36-0020	SY	Pile Sod By Hand	3.28	
		For Work On Slopes >2.5:1, Add	*0.66*	
32 91 13 36-0021	SY	Pile Sod With Machine	1.10	
		For Work On Slopes >2.5:1, Add	*0.22*	

32 91 19 Landscape Grading *(32 91)*

32 91 19 13 Topsoil Placement and Grading *(32 91 19)*

32 91 19 13-0001 Remove And Stockpile Topsoil On Site *(32 91 19 13)*

32 91 19 13-0002	CY	Removal Of Topsoil, 4" Deep Stockpile On Site	4.59	
32 91 19 13-0003	CY	Removal Of Topsoil, 6" Deep Stockpile On Site	4.54	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 91 19 13-0004 Screening Topsoil *(32 91 19 13)*

32 91 19 13-0005	CY	Screen Topsoil With Vibrating Screen, Wet Material (Organic)	10.26	
32 91 19 13-0006	CY	Screen Topsoil With Vibrating Screen, Dry Material	6.85	

32 91 19 13-0007 Spreading Topsoil From Stockpile *(32 91 19 13)*

32 91 19 13-0008	CY	Spread Topsoil By Machine From Stockpile	7.54	
32 91 19 13-0009	CY	Spread Topsoil By Hand From Stockpile	62.61	

32 91 19 13-0010 Furnish And Place Imported Screened Topsoil *(32 91 19 13)*

Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0037 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.

32 91 19 13-0011	SY	Furnish And Place Imported Screened Topsoil, 2" Deep	3.40	
		For Unscreened, Deduct	*-0.43*	
32 91 19 13-0012	SY	Furnish And Place Imported Screened Topsoil, 4" Deep	6.52	
		For Unscreened, Deduct	*-0.86*	
32 91 19 13-0013	SY	Furnish And Place Imported Screened Topsoil, 6" Deep	9.42	
		For Unscreened, Deduct	*-1.29*	
32 91 19 13-0014	SY	Furnish And Place Imported Screened Topsoil, 9" Deep	13.58	
		For Unscreened, Deduct	*-1.94*	
32 91 19 13-0015	SY	Furnish And Place Imported Screened Topsoil, 12" Deep	17.73	
		For Unscreened, Deduct	*-2.58*	
32 91 19 13-0016	CY	Furnish And Place Imported Screened Topsoil, Over 12" Deep	48.71	
		For Unscreened, Deduct	*-7.75*	

32 91 19 13-0017 Scarify Soil For Planting Preparation *(32 91 19 13)*

Note: Ripped in multiple directions with 3" maximum clods.

32 91 19 13-0018	MSF	Up To 5,000 SF Scarify Up To 8" Soil With Machine	59.24	
32 91 19 13-0019	MSF	>5,000 To 20,000 SF Scarify Up To 8" Soil With Machine	41.46	
32 91 19 13-0020	MSF	>20,000 SF Scarify Up To 8" Soil With Machine	24.35	

32 92 Turf and Grasses *(32 90)*

32 92 16 Plugging *(32 92)*

32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep *(32 92 16)*

Note: Includes fine grade and soil preparation.

32 92 16 00-0002 6" On Center Plugging *(32 92 16 00-0001)*

32 92 16 00-0003	MSF	Plugging By Hand, 6" On Center	207.94	
32 92 16 00-0004	MSF	Plugging By Walk Behind Planter, 6" On Center	25.14	
32 92 16 00-0005	MSF	Plugging By Towed Planter, 6" On Center	17.70	

32 92 16 00-0006 9" On Center Plugging *(32 92 16 00-0001)*

32 92 16 00-0007	MSF	Plugging By Hand, 9" On Center	159.62	
32 92 16 00-0008	MSF	Plugging By Walk Behind Planter, 9" On Center	19.86	
32 92 16 00-0009	MSF	Plugging By Towed Planter, 9" On Center	13.31	

32 92 16 00-0010 12" On Center Plugging *(32 92 16 00-0001)*

32 92 16 00-0011	MSF	Plugging By Hand, 12" On Center	135.04	
32 92 16 00-0012	MSF	Plugging By Walk Behind Planter, 12" On Center	13.62	
32 92 16 00-0013	MSF	Plugging By Towed Planter, 12" On Center	8.58	

32 92 19 Seeding *(32 92)*

32 92 19 13 Mechanical Seeding *(32 92 19)*

Note: Includes fertilizing, liming, mixing, seeding and initial watering.

32 92 19 13-0001 Tractor Spreader Mechanical Seeding *(32 92 19 13)*

Note: Excludes straw.

32 92 19 13-0002	MSF	Common Bluegrass, Tractor Spreader Note: 4 LB/MSF spread rate.	38.35	
32 92 19 13-0003	MSF	Tall Fescue, Tractor Spreader Note: 5.5 LB/MSF spread rate.	31.18	
32 92 19 13-0004	MSF	Rye, Tractor Spreader Note: 10 LB/MSF spread rate.	31.69	
32 92 19 13-0005	MSF	Shade Mix, Tractor Spreader Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	34.27	
32 92 19 13-0006	MSF	Turf Mix, Tractor Spreader Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	36.12	
32 92 19 13-0007	MSF	Slope Mix, Tractor Spreader Note: 6 LB/MSF spread rate.	33.65	
32 92 19 13-0008	MSF	Utility Mix, Tractor Spreader Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	30.57	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0009	MSF	Wild Flower Mix, Tractor Spreader Note: 0.10 LB/MSF spread rate.	24.76	
32 92 19 13-0010	MSF	Crown Vetch Mix, Tractor Spreader Note: 4 LB/MSF spread rate.	70.71	
32 92 19 13-0011	MSF	Athletic Mix, Tractor Spreader Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	43.54	
32 92 19 13-0012	MSF	White Clover Mix, Tractor Spreader Note: 7 LB/MSF spread rate.	24.70	
32 92 19 13-0013	MSF	Ladino Clover Mix, Tractor Spreader Note: 7 LB/MSF spread rate.	27.17	
32 92 19 13-0014	MSF	Bermuda, Tractor Spreader Note: 10 LB/MSF spread rate.	35.70	

32 92 19 13-0015 Hydro Or Air Mechanical Seeding *(32 92 19 13)*

32 92 19 13-0016	MSF	Common Bluegrass, Hydro Or Air Seeding Note: 4 LB/MSF spread rate.	77.59	
		For Spot Areas Up To 1, Add	*85.13*	
		For >1 To 4, Add	*54.86*	
		For >4 To 7.5, Add	*37.27*	
		For >7.5 To 10, Add	*18.63*	
		For >45, Deduct	*-6.34*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0017	MSF	Tall Fescue, Hydro Or Air Seeding Note: 5.5 LB/MSF spread rate.	81.92	
		For Spot Areas Up To 1, Add	*86.87*	
		For >1 To 4, Add	*55.73*	
		For >4 To 7.5, Add	*37.70*	
		For >7.5 To 10, Add	*18.85*	
		For >45, Deduct	*-6.56*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0018	MSF	Rye, Hydro Or Air Spread Note: 10 LB/MSF spread rate.	77.77	
		For Spot Areas Up To 1, Add	*85.21*	
		For >1 To 4, Add	*54.90*	
		For >4 To 7.5, Add	*37.29*	
		For >7.5 To 10, Add	*18.64*	
		For >45, Deduct	*-6.35*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0019	MSF	Shade Mix, Hydro Or Air Seeding Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	77.59	
		For Spot Areas Up To 1, Add	*85.13*	
		For >1 To 4, Add	*54.86*	
		For >4 To 7.5, Add	*37.27*	
		For >7.5 To 10, Add	*18.63*	
		For >45, Deduct	*-6.34*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0020	MSF	Turf Mix, Hydro Or Air Seeding Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	81.92	
		For Spot Areas Up To 1, Add	*86.87*	
		For >1 To 4, Add	*55.73*	
		For >4 To 7.5, Add	*37.70*	
		For >7.5 To 10, Add	*18.85*	
		For >45, Deduct	*-6.56*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0021	MSF	Slope Mix, Hydro Or Air Seeding Note: 6 LB/MSF spread rate.	80.06	
		For Spot Areas Up To 1, Add	*86.12*	
		For >1 To 4, Add	*55.36*	
		For >4 To 7.5, Add	*37.51*	
		For >7.5 To 10, Add	*18.76*	
		For >45, Deduct	*-6.46*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0022	MSF	Utility Mix, Hydro Or Air Seeding Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	78.57	
		For Spot Areas Up To 1, Add	*85.53*	
		For >1 To 4, Add	*55.06*	
		For >4 To 7.5, Add	*37.37*	
		For >7.5 To 10, Add	*18.68*	
		For >45, Deduct	*-6.39*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0023	MSF	Wild Flower Mix, Hydro Or Air Seeding Note: 0.10 LB/MSF spread rate.	73.76	
		For Spot Areas Up To 1, Add	*83.60*	
		For >1 To 4, Add	*54.10*	
		For >4 To 7.5, Add	*36.88*	
		For >7.5 To 10, Add	*18.44*	
		For >45, Deduct	*-6.15*	
		For Tackifier, Add	*0.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0024	MSF	Crown Vetch Mix, Hydro Or Air Seeding	117.12	
		Note: 4 LB/MSF spread rate.		
		For Spot Areas Up To 1, Add	*100.95*	
		For >1 To 4, Add	*62.77*	
		For >4 To 7.5, Add	*41.22*	
		For >7.5 To 10, Add	*20.61*	
		For >45, Deduct	*-8.32*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0025	MSF	Athletic Mix, Hydro Or Air Seeding	103.55	
		Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
		For Spot Areas Up To 1, Add	*95.52*	
		For >1 To 4, Add	*60.05*	
		For >4 To 7.5, Add	*39.86*	
		For >7.5 To 10, Add	*19.93*	
		For >45, Deduct	*-7.64*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0026	MSF	White Clover Mix, Hydro Or Air Seeding	67.89	
		Note: 7 LB/MSF spread rate.		
		For Spot Areas Up To 1, Add	*81.25*	
		For >1 To 4, Add	*52.92*	
		For >4 To 7.5, Add	*36.30*	
		For >7.5 To 10, Add	*18.15*	
		For >45, Deduct	*-5.85*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0027	MSF	Ladino Clover Mix, Hydro Or Air Seeding	75.12	
		Note: 7 LB/MSF spread rate.		
		For Spot Areas Up To 1, Add	*84.15*	
		For >1 To 4, Add	*54.37*	
		For >4 To 7.5, Add	*37.02*	
		For >7.5 To 10, Add	*18.51*	
		For >45, Deduct	*-6.22*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0028	MSF	60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread	78.83	
		Note: 4 LB/MSF spread rate.		
		For Spot Areas Up To 1, Add	*85.63*	
		For >1 To 4, Add	*55.11*	
		For >4 To 7.5, Add	*37.39*	
		For >7.5 To 10, Add	*18.70*	
		For >45, Deduct	*-6.40*	
		For Tackifier, Add	*0.92*	
32 92 19 13-0029	MSF	2,500 LB/Acre, High Performance - Flexible Growth Medium	88.24	
		Note: Applied with seed. Excludes seed.		
		For >45, Deduct	*-5.64*	
32 92 19 13-0030	MSF	3,000 LB/Acre, High Performance - Flexible Growth Medium	102.22	
		Note: Applied with seed. Excludes seed.		
		For >45, Deduct	*-6.40*	
32 92 19 13-0031	MSF	3,500 LB/Acre, High Performance - Flexible Growth Medium	116.25	
		Note: Applied with seed. Excludes seed.		
		For >45, Deduct	*-7.17*	
32 92 19 13-0032	MSF	4,000 LB/Acre, High Performance - Flexible Growth Medium	130.32	
		Note: Applied with seed. Excludes seed.		
		For >45, Deduct	*-7.94*	
32 92 19 13-0033	MSF	4,500 LB/Acre, High Performance - Flexible Growth Medium	144.47	
		Note: Applied with seed. Excludes seed.		
		For >45, Deduct	*-8.72*	

32 92 19 19 Seeding by Hand *(32 92 19)*

Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.

32 92 19 19-0001 Push Spreader Or Hand Seeding *(32 92 19 19)*

Note: Excludes straw.

32 92 19 19-0002	MSF	Common Bluegrass, Push Spreader Or Hand	99.07	
		Note: 4 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-7.00*	
		For >20 To 45, Deduct	*-13.58*	
		For >45, Deduct	*-22.21*	
32 92 19 19-0003	MSF	Tall Fescue, Push Spreader Or Hand	91.90	
		Note: 5.5 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.65*	
		For >20 To 45, Deduct	*-13.04*	
		For >45, Deduct	*-21.49*	
32 92 19 19-0004	MSF	Rye, Push Spreader Or Hand	92.41	
		Note: 10 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.67*	
		For >20 To 45, Deduct	*-13.08*	
		For >45, Deduct	*-21.54*	
32 92 19 19-0005	MSF	Shade Mix, Push Spreader Or Hand	94.99	
		Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
		For >5 To 20, Deduct	*-6.80*	
		For >20 To 45, Deduct	*-13.28*	
		For >45, Deduct	*-21.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0006	MSF	Turf Mix, Push Spreader Or Hand	96.84	
		Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
		For >5 To 20, Deduct	*-6.89*	
		For >20 To 45, Deduct	*-13.41*	
		For >45, Deduct	*-21.99*	
32 92 19 19-0007	MSF	Slope Mix, Push Spreader Or Hand	94.37	
		Note: 6 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.77*	
		For >20 To 45, Deduct	*-13.23*	
		For >45, Deduct	*-21.74*	
32 92 19 19-0008	MSF	Utility Mix, Push Spreader Or Hand	91.29	
		Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
		For >5 To 20, Deduct	*-6.62*	
		For >20 To 45, Deduct	*-13.00*	
		For >45, Deduct	*-21.43*	
32 92 19 19-0009	MSF	Wild Flower Mix, Push Spreader Or Hand	85.48	
		Note: 0.10 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.32*	
		For >20 To 45, Deduct	*-12.56*	
		For >45, Deduct	*-20.85*	
32 92 19 19-0010	MSF	Crown Vetch Mix, Push Spreader Or Hand	131.43	
		Note: 4 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-8.62*	
		For >20 To 45, Deduct	*-16.01*	
		For >45, Deduct	*-25.45*	
32 92 19 19-0011	MSF	Athletic Mix, Push Spreader Or Hand	104.26	
		Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
		For >5 To 20, Deduct	*-7.26*	
		For >20 To 45, Deduct	*-13.97*	
		For >45, Deduct	*-22.73*	
32 92 19 19-0012	MSF	White Clover Mix, Push Spreader Or Hand	85.42	
		Note: 7 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.32*	
		For >20 To 45, Deduct	*-12.56*	
		For >45, Deduct	*-20.85*	
32 92 19 19-0013	MSF	Ladino Clover Mix, Push Spreader Or Hand	87.89	
		Note: 7 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.45*	
		For >20 To 45, Deduct	*-12.74*	
		For >45, Deduct	*-21.09*	
32 92 19 19-0014	MSF	100% Kentucky Bluegrass, Push Spreader Or Hand	100.24	
		Note: 3.3 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-7.06*	
		For >20 To 45, Deduct	*-13.67*	
		For >45, Deduct	*-22.33*	
32 92 19 19-0015	MSF	70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand	96.84	
		Note: 3.3 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.89*	
		For >20 To 45, Deduct	*-13.41*	
		For >45, Deduct	*-21.99*	
32 92 19 19-0016	MSF	50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand	94.37	
		Note: 3.3 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.77*	
		For >20 To 45, Deduct	*-13.23*	
		For >45, Deduct	*-21.74*	
32 92 19 19-0017	MSF	50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand	99.31	
		Note: 4.4 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-7.02*	
		For >20 To 45, Deduct	*-13.60*	
		For >45, Deduct	*-22.23*	
32 92 19 19-0018	MSF	60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand	95.61	
		Note: 3.3 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.83*	
		For >20 To 45, Deduct	*-13.32*	
		For >45, Deduct	*-21.86*	
32 92 19 19-0019	MSF	40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand	96.84	
		Note: 3.3 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.89*	
		For >20 To 45, Deduct	*-13.41*	
		For >45, Deduct	*-21.99*	
32 92 19 19-0020	MSF	Bermuda, Push Spreader Or Hand	96.42	
		Note: 10 LB/MSF spread rate.		
		For >5 To 20, Deduct	*-6.87*	
		For >20 To 45, Deduct	*-13.38*	
		For >45, Deduct	*-21.95*	

32 92 23 Sodding *(32 92)*

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

32 92 23 00-0001 Bermuda Sod *(32 92 23)*

32 92 23 00-0002	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Level Ground	1,281.54	
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground	1,092.62	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground	930.98	
32 92 23 00-0005	MSF	>8,000 SF, Bermuda Sod, Installed On Level Ground	820.89	
32 92 23 00-0006	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,604.22	
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,365.95	
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,119.54	
32 92 23 00-0009	MSF	>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	981.24	

32 92 23 00-0010 Zoysia Sod *(32 92 23)*

32 92 23 00-0011	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Level Ground	1,804.34	
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground	1,483.23	
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground	1,256.49	
32 92 23 00-0014	MSF	>8,000 SF, Zoysia Sod, Installed On Level Ground	1,081.29	
32 92 23 00-0015	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	2,125.03	
32 92 23 00-0016	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	1,756.56	
32 92 23 00-0017	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	1,445.05	
32 92 23 00-0018	MSF	>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	1,241.64	

32 92 23 00-0019 Tall Fescue Sod *(32 92 23)*

32 92 23 00-0020	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground	1,780.23	
		For Hybrid Fescue "Marathon", Add	*110.56*	
32 92 23 00-0021	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground	1,465.14	
		For Hybrid Fescue "Marathon", Add	*83.26*	
32 92 23 00-0022	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground	1,241.42	
		For Hybrid Fescue "Marathon", Add	*69.62*	
32 92 23 00-0023	MSF	>8,000 SF, Tall Fescue Sod, Installed On Level Ground	1,069.24	
		For Hybrid Fescue "Marathon", Add	*55.97*	
32 92 23 00-0024	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,100.92	
		For Hybrid Fescue "Marathon", Add	*110.56*	
32 92 23 00-0025	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	1,738.47	
		For Hybrid Fescue "Marathon", Add	*83.26*	
32 92 23 00-0026	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	1,429.98	
		For Hybrid Fescue "Marathon", Add	*69.62*	
32 92 23 00-0027	MSF	>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	1,229.59	
		For Hybrid Fescue "Marathon", Add	*55.97*	

32 92 23 00-0028 Centipede Sod *(32 92 23)*

32 92 23 00-0029	MSF	Up To 1,000 SF, Centipede Sod, Installed On Level Ground	1,603.01	
32 92 23 00-0030	MSF	>1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground	1,332.23	
32 92 23 00-0031	MSF	>4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground	1,130.66	
32 92 23 00-0032	MSF	>8,000 SF, Centipede Sod, Installed On Level Ground	980.63	
32 92 23 00-0033	MSF	Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,923.70	
32 92 23 00-0034	MSF	>1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,605.56	
32 92 23 00-0035	MSF	>4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,319.22	
32 92 23 00-0036	MSF	>8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,140.98	

32 92 23 00-0037 Kentucky Blue Grass Sod *(32 92 23)*

32 92 23 00-0038	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,532.01	
32 92 23 00-0039	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,278.98	
32 92 23 00-0040	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,086.28	
32 92 23 00-0041	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	945.13	
32 92 23 00-0042	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,852.70	
32 92 23 00-0043	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,552.31	
32 92 23 00-0044	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,274.84	
32 92 23 00-0045	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,105.48	

32 93 Plants *(32 90)*

32 93 13 Ground Covers *(32 93)*

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.

32 93 13 00-0001 Ornamental Grasses *(32 93 13)*

32 93 13 00-0002	EA	1 Gallon, Cortaderia selloana - Pampas Grass	19.62	
32 93 13 00-0003	EA	2 Gallon, Cortaderia selloana - Pampas Grass	36.27	
32 93 13 00-0004	EA	3 Gallon, Cortaderia selloana - Pampas Grass	65.91	
32 93 13 00-0005	EA	5 Gallon, Cortaderia selloana - Pampas Grass	119.96	
32 93 13 00-0006	EA	1 Gallon, Distichlis spicata - Saltgrass	7.15	
32 93 13 00-0007	EA	5 Gallon, Distichlis spicata - Saltgrass	18.70	
32 93 13 00-0008	EA	1 Quart, Imperata cylindrica - Japanese Blood Grass	15.02	
32 93 13 00-0009	EA	1 Gallon, Imperata cylindrica - Japanese Blood Grass	19.97	
32 93 13 00-0010	EA	2 Gallon, Imperata cylindrica - Japanese Blood Grass	21.37	
32 93 13 00-0011	EA	1 Quart, Koeleria glauca - Blue Hair Grass	14.98	
32 93 13 00-0012	EA	1 Gallon, Koeleria glauca - Blue Hair Grass	19.97	
32 93 13 00-0013	EA	3 Gallon, Koeleria glauca - Blue Hair Grass	48.31	
32 93 13 00-0014	EA	1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	18.96	
32 93 13 00-0015	EA	3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	24.57	
32 93 13 00-0016	EA	5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	46.97	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0017	EA	1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	17.60	
32 93 13 00-0018	EA	3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	27.66	
32 93 13 00-0019	EA	5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	47.34	
32 93 13 00-0020	EA	1 Gallon, Monathochloe littoralis - Shore Grass	8.94	
32 93 13 00-0021	EA	1 Quart, Pennisetum setaceum - Fountain Grass	16.38	
32 93 13 00-0022	EA	1 Gallon, Pennisetum setaceum - Fountain Grass	41.67	
32 93 13 00-0023	EA	3 Gallon, Pennisetum setaceum - Fountain Grass	54.94	
32 93 13 00-0024	EA	1 Gallon, Saccharum ravennae - Ravenna Grass	51.86	
32 93 13 00-0025	EA	3 Gallon, Saccharum ravennae - Ravenna Grass	58.26	
32 93 13 00-0026	EA	7 Gallon, Saccharum ravennae - Ravenna Grass	96.11	
32 93 13 00-0027	EA	1 Gallon, Spartina pectinata - Variegated Cord Grass	28.16	
32 93 13 00-0028	EA	2 Gallon, Spartina pectinata - Variegated Cord Grass	42.15	
32 93 13 00-0029	EA	1 Quart, Stipa gigantea - Giant Feather Grass	21.50	
32 93 13 00-0030	EA	1 Gallon, Stipa gigantea - Giant Feather Grass	29.95	
32 93 13 00-0031	EA	1 Gallon, Triglochin maritima - Arrow Grass	5.37	

32 93 13 00-0032 Ground Covers *(32 93 13)*

32 93 13 00-0033	EA	1 Gallon Agave Attenuata - Century Plant	7.87	
32 93 13 00-0034	EA	5 Gallon Agave Attenuata - Century Plant	21.21	
32 93 13 00-0035	EA	15 Gallon Agave Attenuata - Century Plant	70.13	
32 93 13 00-0036	EA	1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac	6.71	
32 93 13 00-0037	EA	5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac	18.68	
32 93 13 00-0038	EA	1 Gallon Ceanothus 'Yankee Point' - Wild Lilac	6.71	
32 93 13 00-0039	EA	5 Gallon Ceanothus 'Yankee Point' - Wild Lilac	17.45	
32 93 13 00-0040	EA	1 Gallon Dietes Vegata - Fortnight Lily	5.88	
32 93 13 00-0041	EA	5 Gallon Dietes Vegata - Fortnight Lily	14.50	
32 93 13 00-0042	EA	1 Gallon Juncus Patens ' Elk Blue' - California Gray Rush	10.93	
32 93 13 00-0043	EA	5 Gallon Juncus Patens ' Elk Blue' - California Gray Rush	28.72	
32 93 13 00-0044	EA	4" Pot Miscanthus 'Morning Light' - NCN	8.20	
32 93 13 00-0045	EA	20 Count Flat Miscanthus 'Morning Light' - NCN	120.90	
32 93 13 00-0046	EA	1 Gallon Nassella Tenuissima - Mexican Feather Grass	10.93	
32 93 13 00-0047	EA	1 Gallon Trachelospermum Jasminoides - Star Jasmine	5.94	
32 93 13 00-0048	EA	5 Gallon Trachelospermum Jasminoides - Star Jasmine	14.89	
32 93 13 00-0049	EA	1 Gallon Westringia Fruticosa - Coast Rosemary	5.88	
32 93 13 00-0050	EA	5 Gallon Westringia Fruticosa - Coast Rosemary	14.50	
32 93 13 00-0051	EA	15 Gallon Westringia Fruticosa - Coast Rosemary	59.52	
32 93 13 00-0052	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge	19.36	
32 93 13 00-0053	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge	25.21	
32 93 13 00-0054	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper	31.91	
32 93 13 00-0055	EA	1 Quart Waldsteinia ternata - Barren Strawberry	5.48	
32 93 13 00-0056	EA	1 Gallon Waldsteinia ternata - Barren Strawberry	13.15	
32 93 13 00-0057	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	17.90	
32 93 13 00-0058	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	33.98	
32 93 13 00-0059	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	59.92	
32 93 13 00-0060	EA	1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope	6.13	
32 93 13 00-0061	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	11.33	
32 93 13 00-0062	EA	5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	39.82	
32 93 13 00-0063	EA	1 Gallon Juniperus horizontalis "Wiltoni' - Blue Rug Juniper	14.87	
32 93 13 00-0064	EA	4" Pot Parthenocissus tricuspidata - Boston Ivy	7.31	
32 93 13 00-0065	EA	1 Gallon Parthenocissus tricuspidata - Boston Ivy	16.66	
32 93 13 00-0066	EA	5 Gallon Parthenocissus tricuspidata - Boston Ivy	45.59	
32 93 13 00-0067	EA	3 Gallon Bougainvillea spectabilis - Bougainvillea	19.16	
32 93 13 00-0068	EA	1 Quart Iberis sempervirens - Candytuft	5.48	
32 93 13 00-0069	EA	1 Gallon Iberis sempervirens - Candytuft	13.15	
32 93 13 00-0070	EA	1 Gallon Gelsemium sempervirens - Carolina Jessamine	15.78	
32 93 13 00-0071	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine	56.99	
32 93 13 00-0072	EA	3" Pot Ajuga reptans - Carpet Bugle	3.29	
32 93 13 00-0073	EA	1 Quart Ajuga reptans - Carpet Bugle	5.48	
32 93 13 00-0074	EA	1 Gallon Ajuga reptans - Carpet Bugle	13.15	
32 93 13 00-0075	EA	24 Plant Flat Ajuga reptans - Carpet Bugle	56.63	
32 93 13 00-0076	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine	13.15	
32 93 13 00-0077	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine	56.99	
32 93 13 00-0078	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine	17.17	
32 93 13 00-0079	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine	38.00	
32 93 13 00-0080	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine	56.99	
32 93 13 00-0081	EA	1 Gallon Ranunculaceae - Clematis Varieties	18.88	
32 93 13 00-0082	EA	2 Gallon Ranunculaceae - Clematis Varieties	34.91	
32 93 13 00-0083	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea	23.75	
32 93 13 00-0084	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea	44.57	
32 93 13 00-0085	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea	73.07	
32 93 13 00-0086	EA	4" Pot Lantana camera - Common Lantana	3.29	
32 93 13 00-0087	EA	1 Gallon Lantana camera - Common Lantana	9.50	
32 93 13 00-0088	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	11.33	
32 93 13 00-0089	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	37.26	
32 93 13 00-0090	EA	2 Quart Lysimachia nummularia - Creeping Jenny	5.48	
32 93 13 00-0091	EA	1 Gallon Lysimachia nummularia - Creeping Jenny	10.60	
32 93 13 00-0092	EA	2 Quart Liriope spicata - Creeping Lilytuft	9.50	
32 93 13 00-0093	EA	1 Gallon Liriope spicata - Creeping Lilytuft	17.17	
32 93 13 00-0094	EA	5 Gallon Liriope spicata - Creeping Lilytuft	36.17	
32 93 13 00-0095	EA	Bare Root Liriope spicata - Creeping Liriope	2.40	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0096	EA	3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	3.29	
32 93 13 00-0097	EA	1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	13.15	
32 93 13 00-0098	EA	2-1/4" Pot Securigera varia - Crown Vetch	2.19	
32 93 13 00-0099	EA	50 Plant Flat Securigera varia - Crown Vetch	74.16	
32 93 13 00-0100	EA	1 Quart Senecio cineraria - Dusty Miller	5.48	
32 93 13 00-0101	EA	1 Gallon Senecio cineraria - Dusty Miller	13.15	
32 93 13 00-0102	EA	2 Gallon Aristolochia macrophylla - Dutchman's Pipe	45.67	
32 93 13 00-0103	EA	5 Gallon Aristolochia macrophylla - Dutchman's Pipe	83.66	
32 93 13 00-0104	EA	1 Gallon Ilex cornuta - Dwarf Holly	9.92	
32 93 13 00-0105	EA	3 Gallon Ilex cornuta - Dwarf Holly	21.26	
32 93 13 00-0106	EA	3 Gallon Rhaphiolepis umbellata 'Minor' - Dwarf Indian Hawthorn	21.26	
32 93 13 00-0107	EA	1 Gallon Tradescantia spathacea - Dwarf Oyster Plant	7.09	
32 93 13 00-0108	EA	2" To 3" Pot Hedera helix - English Ivy	3.29	
32 93 13 00-0109	EA	12" To 15" Runners Hedera helix - English Ivy	5.48	
32 93 13 00-0110	EA	1 Gallon Hedera helix - English Ivy	13.15	
32 93 13 00-0111	EA	50 Plant Flat Hedera helix - English Ivy	75.99	
32 93 13 00-0112	EA	4" Pot Lavandula angustifolia - English Lavender	4.75	
32 93 13 00-0113	EA	1 Quart Lavandula angustifolia - English Lavender	9.13	
32 93 13 00-0114	EA	1 Gallon Lavandula angustifolia - English Lavender	14.98	
32 93 13 00-0115	EA	1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	14.25	
32 93 13 00-0116	EA	2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	28.50	
32 93 13 00-0117	EA	1 Quart Arundo donax - Giant Reed	17.54	
32 93 13 00-0118	EA	1 Gallon Arundo donax - Giant Reed	25.21	
32 93 13 00-0119	EA	1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	14.98	
32 93 13 00-0120	EA	2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	28.50	
32 93 13 00-0121	EA	1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	19.36	
32 93 13 00-0122	EA	1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	29.23	
32 93 13 00-0123	EA	3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	3.29	
32 93 13 00-0124	EA	1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	14.98	
32 93 13 00-0125	EA	2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	28.50	
32 93 13 00-0126	EA	1 Gallon Hardenbergia violacea - Happy Wanderer	13.15	
32 93 13 00-0127	EA	5 Gallon Hardenbergia violacea - Happy Wanderer	43.84	
32 93 13 00-0128	EA	3 Gallon Hibiscus, Assorted Colors	17.13	
32 93 13 00-0129	EA	1 Gallon Acorus gramineus - Japanese Sweet Flag	13.70	
32 93 13 00-0130	EA	1 Gallon Jasminum volubile - Wax Jasmine	6.90	
32 93 13 00-0131	EA	1 Gallon Jasminum volubile - Wax Jasmine	17.13	
32 93 13 00-0132	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	8.61	
32 93 13 00-0133	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	19.16	
32 93 13 00-0134	EA	1 Gallon Cissus antarctica - Kangaroo Vine	10.60	
32 93 13 00-0135	EA	5 Gallon Cissus antarctica - Kangaroo Vine	33.25	
32 93 13 00-0136	EA	1 Quart Stachys byzantina - Lamb's Ear	5.48	
32 93 13 00-0137	EA	1 Quart Stachys byzantina - Lamb's Ear	13.15	
32 93 13 00-0138	EA	1 Gallon Lantana spp. Various Colors	7.75	
32 93 13 00-0139	EA	1 Gallon Lantana sellowiana - Trailing Lantana	5.10	
32 93 13 00-0140	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	10.60	
32 93 13 00-0141	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	38.00	
32 93 13 00-0142	EA	1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	7.75	
32 93 13 00-0143	EA	1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	9.78	
32 93 13 00-0144	EA	3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	15.64	
32 93 13 00-0145	EA	1 Quart Moss Phlox, Creeping Phlox	5.48	
32 93 13 00-0146	EA	1 Gallon Moss Phlox, Creeping Phlox	13.15	
32 93 13 00-0147	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern	6.90	
32 93 13 00-0148	EA	4" Pot Ophiopogon Japonicus - Mondo grass	3.29	
32 93 13 00-0149	EA	1 Gallon Ophiopogon Japonicus - Mondo grass	13.15	
32 93 13 00-0150	EA	5 Gallon Ophiopogon Japonicus - Mondo grass	30.32	
32 93 13 00-0151	EA	2' To 3' High Oregon Holly-Grape	15.18	
32 93 13 00-0152	EA	1 Gallon Pachysandra terminalis - Pachysandra	19.78	
32 93 13 00-0153	EA	2-1/4" Pot Vinca minor - Periwinkle	1.83	
32 93 13 00-0154	EA	4" Pot Vinca minor - Periwinkle	5.48	
32 93 13 00-0155	EA	Bare Root Vinca minor - Periwinkle	1.83	
32 93 13 00-0156	EA	1 Quart Nepeta mussinii - Persian Catmint	5.48	
32 93 13 00-0157	EA	1 Gallon Nepeta mussinii - Persian Catmint	11.33	
32 93 13 00-0158	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma	9.13	
32 93 13 00-0159	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma	33.25	
32 93 13 00-0160	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper	14.98	
32 93 13 00-0161	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper	32.15	
32 93 13 00-0162	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper	47.49	
32 93 13 00-0163	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	13.04	
32 93 13 00-0164	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	33.80	
32 93 13 00-0165	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	56.63	
32 93 13 00-0166	EA	1 Gallon Tradescantia spathacea - Rhoeo Discolor "Dwarf"	6.90	
32 93 13 00-0167	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	7.67	
32 93 13 00-0168	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	13.70	
32 93 13 00-0169	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	21.37	
32 93 13 00-0170	EA	1 Gallon Hymenocallis latifolia - Spider Lily	8.50	
32 93 13 00-0171	EA	3 Gallon Hymenocallis latifolia - Spider Lily	22.68	
32 93 13 00-0172	EA	1 Quart Hypericum perforatum - St. John's Wort	5.48	
32 93 13 00-0173	EA	1 Gallon Hypericum perforatum - St. John's Wort	13.15	
32 93 13 00-0174	EA	5 Gallon Hypericum perforatum - St. John's Wort	33.98	
32 93 13 00-0175	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum	46.24	
32 93 13 00-0176	EA	1 Gallon Campsis radicans - Trumpet Creeper	20.09	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0177	EA	2 Gallon Campsis radicans - Trumpet Creeper	30.32	
32 93 13 00-0178	EA	5 Gallon Campsis radicans - Trumpet Creeper	73.07	
32 93 13 00-0179	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle	1.83	
32 93 13 00-0180	EA	4" Pot Vinca major - Variegated Greater Periwinkle	5.48	
32 93 13 00-0181	EA	Bare Root Vinca major - Variegated Greater Periwinkle	1.83	
32 93 13 00-0182	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge	9.86	
32 93 13 00-0183	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge	13.70	
32 93 13 00-0184	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge	21.37	
32 93 13 00-0185	EA	1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf	14.98	
32 93 13 00-0186	EA	2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena	6.94	
32 93 13 00-0187	EA	1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena	10.60	
32 93 13 00-0188	EA	48 Plant Flat Vinca minor - Lesser Periwinkle	65.12	
32 93 13 00-0189	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper	3.29	
32 93 13 00-0190	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper	17.17	
32 93 13 00-0191	EA	1 Gallon Jasminum polyanthum - Winter Jasmine	13.15	
32 93 13 00-0192	EA	2 Gallon Jasminum polyanthum - Winter Jasmine	26.30	
32 93 13 00-0193	EA	5 Gallon Jasminum polyanthum - Winter Jasmine	45.67	
32 93 13 00-0194	EA	1 Gallon Cistaceae - Wrinkleleaf Rock Rose	10.60	
32 93 13 00-0195	EA	5 Gallon Cistaceae - Wrinkleleaf Rock Rose	36.17	
32 93 13 00-0196	EA	1 Gallon Acmispon galaber - Common Deerweed	9.58	
32 93 13 00-0197	EA	1 Gallon Acacia redolens - Bank Catclaw	3.97	
32 93 13 00-0198	EA	5 Gallon Acacia redolens - Bank Catclaw	12.31	
32 93 13 00-0199	EA	15 Gallon Acacia redolens - Bank Catclaw	47.89	
32 93 13 00-0200	EA	1 Gallon Achillea filipendulina - Fernleaf Yarrow	5.88	
32 93 13 00-0201	EA	1 Gallon Achillea millefolium - Common Yarrow	5.34	
32 93 13 00-0202	EA	5 Gallon Achillea millefolium - Common Yarrow	16.42	
32 93 13 00-0203	EA	1 Gallon Achillea millefolium 'Paprika' - Red Yarrow	5.88	
32 93 13 00-0204	EA	1 Gallon Achillea 'Moonshine' - Yellow yarrow	5.88	
32 93 13 00-0205	EA	1 Gallon Agave americana - Century Plant	8.07	
32 93 13 00-0206	EA	5 Gallon Agave americana - Century Plant	21.89	
32 93 13 00-0207	EA	15 Gallon Agave americana - Century Plant	67.05	
32 93 13 00-0208	EA	24" Box Agave americana - Century Plant	239.45	
32 93 13 00-0209	EA	1 Gallon Agave vilmoriniana - Octopus Agave	8.07	
32 93 13 00-0210	EA	5 Gallon Agave vilmoriniana - Octopus Agave	21.89	
32 93 13 00-0211	EA	15 Gallon Agave vilmoriniana - Octopus Agave	67.05	
32 93 13 00-0212	EA	24" Box Agave vilmoriniana - Octopus Agave	239.45	
32 93 13 00-0213	EA	5 Gallon Nolina parryi - Giant Nolina	21.89	

32 93 23 Plants and Bulbs *(32 93)*

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials *(32 93 23)*

32 93 23 00-0002	EA	2 Quart Assorted Daylilies	10.59	
32 93 23 00-0003	EA	1 Gallon Assorted Daylilies	14.98	
32 93 23 00-0004	EA	2 Gallon Assorted Daylilies	24.84	
32 93 23 00-0005	EA	1 Quart Azure Penstemon	5.48	
32 93 23 00-0006	EA	1 Gallon Azure Penstemon	13.70	
32 93 23 00-0007	EA	1 Quart Balloon Flower	5.48	
32 93 23 00-0008	EA	1 Gallon Balloon Flower	13.70	
32 93 23 00-0009	EA	1 Quart Black-eyed Susan	5.48	
32 93 23 00-0010	EA	1 Gallon Black-eyed Susan	13.70	
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan	17.72	
32 93 23 00-0012	EA	1 Quart Blackberry Lily	5.48	
32 93 23 00-0013	EA	1 Gallon Blackberry Lily	13.70	
32 93 23 00-0014	EA	1 Quart Blank Flower	5.48	
32 93 23 00-0015	EA	1 Gallon Blank Flower	12.60	
32 93 23 00-0016	EA	2 Gallon Blank Flower	17.72	
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather	5.48	
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather	13.70	
32 93 23 00-0019	EA	1 Quart Bloodred Geranium	9.32	
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium	15.71	
32 93 23 00-0021	EA	1 Quart Blue Plumbago	5.48	
32 93 23 00-0022	EA	1 Gallon Blue Plumbago	13.70	
32 93 23 00-0023	EA	1 Quart Blue Star	9.86	
32 93 23 00-0024	EA	1 Gallon Blue Star	15.71	
32 93 23 00-0025	EA	1 Quart Cardinal Flower	5.48	
32 93 23 00-0026	EA	1 Gallon Cardinal Flower	13.70	
32 93 23 00-0027	EA	4" Pot Columbine	3.29	
32 93 23 00-0028	EA	1 Quart Columbine	5.48	
32 93 23 00-0029	EA	1 Gallon Columbine	13.70	
32 93 23 00-0030	EA	1 Quart Common Globeflower	5.48	
32 93 23 00-0031	EA	1 Gallon Common Globeflower	13.70	
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink	5.48	
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink	13.70	
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland'	19.73	
32 93 23 00-0035	EA	1 Quart Diploid	6.94	
32 93 23 00-0036	EA	1 Gallon Diploid	15.71	
32 93 23 00-0037	EA	3 Gallon Diploid	27.04	
32 93 23 00-0038	EA	4" Pot Dune Sunflower	7.82	
32 93 23 00-0039	EA	1 Quart Evans Begonia	9.86	
32 93 23 00-0040	EA	1 Gallon Evans Begonia	17.72	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0041	EA	1 Quart False Dragonhead	5.48	
32 93 23 00-0042	EA	1 Gallon False Dragonhead	13.70	
32 93 23 00-0043	EA	1 Quart False Spirea	5.48	
32 93 23 00-0044	EA	1 Gallon False Spirea	17.72	
32 93 23 00-0045	EA	3 Gallon False Spirea	24.48	
32 93 23 00-0046	EA	2 Quart False Sunflower	8.77	
32 93 23 00-0047	EA	1 Gallon False Sunflower	13.70	
32 93 23 00-0048	EA	2 Gallon False Sunflower	17.72	
32 93 23 00-0049	EA	1 Gallon Foxglove	12.60	
32 93 23 00-0050	EA	2 Gallon Foxglove	17.72	
32 93 23 00-0051	EA	3 Gallon Foxglove	25.57	
32 93 23 00-0052	EA	1 Gallon Francee Hostas	22.19	
32 93 23 00-0053	EA	1 Quart Garden Phlox	5.48	
32 93 23 00-0054	EA	1 Gallon Garden Phlox	13.70	
32 93 23 00-0055	EA	2 Quart Golden Groundsel	11.69	
32 93 23 00-0056	EA	2 Gallon Golden Groundsel	23.57	
32 93 23 00-0057	EA	1 Quart Golden Star	5.48	
32 93 23 00-0058	EA	1 Gallon Golden Star	13.70	
32 93 23 00-0059	EA	1 Quart Goldenrod	5.48	
32 93 23 00-0060	EA	1 Gallon Goldenrod	13.70	
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylillies	25.51	
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy	3.29	
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy	5.48	
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy	13.70	
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum	4.75	
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum	7.86	
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum	12.60	
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony	19.55	
32 93 23 00-0069	EA	2 Gallon Herbaceous Peony	31.24	
32 93 23 00-0070	EA	3 Gallon Herbaceous Peony	41.10	
32 93 23 00-0071	EA	4" Pot Japanese Anemone	3.29	
32 93 23 00-0072	EA	1 Quart Japanese Anemone	9.86	
32 93 23 00-0073	EA	2 Gallon Japanese Anemone	17.72	
32 93 23 00-0074	EA	2" Pot Japanese Spurge	1.95	
32 93 23 00-0075	EA	6" Pot Japanese Spurge	2.92	
32 93 23 00-0076	EA	1 Gallon Japanese Spurge	12.59	
32 93 23 00-0077	EA	1 Quart Oriental Poppy	7.86	
32 93 23 00-0078	EA	1 Gallon Oriental Poppy	15.71	
32 93 23 00-0079	EA	48 Plant Flat Pachysandra terminalis	65.12	
32 93 23 00-0080	EA	1 Gallon Pacific Coast Iris	10.78	
32 93 23 00-0081	EA	3 Gallon Pacific Coast Iris	20.46	
32 93 23 00-0082	EA	1 Gallon Palace Purple Coral Bells	20.74	
32 93 23 00-0083	EA	4" Pot Perennial Salvia	3.29	
32 93 23 00-0084	EA	1 Quart Perennial Salvia	5.48	
32 93 23 00-0085	EA	1 Gallon Perennial Salvia	13.70	
32 93 23 00-0086	EA	1 Quart Pincushion Flower	5.48	
32 93 23 00-0087	EA	1 Gallon Pincushion Flower	13.70	
32 93 23 00-0088	EA	2 Quart Plantain Lily	10.59	
32 93 23 00-0089	EA	1 Gallon Plantain Lily	14.98	
32 93 23 00-0090	EA	2 Gallon Plantain Lily	24.84	
32 93 23 00-0091	EA	3 Gallon Plantain Lily	46.95	
32 93 23 00-0092	EA	2 Quart Purple Coneflower	9.86	
32 93 23 00-0093	EA	1 Gallon Purple Coneflower	13.70	
32 93 23 00-0094	EA	2 Gallon Purple Coneflower	17.72	
32 93 23 00-0095	EA	1 Quart Purple Loosestrife	5.48	
32 93 23 00-0096	EA	1 Gallon Purple Loosestrife	13.70	
32 93 23 00-0097	EA	1 Quart Rose Mallow	10.78	
32 93 23 00-0098	EA	2 Gallon Rose Mallow	19.55	
32 93 23 00-0099	EA	3 Gallon Rose Mallow	33.43	
32 93 23 00-0100	EA	1 Gallon Autumn Joy Sedum	20.89	
32 93 23 00-0101	EA	1 Quart Siberian Iris	9.32	
32 93 23 00-0102	EA	2 Gallon Siberian Iris	17.72	
32 93 23 00-0103	EA	3 Gallon Siberian Iris	24.48	
32 93 23 00-0104	EA	1 Quart Speedwell	5.48	
32 93 23 00-0105	EA	1 Gallon Speedwell	13.70	
32 93 23 00-0106	EA	1 Quart Tetraploid	13.70	
32 93 23 00-0107	EA	1 Gallon Tetraploid	25.57	
32 93 23 00-0108	EA	3 Gallon Tetraploid	34.89	
32 93 23 00-0109	EA	1 Quart Threadleaf Coreopsis	5.48	
32 93 23 00-0110	EA	1 Gallon Threadleaf Coreopsis	13.70	
32 93 23 00-0111	EA	1 Quart Torch Lily	5.48	
32 93 23 00-0112	EA	1 Quart Bluebeard	9.86	
32 93 23 00-0113	EA	1 Gallon Bluebeard	14.62	
32 93 23 00-0114	EA	2 Gallon Bluebeard	21.37	
32 93 23 00-0115	EA	1 Gallon Anemopsis californica - Yerba Mansa	8.04	
32 93 23 00-0116	EA	1 Gallon Artemisia palmeri - San Diego Sagewort	7.15	
32 93 23 00-0117	EA	1 Gallon Arthrocnemum subterminale - Parish's Pickleweed	8.94	
32 93 23 00-0118	EA	1 Gallon Cressa truxillensis - Alkali Weed	8.94	
32 93 23 00-0119	EA	1 Gallon Frankenia salina - Alkali Heath	7.15	
32 93 23 00-0120	EA	4" Pot Jaumea carnosa - Salt Marsh Daisy	3.58	
32 93 23 00-0121	EA	1 Gallon Jaumea carnosa - Salt Marsh Daisy	7.16	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0122	EA	1 Gallon Juncus acutus - Spiny Rush	7.15	
32 93 23 00-0123	EA	5 Gallon Juncus acutus - Spiny Rush	18.70	
32 93 23 00-0124	EA	1 Gallon Limonium californicum - Sea Lavender	7.15	
32 93 23 00-0125	EA	1 Gallon Salicornia virginica - Deer Weed	7.15	
32 93 23 00-0126	EA	1 Gallon Suaeda esteroa - Sea Blite	8.94	
32 93 23 00-0127	EA	1 Gallon Suaeda taxifolia - Wooly Sea Blite	7.15	

32 93 23 00-0128 Annuals *(32 93 23)*

32 93 23 00-0129	EA	2-1/2" Pot Annual Flowers	2.54	
32 93 23 00-0130	EA	3" Pot Annual Flowers	3.44	
32 93 23 00-0131	EA	4" Pot Annual Flowers	7.35	
32 93 23 00-0132	EA	5-1/2" Pot Annual Flowers	9.78	
32 93 23 00-0133	EA	6" Pot Annual Flowers	19.36	
32 93 23 00-0134	EA	8" Pot Annual Flowers	32.26	
32 93 23 00-0135	EA	36 Plant Flat Annual Flowers	42.24	
32 93 23 00-0136	EA	48 Plant Flat Annual Flowers	47.91	

32 93 23 00-0137 Bulbs *(32 93 23)*

32 93 23 00-0138	EA	Top Size Allium giganteum - Giant Ornamental Onion	8.84	
32 93 23 00-0139	EA	Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	0.51	
32 93 23 00-0140	EA	Top Size Crocus Hybrid	0.58	
32 93 23 00-0141	EA	Top Size Eranthis hyemalis - Winter Aconite	0.75	
32 93 23 00-0142	EA	Top Size Galanthus nivalis - Snowdrops	0.95	
32 93 23 00-0143	EA	Top Size Iris reticulata cvs - Dutch Iris	0.37	
32 93 23 00-0144	EA	Top Size Muscari armeniacum - Grape Hyacinth	0.44	
32 93 23 00-0145	EA	Top Size Muscari latifolium - Grape Hyacinth	0.51	
32 93 23 00-0146	EA	Narcissus 'Carlton' - Carlton Daffodil DNI	3.06	
32 93 23 00-0147	EA	Narcissus 'Dutch Master' - Dutch Master Daffodil DNI	1.46	
32 93 23 00-0148	EA	Narcissus 'February Gold' - February Gold Daffodil DNI	1.53	
32 93 23 00-0149	EA	Narcissus 'Ice Follies' - Ice Follies Daffodil DNI	1.53	
32 93 23 00-0150	EA	Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	1.60	
32 93 23 00-0151	EA	Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	1.70	
32 93 23 00-0152	EA	Narcissus 'Pipit' - Pipit Daffodil DNI	1.60	
32 93 23 00-0153	EA	Narcissus 'Salome' - Salome Daffodil DNI	1.50	
32 93 23 00-0154	EA	Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	1.60	
32 93 23 00-0155	EA	Narcissus 'Thalia' - Thalia Daffodil DNI	1.60	
32 93 23 00-0156	EA	Top Size Scilla siberica - Siberian Squill	0.48	
32 93 23 00-0157	EA	Top Size Tulip 'Angelique' - Angelique Tulip	1.36	
32 93 23 00-0158	EA	Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	1.02	
32 93 23 00-0159	EA	Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	1.36	
32 93 23 00-0160	EA	Top Size Tulip 'Big Smile' - Big Smile Tulip	1.19	
32 93 23 00-0161	EA	Top Size Tulip 'Black Parrot' - Black Parrot Tulip	1.70	
32 93 23 00-0162	EA	Top Size Tulip 'Blue Heron' - Blue Heron Tulip	1.29	
32 93 23 00-0163	EA	Top Size Tulip 'Cardinal' - Cardinal Tulip	1.12	
32 93 23 00-0164	EA	Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip	1.26	
32 93 23 00-0165	EA	Top Size Tulip clusiana - Species Tulip	1.26	
32 93 23 00-0166	EA	Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	1.26	
32 93 23 00-0167	EA	Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	1.02	
32 93 23 00-0168	EA	Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	0.99	
32 93 23 00-0169	EA	Top Size Tulip 'Halcro' - Halcro Tulip	1.02	
32 93 23 00-0170	EA	Top Size Tulip 'Ivory Floridale' - Ivory FloradaleTulip	1.70	
32 93 23 00-0171	EA	Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	1.02	
32 93 23 00-0172	EA	Top Size Tulip 'Passionale' - Passionale Tulip	1.36	
32 93 23 00-0173	EA	Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	1.46	
32 93 23 00-0174	EA	Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	1.53	
32 93 23 00-0175	EA	Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	1.22	
32 93 23 00-0176	EA	Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	1.16	
32 93 23 00-0177	EA	Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	1.26	
32 93 23 00-0178	EA	Top Size Tulip 'Princeps' - Princeps Tulip	1.26	
32 93 23 00-0179	EA	Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip	0.99	
32 93 23 00-0180	EA	Top Size Tulip saxatilis - Species Tulip	0.68	
32 93 23 00-0181	EA	Top Size Tulip 'Shirley - Shirley Tulip	1.02	
32 93 23 00-0182	EA	Top Size Tulip 'Spring Green' - Spring Green Tulip	1.33	
32 93 23 00-0183	EA	Top Size Tulip 'White Emperor' - White Emperor Tulip	1.02	

32 93 33 Shrubs *(32 93)*

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shurbs.

32 93 33 00-0001 Shrubs *(32 93 33)*

32 93 33 00-0002	EA	1 Gallon Abelia x grandiflora - Abelia	9.97	
32 93 33 00-0003	EA	3 Gallon Abelia x grandiflora - Abelia	20.31	
32 93 33 00-0004	EA	5 Gallon Abelia x grandiflora - Abelia	38.99	
32 93 33 00-0005	EA	3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	116.47	
32 93 33 00-0006	EA	18" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	170.23	
32 93 33 00-0007	EA	24" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	189.94	
32 93 33 00-0008	EA	30" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	240.12	
32 93 33 00-0009	EA	36" B&B Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	267.00	
32 93 33 00-0010	EA	18" B&B Aesculus parviflora - Bottlebrush Buckeye	53.76	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0011	EA	24" B&B Aesculus parviflora - Bottlebrush Buckeye	71.68	
32 93 33 00-0012	EA	30" B&B Aesculus parviflora - Bottlebrush Buckeye	89.60	
32 93 33 00-0013	EA	36" B&B Aronia arbutifolia & cvs - Red Chokeberry	54.40	
32 93 33 00-0014	EA	42" B&B Aronia arbutifolia & cvs - Red Chokeberry	64.00	
32 93 33 00-0015	EA	48" B&B Aronia arbutifolia & cvs - Red Chokeberry	76.80	
32 93 33 00-0016	EA	60" B&B Aronia arbutifolia & cvs - Red Chokeberry	89.60	
32 93 33 00-0017	EA	72" B&B Aronia arbutifolia & cvs - Red Chokeberry	108.80	
32 93 33 00-0018	EA	36" B&B Aronia melanocarpa & cvs - Black Chokeberry	52.80	
32 93 33 00-0019	EA	42" B&B Aronia melanocarpa & cvs - Black Chokeberry	56.00	
32 93 33 00-0020	EA	48" B&B Aronia melanocarpa & cvs - Black Chokeberry	59.20	
32 93 33 00-0021	EA	60" B&B Aronia melanocarpa & cvs - Black Chokeberry	67.20	
32 93 33 00-0022	EA	36" B&B Aronia prunifolia - Purple-Fruited Chokeberry	53.60	
32 93 33 00-0023	EA	42" B&B Aronia prunifolia - Purple-Fruited Chokeberry	56.80	
32 93 33 00-0024	EA	48" B&B Aronia prunifolia - Purple-Fruited Chokeberry	60.00	
32 93 33 00-0025	EA	60" B&B Aronia prunifolia - Purple-Fruited Chokeberry	63.20	
32 93 33 00-0026	EA	1 Gallon Aspidistra elatior - Cast Iron Plant	11.00	
32 93 33 00-0027	EA	2 Gallon Aspidistra elatior - Cast Iron Plant	25.44	
32 93 33 00-0028	EA	1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	5.94	
32 93 33 00-0029	EA	5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	14.70	
32 93 33 00-0030	EA	1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	5.94	
32 93 33 00-0031	EA	5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	14.70	
32 93 33 00-0032	EA	1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	12.89	
32 93 33 00-0033	EA	3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	28.36	
32 93 33 00-0034	EA	5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	38.33	
32 93 33 00-0035	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	13.75	
32 93 33 00-0036	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	20.11	
32 93 33 00-0037	EA	15" To 18" Berberis - Northern Bayberry	57.41	
32 93 33 00-0038	EA	2' To 2-1/2' Berberis - Northern Bayberry	72.88	
32 93 33 00-0039	EA	2-1/2' To 3' Berberis - Northern Bayberry	102.10	
32 93 33 00-0040	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberry	6.71	
32 93 33 00-0041	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberry	16.17	
32 93 33 00-0042	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberry	61.36	
32 93 33 00-0043	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry	78.55	
32 93 33 00-0044	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry	100.38	
32 93 33 00-0045	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	16.50	
32 93 33 00-0046	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	32.49	
32 93 33 00-0047	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	39.70	
32 93 33 00-0048	EA	1 Gallon Berberis x mentorensis - Mentor Barberry	15.64	
32 93 33 00-0049	EA	5 Gallon Berberis x mentorensis - Mentor Barberry	44.17	
32 93 33 00-0050	EA	2' To 3' Berberis x mentorensis - Mentor Barberry	61.36	
32 93 33 00-0051	EA	3' To 4' Berberis x mentorensis - Mentor Barberry	94.71	
32 93 33 00-0052	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood	17.88	
32 93 33 00-0053	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood	47.95	
32 93 33 00-0054	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood	51.05	
32 93 33 00-0055	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood	65.66	
32 93 33 00-0056	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood	87.49	
32 93 33 00-0057	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood	131.32	
32 93 33 00-0058	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood	182.36	
32 93 33 00-0059	EA	12" To 15" Buxus sempervirens - Common Boxwood	51.05	
32 93 33 00-0060	EA	15" To 18" Buxus sempervirens - Common Boxwood	65.66	
32 93 33 00-0061	EA	18" To 24" Buxus sempervirens - Common Boxwood	87.49	
32 93 33 00-0062	EA	24" To 30" Buxus sempervirens - Common Boxwood	131.32	
32 93 33 00-0063	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars	33.60	
32 93 33 00-0064	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars	56.00	
32 93 33 00-0065	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	147.20	
32 93 33 00-0066	EA	18" B&B Buxus microphylla & cvs - Little leaf Boxwood	80.00	
32 93 33 00-0067	EA	24" B&B Buxus microphylla & cvs - Little leaf Boxwood	108.80	
32 93 33 00-0068	EA	30" B&B Buxus microphylla & cvs - Little leaf Boxwood	147.20	
32 93 33 00-0069	EA	5 Gallon Calycanthus floridus - Common Sweetshrub	52.80	
32 93 33 00-0070	EA	30" B&B Calycanthus floridus - Common Sweetshrub	48.00	
32 93 33 00-0071	EA	36" B&B Calycanthus floridus - Common Sweetshrub	64.00	
32 93 33 00-0072	EA	1 Gallon Camellia "Sasanqua" - Camellia	12.89	
32 93 33 00-0073	EA	3 Gallon Camellia "Sasanqua" - Camellia	27.50	
32 93 33 00-0074	EA	5 Gallon Camellia "Sasanqua" - Camellia	45.72	
32 93 33 00-0075	EA	7 Gallon Camellia "Sasanqua" - Camellia	68.08	
32 93 33 00-0076	EA	15 Gallon Camellia "Sasanqua" - Camellia	176.64	
32 93 33 00-0077	EA	1 Gallon Camellia japonica - Camellia	12.89	
32 93 33 00-0078	EA	3 Gallon Camellia japonica - Camellia	27.50	
32 93 33 00-0079	EA	5 Gallon Camellia japonica - Camellia	45.72	
32 93 33 00-0080	EA	5 Gallon Ceanothus americanus - New Jersey Tea	52.80	
32 93 33 00-0081	EA	1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	6.71	
32 93 33 00-0082	EA	5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	17.45	
32 93 33 00-0083	EA	5 Gallon Celastrus scandens - Bittersweet	52.80	
32 93 33 00-0084	EA	36" B&B Celastrus scandens - Bittersweet	44.80	
32 93 33 00-0085	EA	5 Gallon Cephalanthus occidentalis - Buttonbush	52.80	
32 93 33 00-0086	EA	24" B&B Cephalanthus occidentalis - Buttonbush	40.00	
32 93 33 00-0087	EA	30" B&B Cephalanthus occidentalis - Buttonbush	44.80	
32 93 33 00-0088	EA	36" B&B Cephalanthus occidentalis - Buttonbush	48.00	
32 93 33 00-0089	EA	18" To 24" Chaenomeles speciosa - Flowering Quince	46.06	
32 93 33 00-0090	EA	2' To 3' Chaenomeles speciosa - Flowering Quince	61.36	
32 93 33 00-0091	EA	3' To 4' Chaenomeles speciosa - Flowering Quince	94.71	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0092	EA	3 Gallon Clethra alnifolia & cvs - Summersweet Clethra	51.20	
32 93 33 00-0093	EA	18" B&B Clethra alnifolia & cvs - Summersweet Clethra	55.20	
32 93 33 00-0094	EA	24" B&B Clethra alnifolia & cvs - Summersweet Clethra	61.60	
32 93 33 00-0095	EA	30" B&B Clethra alnifolia & cvs - Summersweet Clethra	64.80	
32 93 33 00-0096	EA	36" B&B Clethra alnifolia & cvs - Summersweet Clethra	76.00	
32 93 33 00-0097	EA	1 Gallon Cistus Hybridus - White Rockrose	5.94	
32 93 33 00-0098	EA	5 Gallon Cistus Hybridus - White Rockrose	14.70	
32 93 33 00-0099	EA	1 Gallon Coleonema Pulchellum - Confetti Bush	5.94	
32 93 33 00-0100	EA	5 Gallon Coleonema Pulchellum - Confetti Bush	14.70	
32 93 33 00-0101	EA	15 Gallon Coleonema Pulchellum - Confetti Bush	68.84	
32 93 33 00-0102	EA	2' To 3' Cornus mas - Cornelian Cherry	72.88	
32 93 33 00-0103	EA	3' To 4' Cornus mas - Cornelian Cherry	91.10	
32 93 33 00-0104	EA	4' To 5' Cornus mas - Cornelian Cherry	116.71	
32 93 33 00-0105	EA	5' To 6' Cornus mas - Cornelian Cherry	160.36	
32 93 33 00-0106	EA	5 Gallon Cornus alba & cvs - Tartarian Dogwood	48.00	
32 93 33 00-0107	EA	36" B&B Cornus alba & cvs - Tartarian Dogwood	33.60	
32 93 33 00-0108	EA	48" B&B Cornus alba & cvs - Tartarian Dogwood	38.40	
32 93 33 00-0109	EA	60" B&B Cornus alba & cvs - Tartarian Dogwood	48.00	
32 93 33 00-0110	EA	72" B&B Cornus alba & cvs - Tartarian Dogwood	57.60	
32 93 33 00-0111	EA	36" B&B Cornus amomum - Silky Dogwood	48.00	
32 93 33 00-0112	EA	5 Gallon Cornus obliqua - Blue Fruited Dogwood	52.80	
32 93 33 00-0113	EA	5 Gallon Cornus racemosa - Gray Dogwood	52.80	
32 93 33 00-0114	EA	36" B&B Cornus racemosa - Gray Dogwood	48.00	
32 93 33 00-0115	EA	48" B&B Cornus racemosa - Gray Dogwood	56.00	
32 93 33 00-0116	EA	60" B&B Cornus racemosa - Gray Dogwood	60.80	
32 93 33 00-0117	EA	72" B&B Cornus racemosa - Gray Dogwood	73.60	
32 93 33 00-0118	EA	36" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	52.00	
32 93 33 00-0119	EA	48" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	58.40	
32 93 33 00-0120	EA	60" B&B Cornus sanguinea & cvs - Bloodtwig Dogwood	66.40	
32 93 33 00-0121	EA	24" B&B Cornus sericea & cvs - Redosier Dogwood	41.60	
32 93 33 00-0122	EA	30" B&B Cornus sericea & cvs - Redosier Dogwood	48.00	
32 93 33 00-0123	EA	36" B&B Cornus sericea & cvs - Redosier Dogwood	51.20	
32 93 33 00-0124	EA	48" B&B Cornus sericea & cvs - Redosier Dogwood	56.00	
32 93 33 00-0125	EA	60" B&B Cornus sericea & cvs - Redosier Dogwood	62.40	
32 93 33 00-0126	EA	5 Gallon Corylus americana - American Filbert	49.60	
32 93 33 00-0127	EA	30" B&B Corylus americana - American Filbert	56.00	
32 93 33 00-0128	EA	36" B&B Corylus americana - American Filbert	60.00	
32 93 33 00-0129	EA	48" B&B Corylus americana - American Filbert	64.80	
32 93 33 00-0130	EA	24" B&B Corylus avellena - Contorted Hazelnut	160.00	
32 93 33 00-0131	EA	30" B&B Corylus avellena - Contorted Hazelnut	207.99	
32 93 33 00-0132	EA	36" B&B Corylus avellena - Contorted Hazelnut	223.99	
32 93 33 00-0133	EA	42" B&B Corylus avellena - Contorted Hazelnut	287.99	
32 93 33 00-0134	EA	48" B&B Corylus avellena - Contorted Hazelnut	351.99	
32 93 33 00-0135	EA	60" B&B Corylus avellena - Contorted Hazelnut	399.99	
32 93 33 00-0136	EA	5' To 6' Cotinus coggygria - Smoke Tree	153.14	
32 93 33 00-0137	EA	6' To 8' Cotinus coggygria - Smoke Tree	229.63	
32 93 33 00-0138	EA	8' To 10' Cotinus coggygria - Smoke Tree	346.34	
32 93 33 00-0139	EA	5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster	40.00	
32 93 33 00-0140	EA	18" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster	40.00	
32 93 33 00-0141	EA	24" B&B Cotoneaster acutifolia & cvs - Peking Cotoneaster	41.60	
32 93 33 00-0142	EA	12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster	38.33	
32 93 33 00-0143	EA	3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	41.60	
32 93 33 00-0144	EA	18" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster	40.00	
32 93 33 00-0145	EA	24" B&B Cotoneaster apiculata & cvs - Cranberry Cotoneaster	41.60	
32 93 33 00-0146	EA	1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster	16.50	
32 93 33 00-0147	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	51.05	
32 93 33 00-0148	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	68.92	
32 93 33 00-0149	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	116.71	
32 93 33 00-0150	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	5.94	
32 93 33 00-0151	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	14.70	
32 93 33 00-0152	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	16.50	
32 93 33 00-0153	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	32.49	
32 93 33 00-0154	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	5.94	
32 93 33 00-0155	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	14.70	
32 93 33 00-0156	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	58.35	
32 93 33 00-0157	EA	18" B&B Deutzia gracilis - Slender Deutzia	40.80	
32 93 33 00-0158	EA	24" B&B Deutzia gracilis - Slender Deutzia	44.80	
32 93 33 00-0159	EA	30" B&B Deutzia gracilis - Slender Deutzia	57.60	
32 93 33 00-0160	EA	36" B&B Deutzia gracilis - Slender Deutzia	67.20	
32 93 33 00-0161	EA	42" B&B Deutzia gracilis - Slender Deutzia	76.80	
32 93 33 00-0162	EA	24" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	64.00	
32 93 33 00-0163	EA	30" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	76.80	
32 93 33 00-0164	EA	36" B&B Diervilla sessilifolia - Southern Bush Honeysuckle	89.60	
32 93 33 00-0165	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	24.00	
32 93 33 00-0166	EA	36" B&B Diervilla splendens - Splendens Bush Honeysuckle	57.60	
32 93 33 00-0167	EA	48" B&B Diervilla splendens - Splendens Bush Honeysuckle	76.80	
32 93 33 00-0168	EA	1 Gallon Elaeagnus - Silverberry	14.72	
32 93 33 00-0169	EA	3 Gallon Elaeagnus - Silverberry	29.44	
32 93 33 00-0170	EA	5 Gallon Elaeagnus - Silverberry	40.48	
32 93 33 00-0171	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	47.78	
32 93 33 00-0172	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	65.66	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0173	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	78.55	
32 93 33 00-0174	EA	3' To 4' Elaeagnus angustiflolia - Russian Olive	76.49	
32 93 33 00-0175	EA	1 Gallon Euonymus - Gold Spot	13.75	
32 93 33 00-0176	EA	2 Gallon Euonymus - Gold Spot	28.88	
32 93 33 00-0177	EA	5 Gallon Euonymus - Gold Spot	39.71	
32 93 33 00-0178	EA	1 Gallon Euonymus alatus - Winged Euonymus	11.74	
32 93 33 00-0179	EA	3 Gallon Euonymus alatus - Winged Euonymus	33.86	
32 93 33 00-0180	EA	24" B&B Euonymus alatus - Winged Euonymus	45.63	
32 93 33 00-0181	EA	30" B&B Euonymus alatus - Winged Euonymus	57.04	
32 93 33 00-0182	EA	36" B&B Euonymus alatus - Winged Euonymus	78.38	
32 93 33 00-0183	EA	42" B&B Euonymus alatus - Winged Euonymus	96.78	
32 93 33 00-0184	EA	48" B&B Euonymus alatus - Winged Euonymus	114.08	
32 93 33 00-0185	EA	54" B&B Euonymus alatus - Winged Euonymus	147.20	
32 93 33 00-0186	EA	5 Gallon Euonymus alatus - Winged Euonymus	42.32	
32 93 33 00-0187	EA	60" B&B Euonymus alatus - Winged Euonymus	184.00	
32 93 33 00-0188	EA	30" B&B Euonymus alatus compactus - Compact Winged Euonymus	72.00	
32 93 33 00-0189	EA	36" B&B Euonymus alatus compactus - Compact Winged Euonymus	85.60	
32 93 33 00-0190	EA	42" B&B Euonymus alatus compactus - Compact Winged Euonymus	112.00	
32 93 33 00-0191	EA	48" B&B Euonymus alatus compactus - Compact Winged Euonymus	134.40	
32 93 33 00-0192	EA	60" B&B Euonymus alatus compactus - Compact Winged Euonymus	166.40	
32 93 33 00-0193	EA	18" To 24" Euonymus alatus - Winged Burning Bush	51.05	
32 93 33 00-0194	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush	60.16	
32 93 33 00-0195	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush	82.16	
32 93 33 00-0196	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush	98.49	
32 93 33 00-0197	EA	3-1/2 To 4' Euonymus alatus - Winged Burning Bush	123.92	
32 93 33 00-0198	EA	4' To 5' Euonymus alatus - Winged Burning Bush	174.97	
32 93 33 00-0199	EA	5' To 6' Euonymus alatus - Winged Burning Bush	218.80	
32 93 33 00-0200	EA	6' To 8' Euonymus alatus - Winged Burning Bush	255.24	
32 93 33 00-0201	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush	51.05	
32 93 33 00-0202	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush	58.27	
32 93 33 00-0203	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush	71.16	
32 93 33 00-0204	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush	100.38	
32 93 33 00-0205	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush	118.60	
32 93 33 00-0206	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush	142.14	
32 93 33 00-0207	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush	200.58	
32 93 33 00-0208	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush	237.02	
32 93 33 00-0209	EA	36" B&B Euonymus atropurpurea - Eastern Wahoo	43.20	
32 93 33 00-0210	EA	1 Gallon Euonymus fortunei - Wintercreeper	16.50	
32 93 33 00-0211	EA	2 Gallon Euonymus fortunei - Wintercreeper	32.49	
32 93 33 00-0212	EA	3 Gallon Euonymus fortunei - Wintercreeper	39.71	
32 93 33 00-0213	EA	5 Gallon Euonymus fortunei - Wintercreeper	47.10	
32 93 33 00-0214	EA	2' To 3' Forsythia - Korean Forsythia	36.44	
32 93 33 00-0215	EA	3' To 4' Forsythia - Korean Forsythia	46.06	
32 93 33 00-0216	EA	4' To 5' Forsythia - Korean Forsythia	57.41	
32 93 33 00-0217	EA	30" B&B Forsythia cvs - Forsythia cultivars	36.80	
32 93 33 00-0218	EA	36" B&B Forsythia cvs - Forsythia cultivars	40.80	
32 93 33 00-0219	EA	48" B&B Forsythia cvs - Forsythia cultivars	44.00	
32 93 33 00-0220	EA	18" B&B Forsythia viridissima & cvs - Green Forsythia	38.40	
32 93 33 00-0221	EA	24" B&B Forsythia viridissima & cvs - Green Forsythia	51.20	
32 93 33 00-0222	EA	24" B&B Forsythia x intermedia & cvs - Border Forsythia	38.40	
32 93 33 00-0223	EA	30" B&B Forsythia x intermedia & cvs - Border Forsythia	44.80	
32 93 33 00-0224	EA	36" B&B Forsythia x intermedia & cvs - Border Forsythia	52.80	
32 93 33 00-0225	EA	42" B&B Forsythia x intermedia & cvs - Border Forsythia	60.80	
32 93 33 00-0226	EA	48" B&B Forsythia x intermedia & cvs - Border Forsythia	70.40	
32 93 33 00-0227	EA	2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	54.40	
32 93 33 00-0228	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	76.00	
32 93 33 00-0229	EA	5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	80.00	
32 93 33 00-0230	EA	15" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	83.20	
32 93 33 00-0231	EA	18" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	89.60	
32 93 33 00-0232	EA	24" B&B Fothergilla gardenii & cvs - Dwarf Fothergilla	108.80	
32 93 33 00-0233	EA	24" B&B Fothergilla major - Large Fothergilla	140.80	
32 93 33 00-0234	EA	30" B&B Fothergilla major - Large Fothergilla	160.00	
32 93 33 00-0235	EA	1 Gallon Gardenia jasminoides - Cape Jasmine	11.86	
32 93 33 00-0236	EA	3 Gallon Gardenia jasminoides - Cape Jasmine	31.11	
32 93 33 00-0237	EA	5 Gallon Gardenia jasminoides - Cape Jasmine	39.71	
32 93 33 00-0238	EA	36" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	112.00	
32 93 33 00-0239	EA	48" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	182.40	
32 93 33 00-0240	EA	60" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	230.39	
32 93 33 00-0241	EA	72" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	351.99	
32 93 33 00-0242	EA	84" B&B Hamamelis vernalis & cvs - Vernal Witchhazel	399.99	
32 93 33 00-0243	EA	1 Gallon Hedychuium gartdnerum - Variegated Ginger	6.81	
32 93 33 00-0244	EA	3 Gallon Hedychuium gartdnerum - Variegated Ginger	23.92	
32 93 33 00-0245	EA	5 Gallon Hedychuium gartdnerum - Variegated Ginger	46.00	
32 93 33 00-0246	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus	17.44	
32 93 33 00-0247	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus	29.44	
32 93 33 00-0248	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus	44.53	
32 93 33 00-0249	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon	46.06	
32 93 33 00-0250	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon	39.19	
32 93 33 00-0251	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon	52.94	
32 93 33 00-0252	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon	76.49	
32 93 33 00-0253	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon	105.71	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0254	EA	2 Gallon Hydrangea - Blue Hydrangea	32.49	
32 93 33 00-0255	EA	5 Gallon Hydrangea - Blue Hydrangea	45.72	
32 93 33 00-0256	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	51.05	
32 93 33 00-0257	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	58.27	
32 93 33 00-0258	EA	2 Gallon Hydrangea quercifloia - Oakleaf Hydrangea	32.49	
32 93 33 00-0259	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	56.00	
32 93 33 00-0260	EA	30" B&B Hydrangea arborescens & cvs - Smooth Hydrangea	60.80	
32 93 33 00-0261	EA	36" B&B Hydrangea arborescens & cvs - Smooth Hydrangea	70.40	
32 93 33 00-0262	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	73.60	
32 93 33 00-0263	EA	18" B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea	57.60	
32 93 33 00-0264	EA	24" B&B Hydrangea macrophylla & cvs - Bigleaf Hydrangea	76.80	
32 93 33 00-0265	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	33.60	
32 93 33 00-0266	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	40.00	
32 93 33 00-0267	EA	18" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	34.40	
32 93 33 00-0268	EA	24" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	36.80	
32 93 33 00-0269	EA	30" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	41.60	
32 93 33 00-0270	EA	36" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	48.00	
32 93 33 00-0271	EA	48" B&B Hydrangea paniculata & cvs - Panicle Hydrangea	64.00	
32 93 33 00-0272	EA	18" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	46.40	
32 93 33 00-0273	EA	24" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	52.80	
32 93 33 00-0274	EA	30" B&B Hydrangea quercifolia & cvs - Oakleaf Hydrangea	62.40	
32 93 33 00-0275	EA	2 Gallon Hypericum kalmianum - St. John's Wort	32.49	
32 93 33 00-0276	EA	3 Gallon Hypericum kalmianun - Kalm St. John's Wort	38.40	
32 93 33 00-0277	EA	24" B&B Hypericum kalmianun - Kalm St. John's Wort	41.60	
32 93 33 00-0278	EA	1 Gallon Ilex "Carissa" - Holly	16.50	
32 93 33 00-0279	EA	2 Gallon Ilex "Carissa" - Holly	32.49	
32 93 33 00-0280	EA	5 Gallon Ilex "Carissa" - Holly	45.72	
32 93 33 00-0281	EA	18" To 24" Ilex - Gulftide Sweet Holly	43.83	
32 93 33 00-0282	EA	2' To 2-1/2' Ilex - Gulftide Sweet Holly	55.52	
32 93 33 00-0283	EA	2-1/2' To 3' Ilex - Gulftide Sweet Holly	72.02	
32 93 33 00-0284	EA	3' To 3-1/2' Ilex - Gulftide Sweet Holly	87.49	
32 93 33 00-0285	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly	32.74	
32 93 33 00-0286	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	16.50	
32 93 33 00-0287	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	32.49	
32 93 33 00-0288	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	47.10	
32 93 33 00-0289	EA	1 Gallon Ilex crenata - Hellers Japanese Holly	16.50	
32 93 33 00-0290	EA	2 Gallon Ilex crenata - Hellers Japanese Holly	36.10	
32 93 33 00-0291	EA	3 Gallon Ilex crenata - Hellers Japanese Holly	47.10	
32 93 33 00-0292	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly	36.09	
32 93 33 00-0293	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly	43.49	
32 93 33 00-0294	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly	87.49	
32 93 33 00-0295	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly	116.71	
32 93 33 00-0296	EA	2' To 3' Ilex opaca - American Holly	116.71	
32 93 33 00-0297	EA	3' To 4' Ilex opaca - American Holly	193.19	
32 93 33 00-0298	EA	4' To 5' Ilex opaca - American Holly	247.85	
32 93 33 00-0299	EA	5' To 6' Ilex opaca - American Holly	298.90	
32 93 33 00-0300	EA	6' To 7' Ilex opaca - American Holly	419.21	
32 93 33 00-0301	EA	7' To 8' Ilex opaca - American Holly	583.36	
32 93 33 00-0302	EA	8' To 10' Ilex opaca - American Holly	838.43	
32 93 33 00-0303	EA	10' To 12' Ilex opaca - American Holly	1,276.03	
32 93 33 00-0304	EA	12' To 14' Ilex opaca - American Holly	1,549.32	
32 93 33 00-0305	EA	14' To 16' Ilex opaca - American Holly	1,913.88	
32 93 33 00-0306	EA	2' To 3' Ilex verticillata - Winterberry (Female)	116.71	
32 93 33 00-0307	EA	3' To 4' Ilex verticillata - Winterberry (Female)	153.14	
32 93 33 00-0308	EA	2' To 3' Ilex verticillata - Winterberry (Male)	94.71	
32 93 33 00-0309	EA	3' To 4' Ilex verticillata - Winterberry (Male)	131.32	
32 93 33 00-0310	EA	4' To 5' Ilex verticillata - Winterberry (Male)	153.14	
32 93 33 00-0311	EA	1 Gallon Ilex vomitoria - Yaupon Holly	15.47	
32 93 33 00-0312	EA	3 Gallon Ilex vomitoria - Yaupon Holly	31.11	
32 93 33 00-0313	EA	10 Gallon Ilex vomitoria - Yaupon Holly	109.32	
32 93 33 00-0314	EA	18" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly	49.60	
32 93 33 00-0315	EA	24" B&B Ilex glabra compacta & cvs - Compact Inkberry Holly	56.00	
32 93 33 00-0316	EA	3 Gallon Ilex meserveae & cvs - Blue Holly	64.00	
32 93 33 00-0317	EA	18" B&B Ilex meserveae & cvs - Blue Holly	59.20	
32 93 33 00-0318	EA	24" B&B Ilex meservae & cvs - Blue Holly	72.00	
32 93 33 00-0319	EA	5 Gallon Ilex verticillata & cvs - Common Winterberry	52.80	
32 93 33 00-0320	EA	24" B&B Ilex verticillata & cvs - Common Winterberry	52.80	
32 93 33 00-0321	EA	30" B&B Ilex verticillata & cvs - Common Winterberry	56.00	
32 93 33 00-0322	EA	36" B&B Ilex verticillata & cvs - Common Winterberry	67.20	
32 93 33 00-0323	EA	42" B&B Ilex verticillata & cvs - Common Winterberry	75.20	
32 93 33 00-0324	EA	48" B&B Ilex verticillata & cvs - Common Winterberry	80.00	
32 93 33 00-0325	EA	60" B&B Ilex verticillata & cvs - Common Winterberry	102.40	
32 93 33 00-0326	EA	4' To 5' Ilex x attenuata "Foster" - Holly	189.58	
32 93 33 00-0327	EA	5' To 6' Ilex x attenuata "Foster" - Holly	251.46	
32 93 33 00-0328	EA	6' To 7' Ilex x attenuata "Foster" - Holly	224.99	
32 93 33 00-0329	EA	7' To 8' Ilex x attenuata "Foster" - Holly	437.43	
32 93 33 00-0330	EA	1 Gallon Jasimnum - Jasmine	4.23	
32 93 33 00-0331	EA	3 Gallon Jasimnum - Jasmine	16.56	
32 93 33 00-0332	EA	3 Gallon Jasimnum - Orange Jasmine	12.88	
32 93 33 00-0333	EA	4' - 5' Jasimnum - Orange Jasmine	147.20	
32 93 33 00-0334	EA	6' - 7' Jasimnum - Orange Jasmine	294.39	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0335	EA	8' - 10' Jasimnum - Orange Jasmine	397.43	
32 93 33 00-0336	EA	3 Gallon Juniperus chinesis cvs - Chinese Juniper	56.00	
32 93 33 00-0337	EA	5 Gallon Juniperus chinesis cvs - Chinese Juniper	62.40	
32 93 33 00-0338	EA	18" B&B Juniperus chinesis cvs - Chinese Juniper	83.20	
32 93 33 00-0339	EA	24" B&B Juniperus chinesis cvs - Chinese Juniper	108.80	
32 93 33 00-0340	EA	30" B&B Juniperus chinesis cvs - Chinese Juniper	128.00	
32 93 33 00-0341	EA	36" B&B Juniperus chinesis cvs - Chinese Juniper	172.80	
32 93 33 00-0342	EA	48" B&B Juniperus chinesis cvs - Chinese Juniper	236.79	
32 93 33 00-0343	EA	1 Gallon Juniperus horizontalis cvs - Creeping Juniper	26.68	
32 93 33 00-0344	EA	3 Gallon Juniperus horizontalis cvs - Creeping Juniper	56.00	
32 93 33 00-0345	EA	5 Gallon Juniperus horizontalis cvs - Creeping Juniper	62.40	
32 93 33 00-0346	EA	15" B&B Juniperus horizontalis cvs - Creeping Juniper	67.20	
32 93 33 00-0347	EA	18" B&B Juniperus horizontalis cvs - Creeping Juniper	73.60	
32 93 33 00-0348	EA	24" B&B Juniperus horizontalis cvs - Creeping Juniper	89.60	
32 93 33 00-0349	EA	30" B&B Juniperus horizontalis cvs - Creeping Juniper	108.80	
32 93 33 00-0350	EA	3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper	43.20	
32 93 33 00-0351	EA	18" B&B Juniperus procumbens cvs - Japanese Garden Juniper	51.20	
32 93 33 00-0352	EA	24" B&B Juniperus procumbens cvs - Japanese Garden Juniper	70.40	
32 93 33 00-0353	EA	30" B&B Juniperus procumbens cvs - Japanese Garden Juniper	89.60	
32 93 33 00-0354	EA	36" B&B Juniperus procumbens cvs - Japanese Garden Juniper	108.80	
32 93 33 00-0355	EA	3 Gallon Juniperus sabina cvs - Savin Juniper	40.00	
32 93 33 00-0356	EA	5 Gallon Juniperus sabina cvs - Savin Juniper	48.00	
32 93 33 00-0357	EA	4 Gallon Juniperus virginiana cvs - Red Cedar Juniper	41.60	
32 93 33 00-0358	EA	36" B&B Juniperus virginiana cvs - Red Cedar Juniper	80.00	
32 93 33 00-0359	EA	48" B&B Juniperus virginiana cvs - Red Cedar Juniper	124.80	
32 93 33 00-0360	EA	60" B&B Juniperus virginiana cvs - Red Cedar Juniper	156.80	
32 93 33 00-0361	EA	15" To 18" Kalmia latifolia - Mountain Laurel	65.66	
32 93 33 00-0362	EA	18" To 24" Kalmia latifolia - Mountain Laurel	87.49	
32 93 33 00-0363	EA	2' To 3' Kalmia latifolia - Mountain Laurel	127.53	
32 93 33 00-0364	EA	4' To 5' Kalmia latifolia - Mountain Laurel	233.24	
32 93 33 00-0365	EA	5' To 6' Kalmia latifolia - Mountain Laurel	357.34	
32 93 33 00-0366	EA	6' To 8' Kalmia latifolia - Mountain Laurel	546.92	
32 93 33 00-0367	EA	1 Gallon Kerria japonica - Kerria	14.61	
32 93 33 00-0368	EA	5 Gallon Kerria japonica - Kerria	45.72	
32 93 33 00-0369	EA	24" B&B Kolkwitzia amabilis & cvs - Beautybush	46.40	
32 93 33 00-0370	EA	30" B&B Kolkwitzia amabilis & cvs - Beautybush	52.80	
32 93 33 00-0371	EA	36" B&B Kolkwitzia amabilis & cvs - Beautybush	57.60	
32 93 33 00-0372	EA	42" B&B Kolkwitzia amabilis & cvs - Beautybush	67.20	
32 93 33 00-0373	EA	48" B&B Kolkwitzia amabilis & cvs - Beautybush	76.80	
32 93 33 00-0374	EA	60" B&B Kolkwitzia amabilis & cvs - Beautybush	96.00	
32 93 33 00-0375	EA	1 Gallon Lagerstroemia indica - Crape Myrtle	11.00	
32 93 33 00-0376	EA	5 Gallon Lagerstroemia indica - Crape Myrtle	39.19	
32 93 33 00-0377	EA	3' To 4' Lagerstroemia indica - Crape Myrtle	54.66	
32 93 33 00-0378	EA	4' To 5' Lagerstroemia indica - Crape Myrtle	80.27	
32 93 33 00-0379	EA	5' To 6' Lagerstroemia indica - Crape Myrtle	127.53	
32 93 33 00-0380	EA	7' To 8' Lagerstroemia indica - Crape Myrtle	165.60	
32 93 33 00-0381	EA	9' To 10' Lagerstroemia indica - Crape Myrtle	220.79	
32 93 33 00-0382	EA	11' To 12' Lagerstroemia indica - Crape Myrtle	459.99	
32 93 33 00-0383	EA	1 Gallon Leucothoe axillaris - Coast Leucothoe	16.50	
32 93 33 00-0384	EA	2 Gallon Leucothoe axillaris - Coast Leucothoe	36.10	
32 93 33 00-0385	EA	3 Gallon Leucothoe axillaris - Coast Leucothoe	43.49	
32 93 33 00-0386	EA	1 Gallon Ligustrum lucidum - Glossy Privet	10.14	
32 93 33 00-0387	EA	5 Gallon Ligustrum lucidum - Glossy Privet	31.11	
32 93 33 00-0388	EA	15 Gallon Ligustrum lucidum - Glossy Privet	145.75	
32 93 33 00-0389	EA	1 Gallon Ligustrum sinense - Variegated Chinese Privet	10.14	
32 93 33 00-0390	EA	2 Gallon Ligustrum sinense - Variegated Chinese Privet	21.83	
32 93 33 00-0391	EA	3 Gallon Ligustrum sinense - Variegated Chinese Privet	28.36	
32 93 33 00-0392	EA	36" B&B Ligustrum vulgare & cvs - Common Privet	48.00	
32 93 33 00-0393	EA	48" B&B Ligustrum vulgare & cvs - Common Privet	70.40	
32 93 33 00-0394	EA	60" B&B Ligustrum vulgare & cvs - Common Privet	89.60	
32 93 33 00-0395	EA	72" B&B Ligustrum vulgare & cvs - Common Privet	102.40	
32 93 33 00-0396	EA	5 Gallon Lindera benzoin - Spicebush	52.80	
32 93 33 00-0397	EA	36" B&B Lindera benzoin - Spicebush	44.80	
32 93 33 00-0398	EA	48" B&B Lindera benzoin - Spicebush	54.40	
32 93 33 00-0399	EA	2' To 3' Lonicera fragrantissima - Winter Honeysuckle	87.49	
32 93 33 00-0400	EA	3' To 4' Lonicera fragrantissima - Winter Honeysuckle	105.71	
32 93 33 00-0401	EA	30" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	48.00	
32 93 33 00-0402	EA	36" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	57.60	
32 93 33 00-0403	EA	42" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	64.00	
32 93 33 00-0404	EA	48" B&B Lonicera tatarica & cvs - Tatarian Honeysuckle	70.40	
32 93 33 00-0405	EA	1 Gallon Myrica cerifera - Wax Myrtle	9.20	
32 93 33 00-0406	EA	4 Gallon Myrica cerifera - Wax Myrtle	29.44	
32 93 33 00-0407	EA	7 Gallon Myrica cerifera - Wax Myrtle	64.40	
32 93 33 00-0408	EA	10 Gallon Myrica cerifera - Wax Myrtle	95.68	
32 93 33 00-0409	EA	15 Gallon Myrica cerifera - Wax Myrtle	147.20	
32 93 33 00-0410	EA	45 Gallon Myrica cerifera - Wax Myrtle	441.59	
32 93 33 00-0411	EA	1' - 2' Myrica cerifera - Wax Myrtle	12.88	
32 93 33 00-0412	EA	3' - 4' Myrica cerifera - Wax Myrtle	44.16	
32 93 33 00-0413	EA	5' - 6' Myrica cerifera - Wax Myrtle	80.96	
32 93 33 00-0414	EA	7' - 8' Myrica cerifera - Wax Myrtle	110.40	
32 93 33 00-0415	EA	9' - 10' Myrica cerifera - Wax Myrtle	147.20	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0416	EA	11' - 12' Myrica cerifera - Wax Myrtle	224.47	
32 93 33 00-0417	EA	3 Gallon Myrica pensylvanica - Northern Bayberry	48.00	
32 93 33 00-0418	EA	24" B&B Myrica pensylvanica - Northern Bayberry	78.40	
32 93 33 00-0419	EA	30" B&B Myrica pensylvanica - Northern Bayberry	115.20	
32 93 33 00-0420	EA	36" B&B Myrica pensylvanica - Northern Bayberry	137.60	
32 93 33 00-0421	EA	48" B&B Myrica pensylvanica - Northern Bayberry	144.00	
32 93 33 00-0422	EA	1 Gallon Nandina domestica - Heavenly Bamboo	16.50	
32 93 33 00-0423	EA	2 Gallon Nandina domestica - Heavenly Bamboo	36.10	
32 93 33 00-0424	EA	5 Gallon Nandina domestica - Heavenly Bamboo	54.66	
32 93 33 00-0425	EA	1 Gallon Osmanthus fragrans - Fragrant Tea Olive	10.14	
32 93 33 00-0426	EA	3 Gallon Osmanthus fragrans - Fragrant Tea Olive	27.50	
32 93 33 00-0427	EA	1 Gallon Philadelphus - Evergreen Mockorange	14.09	
32 93 33 00-0428	EA	5 Gallon Philadelphus - Evergreen Mockorange	45.72	
32 93 33 00-0429	EA	36" B&B Philadelphus x virginalis & cvs - Mockorange	48.00	
32 93 33 00-0430	EA	42" B&B Philadelphus x virginalis & cvs - Mockorange	56.00	
32 93 33 00-0431	EA	48" B&B Philadelphus x virginalis & cvs - Mockorange	64.00	
32 93 33 00-0432	EA	24" B&B Physocarpos opulifolius 'Nana' - Dwarf Common Ninebark	48.00	
32 93 33 00-0433	EA	30" B&B Physocarpos opulifolius 'Nana' - Dwarf Common Ninebark	56.00	
32 93 33 00-0434	EA	36" B&B Physocarpos opulifolius 'Nana' - Dwarf Common Ninebark	64.00	
32 93 33 00-0435	EA	42" B&B Physocarpos opulifolius 'Nana' - Dwarf Common Ninebark	80.00	
32 93 33 00-0436	EA	48" B&B Physocarpos opulifolius 'Nana' - Dwarf Common Ninebark	96.00	
32 93 33 00-0437	EA	12" To 15" Spread Pieris - Mountain Andromeda	44.17	
32 93 33 00-0438	EA	15" To 18" Spread Pieris - Mountain Andromeda	94.71	
32 93 33 00-0439	EA	12" To 15" Pieris japonica - Japanese Andromeda	57.41	
32 93 33 00-0440	EA	15" To 18" Pieris japonica - Japanese Andromeda	65.66	
32 93 33 00-0441	EA	18" To 24" Pieris japonica - Japanese Andromeda	82.16	
32 93 33 00-0442	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda	116.71	
32 93 33 00-0443	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda	138.54	
32 93 33 00-0444	EA	24" B&B Pinus mugo & cvs - Mugo Pine	44.80	
32 93 33 00-0445	EA	30" B&B Pinus mugo & cvs - Mugo Pine	57.34	
32 93 33 00-0446	EA	36" B&B Pinus mugo & cvs - Mugo Pine	68.99	
32 93 33 00-0447	EA	48" B&B Pinus mugo & cvs - Mugo Pine	88.70	
32 93 33 00-0448	EA	60" B&B Pinus mugo & cvs - Mugo Pine	106.62	
32 93 33 00-0449	EA	72" B&B Pinus mugo & cvs - Mugo Pine	155.90	
32 93 33 00-0450	EA	30" B&B Pinus mugo compacta - Dwarf Mugo Pine	96.76	
32 93 33 00-0451	EA	36" B&B Pinus mugo compacta - Dwarf Mugo Pine	116.47	
32 93 33 00-0452	EA	48" B&B Pinus mugo compacta - Dwarf Mugo Pine	155.00	
32 93 33 00-0453	EA	1 Gallon Pittosporum - Pittosporum	6.07	
32 93 33 00-0454	EA	3 Gallon Pittosporum - Pittosporum	15.64	
32 93 33 00-0455	EA	1 Gallon Pittosporum - Varigated Pittosporum	6.07	
32 93 33 00-0456	EA	3 Gallon Pittosporum - Varigated Pittosporum	15.64	
32 93 33 00-0457	EA	5 Gallon Pittosporum - Varigated Pittosporum	27.42	
32 93 33 00-0458	EA	1 Gallon Podocarpus macrophyllus - Yew Podocarpus	7.36	
32 93 33 00-0459	EA	3 Gallon Podocarpus macrophyllus - Yew Podocarpus	22.08	
32 93 33 00-0460	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	27.20	
32 93 33 00-0461	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil	38.40	
32 93 33 00-0462	EA	18" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	28.80	
32 93 33 00-0463	EA	24" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	32.00	
32 93 33 00-0464	EA	30" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	46.40	
32 93 33 00-0465	EA	36" B&B Potentilla fruticosa & cvs - Bush Cinquefoil	53.60	
32 93 33 00-0466	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel	6.16	
32 93 33 00-0467	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel	15.40	
32 93 33 00-0468	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel	91.82	
32 93 33 00-0469	EA	15" To 18" Prunus laurocerasus - Cherry Laurel	23.49	
32 93 33 00-0470	EA	18" To 24" Prunus laurocerasus - Cherry Laurel	29.07	
32 93 33 00-0471	EA	24" To 30" Prunus laurocerasus - Cherry Laurel	37.83	
32 93 33 00-0472	EA	15" To 18" Prunus triloba - Double White Flowering Almond	20.98	
32 93 33 00-0473	EA	18" To 24" Prunus triloba - Double White Flowering Almond	26.85	
32 93 33 00-0474	EA	3' To 4' Prunus triloba - Double White Flowering Almond	42.83	
32 93 33 00-0475	EA	4' To 6' Prunus triloba - Double White Flowering Almond	85.76	
32 93 33 00-0476	EA	5 Gallon Prunus triloba - Pink Flowering Almond	25.80	
32 93 33 00-0477	EA	18" To 24" Prunus triloba - Pink Flowering Almond	28.97	
32 93 33 00-0478	EA	2' To 3' Prunus triloba - Pink Flowering Almond	33.69	
32 93 33 00-0479	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry	22.91	
32 93 33 00-0480	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry	28.11	
32 93 33 00-0481	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry	33.69	
32 93 33 00-0482	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry	38.60	
32 93 33 00-0483	EA	1 Gallon Punica granatum - Dwarf Pomegranate	10.83	
32 93 33 00-0484	EA	3 Gallon Punica granatum - Dwarf Pomegranate	31.97	
32 93 33 00-0485	EA	7 Gallon Punica granatum - Dwarf Pomegranate	65.66	
32 93 33 00-0486	EA	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	13.75	
32 93 33 00-0487	EA	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	45.72	
32 93 33 00-0488	EA	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha	94.71	
32 93 33 00-0489	EA	1 Gallon Ralphiolepis indica - Indian Hawthorne	11.00	
32 93 33 00-0490	EA	2 Gallon Ralphiolepis indica - Indian Hawthorne	20.97	
32 93 33 00-0491	EA	5 Gallon Ralphiolepis indica - Indian Hawthorne	37.30	
32 93 33 00-0492	EA	1 Gallon Rhamnus californica - Coffeeberry	16.72	
32 93 33 00-0493	EA	5 Gallon Rhamnus californica - Coffeeberry	47.81	
32 93 33 00-0494	EA	15 Gallon Rhamnus californica - Coffeeberry	143.49	
32 93 33 00-0495	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	83.88	
32 93 33 00-0496	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	114.99	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0497	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	149.53	
32 93 33 00-0498	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge	273.46	
32 93 33 00-0499	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids	17.88	
32 93 33 00-0500	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids	36.09	
32 93 33 00-0501	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids	47.10	
32 93 33 00-0502	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids	54.66	
32 93 33 00-0503	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids	63.94	
32 93 33 00-0504	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids	80.27	
32 93 33 00-0505	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids	116.71	
32 93 33 00-0506	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids	163.97	
32 93 33 00-0507	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	20.11	
32 93 33 00-0508	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	36.09	
32 93 33 00-0509	EA	15' To 18' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	62.05	
32 93 33 00-0510	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	80.27	
32 93 33 00-0511	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	116.71	
32 93 33 00-0512	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	171.36	
32 93 33 00-0513	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	229.63	
32 93 33 00-0514	EA	5 Gallon Rhododendron - Boxleaf Azara	45.72	
32 93 33 00-0515	EA	15 Gallon Rhododendron - Boxleaf Azara	163.97	
32 93 33 00-0516	EA	15" To 18" Rhododendron - Carolina Rhododendron	51.74	
32 93 33 00-0517	EA	18" To 24" Rhododendron - Carolina Rhododendron	91.10	
32 93 33 00-0518	EA	24" To 30" Rhododendron - Carolina Rhododendron	134.93	
32 93 33 00-0519	EA	2' To 3' Rhododendron - Five-leafed Azalea	61.36	
32 93 33 00-0520	EA	3' To 4' Rhododendron - Five-leafed Azalea	80.27	
32 93 33 00-0521	EA	4' To 5' Rhododendron - Five-leafed Azalea	105.71	
32 93 33 00-0522	EA	15" To 18" Rhododendron - Ghent Azalea	61.36	
32 93 33 00-0523	EA	18" To 24" Rhododendron - Ghent Azalea	76.49	
32 93 33 00-0524	EA	2' To 3' Rhododendron - Ghent Azalea	123.92	
32 93 33 00-0525	EA	3' To 4' Rhododendron - Ghent Azalea	171.36	
32 93 33 00-0526	EA	4' To 5' Rhododendron - Ghent Azalea	229.63	
32 93 33 00-0527	EA	5' To 6' Rhododendron - Ghent Azalea	306.29	
32 93 33 00-0528	EA	1 Gallon Rhododendron - Hybrid Rhododendron	20.11	
32 93 33 00-0529	EA	2 Gallon Rhododendron - Hybrid Rhododendron	43.49	
32 93 33 00-0530	EA	3 Gallon Rhododendron - Hybrid Rhododendron	61.70	
32 93 33 00-0531	EA	5 Gallon Rhododendron - Hybrid Rhododendron	68.92	
32 93 33 00-0532	EA	15" To 18" Rhododendron - Hybrid Rhododendron	58.27	
32 93 33 00-0533	EA	18" To 24" Rhododendron - Hybrid Rhododendron	80.27	
32 93 33 00-0534	EA	24" To 30" Rhododendron - Hybrid Rhododendron	109.32	
32 93 33 00-0535	EA	30" To 36" Rhododendron - Hybrid Rhododendron	127.53	
32 93 33 00-0536	EA	36" To 42" Rhododendron - Hybrid Rhododendron	182.36	
32 93 33 00-0537	EA	42" To 48" Rhododendron - Hybrid Rhododendron	226.02	
32 93 33 00-0538	EA	15" To 18" Rhododendron - Pjm Rhododendron	65.66	
32 93 33 00-0539	EA	18" To 24" Rhododendron - Pjm Rhododendron	80.27	
32 93 33 00-0540	EA	2' To 2-1/2' Rhododendron - Pjm Rhododendron	116.71	
32 93 33 00-0541	EA	2-1/2 To 3' Rhododendron - Pjm Rhododendron	149.53	
32 93 33 00-0542	EA	3' To 3-1/2' Rhododendron - Pjm Rhododendron	182.36	
32 93 33 00-0543	EA	12" To 15" Rhododendron - Torch Azalea	51.05	
32 93 33 00-0544	EA	15" To 18" Rhododendron - Torch Azalea	61.36	
32 93 33 00-0545	EA	18" To 24" Rhododendron - Torch Azalea	76.49	
32 93 33 00-0546	EA	2' To 3' Rhododendron - Torch Azalea	127.53	
32 93 33 00-0547	EA	3 Gallon Rhododendron cvs - Lepidote Rhododendron	57.60	
32 93 33 00-0548	EA	5 Gallon Rhododendron cvs - Lepidote Rhododendron	70.40	
32 93 33 00-0549	EA	18" B&B Rhododendron cvs - Lepidote Rhododendron	86.40	
32 93 33 00-0550	EA	24" B&B Rhododendron cvs - Lepidote Rhododendron	108.80	
32 93 33 00-0551	EA	30" B&B Rhododendron cvs - Lepidote Rhododendron	128.00	
32 93 33 00-0552	EA	36" B&B Rhododendron cvs - Lepidote Rhododendron	153.60	
32 93 33 00-0553	EA	1 Gallon Rhus glabra - Dwarf Smooth Sumac	16.50	
32 93 33 00-0554	EA	5 Gallon Rhus glabra - Dwarf Smooth Sumac	45.72	
32 93 33 00-0555	EA	2 Gallon Rhus aromatica & cvs - Fragrant Sumac	38.40	
32 93 33 00-0556	EA	5 Gallon Rhus aromatica & cvs - Fragrant Sumac	52.80	
32 93 33 00-0557	EA	18" B&B Rhus aromatica & cvs - Fragrant Sumac	60.80	
32 93 33 00-0558	EA	24" B&B Rhus aromatica & cvs - Fragrant Sumac	80.00	
32 93 33 00-0559	EA	36" B&B Rhus glabra - Smooth Sumac	48.00	
32 93 33 00-0560	EA	48" B&B Rhus typhina & cvs - Staghorn Sumac	80.00	
32 93 33 00-0561	EA	72" B&B Rhus typhina & cvs - Staghorn Sumac	128.00	
32 93 33 00-0562	EA	15" B&B Ribes alpinum & cvs - Alpine Currant	43.20	
32 93 33 00-0563	EA	18" B&B Ribes alpinum & cvs - Alpine Currant	49.60	
32 93 33 00-0564	EA	24" B&B Ribes alpinum & cvs - Alpine Currant	72.00	
32 93 33 00-0565	EA	30" B&B Ribes alpinum & cvs - Alpine Currant	96.00	
32 93 33 00-0566	EA	1 Gallon Rosa hybrids & cvs - Shrub Rose	26.40	
32 93 33 00-0567	EA	2 Gallon Rosa hybrids & cvs - Shrub Rose	32.00	
32 93 33 00-0568	EA	3 Gallon Rosa hybrids & cvs - Shrub Rose	40.00	
32 93 33 00-0569	EA	2 Gallon Rosa rugosa & cvs - Rugosa Rose	28.80	
32 93 33 00-0570	EA	3 Gallon Rosa rugosa & cvs - Rugosa Rose	36.80	
32 93 33 00-0571	EA	5 Gallon Sambucus canadensis - American Elder	52.80	
32 93 33 00-0572	EA	2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	23.72	
32 93 33 00-0573	EA	3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca	34.72	
32 93 33 00-0574	EA	1 Gallon Sarcococca humilis - Fragrant Sarcococca	12.89	
32 93 33 00-0575	EA	5 Gallon Sarcococca humilis - Fragrant Sarcococca	33.69	
32 93 33 00-0576	EA	1 Gallon Skimmia japonica - Japanese Skimmia	16.50	
32 93 33 00-0577	EA	2 Gallon Skimmia japonica - Japanese Skimmia	32.83	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0578	EA	5 Gallon Skimmia japonica - Japanese Skimmia	52.94	
32 93 33 00-0579	EA	3' To 4' Spiraea - Garland Spirea	76.49	
32 93 33 00-0580	EA	4' To 5' Spiraea - Garland Spirea	116.71	
32 93 33 00-0581	EA	5 Gallon Spiraea - Snowmound Spirea	45.72	
32 93 33 00-0582	EA	18" To 24" Spiraea - Snowmound Spirea	37.47	
32 93 33 00-0583	EA	2' To 3' Spiraea - Snowmound Spirea	52.94	
32 93 33 00-0584	EA	3' To 4' Spiraea - Snowmound Spirea	61.36	
32 93 33 00-0585	EA	4' To 5' Spiraea - Snowmound Spirea	105.71	
32 93 33 00-0586	EA	1 Gallon Spiraea japonica & cvs - Japanese Spirea	16.50	
32 93 33 00-0587	EA	2 Gallon Spiraea japonica & cvs - Japanese Spirea	32.49	
32 93 33 00-0588	EA	3 Gallon Spiraea japonica & cvs - Japanese Spirea	37.60	
32 93 33 00-0589	EA	5 Gallon Spiraea japonica & cvs - Japanese Spirea	40.80	
32 93 33 00-0590	EA	18" B&B Spiraea japonica & cvs - Japanese Spirea	41.60	
32 93 33 00-0591	EA	24" B&B Spiraea japonica & cvs - Japanese Spirea	48.00	
32 93 33 00-0592	EA	30" B&B Spiraea japonica & cvs - Japanese Spirea	54.40	
32 93 33 00-0593	EA	36" B&B Spiraea japonica & cvs - Japanese Spirea	63.20	
32 93 33 00-0594	EA	2 Gallon Spiraea nipponica & cvs - Nippon Spiraea	25.60	
32 93 33 00-0595	EA	5 Gallon Spiraea nipponica & cvs - Nippon Spiraea	38.40	
32 93 33 00-0596	EA	18" B&B Spiraea nipponica & cvs - Nippon Spiraea	35.20	
32 93 33 00-0597	EA	24" B&B Spiraea nipponica & cvs - Nippon Spiraea	41.60	
32 93 33 00-0598	EA	30" B&B Spiraea nipponica & cvs - Nippon Spiraea	48.00	
32 93 33 00-0599	EA	36" B&B Spiraea nipponica & cvs - Nippon Spiraea	54.40	
32 93 33 00-0600	EA	48" B&B Spiraea nipponica & cvs - Nippon Spiraea	70.40	
32 93 33 00-0601	EA	1 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	16.50	
32 93 33 00-0602	EA	2 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	29.60	
32 93 33 00-0603	EA	4 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	38.40	
32 93 33 00-0604	EA	18" B&B Spiraea x bumalda & cvs - Bumalda Spirea	33.60	
32 93 33 00-0605	EA	24" B&B Spiraea x bumalda & cvs - Bumalda Spirea	40.80	
32 93 33 00-0606	EA	30" B&B Spiraea x bumalda & cvs - Bumalda Spirea	48.00	
32 93 33 00-0607	EA	36" B&B Spiraea x bumalda & cvs - Bumalda Spirea	54.40	
32 93 33 00-0608	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea	38.40	
32 93 33 00-0609	EA	18" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	38.40	
32 93 33 00-0610	EA	24" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	44.80	
32 93 33 00-0611	EA	30" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	60.80	
32 93 33 00-0612	EA	36" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	70.40	
32 93 33 00-0613	EA	42" B&B Spiraea x vanhouttei & cvs - Vanhoutte Spirea	83.20	
32 93 33 00-0614	EA	5 Gallon Staphylea trifolia - Bladdernut	54.01	
32 93 33 00-0615	EA	2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	38.40	
32 93 33 00-0616	EA	5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	41.60	
32 93 33 00-0617	EA	24" B&B Stephanandra incisa & cvs - Cutleaf Stephanadra	48.00	
32 93 33 00-0618	EA	30" B&B Stephanandra incisa & cvs - Cutleaf Stephanadra	57.60	
32 93 33 00-0619	EA	2 Gallon Symphoricarpos albus - Common Snowberry	40.00	
32 93 33 00-0620	EA	5 Gallon Symphoricarpos albus - Common Snowberry	42.40	
32 93 33 00-0621	EA	24" B&B Syringa meyeri & cvs - Meyer Lilac	70.40	
32 93 33 00-0622	EA	30" B&B Syringa meyeri & cvs - Meyer Lilac	88.00	
32 93 33 00-0623	EA	36" B&B Syringa meyeri & cvs - Meyer Lilac	102.40	
32 93 33 00-0624	EA	42" B&B Syringa meyeri & cvs - Meyer Lilac	118.40	
32 93 33 00-0625	EA	18" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	70.40	
32 93 33 00-0626	EA	24" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	76.80	
32 93 33 00-0627	EA	30" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	88.00	
32 93 33 00-0628	EA	36" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	102.40	
32 93 33 00-0629	EA	42" B&B Syringa patula 'Miss Kim' - Miss Kim Lilac	118.40	
32 93 33 00-0630	EA	60" B&B Syringa villosa & cvs - Late Lilac	56.00	
32 93 33 00-0631	EA	72" B&B Syringa villosa & cvs - Late Lilac	60.80	
32 93 33 00-0632	EA	36" B&B Syringa vulgaris & cvs - Common Lilac	48.00	
32 93 33 00-0633	EA	42' B&B Syringa vulgaris & cvs - Common Lilac	54.40	
32 93 33 00-0634	EA	48" B&B Syringa vulgaris & cvs - Common Lilac	60.80	
32 93 33 00-0635	EA	60" B&B Syringa vulgaris & cvs - Common Lilac	70.40	
32 93 33 00-0636	EA	72" B&B Syringa vulgaris & cvs - Common Lilac	86.40	
32 93 33 00-0637	EA	5 Gallon Syringa x chinensis & cvs - Chinese Lilac	40.00	
32 93 33 00-0638	EA	36" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac	46.40	
32 93 33 00-0639	EA	48" B&B Syringa x hyacinthiflora & cvs - Hybrid Lilac	60.80	
32 93 33 00-0640	EA	48" B&B Taxus cuspidata capitata - Capitata Japanese Yew	254.39	
32 93 33 00-0641	EA	54" B&B Taxus cuspidata capitata - Capitata Japanese Yew	284.79	
32 93 33 00-0642	EA	60" B&B Taxus cuspidata capitata - Capitata Japanese Yew	313.59	
32 93 33 00-0643	EA	72" B&B Taxus cuspidata capitata - Capitata Japanese Yew	377.59	
32 93 33 00-0644	EA	18" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	67.20	
32 93 33 00-0645	EA	24" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	88.00	
32 93 33 00-0646	EA	30" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	102.40	
32 93 33 00-0647	EA	36" B&B Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	112.00	
32 93 33 00-0648	EA	15" B&B Taxus x media & cvs - Anglojap Yew	67.20	
32 93 33 00-0649	EA	18" B&B Taxus x media & cvs - Anglojap Yew	88.00	
32 93 33 00-0650	EA	24" B&B Taxus x media & cvs - Anglojap Yew	104.00	
32 93 33 00-0651	EA	30" B&B Taxus x media & cvs - Anglojap Yew	123.20	
32 93 33 00-0652	EA	36" B&B Taxus x media & cvs - Anglojap Yew	185.60	
32 93 33 00-0653	EA	36" B&B Thuja occidentalis & cvs - Upright Arborvitae	102.40	
32 93 33 00-0654	EA	48" B&B Thuja occidentalis & cvs - Upright Arborvitae	137.60	
32 93 33 00-0655	EA	60" B&B Thuja occidentalis & cvs - Upright Arborvitae	207.99	
32 93 33 00-0656	EA	72" B&B Thuja occidentalis & cvs - Upright Arborvitae	303.99	
32 93 33 00-0657	EA	84" B&B Thuja occidentalis & cvs - Upright Arborvitae	348.79	
32 93 33 00-0658	EA	96" B&B Thuja occidentalis & cvs - Upright Arborvitae	404.79	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0659	EA	15" B&B Thuja occidentalis cvs - Dwarf Arborvitae	44.80	
32 93 33 00-0660	EA	18" B&B Thuja occidentalis cvs - Dwarf Arborvitae	62.40	
32 93 33 00-0661	EA	24" B&B Thuja occidentalis cvs - Dwarf Arborvitae	88.00	
32 93 33 00-0662	EA	3' To 4' Viburnum dilatatum - Linden Viburnum	76.49	
32 93 33 00-0663	EA	4' To 5' Viburnum dilatatum - Linden Viburnum	116.71	
32 93 33 00-0664	EA	5' To 6' Viburnum dilatatum - Linden Viburnum	153.15	
32 93 33 00-0665	EA	1 Gallon Viburnum japonicum - Japanese Viburnum	9.28	
32 93 33 00-0666	EA	3 Gallon Viburnum japonicum - Japanese Viburnum	25.44	
32 93 33 00-0667	EA	5 Gallon Viburnum plicatum - Japanese Snowball	45.72	
32 93 33 00-0668	EA	5' To 6' Viburnum plicatum - Japanese Snowball	171.37	
32 93 33 00-0669	EA	2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum	80.27	
32 93 33 00-0670	EA	3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum	94.71	
32 93 33 00-0671	EA	4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum	133.21	
32 93 33 00-0672	EA	30" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum	88.00	
32 93 33 00-0673	EA	36" B&B Viburnum burkwoodii & cvs - Burkwood Viburnum	105.60	
32 93 33 00-0674	EA	24" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	80.00	
32 93 33 00-0675	EA	30" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	96.00	
32 93 33 00-0676	EA	36" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	112.00	
32 93 33 00-0677	EA	42" B&B Viburnum carlesii & cvs - Korean Spice Viburnum	128.00	
32 93 33 00-0678	EA	36" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	44.80	
32 93 33 00-0679	EA	42" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	48.00	
32 93 33 00-0680	EA	48" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	56.00	
32 93 33 00-0681	EA	60" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	64.00	
32 93 33 00-0682	EA	72" B&B Viburnum dentatum & cvs - Arrowwood Viburnum	70.40	
32 93 33 00-0683	EA	30" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	43.20	
32 93 33 00-0684	EA	36" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	48.00	
32 93 33 00-0685	EA	42" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	60.80	
32 93 33 00-0686	EA	48" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	70.40	
32 93 33 00-0687	EA	60" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	96.00	
32 93 33 00-0688	EA	72" B&B Viburnum lantana & cvs - Wayfaringtree Viburnum	115.20	
32 93 33 00-0689	EA	36" B&B Viburnum lentago & cvs - Nannyberry Viburnum	48.00	
32 93 33 00-0690	EA	48" B&B Viburnum lentago & cvs - Nannyberry Viburnum	64.00	
32 93 33 00-0691	EA	5' B&B Viburnum lentago & cvs - Nannyberry Viburnum	80.00	
32 93 33 00-0692	EA	6' B&B Viburnum lentago & cvs - Nannyberry Viburnum	112.00	
32 93 33 00-0693	EA	7' B&B Viburnum lentago & cvs - Nannyberry Viburnum	160.00	
32 93 33 00-0694	EA	8' B&B Viburnum lentago & cvs - Nannyberry Viburnum	223.99	
32 93 33 00-0695	EA	9' B&B Viburnum lentago & cvs - Nannyberry Viburnum	287.99	
32 93 33 00-0696	EA	30" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	57.60	
32 93 33 00-0697	EA	36" B&B Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	64.00	
32 93 33 00-0698	EA	36" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	115.20	
32 93 33 00-0699	EA	48" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	176.00	
32 93 33 00-0700	EA	60" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	223.99	
32 93 33 00-0701	EA	72" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	271.99	
32 93 33 00-0702	EA	84" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	335.99	
32 93 33 00-0703	EA	96" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	399.99	
32 93 33 00-0704	EA	108" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	479.99	
32 93 33 00-0705	EA	120" B&B Viburnum prunifolium & cvs - Blackhaw Viburnum	559.98	
32 93 33 00-0706	EA	30" B&B Viburnum sargenti & cvs - Sargent Viburnum	48.80	
32 93 33 00-0707	EA	36" B&B Viburnum sargenti & cvs - Sargent Viburnum	53.60	
32 93 33 00-0708	EA	48" B&B Viburnum sargenti & cvs - Sargent Viburnum	60.80	
32 93 33 00-0709	EA	60" B&B Viburnum sargenti & cvs - Sargent Viburnum	70.40	
32 93 33 00-0710	EA	72" B&B Viburnum sargenti & cvs - Sargent Viburnum	80.80	
32 93 33 00-0711	EA	18" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	46.40	
32 93 33 00-0712	EA	24" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	56.00	
32 93 33 00-0713	EA	30" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	67.20	
32 93 33 00-0714	EA	36" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	76.80	
32 93 33 00-0715	EA	42" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	92.80	
32 93 33 00-0716	EA	48" B&B Viburnum trilobum & cvs - American Cranberry Viburnum	102.40	
32 93 33 00-0717	EA	30" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	80.00	
32 93 33 00-0718	EA	36" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	96.00	
32 93 33 00-0719	EA	42" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	112.00	
32 93 33 00-0720	EA	48" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	128.00	
32 93 33 00-0721	EA	60" B&B Viburnum x carlcephalum & cvs - Fragrant Viburnum	144.00	
32 93 33 00-0722	EA	30" B&B Viburnum x juddii & cvs - Judd Viburnum	102.40	
32 93 33 00-0723	EA	36" B&B Viburnum x juddii & cvs - Judd Viburnum	115.20	
32 93 33 00-0724	EA	42" B&B Viburnum x juddii & cvs - Judd Viburnum	131.20	
32 93 33 00-0725	EA	48" B&B Viburnum x juddii & cvs - Judd Viburnum	150.40	
32 93 33 00-0726	EA	2' To 3' Viburum opulus "Roseum" - Fragrant Snowball	94.71	
32 93 33 00-0727	EA	3' To 4' Viburum opulus "Roseum" - Fragrant Snowball	116.71	
32 93 33 00-0728	EA	4' To 5' Viburum opulus "Roseum" - Fragrant Snowball	171.36	
32 93 33 00-0729	EA	5 Gallon Weigela florida & cvs - Old Fashioned Weigela	52.80	
32 93 33 00-0730	EA	24" B&B Weigela florida & cvs - Old Fashioned Weigela	48.00	
32 93 33 00-0731	EA	30" B&B Weigela florida & cvs - Old Fashioned Weigela	54.40	
32 93 33 00-0732	EA	36" B&B Weigela florida & cvs - Old Fashioned Weigela	60.80	
32 93 33 00-0733	EA	42" B&B Weigela florida & cvs - Old Fashioned Weigela	70.40	
32 93 33 00-0734	EA	48" B&B Weigela florida & cvs - Old Fashioned Weigela	80.00	
32 93 33 00-0735	EA	1 Gallon Xylosma congestum - Shiny Xylosma	11.00	
32 93 33 00-0736	EA	5 Gallon Xylosma congestum - Shiny Xylosma	31.11	
32 93 33 00-0737	EA	15 Gallon Xylosma congestum - Shiny Xylosma	136.82	
32 93 33 00-0738	EA	1 Gallon Yucca aloifolia - Spanish Bayonet	9.28	
32 93 33 00-0739	EA	3 Gallon Yucca aloifolia - Spanish Bayonet	24.58	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0740	EA	1 Gallon Yucca filamentosa - Adams Needle	12.89	
32 93 33 00-0741	EA	3 Gallon Yucca filamentosa - Adams Needle	25.09	
32 93 33 00-0742	EA	5 Gallon Yucca filamentosa - Adams Needle	39.71	
32 93 33 00-0743	EA	5 Gallon Border Forsythia - Goldenbells	44.17	
32 93 33 00-0744	EA	2' To 3' Border Forsythia - Goldenbells	36.44	
32 93 33 00-0745	EA	3' To 4' Border Forsythia - Goldenbells	46.06	
32 93 33 00-0746	EA	4' To 5' Border Forsythia - Goldenbells	57.41	
32 93 33 00-0747	EA	5' To 6' Border Forsythia - Goldenbells	68.92	
32 93 33 00-0748	EA	6' To 8' Border Forsythia - Goldenbells	94.71	
32 93 33 00-0749	EA	3' Juniperus chinensis - Columnar Chinese Juniper	93.84	
32 93 33 00-0750	EA	4' Juniperus chinensis - Columnar Chinese Juniper	128.80	
32 93 33 00-0751	EA	5' Juniperus chinensis - Columnar Chinese Juniper	202.39	
32 93 33 00-0752	EA	6' Juniperus chinensis - Columnar Chinese Juniper	235.51	
32 93 33 00-0753	EA	7' Juniperus chinensis - Columnar Chinese Juniper	309.11	
32 93 33 00-0754	EA	2 Gallon Chrysobalanus icaco - Cocoplum Red Tip	18.40	
32 93 33 00-0755	EA	3 Gallon Chrysobalanus icaco - Cocoplum Red Tip	25.76	
32 93 33 00-0756	EA	5 Gallon Chrysobalanus icaco - Cocoplum Red Tip	62.37	
32 93 33 00-0757	EA	2 Gallon Chrysobalanus icaco - Cocoplum Green Tip	18.40	
32 93 33 00-0758	EA	3 Gallon Chrysobalanus icaco - Cocoplum Green Tip	25.76	
32 93 33 00-0759	EA	Beile Poitvine Roses	73.60	
32 93 33 00-0760	EA	3 Gallon Bird Of Paradise	33.12	
32 93 33 00-0761	EA	5 Gallon Bird Of Paradise	51.52	
32 93 33 00-0762	EA	7 Gallon Bird Of Paradise	69.92	
32 93 33 00-0763	EA	10 Gallon Bird Of Paradise	139.84	
32 93 33 00-0764	EA	18" Bonica Roses	84.64	
32 93 33 00-0765	EA	1 Gallon Burmese Grape	14.72	
32 93 33 00-0766	EA	5 Gallon Burmese Grape	40.48	
32 93 33 00-0767	EA	15 Gallon Burmese Grape	150.88	
32 93 33 00-0768	EA	6" To 9" Canby Paxistima	29.44	
32 93 33 00-0769	EA	9" To 12" Canby Paxistima	36.80	
32 93 33 00-0770	EA	12" To 15" Canby Paxistima	47.84	
32 93 33 00-0771	EA	5 Gallon Chastetree	51.52	
32 93 33 00-0772	EA	3' Chinese Lilac	73.60	
32 93 33 00-0773	EA	4' Chinese Lilac	92.00	
32 93 33 00-0774	EA	5' Chinese Lilac	125.12	
32 93 33 00-0775	EA	1 Gallon Christmas Berry	18.40	
32 93 33 00-0776	EA	2 Gallon Christmas Berry	40.48	
32 93 33 00-0777	EA	5 Gallon Christmas Berry	58.88	
32 93 33 00-0778	EA	15 Gallon Christmas Berry	272.31	
32 93 33 00-0779	EA	1 Gallon Concha Wild Lilac	14.72	
32 93 33 00-0780	EA	5 Gallon Concha Wild Lilac	36.80	
32 93 33 00-0781	EA	1 Gallon Flower Carpet Roses	36.80	
32 93 33 00-0782	EA	3 Gallon Flower Carpet Roses	69.92	
32 93 33 00-0783	EA	Goldfinger Potentillas	58.88	
32 93 33 00-0784	EA	Green Mound Alpine Currents	73.60	
32 93 33 00-0785	EA	24" Gro-Low Sumacs	73.60	
32 93 33 00-0786	EA	3 Gallon Heliconia	33.12	
32 93 33 00-0787	EA	1' Ibolium Private	3.68	
32 93 33 00-0788	EA	2' Ibolium Private	14.72	
32 93 33 00-0789	EA	3' Ibolium Private	25.76	
32 93 33 00-0790	EA	5 Gallon Japanese Privit	40.48	
32 93 33 00-0791	EA	24" Spirea - Little Princess	77.28	
32 93 33 00-0792	EA	2' Longstalk Holly	73.60	
32 93 33 00-0793	EA	2-1/2' Longstalk Holly	99.36	
32 93 33 00-0794	EA	3' Longstalk Holly	125.12	
32 93 33 00-0795	EA	3-1/2' Longstalk Holly	139.84	
32 93 33 00-0796	EA	3 Gallon Low Dense Pyracantha	36.80	
32 93 33 00-0797	EA	1 Gallon Pacific Wax Myrtle	11.04	
32 93 33 00-0798	EA	5 Gallon Pacific Wax Myrtle	36.80	
32 93 33 00-0799	EA	1 Gallon Red Escallonia	11.04	
32 93 33 00-0800	EA	5 Gallon Red Escallonia	36.80	
32 93 33 00-0801	EA	15 Gallon Red Escallonia	150.88	
32 93 33 00-0802	EA	24" Smooth Hydrangeas	88.32	
32 93 33 00-0803	EA	15" To 18" Somerset Burkwood Daphne	58.88	
32 93 33 00-0804	EA	18" To 24" Somerset Burkwood Daphne	77.28	
32 93 33 00-0805	EA	1 Gallon Spring Bouquet Laurustinis	11.04	
32 93 33 00-0806	EA	5 Gallon Spring Bouquet Laurustinis	40.48	
32 93 33 00-0807	EA	15" To 18" Summersweet	44.16	
32 93 33 00-0808	EA	18" To 24" Summersweet	51.52	
32 93 33 00-0809	EA	2' Sweet Shrubs	58.88	
32 93 33 00-0810	EA	3' Sweet Shrubs	77.28	
32 93 33 00-0811	EA	1 Gallon Variegated Silverberry	11.04	
32 93 33 00-0812	EA	3 Gallon Variegated Silverberry	25.76	
32 93 33 00-0813	EA	15 Gallon Variegated Silverberry	150.88	
32 93 33 00-0814	EA	1 Gallon Variegated Winter Daphne	18.40	
32 93 33 00-0815	EA	5 Gallon Variegated Winter Daphne	58.88	
32 93 33 00-0816	EA	15 Gallon Variegated Winter Daphne	272.31	
32 93 33 00-0817	EA	2' To 3' Virginia Sweetspire	128.80	
32 93 33 00-0818	EA	1 Gallon Warminster Broom	18.40	
32 93 33 00-0819	EA	2 Gallon Warminster Broom	36.80	
32 93 33 00-0820	EA	5 Gallon Warminster Broom	51.52	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0821	EA	1 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	5.34	
32 93 33 00-0822	EA	5 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	16.42	
32 93 33 00-0823	EA	15 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	53.36	
32 93 33 00-0824	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy	13.68	
32 93 33 00-0825	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy	34.21	
32 93 33 00-0826	EA	5 Gallon Senna artemisioides - Feathery Cassia	16.42	
32 93 33 00-0827	EA	15 Gallon Senna artemisioides - Feathery Cassia	65.34	
32 93 33 00-0828	EA	24" Box Senna artemisioides - Feathery Cassia	205.24	

32 93 43 Trees *(32 93)*

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 93 43 00-0001 Deciduous Ornamental Trees *(32 93 43)*

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA	6' Clump Form Acer ginnala & cvs - Amur Maple	294.20	
32 93 43 00-0003	EA	7' Clump Form Acer ginnala & cvs - Amur Maple	359.58	
32 93 43 00-0004	EA	8' Clump Form Acer ginnala & cvs - Amur Maple	408.61	
32 93 43 00-0005	EA	10' Clump Form Acer ginnala & cvs - Amur Maple	473.99	
32 93 43 00-0006	EA	12' Clump Form Acer ginnala & cvs - Amur Maple	539.36	
32 93 43 00-0007	EA	14' Clump Form Acer ginnala & cvs - Amur Maple	637.43	
32 93 43 00-0008	EA	1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	238.78	
32 93 43 00-0009	EA	2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,046.04	
32 93 43 00-0010	EA	2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,307.55	
32 93 43 00-0011	EA	5' Clump Form Acer griseum - Paperbark Maple	261.51	
32 93 43 00-0012	EA	1-1/2" Caliper Aesculus californica - California Buckeye	653.77	
32 93 43 00-0013	EA	2" Caliper Aesculus californica - California Buckeye	849.91	
32 93 43 00-0014	EA	2-1/2" Caliper Aesculus californica - California Buckeye	980.66	
32 93 43 00-0015	EA	3" Caliper Aesculus californica - California Buckeye	1,111.42	
32 93 43 00-0016	EA	3-1/2" Caliper Aesculus californica - California Buckeye	1,307.55	
32 93 43 00-0017	EA	36" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	128.00	
32 93 43 00-0018	EA	48" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	160.00	
32 93 43 00-0019	EA	60" B&B Amelanchier alnifolia & cvs - Saskatoon Serviceberry	198.39	
32 93 43 00-0020	EA	60" B&B Amelanchier arborea & cvs - Downy Serviceberry	160.00	
32 93 43 00-0021	EA	72" B&B Amelanchier arborea & cvs - Downy Serviceberry	191.99	
32 93 43 00-0022	EA	7' B&B Amelanchier arborea & cvs - Downy Serviceberry	223.99	
32 93 43 00-0023	EA	8' B&B Amelanchier arborea & cvs - Downy Serviceberry	255.99	
32 93 43 00-0024	EA	5' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	287.99	
32 93 43 00-0025	EA	6' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	319.99	
32 93 43 00-0026	EA	7' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	367.99	
32 93 43 00-0027	EA	8' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	415.99	
32 93 43 00-0028	EA	9' B&B Amelanchier canadensis & cvs - Shadblow Serviceberry	479.99	
32 93 43 00-0029	EA	7' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	367.99	
32 93 43 00-0030	EA	8' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	431.99	
32 93 43 00-0031	EA	9' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	495.99	
32 93 43 00-0032	EA	10' B&B Amelanchier laevis & cvs - Allegheny Serviceberry	543.99	
32 93 43 00-0033	EA	30" B&B Amelanchier stolonifera & cvs - Running Serviceberry	128.00	
32 93 43 00-0034	EA	48" B&B Amelanchier stolonifera & cvs - Running Serviceberry	271.99	
32 93 43 00-0035	EA	60" B&B Amelanchier stolonifera & cvs - Running Serviceberry	351.99	
32 93 43 00-0036	EA	2' To 4' Amelemchier - Juneberry	38.96	
32 93 43 00-0037	EA	4' To 5' Amelemchier - Juneberry	40.87	
32 93 43 00-0038	EA	5' To 6' Amelemchier - Juneberry	48.66	
32 93 43 00-0039	EA	6' To 8' Amelemchier - Juneberry	58.06	
32 93 43 00-0040	EA	15 Gallon Chilopsis linearis - Desert Willow	58.32	
32 93 43 00-0041	EA	24" Box Chilopsis linearis - Desert Willow	187.83	
32 93 43 00-0042	EA	36" Box Chilopsis linearis - Desert Willow	494.28	
32 93 43 00-0043	EA	15 Gallon Chionanthus retusus - Chinese Fringe Tree	58.32	
32 93 43 00-0044	EA	24" Box Chionanthus retusus - Chinese Fringe Tree	158.17	
32 93 43 00-0045	EA	36" Box Chionanthus retusus - Chinese Fringe Tree	543.71	
32 93 43 00-0046	EA	1 Gallon Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	9.79	
32 93 43 00-0047	EA	5 Gallon Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	24.22	
32 93 43 00-0048	EA	15 Gallon Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	78.10	
32 93 43 00-0049	EA	1 Gallon Jacaranda mimosifolia - Jacaranda	6.43	
32 93 43 00-0050	EA	5 Gallon Jacaranda mimosifolia - Jacaranda	17.79	
32 93 43 00-0051	EA	15 Gallon Jacaranda mimosifolia - Jacaranda	48.44	
32 93 43 00-0052	EA	24" Box Jacaranda mimosifolia - Jacaranda	158.17	
32 93 43 00-0053	EA	36" Box Jacaranda mimosifolia - Jacaranda	444.85	
32 93 43 00-0054	EA	1 Gallon Koelreuteria bipinnata - Chinese Flame Tree	6.43	
32 93 43 00-0055	EA	5 Gallon Koelreuteria bipinnata - Chinese Flame Tree	17.79	
32 93 43 00-0056	EA	15 Gallon Koelreuteria bipinnata - Chinese Flame Tree	58.32	
32 93 43 00-0057	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	17.90	
32 93 43 00-0058	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	75.42	
32 93 43 00-0059	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	204.53	
32 93 43 00-0060	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	575.24	
32 93 43 00-0061	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	1,470.04	
32 93 43 00-0062	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum	17.90	
32 93 43 00-0063	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum	75.42	
32 93 43 00-0064	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	204.53	
32 93 43 00-0065	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	575.24	
32 93 43 00-0066	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	1,470.04	
32 93 43 00-0067	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	17.90	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0068	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	75.42	
32 93 43 00-0069	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	204.53	
32 93 43 00-0070	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	575.24	
32 93 43 00-0071	EA	48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	1,470.04	
32 93 43 00-0072	EA	15 Gallon Macadamia integrifolia - Smoothshell macadamia	148.28	
32 93 43 00-0073	EA	2' To 3' Magnolia Virginiana - Sweetbay Magnolia	61.95	
32 93 43 00-0074	EA	3' To 4' Magnolia Virginiana - Sweetbay Magnolia	92.92	
32 93 43 00-0075	EA	4' To 5' Magnolia Virginiana - Sweetbay Magnolia	116.16	
32 93 43 00-0076	EA	5' To 6' Magnolia Virginiana - Sweetbay Magnolia	144.67	
32 93 43 00-0077	EA	4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	245.17	
32 93 43 00-0078	EA	5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	326.89	
32 93 43 00-0079	EA	6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	424.95	
32 93 43 00-0080	EA	7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	473.99	
32 93 43 00-0081	EA	8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	572.05	
32 93 43 00-0082	EA	9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	637.43	
32 93 43 00-0083	EA	4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	245.17	
32 93 43 00-0084	EA	5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	326.89	
32 93 43 00-0085	EA	6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	424.95	
32 93 43 00-0086	EA	7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	473.99	
32 93 43 00-0087	EA	8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	572.05	
32 93 43 00-0088	EA	9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	637.43	
32 93 43 00-0089	EA	1 Gallon Melaleuca saligna (Callistemon salignus) - White Bottle Brush	5.68	
32 93 43 00-0090	EA	5 Gallon Melaleuca saligna (Callistemon salignus) - White Bottle Brush	27.19	
32 93 43 00-0091	EA	15 Gallon Melaleuca saligna (Callistemon salignus) - White Bottle Brush	46.96	
32 93 43 00-0092	EA	15 Gallon Melia azedarach - China Berry	56.34	
32 93 43 00-0093	EA	24" Box Melia azedarach - China Berry	185.84	
32 93 43 00-0094	EA	1 Gallon Pittosporum undulatum - Victorian Box	7.51	
32 93 43 00-0095	EA	5 Gallon Pittosporum undulatum - Victorian Box	16.18	
32 93 43 00-0096	EA	15 Gallon Pittosporum undulatum - Victorian Box	91.32	
32 93 43 00-0097	EA	24" Box Pittosporum undulatum - Victorian Box	219.62	
32 93 43 00-0098	EA	36" Box Pittosporum undulatum - Victorian Box	635.74	
32 93 43 00-0099	EA	48" Box Pittosporum undulatum - Victorian Box	1,444.88	
32 93 43 00-0100	EA	5 Gallon Platanus Racemosa - California Sycamore	17.79	
32 93 43 00-0101	EA	15 Gallon Platanus Racemosa - California Sycamore	48.44	
32 93 43 00-0102	EA	24" Box Platanus Racemosa - California Sycamore	158.17	
32 93 43 00-0103		36" Box Platanus Racemosa - California Sycamore	444.85	
32 93 43 00-0104	EA	1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	5.70	
32 93 43 00-0105	EA	5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	24.15	
32 93 43 00-0106	EA	20 Gallon Prunus subhirtella - Flowering Cherry	229.85	
32 93 43 00-0107	EA	1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry	237.60	
32 93 43 00-0108	EA	2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry	296.96	
32 93 43 00-0109	EA	3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry	619.74	
32 93 43 00-0110	EA	3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry	477.65	
32 93 43 00-0111	EA	4" To 5" Caliper Prunus subhirtella - Flowering Cherry	929.60	
32 93 43 00-0112	EA	5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	59.37	
32 93 43 00-0113	EA	15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	162.62	
32 93 43 00-0114	EA	20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	211.78	
32 93 43 00-0115	EA	5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	67.11	
32 93 43 00-0116	EA	6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	129.06	
32 93 43 00-0117	EA	1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	237.60	
32 93 43 00-0118	EA	2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	284.05	
32 93 43 00-0119	EA	1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry	185.97	
32 93 43 00-0120	EA	1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry	154.87	
32 93 43 00-0121	EA	1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry	227.15	
32 93 43 00-0122	EA	2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry	271.15	
32 93 43 00-0123	EA	2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry	348.59	
32 93 43 00-0124	EA	15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	179.46	
32 93 43 00-0125	EA	20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	224.32	
32 93 43 00-0126	EA	1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	233.29	
32 93 43 00-0127	EA	2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	278.15	
32 93 43 00-0128	EA	2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	376.86	
32 93 43 00-0129	EA	3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	493.50	
32 93 43 00-0130	EA	3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	628.09	
32 93 43 00-0131	EA	15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	179.46	
32 93 43 00-0132	EA	20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	224.32	
32 93 43 00-0133	EA	1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	152.54	
32 93 43 00-0134	EA	2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	233.29	
32 93 43 00-0135	EA	2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	277.91	
32 93 43 00-0136	EA	3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	376.86	
32 93 43 00-0137	EA	3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	493.50	
32 93 43 00-0138	EA	5 Gallon Pyrus calleryana 'Chanticleer' - Chanticleer Flowering Pear	21.97	
32 93 43 00-0139	EA	15 Gallon Pyrus calleryana 'Chanticleer' - Chanticleer Flowering Pear	57.12	
32 93 43 00-0140	EA	24" Box Pyrus calleryana 'Chanticleer' - Chanticleer Flowering Pear	197.71	
32 93 43 00-0141	EA	36" Box Pyrus calleryana 'Chanticleer' - Chanticleer Flowering Pear	527.23	
32 93 43 00-0142	EA	1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	326.89	
32 93 43 00-0143	EA	2" Caliper Pyrus calleryana & cvs - Callery Pear	408.61	
32 93 43 00-0144	EA	2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	506.67	
32 93 43 00-0145	EA	3" Caliper Pyrus calleryana & cvs - Callery Pear	572.05	
32 93 43 00-0146	EA	3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	637.43	
32 93 43 00-0147	EA	4" Caliper Pyrus calleryana & cvs - Callery Pear	817.22	
32 93 43 00-0148	EA	5 Gallon Quercus kelloggii - California Black Oak	44.49	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0149	EA	15 Gallon Quercus kelloggii - California Black Oak	79.08	
32 93 43 00-0150	EA	1 Gallon Quercus lobata - Valley Oak	8.89	
32 93 43 00-0151	EA	5 Gallon Quercus lobata - Valley Oak	26.68	
32 93 43 00-0152	EA	15 Gallon Quercus lobata - Valley Oak	80.06	
32 93 43 00-0153	EA	1 Gallon Ribes aureum - Golden Current	4.99	
32 93 43 00-0154	EA	5 Gallon Ribes aureum - Golden Current	14.27	
32 93 43 00-0155	EA	1 Gallon Ribes sanguineum - Red Flowering Currant	4.99	
32 93 43 00-0156	EA	5 Gallon Ribes sanguineum - Red Flowering Currant	14.27	
32 93 43 00-0157	EA	1 Gallon Ribes viburnifolium - Evergreen Currant	4.99	
32 93 43 00-0158	EA	5 Gallon Ribes viburnifolium - Evergreen Currant	14.27	
32 93 43 00-0159	EA	8' Cassia leptophlia - Gold Medallion Tree	249.16	
32 93 43 00-0160	EA	10' Cassia leptophlia - Gold Medallion Tree	316.24	
32 93 43 00-0161	EA	12' Cassia leptophlia - Gold Medallion Tree	383.32	
32 93 43 00-0162	EA	5 Gallon Celtis Sinensis - Chinese Hackberry	28.12	
32 93 43 00-0163	EA	15 Gallon Celtis Sinensis - Chinese Hackberry	74.14	
32 93 43 00-0164	EA	24" Box Celtis Sinensis - Chinese Hackberry	242.88	
32 93 43 00-0165	EA	36" Box Celtis Sinensis - Chinese Hackberry	709.46	
32 93 43 00-0166	EA	15 Gallon Cercis canadensis - American Redbud, Eastern Redbud	78.10	
32 93 43 00-0167	EA	24" Box Cercis canadensis - American Redbud, Eastern Redbud	187.83	
32 93 43 00-0168	EA	36" Box Cercis canadensis - American Redbud, Eastern Redbud	494.28	
32 93 43 00-0169	EA	1 Gallon Cercis occidentalis - Western Redbud	6.43	
32 93 43 00-0170	EA	5 Gallon Cercis occidentalis - Western Redbud	24.22	
32 93 43 00-0171	EA	15 Gallon Cercis occidentalis - Western Redbud	78.10	
32 93 43 00-0172	EA	24" Box Cercis occidentalis - Western Redbud	187.83	
32 93 43 00-0173	EA	36" Box Cercis occidentalis - Western Redbud	543.71	
32 93 43 00-0174	EA	1 Gallon Chitalpa tashkentensis - Chitalpa	4.45	
32 93 43 00-0175	EA	5 Gallon Chitalpa tashkentensis - Chitalpa	13.84	
32 93 43 00-0176	EA	15 Gallon Chitalpa tashkentensis - Chitalpa	48.44	
32 93 43 00-0177	EA	24" Box Chitalpa tashkentensis - Chitalpa	158.17	
32 93 43 00-0178	EA	36" Box Chitalpa tashkentensis - Chitalpa	444.85	
32 93 43 00-0179	EA	6' Magnolia grandiflora 'St. Mary's'	287.49	
32 93 43 00-0180	EA	8' Magnolia grandiflora 'St. Mary's'	507.90	
32 93 43 00-0181	EA	10' Magnolia grandiflora 'St. Mary's'	638.23	
32 93 43 00-0182	EA	12' Magnolia grandiflora 'St. Mary's'	766.64	
32 93 43 00-0183	EA	14' Magnolia grandiflora 'St. Mary's'	891.22	
32 93 43 00-0184	EA	16' Magnolia grandiflora 'St. Mary's'	1,054.13	
32 93 43 00-0185	EA	24" Box Magnolia grandiflora 'St. Mary's'	316.24	
32 93 43 00-0186	EA	6' Prunus cerasifera - Purple Leaf Plum	149.49	
32 93 43 00-0187	EA	8' Prunus cerasifera - Purple Leaf Plum	172.49	
32 93 43 00-0188	EA	10' Prunus cerasifera - Purple Leaf Plum	222.33	
32 93 43 00-0189	EA	24" Box Prunus cerasifera - Purple Leaf Plum	236.70	
32 93 43 00-0190	EA	30" Box Prunus cerasifera - Purple Leaf Plum	479.15	
32 93 43 00-0191	EA	36" Box Prunus cerasifera - Purple Leaf Plum	735.02	
32 93 43 00-0192	EA	6' Pittosporum phillyraeoides - Willow Pittorporum	312.41	
32 93 43 00-0193	EA	8' Pittosporum phillyraeoides - Willow Pittorporum	446.57	
32 93 43 00-0194	EA	10' Pittosporum phillyraeoides - Willow Pittorporum	534.73	
32 93 43 00-0195	EA	12' Pittosporum phillyraeoides - Willow Pittorporum	689.98	
32 93 43 00-0196	EA	6' Stenocarpus sinuatus - Firewheel Tree	459.98	
32 93 43 00-0197	EA	8' Stenocarpus sinuatus - Firewheel Tree	613.31	
32 93 43 00-0198	EA	10" Stenocarpus sinuatus - Firewheel Tree	766.64	
32 93 43 00-0199	EA	12' Stenocarpus sinuatus - Firewheel Tree	919.97	
32 93 43 00-0200	EA	24" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	219.62	
32 93 43 00-0201	EA	36" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	635.74	
32 93 43 00-0202	EA	1-1/2" Caliper Arbutus menziesii - Madrona	333.32	
32 93 43 00-0203	EA	2" Caliper Arbutus menziesii - Madrona	433.32	
32 93 43 00-0204	EA	2-1/2" Caliper Arbutus menziesii - Madrona	499.98	
32 93 43 00-0205	EA	3" Caliper Arbutus menziesii - Madrona	566.65	
32 93 43 00-0206	EA	3-1/2" Caliper Arbutus menziesii - Madrona	666.64	
32 93 43 00-0207	EA	1 Gallon Arbutus 'Marina' - Marina Strawberry Tree	6.43	
32 93 43 00-0208	EA	5 Gallon Arbutus 'Marina' - Marina Strawberry Tree	24.22	
32 93 43 00-0209	EA	15 Gallon Arbutus 'Marina' - Marina Strawberry Tree	78.10	
32 93 43 00-0210	EA	24" Box Arbutus 'Marina' - Marina Strawberry Tree	187.83	
32 93 43 00-0211	EA	36" Box Arbutus 'Marina' - Marina Strawberry Tree	604.12	
32 93 43 00-0212	EA	1 Gallon Arbutus unedo - Strawberry Tree	5.93	
32 93 43 00-0213	EA	5 Gallon Arbutus unedo - Strawberry Tree	17.79	
32 93 43 00-0214	EA	15 Gallon Arbutus unedo - Strawberry Tree	78.10	
32 93 43 00-0215	EA	24" Box Arbutus unedo - Strawberry Tree	187.83	
32 93 43 00-0216	EA	36" Box Arbutus unedo - Strawberry Tree	543.71	
32 93 43 00-0217	EA	1-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree	229.99	
32 93 43 00-0218	EA	2" Caliper Koelreuteria bipinnata - Chinese Flame Tree	373.74	
32 93 43 00-0219	EA	2-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree	459.98	
32 93 43 00-0220	EA	3" Caliper Koelreuteria bipinnata - Chinese Flame Tree	507.90	
32 93 43 00-0221	EA	24" Box Koelreuteria bipinnata - Chinese Flame Tree	224.24	
32 93 43 00-0222	EA	30" Box Koelreuteria bipinnata - Chinese Flame Tree	517.48	
32 93 43 00-0223	EA	36" Box Koelreuteria bipinnata - Chinese Flame Tree	809.76	
32 93 43 00-0224	EA	1-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree	208.91	
32 93 43 00-0225	EA	2" Cliber Koelreuteria paniculata - Golden Rain Tree	339.24	
32 93 43 00-0226	EA	2-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree	415.90	
32 93 43 00-0227	EA	3" Cliber Koelreuteria paniculata - Golden Rain Tree	469.57	
32 93 43 00-0228	EA	6' Magnolia grandiflora - Southern Magnolia	141.83	
32 93 43 00-0229	EA	7' Magnolia grandiflora - Southern Magnolia	214.66	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0230	EA	8' Magnolia grandiflora - Southern Magnolia	300.91	
32 93 43 00-0231	EA	9' Magnolia grandiflora - Southern Magnolia	400.57	
32 93 43 00-0232	EA	10' Magnolia grandiflora - Southern Magnolia	609.48	
32 93 43 00-0233	EA	24" Box Magnolia grandiflora - Southern Magnolia	249.16	
32 93 43 00-0234	EA	1-1/2" Caliper Tipuana tipu - Tipu Tree	297.07	
32 93 43 00-0235	EA	2" Caliper Tipuana tipu - Tipu Tree	387.15	
32 93 43 00-0236	EA	2-1/2" Caliper Tipuana tipu - Tipu Tree	490.65	
32 93 43 00-0237	EA	3" Caliper Tipuana tipu - Tipu Tree	565.40	
32 93 43 00-0238	EA	3-1/2" Caliper Tipuana tipu - Tipu Tree	831.80	
32 93 43 00-0239	EA	4" Caliper Tipuana tipu - Tipu Tree	1,111.63	
32 93 43 00-0240	EA	1 Gallon Tipuana tipu - Tipu Tree	6.43	
32 93 43 00-0241	EA	5 Gallon Tipuana tipu - Tipu Tree	17.79	
32 93 43 00-0242	EA	15 Gallon Tipuana tipu - Tipu Tree	58.32	
32 93 43 00-0243	EA	24" Box Tipuana tipu - Tipu Tree	224.24	
32 93 43 00-0244	EA	6' Albizia julibrissin - Silk Tree	459.98	
32 93 43 00-0245	EA	8' Albizia julibrissin - Silk Tree	613.31	
32 93 43 00-0246	EA	10' Albizia julibrissin - Silk Tree	766.64	
32 93 43 00-0247	EA	12' Albizia julibrissin - Silk Tree	919.97	
32 93 43 00-0248	EA	6' Brachychiton acerifolius - Flame Tree	459.98	
32 93 43 00-0249	EA	8' Brachychiton acerifolius - Flame Tree	613.31	
32 93 43 00-0250	EA	10' Brachychiton acerifolius - Flame Tree	766.64	
32 93 43 00-0251	EA	12' Brachychiton acerifolius - Flame Tree	919.97	
32 93 43 00-0252	EA	1-1/2" Caliper Chilopsis linearis - Desert Willow	371.82	
32 93 43 00-0253	EA	2" Caliper Chilopsis linearis - Desert Willow	446.57	
32 93 43 00-0254	EA	2-1/2" Caliper Chilopsis linearis - Desert Willow	475.32	
32 93 43 00-0255	EA	3" Caliper Chilopsis linearis - Desert Willow	527.06	
32 93 43 00-0256	EA	5 Gallon Chionanthus retusus - Chinese Fringe Tree	19.17	
32 93 43 00-0257	EA	15 Gallon Chionanthus retusus - Chinese Fringe Tree	76.66	
32 93 43 00-0258	EA	24" Box Chionanthus retusus - Chinese Fringe Tree	383.32	
32 93 43 00-0259	EA	1 Gallon Callistemon salignus - White BottleBrush	3.46	
32 93 43 00-0260	EA	5 Gallon Callistemon salignus - White BottleBrush	9.89	
32 93 43 00-0261	EA	15 Gallon Callistemon salignus - White BottleBrush	38.55	
32 93 43 00-0262	EA	24" Box Callistemon salignus - White BottleBrush	158.17	
32 93 43 00-0263	EA	5 Gallon Calodendrum capense - Cape Chestnut	28.75	
32 93 43 00-0264	EA	15 Gallon Calodendrum capense - Cape Chestnut	115.00	
32 93 43 00-0265	EA	24" Box Calodendrum capense - Cape Chestnut	431.24	
32 93 43 00-0266	EA	6' Chionanthus virginicus - White Fringe Tree	229.99	
32 93 43 00-0267	EA	8' Chionanthus virginicus - White Fringe Tree	526.29	
32 93 43 00-0268	EA	10' Chionanthus virginicus - White Fringe Tree	733.04	
32 93 43 00-0269	EA	15 Gallon Geijera parvifolia - Australian Willow	225.55	
32 93 43 00-0270	EA	24" Box Geijera parvifolia - Australian Willow	464.26	
32 93 43 00-0271	EA	30" Box Geijera parvifolia - Australian Willow	864.62	
32 93 43 00-0272	EA	36" Box Geijera parvifolia - Australian Willow	1,240.54	
32 93 43 00-0273	EA	5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	17.90	
32 93 43 00-0274	EA	15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	62.64	
32 93 43 00-0275	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	204.53	
32 93 43 00-0276	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	543.28	
32 93 43 00-0277	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	1,214.38	
32 93 43 00-0278	EA	5 Gallon Ginkgo biloba - Maidenhair Tree or Ginkgo	24.22	
32 93 43 00-0279	EA	15 Gallon Ginkgo biloba - Maidenhair Tree or Ginkgo	78.10	
32 93 43 00-0280	EA	24" Box Ginkgo biloba - Maidenhair Tree or Ginkgo	158.17	
32 93 43 00-0281	EA	36" Box Ginkgo biloba - Maidenhair Tree or Ginkgo	543.71	
32 93 43 00-0282	EA	1-1/2" Caliper Ginko Biloba - Maidenhair Tree	669.14	
32 93 43 00-0283	EA	2" Caliper Ginko Biloba - Maidenhair Tree	932.28	
32 93 43 00-0284	EA	2-1/2" Caliper Ginko Biloba - Maidenhair Tree	1,124.00	
32 93 43 00-0285	EA	3" Caliper Ginko Biloba - Maidenhair Tree	1,311.96	
32 93 43 00-0286	EA	3-1/2" Caliper Ginko Biloba - Maidenhair Tree	1,717.95	
32 93 43 00-0287	EA	4" Caliper Ginko Biloba - Maidenhair Tree	1,834.49	
32 93 43 00-0288	EA	4-1/2" Caliper Ginko Biloba - Maidenhair Tree	1,954.78	
32 93 43 00-0289	EA	24" Box Ginko Biloba - Maidenhair Tree	610.87	
32 93 43 00-0290	EA	15 Gallon Sapium sebiferum - Chinese Tallow Tree	225.55	
32 93 43 00-0291	EA	24" Box Sapium sebiferum - Chinese Tallow Tree	827.02	
32 93 43 00-0292	EA	4' To 5' Lagerstroemia indica - Crape Myrtle	240.59	
32 93 43 00-0293	EA	6' Lagerstroemia indica - Crape Myrtle	447.34	
32 93 43 00-0294	EA	8' Lagerstroemia indica - Crape Myrtle	462.38	
32 93 43 00-0295	EA	10' Lagerstroemia indica - Crape Myrtle	560.12	
32 93 43 00-0296	EA	24" Box Lagerstroemia indica - Crape Myrtle	439.83	

32 93 43 00-0297 Deciduous Shade Trees *(32 93 43)*

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0298	EA	3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple	204.30	
32 93 43 00-0299	EA	4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple	250.44	
32 93 43 00-0300	EA	4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple	326.22	
32 93 43 00-0301	EA	5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple	422.88	
32 93 43 00-0302	EA	2' To 2-1/2' Acer palmatum - Japanese Maple	21.55	
32 93 43 00-0303	EA	4' To 5' Acer palmatum - Japanese Maple	45.25	
32 93 43 00-0304	EA	5' To 6' Acer palmatum - Japanese Maple	59.26	
32 93 43 00-0305	EA	6' To 7' Acer palmatum - Japanese Maple	107.74	
32 93 43 00-0306	EA	7' To 8' Acer palmatum - Japanese Maple	150.84	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0307	EA	8' To 10' Acer palmatum - Japanese Maple	193.94	
32 93 43 00-0308	EA	10' To 12' Acer palmatum - Japanese Maple	258.58	
32 93 43 00-0309	EA	2" Caliper Acer platanoides & cvs - Norway Maple	109.84	
32 93 43 00-0310	EA	2" Caliper Acer platanoides & cvs - Norway Maple	133.72	
32 93 43 00-0311	EA	3" Caliper Acer platanoides & cvs - Norway Maple	171.92	
32 93 43 00-0312	EA	3-1/2" Caliper Acer platanoides & cvs - Norway Maple	200.58	
32 93 43 00-0313	EA	4" Caliper Acer platanoides & cvs - Norway Maple	214.90	
32 93 43 00-0314	EA	4-1/2" Caliper Acer platanoides & cvs - Norway Maple	234.01	
32 93 43 00-0315	EA	5" Caliper Acer platanoides & cvs - Norway Maple	262.66	
32 93 43 00-0316	EA	2" Caliper Acer rubrum & cvs - Red Maple	105.06	
32 93 43 00-0317	EA	2-1/2" Caliper Acer rubrum & cvs - Red Maple	133.72	
32 93 43 00-0318	EA	3" Caliper Acer rubrum & cvs - Red Maple	171.92	
32 93 43 00-0319	EA	3-1/2" Caliper Acer rubrum & cvs - Red Maple	210.13	
32 93 43 00-0320	EA	4" Caliper Acer rubrum & cvs - Red Maple	238.78	
32 93 43 00-0321	EA	4-1/2" Caliper Acer rubrum & cvs - Red Maple	276.99	
32 93 43 00-0322	EA	5" Caliper Acer rubrum & cvs - Red Maple	310.42	
32 93 43 00-0323	EA	8' Clump Form Acer rubrum & cvs - Red Maple	128.94	
32 93 43 00-0324	EA	10' Clump Form Acer rubrum & cvs - Red Maple	171.92	
32 93 43 00-0325	EA	12' Clump Form Acer rubrum & cvs - Red Maple	200.58	
32 93 43 00-0326	EA	14' Clump Form Acer rubrum & cvs - Red Maple	229.23	
32 93 43 00-0327	EA	16' Clump Form Acer rubrum & cvs - Red Maple	257.89	
32 93 43 00-0328	EA	18' Clump Form Acer rubrum & cvs - Red Maple	286.54	
32 93 43 00-0329	EA	2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	167.15	
32 93 43 00-0330	EA	2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	186.25	
32 93 43 00-0331	EA	3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	210.13	
32 93 43 00-0332	EA	3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	238.78	
32 93 43 00-0333	EA	4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	286.54	
32 93 43 00-0334	EA	2" Caliper Betula nigra - River Birch	119.39	
32 93 43 00-0335	EA	2-1/2" Caliper Betula nigra - River Birch	135.20	
32 93 43 00-0336	EA	3" Caliper Betula nigra - River Birch	152.82	
32 93 43 00-0337	EA	3-1/2" Caliper Betula nigra - River Birch	191.03	
32 93 43 00-0338	EA	4" Caliper Betula nigra - River Birch	214.90	
32 93 43 00-0339	EA	4-1/2" Caliper Betula nigra - River Birch	238.78	
32 93 43 00-0340	EA	5" Caliper Betula nigra - River Birch	262.66	
32 93 43 00-0341	EA	8' Clump Form Betula nigra - River Birch	109.84	
32 93 43 00-0342	EA	10' Clump Form Betula nigra - River Birch	124.17	
32 93 43 00-0343	EA	12' Clump Form Betula nigra - River Birch	143.27	
32 93 43 00-0344	EA	14' Clump Form Betula nigra - River Birch	167.15	
32 93 43 00-0345	EA	16' Clump Form Betula nigra - River Birch	191.03	
32 93 43 00-0346	EA	12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	143.27	
32 93 43 00-0347	EA	14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	171.92	
32 93 43 00-0348	EA	16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	200.58	
32 93 43 00-0349	EA	18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	238.78	
32 93 43 00-0350	EA	20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	248.33	
32 93 43 00-0351	EA	2" Caliper Carpinus betulus & cvs - European Hornbeam	191.03	
32 93 43 00-0352	EA	2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	214.90	
32 93 43 00-0353	EA	3" Caliper Carpinus betulus & cvs - European Hornbeam	248.33	
32 93 43 00-0354	EA	3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	300.87	
32 93 43 00-0355	EA	6' Clump Form Carpinus betulus & cvs - European Hornbeam	85.96	
32 93 43 00-0356	EA	7' Clump Form Carpinus betulus & cvs - European Hornbeam	119.39	
32 93 43 00-0357	EA	8' Clump Form Carpinus betulus & cvs - European Hornbeam	148.05	
32 93 43 00-0358	EA	2" Caliper Catalpa speciosa - Western Catalpa	105.06	
32 93 43 00-0359	EA	2-1/2" Caliper Catalpa speciosa - Western Catalpa	143.27	
32 93 43 00-0360	EA	3" Caliper Catalpa speciosa - Western Catalpa	186.25	
32 93 43 00-0361	EA	3-1/2" Caliper Catalpa speciosa - Western Catalpa	224.46	
32 93 43 00-0362	EA	4" Caliper Catalpa speciosa - Western Catalpa	257.89	
32 93 43 00-0363	EA	8' Clump Form Corylus cornuta californica - Western Filbert	133.72	
32 93 43 00-0364	EA	10' Clump Form Corylus cornuta californica - Western Filbert	162.37	
32 93 43 00-0365	EA	12' Clump Form Corylus cornuta californica - Western Filbert	191.03	
32 93 43 00-0366	EA	1-1/2" Caliper Diospyros - Persimmon	85.96	
32 93 43 00-0367	EA	2" Caliper Diospyros - Persimmon	105.06	
32 93 43 00-0368	EA	2-1/2" Caliper Diospyros - Persimmon	133.72	
32 93 43 00-0369	EA	3" Caliper Diospyros - Persimmon	167.15	
32 93 43 00-0370	EA	3-1/2" Caliper Diospyros - Persimmon	200.58	
32 93 43 00-0371	EA	2" Caliper Fagus sylvatica & cvs - European Beech	214.90	
32 93 43 00-0372	EA	2-1/2" Caliper Fagus sylvatica & cvs - European Beech	257.89	
32 93 43 00-0373	EA	3" Caliper Fagus sylvatica & cvs - European Beech	310.42	
32 93 43 00-0374	EA	3-1/2" Caliper Fagus sylvatica & cvs - European Beech	343.85	
32 93 43 00-0375	EA	4" Caliper Fagus sylvatica & cvs - European Beech	405.93	
32 93 43 00-0376	EA	4-1/2" Caliper Fagus sylvatica & cvs - European Beech	525.32	
32 93 43 00-0377	EA	5" Caliper Fagus sylvatica & cvs - European Beech	620.83	
32 93 43 00-0378	EA	2" Caliper Fraxinus americana & cvs - White Ash	119.39	
32 93 43 00-0379	EA	2-1/2" Caliper Fraxinus americana & cvs - White Ash	143.27	
32 93 43 00-0380	EA	3" Caliper Fraxinus americana & cvs - White Ash	181.47	
32 93 43 00-0381	EA	3-1/2" Caliper Fraxinus americana & cvs - White Ash	219.68	
32 93 43 00-0382	EA	4" Caliper Fraxinus americana & cvs - White Ash	257.89	
32 93 43 00-0383	EA	4-1/2" Caliper Fraxinus americana & cvs - White Ash	286.54	
32 93 43 00-0384	EA	5" Caliper Fraxinus americana & cvs - White Ash	334.30	
32 93 43 00-0385	EA	1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	167.15	
32 93 43 00-0386	EA	2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	186.25	
32 93 43 00-0387	EA	2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	210.13	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0388	EA	3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	234.01	
32 93 43 00-0389	EA	3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	262.66	
32 93 43 00-0390	EA	4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	286.54	
32 93 43 00-0391	EA	4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	429.81	
32 93 43 00-0392	EA	5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	477.57	
32 93 43 00-0393	EA	2" Caliper Gleditsia triocanthos inermis & cvs - Thornless Common Honeylocust	114.62	
32 93 43 00-0394	EA	2-1/2" Caliper Gleditsia triocanthos inermis & cvs - Thornless Common Honeylocust	143.27	
32 93 43 00-0395	EA	3" Caliper Gleditsia triocanthos inermis & cvs - Thornless Common Honeylocust	171.92	
32 93 43 00-0396	EA	3-1/2" Caliper Gleditsia triocanthos inermis & cvs - Thornless Common Honeylocust	200.58	
32 93 43 00-0397	EA	4" Caliper Gleditsia triocanthos inermis & cvs - Thornless Common Honeylocust	229.23	
32 93 43 00-0398	EA	4-1/2" Caliper Gleditsia triocanthos inermis & cvs - Thornless Common Honeylocust	257.89	
32 93 43 00-0399	EA	5" Caliper Gleditsia triocanthos inermis & cvs - Thornless Common Honeylocust	305.64	
32 93 43 00-0400	EA	10' - 12' Bursera Simaruba - Gumbo Limbo	60.41	
32 93 43 00-0401	EA	12' - 14' Bursera Simaruba - Gumbo Limbo	71.40	
32 93 43 00-0402	EA	14' - 16' Bursera Simaruba - Gumbo Limbo	98.86	
32 93 43 00-0403	EA	17' - 18' Bursera Simaruba - Gumbo Limbo	128.51	
32 93 43 00-0404	EA	19' - 20' Bursera Simaruba - Gumbo Limbo	142.79	
32 93 43 00-0405	EA	21' - 22' Bursera Simaruba - Gumbo Limbo	169.15	
32 93 43 00-0406	EA	1-1/2" Caliper Juglans californica - California Walnut	114.62	
32 93 43 00-0407	EA	2" Caliper Juglans californica - California Walnut	133.72	
32 93 43 00-0408	EA	2-1/2" Caliper Juglans californica - California Walnut	167.15	
32 93 43 00-0409	EA	3" Caliper Juglans californica - California Walnut	210.13	
32 93 43 00-0410	EA	3-1/2" Caliper Juglans californica - California Walnut	257.89	
32 93 43 00-0411	EA	4" Caliper Juglans californica - California Walnut	310.42	
32 93 43 00-0412	EA	4-1/2" Caliper Juglans californica - California Walnut	358.17	
32 93 43 00-0413	EA	5" Caliper Juglans californica - California Walnut	405.93	
32 93 43 00-0414	EA	5 Gallon Koelreuteria Paniculata - Goldenrain Tree	12.93	
32 93 43 00-0415	EA	15 Gallon Koelreuteria Paniculata - Goldenrain Tree	32.32	
32 93 43 00-0416	EA	20 Gallon Koelreuteria Paniculata - Goldenrain Tree	64.65	
32 93 43 00-0417	EA	55 Gallon Koelreuteria Paniculata - Goldenrain Tree	84.04	
32 93 43 00-0418	EA	1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree	61.41	
32 93 43 00-0419	EA	2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree	74.34	
32 93 43 00-0420	EA	2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree	103.43	
32 93 43 00-0421	EA	1-1/2" Caliper Liquidambar styraciflua - American Sweetgum	152.82	
32 93 43 00-0422	EA	2" Caliper Liquidambar styraciflua - American Sweetgum	191.03	
32 93 43 00-0423	EA	2-1/2" Caliper Liquidambar styraciflua - American Sweetgum	238.78	
32 93 43 00-0424	EA	3" Caliper Liquidambar styraciflua - American Sweetgum	286.54	
32 93 43 00-0425	EA	3-1/2" Caliper Liquidambar styraciflua - American Sweetgum	334.30	
32 93 43 00-0426	EA	1-1/2" Caliper Liriodendron tulipifera - Tulip Tree	152.82	
32 93 43 00-0427	EA	2" Caliper Liriodendron tulipifera - Tulip Tree	210.13	
32 93 43 00-0428	EA	2-1/2" Caliper Liriodendron tulipifera - Tulip Tree	248.33	
32 93 43 00-0429	EA	3" Caliper Liriodendron tulipifera - Tulip Tree	286.54	
32 93 43 00-0430	EA	3-1/2" Caliper Liriodendron tulipifera - Tulip Tree	324.74	
32 93 43 00-0431	EA	8' Clump Form Liriodendron tulipifera - Tulip Tree	114.62	
32 93 43 00-0432	EA	10' Clump Form Liriodendron tulipifera - Tulip Tree	205.35	
32 93 43 00-0433	EA	12' Clump Form Liriodendron tulipifera - Tulip Tree	248.33	
32 93 43 00-0434	EA	1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	152.82	
32 93 43 00-0435	EA	2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	191.03	
32 93 43 00-0436	EA	2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	238.78	
32 93 43 00-0437	EA	3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	286.54	
32 93 43 00-0438	EA	3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	334.30	
32 93 43 00-0439	EA	4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	66.86	
32 93 43 00-0440	EA	5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	76.41	
32 93 43 00-0441	EA	6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	90.74	
32 93 43 00-0442	EA	7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	114.62	
32 93 43 00-0443	EA	8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	143.27	
32 93 43 00-0444	EA	30" Box Platanus Occidentalis - Buttonwood Sycamore	207.48	
32 93 43 00-0445	EA	36" Box Platanus Occidentalis - Buttonwood Sycamore	301.79	
32 93 43 00-0446	EA	42" Box Platanus occidentalis - Buttonwood Sycamore	448.93	
32 93 43 00-0447	EA	1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore	69.42	
32 93 43 00-0448	EA	2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	83.00	
32 93 43 00-0449	EA	2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore	113.17	
32 93 43 00-0450	EA	3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	137.34	
32 93 43 00-0451	EA	8' To 10' Platanus occidentalis - Green Or Silver Buttonwood	57.12	
32 93 43 00-0452	EA	10' To 12' Platanus occidentalis - Green Or Silver Buttonwood	71.40	
32 93 43 00-0453	EA	12' To 14' Platanus occidentalis - Green Or Silver Buttonwood	126.32	
32 93 43 00-0454	EA	16' To 18' Platanus occidentalis - Green Or Silver Buttonwood	181.24	
32 93 43 00-0455	EA	2" Caliper Platanus x acerifolia & cvs - London Planetree	114.62	
32 93 43 00-0456	EA	2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree	138.49	
32 93 43 00-0457	EA	3" Caliper Platanus x acerifolia & cvs - London Planetree	167.15	
32 93 43 00-0458	EA	3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree	200.58	
32 93 43 00-0459	EA	4" Caliper Platanus x acerifolia & cvs - London Planetree	238.78	
32 93 43 00-0460	EA	2" Caliper Populus alba & cvs - White Poplar	114.62	
32 93 43 00-0461	EA	2-1/2" Caliper Populus alba & cvs - White Poplar	133.72	
32 93 43 00-0462	EA	3" Caliper Populus alba & cvs - White Poplar	152.82	
32 93 43 00-0463	EA	3-1/2" Caliper Populus alba & cvs - White Poplar	181.47	
32 93 43 00-0464	EA	4" Caliper Populus alba & cvs - White Poplar	200.58	
32 93 43 00-0465	EA	4-1/2" Caliper Populus alba & cvs - White Poplar	229.23	
32 93 43 00-0466	EA	2" Caliper Populus deltoides & cvs - Eastern Cottonwood	105.06	
32 93 43 00-0467	EA	2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	138.49	
32 93 43 00-0468	EA	3" Caliper Populus deltoides & cvs - Eastern Cottonwood	167.15	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0469	EA	3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	200.58	
32 93 43 00-0470	EA	4" Caliper Populus deltoides & cvs - Eastern Cottonwood	238.78	
32 93 43 00-0471	EA	1 Gallon Quercus agrifolia - Coast Live Oak	9.79	
32 93 43 00-0472	EA	5 Gallon Quercus agrifolia - Coast Live Oak	24.22	
32 93 43 00-0473	EA	15 Gallon Quercus agrifolia - Coast Live Oak	78.10	
32 93 43 00-0474	EA	24" Box Quercus agrifolia - Coast Live Oak	237.25	
32 93 43 00-0475	EA	2" Caliper Quercus palustris - Pin Oak	105.06	
32 93 43 00-0476	EA	2-1/2" Caliper Quercus palustris - Pin Oak	143.27	
32 93 43 00-0477	EA	3" Caliper Quercus palustris - Pin Oak	186.25	
32 93 43 00-0478	EA	3-1/2" Caliper Quercus palustris - Pin Oak	214.90	
32 93 43 00-0479	EA	4" Caliper Quercus palustris - Pin Oak	248.33	
32 93 43 00-0480	EA	4-1/2" Caliper Quercus palustris - Pin Oak	281.76	
32 93 43 00-0481	EA	5" Caliper Quercus palustris - Pin Oak	310.42	
32 93 43 00-0482	EA	2" Caliper Quercus shumardii - Shumard Oak	162.37	
32 93 43 00-0483	EA	2-1/2" Caliper Quercus shumardii - Shumard Oak	205.35	
32 93 43 00-0484	EA	3" Caliper Quercus shumardii - Shumard Oak	238.78	
32 93 43 00-0485	EA	3-1/2" Caliper Quercus shumardii - Shumard Oak	286.54	
32 93 43 00-0486	EA	4" Caliper Quercus shumardii - Shumard Oak	334.30	
32 93 43 00-0487	EA	4-1/2" Caliper Quercus shumardii - Shumard Oak	382.05	
32 93 43 00-0488	EA	5" Caliper Quercus shumardii - Shumard Oak	429.81	
32 93 43 00-0489	EA	24" Box Salix babylonica - Weeping Willow	120.71	
32 93 43 00-0490	EA	36" Box Salix babylonica - Weeping Willow	301.79	
32 93 43 00-0491	EA	1-1/2" To 2" Caliper Salix babylonica - Weeping Willow	69.42	
32 93 43 00-0492	EA	2" To 2-1/2" Caliper Salix babylonica - Weeping Willow	83.00	
32 93 43 00-0493	EA	2-1/2" To 3" Caliper Salix babylonica - Weeping Willow	90.54	
32 93 43 00-0494	EA	2' Thuja occidentalis - American Arborviatae	16.37	
32 93 43 00-0495	EA	2-1/2' Thuja occidentalis - American Arborviatae	17.68	
32 93 43 00-0496	EA	3' Thuja occidentalis - American Arborviatae	25.26	
32 93 43 00-0497	EA	4' Thuja occidentalis - American Arborviatae	34.71	
32 93 43 00-0498	EA	5' Thuja occidentalis - American Arborviatae	48.33	
32 93 43 00-0499	EA	6' Thuja occidentalis - American Arborviatae	67.00	
32 93 43 00-0500	EA	7' Thuja occidentalis - American Arborviatae	81.28	
32 93 43 00-0501	EA	8' Thuja occidentalis - American Arborviatae	114.23	
32 93 43 00-0502	EA	2" Caliper Tilia cordata & cvs - Littleleaf Linden	120.11	
32 93 43 00-0503	EA	2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	145.08	
32 93 43 00-0504	EA	3" Caliper Tilia cordata & cvs - Littleleaf Linden	167.15	
32 93 43 00-0505	EA	3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	205.35	
32 93 43 00-0506	EA	4" Caliper Tilia cordata & cvs - Littleleaf Linden	234.01	
32 93 43 00-0507	EA	4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	262.66	
32 93 43 00-0508	EA	5" Caliper Tilia cordata & cvs - Littleleaf Linden	291.31	
32 93 43 00-0509	EA	2" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm	133.72	
32 93 43 00-0510	EA	2-1/2" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm	152.82	
32 93 43 00-0511	EA	3" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm	167.15	
32 93 43 00-0512	EA	3-1/2" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm	181.47	
32 93 43 00-0513	EA	4" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm	200.58	
32 93 43 00-0514	EA	4-1/2" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm	238.78	
32 93 43 00-0515	EA	5" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm	281.76	
32 93 43 00-0516	EA	2" Caliper Ulmus x `Pioneer' - Pioneer Hybrid Elm	152.82	
32 93 43 00-0517	EA	2-1/2" Caliper Ulmus x `Pioneer' - Pioneer Hybrid Elm	167.15	
32 93 43 00-0518	EA	3" Caliper Ulmus x `Pioneer' - Pioneer Hybrid Elm	181.47	
32 93 43 00-0519	EA	3-1/2" Caliper Ulmus x `Pioneer' - Pioneer Hybrid Elm	200.58	
32 93 43 00-0520	EA	4" Caliper Ulmus x `Pioneer' - Pioneer Hybrid Elm	238.78	
32 93 43 00-0521	EA	4-1/2" Caliper Ulmus x `Pioneer' - Pioneer Hybrid Elm	281.76	
32 93 43 00-0522	EA	5" Caliper Ulmus x `Pioneer' - Pioneer Hybrid Elm	324.74	
32 93 43 00-0523	EA	2" Caliper Ulmus x `Regal' - Regal Hybrid Elm	152.82	
32 93 43 00-0524	EA	2-1/2" Mary-Louise Parker Ulmus x `Regal' - Regal Hybrid Elm	167.15	
32 93 43 00-0525	EA	3" Caliper Ulmus x `Regal' - Regal Hybrid Elm	181.47	
32 93 43 00-0526	EA	3-1/2" Caliper Ulmus x `Regal' - Regal Hybrid Elm	200.58	
32 93 43 00-0527	EA	4" Caliper Ulmus x `Regal' - Regal Hybrid Elm	238.78	
32 93 43 00-0528	EA	4-1/2" Caliper Ulmus x `Regal' - Regal Hybrid Elm	281.76	
32 93 43 00-0529	EA	5" Caliper Ulmus x `Regal' - Regal Hybrid Elm	324.74	
32 93 43 00-0530	EA	1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane	349.61	
32 93 43 00-0531	EA	2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	624.03	
32 93 43 00-0532	EA	2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane	913.49	
32 93 43 00-0533	EA	3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,135.28	
32 93 43 00-0534	EA	3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,469.85	
32 93 43 00-0535	EA	4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,672.84	
32 93 43 00-0536	EA	24" Box Platanus acerifolia "Bloodgold" - London Plane	439.83	
32 93 43 00-0537	EA	1-1/2" Caliper Quercus suber - Cork Oak	526.29	
32 93 43 00-0538	EA	2" Caliper Quercus suber - Cork Oak	729.28	
32 93 43 00-0539	EA	2-1/2" Caliper Quercus suber - Cork Oak	932.28	
32 93 43 00-0540	EA	3" Caliper Quercus suber - Cork Oak	1,165.35	
32 93 43 00-0541	EA	3-1/2" Caliper Quercus suber - Cork Oak	1,748.03	
32 93 43 00-0542	EA	4" Caliper Quercus suber - Cork Oak	2,255.52	
32 93 43 00-0543	EA	4-1/2" Caliper Quercus suber - Cork Oak	2,932.18	
32 93 43 00-0544	EA	1-1/2" Caliper Quercus ilex - Holly Oak	582.68	
32 93 43 00-0545	EA	2" Caliper Quercus ilex - Holly Oak	785.67	
32 93 43 00-0546	EA	2-1/2" Caliper Quercus ilex - Holly Oak	962.36	
32 93 43 00-0547	EA	3" Caliper Quercus ilex - Holly Oak	1,165.35	
32 93 43 00-0548	EA	3-1/2" Caliper Quercus ilex - Holly Oak	1,748.03	
32 93 43 00-0549	EA	4" Caliper Quercus ilex - Holly Oak	2,255.52	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0550		**Evergreen Trees** *(32 93 43)* Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.		
32 93 43 00-0551	EA	5 Gallon Araucaria heterophylla (Araucaria excelsa) - Norfolk Island Pine, Star Pine	20.81	
32 93 43 00-0552	EA	15 Gallon Araucaria heterophylla (Araucaria excelsa) - Norfolk Island Pine, Star Pine	144.49	
32 93 43 00-0553	EA	24" Box Araucaria heterophylla (Araucaria excelsa) - Norfolk Island Pine, Star Pine	288.98	
32 93 43 00-0554	EA	36" Box Araucaria heterophylla (Araucaria excelsa) - Norfolk Island Pine, Star Pine	693.54	
32 93 43 00-0555	EA	1 Gallon Bauhinia variegata (Bauhinia purpurea) - Purple Orchid Tree	6.43	
32 93 43 00-0556	EA	5 Gallon Bauhinia variegata (Bauhinia purpurea) - Purple Orchid Tree	24.22	
32 93 43 00-0557	EA	15 Gallon Bauhinia variegata (Bauhinia purpurea) - Purple Orchid Tree	78.10	
32 93 43 00-0558	EA	24" Box Bauhinia variegata (Bauhinia purpurea) - Purple Orchid Tree	187.83	
32 93 43 00-0559	EA	5 Gallon Bauhinia blakeana - Hong Kong Orchid Tree	17.79	
32 93 43 00-0560	EA	15 Gallon Bauhinia blakeana - Hong Kong Orchid Tree	78.10	
32 93 43 00-0561	EA	24" Box Bauhinia blakeana - Hong Kong Orchid Tree	187.83	
32 93 43 00-0562	EA	1 Gallon Callistemon viminalis - Weeping Bottlebrush	5.20	
32 93 43 00-0563	EA	5 Gallon Callistemon viminalis - Weeping Bottlebrush	16.18	
32 93 43 00-0564	EA	15 Gallon Callistemon viminalis - Weeping Bottlebrush	56.64	
32 93 43 00-0565	EA	24" Box Callistemon viminalis - Weeping Bottlebrush	184.94	
32 93 43 00-0566	EA	36" Box Callistemon viminalis - Weeping Bottlebrush	520.16	
32 93 43 00-0567	EA	2' To 3' Cedrus atlantica - Blue Atlas Cedar	16.54	
32 93 43 00-0568	EA	3' To 4' Cedrus atlantica - Blue Atlas Cedar	26.59	
32 93 43 00-0569	EA	4' To 5' Cedrus atlantica - Blue Atlas Cedar	39.51	
32 93 43 00-0570	EA	5' To 6' Cedrus atlantica - Blue Atlas Cedar	53.15	
32 93 43 00-0571	EA	7' To 8' Cedrus atlantica - Blue Atlas Cedar	75.47	
32 93 43 00-0572	EA	1 Gallon Cedrus deodara - Deodar Cedar	11.44	
32 93 43 00-0573	EA	5 Gallon Cedrus deodara - Deodar Cedar	20.81	
32 93 43 00-0574	EA	15 Gallon Cedrus deodara - Deodar Cedar	91.32	
32 93 43 00-0575	EA	24" Box Cedrus deodara - Deodar Cedar	288.98	
32 93 43 00-0576	EA	36" Box Cedrus deodara - Deodar Cedar	635.74	
32 93 43 00-0577	EA	6' To 8' Cedrus deodara - Indian Cedar	68.28	
32 93 43 00-0578	EA	8' To 10' Cedrus deodara - Indian Cedar	79.06	
32 93 43 00-0579	EA	10' To 12' Cedrus deodara - Indian Cedar	107.79	
32 93 43 00-0580	EA	12' To 14' Cedrus deodara - Indian Cedar	140.12	
32 93 43 00-0581	EA	14' To 16' Cedrus deodara - Indian Cedar	179.67	
32 93 43 00-0582	EA	5 Gallon Cedrus libani - Cedar of Lebanon	20.81	
32 93 43 00-0583	EA	15 Gallon Cedrus libani - Cedar of Lebanon	91.32	
32 93 43 00-0584	EA	24" Box Cedrus libani - Cedar of Lebanon	219.62	
32 93 43 00-0585	EA	36" Box Cedrus libani - Cedar of Lebanon	635.74	
32 93 43 00-0586	EA	15 Gallon Celtis australis - European Hackberry	75.13	
32 93 43 00-0587	EA	24" Box Celtis australis - European Hackberry	260.08	
32 93 43 00-0588	EA	15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	21.34	
32 93 43 00-0589	EA	18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	32.02	
32 93 43 00-0590	EA	2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	49.80	
32 93 43 00-0591	EA	3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	85.38	
32 93 43 00-0592	EA	1 Gallon Cinnamomum camphora - Camphor Tree	7.51	
32 93 43 00-0593	EA	5 Gallon Cinnamomum camphora - Camphor Tree	20.81	
32 93 43 00-0594	EA	15 Gallon Cinnamomum camphora - Camphor Tree	56.64	
32 93 43 00-0595	EA	24" Box Cinnamomum camphora - Camphor Tree	184.94	
32 93 43 00-0596	EA	36" Box Cinnamomum camphora - Camphor Tree	520.16	
32 93 43 00-0597	EA	5 Gallon Cupressocyparis leylandii - Leyland Cypress	11.74	
32 93 43 00-0598	EA	15 Gallon Cupressocyparis leylandii - Leyland Cypress	46.97	
32 93 43 00-0599	EA	4' To 5' Cupressocyparis leylandii - Leyland Cypress	20.55	
32 93 43 00-0600	EA	5' To 6' Cupressocyparis leylandii - Leyland Cypress	26.42	
32 93 43 00-0601	EA	6' To 7' Cupressocyparis leylandii - Leyland Cypress	41.10	
32 93 43 00-0602	EA	24" Box Cupressocyparis leylandii - Leyland Cypress	99.81	
32 93 43 00-0603	EA	1 Gallon Cupressus macrocarpa - Monterey Cypress	2.14	
32 93 43 00-0604	EA	5 Gallon Cupressus macrocarpa - Monterey Cypress	9.64	
32 93 43 00-0605	EA	15 Gallon Cupressus macrocarpa - Monterey Cypress	32.12	
32 93 43 00-0606	EA	5 Gallon Cupressus sempervirens - Italian Cypress	11.05	
32 93 43 00-0607	EA	15 Gallon Cupressus sempervirens - Italian Cypress	30.39	
32 93 43 00-0608	EA	1 Gallon Eriobotrya deflexa - Bronze Loquat	7.51	
32 93 43 00-0609	EA	5 Gallon Eriobotrya deflexa - Bronze Loquat	20.81	
32 93 43 00-0610	EA	15 Gallon Eriobotrya deflexa - Bronze Loquat	91.32	
32 93 43 00-0611	EA	24" Box Eriobotrya deflexa - Bronze Loquat	219.62	
32 93 43 00-0612	EA	36" Box Eriobotrya deflexa - Bronze Loquat	635.74	
32 93 43 00-0613	EA	1 Gallon Heteromeles arbutifolia - Toyon	7.51	
32 93 43 00-0614	EA	5 Gallon Heteromeles arbutifolia - Toyon	20.81	
32 93 43 00-0615	EA	15 Gallon Heteromeles arbutifolia - Toyon	69.34	
32 93 43 00-0616	EA	24" Box Heteromeles arbutifolia - Toyon	219.62	
32 93 43 00-0617	EA	1 Gallon Juniperus horizontalis "Bar Harbor' - Bar Harbor Juniper	3.25	
32 93 43 00-0618	EA	2 Gallon Juniperus horizontalis "Bar Harbor' - Bar Harbor Juniper	6.35	
32 93 43 00-0619	EA	3 Gallon Juniperus horizontalis "Bar Harbor' - Bar Harbor Juniper	7.87	
32 93 43 00-0620	EA	5 Gallon Juniperus horizontalis "Bar Harbor' - Bar Harbor Juniper	9.26	
32 93 43 00-0621	EA	1 Gallon Juniperus - Blue Sargent Juniper	3.25	
32 93 43 00-0622	EA	2 Gallon Juniperus - Blue Sargent Juniper	6.35	
32 93 43 00-0623	EA	3 Gallon Juniperus - Blue Sargent Juniper	7.87	
32 93 43 00-0624	EA	5 Gallon Juniperus - Blue Sargent Juniper	9.26	
32 93 43 00-0625	EA	5 Gallon Juniperus - Compact Pfitzer Juniper	9.26	
32 93 43 00-0626	EA	15" To 18" Juniperus - Compact Pfitzer Juniper	10.02	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0627	EA	18" To 24" Juniperus - Compact Pfitzer Juniper	12.09	
32 93 43 00-0628	EA	2' To 2 1/2' Juniperus - Compact Pfitzer Juniper	17.96	
32 93 43 00-0629	EA	2-1/2' To 3' Juniperus - Compact Pfitzer Juniper	20.79	
32 93 43 00-0630	EA	5' To 6' Juniperus - Fairview Juniper	30.97	
32 93 43 00-0631	EA	1 Gallon Juniperus - Hollywood Juniper	4.14	
32 93 43 00-0632	EA	5 Gallon Juniperus - Hollywood Juniper	11.54	
32 93 43 00-0633	EA	15 Gallon Juniperus - Hollywood Juniper	48.91	
32 93 43 00-0634	EA	4' To 5' Juniperus - Hollywood Juniper	32.33	
32 93 43 00-0635	EA	5' To 6' Juniperus - Hollywood Juniper	41.65	
32 93 43 00-0636	EA	1 Gallon Juniperus - Parson's Juniper	3.25	
32 93 43 00-0637	EA	2 Gallon Juniperus - Parson's Juniper	6.42	
32 93 43 00-0638	EA	3 Gallon Juniperus - Parson's Juniper	7.94	
32 93 43 00-0639	EA	5 Gallon Juniperus - Parson's Juniper	9.39	
32 93 43 00-0640	EA	5 Gallon Juniperus - Skyrocket Juniper	11.60	
32 93 43 00-0641	EA	15 Gallon Juniperus - Skyrocket Juniper	49.39	
32 93 43 00-0642	EA	2' To 3' Juniperus - Skyrocket Juniper	17.41	
32 93 43 00-0643	EA	3' To 4' Juniperus - Skyrocket Juniper	24.66	
32 93 43 00-0644	EA	4' To 5' Juniperus - Skyrocket Juniper	32.67	
32 93 43 00-0645	EA	5' To 6' Juniperus - Skyrocket Juniper	42.14	
32 93 43 00-0646	EA	6' To 8' Juniperus - Skyrocket Juniper	54.43	
32 93 43 00-0647	EA	1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	3.25	
32 93 43 00-0648	EA	2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	6.39	
32 93 43 00-0649	EA	3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	7.84	
32 93 43 00-0650	EA	5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	9.29	
32 93 43 00-0651	EA	1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	3.25	
32 93 43 00-0652	EA	2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	6.39	
32 93 43 00-0653	EA	3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	7.84	
32 93 43 00-0654	EA	5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	9.29	
32 93 43 00-0655	EA	1 Gallon Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	4.05	
32 93 43 00-0656	EA	5 Gallon Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	11.56	
32 93 43 00-0657	EA	15 Gallon Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	45.08	
32 93 43 00-0658	EA	24" Box Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	184.94	
32 93 43 00-0659	EA	36" Box Melaleuca citrina (Callistemon citrinus) - Lemon Bottlebrush	520.16	
32 93 43 00-0660	EA	1 Gallon Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	5.20	
32 93 43 00-0661	EA	5 Gallon Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	16.18	
32 93 43 00-0662	EA	15 Gallon Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	56.64	
32 93 43 00-0663	EA	24" Box Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	184.94	
32 93 43 00-0664	EA	36" Box Melaleuca viminalis (Callistemon viminalis) - Weeping Bottle Brush	520.16	
32 93 43 00-0665	EA	1 Gallon Metrosideros excelsa - New Zealand Christmas Tree	6.43	
32 93 43 00-0666	EA	5 Gallon Metrosideros excelsa - New Zealand Christmas Tree	24.22	
32 93 43 00-0667	EA	15 Gallon Metrosideros excelsa - New Zealand Christmas Tree	78.10	
32 93 43 00-0668	EA	24" Box Olea europaea 'Swan Hill' - Swan Hill Olive	288.98	
32 93 43 00-0669	EA	36" Box Olea europaea 'Swan Hill' - Swan Hill Olive	693.54	
32 93 43 00-0670	EA	3' Pinus sylvestris - Scotch Pine	30.17	
32 93 43 00-0671	EA	4' Pinus sylvestris - Scotch Pine	41.88	
32 93 43 00-0672	EA	5' Pinus sylvestris - Scotch Pine	58.79	
32 93 43 00-0673	EA	6' Pinus sylvestris - Scotch Pine	81.56	
32 93 43 00-0674	EA	7' Pinus sylvestris - Scotch Pine	99.94	
32 93 43 00-0675	EA	8' Pinus sylvestris - Scotch Pine	141.08	
32 93 43 00-0676	EA	9' Pinus sylvestris - Scotch Pine	179.11	
32 93 43 00-0677	EA	10' Pinus sylvestris - Scotch Pine	206.67	
32 93 43 00-0678	EA	12' Pinus sylvestris - Scotch Pine	243.41	
32 93 43 00-0679	EA	14' Pinus sylvestris - Scotch Pine	275.56	
32 93 43 00-0680	EA	16' Pinus sylvestris - Scotch Pine	321.48	
32 93 43 00-0681	EA	1 Gallon Pinus thunbergiana - Japanese Black Pine	3.25	
32 93 43 00-0682	EA	5 Gallon Pinus thunbergiana - Japanese Black Pine	11.54	
32 93 43 00-0683	EA	15 Gallon Pinus thunbergiana - Japanese Black Pine	37.37	
32 93 43 00-0684	EA	2' To 3' Pinus thunbergiana - Japanese Black Pine	15.82	
32 93 43 00-0685	EA	3' To 4' Pinus thunbergiana - Japanese Black Pine	20.10	
32 93 43 00-0686	EA	4' To 5' Pinus thunbergiana - Japanese Black Pine	30.19	
32 93 43 00-0687	EA	5' To 6' Pinus thunbergiana - Japanese Black Pine	58.92	
32 93 43 00-0688	EA	6' To 7' Pinus Thunbergiana - Japanese Black Pine	66.11	
32 93 43 00-0689	EA	7' To 8' Pinus thunbergiana - Japanese Black Pine	82.61	
32 93 43 00-0690	EA	6' Pinus flexilis & cvs - Limber Pine	114.82	
32 93 43 00-0691	EA	7' Pinus flexilis & cvs - Limber Pine	133.19	
32 93 43 00-0692	EA	8' Pinus flexilis & cvs - Limber Pine	165.33	
32 93 43 00-0693	EA	9' Pinus flexilis & cvs - Limber Pine	202.07	
32 93 43 00-0694	EA	10' Pinus flexilis & cvs - Limber Pine	229.63	
32 93 43 00-0695	EA	1 Gallon Pinus mugo - Mugho Pine	4.28	
32 93 43 00-0696	EA	2 Gallon Pinus mugo - Mugho Pine	9.05	
32 93 43 00-0697	EA	3 Gallon Pinus mugo - Mugho Pine	11.33	
32 93 43 00-0698	EA	5 Gallon Pinus mugo - Mugho Pine	14.37	
32 93 43 00-0699	EA	12" To 15" Spread Pinus mugo - Mugho Pine	11.12	
32 93 43 00-0700	EA	15" To 18" Spread Pinus mugo - Mugho Pine	13.26	
32 93 43 00-0701	EA	18" To 24" Spread Pinus mugo - Mugho Pine	17.96	
32 93 43 00-0702	EA	2' To 2-1/2' Spread Pinus mugo - Mugho Pine	25.14	
32 93 43 00-0703	EA	2-1/2' To 3' Spread Pinus mugo - Mugho Pine	32.33	
32 93 43 00-0704	EA	3' To 3-1/2' Spread Pinus mugo - Mugho Pine	40.27	
32 93 43 00-0705	EA	3-1/2' To 4' Spread Pinus mugo - Mugho Pine	48.91	
32 93 43 00-0706	EA	6' Pinus nigra - Austrian Pine	114.82	
32 93 43 00-0707	EA	7' Pinus nigra - Austrian Pine	137.78	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0708	EA	8' Pinus nigra - Austrian Pine	179.11	
32 93 43 00-0709	EA	9' Pinus nigra - Austrian Pine	206.67	
32 93 43 00-0710	EA	10' Pinus nigra - Austrian Pine	243.41	
32 93 43 00-0711	EA	12' Pinus nigra - Austrian Pine	275.56	
32 93 43 00-0712	EA	14' Pinus nigra - Austrian Pine	307.70	
32 93 43 00-0713	EA	16' Pinus nigra - Austrian Pine	349.04	
32 93 43 00-0714	EA	1 Gallon Podocarpus - Chinese Podocarpus	2.14	
32 93 43 00-0715	EA	3 Gallon Podocarpus - Chinese Podocarpus	4.97	
32 93 43 00-0716	EA	7 Gallon Podocarpus - Chinese Podocarpus	14.37	
32 93 43 00-0717	EA	15 Gallon Podocarpus - Chinese Podocarpus	23.35	
32 93 43 00-0718	EA	4' To 5' Podocarpus - Chinese Podocarpus	35.92	
32 93 43 00-0719	EA	5' To 6' Sequoia sempervirens - Dawn Redwood	44.90	
32 93 43 00-0720	EA	6' To 8' Sequoia sempervirens - Dawn Redwood	60.61	
32 93 43 00-0721	EA	8' To 10' Sequoia sempervirens - Dawn Redwood	74.08	
32 93 43 00-0722	EA	3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae	8.66	
32 93 43 00-0723	EA	3' To 4' Thuja occidentalis ' Woodwadrii' - Woodward Arborvitae	30.16	
32 93 43 00-0724	EA	4' Metrosideros excelsus - New Zealand Christmas Tree	65.49	
32 93 43 00-0725	EA	5' Metrosideros excelsus - New Zealand Christmas Tree	88.73	
32 93 43 00-0726	EA	6' Metrosideros excelsus - New Zealand Christmas Tree	151.05	
32 93 43 00-0727	EA	8' Metrosideros excelsus - New Zealand Christmas Tree	186.97	
32 93 43 00-0728	EA	24" Box Metrosideros excelsus - New Zealand Christmas Tree	158.17	
32 93 43 00-0729	EA	1 Gallon Photinia fraseri - Fraser's Photinia	5.20	
32 93 43 00-0730	EA	5 Gallon Photinia fraseri - Fraser's Photinia	45.08	
32 93 43 00-0731	EA	15 Gallon Photinia fraseri - Fraser's Photinia	68.20	
32 93 43 00-0732	EA	24" Box Photinia fraseri - Fraser's Photinia	219.62	
32 93 43 00-0733	EA	6' Cedrus decurrens - Incese Cedar	77.11	
32 93 43 00-0734	EA	8' Cedrus decurrens - Incese Cedar	159.50	
32 93 43 00-0735	EA	10' Cedrus decurrens - Incese Cedar	211.26	
32 93 43 00-0736	EA	12' Cedrus decurrens - Incese Cedar	279.92	
32 93 43 00-0737	EA	6' Pinus canariensis - Canary Island Pine	253.51	
32 93 43 00-0738	EA	8' Pinus canariensis - Canary Island Pine	338.02	
32 93 43 00-0739	EA	10' Pinus canariensis - Canary Island Pine	422.52	
32 93 43 00-0740	EA	12' Pinus canariensis - Canary Island Pine	507.02	
32 93 43 00-0741	EA	1 Gallon Pinus canariensis - Canary Island Pine	7.51	
32 93 43 00-0742	EA	5 Gallon Pinus canariensis - Canary Island Pine	20.81	
32 93 43 00-0743	EA	15 Gallon Pinus canariensis - Canary Island Pine	68.20	
32 93 43 00-0744	EA	24" Box Pinus canariensis - Canary Island Pine	260.91	
32 93 43 00-0745	EA	1 Gallon Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine	5.20	
32 93 43 00-0746	EA	5 Gallon Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine	16.18	
32 93 43 00-0747	EA	15 Gallon Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine	56.64	
32 93 43 00-0748	EA	24" Box Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine	184.94	
32 93 43 00-0749	EA	36" Box Pinus eldarica - Eldarica Pine, Afghan Pine, Mondell Pine	520.16	
32 93 43 00-0750	EA	1 Gallon Pinus halepensis - Aleppo Pine	5.20	
32 93 43 00-0751	EA	5 Gallon Pinus halepensis - Aleppo Pine	16.18	
32 93 43 00-0752	EA	15 Gallon Pinus halepensis - Aleppo Pine	56.64	
32 93 43 00-0753	EA	24" Box Pinus halepensis - Aleppo Pine	184.94	
32 93 43 00-0754	EA	36" Box Pinus halepensis - Aleppo Pine	520.16	
32 93 43 00-0755	EA	1 Gallon Pinus muricata - Bishop Pine	11.55	
32 93 43 00-0756	EA	5 Gallon Pinus muricata - Bishop Pine	34.67	
32 93 43 00-0757	EA	15 Gallon Pinus patula - Jelecote Pine, Mexican Weeping Pine	75.13	
32 93 43 00-0758	EA	24" Box Pinus patula - Jelecote Pine, Mexican Weeping Pine	260.08	
32 93 43 00-0759	EA	6' Pinus pinea - Italian Stone Pine	253.51	
32 93 43 00-0760	EA	8' Pinus pinea - Italian Stone Pine	338.02	
32 93 43 00-0761	EA	10' Pinus pinea - Italian Stone Pine	422.52	
32 93 43 00-0762	EA	12' Pinus pinea - Italian Stone Pine	507.02	
32 93 43 00-0763	EA	1 Gallon Pinus pinea - Italian Stone Pine	8.93	
32 93 43 00-0764	EA	5 Gallon Pinus pinea - Italian Stone Pine	24.72	
32 93 43 00-0765	EA	15 Gallon Pinus pinea - Italian Stone Pine	81.02	
32 93 43 00-0766	EA	24" Box Pinus pinea - Italian Stone Pine	219.71	
32 93 43 00-0767	EA	36" Box Pinus pinea - Italian Stone Pine	617.94	
32 93 43 00-0768	EA	1 Gallon Rhus lancea - African Sumac	7.51	
32 93 43 00-0769	EA	5 Gallon Rhus lancea - African Sumac	20.81	
32 93 43 00-0770	EA	15 Gallon Rhus lancea - African Sumac	56.64	
32 93 43 00-0771	EA	6' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	264.08	
32 93 43 00-0772	EA	8' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	348.58	
32 93 43 00-0773	EA	10' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	443.65	
32 93 43 00-0774	EA	12' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	528.15	
32 93 43 00-0775	EA	24" Box Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	123.59	
32 93 43 00-0776	EA	1 Gallon Laurus nobilis - Sweet Bay	5.20	
32 93 43 00-0777	EA	5 Gallon Laurus nobilis - Sweet Bay	16.18	
32 93 43 00-0778	EA	15 Gallon Laurus nobilis - Sweet Bay	56.64	
32 93 43 00-0779	EA	24" Box Laurus nobilis - Sweet Bay	184.94	
32 93 43 00-0780	EA	36" Box Laurus nobilis - Sweet Bay	635.74	
32 93 43 00-0781	EA	5 Gallon Lophostemon confertus (Tristania conferta) - Brisbane Box	16.18	
32 93 43 00-0782	EA	15 Gallon Lophostemon confertus (Tristania conferta) - Brisbane Box	56.64	
32 93 43 00-0783	EA	24" Box Lophostemon confertus (Tristania conferta) - Brisbane Box	184.94	
32 93 43 00-0784	EA	36" Box Lophostemon confertus (Tristania conferta) - Brisbane Box	520.16	
32 93 43 00-0785	EA	1 Gallon Lyonothamnus floribundus - Catalina Ironwood	11.44	
32 93 43 00-0786	EA	5 Gallon Lyonothamnus floribundus - Catalina Ironwood	28.32	
32 93 43 00-0787	EA	15 Gallon Lyonothamnus floribundus - Catalina Ironwood	144.49	
32 93 43 00-0788	EA	24" Box Lyonothamnus floribundus - Catalina Ironwood	288.98	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0789	EA	1 Gallon Lyonothamnus floribundus ssp. asplenifolius - Catalinia Ironwood	11.55	
32 93 43 00-0790	EA	5 Gallon Lyonothamnus floribundus ssp. asplenifolius - Catalinia Ironwood	34.67	
32 93 43 00-0791	EA	6' Melaleuca linariifolia - Flaxleaf Paperbark	221.82	
32 93 43 00-0792	EA	8' Melaleuca linariifolia - Flaxleaf Paperbark	295.76	
32 93 43 00-0793	EA	10' Melaleuca linariifolia - Flaxleaf Paperbark	369.70	
32 93 43 00-0794	EA	12' Melaleuca linariifolia - Flaxleaf Paperbark	443.65	
32 93 43 00-0795	EA	1 Gallon Melaleuca linariifolia - Flaxleaf Paperbark	6.18	
32 93 43 00-0796	EA	5 Gallon Melaleuca linariifolia - Flaxleaf Paperbark	19.22	
32 93 43 00-0797	EA	15 Gallon Melaleuca linariifolia - Flaxleaf Paperbark	67.29	
32 93 43 00-0798	EA	24" Box Melaleuca linariifolia - Flaxleaf Paperbark	219.71	
32 93 43 00-0799	EA	6' Melaleuca quinquenervia - Cajeput Tree	221.82	
32 93 43 00-0800	EA	8' Melaleuca quinquenervia - Cajeput Tree	295.76	
32 93 43 00-0801	EA	10' Melaleuca quinquenervia - Cajeput Tree	369.70	
32 93 43 00-0802	EA	12' Melaleuca quinquenervia - Cajeput Tree	443.65	
32 93 43 00-0803	EA	24" Box Melaleuca quinquenervia - Cajeput Tree	123.59	
32 93 43 00-0804	EA	30" Box Melaleuca quinquenervia - Cajeput Tree	311.61	
32 93 43 00-0805	EA	36" Box Melaleuca quinquenervia - Cajeput Tree	491.18	
32 93 43 00-0806	EA	1 Gallon Pinus torreyana - Torrey Pine	11.44	
32 93 43 00-0807	EA	5 Gallon Pinus torreyana - Torrey Pine	28.32	
32 93 43 00-0808	EA	15 Gallon Pinus torreyana - Torrey Pine	91.32	
32 93 43 00-0809	EA	24" Box Pinus torreyana - Torrey Pine	219.62	
32 93 43 00-0810	EA	36" Box Pinus torreyana - Torrey Pine	635.74	
32 93 43 00-0811	EA	6' Pittosporum undulatum - Victorian Box	139.43	
32 93 43 00-0812	EA	8' Pittosporum undulatum - Victorian Box	220.77	
32 93 43 00-0813	EA	10' Pittosporum undulatum - Victorian Box	290.48	
32 93 43 00-0814	EA	1 Gallon Podocarpus macrophyllus - Yew Pine	4.91	
32 93 43 00-0815	EA	3 Gallon Podocarpus macrophyllus - Yew Pine	11.51	
32 93 43 00-0816	EA	5 Gallon Podocarpus macrophyllus - Yew Pine	15.11	
32 93 43 00-0817	EA	15 Gallon Podocarpus macrophyllus - Yew Pine	65.49	
32 93 43 00-0818	EA	24" Box Podocarpus macrophyllus - Yew Pine	126.76	
32 93 43 00-0819	EA	15 Gallon Prosopis alba 'Colorado' - Argentine Mesquite	65.87	
32 93 43 00-0820	EA	24" Box Prosopis alba 'Colorado' - Argentine Mesquite	228.86	
32 93 43 00-0821	EA	15 Gallon Prosopis hybrid 'Phoenix' - Phoenix Mesquite	65.87	
32 93 43 00-0822	EA	24" Box Prosopis hybrid 'Phoenix' - Phoenix Mesquite	228.86	
32 93 43 00-0823	EA	1 Gallon Prunus ilicifolia ssp lyonii (Prunus lyonii) - Catalina Cherry	7.51	
32 93 43 00-0824	EA	5 Gallon Prunus ilicifolia ssp lyonii (Prunus lyonii) - Catalina Cherry	28.32	
32 93 43 00-0825	EA	15 Gallon Prunus ilicifolia ssp lyonii (Prunus lyonii) - Catalina Cherry	63.57	
32 93 43 00-0826	EA	24" Box Prunus ilicifolia ssp lyonii (Prunus lyonii) - Catalina Cherry	219.62	
32 93 43 00-0827	EA	24" Box Quercus engelmannii - Mesa Oak	277.42	
32 93 43 00-0828	EA	36" Box Quercus engelmannii - Mesa Oak	693.54	
32 93 43 00-0829	EA	5 Gallon Quillaja saponaria - Soapbark Tree	75.13	
32 93 43 00-0830	EA	15 Gallon Quillaja saponaria - Soapbark Tree	260.08	
32 93 43 00-0831	EA	24" Box Rhus lancea - African Sumac	130.45	
32 93 43 00-0832	EA	30" Box Rhus lancea - African Sumac	211.26	
32 93 43 00-0833	EA	8' Rhus lancea - African Sumac	316.89	
32 93 43 00-0834	EA	10' Rhus lancea - African Sumac	353.86	
32 93 43 00-0835	EA	12' Rhus lancea - African Sumac	422.52	
32 93 43 00-0836	EA	1 Gallon Tristania conferta - Brisbane Box	7.51	
32 93 43 00-0837	EA	5 Gallon Tristania conferta - Brisbane Box	20.81	
32 93 43 00-0838	EA	15 Gallon Tristania conferta - Brisbane Box	56.64	
32 93 43 00-0839	EA	24" Box Tristania conferta - Brisbane Box	184.94	
32 93 43 00-0840	EA	36" Box Tristania conferta - Brisbane Box	520.16	

32 93 43 00-0841 Palm And Subtropical Trees *(32 93 43)*

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0842	EA	4' To 5' Archontophoenix cunninghamiana - King Palm	92.96	
32 93 43 00-0843	EA	6' To 8' Archontophoenix cunninghamiana - King Palm	144.60	
32 93 43 00-0844	EA	8' To 10' Archontophoenix cunninghamiana - King Palm	185.91	
32 93 43 00-0845	EA	10' To 12' Archontophoenix cunninghamiana - King Palm	247.88	
32 93 43 00-0846	EA	10' To 16' Sabal palmetto - Cabbage Palm	145.20	
32 93 43 00-0847	EA	12' To 16' Cocos nucifera - Coconut Palm	395.99	
32 93 43 00-0848	EA	3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm	197.18	
32 93 43 00-0849	EA	5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm	309.85	
32 93 43 00-0850	EA	3' To 4' Chamaerops humilis - European Fan Palm	169.01	
32 93 43 00-0851	EA	5' To 6' Chamaerops humilis - European Fan Palm	225.35	
32 93 43 00-0852	EA	7' To 8' Chamaerops humilis - European Fan Palm	525.81	
32 93 43 00-0853	EA	9' To 10' Chamaerops humilis - European Fan Palm	901.39	
32 93 43 00-0854	EA	6' To 7' Thrinax morrisii - Key Thatch Palm	394.36	
32 93 43 00-0855	EA	8' To 9' Thrinax morrisii - Key Thatch Palm	507.03	
32 93 43 00-0856	EA	10' To 11' Thrinax morrisii - Key Thatch Palm	619.71	
32 93 43 00-0857	EA	4' To 5' Rhapis excelsa - Lady Palm	356.80	
32 93 43 00-0858	EA	6' To 7' Rhapis excelsa - Lady Palm	507.03	
32 93 43 00-0859	EA	6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	131.45	
32 93 43 00-0860	EA	8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	262.91	
32 93 43 00-0861	EA	10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	338.02	
32 93 43 00-0862	EA	12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	469.48	
32 93 43 00-0863	EA	4' To 5' Arecastrum romanzoffianum - Queen Palm	70.42	
32 93 43 00-0864	EA	6' To 8' Arecastrum romanzoffianum - Queen Palm	98.59	
32 93 43 00-0865	EA	8' To 10' Arecastrum romanzoffianum - Queen Palm	126.76	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0866	EA	10' To 12' Arecastrum romanzoffianum - Queen Palm	154.93	
32 93 43 00-0867	EA	12' To 14' Arecastrum romanzoffianum - Queen Palm	187.79	
32 93 43 00-0868	EA	14' To 16' Arecastrum romanzoffianum - Queen Palm	234.74	
32 93 43 00-0869	EA	8' To 9' Roystonea regia - Royal Palm	287.32	
32 93 43 00-0870	EA	10' To 11' Roystonea regia - Royal Palm	351.17	
32 93 43 00-0871	EA	12' To 13' Roystonea regia - Royal Palm	415.02	
32 93 43 00-0872	EA	14' To 15' Roystonea regia - Royal Palm	478.86	
32 93 43 00-0873	EA	16' To 17' Roystonea regia - Royal Palm	542.71	
32 93 43 00-0874	EA	18' To 19' Roystonea regia - Royal Palm	606.56	
32 93 43 00-0875	EA	20' To 21' Roystonea regia - Royal Palm	670.41	
32 93 43 00-0876	EA	9' Ptychosperma elegans - Alexander Palm, Solitaire Palm	140.84	
32 93 43 00-0877	EA	11' Ptychosperma elegans - Alexander Palm, Solitaire Palm	234.74	
32 93 43 00-0878	EA	15' Ptychosperma elegans - Alexander Palm, Solitaire Palm	356.80	
32 93 43 00-0879	EA	17' Ptychosperma elegans - Alexander Palm, Solitaire Palm	403.75	
32 93 43 00-0880	EA	20' Ptychosperma elegans - Alexander Palm, Solitaire Palm	469.48	
32 93 43 00-0881	EA	4' To 5' Bauninia blakeana - Hong Kong Orchid	403.75	
32 93 43 00-0882	EA	6' Bauninia blakeana - Hong Kong Orchid	478.86	
32 93 43 00-0883	EA	8' Bauninia blakeana - Hong Kong Orchid	638.49	
32 93 43 00-0884	EA	10' Bauninia blakeana - Hong Kong Orchid	798.11	
32 93 43 00-0885	EA	4' To 5' Acacia baileyana - Bailey Acacia	219.68	
32 93 43 00-0886	EA	6' Acacia baileyana - Bailey Acacia	263.62	
32 93 43 00-0887	EA	8' Acacia baileyana - Bailey Acacia	307.55	
32 93 43 00-0888	EA	10' Acacia baileyana - Bailey Acacia	384.44	
32 93 43 00-0889	EA	6' Agonis flexuosa - Peppermint Tree	131.81	
32 93 43 00-0890	EA	8' Agonis flexuosa - Peppermint Tree	164.76	
32 93 43 00-0891	EA	10' Agonis flexuosa - Peppermint Tree	197.71	
32 93 43 00-0892	EA	24" Box Agonis flexuosa - Peppermint Tree	164.21	
32 93 43 00-0893	EA	6' Bauhinia purpurea - Purple Orchid Tree	507.03	
32 93 43 00-0894	EA	8' Bauhinia purpurea - Purple Orchid Tree	676.04	
32 93 43 00-0895	EA	10' Bauhinia purpurea - Purple Orchid Tree	845.06	
32 93 43 00-0896	EA	24" Box Bauhinia purpurea - Purple Orchid Tree	219.71	
32 93 43 00-0897	EA	6' Bauhinia variegata candida - White Orchid Tree	563.37	
32 93 43 00-0898	EA	8' Bauhinia variegata candida - White Orchid Tree	751.16	
32 93 43 00-0899	EA	10' Bauhinia variegata candida - White Orchid Tree	938.95	
32 93 43 00-0900	EA	6' Callistemon citrinus - Crimson or Lemon Bottle Brush	296.57	
32 93 43 00-0901	EA	8' Callistemon citrinus - Crimson or Lemon Bottle Brush	395.42	
32 93 43 00-0902	EA	10' Callistemon citrinus - Crimson or Lemon Bottle Brush	494.28	
32 93 43 00-0903	EA	6' Eriobotrya deflexa - Bronze Loquat	507.03	
32 93 43 00-0904	EA	8' Eriobotrya deflexa - Bronze Loquat	676.04	
32 93 43 00-0905	EA	10' Eriobotrya deflexa - Bronze Loquat	845.06	
32 93 43 00-0906	EA	6' Eucalyptus erythrocorys - Red Cap Gum	507.03	
32 93 43 00-0907	EA	8' Eucalyptus erythrocorys - Red Cap Gum	676.04	
32 93 43 00-0908	EA	10' Eucalyptus erythrocorys - Red Cap Gum	845.06	
32 93 43 00-0909	EA	6' Eucalyptus torquala - Coral Gum	507.03	
32 93 43 00-0910	EA	8' Eucalyptus torquala - Coral Gum	676.04	
32 93 43 00-0911	EA	10' Eucalyptus torquala - Coral Gum	845.06	
32 93 43 00-0912	EA	8' Fraxinus oxycarpa "Raywood" - Raywood Ash	307.55	
32 93 43 00-0913	EA	10' Fraxinus oxycarpa "Raywood" - Raywood Ash	417.39	
32 93 43 00-0914	EA	12' Fraxinus oxycarpa "Raywood" - Raywood Ash	516.25	
32 93 43 00-0915	EA	1 Gallon Washingtonia robusta - Mexican Fan Palm	5.75	
32 93 43 00-0916	EA	5 Gallon Washingtonia robusta - Mexican Fan Palm	17.90	
32 93 43 00-0917	EA	15 Gallon Washingtonia robusta - Mexican Fan Palm	62.64	
32 93 43 00-0918	EA	24" Box Washingtonia robusta - Mexican Fan Palm	204.53	
32 93 43 00-0919	EA	36" Box Washingtonia robusta - Mexican Fan Palm	543.28	
32 93 43 00-0920	EA	6' Washingtonia robusta - Mexican Fan Palm	507.03	
32 93 43 00-0921	EA	8' Washingtonia robusta - Mexican Fan Palm	676.04	
32 93 43 00-0922	EA	10' Washingtonia robusta - Mexican Fan Palm	845.06	
32 93 43 00-0923	EA	12' Washingtonia robusta - Mexican Fan Palm	1,014.07	
32 93 43 00-0924	EA	6' Olea europaea - Olive "Fruitless"	285.20	
32 93 43 00-0925	EA	8' Olea europaea - Olive "Fruitless"	380.27	
32 93 43 00-0926	EA	10' Olea europaea - Olive "Fruitless"	475.34	
32 93 43 00-0927	EA	12' Olea europaea - Olive "Fruitless"	570.40	
32 93 43 00-0928	EA	24" Box Olea europaea - Olive "Fruitless"	350.69	
32 93 43 00-0929	EA	6' Eucalyptus polyanthemos - Silver Dollar Gum	507.03	
32 93 43 00-0930	EA	8' Eucalyptus polyanthemos - Silver Dollar Gum	676.04	
32 93 43 00-0931	EA	10' Eucalyptus polyanthemos - Silver Dollar Gum	845.06	
32 93 43 00-0932	EA	6' Eucalyptus leucoxylon - White Ironbark	507.03	
32 93 43 00-0933	EA	8' Eucalyptus leucoxylon - White Ironbark	676.04	
32 93 43 00-0934	EA	10' Eucalyptus leucoxylon - White Ironbark	845.06	
32 93 43 00-0935	EA	12' Eucalyptus leucoxylon - White Ironbark	1,014.07	
32 93 43 00-0936	EA	6' Callistemon viminalis - Weeping Bottle Brush	296.57	
32 93 43 00-0937	EA	8' Callistemon viminalis - Weeping Bottle Brush	395.42	
32 93 43 00-0938	EA	10' Callistemon viminalis - Weeping Bottle Brush	494.28	
32 93 43 00-0939	EA	12' Callistemon viminalis - Weeping Bottle Brush	593.14	
32 93 43 00-0940	EA	6' Eucalyptus gunnii - Cider Gum	507.03	
32 93 43 00-0941	EA	8' Eucalyptus gunnii - Cider Gum	676.04	
32 93 43 00-0942	EA	10' Eucalyptus gunnii - Cider Gum	845.06	
32 93 43 00-0943	EA	6' Jacarandra acutifolia - Jacaranda	507.03	
32 93 43 00-0944	EA	8' Jacarandra acutifolia - Jacaranda	676.04	
32 93 43 00-0945	EA	10' Jacarandra acutifolia - Jacaranda	845.06	
32 93 43 00-0946	EA	24" Box Jacarandra acutifolia - Jacaranda	219.71	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0947	EA	5 Gallon Phoenix roebelenii - Pygmy Date Palm	21.89	
32 93 43 00-0948	EA	7 Gallon Phoenix roebelenii - Pygmy Date Palm	53.36	
32 93 43 00-0949	EA	15 Gallon Phoenix roebelenii - Pygmy Date Palm	80.73	
32 93 43 00-0950	EA	24" Box Phoenix roebelenii - Pygmy Date Palm	239.45	
32 93 43 00-0951	EA	5 Gallon Pistacia chinensis - Chinese Pistache	33.80	
32 93 43 00-0952	EA	15 Gallon Pistacia chinensis - Chinese Pistache	112.67	
32 93 43 00-0953	EA	24" Box Pistacia chinensis - Chinese Pistache	437.55	
32 93 43 00-0954	EA	36" Box Pistacia chinensis - Chinese Pistache	1,164.30	
32 93 43 00-0955	EA	48" Box Pistacia chinensis - Chinese Pistache	2,478.83	
32 93 43 00-0956	EA	5 Gallon Pyrus kawakamii - Evergreen Pear, Single	20.43	
32 93 43 00-0957	EA	15 Gallon Pyrus kawakamii - Evergreen Pear, Single	68.10	
32 93 43 00-0958	EA	24" Box Pyrus kawakamii - Evergreen Pear, Single	255.93	
32 93 43 00-0959	EA	30" Box Pyrus kawakamii - Evergreen Pear, Single	467.92	
32 93 43 00-0960	EA	36" Box Pyrus kawakamii - Evergreen Pear, Single	681.01	
32 93 43 00-0961	EA	5 Gallon Pyrus kawakamii - Evergreen Pear, Multi	20.43	
32 93 43 00-0962	EA	15 Gallon Pyrus kawakamii - Evergreen Pear, Multi	72.49	
32 93 43 00-0963	EA	24" Box Pyrus kawakamii - Evergreen Pear, Multi	263.62	
32 93 43 00-0964	EA	30" Box Pyrus kawakamii - Evergreen Pear, Multi	467.92	
32 93 43 00-0965	EA	36" Box Pyrus kawakamii - Evergreen Pear, Multi	681.01	

32 93 83 Planting of Trees, Shrubs and Ground Cover *(32 93)*

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees *(32 93 83)*

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA	3" To 5" Bare Root Seedlings Tree Planting	1.28	
32 93 83 00-0003	EA	6" To 10" Bare Root Seedlings Tree Planting	2.05	
32 93 83 00-0004	EA	11" To 16" Bare Root Seedlings Tree Planting	2.56	
32 93 83 00-0005	EA	17" To 24" Bare Root Seedlings Tree Planting	4.11	
32 93 83 00-0006	EA	1 Gallon Container Tree Planting	20.51	
		For >10 To 25, Deduct	*-1.03*	
		For >25 To 50, Deduct	*-2.56*	
		For >50 To 100, Deduct	*-4.10*	
		For >100, Deduct	*-6.15*	
32 93 83 00-0007	EA	2 Gallon Container Tree Planting	28.71	
		For >10 To 25, Deduct	*-1.44*	
		For >25 To 50, Deduct	*-3.59*	
		For >50 To 100, Deduct	*-5.74*	
		For >100, Deduct	*-8.61*	
32 93 83 00-0008	EA	3 Gallon Container Tree Planting	36.91	
		For >10 To 25, Deduct	*-1.85*	
		For >25 To 50, Deduct	*-4.61*	
		For >50 To 100, Deduct	*-7.38*	
		For >100, Deduct	*-11.07*	
32 93 83 00-0009	EA	5 Gallon Container Tree Planting	61.53	
		For >10 To 25, Deduct	*-3.08*	
		For >25 To 50, Deduct	*-7.69*	
		For >50 To 100, Deduct	*-12.31*	
		For >100, Deduct	*-18.46*	
32 93 83 00-0010	EA	7 Gallon Container Tree Planting	82.03	
		For >10 To 25, Deduct	*-4.10*	
		For >25 To 50, Deduct	*-10.25*	
		For >50 To 100, Deduct	*-16.41*	
		For >100, Deduct	*-24.61*	
32 93 83 00-0011	EA	10 Gallon Container Tree Planting	106.64	
		For >10 To 25, Deduct	*-5.33*	
		For >25 To 50, Deduct	*-13.33*	
		For >50 To 100, Deduct	*-21.33*	
		For >100, Deduct	*-31.99*	
32 93 83 00-0012	EA	15 Gallon Container Tree Planting	151.76	
		For >10 To 25, Deduct	*-7.59*	
		For >25 To 50, Deduct	*-18.97*	
		For >50 To 100, Deduct	*-30.35*	
		For >100, Deduct	*-45.53*	
32 93 83 00-0013	EA	20 Gallon Container Tree Planting	250.20	
		For >10 To 25, Deduct	*-12.51*	
		For >25 To 50, Deduct	*-31.28*	
		For >50 To 100, Deduct	*-50.04*	
		For >100, Deduct	*-75.06*	
32 93 83 00-0014	EA	25 Gallon Container Tree Planting	324.03	
		For >10 To 25, Deduct	*-16.20*	
		For >25 To 50, Deduct	*-40.50*	
		For >50 To 100, Deduct	*-64.81*	
		For >100, Deduct	*-97.21*	
32 93 83 00-0015	EA	30 Gallon Container Tree Planting	389.65	
		For >10 To 25, Deduct	*-19.48*	
		For >25 To 50, Deduct	*-48.71*	
		For >50 To 100, Deduct	*-77.93*	
		For >100, Deduct	*-116.90*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0016	EA	45 Gallon Container Tree Planting	484.00	
		For >10 To 25, Deduct	*-24.20*	
		For >25 To 50, Deduct	*-60.50*	
		For >50 To 100, Deduct	*-96.80*	
		For >100, Deduct	*-145.20*	
32 93 83 00-0017	EA	65 Gallon Container Tree Planting	574.23	
		For >10 To 25, Deduct	*-28.71*	
		For >25 To 50, Deduct	*-71.78*	
		For >50 To 100, Deduct	*-114.85*	
		For >100, Deduct	*-172.27*	
32 93 83 00-0018	EA	6' Balled And Burlapped Tree Planting	205.09	
		For >10 To 25, Deduct	*-10.25*	
		For >25 To 50, Deduct	*-25.64*	
		For >50 To 100, Deduct	*-41.02*	
		For >100, Deduct	*-61.53*	
32 93 83 00-0019	EA	7' Balled And Burlapped Tree Planting	273.17	
		For >10 To 25, Deduct	*-13.66*	
		For >25 To 50, Deduct	*-34.15*	
		For >50 To 100, Deduct	*-54.63*	
		For >100, Deduct	*-81.95*	
32 93 83 00-0020	EA	8' Balled And Burlapped Tree Planting	307.62	
		For >10 To 25, Deduct	*-15.38*	
		For >25 To 50, Deduct	*-38.45*	
		For >50 To 100, Deduct	*-61.52*	
		For >100, Deduct	*-92.29*	
32 93 83 00-0021	EA	10' Balled And Burlapped Tree Planting	358.90	
		For >10 To 25, Deduct	*-17.95*	
		For >25 To 50, Deduct	*-44.86*	
		For >50 To 100, Deduct	*-71.78*	
		For >100, Deduct	*-107.67*	
32 93 83 00-0022	EA	12' Balled And Burlapped Tree Planting	479.89	
		For >10 To 25, Deduct	*-23.99*	
		For >25 To 50, Deduct	*-59.99*	
		For >50 To 100, Deduct	*-95.98*	
		For >100, Deduct	*-143.97*	
32 93 83 00-0023	EA	14' Balled And Burlapped Tree Planting	549.63	
		For >10 To 25, Deduct	*-27.48*	
		For >25 To 50, Deduct	*-68.70*	
		For >50 To 100, Deduct	*-109.93*	
		For >100, Deduct	*-164.89*	
32 93 83 00-0024	EA	16' Balled And Burlapped Tree Planting	666.52	
		For >10 To 25, Deduct	*-33.33*	
		For >25 To 50, Deduct	*-83.32*	
		For >50 To 100, Deduct	*-133.30*	
		For >100, Deduct	*-199.96*	
32 93 83 00-0025	EA	18' Balled And Burlapped Tree Planting	799.83	
		For >10 To 25, Deduct	*-39.99*	
		For >25 To 50, Deduct	*-99.98*	
		For >50 To 100, Deduct	*-159.97*	
		For >100, Deduct	*-239.95*	
32 93 83 00-0026	EA	20' Balled And Burlapped Tree Planting	922.88	
		For >10 To 25, Deduct	*-46.14*	
		For >25 To 50, Deduct	*-115.36*	
		For >50 To 100, Deduct	*-184.58*	
		For >100, Deduct	*-276.86*	
32 93 83 00-0027	EA	1-1/2" Caliper Balled And Burlapped Tree Planting	307.62	
		For >10 To 25, Deduct	*-15.38*	
		For >25 To 50, Deduct	*-38.45*	
		For >50 To 100, Deduct	*-61.52*	
		For >100, Deduct	*-92.29*	
32 93 83 00-0028	EA	2" Caliper Balled And Burlapped Tree Planting	358.90	
		For >10 To 25, Deduct	*-17.95*	
		For >25 To 50, Deduct	*-44.86*	
		For >50 To 100, Deduct	*-71.78*	
		For >100, Deduct	*-107.67*	
32 93 83 00-0029	EA	2-1/2" Caliper Balled And Burlapped Tree Planting	481.95	
		For >10 To 25, Deduct	*-24.10*	
		For >25 To 50, Deduct	*-60.24*	
		For >50 To 100, Deduct	*-96.39*	
		For >100, Deduct	*-144.59*	
32 93 83 00-0030	EA	3" Caliper Balled And Burlapped Tree Planting	553.72	
		For >10 To 25, Deduct	*-27.69*	
		For >25 To 50, Deduct	*-69.22*	
		For >50 To 100, Deduct	*-110.74*	
		For >100, Deduct	*-166.12*	
32 93 83 00-0031	EA	3-1/2" Caliper Balled And Burlapped Tree Planting	615.25	
		For >10 To 25, Deduct	*-30.76*	
		For >25 To 50, Deduct	*-76.91*	
		For >50 To 100, Deduct	*-123.05*	
		For >100, Deduct	*-184.58*	
32 93 83 00-0032	EA	4" Caliper Balled And Burlapped Tree Planting	705.48	
		For >10 To 25, Deduct	*-35.27*	
		For >25 To 50, Deduct	*-88.19*	
		For >50 To 100, Deduct	*-141.10*	
		For >100, Deduct	*-211.64*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0033		**Planting Shrubs** *(32 93 83)*		
		Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034	EA	1 Gallon Container Shrub Planting	17.44	
		For >10 To 25, Deduct	*-0.87*	
		For >25 To 50, Deduct	*-2.18*	
		For >50 To 100, Deduct	*-3.49*	
		For >100, Deduct	*-5.23*	
32 93 83 00-0035	EA	2 Gallon Container Shrub Planting	24.61	
		For >10 To 25, Deduct	*-1.23*	
		For >25 To 50, Deduct	*-3.08*	
		For >50 To 100, Deduct	*-4.92*	
		For >100, Deduct	*-7.38*	
32 93 83 00-0036	EA	3 Gallon Container Shrub Planting	30.76	
		For >10 To 25, Deduct	*-1.54*	
		For >25 To 50, Deduct	*-3.85*	
		For >50 To 100, Deduct	*-6.15*	
		For >100, Deduct	*-9.23*	
32 93 83 00-0037	EA	4 Gallon Container Shrub Planting	41.02	
		For >10 To 25, Deduct	*-2.05*	
		For >25 To 50, Deduct	*-5.13*	
		For >50 To 100, Deduct	*-8.20*	
		For >100, Deduct	*-12.31*	
32 93 83 00-0038	EA	5 Gallon Container Shrub Planting	51.27	
		For >10 To 25, Deduct	*-2.56*	
		For >25 To 50, Deduct	*-6.41*	
		For >50 To 100, Deduct	*-10.25*	
		For >100, Deduct	*-15.38*	
32 93 83 00-0039	EA	7 Gallon Container Shrub Planting	69.73	
		For >10 To 25, Deduct	*-3.49*	
		For >25 To 50, Deduct	*-8.72*	
		For >50 To 100, Deduct	*-13.95*	
		For >100, Deduct	*-20.92*	
32 93 83 00-0040	EA	10 Gallon Container Shrub Planting	92.28	
		For >10 To 25, Deduct	*-4.61*	
		For >25 To 50, Deduct	*-11.54*	
		For >50 To 100, Deduct	*-18.46*	
		For >100, Deduct	*-27.68*	
32 93 83 00-0041	EA	15 Gallon Container Shrub Planting	127.15	
		For >10 To 25, Deduct	*-6.36*	
		For >25 To 50, Deduct	*-15.89*	
		For >50 To 100, Deduct	*-25.43*	
		For >100, Deduct	*-38.15*	
32 93 83 00-0042	EA	20 Gallon Container Shrub Planting	213.29	
		For >10 To 25, Deduct	*-10.66*	
		For >25 To 50, Deduct	*-26.66*	
		For >50 To 100, Deduct	*-42.66*	
		For >100, Deduct	*-63.99*	
32 93 83 00-0043	EA	25 Gallon Container Shrub Planting	273.17	
		For >10 To 25, Deduct	*-13.66*	
		For >25 To 50, Deduct	*-34.15*	
		For >50 To 100, Deduct	*-54.63*	
		For >100, Deduct	*-81.95*	
32 93 83 00-0044	EA	15" Balled And Burlapped Shrub Planting	57.42	
		For >10 To 25, Deduct	*-2.87*	
		For >25 To 50, Deduct	*-7.18*	
		For >50 To 100, Deduct	*-11.48*	
		For >100, Deduct	*-17.23*	
32 93 83 00-0045	EA	18" Balled And Burlapped Shrub Planting	59.48	
		For >10 To 25, Deduct	*-2.97*	
		For >25 To 50, Deduct	*-7.44*	
		For >50 To 100, Deduct	*-11.90*	
		For >100, Deduct	*-17.84*	
32 93 83 00-0046	EA	24" Balled And Burlapped Shrub Planting	65.62	
		For >10 To 25, Deduct	*-3.28*	
		For >25 To 50, Deduct	*-8.20*	
		For >50 To 100, Deduct	*-13.12*	
		For >100, Deduct	*-19.69*	
32 93 83 00-0047	EA	30" Balled And Burlapped Shrub Planting	65.62	
		For >10 To 25, Deduct	*-3.28*	
		For >25 To 50, Deduct	*-8.20*	
		For >50 To 100, Deduct	*-13.12*	
		For >100, Deduct	*-19.69*	
32 93 83 00-0048	EA	36" Balled And Burlapped Shrub Planting	71.78	
		For >10 To 25, Deduct	*-3.59*	
		For >25 To 50, Deduct	*-8.97*	
		For >50 To 100, Deduct	*-14.36*	
		For >100, Deduct	*-21.53*	
32 93 83 00-0049	EA	42" Balled And Burlapped Shrub Planting	75.88	
		For >10 To 25, Deduct	*-3.79*	
		For >25 To 50, Deduct	*-9.49*	
		For >50 To 100, Deduct	*-15.18*	
		For >100, Deduct	*-22.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0050	EA	48" Balled And Burlapped Shrub Planting	82.03	
		For >10 To 25, Deduct	*-4.10*	
		For >25 To 50, Deduct	*-10.25*	
		For >50 To 100, Deduct	*-16.41*	
		For >100, Deduct	*-24.61*	
32 93 83 00-0051	EA	5' Balled And Burlapped Shrub Planting	123.05	
		For >10 To 25, Deduct	*-6.15*	
		For >25 To 50, Deduct	*-15.38*	
		For >50 To 100, Deduct	*-24.61*	
		For >100, Deduct	*-36.92*	
32 93 83 00-0052	EA	6' Balled And Burlapped Shrub Planting	174.32	
		For >10 To 25, Deduct	*-8.72*	
		For >25 To 50, Deduct	*-21.79*	
		For >50 To 100, Deduct	*-34.86*	
		For >100, Deduct	*-52.30*	
32 93 83 00-0053	EA	7' Balled And Burlapped Shrub Planting	231.75	
		For >10 To 25, Deduct	*-11.59*	
		For >25 To 50, Deduct	*-28.97*	
		For >50 To 100, Deduct	*-46.35*	
		For >100, Deduct	*-69.53*	
32 93 83 00-0054	EA	8' Balled And Burlapped Shrub Planting	262.51	
		For >10 To 25, Deduct	*-13.13*	
		For >25 To 50, Deduct	*-32.81*	
		For >50 To 100, Deduct	*-52.50*	
		For >100, Deduct	*-78.75*	
32 93 83 00-0055	EA	9' Balled And Burlapped Shrub Planting	283.02	
		For >10 To 25, Deduct	*-14.15*	
		For >25 To 50, Deduct	*-35.38*	
		For >50 To 100, Deduct	*-56.60*	
		For >100, Deduct	*-84.91*	
32 93 83 00-0056	EA	10' Balled And Burlapped Shrub Planting	307.62	
		For >10 To 25, Deduct	*-15.38*	
		For >25 To 50, Deduct	*-38.45*	
		For >50 To 100, Deduct	*-61.52*	
		For >100, Deduct	*-92.29*	

32 93 83 00-0057 Planting Groundcover, Vines, Perennials, Annuals And Bulbs *(32 93 83)*

See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0058	EA	2-1/4" Diameter Potted Groundcover And Flower Planting	1.71	
		For >10 To 25, Deduct	*-0.09*	
		For >25 To 50, Deduct	*-0.21*	
		For >50 To 100, Deduct	*-0.34*	
		For >100, Deduct	*-0.51*	
32 93 83 00-0059	EA	3" Diameter Potted Groundcover And Flower Planting	1.96	
		For >10 To 25, Deduct	*-0.10*	
		For >25 To 50, Deduct	*-0.25*	
		For >50 To 100, Deduct	*-0.39*	
		For >100, Deduct	*-0.59*	
32 93 83 00-0060	EA	4" Diameter Potted Groundcover And Flower Planting	2.28	
		For >10 To 25, Deduct	*-0.11*	
		For >25 To 50, Deduct	*-0.29*	
		For >50 To 100, Deduct	*-0.46*	
		For >100, Deduct	*-0.68*	
32 93 83 00-0061	EA	5-1/2" Diameter Potted Groundcover And Flower Planting	2.73	
		For >10 To 25, Deduct	*-0.14*	
		For >25 To 50, Deduct	*-0.34*	
		For >50 To 100, Deduct	*-0.55*	
		For >100, Deduct	*-0.82*	
32 93 83 00-0062	EA	6" Diameter Potted Groundcover And Flower Planting	3.41	
		For >10 To 25, Deduct	*-0.17*	
		For >25 To 50, Deduct	*-0.43*	
		For >50 To 100, Deduct	*-0.68*	
		For >100, Deduct	*-1.02*	
32 93 83 00-0063	EA	8" Diameter Potted Groundcover And Flower Planting	5.13	
		For >10 To 25, Deduct	*-0.26*	
		For >25 To 50, Deduct	*-0.64*	
		For >50 To 100, Deduct	*-1.03*	
		For >100, Deduct	*-1.54*	
32 93 83 00-0064	EA	1 Gallon Container Groundcover And Flower Planting	16.40	
		For >10 To 25, Deduct	*-0.82*	
		For >25 To 50, Deduct	*-2.05*	
		For >50 To 100, Deduct	*-3.28*	
		For >100, Deduct	*-4.92*	
32 93 83 00-0065	EA	2 Gallon Container Groundcover And Flower Planting	22.56	
		For >10 To 25, Deduct	*-1.13*	
		For >25 To 50, Deduct	*-2.82*	
		For >50 To 100, Deduct	*-4.51*	
		For >100, Deduct	*-6.77*	
32 93 83 00-0066	EA	3 Gallon Container Groundcover And Flower Planting	28.71	
		For >10 To 25, Deduct	*-1.44*	
		For >25 To 50, Deduct	*-3.59*	
		For >50 To 100, Deduct	*-5.74*	
		For >100, Deduct	*-8.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0067	EA	4 Gallon Container Groundcover And Flower Planting	36.91	
		For >10 To 25, Deduct	*-1.85*	
		For >25 To 50, Deduct	*-4.61*	
		For >50 To 100, Deduct	*-7.38*	
		For >100, Deduct	*-11.07*	
32 93 83 00-0068	EA	5 Gallon Container Groundcover And Flower Planting	45.12	
		For >10 To 25, Deduct	*-2.26*	
		For >25 To 50, Deduct	*-5.64*	
		For >50 To 100, Deduct	*-9.02*	
		For >100, Deduct	*-13.54*	
32 93 83 00-0069	EA	7 Gallon Container Groundcover And Flower Planting	61.53	
		For >10 To 25, Deduct	*-3.08*	
		For >25 To 50, Deduct	*-7.69*	
		For >50 To 100, Deduct	*-12.31*	
		For >100, Deduct	*-18.46*	
32 93 83 00-0070	EA	Bulb Planting	1.02	
		For >10 To 25, Deduct	*-0.05*	
		For >25 To 50, Deduct	*-0.13*	
		For >50 To 100, Deduct	*-0.20*	
		For >100, Deduct	*-0.31*	
32 93 83 00-0071	EA	Flats Of 24 Groundcover And Flower Planting	28.71	
		For >10 To 25, Deduct	*-1.44*	
		For >25, Deduct	*-3.59*	
32 93 83 00-0072	EA	Flats Of 36 Groundcover And Flower Planting	40.73	
		For >10 To 25, Deduct	*-2.04*	
		For >25, Deduct	*-5.09*	
32 93 83 00-0073	EA	Flats Of 48 Groundcover And Flower Planting	54.22	
		For >10 To 25, Deduct	*-2.71*	
		For >25, Deduct	*-6.78*	

32 93 83 00-0074 Tree Pits *(32 93 83)*

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch.

32 93 83 00-0075	EA	2' x 1-1/4' Deep Tree Pit	109.72	
32 93 83 00-0076	EA	2' x 2-1/2' Deep Tree Pit	164.53	
32 93 83 00-0077	EA	2-1/2' x 1-1/2' Deep Tree Pit	212.61	
32 93 83 00-0078	EA	2-1/2' x 3' Deep Tree Pit	318.85	
32 93 83 00-0079	EA	3' x 1-3/4' Deep Tree Pit	328.01	
32 93 83 00-0080	EA	3' x 3-1/2' Deep Tree Pit	489.43	
32 93 83 00-0081	EA	3-1/2' x 1-3/4' Deep Tree Pit	401.84	
32 93 83 00-0082	EA	3-1/2' x 3-1/2' Deep Tree Pit	601.92	
32 93 83 00-0083	EA	4' x 2' Deep Tree Pit	480.29	
32 93 83 00-0084	EA	4' x 4' Deep Tree Pit	720.03	
32 93 83 00-0085	EA	4-1/2' x 2' Deep Tree Pit	691.23	
32 93 83 00-0086	EA	4-1/2' x 4' Deep Tree Pit	1,038.92	
32 93 83 00-0087	EA	5' x 2-1/4' Deep Tree Pit	919.43	
32 93 83 00-0088	EA	5' x 4-1/2' Deep Tree Pit	1,369.40	
32 93 83 00-0089	EA	6' x 2-1/2' Deep Tree Pit	1,303.94	
32 93 83 00-0090	EA	6' x 5' Deep Tree Pit	1,952.97	
32 93 83 00-0091	EA	7' x 3' Deep Tree Pit	2,196.55	
32 93 83 00-0092	EA	7' x 6' Deep Tree Pit	3,312.59	
32 93 83 00-0093	EA	8' x 3-1/4' Deep Tree Pit	3,019.73	
32 93 83 00-0094	EA	8' x 6-1/2' Deep Tree Pit	4,527.65	

32 94 Planting Accessories *(32 90)*

32 94 13 Landscape Edging *(32 94)*

Note: Including stakes.

32 94 13 00-0001 Landscape Edging *(32 94 13)*

Note: Includes stakes.

32 94 13 00-0002	LF	6" Poly/Vinyl Landscape Edging With Non-Round Top	4.40	1.05
		For >2,000 To 5,000 LF, Deduct	*-0.23*	
		For >5,000 LF, Deduct	*-0.46*	
32 94 13 00-0003	LF	5" Polyethylene Landscape Edging With Round Top	2.82	1.05
		For >2,000 To 5,000 LF, Deduct	*-0.07*	
		For >5,000 LF, Deduct	*-0.14*	
32 94 13 00-0004	LF	5-1/2" Polyethylene Landscape Edging With Round Top	2.86	1.05
		For >2,000 To 5,000 LF, Deduct	*-0.08*	
		For >5,000 LF, Deduct	*-0.15*	
32 94 13 00-0005	LF	5" Polyethylene Landscape Edging With Corrugated Sides And Round Top	2.88	1.05
		For >2,000 To 5,000 LF, Deduct	*-0.08*	
		For >5,000 LF, Deduct	*-0.16*	
32 94 13 00-0006	LF	1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	7.91	2.49
		For >1,000 LF, Deduct	*-0.74*	
32 94 13 00-0007	LF	1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	8.51	2.49
		For >1,000 LF, Deduct	*-0.89*	
32 94 13 00-0008	LF	1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging	8.56	2.49
		For >1,000 LF, Deduct	*-0.90*	
32 94 13 00-0009	LF	3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	9.66	2.57
		For >1,000 LF, Deduct	*-1.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 13 00-0010	LF	3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	10.40	2.57
		For >1,000 LF, Deduct	*-1.32*	
32 94 13 00-0011	LF	3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging	10.39	2.57
		For >1,000 LF, Deduct	*-1.32*	
32 94 13 00-0012	LF	1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	8.78	2.65
		For >1,000 LF, Deduct	*-0.89*	
32 94 13 00-0013	LF	1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	9.62	2.65
		For >1,000 LF, Deduct	*-1.10*	
32 94 13 00-0014	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	9.70	2.65
		For >1,000 LF, Deduct	*-1.12*	
32 94 13 00-0015	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	10.78	2.73
		For >1,000 LF, Deduct	*-1.35*	
32 94 13 00-0016	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	11.62	2.73
		For >1,000 LF, Deduct	*-1.56*	
32 94 13 00-0017	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	11.69	2.73
		For >1,000 LF, Deduct	*-1.58*	
32 94 13 00-0018	LF	1/8" x 4" Powder Coated Steel Landscape Edging	8.37	2.57
		For >1,000 LF, Deduct	*-0.81*	
32 94 13 00-0019	LF	3/16" x 4" Powder Coated Steel Landscape Edging	9.60	2.57
		For >1,000 LF, Deduct	*-1.11*	
32 94 13 00-0020	LF	1/4" x 5" Powder Coated Steel Landscape Edging	12.89	2.57
		For >1,000 LF, Deduct	*-1.94*	
32 94 13 00-0021	LF	1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)	6.58	2.49
		For >1,000 LF, Deduct	*-0.40*	
32 94 13 00-0022	LF	1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)	7.31	2.49
		For >1,000 LF, Deduct	*-0.59*	
32 94 13 00-0023	LF	1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board)	7.95	2.49
		For >1,000 LF, Deduct	*-0.75*	
32 94 13 00-0024	LF	2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)	8.09	2.49
		For >1,000 LF, Deduct	*-0.78*	

32 94 16 Landscape Timbers *(32 94)*

32 94 16 00-0001	LF	1" x 4" Redwood Edging	4.61	1.50
32 94 16 00-0002	LF	2" x 4" Redwood Edging	6.29	2.25
32 94 16 00-0003	LF	3" x 4" Pressure Treated Landscape Timber	4.83	2.25
		Note: 2 rounded edges and 2 straight edges.		
32 94 16 00-0004	LF	3" x 5" Pressure Treated Landscape Timber	6.29	2.90
		Note: 2 rounded edges and 2 straight edges.		
32 94 16 00-0005	LF	4" x 6" Pressure Treated Hardwood	9.87	3.00
32 94 16 00-0006	LF	6" x 6" Pressure Treated Hardwood	13.01	3.74
32 94 16 00-0007	LF	6" x 8" Pressure Treated Hardwood	15.13	4.40
32 94 16 00-0008	LF	1" x 4" Pressure Treated Pine	3.65	1.50
32 94 16 00-0009	LF	2" x 4" Pressure Treated Pine	5.56	2.25
32 94 16 00-0010	LF	4" x 6" Pressure Treated Pine	9.35	2.90
32 94 16 00-0011	LF	6" x 6" Pressure Treated Pine	12.89	3.74
32 94 16 00-0012	LF	6" x 8" Pressure Treated Pine	15.89	4.40
32 94 16 00-0013	LF	6" x 8" Railroad Ties	13.00	4.10
32 94 16 00-0014	LF	7" x 9" Railroad Ties	15.61	5.15

32 94 43 Tree Grates *(32 94)*

32 94 43 00-0001 Tree Grates With Frames *(32 94 43)*

32 94 43 00-0002 Round Cast Iron Tree Grates With Frames *(32 94 43 00-0001)*

32 94 43 00-0003	EA	32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame	698.56	53.44
		For >3 To 9, Deduct	*-44.38*	
		For >9, Deduct	*-91.71*	
32 94 43 00-0004	EA	36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame	806.12	53.44
		For >3 To 9, Deduct	*-52.44*	
		For >9, Deduct	*-108.38*	
32 94 43 00-0005	EA	42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame	976.22	71.26
		For >3 To 9, Deduct	*-62.53*	
		For >9, Deduct	*-129.23*	
32 94 43 00-0006	EA	48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame	1,210.36	71.26
		For >3 To 9, Deduct	*-80.09*	
		For >9, Deduct	*-165.52*	
32 94 43 00-0007	EA	54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame	1,551.32	89.07
		For >3 To 9, Deduct	*-102.99*	
		For >9, Deduct	*-212.84*	
32 94 43 00-0008	EA	60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame	1,631.23	106.88
		For >3 To 9, Deduct	*-106.31*	
		For >9, Deduct	*-219.71*	
32 94 43 00-0009	EA	60" Diameter, >350 LB Cast Iron Tree Grate With Frame	1,794.18	106.88
		For >3 To 9, Deduct	*-118.53*	
		For >9, Deduct	*-244.97*	
32 94 43 00-0010	EA	72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame	2,391.07	151.42
		For >3 To 9, Deduct	*-156.62*	
		For >9, Deduct	*-323.68*	
32 94 43 00-0011	EA	72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame	2,485.99	151.42
		For >3 To 9, Deduct	*-163.74*	
		For >9, Deduct	*-338.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0012	EA	72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame	2,565.09	151.42
		For >3 To 9, Deduct	*-169.67*	
		For >9, Deduct	*-350.65*	
32 94 43 00-0013	EA	72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame	2,628.37	151.42
		For >3 To 9, Deduct	*-174.42*	
		For >9, Deduct	*-360.46*	
32 94 43 00-0014	EA	72" Diameter, >700 LB Cast Iron Tree Grate With Frame	2,675.83	151.42
		For >3 To 9, Deduct	*-177.98*	
		For >9, Deduct	*-367.82*	
32 94 43 00-0015	EA	93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame	2,938.10	178.14
		For >3 To 9, Deduct	*-193.64*	
		For >9, Deduct	*-400.18*	

32 94 43 00-0016 Square Cast Iron Tree Grates With Frames *(32 94 43 00-0001)*

32 94 43 00-0017	EA	30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame	644.76	53.44
		For >3 To 9, Deduct	*-40.34*	
		For >9, Deduct	*-83.37*	
32 94 43 00-0018	EA	36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame	779.23	53.44
		For >3 To 9, Deduct	*-50.43*	
		For >9, Deduct	*-104.21*	
32 94 43 00-0019	EA	48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame	1,158.98	89.07
		For >3 To 9, Deduct	*-73.56*	
		For >9, Deduct	*-152.03*	
32 94 43 00-0020	EA	48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame	1,364.64	89.07
		For >3 To 9, Deduct	*-88.99*	
		For >9, Deduct	*-183.91*	
32 94 43 00-0021	EA	48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame	1,554.48	89.07
		For >3 To 9, Deduct	*-103.23*	
		For >9, Deduct	*-213.33*	
32 94 43 00-0022	EA	48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame	1,728.50	89.07
		For >3 To 9, Deduct	*-116.28*	
		For >9, Deduct	*-240.31*	
32 94 43 00-0023	EA	48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame	1,886.70	89.07
		For >3 To 9, Deduct	*-128.14*	
		For >9, Deduct	*-264.83*	
32 94 43 00-0024	EA	48" x 48", >400 LB Cast Iron Tree Grate With Frame	2,029.08	89.07
		For >3 To 9, Deduct	*-138.82*	
		For >9, Deduct	*-286.90*	
32 94 43 00-0025	EA	60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame	1,957.96	124.70
		For >3 To 9, Deduct	*-128.14*	
		For >9, Deduct	*-264.83*	
32 94 43 00-0026	EA	60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame	2,100.34	124.70
		For >3 To 9, Deduct	*-138.82*	
		For >9, Deduct	*-286.90*	
32 94 43 00-0027	EA	60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame	2,226.90	124.70
		For >3 To 9, Deduct	*-148.31*	
		For >9, Deduct	*-306.51*	
32 94 43 00-0028	EA	60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame	2,337.64	124.70
		For >3 To 9, Deduct	*-156.62*	
		For >9, Deduct	*-323.68*	
32 94 43 00-0029	EA	60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame	2,432.56	124.70
		For >3 To 9, Deduct	*-163.74*	
		For >9, Deduct	*-338.39*	
32 94 43 00-0030	EA	60" x 60", >600 LB Cast Iron Tree Grate With Frame	2,511.66	124.70
		For >3 To 9, Deduct	*-169.67*	
		For >9, Deduct	*-350.65*	
32 94 43 00-0031	EA	72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame	2,391.07	151.42
		For >3 To 9, Deduct	*-156.62*	
		For >9, Deduct	*-323.68*	
32 94 43 00-0032	EA	72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame	2,485.99	151.42
		For >3 To 9, Deduct	*-163.74*	
		For >9, Deduct	*-338.39*	
32 94 43 00-0033	EA	72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame	2,565.09	151.42
		For >3 To 9, Deduct	*-169.67*	
		For >9, Deduct	*-350.65*	
32 94 43 00-0034	EA	72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame	2,628.37	151.42
		For >3 To 9, Deduct	*-174.42*	
		For >9, Deduct	*-360.46*	
32 94 43 00-0035	EA	72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame	2,675.83	151.42
		For >3 To 9, Deduct	*-177.98*	
		For >9, Deduct	*-367.82*	
32 94 43 00-0036	EA	72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame	2,707.47	151.42
		For >3 To 9, Deduct	*-180.35*	
		For >9, Deduct	*-372.72*	
32 94 43 00-0037	EA	72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame	2,723.29	151.42
		For >3 To 9, Deduct	*-181.53*	
		For >9, Deduct	*-375.17*	
32 94 43 00-0038	EA	72" x 72", >850 LB Cast Iron Tree Grate With Frame	2,739.11	151.42
		For >3 To 9, Deduct	*-182.72*	
		For >9, Deduct	*-377.62*	

32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames *(32 94 43 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0040	EA	36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame	1,210.36	71.26
		For >3 To 9, Deduct	*-80.09*	
		For >9, Deduct	*-165.52*	
32 94 43 00-0041	EA	36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame	1,234.09	71.26
		For >3 To 9, Deduct	*-81.87*	
		For >9, Deduct	*-169.19*	
32 94 43 00-0042	EA	36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame	1,508.60	89.07
		For >3 To 9, Deduct	*-99.78*	
		For >9, Deduct	*-206.22*	
32 94 43 00-0043	EA	48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame	1,772.80	89.07
		For >3 To 9, Deduct	*-119.60*	
		For >9, Deduct	*-247.17*	
32 94 43 00-0044	EA	48" x 72", >350 LB Cast Iron Tree Grate With Frame	1,886.70	89.07
		For >3 To 9, Deduct	*-128.14*	
		For >9, Deduct	*-264.83*	
32 94 43 00-0045	EA	60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame	2,533.45	151.42
		For >3 To 9, Deduct	*-167.30*	
		For >9, Deduct	*-345.75*	

32 94 49 Plant and Tree Accessories *(32 94)*

32 94 49 00-0001 Tree Guying *(32 94 49)*

32 94 49 00-0002 Tree Guying, Stakes *(32 94 49 00-0001)*

Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.

32 94 49 00-0003	EA	Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap	28.79
32 94 49 00-0004	EA	Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap	46.79
32 94 49 00-0005	EA	Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap	80.65

32 94 49 00-0006 Tree Guying, Anchors *(32 94 49 00-0001)*

Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.

32 94 49 00-0007	EA	Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope	128.39
32 94 49 00-0008	EA	Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope	174.09
32 94 49 00-0009	EA	Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope	226.80
32 94 49 00-0010	EA	Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope	287.20

32 94 49 00-0011 Tree Wrap *(32 94 49)*

32 94 49 00-0012	EA	Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree	6.08
32 94 49 00-0013	EA	Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree	10.01
32 94 49 00-0014	EA	Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree	19.65
32 94 49 00-0015	EA	Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree	29.92

32 94 49 00-0016 Tree Guards *(32 94 49)*

32 94 49 00-0017	EA	3' Preformed Plastic Tree Guard	10.08
32 94 49 00-0018	EA	2' Preformed Plastic Tree Guard	9.31

32 94 49 00-0019 Stake Out Tree And Shrub Locations *(32 94 49)*

Note: When no design available.

32 94 49 00-0020	EA	Stake Out Trees Or Shrubs	6.23

32 94 49 00-0021 Root Barriers *(32 94 49)*

32 94 49 00-0022	EA	12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	9.19
32 94 49 00-0023	EA	18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	12.68
32 94 49 00-0024	EA	24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	14.89
32 94 49 00-0025	EA	36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	27.14
32 94 49 00-0026	EA	48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	37.20

32 96 Transplanting *(32 90)*

See CSI section 32 94 49 00-0001 for guying.

32 96 33 Shrub Transplanting *(32 96)*

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 33 00-0001 Moving Shrubs On Site, Relocate *(32 96 33)*

Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.

32 96 33 00-0002	EA	Up To 18" Root Ball, Move Shrubs On Site	70.10
		For >25 To 50, Deduct	*-7.01*
		For >50, Deduct	*-10.52*
32 96 33 00-0003	EA	>18" To 24" Root Ball, Move Shrubs On Site	94.84
		For >25 To 50, Deduct	*-9.48*
		For >50, Deduct	*-14.23*
32 96 33 00-0004	EA	>24" To 30" Root Ball, Move Shrubs On Site	160.80
		For >25 To 50, Deduct	*-16.08*
		For >50, Deduct	*-24.12*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 33 00-0005	EA	>30" To 36" Root Ball, Move Shrubs On Site	247.40	
		For >25 To 50, Deduct	*-24.74*	
		For >50, Deduct	*-37.11*	

32 96 43 Tree Transplanting *(32 96)*

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 43 00-0001 Moving Trees On Site, Relocate *(32 96 43)*

Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0841 for crane lifting equipment, 32 94 49 00-0001 for guying.

32 96 43 00-0002	EA	Up To 24" Root Ball, Move Trees On Site	264.96	
		For >5 To 10, Deduct	*-13.25*	
		For >10 To 20, Deduct	*-26.50*	
		For >20, Deduct	*-39.74*	
32 96 43 00-0003	EA	>24" To 30" Root Ball, Move Trees On Site	363.37	
		For >5 To 10, Deduct	*-18.17*	
		For >10 To 20, Deduct	*-36.34*	
		For >20, Deduct	*-54.51*	
32 96 43 00-0004	EA	>30" To 36" Root Ball, Move Trees On Site	588.79	
		For >5 To 10, Deduct	*-29.44*	
		For >10 To 20, Deduct	*-58.88*	
		For >20, Deduct	*-88.32*	
32 96 43 00-0005	EA	>36" To 48" Root Ball, Move Trees On Site	978.31	
		For >5 To 10, Deduct	*-48.92*	
		For >10 To 20, Deduct	*-97.83*	
		For >20, Deduct	*-146.75*	
32 96 43 00-0006	EA	>48" To 60" Root Ball, Move Trees On Site	1,589.75	
		For >5 To 10, Deduct	*-79.49*	
		For >10 To 20, Deduct	*-158.98*	
		For >20, Deduct	*-238.46*	
32 96 43 00-0007	EA	>60" To 72" Root Ball, Move Trees On Site	2,051.30	
		For >5 To 10, Deduct	*-102.57*	
		For >10 To 20, Deduct	*-205.13*	
		For >20, Deduct	*-307.70*	
32 96 43 00-0008	EA	>72" To 84" Root Ball, Move Trees On Site	2,649.60	
		For >5 To 10, Deduct	*-132.48*	
		For >10 To 20, Deduct	*-264.96*	
		For >20, Deduct	*-397.44*	
32 96 43 00-0009	EA	>84" To 96" Root Ball, Move Trees On Site	3,179.52	
		For >5 To 10, Deduct	*-158.98*	
		For >10 To 20, Deduct	*-317.95*	
		For >20, Deduct	*-476.93*	
32 96 43 00-0010	EA	>96" To 120" Root Ball, Move Trees On Site	3,613.08	
		For >5 To 10, Deduct	*-180.65*	
		For >10 To 20, Deduct	*-361.31*	
		For >20, Deduct	*-541.96*	

END OF SECTION 32

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 Utilities

33 01 Operation and Maintenance of Utilities *(33)*

33 01 10 Operation and Maintenance of Water Utilities *(33 01)*

33 01 10 54 Cleaning of Water Utility Piping *(33 01 10)*

See CSI section 33 01 30 41-0006 for cleaning of water lines.

33 01 10 58 Disinfection of Water Utility Piping Systems *(33 01 10)*

33 01 10 58-0001 Water Main Disinfection/Sterilization *(33 01 10 58)*

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	932.00	
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	466.01	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.35	
		For >250 To 500, Deduct	*-0.02*	
		For >500 To 1,000, Deduct	*-0.04*	
		For >1,000 To 2,000, Deduct	*-0.05*	
		For >2,000 To 5,000, Deduct	*-0.07*	
		For >5,000, Deduct	*-0.09*	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization	0.54	
		For >250 To 500, Deduct	*-0.03*	
		For >500 To 1,000, Deduct	*-0.05*	
		For >1,000 To 2,000, Deduct	*-0.08*	
		For >2,000 To 5,000, Deduct	*-0.11*	
		For >5,000, Deduct	*-0.14*	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization	0.70	
		For >250 To 500, Deduct	*-0.04*	
		For >500 To 1,000, Deduct	*-0.07*	
		For >1,000 To 2,000, Deduct	*-0.11*	
		For >2,000 To 5,000, Deduct	*-0.14*	
		For >5,000, Deduct	*-0.18*	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization	0.82	
		For >250 To 500, Deduct	*-0.04*	
		For >500 To 1,000, Deduct	*-0.08*	
		For >1,000 To 2,000, Deduct	*-0.12*	
		For >2,000 To 5,000, Deduct	*-0.16*	
		For >5,000, Deduct	*-0.21*	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization	1.07	
		For >250 To 500, Deduct	*-0.05*	
		For >500 To 1,000, Deduct	*-0.11*	
		For >1,000 To 2,000, Deduct	*-0.16*	
		For >2,000 To 5,000, Deduct	*-0.21*	
		For >5,000, Deduct	*-0.27*	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.22	
		For >250 To 500, Deduct	*-0.06*	
		For >500 To 1,000, Deduct	*-0.12*	
		For >1,000 To 2,000, Deduct	*-0.18*	
		For >2,000 To 5,000, Deduct	*-0.24*	
		For >5,000, Deduct	*-0.31*	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.39	
		For >250 To 500, Deduct	*-0.07*	
		For >500 To 1,000, Deduct	*-0.14*	
		For >1,000 To 2,000, Deduct	*-0.21*	
		For >2,000 To 5,000, Deduct	*-0.28*	
		For >5,000, Deduct	*-0.35*	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.64	
		For >250 To 500, Deduct	*-0.08*	
		For >500 To 1,000, Deduct	*-0.16*	
		For >1,000 To 2,000, Deduct	*-0.25*	
		For >2,000 To 5,000, Deduct	*-0.33*	
		For >5,000, Deduct	*-0.41*	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.12	
		For >250 To 500, Deduct	*-0.11*	
		For >500 To 1,000, Deduct	*-0.21*	
		For >1,000 To 2,000, Deduct	*-0.32*	
		For >2,000 To 5,000, Deduct	*-0.42*	
		For >5,000, Deduct	*-0.53*	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.10	
		For >250 To 500, Deduct	*-0.16*	
		For >500 To 1,000, Deduct	*-0.31*	
		For >1,000 To 2,000, Deduct	*-0.47*	
		For >2,000 To 5,000, Deduct	*-0.62*	
		For >5,000, Deduct	*-0.78*	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization	4.30	
		For >250 To 500, Deduct	*-0.22*	
		For >500 To 1,000, Deduct	*-0.43*	
		For >1,000 To 2,000, Deduct	*-0.65*	
		For >2,000 To 5,000, Deduct	*-0.86*	
		For >5,000, Deduct	*-1.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 01 10 71 Relining Water Utilities Pipelines *(33 01 10)*

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001 Relining Underground Water Pipelines *(33 01 10 71)*

Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.

33 01 10 71-0002 Relining Underground Water Pipelines Set-Up And Reinsertion *(33 01 10 71-0001)*

33 01 10 71-0003	EA	Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines	4,625.43	
33 01 10 71-0004	EA	Move And Reset Up At Different Access/Location	1,850.16	

33 01 10 71-0005 Lining Pipe With Cement *(33 01 10 71-0001)*

33 01 10 71-0006	LF	Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	54.63	
		For 3/16" Thickness, Add	*0.55*	
		For 1/4" Thickness, Add	*1.09*	
33 01 10 71-0007	LF	>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	48.58	
		For 3/16" Thickness, Add	*0.55*	
		For 1/4" Thickness, Add	*1.09*	
33 01 10 71-0008	LF	>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	40.48	
		For 3/16" Thickness, Add	*0.55*	
		For 1/4" Thickness, Add	*1.09*	
33 01 10 71-0009	LF	>5,000', 4" Pipe, 1/8" Pipe Lining With Cement	30.31	
		For 3/16" Thickness, Add	*0.55*	
		For 1/4" Thickness, Add	*1.09*	
33 01 10 71-0010	LF	Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	56.54	
		For 3/16" Thickness, Add	*0.81*	
		For 1/4" Thickness, Add	*1.62*	
33 01 10 71-0011	LF	>500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	50.27	
		For 3/16" Thickness, Add	*0.81*	
		For 1/4" Thickness, Add	*1.62*	
33 01 10 71-0012	LF	>1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	41.89	
		For 3/16" Thickness, Add	*0.81*	
		For 1/4" Thickness, Add	*1.62*	
33 01 10 71-0013	LF	>5,000', 6" Pipe, 1/8" Pipe Lining With Cement	31.58	
		For 3/16" Thickness, Add	*0.81*	
		For 1/4" Thickness, Add	*1.62*	
33 01 10 71-0014	LF	Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	58.38	
		For 3/16" Thickness, Add	*1.08*	
		For 1/4" Thickness, Add	*2.16*	
33 01 10 71-0015	LF	>500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	51.96	
		For 3/16" Thickness, Add	*1.08*	
		For 1/4" Thickness, Add	*2.16*	
33 01 10 71-0016	LF	>1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	43.30	
		For 3/16" Thickness, Add	*1.08*	
		For 1/4" Thickness, Add	*2.16*	
33 01 10 71-0017	LF	>5,000', 8" Pipe, 1/8" Pipe Lining With Cement	32.85	
		For 3/16" Thickness, Add	*1.08*	
		For 1/4" Thickness, Add	*2.16*	
33 01 10 71-0018	LF	Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	59.71	
		For 3/16" Thickness, Add	*1.36*	
		For 1/4" Thickness, Add	*2.71*	
33 01 10 71-0019	LF	>500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	53.20	
		For 3/16" Thickness, Add	*1.36*	
		For 1/4" Thickness, Add	*2.71*	
33 01 10 71-0020	LF	>1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	44.41	
		For 3/16" Thickness, Add	*1.36*	
		For 1/4" Thickness, Add	*2.71*	
33 01 10 71-0021	LF	>5,000', 10" Pipe, 1/8" Pipe Lining With Cement	34.15	
		For 3/16" Thickness, Add	*1.36*	
		For 1/4" Thickness, Add	*2.71*	
33 01 10 71-0022	LF	Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	64.36	
		For 3/16" Thickness, Add	*1.63*	
		For 1/4" Thickness, Add	*3.25*	
33 01 10 71-0023	LF	>500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	57.44	
		For 3/16" Thickness, Add	*1.63*	
		For 1/4" Thickness, Add	*3.25*	
33 01 10 71-0024	LF	>1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	48.09	
		For 3/16" Thickness, Add	*1.63*	
		For 1/4" Thickness, Add	*3.25*	
33 01 10 71-0025	LF	>5,000', 12" Pipe, 1/8" Pipe Lining With Cement	37.00	
		For 3/16" Thickness, Add	*1.63*	
		For 1/4" Thickness, Add	*3.25*	
33 01 10 71-0026	LF	Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	68.38	
		For 1/4" Thickness, Add	*1.81*	
		For 5/16" Thickness, Add	*3.61*	
33 01 10 71-0027	LF	>500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	61.21	
		For 1/4" Thickness, Add	*1.81*	
		For 5/16" Thickness, Add	*3.61*	
33 01 10 71-0028	LF	>1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	51.47	
		For 1/4" Thickness, Add	*1.81*	
		For 5/16" Thickness, Add	*3.61*	
33 01 10 71-0029	LF	>5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	40.83	
		For 1/4" Thickness, Add	*1.81*	
		For 5/16" Thickness, Add	*3.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030	LF	Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	71.30	
		For 1/4" Thickness, Add	*2.16*	
		For 5/16" Thickness, Add	*4.33*	
33 01 10 71-0031	LF	>500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	63.89	
		For 1/4" Thickness, Add	*2.16*	
		For 5/16" Thickness, Add	*4.33*	
33 01 10 71-0032	LF	>1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	53.83	
		For 1/4" Thickness, Add	*2.16*	
		For 5/16" Thickness, Add	*4.33*	
33 01 10 71-0033	LF	>5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	43.75	
		For 1/4" Thickness, Add	*2.16*	
		For 5/16" Thickness, Add	*4.33*	
33 01 10 71-0034	LF	Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	75.08	
		For 1/4" Thickness, Add	*2.53*	
		For 5/16" Thickness, Add	*5.05*	
33 01 10 71-0035	LF	>500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	67.41	
		For 1/4" Thickness, Add	*2.53*	
		For 5/16" Thickness, Add	*5.05*	
33 01 10 71-0036	LF	>1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	56.86	
		For 1/4" Thickness, Add	*2.53*	
		For 5/16" Thickness, Add	*5.05*	
33 01 10 71-0037	LF	>5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	47.43	
		For 1/4" Thickness, Add	*2.53*	
		For 5/16" Thickness, Add	*5.05*	
33 01 10 71-0038	LF	Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	78.93	
		For 1/4" Thickness, Add	*2.89*	
		For 5/16" Thickness, Add	*5.77*	
33 01 10 71-0039	LF	>500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	70.95	
		For 1/4" Thickness, Add	*2.89*	
		For 5/16" Thickness, Add	*5.77*	
33 01 10 71-0040	LF	>1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	60.07	
		For 1/4" Thickness, Add	*2.89*	
		For 5/16" Thickness, Add	*5.77*	
33 01 10 71-0041	LF	>5,000', 24" Pipe, 3/16" Pipe Lining With Cement	51.28	
		For 1/4" Thickness, Add	*2.89*	
		For 5/16" Thickness, Add	*5.77*	
33 01 10 71-0042	LF	Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	83.77	
		For 1/4" Thickness, Add	*3.61*	
		For 5/16" Thickness, Add	*7.21*	
33 01 10 71-0043	LF	>500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	75.33	
		For 1/4" Thickness, Add	*3.61*	
		For 5/16" Thickness, Add	*7.21*	
33 01 10 71-0044	LF	>1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	63.80	
		For 1/4" Thickness, Add	*3.61*	
		For 5/16" Thickness, Add	*7.21*	
33 01 10 71-0045	LF	>5,000', 30" Pipe, 3/16" Pipe Lining With Cement	54.93	
		For 1/4" Thickness, Add	*3.61*	
		For 5/16" Thickness, Add	*7.21*	
33 01 10 71-0046	LF	Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	88.54	
		For 1/4" Thickness, Add	*4.33*	
		For 5/16" Thickness, Add	*8.66*	
33 01 10 71-0047	LF	500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	79.72	
		For 1/4" Thickness, Add	*4.33*	
		For 5/16" Thickness, Add	*8.66*	
33 01 10 71-0048	LF	>1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	67.55	
		For 1/4" Thickness, Add	*4.33*	
		For 5/16" Thickness, Add	*8.66*	
33 01 10 71-0049	LF	>5,000', 36" Pipe, 3/16" Pipe Lining With Cement	58.58	
		For 1/4" Thickness, Add	*4.33*	
		For 5/16" Thickness, Add	*8.66*	
33 01 10 71-0050	LF	Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	105.30	
		For 3/8" Thickness, Add	*11.37*	
		For 7/16" Thickness, Add	*17.05*	
33 01 10 71-0051	LF	>500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	95.69	
		For 3/8" Thickness, Add	*11.37*	
		For 7/16" Thickness, Add	*17.05*	
33 01 10 71-0052	LF	>1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	82.46	
		For 3/8" Thickness, Add	*11.37*	
		For 7/16" Thickness, Add	*17.05*	
33 01 10 71-0053	LF	>5,000', 42" Pipe, 1/4" Pipe Lining With Cement	73.22	
		For 3/8" Thickness, Add	*11.37*	
		For 7/16" Thickness, Add	*17.05*	
33 01 10 71-0054	LF	Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	115.49	
		For 3/8" Thickness, Add	*12.99*	
		For 7/16" Thickness, Add	*19.49*	
33 01 10 71-0055	LF	>500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	105.21	
		For 3/8" Thickness, Add	*12.99*	
		For 7/16" Thickness, Add	*19.49*	
33 01 10 71-0056	LF	>1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	90.98	
		For 3/8" Thickness, Add	*12.99*	
		For 7/16" Thickness, Add	*19.49*	
33 01 10 71-0057	LF	>5,000', 48" Pipe, 1/4" Pipe Lining With Cement	81.55	
		For 3/8" Thickness, Add	*12.99*	
		For 7/16" Thickness, Add	*19.49*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058	LF	Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement	120.39	
		For 3/8" Thickness, Add	*14.61*	
		For 7/16" Thickness, Add	*21.92*	
33 01 10 71-0059	LF	>500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	109.90	
		For 3/8" Thickness, Add	*14.61*	
		For 7/16" Thickness, Add	*21.92*	
33 01 10 71-0060	LF	>1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	95.33	
		For 3/8" Thickness, Add	*14.61*	
		For 7/16" Thickness, Add	*21.92*	
33 01 10 71-0061	LF	>5,000', 54" Pipe, 1/4" Pipe Lining With Cement	86.27	
		For 3/8" Thickness, Add	*14.61*	
		For 7/16" Thickness, Add	*21.92*	
33 01 10 71-0062	LF	Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement	125.31	
		For 3/8" Thickness, Add	*16.24*	
		For 7/16" Thickness, Add	*24.36*	
33 01 10 71-0063	LF	>500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	114.63	
		For 3/8" Thickness, Add	*16.24*	
		For 7/16" Thickness, Add	*24.36*	
33 01 10 71-0064	LF	>1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	99.80	
		For 3/8" Thickness, Add	*16.24*	
		For 7/16" Thickness, Add	*24.36*	
33 01 10 71-0065	LF	>5,000', 60" Pipe, 1/4" Pipe Lining With Cement	91.01	
		For 3/8" Thickness, Add	*16.24*	
		For 7/16" Thickness, Add	*24.36*	
33 01 10 71-0066	LF	Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement	130.50	
		For 3/8" Thickness, Add	*17.87*	
		For 7/16" Thickness, Add	*26.80*	
33 01 10 71-0067	LF	>500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	119.59	
		For 3/8" Thickness, Add	*17.87*	
		For 7/16" Thickness, Add	*26.80*	
33 01 10 71-0068	LF	>1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	104.52	
		For 3/8" Thickness, Add	*17.87*	
		For 7/16" Thickness, Add	*26.80*	
33 01 10 71-0069	LF	>5,000', 66" Pipe, 1/4" Pipe Lining With Cement	96.38	
		For 3/8" Thickness, Add	*17.87*	
		For 7/16" Thickness, Add	*26.80*	
33 01 10 71-0070	LF	Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement	136.06	
		For 3/8" Thickness, Add	*19.49*	
		For 7/16" Thickness, Add	*29.23*	
33 01 10 71-0071	LF	>500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	124.96	
		For 3/8" Thickness, Add	*19.49*	
		For 7/16" Thickness, Add	*29.23*	
33 01 10 71-0072	LF	>1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	109.52	
		For 3/8" Thickness, Add	*19.49*	
		For 7/16" Thickness, Add	*29.23*	
33 01 10 71-0073	LF	>5,000', 72" Pipe, 1/4" Pipe Lining With Cement	101.84	
		For 3/8" Thickness, Add	*19.49*	
		For 7/16" Thickness, Add	*29.23*	

33 01 30 Operation and Maintenance of Sewer Utilities *(33 01)*

33 01 30 11 Television Inspection Of Pipelines *(33 01 30)*

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts *(33 01 30 11)*

33 01 30 11-0002 Video Camera Set-up *(33 01 30 11-0001)*

33 01 30 11-0003	EA	Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.	805.80	
33 01 30 11-0004	EA	Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).	1,611.61	
33 01 30 11-0005	EA	Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,417.40	
33 01 30 11-0006	EA	Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	402.90	
33 01 30 11-0007	EA	Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	805.80	

33 01 30 11-0008 Video Camera Planning And Analysis Inspection *(33 01 30 11-0001)*

Note: For pipe interior and culverts.

33 01 30 11-0009	LF	4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	2.04	
		For >500 To 1,000, Deduct	*-0.20*	
		For >1,000 To 5,000, Deduct	*-0.51*	
		For >5,000, Deduct	*-0.71*	
		For Inspection Not Requiring Pre-cleaning, Deduct	*-0.31*	
33 01 30 11-0010	LF	>6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase Note: CCTV inspection of pipe interior.	2.73	
		For >500 To 1,000, Deduct	*-0.27*	
		For >1,000 To 5,000, Deduct	*-0.68*	
		For >5,000, Deduct	*-0.96*	
		For Inspection Not Requiring Pre-cleaning, Deduct	*-0.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0011	LF	>12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase	3.40	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.34*	
		For >1,000 To 5,000, Deduct	*-0.85*	
		For >5,000, Deduct	*-1.19*	
		For Inspection Not Requiring Pre-cleaning, Deduct	*-0.51*	
33 01 30 11-0012	LF	>21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase	4.54	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.45*	
		For >1,000 To 5,000, Deduct	*-1.14*	
		For >5,000, Deduct	*-1.59*	
		For Inspection Not Requiring Pre-cleaning, Deduct	*-0.68*	
33 01 30 11-0013	LF	>30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase	6.39	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.64*	
		For >1,000 To 5,000, Deduct	*-1.60*	
		For >5,000, Deduct	*-2.24*	
		For Inspection Not Requiring Pre-cleaning, Deduct	*-0.96*	
33 01 30 11-0014	LF	>42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase	8.51	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.85*	
		For >1,000 To 5,000, Deduct	*-2.13*	
		For >5,000, Deduct	*-2.98*	
		For Inspection Not Requiring Pre-cleaning, Deduct	*-1.28*	
33 01 30 11-0015	LF	>60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase	12.02	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-1.20*	
		For >1,000 To 5,000, Deduct	*-3.01*	
		For >5,000, Deduct	*-4.21*	
		For Inspection Not Requiring Pre-cleaning, Deduct	*-1.80*	
33 01 30 11-0016	LF	>72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase	17.02	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-1.70*	
		For >1,000 To 5,000, Deduct	*-4.26*	
		For >5,000, Deduct	*-5.96*	
		For Inspection Not Requiring Pre-cleaning, Deduct	*-2.55*	

33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts *(33 01 30 11-0001)*

33 01 30 11-0018	LF	4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase	3.02	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.30*	
		For >1,000 To 5,000, Deduct	*-0.76*	
		For >5,000, Deduct	*-1.06*	
33 01 30 11-0019	LF	>6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase	4.03	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.40*	
		For >1,000 To 5,000, Deduct	*-1.01*	
		For >5,000, Deduct	*-1.41*	
33 01 30 11-0020	LF	>12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase	5.04	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.50*	
		For >1,000 To 5,000, Deduct	*-1.26*	
		For >5,000, Deduct	*-1.76*	
33 01 30 11-0021	LF	>21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase	6.71	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.67*	
		For >1,000 To 5,000, Deduct	*-1.68*	
		For >5,000, Deduct	*-2.35*	
33 01 30 11-0022	LF	>30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase	9.45	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.95*	
		For >1,000 To 5,000, Deduct	*-2.36*	
		For >5,000, Deduct	*-3.31*	
33 01 30 11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase	12.59	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-1.26*	
		For >1,000 To 5,000, Deduct	*-3.15*	
		For >5,000, Deduct	*-4.41*	
33 01 30 11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase	17.77	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-1.78*	
		For >1,000 To 5,000, Deduct	*-4.44*	
		For >5,000, Deduct	*-6.22*	
33 01 30 11-0025	LF	>72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase	25.18	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-2.52*	
		For >1,000 To 5,000, Deduct	*-6.30*	
		For >5,000, Deduct	*-8.81*	

33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts *(33 01 30 11-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0027	LF	4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase	2.16	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.22*	
		For >1,000 To 5,000, Deduct	*-0.54*	
		For >5,000, Deduct	*-0.76*	
33 01 30 11-0028	LF	>6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase	2.88	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.29*	
		For >1,000 To 5,000, Deduct	*-0.72*	
		For >5,000, Deduct	*-1.01*	
33 01 30 11-0029	LF	>12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase	3.59	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.36*	
		For >1,000 To 5,000, Deduct	*-0.90*	
		For >5,000, Deduct	*-1.26*	
33 01 30 11-0030	LF	>21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase	4.80	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.48*	
		For >1,000 To 5,000, Deduct	*-1.20*	
		For >5,000, Deduct	*-1.68*	
33 01 30 11-0031	LF	>30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase	6.75	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.68*	
		For >1,000 To 5,000, Deduct	*-1.69*	
		For >5,000, Deduct	*-2.36*	
33 01 30 11-0032	LF	>42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase	9.00	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-0.90*	
		For >1,000 To 5,000, Deduct	*-2.25*	
		For >5,000, Deduct	*-3.15*	
33 01 30 11-0033	LF	>60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase	12.69	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-1.27*	
		For >1,000 To 5,000, Deduct	*-3.17*	
		For >5,000, Deduct	*-4.44*	
33 01 30 11-0034	LF	>72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase	17.98	
		Note: CCTV inspection of pipe interior.		
		For >500 To 1,000, Deduct	*-1.80*	
		For >1,000 To 5,000, Deduct	*-4.50*	
		For >5,000, Deduct	*-6.29*	

33 01 30 41 Cleaning of Sewers *(33 01 30)*

33 01 30 41-0001 Pipe Line Cleaning And Flushing *(33 01 30 41)*

Note: Includes flushing. Owner provided water.

33 01 30 41-0002 Pipe Line Cleaning *(33 01 30 41-0001)*

Note: Includes removal of all debris/waste. Excludes disposal.

33 01 30 41-0003 Hydro Jet Set-up And Reinsertion *(33 01 30 41-0002)*

33 01 30 41-0004	EA	Initial Set Up And Final Equipment Removal For Jet Cleaning	2,485.65	
33 01 30 41-0005	EA	Move And Reset Up At Different Access/Location For Jet Cleaning	621.41	

33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines *(33 01 30 41-0002)*

33 01 30 41-0007	LF	Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.34	
		For >250 To 500, Deduct	*-0.17*	
		For >500 To 1,000, Deduct	*-0.33*	
		For >1,000 To 2,000, Deduct	*-0.50*	
		For >2,000 To 5,000, Deduct	*-0.67*	
		For >5,000, Deduct	*-0.84*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*2.51*	
33 01 30 41-0008	LF	6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.83	
		For >250 To 500, Deduct	*-0.19*	
		For >500 To 1,000, Deduct	*-0.38*	
		For >1,000 To 2,000, Deduct	*-0.57*	
		For >2,000 To 5,000, Deduct	*-0.77*	
		For >5,000, Deduct	*-0.96*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*2.87*	
33 01 30 41-0009	LF	8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.50	
		For >250 To 500, Deduct	*-0.23*	
		For >500 To 1,000, Deduct	*-0.45*	
		For >1,000 To 2,000, Deduct	*-0.68*	
		For >2,000 To 5,000, Deduct	*-0.90*	
		For >5,000, Deduct	*-1.13*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*3.38*	
33 01 30 41-0010	LF	10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.57	
		For >250 To 500, Deduct	*-0.28*	
		For >500 To 1,000, Deduct	*-0.56*	
		For >1,000 To 2,000, Deduct	*-0.84*	
		For >2,000 To 5,000, Deduct	*-1.11*	
		For >5,000, Deduct	*-1.39*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*4.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0011	LF	12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.32	
		For >250 To 500, Deduct	*-0.32*	
		For >500 To 1,000, Deduct	*-0.63*	
		For >1,000 To 2,000, Deduct	*-0.95*	
		For >2,000 To 5,000, Deduct	*-1.26*	
		For >5,000, Deduct	*-1.58*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*4.74*	
33 01 30 41-0012	LF	>12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	7.30	
		For >250 To 500, Deduct	*-0.37*	
		For >500 To 1,000, Deduct	*-0.73*	
		For >1,000 To 2,000, Deduct	*-1.10*	
		For >2,000 To 5,000, Deduct	*-1.46*	
		For >5,000, Deduct	*-1.83*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*5.48*	
33 01 30 41-0013	LF	>16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	8.78	
		For >250 To 500, Deduct	*-0.44*	
		For >500 To 1,000, Deduct	*-0.88*	
		For >1,000 To 2,000, Deduct	*-1.32*	
		For >2,000 To 5,000, Deduct	*-1.76*	
		For >5,000, Deduct	*-2.20*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*6.59*	
33 01 30 41-0014	LF	>24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	9.95	
		For >250 To 500, Deduct	*-0.50*	
		For >500 To 1,000, Deduct	*-1.00*	
		For >1,000 To 2,000, Deduct	*-1.49*	
		For >2,000 To 5,000, Deduct	*-1.99*	
		For >5,000, Deduct	*-2.49*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*7.46*	
33 01 30 41-0015	LF	>30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	11.77	
		For >250 To 500, Deduct	*-0.59*	
		For >500 To 1,000, Deduct	*-1.18*	
		For >1,000 To 2,000, Deduct	*-1.77*	
		For >2,000 To 5,000, Deduct	*-2.35*	
		For >5,000, Deduct	*-2.94*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*8.83*	
33 01 30 41-0016	LF	>42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	14.79	
		For >250 To 500, Deduct	*-0.74*	
		For >500 To 1,000, Deduct	*-1.48*	
		For >1,000 To 2,000, Deduct	*-2.22*	
		For >2,000 To 5,000, Deduct	*-2.96*	
		For >5,000, Deduct	*-3.70*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*11.09*	
33 01 30 41-0017	LF	>60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	17.26	
		For >250 To 500, Deduct	*-0.86*	
		For >500 To 1,000, Deduct	*-1.73*	
		For >1,000 To 2,000, Deduct	*-2.59*	
		For >2,000 To 5,000, Deduct	*-3.45*	
		For >5,000, Deduct	*-4.32*	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	*12.95*	

33 01 30 41-0018 Flushing Of Storm Water Pipelines *(33 01 30 41-0002)*

Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.

33 01 30 41-0019	LF	12" To 16" Diameter Pipe Line Flushing	1.33	
		For >250 To 500, Deduct	*-0.07*	
		For >500 To 1,000, Deduct	*-0.13*	
		For >1,000 To 2,000, Deduct	*-0.20*	
		For >2,000 To 5,000, Deduct	*-0.27*	
		For >5,000, Deduct	*-0.33*	
33 01 30 41-0020	LF	>16" To 24" Diameter Pipe Line Flushing	1.52	
		For >250 To 500, Deduct	*-0.08*	
		For >500 To 1,000, Deduct	*-0.15*	
		For >1,000 To 2,000, Deduct	*-0.23*	
		For >2,000 To 5,000, Deduct	*-0.30*	
		For >5,000, Deduct	*-0.38*	
33 01 30 41-0021	LF	>24" To 30" Diameter Pipe Line Flushing	1.79	
		For >250 To 500, Deduct	*-0.09*	
		For >500 To 1,000, Deduct	*-0.18*	
		For >1,000 To 2,000, Deduct	*-0.27*	
		For >2,000 To 5,000, Deduct	*-0.36*	
		For >5,000, Deduct	*-0.45*	
33 01 30 41-0022	LF	>30" To 42" Diameter Pipe Line Flushing	2.05	
		For >250 To 500, Deduct	*-0.10*	
		For >500 To 1,000, Deduct	*-0.21*	
		For >1,000 To 2,000, Deduct	*-0.31*	
		For >2,000 To 5,000, Deduct	*-0.41*	
		For >5,000, Deduct	*-0.51*	
33 01 30 41-0023	LF	>42" To 60" Diameter Pipe Line Flushing	2.73	
		For >250 To 500, Deduct	*-0.14*	
		For >500 To 1,000, Deduct	*-0.27*	
		For >1,000 To 2,000, Deduct	*-0.41*	
		For >2,000 To 5,000, Deduct	*-0.55*	
		For >5,000, Deduct	*-0.68*	

33 01 30 41-0024 Hydro Jet Cleaning Of Culverts *(33 01 30 41-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0025	LF	Jet Cleaning Of Culvert, 0-250 LF	15.46	
		For >250 To 500, Deduct	*-0.77*	
		For >500 To 1,000, Deduct	*-1.55*	
		For >1,000 To 2,000, Deduct	*-2.32*	
		For >2,000 To 5,000, Deduct	*-3.09*	
		For >5,000, Deduct	*-3.87*	

33 01 30 41-0026 Pipe Line Cleaning, Mechanical Method *(33 01 30 41-0001)*

Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.

33 01 30 41-0027	EA	Initial Set Up And Final Equipment Removal For Mechanical Cleaning	1,118.40	
33 01 30 41-0028	EA	Move And Reset Up At Different Access/Location	372.80	
33 01 30 41-0029	LF	Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	6.41	
		For >250 To 500, Deduct	*-0.31*	
		For >500 To 1,000, Deduct	*-0.62*	
		For >1,000 To 2,000, Deduct	*-0.93*	
		For >2,000 To 5,000, Deduct	*-1.24*	
		For >5,000, Deduct	*-1.56*	
33 01 30 41-0030	LF	6" Diameter Pipe Line Cleaning, Mechanical Method	8.36	
		For >250 To 500, Deduct	*-0.40*	
		For >500 To 1,000, Deduct	*-0.80*	
		For >1,000 To 2,000, Deduct	*-1.20*	
		For >2,000 To 5,000, Deduct	*-1.60*	
		For >5,000, Deduct	*-2.00*	
33 01 30 41-0031	LF	8" Diameter Pipe Line Cleaning, Mechanical Method	9.80	
		For >250 To 500, Deduct	*-0.47*	
		For >500 To 1,000, Deduct	*-0.93*	
		For >1,000 To 2,000, Deduct	*-1.40*	
		For >2,000 To 5,000, Deduct	*-1.86*	
		For >5,000, Deduct	*-2.33*	
33 01 30 41-0032	LF	10" Diameter Pipe Line Cleaning, Mechanical Method	11.34	
		For >250 To 500, Deduct	*-0.54*	
		For >500 To 1,000, Deduct	*-1.08*	
		For >1,000 To 2,000, Deduct	*-1.61*	
		For >2,000 To 5,000, Deduct	*-2.15*	
		For >5,000, Deduct	*-2.69*	
33 01 30 41-0033	LF	12" Diameter Pipe Line Cleaning, Mechanical Method	12.32	
		For >250 To 500, Deduct	*-0.58*	
		For >500 To 1,000, Deduct	*-1.17*	
		For >1,000 To 2,000, Deduct	*-1.75*	
		For >2,000 To 5,000, Deduct	*-2.33*	
		For >5,000, Deduct	*-2.91*	
33 01 30 41-0034	LF	>12" To 16" Diameter Pipe Line Cleaning, Mechanical Method	14.17	
		For >250 To 500, Deduct	*-0.67*	
		For >500 To 1,000, Deduct	*-1.33*	
		For >1,000 To 2,000, Deduct	*-2.00*	
		For >2,000 To 5,000, Deduct	*-2.66*	
		For >5,000, Deduct	*-3.33*	
33 01 30 41-0035	LF	>16" To 24" Diameter Pipe Line Cleaning, Mechanical Method	17.79	
		For >250 To 500, Deduct	*-0.82*	
		For >500 To 1,000, Deduct	*-1.65*	
		For >1,000 To 2,000, Deduct	*-2.47*	
		For >2,000 To 5,000, Deduct	*-3.29*	
		For >5,000, Deduct	*-4.11*	
33 01 30 41-0036	LF	>24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	20.26	
		For >250 To 500, Deduct	*-0.92*	
		For >500 To 1,000, Deduct	*-1.83*	
		For >1,000 To 2,000, Deduct	*-2.75*	
		For >2,000 To 5,000, Deduct	*-3.67*	
		For >5,000, Deduct	*-4.59*	
33 01 30 41-0037	LF	>30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	23.50	
		For >250 To 500, Deduct	*-1.06*	
		For >500 To 1,000, Deduct	*-2.11*	
		For >1,000 To 2,000, Deduct	*-3.17*	
		For >2,000 To 5,000, Deduct	*-4.22*	
		For >5,000, Deduct	*-5.28*	
33 01 30 41-0038	LF	>42 To 60" Diameter Pipe Line Cleaning, Mechanical Method	30.83	
		For >250 To 500, Deduct	*-1.40*	
		For >500 To 1,000, Deduct	*-2.80*	
		For >1,000 To 2,000, Deduct	*-4.19*	
		For >2,000 To 5,000, Deduct	*-5.59*	
		For >5,000, Deduct	*-6.99*	
33 01 30 41-0039	LF	>60" Diameter Pipe Line Cleaning, Mechanical Method	34.90	
		For >250 To 500, Deduct	*-1.55*	
		For >500 To 1,000, Deduct	*-3.11*	
		For >1,000 To 2,000, Deduct	*-4.66*	
		For >2,000 To 5,000, Deduct	*-6.21*	
		For >5,000, Deduct	*-7.77*	

33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe *(33 01 30 41-0001)*

33 01 30 41-0041	EA	Initial Set Up And Final Equipment Removal For Auguring	1,118.40	
33 01 30 41-0042	EA	Move And Reset Up At Different Location	372.80	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0043	LF	Up To 4" Diameter Pipe Line Auguring/Rod Out	3.73	
		For >250 To 500, Deduct	*-0.19*	
		For >500 To 1,000, Deduct	*-0.37*	
		For >1,000 To 2,000, Deduct	*-0.56*	
		For >2,000 To 5,000, Deduct	*-0.75*	
		For >5,000, Deduct	*-0.93*	
33 01 30 41-0044	LF	6" Diameter Pipe Line Auguring/Rod Out	4.82	
		For >250 To 500, Deduct	*-0.24*	
		For >500 To 1,000, Deduct	*-0.48*	
		For >1,000 To 2,000, Deduct	*-0.72*	
		For >2,000 To 5,000, Deduct	*-0.96*	
		For >5,000, Deduct	*-1.21*	
33 01 30 41-0045	LF	8" Diameter Pipe Line Auguring/Rod Out	5.59	
		For >250 To 500, Deduct	*-0.28*	
		For >500 To 1,000, Deduct	*-0.56*	
		For >1,000 To 2,000, Deduct	*-0.84*	
		For >2,000 To 5,000, Deduct	*-1.12*	
		For >5,000, Deduct	*-1.40*	
33 01 30 41-0046	LF	10" Diameter Pipe Line Auguring/Rod Out	6.50	
		For >250 To 500, Deduct	*-0.33*	
		For >500 To 1,000, Deduct	*-0.65*	
		For >1,000 To 2,000, Deduct	*-0.98*	
		For >2,000 To 5,000, Deduct	*-1.30*	
		For >5,000, Deduct	*-1.63*	
33 01 30 41-0047	LF	12" Diameter Pipe Line Auguring/Rod Out	6.99	
		For >250 To 500, Deduct	*-0.35*	
		For >500 To 1,000, Deduct	*-0.70*	
		For >1,000 To 2,000, Deduct	*-1.05*	
		For >2,000 To 5,000, Deduct	*-1.40*	
		For >5,000, Deduct	*-1.75*	
33 01 30 41-0048	LF	>12" To 16" Diameter Pipe Line Auguring/Rod Out	7.98	
		For >250 To 500, Deduct	*-0.40*	
		For >500 To 1,000, Deduct	*-0.80*	
		For >1,000 To 2,000, Deduct	*-1.20*	
		For >2,000 To 5,000, Deduct	*-1.60*	
		For >5,000, Deduct	*-2.00*	
33 01 30 41-0049	LF	>16" To 24" Diameter Pipe Line Auguring/Rod Out	9.81	
		For >250 To 500, Deduct	*-0.49*	
		For >500 To 1,000, Deduct	*-0.98*	
		For >1,000 To 2,000, Deduct	*-1.47*	
		For >2,000 To 5,000, Deduct	*-1.96*	
		For >5,000, Deduct	*-2.45*	
33 01 30 41-0050	LF	>24" To 30" Diameter Pipe Line Auguring/Rod Out	10.97	
		For >250 To 500, Deduct	*-0.55*	
		For >500 To 1,000, Deduct	*-1.10*	
		For >1,000 To 2,000, Deduct	*-1.65*	
		For >2,000 To 5,000, Deduct	*-2.19*	
		For >5,000, Deduct	*-2.74*	
33 01 30 41-0051	LF	>30" To 42" Diameter Pipe Line Auguring/Rod Out	12.71	
		For >250 To 500, Deduct	*-0.64*	
		For >500 To 1,000, Deduct	*-1.27*	
		For >1,000 To 2,000, Deduct	*-1.91*	
		For >2,000 To 5,000, Deduct	*-2.54*	
		For >5,000, Deduct	*-3.18*	
33 01 30 41-0052	LF	>42 To 60" Diameter Pipe Line Auguring/Rod Out	17.47	
		For >250 To 500, Deduct	*-0.87*	
		For >500 To 1,000, Deduct	*-1.75*	
		For >1,000 To 2,000, Deduct	*-2.62*	
		For >2,000 To 5,000, Deduct	*-3.49*	
		For >5,000, Deduct	*-4.37*	
33 01 30 41-0053	LF	>60" Diameter Pipe Line Auguring/Rod Out	18.64	
		For >250 To 500, Deduct	*-0.93*	
		For >500 To 1,000, Deduct	*-1.86*	
		For >1,000 To 2,000, Deduct	*-2.80*	
		For >2,000 To 5,000, Deduct	*-3.73*	
		For >5,000, Deduct	*-4.66*	

33 01 30 42 Cleaning of Manholes *(33 01 30)*

33 01 30 42-0001 Structure Cleaning And Flushing *(33 01 30 42)*

Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations *(33 01 30 42-0001)*

33 01 30 42-0003	EA	Rod Out Waste Water Drain	46.23
33 01 30 42-0004	EA	Rod Out Sewer Catch Basin	92.46
33 01 30 42-0005	EA	Up To 6" Diameter Pipe, Rod Out Blockage	18.49
33 01 30 42-0006	EA	8" Diameter Pipe, Rod Out Blockage	20.34
33 01 30 42-0007	EA	10" Diameter Pipe, Rod Out Blockage	23.12
33 01 30 42-0008	EA	12" Diameter Pipe, Rod Out Blockage	26.82
33 01 30 42-0009	EA	>12" To 16" Diameter Pipe, Rod Out Blockage	31.44
33 01 30 42-0010	EA	>16" To 24" Diameter Pipe, Rod Out Blockage	36.98
33 01 30 42-0011	EA	>24" To 30" Diameter Pipe, Rod Out Blockage	43.46
33 01 30 42-0012	EA	>30" To 42" Diameter Pipe, Rod Out Blockage	49.93
33 01 30 42-0013	EA	>42" To 60" Diameter Pipe, Rod Out Blockage	58.26
33 01 30 42-0014	EA	>60" Diameter Pipe, Rod Out Blockage	69.35

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 42-0015	EA	Clean Out Debris From Entrance To Inlet Structure	231.16	
33 01 30 42-0016	EA	3' To 4' Diameter, Clean Out Blocked Manhole By Hand	820.34	
		For >10 To 100, Deduct	*-123.05*	
		For >100 To 250, Deduct	*-184.58*	
		For >250, Deduct	*-246.10*	
33 01 30 42-0017	EA	5' To 6' Diameter, Clean Out Blocked Manhole By Hand	984.39	
		For >10 To 100, Deduct	*-147.66*	
		For >100 To 250, Deduct	*-221.49*	
		For >250, Deduct	*-295.32*	
33 01 30 42-0018	EA	Clean Out Blocked Catch Basin By Hand	492.20	
		For >10 To 100, Deduct	*-73.83*	
		For >100 To 250, Deduct	*-110.75*	
		For >250, Deduct	*-147.66*	

33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum *(33 01 30 42-0001)*

Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.

33 01 30 42-0020	EA	Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	259.20	
33 01 30 42-0021	EA	Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	240.88	
33 01 30 42-0022	EA	Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	222.57	
33 01 30 42-0023	EA	Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	204.25	
33 01 30 42-0024	EA	Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	185.92	
33 01 30 42-0025	EA	Jet/Vacuum Clean >250 Catch Basins Or Manholes	167.60	

33 01 30 51 Maintenance of Utilities *(33 01 30)*

33 01 30 51-0001 Pipe Repair *(33 01 30 51)*

33 01 30 51-0002 Pipe Repair Clamp, Full Circle, Single Band *(33 01 30 51-0001)*

Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.

33 01 30 51-0003	EA	2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	119.09	
		For Stainless Steel Nuts And Bolts, Add	*19.70*	
33 01 30 51-0004	EA	2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	169.61	
		For Stainless Steel Nuts And Bolts, Add	*29.69*	
33 01 30 51-0005	EA	2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	196.10	
		For Stainless Steel Nuts And Bolts, Add	*34.96*	
33 01 30 51-0006	EA	2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	223.52	
		For Stainless Steel Nuts And Bolts, Add	*40.22*	
33 01 30 51-0007	EA	2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	128.48	
		For Stainless Steel Nuts And Bolts, Add	*21.39*	
33 01 30 51-0008	EA	2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	180.30	
		For Stainless Steel Nuts And Bolts, Add	*31.68*	
33 01 30 51-0009	EA	2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	206.77	
		For Stainless Steel Nuts And Bolts, Add	*36.83*	
33 01 30 51-0010	EA	2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	239.06	
		For Stainless Steel Nuts And Bolts, Add	*43.10*	
33 01 30 51-0011	EA	3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	138.25	
		For Stainless Steel Nuts And Bolts, Add	*23.40*	
33 01 30 51-0012	EA	3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	187.59	
		For Stainless Steel Nuts And Bolts, Add	*33.12*	
33 01 30 51-0013	EA	3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	216.98	
		For Stainless Steel Nuts And Bolts, Add	*38.83*	
33 01 30 51-0014	EA	3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	253.15	
		For Stainless Steel Nuts And Bolts, Add	*46.10*	
33 01 30 51-0015	EA	4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	155.83	
		For Stainless Steel Nuts And Bolts, Add	*26.61*	
33 01 30 51-0016	EA	4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	205.96	
		For Stainless Steel Nuts And Bolts, Add	*35.82*	
33 01 30 51-0017	EA	4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	249.80	
		For Stainless Steel Nuts And Bolts, Add	*43.61*	
33 01 30 51-0018	EA	4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	300.95	
		For Stainless Steel Nuts And Bolts, Add	*52.60*	
33 01 30 51-0019	EA	4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	393.89	
		For Stainless Steel Nuts And Bolts, Add	*70.65*	
33 01 30 51-0020	EA	4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	490.20	
		For Stainless Steel Nuts And Bolts, Add	*88.70*	
33 01 30 51-0021	EA	4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	598.16	
		For Stainless Steel Nuts And Bolts, Add	*108.81*	
33 01 30 51-0022	EA	6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	183.20	
		For Stainless Steel Nuts And Bolts, Add	*31.40*	
33 01 30 51-0023	EA	6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	243.54	
		For Stainless Steel Nuts And Bolts, Add	*42.60*	
33 01 30 51-0024	EA	6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	288.40	
		For Stainless Steel Nuts And Bolts, Add	*50.23*	
33 01 30 51-0025	EA	6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	337.78	
		For Stainless Steel Nuts And Bolts, Add	*58.37*	
33 01 30 51-0026	EA	6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	468.54	
		For Stainless Steel Nuts And Bolts, Add	*84.58*	
33 01 30 51-0027	EA	6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	569.77	
		For Stainless Steel Nuts And Bolts, Add	*103.14*	
33 01 30 51-0028	EA	6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	680.54	
		For Stainless Steel Nuts And Bolts, Add	*123.25*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0029	EA	8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	238.01	
		For Stainless Steel Nuts And Bolts, Add	*37.57*	
33 01 30 51-0030	EA	8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	309.47	
		For Stainless Steel Nuts And Bolts, Add	*49.71*	
33 01 30 51-0031	EA	8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	373.57	
		For Stainless Steel Nuts And Bolts, Add	*60.16*	
33 01 30 51-0032	EA	8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	446.08	
		For Stainless Steel Nuts And Bolts, Add	*71.68*	
33 01 30 51-0033	EA	8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	593.25	
		For Stainless Steel Nuts And Bolts, Add	*99.31*	
33 01 30 51-0034	EA	8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	709.54	
		For Stainless Steel Nuts And Bolts, Add	*118.75*	
33 01 30 51-0035	EA	8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	840.11	
		For Stainless Steel Nuts And Bolts, Add	*139.77*	
33 01 30 51-0036	EA	10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	279.08	
		For Stainless Steel Nuts And Bolts, Add	*45.73*	
33 01 30 51-0037	EA	10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	375.32	
		For Stainless Steel Nuts And Bolts, Add	*63.25*	
33 01 30 51-0038	EA	10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	441.92	
		For Stainless Steel Nuts And Bolts, Add	*73.95*	
33 01 30 51-0039	EA	10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	542.35	
		For Stainless Steel Nuts And Bolts, Add	*91.46*	
33 01 30 51-0040	EA	10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	713.00	
		For Stainless Steel Nuts And Bolts, Add	*124.06*	
33 01 30 51-0041	EA	10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	811.01	
		For Stainless Steel Nuts And Bolts, Add	*138.66*	
33 01 30 51-0042	EA	10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,044.57	
		For Stainless Steel Nuts And Bolts, Add	*182.93*	
33 01 30 51-0043	EA	12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	317.58	
		For Stainless Steel Nuts And Bolts, Add	*51.58*	
33 01 30 51-0044	EA	12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	414.91	
		For Stainless Steel Nuts And Bolts, Add	*68.59*	
33 01 30 51-0045	EA	12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	500.89	
		For Stainless Steel Nuts And Bolts, Add	*83.00*	
33 01 30 51-0046	EA	12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	616.44	
		For Stainless Steel Nuts And Bolts, Add	*103.14*	
33 01 30 51-0047	EA	12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	793.92	
		For Stainless Steel Nuts And Bolts, Add	*136.23*	
33 01 30 51-0048	EA	12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	933.43	
		For Stainless Steel Nuts And Bolts, Add	*159.09*	
33 01 30 51-0049	EA	12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,187.13	
		For Stainless Steel Nuts And Bolts, Add	*206.28*	

33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands *(33 01 30 51-0001)*

Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.

33 01 30 51-0051	EA	14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	710.57	
		For Stainless Steel Nuts And Bolts, Add	*198.43*	
33 01 30 51-0052	EA	14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,008.03	
		For Stainless Steel Nuts And Bolts, Add	*286.46*	
33 01 30 51-0053	EA	14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,357.74	
		For Stainless Steel Nuts And Bolts, Add	*388.48*	
33 01 30 51-0054	EA	14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,001.67	
		For Stainless Steel Nuts And Bolts, Add	*585.52*	
33 01 30 51-0055	EA	15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	745.83	
		For Stainless Steel Nuts And Bolts, Add	*208.20*	
33 01 30 51-0056	EA	15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,055.20	
		For Stainless Steel Nuts And Bolts, Add	*299.74*	
33 01 30 51-0057	EA	15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,417.77	
		For Stainless Steel Nuts And Bolts, Add	*405.25*	
33 01 30 51-0058	EA	15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,098.29	
		For Stainless Steel Nuts And Bolts, Add	*613.46*	
33 01 30 51-0059	EA	15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	764.72	
		For Stainless Steel Nuts And Bolts, Add	*212.40*	
33 01 30 51-0060	EA	15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,080.06	
		For Stainless Steel Nuts And Bolts, Add	*305.34*	
33 01 30 51-0061	EA	15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,454.77	
		For Stainless Steel Nuts And Bolts, Add	*414.33*	
33 01 30 51-0062	EA	15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,151.32	
		For Stainless Steel Nuts And Bolts, Add	*626.73*	
33 01 30 51-0063	EA	16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	784.51	
		For Stainless Steel Nuts And Bolts, Add	*216.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0064	EA	16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,108.37	
		For Stainless Steel Nuts And Bolts, Add	*311.63*	
33 01 30 51-0065	EA	16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,490.44	
		For Stainless Steel Nuts And Bolts, Add	*422.01*	
33 01 30 51-0066	EA	16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,204.20	
		For Stainless Steel Nuts And Bolts, Add	*639.31*	
33 01 30 51-0067	EA	17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	802.28	
		For Stainless Steel Nuts And Bolts, Add	*220.09*	
33 01 30 51-0068	EA	17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,132.53	
		For Stainless Steel Nuts And Bolts, Add	*316.51*	
33 01 30 51-0069	EA	17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,526.09	
		For Stainless Steel Nuts And Bolts, Add	*429.70*	
33 01 30 51-0070	EA	17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,251.84	
		For Stainless Steel Nuts And Bolts, Add	*649.79*	
33 01 30 51-0071	EA	17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	819.09	
		For Stainless Steel Nuts And Bolts, Add	*223.59*	
33 01 30 51-0072	EA	17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,157.37	
		For Stainless Steel Nuts And Bolts, Add	*322.10*	
33 01 30 51-0073	EA	17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,557.87	
		For Stainless Steel Nuts And Bolts, Add	*436.69*	
33 01 30 51-0074	EA	17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,282.15	
		For Stainless Steel Nuts And Bolts, Add	*655.03*	
33 01 30 51-0075	EA	18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	838.42	
		For Stainless Steel Nuts And Bolts, Add	*227.94*	
33 01 30 51-0076	EA	18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,186.78	
		For Stainless Steel Nuts And Bolts, Add	*329.09*	
33 01 30 51-0077	EA	18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,591.64	
		For Stainless Steel Nuts And Bolts, Add	*444.37*	
33 01 30 51-0078	EA	18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,350.65	
		For Stainless Steel Nuts And Bolts, Add	*673.55*	

33 01 30 51-0079 Polyseal Pipe Coupler *(33 01 30 51-0001)*

33 01 30 51-0080	EA	18" Diameter Pipe, PolySeal Repair Couplers (MarMac)	270.49	
33 01 30 51-0081	EA	24" Diameter Pipe, PolySeal Repair Couplers (MarMac)	305.73	

33 01 30 71 Relining Sewer Utilities Pipelines *(33 01 30)*

33 01 30 71-0001 Relining Underground Pipelines *(33 01 30 71)*

Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 71-0002 Lining Pipe, Spray Applied With Structural Polyurethane *(33 01 30 71-0001)*

Note: Two part structural polyurethane.

33 01 30 71-0003 Mobilization And Setup For Spray Applied Structural Polyurethane Lining *(33 01 30 71-0002)*

33 01 30 71-0004	EA	Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining	1,716.86	

33 01 30 71-0005 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane *(33 01 30 71-0002)*

Note: Two part structural polyurethane.

33 01 30 71-0006	LF	36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	43.57	
		For Up To 75, Add	*9.64*	
		For >75 To 150, Add	*4.36*	
		For >500 To 1,000, Deduct	*-1.24*	
		For >1,000 To 2,000, Deduct	*-2.39*	
		For >2,000 To 5,000, Deduct	*-3.72*	
		For >5,000, Deduct	*-5.28*	
33 01 30 71-0007	LF	42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	50.84	
		For Up To 75, Add	*11.25*	
		For >75 To 150, Add	*5.08*	
		For >500 To 1,000, Deduct	*-1.45*	
		For >1,000 To 2,000, Deduct	*-2.79*	
		For >2,000 To 5,000, Deduct	*-4.35*	
		For >5,000, Deduct	*-6.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0008	LF	48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	58.11	
		For Up To 75, Add	*12.86*	
		For >75 To 150, Add	*5.81*	
		For >500 To 1,000, Deduct	*-1.66*	
		For >1,000 To 2,000, Deduct	*-3.19*	
		For >2,000 To 5,000, Deduct	*-4.97*	
		For >5,000, Deduct	*-7.05*	
33 01 30 71-0009	LF	54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	65.37	
		For Up To 75, Add	*14.46*	
		For >75 To 150, Add	*6.54*	
		For >500 To 1,000, Deduct	*-1.86*	
		For >1,000 To 2,000, Deduct	*-3.59*	
		For >2,000 To 5,000, Deduct	*-5.59*	
		For >5,000, Deduct	*-7.93*	
33 01 30 71-0010	LF	60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	72.63	
		For Up To 75, Add	*16.07*	
		For >75 To 150, Add	*7.26*	
		For >500 To 1,000, Deduct	*-2.07*	
		For >1,000 To 2,000, Deduct	*-3.99*	
		For >2,000 To 5,000, Deduct	*-6.21*	
		For >5,000, Deduct	*-8.81*	
33 01 30 71-0011	LF	66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	79.89	
		For Up To 75, Add	*17.68*	
		For >75 To 150, Add	*7.99*	
		For >500 To 1,000, Deduct	*-2.28*	
		For >1,000 To 2,000, Deduct	*-4.38*	
		For >2,000 To 5,000, Deduct	*-6.83*	
		For >5,000, Deduct	*-9.69*	
33 01 30 71-0012	LF	72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	87.16	
		For Up To 75, Add	*19.28*	
		For >75 To 150, Add	*8.72*	
		For >500 To 1,000, Deduct	*-2.48*	
		For >1,000 To 2,000, Deduct	*-4.78*	
		For >2,000 To 5,000, Deduct	*-7.45*	
		For >5,000, Deduct	*-10.57*	
33 01 30 71-0013	LF	78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	94.42	
		For Up To 75, Add	*20.89*	
		For >75 To 150, Add	*9.44*	
		For >500 To 1,000, Deduct	*-2.69*	
		For >1,000 To 2,000, Deduct	*-5.18*	
		For >2,000 To 5,000, Deduct	*-8.07*	
		For >5,000, Deduct	*-11.45*	
33 01 30 71-0014	LF	84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	101.68	
		For Up To 75, Add	*22.50*	
		For >75 To 150, Add	*10.17*	
		For >500 To 1,000, Deduct	*-2.90*	
		For >1,000 To 2,000, Deduct	*-5.58*	
		For >2,000 To 5,000, Deduct	*-8.69*	
		For >5,000, Deduct	*-12.33*	
33 01 30 71-0015	LF	90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	108.94	
		For Up To 75, Add	*24.10*	
		For >75 To 150, Add	*10.89*	
		For >500 To 1,000, Deduct	*-3.10*	
		For >1,000 To 2,000, Deduct	*-5.98*	
		For >2,000 To 5,000, Deduct	*-9.31*	
		For >5,000, Deduct	*-13.21*	
33 01 30 71-0016	LF	96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	116.21	
		For Up To 75, Add	*25.71*	
		For >75 To 150, Add	*11.62*	
		For >500 To 1,000, Deduct	*-3.31*	
		For >1,000 To 2,000, Deduct	*-6.38*	
		For >2,000 To 5,000, Deduct	*-9.94*	
		For >5,000, Deduct	*-14.09*	
33 01 30 71-0017	LF	102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	123.47	
		For Up To 75, Add	*27.32*	
		For >75 To 150, Add	*12.35*	
		For >500 To 1,000, Deduct	*-3.52*	
		For >1,000 To 2,000, Deduct	*-6.78*	
		For >2,000 To 5,000, Deduct	*-10.56*	
		For >5,000, Deduct	*-14.97*	
33 01 30 71-0018	LF	108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	130.72	
		For Up To 75, Add	*28.92*	
		For >75 To 150, Add	*13.07*	
		For >500 To 1,000, Deduct	*-3.73*	
		For >1,000 To 2,000, Deduct	*-7.17*	
		For >2,000 To 5,000, Deduct	*-11.18*	
		For >5,000, Deduct	*-15.85*	
33 01 30 71-0019	LF	114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	138.00	
		For Up To 75, Add	*30.53*	
		For >75 To 150, Add	*13.80*	
		For >500 To 1,000, Deduct	*-3.93*	
		For >1,000 To 2,000, Deduct	*-7.57*	
		For >2,000 To 5,000, Deduct	*-11.80*	
		For >5,000, Deduct	*-16.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0020	LF	120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	145.26	
		For Up To 75, Add	*32.14*	
		For >75 To 150, Add	*14.53*	
		For >500 To 1,000, Deduct	*-4.14*	
		For >1,000 To 2,000, Deduct	*-7.97*	
		For >2,000 To 5,000, Deduct	*-12.42*	
		For >5,000, Deduct	*-17.61*	
33 01 30 71-0021	SF	Structure Lining, Spray Applied With 100 mil Structural Polyurethane	4.63	

33 01 30 71-0022 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane *(33 01 30 71-0002)*

Note: Two part structural polyurethane.

33 01 30 71-0023	LF	36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	57.10	
		For Up To 75, Add	*12.39*	
		For >75 To 150, Add	*5.71*	
		For >500 To 1,000, Deduct	*-1.53*	
		For >1,000 To 2,000, Deduct	*-2.97*	
		For >2,000 To 5,000, Deduct	*-4.60*	
		For >5,000, Deduct	*-6.68*	
33 01 30 71-0024	LF	42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	66.62	
		For Up To 75, Add	*14.46*	
		For >75 To 150, Add	*6.66*	
		For >500 To 1,000, Deduct	*-1.79*	
		For >1,000 To 2,000, Deduct	*-3.46*	
		For >2,000 To 5,000, Deduct	*-5.36*	
		For >5,000, Deduct	*-7.80*	
33 01 30 71-0025	LF	48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	76.14	
		For Up To 75, Add	*16.53*	
		For >75 To 150, Add	*7.61*	
		For >500 To 1,000, Deduct	*-2.04*	
		For >1,000 To 2,000, Deduct	*-3.96*	
		For >2,000 To 5,000, Deduct	*-6.13*	
		For >5,000, Deduct	*-8.91*	
33 01 30 71-0026	LF	54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	85.65	
		For Up To 75, Add	*18.59*	
		For >75 To 150, Add	*8.57*	
		For >500 To 1,000, Deduct	*-2.30*	
		For >1,000 To 2,000, Deduct	*-4.45*	
		For >2,000 To 5,000, Deduct	*-6.89*	
		For >5,000, Deduct	*-10.03*	
33 01 30 71-0027	LF	60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	95.17	
		For Up To 75, Add	*20.66*	
		For >75 To 150, Add	*9.52*	
		For >500 To 1,000, Deduct	*-2.55*	
		For >1,000 To 2,000, Deduct	*-4.94*	
		For >2,000 To 5,000, Deduct	*-7.66*	
		For >5,000, Deduct	*-11.14*	
33 01 30 71-0028	LF	66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	104.69	
		For Up To 75, Add	*22.73*	
		For >75 To 150, Add	*10.47*	
		For >500 To 1,000, Deduct	*-2.81*	
		For >1,000 To 2,000, Deduct	*-5.44*	
		For >2,000 To 5,000, Deduct	*-8.43*	
		For >5,000, Deduct	*-12.26*	
33 01 30 71-0029	LF	72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	114.21	
		For Up To 75, Add	*24.79*	
		For >75 To 150, Add	*11.42*	
		For >500 To 1,000, Deduct	*-3.06*	
		For >1,000 To 2,000, Deduct	*-5.93*	
		For >2,000 To 5,000, Deduct	*-9.19*	
		For >5,000, Deduct	*-13.37*	
33 01 30 71-0030	LF	78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	123.72	
		For Up To 75, Add	*26.86*	
		For >75 To 150, Add	*12.37*	
		For >500 To 1,000, Deduct	*-3.32*	
		For >1,000 To 2,000, Deduct	*-6.43*	
		For >2,000 To 5,000, Deduct	*-9.96*	
		For >5,000, Deduct	*-14.48*	
33 01 30 71-0031	LF	84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	133.24	
		For Up To 75, Add	*28.92*	
		For >75 To 150, Add	*13.32*	
		For >500 To 1,000, Deduct	*-3.57*	
		For >1,000 To 2,000, Deduct	*-6.92*	
		For >2,000 To 5,000, Deduct	*-10.72*	
		For >5,000, Deduct	*-15.60*	
33 01 30 71-0032	LF	90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	142.76	
		For Up To 75, Add	*30.99*	
		For >75 To 150, Add	*14.28*	
		For >500 To 1,000, Deduct	*-3.83*	
		For >1,000 To 2,000, Deduct	*-7.42*	
		For >2,000 To 5,000, Deduct	*-11.49*	
		For >5,000, Deduct	*-16.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0033	LF	96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	152.29	
		For Up To 75, Add	*33.06*	
		For >75 To 150, Add	*15.23*	
		For >500 To 1,000, Deduct	*-4.09*	
		For >1,000 To 2,000, Deduct	*-7.91*	
		For >2,000 To 5,000, Deduct	*-12.26*	
		For >5,000, Deduct	*-17.83*	
33 01 30 71-0034	LF	102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	161.79	
		For Up To 75, Add	*35.12*	
		For >75 To 150, Add	*16.18*	
		For >500 To 1,000, Deduct	*-4.34*	
		For >1,000 To 2,000, Deduct	*-8.40*	
		For >2,000 To 5,000, Deduct	*-13.02*	
		For >5,000, Deduct	*-18.94*	
33 01 30 71-0035	LF	108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	171.31	
		For Up To 75, Add	*37.19*	
		For >75 To 150, Add	*17.13*	
		For >500 To 1,000, Deduct	*-4.60*	
		For >1,000 To 2,000, Deduct	*-8.90*	
		For >2,000 To 5,000, Deduct	*-13.79*	
		For >5,000, Deduct	*-20.06*	
33 01 30 71-0036	LF	114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	180.83	
		For Up To 75, Add	*39.25*	
		For >75 To 150, Add	*18.08*	
		For >500 To 1,000, Deduct	*-4.85*	
		For >1,000 To 2,000, Deduct	*-9.39*	
		For >2,000 To 5,000, Deduct	*-14.55*	
		For >5,000, Deduct	*-21.17*	
33 01 30 71-0037	LF	120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	190.35	
		For Up To 75, Add	*41.32*	
		For >75 To 150, Add	*19.04*	
		For >500 To 1,000, Deduct	*-5.11*	
		For >1,000 To 2,000, Deduct	*-9.89*	
		For >2,000 To 5,000, Deduct	*-15.32*	
		For >5,000, Deduct	*-22.28*	
33 01 30 71-0038	SF	Structure Lining, Spray Applied With 150 mil Structural Polyurethane	6.06	

33 01 30 71-0039 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane *(33 01 30 71-0002)*

Note: Two part structural polyurethane.

33 01 30 71-0040	LF	36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	70.64	
		For Up To 75, Add	*15.15*	
		For >75 To 150, Add	*7.06*	
		For >500 To 1,000, Deduct	*-1.82*	
		For >1,000 To 2,000, Deduct	*-3.54*	
		For >2,000 To 5,000, Deduct	*-5.47*	
		For >5,000, Deduct	*-8.09*	
33 01 30 71-0041	LF	42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	82.41	
		For Up To 75, Add	*17.68*	
		For >75 To 150, Add	*8.24*	
		For >500 To 1,000, Deduct	*-2.13*	
		For >1,000 To 2,000, Deduct	*-4.13*	
		For >2,000 To 5,000, Deduct	*-6.38*	
		For >5,000, Deduct	*-9.44*	
33 01 30 71-0042	LF	48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	94.18	
		For Up To 75, Add	*20.20*	
		For >75 To 150, Add	*9.42*	
		For >500 To 1,000, Deduct	*-2.43*	
		For >1,000 To 2,000, Deduct	*-4.72*	
		For >2,000 To 5,000, Deduct	*-7.29*	
		For >5,000, Deduct	*-10.79*	
33 01 30 71-0043	LF	54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	105.95	
		For Up To 75, Add	*22.73*	
		For >75 To 150, Add	*10.60*	
		For >500 To 1,000, Deduct	*-2.73*	
		For >1,000 To 2,000, Deduct	*-5.32*	
		For >2,000 To 5,000, Deduct	*-8.20*	
		For >5,000, Deduct	*-12.13*	
33 01 30 71-0044	LF	60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	117.73	
		For Up To 75, Add	*25.26*	
		For >75 To 150, Add	*11.77*	
		For >500 To 1,000, Deduct	*-3.04*	
		For >1,000 To 2,000, Deduct	*-5.91*	
		For >2,000 To 5,000, Deduct	*-9.12*	
		For >5,000, Deduct	*-13.48*	
33 01 30 71-0045	LF	66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	129.49	
		For Up To 75, Add	*27.78*	
		For >75 To 150, Add	*12.95*	
		For >500 To 1,000, Deduct	*-3.34*	
		For >1,000 To 2,000, Deduct	*-6.50*	
		For >2,000 To 5,000, Deduct	*-10.03*	
		For >5,000, Deduct	*-14.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0046	LF	72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	141.27	
		For Up To 75, Add	*30.31*	
		For >75 To 150, Add	*14.13*	
		For >500 To 1,000, Deduct	*-3.65*	
		For >1,000 To 2,000, Deduct	*-7.09*	
		For >2,000 To 5,000, Deduct	*-10.94*	
		For >5,000, Deduct	*-16.18*	
33 01 30 71-0047	LF	78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	153.05	
		For Up To 75, Add	*32.83*	
		For >75 To 150, Add	*15.31*	
		For >500 To 1,000, Deduct	*-3.95*	
		For >1,000 To 2,000, Deduct	*-7.68*	
		For >2,000 To 5,000, Deduct	*-11.85*	
		For >5,000, Deduct	*-17.53*	
33 01 30 71-0048	LF	84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	164.82	
		For Up To 75, Add	*35.36*	
		For >75 To 150, Add	*16.48*	
		For >500 To 1,000, Deduct	*-4.25*	
		For >1,000 To 2,000, Deduct	*-8.27*	
		For >2,000 To 5,000, Deduct	*-12.76*	
		For >5,000, Deduct	*-18.88*	
33 01 30 71-0049	LF	90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	176.59	
		For Up To 75, Add	*37.88*	
		For >75 To 150, Add	*17.66*	
		For >500 To 1,000, Deduct	*-4.56*	
		For >1,000 To 2,000, Deduct	*-8.86*	
		For >2,000 To 5,000, Deduct	*-13.67*	
		For >5,000, Deduct	*-20.22*	
33 01 30 71-0050	LF	96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	188.36	
		For Up To 75, Add	*40.41*	
		For >75 To 150, Add	*18.84*	
		For >500 To 1,000, Deduct	*-4.86*	
		For >1,000 To 2,000, Deduct	*-9.45*	
		For >2,000 To 5,000, Deduct	*-14.58*	
		For >5,000, Deduct	*-21.57*	
33 01 30 71-0051	LF	102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	200.14	
		For Up To 75, Add	*42.94*	
		For >75 To 150, Add	*20.01*	
		For >500 To 1,000, Deduct	*-5.17*	
		For >1,000 To 2,000, Deduct	*-10.04*	
		For >2,000 To 5,000, Deduct	*-15.50*	
		For >5,000, Deduct	*-22.92*	
33 01 30 71-0052	LF	108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	211.90	
		For Up To 75, Add	*45.46*	
		For >75 To 150, Add	*21.19*	
		For >500 To 1,000, Deduct	*-5.47*	
		For >1,000 To 2,000, Deduct	*-10.63*	
		For >2,000 To 5,000, Deduct	*-16.41*	
		For >5,000, Deduct	*-24.27*	
33 01 30 71-0053	LF	114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	223.68	
		For Up To 75, Add	*47.99*	
		For >75 To 150, Add	*22.37*	
		For >500 To 1,000, Deduct	*-5.77*	
		For >1,000 To 2,000, Deduct	*-11.22*	
		For >2,000 To 5,000, Deduct	*-17.32*	
		For >5,000, Deduct	*-25.62*	
33 01 30 71-0054	LF	120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	235.46	
		For Up To 75, Add	*50.51*	
		For >75 To 150, Add	*23.55*	
		For >500 To 1,000, Deduct	*-6.08*	
		For >1,000 To 2,000, Deduct	*-11.81*	
		For >2,000 To 5,000, Deduct	*-18.23*	
		For >5,000, Deduct	*-26.97*	
33 01 30 71-0055	SF	Structure Lining, Spray Applied With 200 mil Structural Polyurethane	7.50	

33 01 30 71-0056 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane *(33 01 30 71-0002)*

Note: Two part structural polyurethane.

33 01 30 71-0057	LF	36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	84.24	
		For Up To 75, Add	*17.93*	
		For >75 To 150, Add	*8.42*	
		For >500 To 1,000, Deduct	*-2.12*	
		For >1,000 To 2,000, Deduct	*-4.13*	
		For >2,000 To 5,000, Deduct	*-6.35*	
		For >5,000, Deduct	*-9.50*	
33 01 30 71-0058	LF	42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	98.29	
		For Up To 75, Add	*20.92*	
		For >75 To 150, Add	*9.83*	
		For >500 To 1,000, Deduct	*-2.47*	
		For >1,000 To 2,000, Deduct	*-4.81*	
		For >2,000 To 5,000, Deduct	*-7.41*	
		For >5,000, Deduct	*-11.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0059	LF	48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	112.33	
		For Up To 75, Add	*23.91*	
		For >75 To 150, Add	*11.23*	
		For >500 To 1,000, Deduct	*-2.82*	
		For >1,000 To 2,000, Deduct	*-5.50*	
		For >2,000 To 5,000, Deduct	*-8.47*	
		For >5,000, Deduct	*-12.67*	
33 01 30 71-0060	LF	54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	126.36	
		For Up To 75, Add	*26.89*	
		For >75 To 150, Add	*12.64*	
		For >500 To 1,000, Deduct	*-3.18*	
		For >1,000 To 2,000, Deduct	*-6.19*	
		For >2,000 To 5,000, Deduct	*-9.53*	
		For >5,000, Deduct	*-14.26*	
33 01 30 71-0061	LF	60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	140.41	
		For Up To 75, Add	*29.88*	
		For >75 To 150, Add	*14.04*	
		For >500 To 1,000, Deduct	*-3.53*	
		For >1,000 To 2,000, Deduct	*-6.88*	
		For >2,000 To 5,000, Deduct	*-10.58*	
		For >5,000, Deduct	*-15.84*	
33 01 30 71-0062	LF	66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	154.45	
		For Up To 75, Add	*32.87*	
		For >75 To 150, Add	*15.45*	
		For >500 To 1,000, Deduct	*-3.88*	
		For >1,000 To 2,000, Deduct	*-7.56*	
		For >2,000 To 5,000, Deduct	*-11.64*	
		For >5,000, Deduct	*-17.43*	
33 01 30 71-0063	LF	72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	168.49	
		For Up To 75, Add	*35.86*	
		For >75 To 150, Add	*16.85*	
		For >500 To 1,000, Deduct	*-4.23*	
		For >1,000 To 2,000, Deduct	*-8.25*	
		For >2,000 To 5,000, Deduct	*-12.70*	
		For >5,000, Deduct	*-19.01*	
33 01 30 71-0064	LF	78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	182.53	
		For Up To 75, Add	*38.85*	
		For >75 To 150, Add	*18.25*	
		For >500 To 1,000, Deduct	*-4.59*	
		For >1,000 To 2,000, Deduct	*-8.94*	
		For >2,000 To 5,000, Deduct	*-13.76*	
		For >5,000, Deduct	*-20.59*	
33 01 30 71-0065	LF	84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	196.57	
		For Up To 75, Add	*41.83*	
		For >75 To 150, Add	*19.66*	
		For >500 To 1,000, Deduct	*-4.94*	
		For >1,000 To 2,000, Deduct	*-9.63*	
		For >2,000 To 5,000, Deduct	*-14.82*	
		For >5,000, Deduct	*-22.18*	
33 01 30 71-0066	LF	90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	210.62	
		For Up To 75, Add	*44.82*	
		For >75 To 150, Add	*21.06*	
		For >500 To 1,000, Deduct	*-5.29*	
		For >1,000 To 2,000, Deduct	*-10.32*	
		For >2,000 To 5,000, Deduct	*-15.88*	
		For >5,000, Deduct	*-23.76*	
33 01 30 71-0067	LF	96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	224.66	
		For Up To 75, Add	*47.81*	
		For >75 To 150, Add	*22.47*	
		For >500 To 1,000, Deduct	*-5.65*	
		For >1,000 To 2,000, Deduct	*-11.00*	
		For >2,000 To 5,000, Deduct	*-16.94*	
		For >5,000, Deduct	*-25.35*	
33 01 30 71-0068	LF	102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	238.70	
		For Up To 75, Add	*50.80*	
		For >75 To 150, Add	*23.87*	
		For >500 To 1,000, Deduct	*-6.00*	
		For >1,000 To 2,000, Deduct	*-11.69*	
		For >2,000 To 5,000, Deduct	*-17.99*	
		For >5,000, Deduct	*-26.93*	
33 01 30 71-0069	LF	108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	252.74	
		For Up To 75, Add	*53.79*	
		For >75 To 150, Add	*25.27*	
		For >500 To 1,000, Deduct	*-6.35*	
		For >1,000 To 2,000, Deduct	*-12.38*	
		For >2,000 To 5,000, Deduct	*-19.05*	
		For >5,000, Deduct	*-28.51*	
33 01 30 71-0070	LF	114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	266.78	
		For Up To 75, Add	*56.78*	
		For >75 To 150, Add	*26.68*	
		For >500 To 1,000, Deduct	*-6.70*	
		For >1,000 To 2,000, Deduct	*-13.07*	
		For >2,000 To 5,000, Deduct	*-20.11*	
		For >5,000, Deduct	*-30.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0071	LF	120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	280.82	
		For Up To 75, Add	*59.76*	
		For >75 To 150, Add	*28.08*	
		For >500 To 1,000, Deduct	*-7.06*	
		For >1,000 To 2,000, Deduct	*-13.75*	
		For >2,000 To 5,000, Deduct	*-21.17*	
		For >5,000, Deduct	*-31.68*	
33 01 30 71-0072	SF	Structure Lining, Spray Applied With 250 mil Structural Polyurethane	8.94	

33 01 30 71-0073 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane *(33 01 30 71-0002)*

Note: Two part structural polyurethane.

33 01 30 71-0074	LF	36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	97.96	
		For Up To 75, Add	*20.73*	
		For >75 To 150, Add	*9.80*	
		For >500 To 1,000, Deduct	*-2.41*	
		For >1,000 To 2,000, Deduct	*-4.71*	
		For >2,000 To 5,000, Deduct	*-7.24*	
		For >5,000, Deduct	*-10.93*	
33 01 30 71-0075	LF	42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	114.29	
		For Up To 75, Add	*24.18*	
		For >75 To 150, Add	*11.43*	
		For >500 To 1,000, Deduct	*-2.82*	
		For >1,000 To 2,000, Deduct	*-5.50*	
		For >2,000 To 5,000, Deduct	*-8.45*	
		For >5,000, Deduct	*-12.76*	
33 01 30 71-0076	LF	48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	130.62	
		For Up To 75, Add	*27.64*	
		For >75 To 150, Add	*13.06*	
		For >500 To 1,000, Deduct	*-3.22*	
		For >1,000 To 2,000, Deduct	*-6.29*	
		For >2,000 To 5,000, Deduct	*-9.66*	
		For >5,000, Deduct	*-14.58*	
33 01 30 71-0077	LF	54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	146.94	
		For Up To 75, Add	*31.09*	
		For >75 To 150, Add	*14.69*	
		For >500 To 1,000, Deduct	*-3.62*	
		For >1,000 To 2,000, Deduct	*-7.07*	
		For >2,000 To 5,000, Deduct	*-10.86*	
		For >5,000, Deduct	*-16.40*	
33 01 30 71-0078	LF	60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	163.27	
		For Up To 75, Add	*34.55*	
		For >75 To 150, Add	*16.33*	
		For >500 To 1,000, Deduct	*-4.02*	
		For >1,000 To 2,000, Deduct	*-7.86*	
		For >2,000 To 5,000, Deduct	*-12.07*	
		For >5,000, Deduct	*-18.22*	
33 01 30 71-0079	LF	66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	179.59	
		For Up To 75, Add	*38.00*	
		For >75 To 150, Add	*17.96*	
		For >500 To 1,000, Deduct	*-4.43*	
		For >1,000 To 2,000, Deduct	*-8.64*	
		For >2,000 To 5,000, Deduct	*-13.28*	
		For >5,000, Deduct	*-20.04*	
33 01 30 71-0080	LF	72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	195.91	
		For Up To 75, Add	*41.46*	
		For >75 To 150, Add	*19.59*	
		For >500 To 1,000, Deduct	*-4.83*	
		For >1,000 To 2,000, Deduct	*-9.43*	
		For >2,000 To 5,000, Deduct	*-14.48*	
		For >5,000, Deduct	*-21.86*	
33 01 30 71-0081	LF	78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	212.24	
		For Up To 75, Add	*44.91*	
		For >75 To 150, Add	*21.22*	
		For >500 To 1,000, Deduct	*-5.23*	
		For >1,000 To 2,000, Deduct	*-10.21*	
		For >2,000 To 5,000, Deduct	*-15.69*	
		For >5,000, Deduct	*-23.69*	
33 01 30 71-0082	LF	84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	228.57	
		For Up To 75, Add	*48.37*	
		For >75 To 150, Add	*22.86*	
		For >500 To 1,000, Deduct	*-5.63*	
		For >1,000 To 2,000, Deduct	*-11.00*	
		For >2,000 To 5,000, Deduct	*-16.90*	
		For >5,000, Deduct	*-25.51*	
33 01 30 71-0083	LF	90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	244.90	
		For Up To 75, Add	*51.82*	
		For >75 To 150, Add	*24.49*	
		For >500 To 1,000, Deduct	*-6.04*	
		For >1,000 To 2,000, Deduct	*-11.79*	
		For >2,000 To 5,000, Deduct	*-18.11*	
		For >5,000, Deduct	*-27.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0084	LF	96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	261.22	
		For Up To 75, Add	*55.28*	
		For >75 To 150, Add	*26.12*	
		For >500 To 1,000, Deduct	*-6.44*	
		For >1,000 To 2,000, Deduct	*-12.57*	
		For >2,000 To 5,000, Deduct	*-19.31*	
		For >5,000, Deduct	*-29.15*	
33 01 30 71-0085	LF	102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	277.56	
		For Up To 75, Add	*58.73*	
		For >75 To 150, Add	*27.76*	
		For >500 To 1,000, Deduct	*-6.84*	
		For >1,000 To 2,000, Deduct	*-13.36*	
		For >2,000 To 5,000, Deduct	*-20.52*	
		For >5,000, Deduct	*-30.98*	
33 01 30 71-0086	LF	108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	293.88	
		For Up To 75, Add	*62.19*	
		For >75 To 150, Add	*29.39*	
		For >500 To 1,000, Deduct	*-7.24*	
		For >1,000 To 2,000, Deduct	*-14.14*	
		For >2,000 To 5,000, Deduct	*-21.73*	
		For >5,000, Deduct	*-32.80*	
33 01 30 71-0087	LF	114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	310.20	
		For Up To 75, Add	*65.64*	
		For >75 To 150, Add	*31.02*	
		For >500 To 1,000, Deduct	*-7.64*	
		For >1,000 To 2,000, Deduct	*-14.93*	
		For >2,000 To 5,000, Deduct	*-22.93*	
		For >5,000, Deduct	*-34.62*	
33 01 30 71-0088	LF	120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	326.53	
		For Up To 75, Add	*69.10*	
		For >75 To 150, Add	*32.65*	
		For >500 To 1,000, Deduct	*-8.05*	
		For >1,000 To 2,000, Deduct	*-15.71*	
		For >2,000 To 5,000, Deduct	*-24.14*	
		For >5,000, Deduct	*-36.44*	
33 01 30 71-0089	SF	Structure Lining, Spray Applied With 300 mil Structural Polyurethane	10.39	

33 01 30 71-0090 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane *(33 01 30 71-0002)*

Note: Two part structural polyurethane.

33 01 30 71-0091	LF	36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	125.50	
		For Up To 75, Add	*26.36*	
		For >75 To 150, Add	*12.55*	
		For >500 To 1,000, Deduct	*-3.02*	
		For >1,000 To 2,000, Deduct	*-5.90*	
		For >2,000 To 5,000, Deduct	*-9.05*	
		For >5,000, Deduct	*-13.81*	
33 01 30 71-0092	LF	42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	146.42	
		For Up To 75, Add	*30.76*	
		For >75 To 150, Add	*14.64*	
		For >500 To 1,000, Deduct	*-3.52*	
		For >1,000 To 2,000, Deduct	*-6.89*	
		For >2,000 To 5,000, Deduct	*-10.55*	
		For >5,000, Deduct	*-16.12*	
33 01 30 71-0093	LF	48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	167.33	
		For Up To 75, Add	*35.15*	
		For >75 To 150, Add	*16.73*	
		For >500 To 1,000, Deduct	*-4.02*	
		For >1,000 To 2,000, Deduct	*-7.87*	
		For >2,000 To 5,000, Deduct	*-12.06*	
		For >5,000, Deduct	*-18.42*	
33 01 30 71-0094	LF	54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	188.25	
		For Up To 75, Add	*39.55*	
		For >75 To 150, Add	*18.83*	
		For >500 To 1,000, Deduct	*-4.52*	
		For >1,000 To 2,000, Deduct	*-8.86*	
		For >2,000 To 5,000, Deduct	*-13.57*	
		For >5,000, Deduct	*-20.72*	
33 01 30 71-0095	LF	60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	209.17	
		For Up To 75, Add	*43.94*	
		For >75 To 150, Add	*20.92*	
		For >500 To 1,000, Deduct	*-5.03*	
		For >1,000 To 2,000, Deduct	*-9.84*	
		For >2,000 To 5,000, Deduct	*-15.08*	
		For >5,000, Deduct	*-23.02*	
33 01 30 71-0096	LF	66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	230.08	
		For Up To 75, Add	*48.33*	
		For >75 To 150, Add	*23.01*	
		For >500 To 1,000, Deduct	*-5.53*	
		For >1,000 To 2,000, Deduct	*-10.82*	
		For >2,000 To 5,000, Deduct	*-16.58*	
		For >5,000, Deduct	*-25.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0097	LF	72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	250.99	
		For Up To 75, Add	*52.72*	
		For >75 To 150, Add	*25.10*	
		For >500 To 1,000, Deduct	*-6.03*	
		For >1,000 To 2,000, Deduct	*-11.81*	
		For >2,000 To 5,000, Deduct	*-18.09*	
		For >5,000, Deduct	*-27.63*	
33 01 30 71-0098	LF	78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	271.91	
		For Up To 75, Add	*57.12*	
		For >75 To 150, Add	*27.19*	
		For >500 To 1,000, Deduct	*-6.53*	
		For >1,000 To 2,000, Deduct	*-12.79*	
		For >2,000 To 5,000, Deduct	*-19.60*	
		For >5,000, Deduct	*-29.93*	
33 01 30 71-0099	LF	84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	292.83	
		For Up To 75, Add	*61.51*	
		For >75 To 150, Add	*29.28*	
		For >500 To 1,000, Deduct	*-7.04*	
		For >1,000 To 2,000, Deduct	*-13.78*	
		For >2,000 To 5,000, Deduct	*-21.11*	
		For >5,000, Deduct	*-32.23*	
33 01 30 71-0100	LF	90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	313.74	
		For Up To 75, Add	*65.91*	
		For >75 To 150, Add	*31.37*	
		For >500 To 1,000, Deduct	*-7.54*	
		For >1,000 To 2,000, Deduct	*-14.76*	
		For >2,000 To 5,000, Deduct	*-22.61*	
		For >5,000, Deduct	*-34.53*	
33 01 30 71-0101	LF	96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	334.66	
		For Up To 75, Add	*70.30*	
		For >75 To 150, Add	*33.47*	
		For >500 To 1,000, Deduct	*-8.04*	
		For >1,000 To 2,000, Deduct	*-15.74*	
		For >2,000 To 5,000, Deduct	*-24.12*	
		For >5,000, Deduct	*-36.83*	
33 01 30 71-0102	LF	102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	355.57	
		For Up To 75, Add	*74.69*	
		For >75 To 150, Add	*35.56*	
		For >500 To 1,000, Deduct	*-8.54*	
		For >1,000 To 2,000, Deduct	*-16.73*	
		For >2,000 To 5,000, Deduct	*-25.63*	
		For >5,000, Deduct	*-39.14*	
33 01 30 71-0103	LF	108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	376.49	
		For Up To 75, Add	*79.09*	
		For >75 To 150, Add	*37.65*	
		For >500 To 1,000, Deduct	*-9.05*	
		For >1,000 To 2,000, Deduct	*-17.71*	
		For >2,000 To 5,000, Deduct	*-27.14*	
		For >5,000, Deduct	*-41.44*	
33 01 30 71-0104	LF	114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	397.40	
		For Up To 75, Add	*83.48*	
		For >75 To 150, Add	*39.74*	
		For >500 To 1,000, Deduct	*-9.55*	
		For >1,000 To 2,000, Deduct	*-18.70*	
		For >2,000 To 5,000, Deduct	*-28.64*	
		For >5,000, Deduct	*-43.74*	
33 01 30 71-0105	LF	120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	418.32	
		For Up To 75, Add	*87.87*	
		For >75 To 150, Add	*41.83*	
		For >500 To 1,000, Deduct	*-10.05*	
		For >1,000 To 2,000, Deduct	*-19.68*	
		For >2,000 To 5,000, Deduct	*-30.15*	
		For >5,000, Deduct	*-46.04*	
33 01 30 71-0106	SF	Structure Lining, Spray Applied With 400 mil Structural Polyurethane	13.31	

33 01 30 71-0107 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane *(33 01 30 71-0002)*

Note: Two part structural polyurethane.

33 01 30 71-0108	LF	36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	153.36	
		For Up To 75, Add	*32.08*	
		For >75 To 150, Add	*15.34*	
		For >500 To 1,000, Deduct	*-3.63*	
		For >1,000 To 2,000, Deduct	*-7.12*	
		For >2,000 To 5,000, Deduct	*-10.89*	
		For >5,000, Deduct	*-16.74*	
33 01 30 71-0109	LF	42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	178.92	
		For Up To 75, Add	*37.42*	
		For >75 To 150, Add	*17.89*	
		For >500 To 1,000, Deduct	*-4.23*	
		For >1,000 To 2,000, Deduct	*-8.30*	
		For >2,000 To 5,000, Deduct	*-12.70*	
		For >5,000, Deduct	*-19.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0110	LF	48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	204.49	
		For Up To 75, Add	*42.77*	
		For >75 To 150, Add	*20.45*	
		For >500 To 1,000, Deduct	*-4.84*	
		For >1,000 To 2,000, Deduct	*-9.49*	
		For >2,000 To 5,000, Deduct	*-14.52*	
		For >5,000, Deduct	*-22.32*	
33 01 30 71-0111	LF	54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	230.05	
		For Up To 75, Add	*48.12*	
		For >75 To 150, Add	*23.01*	
		For >500 To 1,000, Deduct	*-5.44*	
		For >1,000 To 2,000, Deduct	*-10.68*	
		For >2,000 To 5,000, Deduct	*-16.33*	
		For >5,000, Deduct	*-25.11*	
33 01 30 71-0112	LF	60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	255.61	
		For Up To 75, Add	*53.46*	
		For >75 To 150, Add	*25.56*	
		For >500 To 1,000, Deduct	*-6.05*	
		For >1,000 To 2,000, Deduct	*-11.86*	
		For >2,000 To 5,000, Deduct	*-18.14*	
		For >5,000, Deduct	*-27.90*	
33 01 30 71-0113	LF	66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	281.16	
		For Up To 75, Add	*58.81*	
		For >75 To 150, Add	*28.12*	
		For >500 To 1,000, Deduct	*-6.65*	
		For >1,000 To 2,000, Deduct	*-13.05*	
		For >2,000 To 5,000, Deduct	*-19.96*	
		For >5,000, Deduct	*-30.69*	
33 01 30 71-0114	LF	72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	306.72	
		For Up To 75, Add	*64.15*	
		For >75 To 150, Add	*30.67*	
		For >500 To 1,000, Deduct	*-7.26*	
		For >1,000 To 2,000, Deduct	*-14.23*	
		For >2,000 To 5,000, Deduct	*-21.77*	
		For >5,000, Deduct	*-33.48*	
33 01 30 71-0115	LF	78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	332.28	
		For Up To 75, Add	*69.50*	
		For >75 To 150, Add	*33.23*	
		For >500 To 1,000, Deduct	*-7.86*	
		For >1,000 To 2,000, Deduct	*-15.42*	
		For >2,000 To 5,000, Deduct	*-23.59*	
		For >5,000, Deduct	*-36.27*	
33 01 30 71-0116	LF	84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	357.85	
		For Up To 75, Add	*74.85*	
		For >75 To 150, Add	*35.79*	
		For >500 To 1,000, Deduct	*-8.47*	
		For >1,000 To 2,000, Deduct	*-16.61*	
		For >2,000 To 5,000, Deduct	*-25.40*	
		For >5,000, Deduct	*-39.06*	
33 01 30 71-0117	LF	90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	383.40	
		For Up To 75, Add	*80.19*	
		For >75 To 150, Add	*38.34*	
		For >500 To 1,000, Deduct	*-9.07*	
		For >1,000 To 2,000, Deduct	*-17.79*	
		For >2,000 To 5,000, Deduct	*-27.21*	
		For >5,000, Deduct	*-41.85*	
33 01 30 71-0118	LF	96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	408.96	
		For Up To 75, Add	*85.53*	
		For >75 To 150, Add	*40.90*	
		For >500 To 1,000, Deduct	*-9.68*	
		For >1,000 To 2,000, Deduct	*-18.98*	
		For >2,000 To 5,000, Deduct	*-29.03*	
		For >5,000, Deduct	*-44.64*	
33 01 30 71-0119	LF	102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	434.53	
		For Up To 75, Add	*90.88*	
		For >75 To 150, Add	*43.45*	
		For >500 To 1,000, Deduct	*-10.28*	
		For >1,000 To 2,000, Deduct	*-20.17*	
		For >2,000 To 5,000, Deduct	*-30.84*	
		For >5,000, Deduct	*-47.43*	
33 01 30 71-0120	LF	108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	460.08	
		For Up To 75, Add	*96.23*	
		For >75 To 150, Add	*46.01*	
		For >500 To 1,000, Deduct	*-10.89*	
		For >1,000 To 2,000, Deduct	*-21.35*	
		For >2,000 To 5,000, Deduct	*-32.66*	
		For >5,000, Deduct	*-50.22*	
33 01 30 71-0121	LF	114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	485.65	
		For Up To 75, Add	*101.57*	
		For >75 To 150, Add	*48.57*	
		For >500 To 1,000, Deduct	*-11.49*	
		For >1,000 To 2,000, Deduct	*-22.54*	
		For >2,000 To 5,000, Deduct	*-34.47*	
		For >5,000, Deduct	*-53.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0122	LF	120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	511.21	
		For Up To 75, Add	*106.92*	
		For >75 To 150, Add	*51.12*	
		For >500 To 1,000, Deduct	*-12.10*	
		For >1,000 To 2,000, Deduct	*-23.72*	
		For >2,000 To 5,000, Deduct	*-36.29*	
		For >5,000, Deduct	*-55.80*	
33 01 30 71-0123	SF	Structure Lining, Spray Applied With 500 mil Structural Polyurethane	16.27	

33 01 30 72 Cured-in-Place Pipe Lining *(33 01 30)*

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines *(33 01 30 72)*

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion *(33 01 30 72-0001)*

33 01 30 72-0003	EA	Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)	1,387.63
33 01 30 72-0004	EA	Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)	2,312.71
33 01 30 72-0005	EA	Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)	3,469.06
33 01 30 72-0006	EA	Initial Set Up And Final Equipment Removal For Relining Underground Pipelines Cured In-Place Pipe (CIPP)	4,625.43
33 01 30 72-0007	EA	Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)	693.81
33 01 30 72-0008	EA	Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)	1,156.35
33 01 30 72-0009	EA	Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)	1,445.44
33 01 30 72-0010	EA	Move And Reset Up At Different Access/Location For Relining Underground Pipelines Cured In-Place Pipe (CIPP)	1,850.16
33 01 30 72-0011	EA	Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Note: Need to mix wet material in bag prior to installation.	1,156.35
33 01 30 72-0012	EA	Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Note: Need to mix wet material in bag prior to installation.	2,775.25
33 01 30 72-0013	EA	Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Note: Need to mix wet material in bag prior to installation.	4,625.43
33 01 30 72-0014	EA	Mixing Truck And Refrigeration For Relining >48" To 72" Underground Pipelines Cured In-Place Pipe (CIPP) Note: Need to mix wet material in bag prior to installation.	6,938.13

33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP)

(33 01 30 72-0001)

Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting.

33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0017	LF	4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	17.35
		For Vinlyester Resin, Add	*3.65*
		For Epoxy Resin, Add	*0.43*
		For Up To >10, Add	*39.03*
		For >10 To 25, Add	*31.65*
		For >25 To 50, Add	*19.25*
		For >50 To 100, Add	*9.63*
		For >500 To 1,000, Deduct	*-1.17*
		For >1,000 To 2,000, Deduct	*-1.91*
		For >2,000 To 5,000, Deduct	*-3.66*
		For >5,000, Deduct	*-5.90*
33 01 30 72-0018	LF	4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	20.21
		For Vinlyester Resin, Add	*5.65*
		For Epoxy Resin, Add	*0.67*
		For Up To >10, Add	*40.46*
		For >10 To 25, Add	*32.37*
		For >25 To 50, Add	*19.82*
		For >50 To 100, Add	*9.91*
		For >500 To 1,000, Deduct	*-1.31*
		For >1,000 To 2,000, Deduct	*-2.12*
		For >2,000 To 5,000, Deduct	*-4.00*
		For >5,000, Deduct	*-6.47*
33 01 30 72-0019	LF	4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	23.07
		For Vinlyester Resin, Add	*7.65*
		For Epoxy Resin, Add	*0.90*
		For Up To >10, Add	*41.89*
		For >10 To 25, Add	*33.08*
		For >25 To 50, Add	*20.40*
		For >50 To 100, Add	*10.20*
		For >500 To 1,000, Deduct	*-1.46*
		For >1,000 To 2,000, Deduct	*-2.34*
		For >2,000 To 5,000, Deduct	*-4.35*
		For >5,000, Deduct	*-7.04*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0020	LF	4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	29.93	
		For Vinlyester Resin, Add	*11.65*	
		For Epoxy Resin, Add	*1.37*	
		For Up To >10, Add	*48.19*	
		For >10 To 25, Add	*37.39*	
		For >25 To 50, Add	*23.26*	
		For >50 To 100, Add	*11.63*	
		For >500 To 1,000, Deduct	*-1.83*	
		For >1,000 To 2,000, Deduct	*-2.91*	
		For >2,000 To 5,000, Deduct	*-5.32*	
		For >5,000, Deduct	*-8.64*	
33 01 30 72-0021	LF	4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	36.81	
		For Vinlyester Resin, Add	*15.65*	
		For Epoxy Resin, Add	*1.84*	
		For Up To >10, Add	*54.53*	
		For >10 To 25, Add	*41.72*	
		For >25 To 50, Add	*26.15*	
		For >50 To 100, Add	*13.07*	
		For >500 To 1,000, Deduct	*-2.20*	
		For >1,000 To 2,000, Deduct	*-3.48*	
		For >2,000 To 5,000, Deduct	*-6.30*	
		For >5,000, Deduct	*-10.25*	

33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0023	LF	6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	22.67	
		For Vinlyester Resin, Add	*7.37*	
		For Epoxy Resin, Add	*0.87*	
		For Up To >10, Add	*41.69*	
		For >10 To 25, Add	*32.98*	
		For >25 To 50, Add	*20.32*	
		For >50 To 100, Add	*10.16*	
		For >500 To 1,000, Deduct	*-1.44*	
		For >1,000 To 2,000, Deduct	*-2.31*	
		For >2,000 To 5,000, Deduct	*-4.30*	
		For >5,000, Deduct	*-6.96*	
33 01 30 72-0024	LF	6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	26.48	
		For Vinlyester Resin, Add	*10.04*	
		For Epoxy Resin, Add	*1.18*	
		For Up To >10, Add	*43.59*	
		For >10 To 25, Add	*33.94*	
		For >25 To 50, Add	*21.08*	
		For >50 To 100, Add	*10.54*	
		For >500 To 1,000, Deduct	*-1.63*	
		For >1,000 To 2,000, Deduct	*-2.59*	
		For >2,000 To 5,000, Deduct	*-4.76*	
		For >5,000, Deduct	*-7.72*	
33 01 30 72-0025	LF	6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	35.25	
		For Vinlyester Resin, Add	*15.37*	
		For Epoxy Resin, Add	*1.81*	
		For Up To >10, Add	*50.85*	
		For >10 To 25, Add	*38.72*	
		For >25 To 50, Add	*24.33*	
		For >50 To 100, Add	*12.16*	
		For >500 To 1,000, Deduct	*-2.09*	
		For >1,000 To 2,000, Deduct	*-3.31*	
		For >2,000 To 5,000, Deduct	*-5.96*	
		For >5,000, Deduct	*-9.71*	
33 01 30 72-0026	LF	6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	44.04	
		For Vinlyester Resin, Add	*20.71*	
		For Epoxy Resin, Add	*2.44*	
		For Up To >10, Add	*58.15*	
		For >10 To 25, Add	*43.52*	
		For >25 To 50, Add	*27.59*	
		For >50 To 100, Add	*13.80*	
		For >500 To 1,000, Deduct	*-2.56*	
		For >1,000 To 2,000, Deduct	*-4.03*	
		For >2,000 To 5,000, Deduct	*-7.16*	
		For >5,000, Deduct	*-11.70*	
33 01 30 72-0027	LF	6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	52.93	
		For Vinlyester Resin, Add	*26.05*	
		For Epoxy Resin, Add	*3.07*	
		For Up To >10, Add	*65.77*	
		For >10 To 25, Add	*48.60*	
		For >25 To 50, Add	*31.02*	
		For >50 To 100, Add	*15.51*	
		For >500 To 1,000, Deduct	*-3.04*	
		For >1,000 To 2,000, Deduct	*-4.76*	
		For >2,000 To 5,000, Deduct	*-8.40*	
		For >5,000, Deduct	*-13.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0028	LF	6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	62.17	
		For Vinlyester Resin, Add	*31.38*	
		For Epoxy Resin, Add	*3.70*	
		For Up To >10, Add	*74.44*	
		For >10 To 25, Add	*54.56*	
		For >25 To 50, Add	*34.98*	
		For >50 To 100, Add	*17.49*	
		For >500 To 1,000, Deduct	*-3.54*	
		For >1,000 To 2,000, Deduct	*-5.53*	
		For >2,000 To 5,000, Deduct	*-9.71*	
		For >5,000, Deduct	*-15.90*	

33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0030	LF	7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	29.79	
		For Vinlyester Resin, Add	*12.36*	
		For Epoxy Resin, Add	*1.46*	
		For Up To >10, Add	*45.25*	
		For >10 To 25, Add	*34.76*	
		For >25 To 50, Add	*21.74*	
		For >50 To 100, Add	*10.87*	
		For >500 To 1,000, Deduct	*-1.79*	
		For >1,000 To 2,000, Deduct	*-2.84*	
		For >2,000 To 5,000, Deduct	*-5.15*	
		For >5,000, Deduct	*-8.39*	
33 01 30 72-0031	LF	7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	40.46	
		For Vinlyester Resin, Add	*19.02*	
		For Epoxy Resin, Add	*2.24*	
		For Up To >10, Add	*53.46*	
		For >10 To 25, Add	*40.02*	
		For >25 To 50, Add	*25.37*	
		For >50 To 100, Add	*12.68*	
		For >500 To 1,000, Deduct	*-2.36*	
		For >1,000 To 2,000, Deduct	*-3.70*	
		For >2,000 To 5,000, Deduct	*-6.58*	
		For >5,000, Deduct	*-10.75*	
33 01 30 72-0032	LF	7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	51.15	
		For Vinlyester Resin, Add	*25.69*	
		For Epoxy Resin, Add	*3.03*	
		For Up To >10, Add	*61.70*	
		For >10 To 25, Add	*45.30*	
		For >25 To 50, Add	*29.02*	
		For >50 To 100, Add	*14.51*	
		For >500 To 1,000, Deduct	*-2.92*	
		For >1,000 To 2,000, Deduct	*-4.56*	
		For >2,000 To 5,000, Deduct	*-8.02*	
		For >5,000, Deduct	*-13.12*	
33 01 30 72-0033	LF	7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	61.95	
		For Vinlyester Resin, Add	*32.36*	
		For Epoxy Resin, Add	*3.81*	
		For Up To >10, Add	*70.28*	
		For >10 To 25, Add	*50.86*	
		For >25 To 50, Add	*32.83*	
		For >50 To 100, Add	*16.41*	
		For >500 To 1,000, Deduct	*-3.49*	
		For >1,000 To 2,000, Deduct	*-5.43*	
		For >2,000 To 5,000, Deduct	*-9.48*	
		For >5,000, Deduct	*-15.53*	
33 01 30 72-0034	LF	7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	73.09	
		For Vinlyester Resin, Add	*39.03*	
		For Epoxy Resin, Add	*4.60*	
		For Up To >10, Add	*79.90*	
		For >10 To 25, Add	*57.29*	
		For >25 To 50, Add	*37.16*	
		For >50 To 100, Add	*18.58*	
		For >500 To 1,000, Deduct	*-4.09*	
		For >1,000 To 2,000, Deduct	*-6.35*	
		For >2,000 To 5,000, Deduct	*-11.03*	
		For >5,000, Deduct	*-18.09*	
33 01 30 72-0035	LF	7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	89.70	
		For Vinlyester Resin, Add	*49.03*	
		For Epoxy Resin, Add	*5.78*	
		For Up To >10, Add	*94.00*	
		For >10 To 25, Add	*66.66*	
		For >25 To 50, Add	*43.50*	
		For >50 To 100, Add	*21.75*	
		For >500 To 1,000, Deduct	*-4.98*	
		For >1,000 To 2,000, Deduct	*-7.71*	
		For >2,000 To 5,000, Deduct	*-13.32*	
		For >5,000, Deduct	*-21.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0036	LF	7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	106.53	
		For Vinlyester Resin, Add	*59.03*	
		For Epoxy Resin, Add	*6.96*	
		For Up To >10, Add	*108.77*	
		For >10 To 25, Add	*76.58*	
		For >25 To 50, Add	*50.17*	
		For >50 To 100, Add	*25.08*	
		For >500 To 1,000, Deduct	*-5.88*	
		For >1,000 To 2,000, Deduct	*-9.10*	
		For >2,000 To 5,000, Deduct	*-15.67*	
		For >5,000, Deduct	*-25.75*	

33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0038	LF	9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	45.56	
		For Vinlyester Resin, Add	*22.59*	
		For Epoxy Resin, Add	*2.66*	
		For Up To >10, Add	*56.01*	
		For >10 To 25, Add	*41.29*	
		For >25 To 50, Add	*26.39*	
		For >50 To 100, Add	*13.19*	
		For >500 To 1,000, Deduct	*-2.61*	
		For >1,000 To 2,000, Deduct	*-4.08*	
		For >2,000 To 5,000, Deduct	*-7.19*	
		For >5,000, Deduct	*-11.77*	
33 01 30 72-0039	LF	9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	58.15	
		For Vinlyester Resin, Add	*30.59*	
		For Epoxy Resin, Add	*3.61*	
		For Up To >10, Add	*65.20*	
		For >10 To 25, Add	*47.05*	
		For >25 To 50, Add	*30.42*	
		For >50 To 100, Add	*15.21*	
		For >500 To 1,000, Deduct	*-3.27*	
		For >1,000 To 2,000, Deduct	*-5.08*	
		For >2,000 To 5,000, Deduct	*-8.86*	
		For >5,000, Deduct	*-14.52*	
33 01 30 72-0040	LF	9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	70.86	
		For Vinlyester Resin, Add	*38.60*	
		For Epoxy Resin, Add	*4.55*	
		For Up To >10, Add	*74.73*	
		For >10 To 25, Add	*53.09*	
		For >25 To 50, Add	*34.61*	
		For >50 To 100, Add	*17.30*	
		For >500 To 1,000, Deduct	*-3.94*	
		For >1,000 To 2,000, Deduct	*-6.10*	
		For >2,000 To 5,000, Deduct	*-10.55*	
		For >5,000, Deduct	*-17.32*	
33 01 30 72-0041	LF	9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	83.90	
		For Vinlyester Resin, Add	*46.59*	
		For Epoxy Resin, Add	*5.49*	
		For Up To >10, Add	*85.30*	
		For >10 To 25, Add	*59.99*	
		For >25 To 50, Add	*39.32*	
		For >50 To 100, Add	*19.66*	
		For >500 To 1,000, Deduct	*-4.63*	
		For >1,000 To 2,000, Deduct	*-7.16*	
		For >2,000 To 5,000, Deduct	*-12.32*	
		For >5,000, Deduct	*-20.25*	
33 01 30 72-0042	LF	9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	103.37	
		For Vinlyester Resin, Add	*58.60*	
		For Epoxy Resin, Add	*6.91*	
		For Up To >10, Add	*100.84*	
		For >10 To 25, Add	*70.08*	
		For >25 To 50, Add	*46.23*	
		For >50 To 100, Add	*23.12*	
		For >500 To 1,000, Deduct	*-5.66*	
		For >1,000 To 2,000, Deduct	*-8.74*	
		For >2,000 To 5,000, Deduct	*-14.96*	
		For >5,000, Deduct	*-24.61*	
33 01 30 72-0043	LF	9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	123.06	
		For Vinlyester Resin, Add	*70.60*	
		For Epoxy Resin, Add	*8.32*	
		For Up To >10, Add	*117.03*	
		For >10 To 25, Add	*80.72*	
		For >25 To 50, Add	*53.47*	
		For >50 To 100, Add	*26.74*	
		For >500 To 1,000, Deduct	*-6.71*	
		For >1,000 To 2,000, Deduct	*-10.34*	
		For >2,000 To 5,000, Deduct	*-17.65*	
		For >5,000, Deduct	*-29.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0044	LF	9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	142.06	
		For Vinlyester Resin, Add	*82.61*	
		For Epoxy Resin, Add	*9.74*	
		For Up To >10, Add	*131.16*	
		For >10 To 25, Add	*89.63*	
		For >25 To 50, Add	*59.68*	
		For >50 To 100, Add	*29.84*	
		For >500 To 1,000, Deduct	*-7.70*	
		For >1,000 To 2,000, Deduct	*-11.86*	
		For >2,000 To 5,000, Deduct	*-20.17*	
		For >5,000, Deduct	*-33.22*	
33 01 30 72-0045	LF	9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	161.41	
		For Vinlyester Resin, Add	*94.61*	
		For Epoxy Resin, Add	*11.15*	
		For Up To >10, Add	*146.33*	
		For >10 To 25, Add	*99.42*	
		For >25 To 50, Add	*66.41*	
		For >50 To 100, Add	*33.20*	
		For >500 To 1,000, Deduct	*-8.73*	
		For >1,000 To 2,000, Deduct	*-13.42*	
		For >2,000 To 5,000, Deduct	*-22.78*	
		For >5,000, Deduct	*-37.53*	

33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0047	LF	10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	116.93	
		For Vinlyester Resin, Add	*68.09*	
		For Epoxy Resin, Add	*8.02*	
		For Up To >10, Add	*107.62*	
		For >10 To 25, Add	*73.47*	
		For >25 To 50, Add	*48.94*	
		For >50 To 100, Add	*24.47*	
		For >500 To 1,000, Deduct	*-6.34*	
		For >1,000 To 2,000, Deduct	*-9.75*	
		For >2,000 To 5,000, Deduct	*-16.59*	
		For >5,000, Deduct	*-27.32*	
33 01 30 72-0048	LF	10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	139.48	
		For Vinlyester Resin, Add	*82.10*	
		For Epoxy Resin, Add	*9.68*	
		For Up To >10, Add	*125.24*	
		For >10 To 25, Add	*84.82*	
		For >25 To 50, Add	*56.76*	
		For >50 To 100, Add	*28.38*	
		For >500 To 1,000, Deduct	*-7.53*	
		For >1,000 To 2,000, Deduct	*-11.57*	
		For >2,000 To 5,000, Deduct	*-19.62*	
		For >5,000, Deduct	*-32.34*	
33 01 30 72-0049	LF	10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	161.33	
		For Vinlyester Resin, Add	*96.10*	
		For Epoxy Resin, Add	*11.33*	
		For Up To >10, Add	*140.79*	
		For >10 To 25, Add	*94.45*	
		For >25 To 50, Add	*63.53*	
		For >50 To 100, Add	*31.77*	
		For >500 To 1,000, Deduct	*-8.67*	
		For >1,000 To 2,000, Deduct	*-13.30*	
		For >2,000 To 5,000, Deduct	*-22.49*	
		For >5,000, Deduct	*-37.08*	
33 01 30 72-0050	LF	10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	183.54	
		For Vinlyester Resin, Add	*110.10*	
		For Epoxy Resin, Add	*12.98*	
		For Up To >10, Add	*157.40*	
		For >10 To 25, Add	*104.95*	
		For >25 To 50, Add	*70.83*	
		For >50 To 100, Add	*35.42*	
		For >500 To 1,000, Deduct	*-9.83*	
		For >1,000 To 2,000, Deduct	*-15.08*	
		For >2,000 To 5,000, Deduct	*-25.44*	
		For >5,000, Deduct	*-41.96*	
33 01 30 72-0051	LF	10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	206.20	
		For Vinlyester Resin, Add	*124.10*	
		For Epoxy Resin, Add	*14.63*	
		For Up To >10, Add	*175.38*	
		For >10 To 25, Add	*116.60*	
		For >25 To 50, Add	*78.82*	
		For >50 To 100, Add	*39.41*	
		For >500 To 1,000, Deduct	*-11.03*	
		For >1,000 To 2,000, Deduct	*-16.91*	
		For >2,000 To 5,000, Deduct	*-28.50*	
		For >5,000, Deduct	*-47.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0052	LF	10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	229.45	
		For Vinlyester Resin, Add	*138.11*	
		For Epoxy Resin, Add	*16.28*	
		For Up To >10, Add	*195.10*	
		For >10 To 25, Add	*129.70*	
		For >25 To 50, Add	*87.69*	
		For >50 To 100, Add	*43.84*	
		For >500 To 1,000, Deduct	*-12.28*	
		For >1,000 To 2,000, Deduct	*-18.82*	
		For >2,000 To 5,000, Deduct	*-31.71*	
		For >5,000, Deduct	*-52.32*	
33 01 30 72-0053	LF	10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	273.51	
		For Vinlyester Resin, Add	*166.12*	
		For Epoxy Resin, Add	*19.58*	
		For Up To >10, Add	*227.26*	
		For >10 To 25, Add	*149.83*	
		For >25 To 50, Add	*101.76*	
		For >50 To 100, Add	*50.88*	
		For >500 To 1,000, Deduct	*-14.58*	
		For >1,000 To 2,000, Deduct	*-22.32*	
		For >2,000 To 5,000, Deduct	*-37.53*	
		For >5,000, Deduct	*-61.94*	

33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0055	LF	12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	130.38	
		For Vinlyester Resin, Add	*77.50*	
		For Epoxy Resin, Add	*9.13*	
		For Up To >10, Add	*114.34*	
		For >10 To 25, Add	*76.83*	
		For >25 To 50, Add	*51.63*	
		For >50 To 100, Add	*25.82*	
		For >500 To 1,000, Deduct	*-7.01*	
		For >1,000 To 2,000, Deduct	*-10.76*	
		For >2,000 To 5,000, Deduct	*-18.20*	
		For >5,000, Deduct	*-30.01*	
33 01 30 72-0056	LF	12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	155.78	
		For Vinlyester Resin, Add	*93.51*	
		For Epoxy Resin, Add	*11.02*	
		For Up To >10, Add	*133.39*	
		For >10 To 25, Add	*88.90*	
		For >25 To 50, Add	*60.02*	
		For >50 To 100, Add	*30.01*	
		For >500 To 1,000, Deduct	*-8.34*	
		For >1,000 To 2,000, Deduct	*-12.79*	
		For >2,000 To 5,000, Deduct	*-21.58*	
		For >5,000, Deduct	*-35.60*	
33 01 30 72-0057	LF	12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	180.50	
		For Vinlyester Resin, Add	*109.52*	
		For Epoxy Resin, Add	*12.91*	
		For Up To >10, Add	*150.38*	
		For >10 To 25, Add	*99.24*	
		For >25 To 50, Add	*67.37*	
		For >50 To 100, Add	*33.68*	
		For >500 To 1,000, Deduct	*-9.63*	
		For >1,000 To 2,000, Deduct	*-14.74*	
		For >2,000 To 5,000, Deduct	*-24.79*	
		For >5,000, Deduct	*-40.91*	
33 01 30 72-0058	LF	12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	205.56	
		For Vinlyester Resin, Add	*125.52*	
		For Epoxy Resin, Add	*14.79*	
		For Up To >10, Add	*168.41*	
		For >10 To 25, Add	*110.45*	
		For >25 To 50, Add	*75.24*	
		For >50 To 100, Add	*37.62*	
		For >500 To 1,000, Deduct	*-10.93*	
		For >1,000 To 2,000, Deduct	*-16.73*	
		For >2,000 To 5,000, Deduct	*-28.08*	
		For >5,000, Deduct	*-46.36*	
33 01 30 72-0059	LF	12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	231.08	
		For Vinlyester Resin, Add	*141.52*	
		For Epoxy Resin, Add	*16.68*	
		For Up To >10, Add	*187.82*	
		For >10 To 25, Add	*122.82*	
		For >25 To 50, Add	*83.80*	
		For >50 To 100, Add	*41.90*	
		For >500 To 1,000, Deduct	*-12.28*	
		For >1,000 To 2,000, Deduct	*-18.78*	
		For >2,000 To 5,000, Deduct	*-31.49*	
		For >5,000, Deduct	*-52.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0060	LF	12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	257.18	
		For Vinlyester Resin, Add	*157.52*	
		For Epoxy Resin, Add	*18.56*	
		For Up To >10, Add	*208.97*	
		For >10 To 25, Add	*136.63*	
		For >25 To 50, Add	*93.23*	
		For >50 To 100, Add	*46.62*	
		For >500 To 1,000, Deduct	*-13.66*	
		For >1,000 To 2,000, Deduct	*-20.90*	
		For >2,000 To 5,000, Deduct	*-35.04*	
		For >5,000, Deduct	*-57.87*	
33 01 30 72-0061	LF	12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	306.96	
		For Vinlyester Resin, Add	*189.53*	
		For Epoxy Resin, Add	*22.34*	
		For Up To >10, Add	*243.98*	
		For >10 To 25, Add	*158.19*	
		For >25 To 50, Add	*108.45*	
		For >50 To 100, Add	*54.23*	
		For >500 To 1,000, Deduct	*-16.25*	
		For >1,000 To 2,000, Deduct	*-24.83*	
		For >2,000 To 5,000, Deduct	*-41.54*	
		For >5,000, Deduct	*-68.63*	
33 01 30 72-0062	LF	12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	357.77	
		For Vinlyester Resin, Add	*221.54*	
		For Epoxy Resin, Add	*26.11*	
		For Up To >10, Add	*282.09*	
		For >10 To 25, Add	*182.32*	
		For >25 To 50, Add	*125.22*	
		For >50 To 100, Add	*62.61*	
		For >500 To 1,000, Deduct	*-18.92*	
		For >1,000 To 2,000, Deduct	*-28.90*	
		For >2,000 To 5,000, Deduct	*-48.30*	
		For >5,000, Deduct	*-79.81*	
33 01 30 72-0063	LF	12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	410.44	
		For Vinlyester Resin, Add	*253.55*	
		For Epoxy Resin, Add	*29.88*	
		For Up To >10, Add	*325.77*	
		For >10 To 25, Add	*211.11*	
		For >25 To 50, Add	*144.77*	
		For >50 To 100, Add	*72.39*	
		For >500 To 1,000, Deduct	*-21.73*	
		For >1,000 To 2,000, Deduct	*-33.19*	
		For >2,000 To 5,000, Deduct	*-55.52*	
		For >5,000, Deduct	*-91.73*	

33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0065	LF	13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	143.71	
		For Vinlyester Resin, Add	*86.84*	
		For Epoxy Resin, Add	*10.23*	
		For Up To >10, Add	*121.01*	
		For >10 To 25, Add	*80.16*	
		For >25 To 50, Add	*54.30*	
		For >50 To 100, Add	*27.15*	
		For >500 To 1,000, Deduct	*-7.68*	
		For >1,000 To 2,000, Deduct	*-11.76*	
		For >2,000 To 5,000, Deduct	*-19.80*	
		For >5,000, Deduct	*-32.67*	
33 01 30 72-0066	LF	13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	171.97	
		For Vinlyester Resin, Add	*104.84*	
		For Epoxy Resin, Add	*12.36*	
		For Up To >10, Add	*141.49*	
		For >10 To 25, Add	*92.94*	
		For >25 To 50, Add	*63.25*	
		For >50 To 100, Add	*31.63*	
		For >500 To 1,000, Deduct	*-9.15*	
		For >1,000 To 2,000, Deduct	*-14.01*	
		For >2,000 To 5,000, Deduct	*-23.52*	
		For >5,000, Deduct	*-38.83*	
33 01 30 72-0067	LF	13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	199.55	
		For Vinlyester Resin, Add	*122.85*	
		For Epoxy Resin, Add	*14.48*	
		For Up To >10, Add	*159.90*	
		For >10 To 25, Add	*104.00*	
		For >25 To 50, Add	*71.18*	
		For >50 To 100, Add	*35.59*	
		For >500 To 1,000, Deduct	*-10.58*	
		For >1,000 To 2,000, Deduct	*-16.17*	
		For >2,000 To 5,000, Deduct	*-27.07*	
		For >5,000, Deduct	*-44.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0068	LF	13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	227.47	
		For Vinlyester Resin, Add	*140.85*	
		For Epoxy Resin, Add	*16.60*	
		For Up To >10, Add	*179.36*	
		For >10 To 25, Add	*115.93*	
		For >25 To 50, Add	*79.62*	
		For >50 To 100, Add	*39.81*	
		For >500 To 1,000, Deduct	*-12.03*	
		For >1,000 To 2,000, Deduct	*-18.37*	
		For >2,000 To 5,000, Deduct	*-30.71*	
		For >5,000, Deduct	*-50.74*	
33 01 30 72-0069	LF	13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	255.85	
		For Vinlyester Resin, Add	*158.86*	
		For Epoxy Resin, Add	*18.72*	
		For Up To >10, Add	*200.20*	
		For >10 To 25, Add	*129.01*	
		For >25 To 50, Add	*88.75*	
		For >50 To 100, Add	*44.38*	
		For >500 To 1,000, Deduct	*-13.52*	
		For >1,000 To 2,000, Deduct	*-20.63*	
		For >2,000 To 5,000, Deduct	*-34.46*	
		For >5,000, Deduct	*-56.95*	
33 01 30 72-0070	LF	13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	284.81	
		For Vinlyester Resin, Add	*176.86*	
		For Epoxy Resin, Add	*20.84*	
		For Up To >10, Add	*222.78*	
		For >10 To 25, Add	*143.54*	
		For >25 To 50, Add	*98.76*	
		For >50 To 100, Add	*49.38*	
		For >500 To 1,000, Deduct	*-15.04*	
		For >1,000 To 2,000, Deduct	*-22.97*	
		For >2,000 To 5,000, Deduct	*-38.36*	
		For >5,000, Deduct	*-63.39*	
33 01 30 72-0071	LF	13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	340.30	
		For Vinlyester Resin, Add	*212.87*	
		For Epoxy Resin, Add	*25.09*	
		For Up To >10, Add	*260.65*	
		For >10 To 25, Add	*166.53*	
		For >25 To 50, Add	*115.12*	
		For >50 To 100, Add	*57.56*	
		For >500 To 1,000, Deduct	*-17.92*	
		For >1,000 To 2,000, Deduct	*-27.33*	
		For >2,000 To 5,000, Deduct	*-45.54*	
		For >5,000, Deduct	*-75.30*	
33 01 30 72-0072	LF	13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	396.82	
		For Vinlyester Resin, Add	*248.88*	
		For Epoxy Resin, Add	*29.33*	
		For Up To >10, Add	*301.61*	
		For >10 To 25, Add	*192.09*	
		For >25 To 50, Add	*133.03*	
		For >50 To 100, Add	*66.51*	
		For >500 To 1,000, Deduct	*-20.87*	
		For >1,000 To 2,000, Deduct	*-31.83*	
		For >2,000 To 5,000, Deduct	*-52.98*	
		For >5,000, Deduct	*-87.62*	
33 01 30 72-0073	LF	13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	455.21	
		For Vinlyester Resin, Add	*284.89*	
		For Epoxy Resin, Add	*33.58*	
		For Up To >10, Add	*348.16*	
		For >10 To 25, Add	*222.30*	
		For >25 To 50, Add	*153.73*	
		For >50 To 100, Add	*76.86*	
		For >500 To 1,000, Deduct	*-23.97*	
		For >1,000 To 2,000, Deduct	*-36.55*	
		For >2,000 To 5,000, Deduct	*-60.89*	
		For >5,000, Deduct	*-100.69*	

33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0075	LF	15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	156.93	
		For Vinlyester Resin, Add	*96.09*	
		For Epoxy Resin, Add	*11.32*	
		For Up To >10, Add	*127.62*	
		For >10 To 25, Add	*83.47*	
		For >25 To 50, Add	*56.94*	
		For >50 To 100, Add	*28.47*	
		For >500 To 1,000, Deduct	*-8.34*	
		For >1,000 To 2,000, Deduct	*-12.75*	
		For >2,000 To 5,000, Deduct	*-21.39*	
		For >5,000, Deduct	*-35.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0076	LF	15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	188.05	
		For Vinlyester Resin, Add	*116.10*	
		For Epoxy Resin, Add	*13.68*	
		For Up To >10, Add	*149.53*	
		For >10 To 25, Add	*96.96*	
		For >25 To 50, Add	*66.47*	
		For >50 To 100, Add	*33.24*	
		For >500 To 1,000, Deduct	*-9.96*	
		For >1,000 To 2,000, Deduct	*-15.21*	
		For >2,000 To 5,000, Deduct	*-25.45*	
		For >5,000, Deduct	*-42.05*	
33 01 30 72-0077	LF	15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	218.48	
		For Vinlyester Resin, Add	*136.10*	
		For Epoxy Resin, Add	*16.04*	
		For Up To >10, Add	*169.37*	
		For >10 To 25, Add	*108.73*	
		For >25 To 50, Add	*74.96*	
		For >50 To 100, Add	*37.48*	
		For >500 To 1,000, Deduct	*-11.53*	
		For >1,000 To 2,000, Deduct	*-17.59*	
		For >2,000 To 5,000, Deduct	*-29.34*	
		For >5,000, Deduct	*-48.51*	
33 01 30 72-0078	LF	15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	249.26	
		For Vinlyester Resin, Add	*156.11*	
		For Epoxy Resin, Add	*18.40*	
		For Up To >10, Add	*190.26*	
		For >10 To 25, Add	*121.38*	
		For >25 To 50, Add	*83.98*	
		For >50 To 100, Add	*41.99*	
		For >500 To 1,000, Deduct	*-13.12*	
		For >1,000 To 2,000, Deduct	*-20.01*	
		For >2,000 To 5,000, Deduct	*-33.32*	
		For >5,000, Deduct	*-55.10*	
33 01 30 72-0079	LF	15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	280.50	
		For Vinlyester Resin, Add	*176.11*	
		For Epoxy Resin, Add	*20.76*	
		For Up To >10, Add	*212.53*	
		For >10 To 25, Add	*135.17*	
		For >25 To 50, Add	*93.68*	
		For >50 To 100, Add	*46.84*	
		For >500 To 1,000, Deduct	*-14.75*	
		For >1,000 To 2,000, Deduct	*-22.48*	
		For >2,000 To 5,000, Deduct	*-37.42*	
		For >5,000, Deduct	*-61.88*	
33 01 30 72-0080	LF	15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	312.32	
		For Vinlyester Resin, Add	*196.12*	
		For Epoxy Resin, Add	*23.11*	
		For Up To >10, Add	*236.54*	
		For >10 To 25, Add	*150.42*	
		For >25 To 50, Add	*104.26*	
		For >50 To 100, Add	*52.13*	
		For >500 To 1,000, Deduct	*-16.42*	
		For >1,000 To 2,000, Deduct	*-25.03*	
		For >2,000 To 5,000, Deduct	*-41.66*	
		For >5,000, Deduct	*-68.89*	
33 01 30 72-0081	LF	15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	373.53	
		For Vinlyester Resin, Add	*236.13*	
		For Epoxy Resin, Add	*27.83*	
		For Up To >10, Add	*277.27*	
		For >10 To 25, Add	*174.83*	
		For >25 To 50, Add	*121.77*	
		For >50 To 100, Add	*60.88*	
		For >500 To 1,000, Deduct	*-19.58*	
		For >1,000 To 2,000, Deduct	*-29.82*	
		For >2,000 To 5,000, Deduct	*-49.53*	
		For >5,000, Deduct	*-81.95*	
33 01 30 72-0082	LF	15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	435.77	
		For Vinlyester Resin, Add	*276.14*	
		For Epoxy Resin, Add	*32.55*	
		For Up To >10, Add	*321.09*	
		For >10 To 25, Add	*201.82*	
		For >25 To 50, Add	*140.82*	
		For >50 To 100, Add	*70.41*	
		For >500 To 1,000, Deduct	*-22.82*	
		For >1,000 To 2,000, Deduct	*-34.75*	
		For >2,000 To 5,000, Deduct	*-57.66*	
		For >5,000, Deduct	*-95.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0083	LF	15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	499.87	
		For Vinlyester Resin, Add	*316.16*	
		For Epoxy Resin, Add	*37.26*	
		For Up To >10, Add	*370.49*	
		For >10 To 25, Add	*233.46*	
		For >25 To 50, Add	*162.66*	
		For >50 To 100, Add	*81.33*	
		For >500 To 1,000, Deduct	*-26.20*	
		For >1,000 To 2,000, Deduct	*-39.90*	
		For >2,000 To 5,000, Deduct	*-66.25*	
		For >5,000, Deduct	*-109.62*	

33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0085	LF	16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	204.02	
		For Vinlyester Resin, Add	*127.27*	
		For Epoxy Resin, Add	*15.00*	
		For Up To >10, Add	*157.51*	
		For >10 To 25, Add	*100.96*	
		For >25 To 50, Add	*69.66*	
		For >50 To 100, Add	*34.83*	
		For >500 To 1,000, Deduct	*-10.76*	
		For >1,000 To 2,000, Deduct	*-16.41*	
		For >2,000 To 5,000, Deduct	*-27.37*	
		For >5,000, Deduct	*-45.24*	
33 01 30 72-0086	LF	16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	237.30	
		For Vinlyester Resin, Add	*149.28*	
		For Epoxy Resin, Add	*17.59*	
		For Up To >10, Add	*178.78*	
		For >10 To 25, Add	*113.44*	
		For >25 To 50, Add	*78.73*	
		For >50 To 100, Add	*39.36*	
		For >500 To 1,000, Deduct	*-12.47*	
		For >1,000 To 2,000, Deduct	*-19.00*	
		For >2,000 To 5,000, Deduct	*-31.60*	
		For >5,000, Deduct	*-52.27*	
33 01 30 72-0087	LF	16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	270.94	
		For Vinlyester Resin, Add	*171.28*	
		For Epoxy Resin, Add	*20.19*	
		For Up To >10, Add	*201.10*	
		For >10 To 25, Add	*126.80*	
		For >25 To 50, Add	*88.31*	
		For >50 To 100, Add	*44.16*	
		For >500 To 1,000, Deduct	*-14.20*	
		For >1,000 To 2,000, Deduct	*-21.63*	
		For >2,000 To 5,000, Deduct	*-35.93*	
		For >5,000, Deduct	*-59.44*	
33 01 30 72-0088	LF	16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	305.04	
		For Vinlyester Resin, Add	*193.29*	
		For Epoxy Resin, Add	*22.78*	
		For Up To >10, Add	*224.80*	
		For >10 To 25, Add	*141.31*	
		For >25 To 50, Add	*98.59*	
		For >50 To 100, Add	*49.30*	
		For >500 To 1,000, Deduct	*-15.97*	
		For >1,000 To 2,000, Deduct	*-24.32*	
		For >2,000 To 5,000, Deduct	*-40.36*	
		For >5,000, Deduct	*-66.79*	
33 01 30 72-0089	LF	16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	339.72	
		For Vinlyester Resin, Add	*215.30*	
		For Epoxy Resin, Add	*25.37*	
		For Up To >10, Add	*250.24*	
		For >10 To 25, Add	*157.27*	
		For >25 To 50, Add	*109.74*	
		For >50 To 100, Add	*54.87*	
		For >500 To 1,000, Deduct	*-17.79*	
		For >1,000 To 2,000, Deduct	*-27.09*	
		For >2,000 To 5,000, Deduct	*-44.95*	
		For >5,000, Deduct	*-74.37*	
33 01 30 72-0090	LF	16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	406.64	
		For Vinlyester Resin, Add	*259.31*	
		For Epoxy Resin, Add	*30.56*	
		For Up To >10, Add	*293.82*	
		For >10 To 25, Add	*183.11*	
		For >25 To 50, Add	*128.39*	
		For >50 To 100, Add	*64.19*	
		For >500 To 1,000, Deduct	*-21.24*	
		For >1,000 To 2,000, Deduct	*-32.31*	
		For >2,000 To 5,000, Deduct	*-53.50*	
		For >5,000, Deduct	*-88.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0091	LF	16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	474.60	
		For Vinlyester Resin, Add	*303.32*	
		For Epoxy Resin, Add	*35.75*	
		For Up To >10, Add	*340.50*	
		For >10 To 25, Add	*211.53*	
		For >25 To 50, Add	*148.58*	
		For >50 To 100, Add	*74.29*	
		For >500 To 1,000, Deduct	*-24.76*	
		For >1,000 To 2,000, Deduct	*-37.66*	
		For >2,000 To 5,000, Deduct	*-62.32*	
		For >5,000, Deduct	*-103.18*	
33 01 30 72-0092	LF	16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	544.41	
		For Vinlyester Resin, Add	*347.33*	
		For Epoxy Resin, Add	*40.94*	
		For Up To >10, Add	*392.76*	
		For >10 To 25, Add	*244.60*	
		For >25 To 50, Add	*171.57*	
		For >50 To 100, Add	*85.78*	
		For >500 To 1,000, Deduct	*-28.43*	
		For >1,000 To 2,000, Deduct	*-43.24*	
		For >2,000 To 5,000, Deduct	*-71.60*	
		For >5,000, Deduct	*-118.53*	
33 01 30 72-0093	LF	16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	616.89	
		For Vinlyester Resin, Add	*391.35*	
		For Epoxy Resin, Add	*46.12*	
		For Up To >10, Add	*453.00*	
		For >10 To 25, Add	*284.32*	
		For >25 To 50, Add	*198.54*	
		For >50 To 100, Add	*99.27*	
		For >500 To 1,000, Deduct	*-32.29*	
		For >1,000 To 2,000, Deduct	*-49.16*	
		For >2,000 To 5,000, Deduct	*-81.54*	
		For >5,000, Deduct	*-134.94*	

33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0095	LF	18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	221.03	
		For Vinlyester Resin, Add	*138.37*	
		For Epoxy Resin, Add	*16.31*	
		For Up To >10, Add	*168.92*	
		For >10 To 25, Add	*107.82*	
		For >25 To 50, Add	*74.57*	
		For >50 To 100, Add	*37.29*	
		For >500 To 1,000, Deduct	*-11.64*	
		For >1,000 To 2,000, Deduct	*-17.75*	
		For >2,000 To 5,000, Deduct	*-29.56*	
		For >5,000, Deduct	*-48.88*	
33 01 30 72-0096	LF	18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	257.29	
		For Vinlyester Resin, Add	*162.38*	
		For Epoxy Resin, Add	*19.14*	
		For Up To >10, Add	*191.95*	
		For >10 To 25, Add	*121.29*	
		For >25 To 50, Add	*84.37*	
		For >50 To 100, Add	*42.19*	
		For >500 To 1,000, Deduct	*-13.50*	
		For >1,000 To 2,000, Deduct	*-20.56*	
		For >2,000 To 5,000, Deduct	*-34.17*	
		For >5,000, Deduct	*-56.52*	
33 01 30 72-0097	LF	18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	293.90	
		For Vinlyester Resin, Add	*186.38*	
		For Epoxy Resin, Add	*21.97*	
		For Up To >10, Add	*216.05*	
		For >10 To 25, Add	*135.67*	
		For >25 To 50, Add	*94.71*	
		For >50 To 100, Add	*47.36*	
		For >500 To 1,000, Deduct	*-15.39*	
		For >1,000 To 2,000, Deduct	*-23.42*	
		For >2,000 To 5,000, Deduct	*-38.86*	
		For >5,000, Deduct	*-64.31*	
33 01 30 72-0098	LF	18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	330.97	
		For Vinlyester Resin, Add	*210.39*	
		For Epoxy Resin, Add	*24.80*	
		For Up To >10, Add	*241.51*	
		For >10 To 25, Add	*151.17*	
		For >25 To 50, Add	*105.73*	
		For >50 To 100, Add	*52.86*	
		For >500 To 1,000, Deduct	*-17.31*	
		For >1,000 To 2,000, Deduct	*-26.34*	
		For >2,000 To 5,000, Deduct	*-43.67*	
		For >5,000, Deduct	*-72.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0099	LF	18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	368.62	
		For Vinlyester Resin, Add	*234.40*	
		For Epoxy Resin, Add	*27.63*	
		For Up To >10, Add	*268.74*	
		For >10 To 25, Add	*168.14*	
		For >25 To 50, Add	*117.63*	
		For >50 To 100, Add	*58.81*	
		For >500 To 1,000, Deduct	*-19.28*	
		For >1,000 To 2,000, Deduct	*-29.34*	
		For >2,000 To 5,000, Deduct	*-48.62*	
		For >5,000, Deduct	*-80.48*	
33 01 30 72-0100	LF	18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	441.36	
		For Vinlyester Resin, Add	*282.41*	
		For Epoxy Resin, Add	*33.28*	
		For Up To >10, Add	*315.48*	
		For >10 To 25, Add	*195.66*	
		For >25 To 50, Add	*137.57*	
		For >50 To 100, Add	*68.78*	
		For >500 To 1,000, Deduct	*-23.02*	
		For >1,000 To 2,000, Deduct	*-35.00*	
		For >2,000 To 5,000, Deduct	*-57.89*	
		For >5,000, Deduct	*-95.86*	
33 01 30 72-0101	LF	18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	515.40	
		For Vinlyester Resin, Add	*330.43*	
		For Epoxy Resin, Add	*38.94*	
		For Up To >10, Add	*366.10*	
		For >10 To 25, Add	*226.41*	
		For >25 To 50, Add	*159.45*	
		For >50 To 100, Add	*79.72*	
		For >500 To 1,000, Deduct	*-26.85*	
		For >1,000 To 2,000, Deduct	*-40.82*	
		For >2,000 To 5,000, Deduct	*-67.48*	
		For >5,000, Deduct	*-111.75*	
33 01 30 72-0102	LF	18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	591.28	
		For Vinlyester Resin, Add	*378.44*	
		For Epoxy Resin, Add	*44.60*	
		For Up To >10, Add	*422.27*	
		For >10 To 25, Add	*261.78*	
		For >25 To 50, Add	*184.10*	
		For >50 To 100, Add	*92.05*	
		For >500 To 1,000, Deduct	*-30.83*	
		For >1,000 To 2,000, Deduct	*-46.88*	
		For >2,000 To 5,000, Deduct	*-77.54*	
		For >5,000, Deduct	*-128.39*	
33 01 30 72-0103	LF	18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	669.92	
		For Vinlyester Resin, Add	*426.45*	
		For Epoxy Resin, Add	*50.26*	
		For Up To >10, Add	*486.71*	
		For >10 To 25, Add	*304.06*	
		For >25 To 50, Add	*212.89*	
		For >50 To 100, Add	*106.45*	
		For >500 To 1,000, Deduct	*-35.01*	
		For >1,000 To 2,000, Deduct	*-53.28*	
		For >2,000 To 5,000, Deduct	*-88.28*	
		For >5,000, Deduct	*-146.12*	
33 01 30 72-0104	LF	18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	756.68	
		For Vinlyester Resin, Add	*474.47*	
		For Epoxy Resin, Add	*55.92*	
		For Up To >10, Add	*575.52*	
		For >10 To 25, Add	*366.63*	
		For >25 To 50, Add	*253.87*	
		For >50 To 100, Add	*126.93*	
		For >500 To 1,000, Deduct	*-39.81*	
		For >1,000 To 2,000, Deduct	*-60.69*	
		For >2,000 To 5,000, Deduct	*-101.05*	
		For >5,000, Deduct	*-167.11*	
33 01 30 72-0105	LF	18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	853.95	
		For Vinlyester Resin, Add	*522.48*	
		For Epoxy Resin, Add	*61.58*	
		For Up To >10, Add	*695.85*	
		For >10 To 25, Add	*455.48*	
		For >25 To 50, Add	*310.61*	
		For >50 To 100, Add	*155.30*	
		For >500 To 1,000, Deduct	*-45.39*	
		For >1,000 To 2,000, Deduct	*-69.42*	
		For >2,000 To 5,000, Deduct	*-116.46*	
		For >5,000, Deduct	*-192.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0106	LF	18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	959.53	
		For Vinlyester Resin, Add	*570.49*	
		For Epoxy Resin, Add	*67.24*	
		For Up To >10, Add	*841.12*	
		For >10 To 25, Add	*565.10*	
		For >25 To 50, Add	*379.81*	
		For >50 To 100, Add	*189.90*	
		For >500 To 1,000, Deduct	*-51.59*	
		For >1,000 To 2,000, Deduct	*-79.19*	
		For >2,000 To 5,000, Deduct	*-133.93*	
		For >5,000, Deduct	*-220.81*	

33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0108	LF	19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	236.77	
		For Vinlyester Resin, Add	*149.39*	
		For Epoxy Resin, Add	*17.61*	
		For Up To >10, Add	*176.79*	
		For >10 To 25, Add	*111.75*	
		For >25 To 50, Add	*77.72*	
		For >50 To 100, Add	*38.86*	
		For >500 To 1,000, Deduct	*-12.42*	
		For >1,000 To 2,000, Deduct	*-18.93*	
		For >2,000 To 5,000, Deduct	*-31.45*	
		For >5,000, Deduct	*-52.03*	
33 01 30 72-0109	LF	19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	275.89	
		For Vinlyester Resin, Add	*175.40*	
		For Epoxy Resin, Add	*20.67*	
		For Up To >10, Add	*201.25*	
		For >10 To 25, Add	*125.94*	
		For >25 To 50, Add	*88.09*	
		For >50 To 100, Add	*44.05*	
		For >500 To 1,000, Deduct	*-14.43*	
		For >1,000 To 2,000, Deduct	*-21.96*	
		For >2,000 To 5,000, Deduct	*-36.40*	
		For >5,000, Deduct	*-60.24*	
33 01 30 72-0110	LF	19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	315.36	
		For Vinlyester Resin, Add	*201.40*	
		For Epoxy Resin, Add	*23.74*	
		For Up To >10, Add	*226.78*	
		For >10 To 25, Add	*141.03*	
		For >25 To 50, Add	*99.00*	
		For >50 To 100, Add	*49.50*	
		For >500 To 1,000, Deduct	*-16.46*	
		For >1,000 To 2,000, Deduct	*-25.03*	
		For >2,000 To 5,000, Deduct	*-41.44*	
		For >5,000, Deduct	*-68.60*	
33 01 30 72-0111	LF	19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	355.28	
		For Vinlyester Resin, Add	*227.41*	
		For Epoxy Resin, Add	*26.80*	
		For Up To >10, Add	*253.67*	
		For >10 To 25, Add	*157.24*	
		For >25 To 50, Add	*110.59*	
		For >50 To 100, Add	*55.29*	
		For >500 To 1,000, Deduct	*-18.52*	
		For >1,000 To 2,000, Deduct	*-28.17*	
		For >2,000 To 5,000, Deduct	*-46.59*	
		For >5,000, Deduct	*-77.14*	
33 01 30 72-0112	LF	19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	395.80	
		For Vinlyester Resin, Add	*253.42*	
		For Epoxy Resin, Add	*29.87*	
		For Up To >10, Add	*282.33*	
		For >10 To 25, Add	*174.93*	
		For >25 To 50, Add	*123.06*	
		For >50 To 100, Add	*61.53*	
		For >500 To 1,000, Deduct	*-20.63*	
		For >1,000 To 2,000, Deduct	*-31.37*	
		For >2,000 To 5,000, Deduct	*-51.89*	
		For >5,000, Deduct	*-85.91*	
33 01 30 72-0113	LF	19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	474.25	
		For Vinlyester Resin, Add	*305.43*	
		For Epoxy Resin, Add	*36.00*	
		For Up To >10, Add	*331.93*	
		For >10 To 25, Add	*203.88*	
		For >25 To 50, Add	*144.15*	
		For >50 To 100, Add	*72.07*	
		For >500 To 1,000, Deduct	*-24.66*	
		For >1,000 To 2,000, Deduct	*-37.46*	
		For >2,000 To 5,000, Deduct	*-61.84*	
		For >5,000, Deduct	*-102.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0114	LF	19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	554.00	
		For Vinlyester Resin, Add	*357.45*	
		For Epoxy Resin, Add	*42.13*	
		For Up To >10, Add	*385.40*	
		For >10 To 25, Add	*236.06*	
		For >25 To 50, Add	*167.17*	
		For >50 To 100, Add	*83.58*	
		For >500 To 1,000, Deduct	*-28.78*	
		For >1,000 To 2,000, Deduct	*-43.72*	
		For >2,000 To 5,000, Deduct	*-72.12*	
		For >5,000, Deduct	*-119.47*	
33 01 30 72-0115	LF	19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	635.60	
		For Vinlyester Resin, Add	*409.47*	
		For Epoxy Resin, Add	*48.26*	
		For Up To >10, Add	*444.43*	
		For >10 To 25, Add	*272.86*	
		For >25 To 50, Add	*192.97*	
		For >50 To 100, Add	*96.48*	
		For >500 To 1,000, Deduct	*-33.05*	
		For >1,000 To 2,000, Deduct	*-50.20*	
		For >2,000 To 5,000, Deduct	*-82.86*	
		For >5,000, Deduct	*-137.25*	
33 01 30 72-0116	LF	19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	719.95	
		For Vinlyester Resin, Add	*461.48*	
		For Epoxy Resin, Add	*54.39*	
		For Up To >10, Add	*511.73*	
		For >10 To 25, Add	*316.56*	
		For >25 To 50, Add	*222.90*	
		For >50 To 100, Add	*111.45*	
		For >500 To 1,000, Deduct	*-37.52*	
		For >1,000 To 2,000, Deduct	*-57.03*	
		For >2,000 To 5,000, Deduct	*-94.29*	
		For >5,000, Deduct	*-156.13*	
33 01 30 72-0117	LF	19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	812.43	
		For Vinlyester Resin, Add	*513.49*	
		For Epoxy Resin, Add	*60.52*	
		For Up To >10, Add	*603.39*	
		For >10 To 25, Add	*380.57*	
		For >25 To 50, Add	*265.02*	
		For >50 To 100, Add	*132.51*	
		For >500 To 1,000, Deduct	*-42.59*	
		For >1,000 To 2,000, Deduct	*-64.88*	
		For >2,000 To 5,000, Deduct	*-107.74*	
		For >5,000, Deduct	*-178.26*	
33 01 30 72-0118	LF	19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	915.42	
		For Vinlyester Resin, Add	*565.51*	
		For Epoxy Resin, Add	*66.65*	
		For Up To >10, Add	*726.59*	
		For >10 To 25, Add	*470.84*	
		For >25 To 50, Add	*322.90*	
		For >50 To 100, Add	*161.45*	
		For >500 To 1,000, Deduct	*-48.46*	
		For >1,000 To 2,000, Deduct	*-74.03*	
		For >2,000 To 5,000, Deduct	*-123.83*	
		For >5,000, Deduct	*-204.59*	
33 01 30 72-0119	LF	19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,026.71	
		For Vinlyester Resin, Add	*617.52*	
		For Epoxy Resin, Add	*72.78*	
		For Up To >10, Add	*874.71*	
		For >10 To 25, Add	*581.89*	
		For >25 To 50, Add	*393.24*	
		For >50 To 100, Add	*196.62*	
		For >500 To 1,000, Deduct	*-54.95*	
		For >1,000 To 2,000, Deduct	*-84.23*	
		For >2,000 To 5,000, Deduct	*-142.00*	
		For >5,000, Deduct	*-234.25*	

33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0121	LF	21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	253.55	
		For Vinlyester Resin, Add	*160.33*	
		For Epoxy Resin, Add	*18.90*	
		For Up To >10, Add	*188.05*	
		For >10 To 25, Add	*118.54*	
		For >25 To 50, Add	*82.57*	
		For >50 To 100, Add	*41.29*	
		For >500 To 1,000, Deduct	*-13.29*	
		For >1,000 To 2,000, Deduct	*-20.24*	
		For >2,000 To 5,000, Deduct	*-33.61*	
		For >5,000, Deduct	*-55.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0122	LF	21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	295.65	
		For Vinlyester Resin, Add	*188.34*	
		For Epoxy Resin, Add	*22.20*	
		For Up To >10, Add	*214.33*	
		For >10 To 25, Add	*133.76*	
		For >25 To 50, Add	*93.71*	
		For >50 To 100, Add	*46.86*	
		For >500 To 1,000, Deduct	*-15.45*	
		For >1,000 To 2,000, Deduct	*-23.50*	
		For >2,000 To 5,000, Deduct	*-38.94*	
		For >5,000, Deduct	*-64.45*	
33 01 30 72-0123	LF	21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	338.10	
		For Vinlyester Resin, Add	*216.35*	
		For Epoxy Resin, Add	*25.50*	
		For Up To >10, Add	*241.63*	
		For >10 To 25, Add	*149.84*	
		For >25 To 50, Add	*105.36*	
		For >50 To 100, Add	*52.68*	
		For >500 To 1,000, Deduct	*-17.63*	
		For >1,000 To 2,000, Deduct	*-26.81*	
		For >2,000 To 5,000, Deduct	*-44.35*	
		For >5,000, Deduct	*-73.43*	
33 01 30 72-0124	LF	21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	380.99	
		For Vinlyester Resin, Add	*244.35*	
		For Epoxy Resin, Add	*28.80*	
		For Up To >10, Add	*270.30*	
		For >10 To 25, Add	*167.07*	
		For >25 To 50, Add	*117.69*	
		For >50 To 100, Add	*58.85*	
		For >500 To 1,000, Deduct	*-19.85*	
		For >1,000 To 2,000, Deduct	*-30.17*	
		For >2,000 To 5,000, Deduct	*-49.87*	
		For >5,000, Deduct	*-82.58*	
33 01 30 72-0125	LF	21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	424.48	
		For Vinlyester Resin, Add	*272.36*	
		For Epoxy Resin, Add	*32.10*	
		For Up To >10, Add	*300.72*	
		For >10 To 25, Add	*185.75*	
		For >25 To 50, Add	*130.90*	
		For >50 To 100, Add	*65.45*	
		For >500 To 1,000, Deduct	*-22.11*	
		For >1,000 To 2,000, Deduct	*-33.61*	
		For >2,000 To 5,000, Deduct	*-55.54*	
		For >5,000, Deduct	*-91.97*	
33 01 30 72-0126	LF	21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	509.00	
		For Vinlyester Resin, Add	*328.38*	
		For Epoxy Resin, Add	*38.70*	
		For Up To >10, Add	*354.23*	
		For >10 To 25, Add	*217.00*	
		For >25 To 50, Add	*153.66*	
		For >50 To 100, Add	*76.83*	
		For >500 To 1,000, Deduct	*-26.45*	
		For >1,000 To 2,000, Deduct	*-40.17*	
		For >2,000 To 5,000, Deduct	*-66.27*	
		For >5,000, Deduct	*-109.78*	
33 01 30 72-0127	LF	21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	594.69	
		For Vinlyester Resin, Add	*384.39*	
		For Epoxy Resin, Add	*45.30*	
		For Up To >10, Add	*411.25*	
		For >10 To 25, Add	*251.18*	
		For >25 To 50, Add	*178.17*	
		For >50 To 100, Add	*89.08*	
		For >500 To 1,000, Deduct	*-30.87*	
		For >1,000 To 2,000, Deduct	*-46.88*	
		For >2,000 To 5,000, Deduct	*-77.29*	
		For >5,000, Deduct	*-128.05*	
33 01 30 72-0128	LF	21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	682.23	
		For Vinlyester Resin, Add	*440.41*	
		For Epoxy Resin, Add	*51.90*	
		For Up To >10, Add	*473.82*	
		For >10 To 25, Add	*289.99*	
		For >25 To 50, Add	*205.45*	
		For >50 To 100, Add	*102.73*	
		For >500 To 1,000, Deduct	*-35.44*	
		For >1,000 To 2,000, Deduct	*-53.82*	
		For >2,000 To 5,000, Deduct	*-88.77*	
		For >5,000, Deduct	*-147.06*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0129	LF	21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	772.89	
		For Vinlyester Resin, Add	*496.43*	
		For Epoxy Resin, Add	*58.51*	
		For Up To >10, Add	*545.72*	
		For >10 To 25, Add	*336.57*	
		For >25 To 50, Add	*237.40*	
		For >50 To 100, Add	*118.70*	
		For >500 To 1,000, Deduct	*-40.24*	
		For >1,000 To 2,000, Deduct	*-61.15*	
		For >2,000 To 5,000, Deduct	*-101.03*	
		For >5,000, Deduct	*-167.32*	
33 01 30 72-0130	LF	21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	872.00	
		For Vinlyester Resin, Add	*552.44*	
		For Epoxy Resin, Add	*65.11*	
		For Up To >10, Add	*643.00*	
		For >10 To 25, Add	*404.30*	
		For >25 To 50, Add	*282.04*	
		For >50 To 100, Add	*141.02*	
		For >500 To 1,000, Deduct	*-45.67*	
		For >1,000 To 2,000, Deduct	*-69.54*	
		For >2,000 To 5,000, Deduct	*-115.40*	
		For >5,000, Deduct	*-190.96*	
33 01 30 72-0131	LF	21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	982.08	
		For Vinlyester Resin, Add	*608.45*	
		For Epoxy Resin, Add	*71.71*	
		For Up To >10, Add	*773.19*	
		For >10 To 25, Add	*499.46*	
		For >25 To 50, Add	*343.13*	
		For >50 To 100, Add	*171.57*	
		For >500 To 1,000, Deduct	*-51.93*	
		For >1,000 To 2,000, Deduct	*-79.30*	
		For >2,000 To 5,000, Deduct	*-132.52*	
		For >5,000, Deduct	*-218.99*	
33 01 30 72-0132	LF	21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,101.08	
		For Vinlyester Resin, Add	*664.48*	
		For Epoxy Resin, Add	*78.31*	
		For Up To >10, Add	*930.12*	
		For >10 To 25, Add	*616.89*	
		For >25 To 50, Add	*417.60*	
		For >50 To 100, Add	*208.80*	
		For >500 To 1,000, Deduct	*-58.85*	
		For >1,000 To 2,000, Deduct	*-90.17*	
		For >2,000 To 5,000, Deduct	*-151.87*	
		For >5,000, Deduct	*-250.58*	

33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0134	LF	22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	269.07	
		For Vinlyester Resin, Add	*171.19*	
		For Epoxy Resin, Add	*20.18*	
		For Up To >10, Add	*195.81*	
		For >10 To 25, Add	*122.42*	
		For >25 To 50, Add	*85.68*	
		For >50 To 100, Add	*42.84*	
		For >500 To 1,000, Deduct	*-14.07*	
		For >1,000 To 2,000, Deduct	*-21.41*	
		For >2,000 To 5,000, Deduct	*-35.47*	
		For >5,000, Deduct	*-58.72*	
33 01 30 72-0135	LF	22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	314.03	
		For Vinlyester Resin, Add	*201.20*	
		For Epoxy Resin, Add	*23.71*	
		For Up To >10, Add	*223.52*	
		For >10 To 25, Add	*138.36*	
		For >25 To 50, Add	*97.39*	
		For >50 To 100, Add	*48.69*	
		For >500 To 1,000, Deduct	*-16.37*	
		For >1,000 To 2,000, Deduct	*-24.88*	
		For >2,000 To 5,000, Deduct	*-41.14*	
		For >5,000, Deduct	*-68.13*	
33 01 30 72-0136	LF	22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	359.33	
		For Vinlyester Resin, Add	*231.21*	
		For Epoxy Resin, Add	*27.25*	
		For Up To >10, Add	*252.24*	
		For >10 To 25, Add	*155.15*	
		For >25 To 50, Add	*109.61*	
		For >50 To 100, Add	*54.80*	
		For >500 To 1,000, Deduct	*-18.69*	
		For >1,000 To 2,000, Deduct	*-28.40*	
		For >2,000 To 5,000, Deduct	*-46.89*	
		For >5,000, Deduct	*-77.67*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0137	LF	22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	405.09	
		For Vinlyester Resin, Add	*261.22*	
		For Epoxy Resin, Add	*30.79*	
		For Up To >10, Add	*282.35*	
		For >10 To 25, Add	*173.09*	
		For >25 To 50, Add	*122.51*	
		For >50 To 100, Add	*61.26*	
		For >500 To 1,000, Deduct	*-21.05*	
		For >1,000 To 2,000, Deduct	*-31.98*	
		For >2,000 To 5,000, Deduct	*-52.76*	
		For >5,000, Deduct	*-87.40*	
33 01 30 72-0138	LF	22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	451.42	
		For Vinlyester Resin, Add	*291.22*	
		For Epoxy Resin, Add	*34.32*	
		For Up To >10, Add	*314.19*	
		For >10 To 25, Add	*192.48*	
		For >25 To 50, Add	*136.29*	
		For >50 To 100, Add	*68.15*	
		For >500 To 1,000, Deduct	*-23.46*	
		For >1,000 To 2,000, Deduct	*-35.63*	
		For >2,000 To 5,000, Deduct	*-58.77*	
		For >5,000, Deduct	*-97.36*	
33 01 30 72-0139	LF	22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	541.66	
		For Vinlyester Resin, Add	*351.24*	
		For Epoxy Resin, Add	*41.40*	
		For Up To >10, Add	*370.56*	
		For >10 To 25, Add	*225.17*	
		For >25 To 50, Add	*160.19*	
		For >50 To 100, Add	*80.09*	
		For >500 To 1,000, Deduct	*-28.08*	
		For >1,000 To 2,000, Deduct	*-42.62*	
		For >2,000 To 5,000, Deduct	*-70.18*	
		For >5,000, Deduct	*-116.31*	
33 01 30 72-0140	LF	22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	633.07	
		For Vinlyester Resin, Add	*411.26*	
		For Epoxy Resin, Add	*48.47*	
		For Up To >10, Add	*430.44*	
		For >10 To 25, Add	*260.78*	
		For >25 To 50, Add	*185.84*	
		For >50 To 100, Add	*92.92*	
		For >500 To 1,000, Deduct	*-32.79*	
		For >1,000 To 2,000, Deduct	*-49.76*	
		For >2,000 To 5,000, Deduct	*-81.89*	
		For >5,000, Deduct	*-135.73*	
33 01 30 72-0141	LF	22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	726.33	
		For Vinlyester Resin, Add	*471.28*	
		For Epoxy Resin, Add	*55.54*	
		For Up To >10, Add	*495.87*	
		For >10 To 25, Add	*301.01*	
		For >25 To 50, Add	*214.27*	
		For >50 To 100, Add	*107.14*	
		For >500 To 1,000, Deduct	*-37.64*	
		For >1,000 To 2,000, Deduct	*-57.13*	
		For >2,000 To 5,000, Deduct	*-94.06*	
		For >5,000, Deduct	*-155.88*	
33 01 30 72-0142	LF	22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	822.70	
		For Vinlyester Resin, Add	*531.29*	
		For Epoxy Resin, Add	*62.62*	
		For Up To >10, Add	*570.63*	
		For >10 To 25, Add	*349.02*	
		For >25 To 50, Add	*247.36*	
		For >50 To 100, Add	*123.68*	
		For >500 To 1,000, Deduct	*-42.73*	
		For >1,000 To 2,000, Deduct	*-64.89*	
		For >2,000 To 5,000, Deduct	*-107.01*	
		For >5,000, Deduct	*-177.28*	
33 01 30 72-0143	LF	22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	927.53	
		For Vinlyester Resin, Add	*591.31*	
		For Epoxy Resin, Add	*69.69*	
		For Up To >10, Add	*670.77*	
		For >10 To 25, Add	*418.18*	
		For >25 To 50, Add	*293.15*	
		For >50 To 100, Add	*146.57*	
		For >500 To 1,000, Deduct	*-48.45*	
		For >1,000 To 2,000, Deduct	*-73.70*	
		For >2,000 To 5,000, Deduct	*-122.07*	
		For >5,000, Deduct	*-202.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0144	LF	22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,043.33	
		For Vinlyester Resin, Add	*651.33*	
		For Epoxy Resin, Add	*76.76*	
		For Up To >10, Add	*803.82*	
		For >10 To 25, Add	*514.77*	
		For >25 To 50, Add	*355.38*	
		For >50 To 100, Add	*177.69*	
		For >500 To 1,000, Deduct	*-54.99*	
		For >1,000 To 2,000, Deduct	*-83.89*	
		For >2,000 To 5,000, Deduct	*-139.87*	
		For >5,000, Deduct	*-231.24*	
33 01 30 72-0145	LF	22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,168.03	
		For Vinlyester Resin, Add	*711.34*	
		For Epoxy Resin, Add	*83.84*	
		For Up To >10, Add	*963.59*	
		For >10 To 25, Add	*633.63*	
		For >25 To 50, Add	*430.99*	
		For >50 To 100, Add	*215.49*	
		For >500 To 1,000, Deduct	*-62.20*	
		For >1,000 To 2,000, Deduct	*-95.19*	
		For >2,000 To 5,000, Deduct	*-159.90*	
		For >5,000, Deduct	*-263.97*	

33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0147	LF	24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	285.75	
		For Vinlyester Resin, Add	*181.97*	
		For Epoxy Resin, Add	*21.45*	
		For Up To >10, Add	*207.35*	
		For >10 To 25, Add	*129.47*	
		For >25 To 50, Add	*90.68*	
		For >50 To 100, Add	*45.34*	
		For >500 To 1,000, Deduct	*-14.93*	
		For >1,000 To 2,000, Deduct	*-22.72*	
		For >2,000 To 5,000, Deduct	*-37.64*	
		For >5,000, Deduct	*-62.31*	
33 01 30 72-0148	LF	24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	333.56	
		For Vinlyester Resin, Add	*213.98*	
		For Epoxy Resin, Add	*25.22*	
		For Up To >10, Add	*236.46*	
		For >10 To 25, Add	*146.10*	
		For >25 To 50, Add	*102.94*	
		For >50 To 100, Add	*51.47*	
		For >500 To 1,000, Deduct	*-17.37*	
		For >1,000 To 2,000, Deduct	*-26.41*	
		For >2,000 To 5,000, Deduct	*-43.65*	
		For >5,000, Deduct	*-72.29*	
33 01 30 72-0149	LF	24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	381.83	
		For Vinlyester Resin, Add	*245.99*	
		For Epoxy Resin, Add	*28.99*	
		For Up To >10, Add	*266.94*	
		For >10 To 25, Add	*163.88*	
		For >25 To 50, Add	*115.90*	
		For >50 To 100, Add	*57.95*	
		For >500 To 1,000, Deduct	*-19.85*	
		For >1,000 To 2,000, Deduct	*-30.16*	
		For >2,000 To 5,000, Deduct	*-49.77*	
		For >5,000, Deduct	*-82.45*	
33 01 30 72-0150	LF	24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	430.56	
		For Vinlyester Resin, Add	*278.00*	
		For Epoxy Resin, Add	*32.76*	
		For Up To >10, Add	*298.83*	
		For >10 To 25, Add	*182.84*	
		For >25 To 50, Add	*129.56*	
		For >50 To 100, Add	*64.78*	
		For >500 To 1,000, Deduct	*-22.36*	
		For >1,000 To 2,000, Deduct	*-33.96*	
		For >2,000 To 5,000, Deduct	*-56.01*	
		For >5,000, Deduct	*-92.80*	
33 01 30 72-0151	LF	24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	480.10	
		For Vinlyester Resin, Add	*310.01*	
		For Epoxy Resin, Add	*36.54*	
		For Up To >10, Add	*333.13*	
		For >10 To 25, Add	*203.79*	
		For >25 To 50, Add	*144.42*	
		For >50 To 100, Add	*72.21*	
		For >500 To 1,000, Deduct	*-24.94*	
		For >1,000 To 2,000, Deduct	*-37.87*	
		For >2,000 To 5,000, Deduct	*-62.45*	
		For >5,000, Deduct	*-103.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0152	LF	24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	576.19	
		For Vinlyester Resin, Add	*374.03*	
		For Epoxy Resin, Add	*44.08*	
		For Up To >10, Add	*392.75*	
		For >10 To 25, Add	*238.23*	
		For >25 To 50, Add	*169.66*	
		For >50 To 100, Add	*84.83*	
		For >500 To 1,000, Deduct	*-29.86*	
		For >1,000 To 2,000, Deduct	*-45.31*	
		For >2,000 To 5,000, Deduct	*-74.58*	
		For >5,000, Deduct	*-123.61*	
33 01 30 72-0153	LF	24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	698.94	
		For Vinlyester Resin, Add	*455.83*	
		For Epoxy Resin, Add	*53.72*	
		For Up To >10, Add	*468.87*	
		For >10 To 25, Add	*282.20*	
		For >25 To 50, Add	*201.88*	
		For >50 To 100, Add	*100.94*	
		For >500 To 1,000, Deduct	*-36.14*	
		For >1,000 To 2,000, Deduct	*-54.81*	
		For >2,000 To 5,000, Deduct	*-90.08*	
		For >5,000, Deduct	*-149.34*	
33 01 30 72-0154	LF	24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	772.97	
		For Vinlyester Resin, Add	*502.06*	
		For Epoxy Resin, Add	*59.17*	
		For Up To >10, Add	*525.84*	
		For >10 To 25, Add	*318.66*	
		For >25 To 50, Add	*227.06*	
		For >50 To 100, Add	*113.53*	
		For >500 To 1,000, Deduct	*-40.04*	
		For >1,000 To 2,000, Deduct	*-60.76*	
		For >2,000 To 5,000, Deduct	*-100.00*	
		For >5,000, Deduct	*-165.74*	
33 01 30 72-0155	LF	24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	875.64	
		For Vinlyester Resin, Add	*566.08*	
		For Epoxy Resin, Add	*66.72*	
		For Up To >10, Add	*605.20*	
		For >10 To 25, Add	*369.55*	
		For >25 To 50, Add	*262.16*	
		For >50 To 100, Add	*131.08*	
		For >500 To 1,000, Deduct	*-45.46*	
		For >1,000 To 2,000, Deduct	*-69.02*	
		For >2,000 To 5,000, Deduct	*-113.78*	
		For >5,000, Deduct	*-188.52*	
33 01 30 72-0156	LF	24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	987.09	
		For Vinlyester Resin, Add	*630.10*	
		For Epoxy Resin, Add	*74.26*	
		For Up To >10, Add	*710.92*	
		For >10 To 25, Add	*442.41*	
		For >25 To 50, Add	*310.45*	
		For >50 To 100, Add	*155.23*	
		For >500 To 1,000, Deduct	*-51.53*	
		For >1,000 To 2,000, Deduct	*-78.38*	
		For >2,000 To 5,000, Deduct	*-129.75*	
		For >5,000, Deduct	*-214.81*	
33 01 30 72-0157	LF	24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,110.13	
		For Vinlyester Resin, Add	*694.12*	
		For Epoxy Resin, Add	*81.81*	
		For Up To >10, Add	*851.39*	
		For >10 To 25, Add	*544.23*	
		For >25 To 50, Add	*376.12*	
		For >50 To 100, Add	*188.06*	
		For >500 To 1,000, Deduct	*-58.47*	
		For >1,000 To 2,000, Deduct	*-89.19*	
		For >2,000 To 5,000, Deduct	*-148.62*	
		For >5,000, Deduct	*-245.73*	
33 01 30 72-0158	LF	24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,242.39	
		For Vinlyester Resin, Add	*758.14*	
		For Epoxy Resin, Add	*89.35*	
		For Up To >10, Add	*1,019.55*	
		For >10 To 25, Add	*669.11*	
		For >25 To 50, Add	*455.62*	
		For >50 To 100, Add	*227.81*	
		For >500 To 1,000, Deduct	*-66.10*	
		For >1,000 To 2,000, Deduct	*-101.15*	
		For >2,000 To 5,000, Deduct	*-169.80*	
		For >5,000, Deduct	*-280.35*	

33 01 30 72-0159 25.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0160	LF	25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	351.71	
		For Vinlyester Resin, Add	*226.69*	
		For Epoxy Resin, Add	*26.72*	
		For Up To >10, Add	*245.53*	
		For >10 To 25, Add	*150.64*	
		For >25 To 50, Add	*106.57*	
		For >50 To 100, Add	*53.29*	
		For >500 To 1,000, Deduct	*-18.28*	
		For >1,000 To 2,000, Deduct	*-27.77*	
		For >2,000 To 5,000, Deduct	*-45.83*	
		For >5,000, Deduct	*-75.92*	
33 01 30 72-0161	LF	25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	402.83	
		For Vinlyester Resin, Add	*260.69*	
		For Epoxy Resin, Add	*30.72*	
		For Up To >10, Add	*277.44*	
		For >10 To 25, Add	*169.13*	
		For >25 To 50, Add	*120.10*	
		For >50 To 100, Add	*60.05*	
		For >500 To 1,000, Deduct	*-20.90*	
		For >1,000 To 2,000, Deduct	*-31.73*	
		For >2,000 To 5,000, Deduct	*-52.29*	
		For >5,000, Deduct	*-86.65*	
33 01 30 72-0162	LF	25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	454.43	
		For Vinlyester Resin, Add	*294.71*	
		For Epoxy Resin, Add	*34.73*	
		For Up To >10, Add	*310.77*	
		For >10 To 25, Add	*188.80*	
		For >25 To 50, Add	*134.33*	
		For >50 To 100, Add	*67.17*	
		For >500 To 1,000, Deduct	*-23.56*	
		For >1,000 To 2,000, Deduct	*-35.75*	
		For >2,000 To 5,000, Deduct	*-58.88*	
		For >5,000, Deduct	*-97.57*	
33 01 30 72-0163	LF	25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	506.82	
		For Vinlyester Resin, Add	*328.71*	
		For Epoxy Resin, Add	*38.74*	
		For Up To >10, Add	*346.49*	
		For >10 To 25, Add	*210.47*	
		For >25 To 50, Add	*149.76*	
		For >50 To 100, Add	*74.88*	
		For >500 To 1,000, Deduct	*-26.27*	
		For >1,000 To 2,000, Deduct	*-39.87*	
		For >2,000 To 5,000, Deduct	*-65.66*	
		For >5,000, Deduct	*-108.81*	
33 01 30 72-0164	LF	25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	608.62	
		For Vinlyester Resin, Add	*396.73*	
		For Epoxy Resin, Add	*46.76*	
		For Up To >10, Add	*408.96*	
		For >10 To 25, Add	*246.34*	
		For >25 To 50, Add	*176.14*	
		For >50 To 100, Add	*88.07*	
		For >500 To 1,000, Deduct	*-31.48*	
		For >1,000 To 2,000, Deduct	*-47.74*	
		For >2,000 To 5,000, Deduct	*-78.48*	
		For >5,000, Deduct	*-130.10*	
33 01 30 72-0165	LF	25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	711.69	
		For Vinlyester Resin, Add	*464.75*	
		For Epoxy Resin, Add	*54.77*	
		For Up To >10, Add	*475.25*	
		For >10 To 25, Add	*285.38*	
		For >25 To 50, Add	*204.43*	
		For >50 To 100, Add	*102.21*	
		For >500 To 1,000, Deduct	*-36.78*	
		For >1,000 To 2,000, Deduct	*-55.76*	
		For >2,000 To 5,000, Deduct	*-91.61*	
		For >5,000, Deduct	*-151.89*	
33 01 30 72-0166	LF	25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	816.85	
		For Vinlyester Resin, Add	*532.78*	
		For Epoxy Resin, Add	*62.79*	
		For Up To >10, Add	*547.78*	
		For >10 To 25, Add	*329.63*	
		For >25 To 50, Add	*235.83*	
		For >50 To 100, Add	*117.92*	
		For >500 To 1,000, Deduct	*-42.24*	
		For >1,000 To 2,000, Deduct	*-64.05*	
		For >2,000 To 5,000, Deduct	*-105.27*	
		For >5,000, Deduct	*-174.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0167	LF	25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	925.22	
		For Vinlyester Resin, Add	*600.79*	
		For Epoxy Resin, Add	*70.81*	
		For Up To >10, Add	*629.99*	
		For >10 To 25, Add	*381.94*	
		For >25 To 50, Add	*272.08*	
		For >50 To 100, Add	*136.04*	
		For >500 To 1,000, Deduct	*-47.93*	
		For >1,000 To 2,000, Deduct	*-72.74*	
		For >2,000 To 5,000, Deduct	*-119.73*	
		For >5,000, Deduct	*-198.43*	
33 01 30 72-0168	LF	25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,042.40	
		For Vinlyester Resin, Add	*668.82*	
		For Epoxy Resin, Add	*78.82*	
		For Up To >10, Add	*738.58*	
		For >10 To 25, Add	*456.24*	
		For >25 To 50, Add	*321.52*	
		For >50 To 100, Add	*160.76*	
		For >500 To 1,000, Deduct	*-54.29*	
		For >1,000 To 2,000, Deduct	*-82.53*	
		For >2,000 To 5,000, Deduct	*-136.39*	
		For >5,000, Deduct	*-225.87*	
33 01 30 72-0169	LF	25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,171.15	
		For Vinlyester Resin, Add	*736.83*	
		For Epoxy Resin, Add	*86.84*	
		For Up To >10, Add	*881.90*	
		For >10 To 25, Add	*559.48*	
		For >25 To 50, Add	*388.32*	
		For >50 To 100, Add	*194.16*	
		For >500 To 1,000, Deduct	*-61.52*	
		For >1,000 To 2,000, Deduct	*-93.76*	
		For >2,000 To 5,000, Deduct	*-155.95*	
		For >5,000, Deduct	*-257.94*	
33 01 30 72-0170	LF	25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,309.13	
		For Vinlyester Resin, Add	*804.85*	
		For Epoxy Resin, Add	*94.86*	
		For Up To >10, Add	*1,052.92*	
		For >10 To 25, Add	*685.80*	
		For >25 To 50, Add	*468.97*	
		For >50 To 100, Add	*234.48*	
		For >500 To 1,000, Deduct	*-69.44*	
		For >1,000 To 2,000, Deduct	*-106.15*	
		For >2,000 To 5,000, Deduct	*-177.81*	
		For >5,000, Deduct	*-293.69*	

33 01 30 72-0171 27mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0172	LF	27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	371.13	
		For Vinlyester Resin, Add	*239.31*	
		For Epoxy Resin, Add	*28.20*	
		For Up To >10, Add	*258.72*	
		For >10 To 25, Add	*158.62*	
		For >25 To 50, Add	*112.26*	
		For >50 To 100, Add	*56.13*	
		For >500 To 1,000, Deduct	*-19.29*	
		For >1,000 To 2,000, Deduct	*-29.30*	
		For >2,000 To 5,000, Deduct	*-48.34*	
		For >5,000, Deduct	*-80.08*	
33 01 30 72-0173	LF	27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	425.24	
		For Vinlyester Resin, Add	*275.32*	
		For Epoxy Resin, Add	*32.45*	
		For Up To >10, Add	*292.42*	
		For >10 To 25, Add	*178.13*	
		For >25 To 50, Add	*126.54*	
		For >50 To 100, Add	*63.27*	
		For >500 To 1,000, Deduct	*-22.06*	
		For >1,000 To 2,000, Deduct	*-33.49*	
		For >2,000 To 5,000, Deduct	*-55.18*	
		For >5,000, Deduct	*-91.43*	
33 01 30 72-0174	LF	27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	479.92	
		For Vinlyester Resin, Add	*311.33*	
		For Epoxy Resin, Add	*36.69*	
		For Up To >10, Add	*327.86*	
		For >10 To 25, Add	*199.09*	
		For >25 To 50, Add	*141.69*	
		For >50 To 100, Add	*70.85*	
		For >500 To 1,000, Deduct	*-24.88*	
		For >1,000 To 2,000, Deduct	*-37.75*	
		For >2,000 To 5,000, Deduct	*-62.16*	
		For >5,000, Deduct	*-103.02*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0175	LF	27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	535.28	
		For Vinlyester Resin, Add	*347.34*	
		For Epoxy Resin, Add	*40.94*	
		For Up To >10, Add	*365.34*	
		For >10 To 25, Add	*221.75*	
		For >25 To 50, Add	*157.86*	
		For >50 To 100, Add	*78.93*	
		For >500 To 1,000, Deduct	*-27.74*	
		For >1,000 To 2,000, Deduct	*-42.10*	
		For >2,000 To 5,000, Deduct	*-69.31*	
		For >5,000, Deduct	*-114.87*	
33 01 30 72-0176	LF	27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	643.03	
		For Vinlyester Resin, Add	*419.36*	
		For Epoxy Resin, Add	*49.42*	
		For Up To >10, Add	*431.37*	
		For >10 To 25, Add	*259.62*	
		For >25 To 50, Add	*185.73*	
		For >50 To 100, Add	*92.86*	
		For >500 To 1,000, Deduct	*-33.25*	
		For >1,000 To 2,000, Deduct	*-50.42*	
		For >2,000 To 5,000, Deduct	*-82.88*	
		For >5,000, Deduct	*-137.39*	
33 01 30 72-0177	LF	27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	752.16	
		For Vinlyester Resin, Add	*491.38*	
		For Epoxy Resin, Add	*57.91*	
		For Up To >10, Add	*501.56*	
		For >10 To 25, Add	*300.97*	
		For >25 To 50, Add	*215.68*	
		For >50 To 100, Add	*107.84*	
		For >500 To 1,000, Deduct	*-38.86*	
		For >1,000 To 2,000, Deduct	*-58.92*	
		For >2,000 To 5,000, Deduct	*-96.78*	
		For >5,000, Deduct	*-160.47*	
33 01 30 72-0178	LF	27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	863.38	
		For Vinlyester Resin, Add	*563.40*	
		For Epoxy Resin, Add	*66.40*	
		For Up To >10, Add	*577.99*	
		For >10 To 25, Add	*347.52*	
		For >25 To 50, Add	*248.75*	
		For >50 To 100, Add	*124.38*	
		For >500 To 1,000, Deduct	*-44.63*	
		For >1,000 To 2,000, Deduct	*-67.68*	
		For >2,000 To 5,000, Deduct	*-111.21*	
		For >5,000, Deduct	*-184.38*	
33 01 30 72-0179	LF	27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	977.82	
		For Vinlyester Resin, Add	*635.43*	
		For Epoxy Resin, Add	*74.89*	
		For Up To >10, Add	*664.09*	
		For >10 To 25, Add	*402.11*	
		For >25 To 50, Add	*286.66*	
		For >50 To 100, Add	*143.33*	
		For >500 To 1,000, Deduct	*-50.64*	
		For >1,000 To 2,000, Deduct	*-76.84*	
		For >2,000 To 5,000, Deduct	*-126.45*	
		For >5,000, Deduct	*-209.58*	
33 01 30 72-0180	LF	27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,101.86	
		For Vinlyester Resin, Add	*707.44*	
		For Epoxy Resin, Add	*83.38*	
		For Up To >10, Add	*779.01*	
		For >10 To 25, Add	*480.73*	
		For >25 To 50, Add	*338.97*	
		For >50 To 100, Add	*169.49*	
		For >500 To 1,000, Deduct	*-57.37*	
		For >1,000 To 2,000, Deduct	*-87.20*	
		For >2,000 To 5,000, Deduct	*-144.08*	
		For >5,000, Deduct	*-238.62*	
33 01 30 72-0181	LF	27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,237.95	
		For Vinlyester Resin, Add	*779.46*	
		For Epoxy Resin, Add	*91.87*	
		For Up To >10, Add	*930.05*	
		For >10 To 25, Add	*589.46*	
		For >25 To 50, Add	*409.35*	
		For >50 To 100, Add	*204.67*	
		For >500 To 1,000, Deduct	*-65.01*	
		For >1,000 To 2,000, Deduct	*-99.07*	
		For >2,000 To 5,000, Deduct	*-164.73*	
		For >5,000, Deduct	*-272.48*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0182	LF	27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,383.73	
		For Vinlyester Resin, Add	*851.49*	
		For Epoxy Resin, Add	*100.35*	
		For Up To >10, Add	*1,110.17*	
		For >10 To 25, Add	*722.40*	
		For >25 To 50, Add	*494.26*	
		For >50 To 100, Add	*247.13*	
		For >500 To 1,000, Deduct	*-73.37*	
		For >1,000 To 2,000, Deduct	*-112.15*	
		For >2,000 To 5,000, Deduct	*-187.80*	
		For >5,000, Deduct	*-310.21*	

33 01 30 72-0183 28.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0184	LF	28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	446.02	
		For Vinlyester Resin, Add	*289.87*	
		For Epoxy Resin, Add	*34.16*	
		For Up To >10, Add	*302.81*	
		For >10 To 25, Add	*183.33*	
		For >25 To 50, Add	*130.70*	
		For >50 To 100, Add	*65.35*	
		For >500 To 1,000, Deduct	*-23.10*	
		For >1,000 To 2,000, Deduct	*-35.05*	
		For >2,000 To 5,000, Deduct	*-57.67*	
		For >5,000, Deduct	*-95.59*	
33 01 30 72-0185	LF	28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	503.56	
		For Vinlyester Resin, Add	*327.88*	
		For Epoxy Resin, Add	*38.64*	
		For Up To >10, Add	*339.68*	
		For >10 To 25, Add	*205.00*	
		For >25 To 50, Add	*146.42*	
		For >50 To 100, Add	*73.21*	
		For >500 To 1,000, Deduct	*-26.06*	
		For >1,000 To 2,000, Deduct	*-39.53*	
		For >2,000 To 5,000, Deduct	*-65.00*	
		For >5,000, Deduct	*-107.74*	
33 01 30 72-0186	LF	28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	561.78	
		For Vinlyester Resin, Add	*365.89*	
		For Epoxy Resin, Add	*43.12*	
		For Up To >10, Add	*378.59*	
		For >10 To 25, Add	*228.38*	
		For >25 To 50, Add	*163.16*	
		For >50 To 100, Add	*81.58*	
		For >500 To 1,000, Deduct	*-29.07*	
		For >1,000 To 2,000, Deduct	*-44.09*	
		For >2,000 To 5,000, Deduct	*-72.49*	
		For >5,000, Deduct	*-120.17*	
33 01 30 72-0187	LF	28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	709.54	
		For Vinlyester Resin, Add	*464.38*	
		For Epoxy Resin, Add	*54.73*	
		For Up To >10, Add	*470.12*	
		For >10 To 25, Add	*281.20*	
		For >25 To 50, Add	*201.89*	
		For >50 To 100, Add	*100.95*	
		For >500 To 1,000, Deduct	*-36.63*	
		For >1,000 To 2,000, Deduct	*-55.52*	
		For >2,000 To 5,000, Deduct	*-91.14*	
		For >5,000, Deduct	*-151.14*	
33 01 30 72-0188	LF	28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	790.09	
		For Vinlyester Resin, Add	*517.93*	
		For Epoxy Resin, Add	*61.04*	
		For Up To >10, Add	*520.52*	
		For >10 To 25, Add	*310.45*	
		For >25 To 50, Add	*223.27*	
		For >50 To 100, Add	*111.63*	
		For >500 To 1,000, Deduct	*-40.76*	
		For >1,000 To 2,000, Deduct	*-61.77*	
		For >2,000 To 5,000, Deduct	*-101.34*	
		For >5,000, Deduct	*-168.06*	
33 01 30 72-0189	LF	28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	907.03	
		For Vinlyester Resin, Add	*593.96*	
		For Epoxy Resin, Add	*70.00*	
		For Up To >10, Add	*599.82*	
		For >10 To 25, Add	*358.43*	
		For >25 To 50, Add	*257.48*	
		For >50 To 100, Add	*128.74*	
		For >500 To 1,000, Deduct	*-46.81*	
		For >1,000 To 2,000, Deduct	*-70.95*	
		For >2,000 To 5,000, Deduct	*-116.45*	
		For >5,000, Deduct	*-193.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0190	LF	28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,027.42	
		For Vinlyester Resin, Add	*669.98*	
		For Epoxy Resin, Add	*78.96*	
		For Up To >10, Add	*689.49*	
		For >10 To 25, Add	*415.05*	
		For >25 To 50, Add	*296.89*	
		For >50 To 100, Add	*148.44*	
		For >500 To 1,000, Deduct	*-53.13*	
		For >1,000 To 2,000, Deduct	*-80.57*	
		For >2,000 To 5,000, Deduct	*-132.43*	
		For >5,000, Deduct	*-219.55*	
33 01 30 72-0191	LF	28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,156.94	
		For Vinlyester Resin, Add	*746.00*	
		For Epoxy Resin, Add	*87.92*	
		For Up To >10, Add	*806.55*	
		For >10 To 25, Add	*494.50*	
		For >25 To 50, Add	*349.99*	
		For >50 To 100, Add	*174.99*	
		For >500 To 1,000, Deduct	*-60.13*	
		For >1,000 To 2,000, Deduct	*-91.33*	
		For >2,000 To 5,000, Deduct	*-150.69*	
		For >5,000, Deduct	*-249.63*	
33 01 30 72-0192	LF	28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,298.74	
		For Vinlyester Resin, Add	*822.02*	
		For Epoxy Resin, Add	*96.88*	
		For Up To >10, Add	*960.45*	
		For >10 To 25, Add	*604.65*	
		For >25 To 50, Add	*421.51*	
		For >50 To 100, Add	*210.75*	
		For >500 To 1,000, Deduct	*-68.05*	
		For >1,000 To 2,000, Deduct	*-103.63*	
		For >2,000 To 5,000, Deduct	*-172.02*	
		For >5,000, Deduct	*-284.63*	
33 01 30 72-0193	LF	28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,450.24	
		For Vinlyester Resin, Add	*898.04*	
		For Epoxy Resin, Add	*105.84*	
		For Up To >10, Add	*1,143.42*	
		For >10 To 25, Add	*739.03*	
		For >25 To 50, Add	*507.56*	
		For >50 To 100, Add	*253.78*	
		For >500 To 1,000, Deduct	*-76.70*	
		For >1,000 To 2,000, Deduct	*-117.13*	
		For >2,000 To 5,000, Deduct	*-195.78*	
		For >5,000, Deduct	*-323.51*	

33 01 30 72-0194 30mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0195	LF	30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	468.31	
		For Vinlyester Resin, Add	*304.34*	
		For Epoxy Resin, Add	*35.87*	
		For Up To >10, Add	*318.01*	
		For >10 To 25, Add	*192.54*	
		For >25 To 50, Add	*137.26*	
		For >50 To 100, Add	*68.63*	
		For >500 To 1,000, Deduct	*-24.25*	
		For >1,000 To 2,000, Deduct	*-36.80*	
		For >2,000 To 5,000, Deduct	*-60.56*	
		For >5,000, Deduct	*-100.37*	
33 01 30 72-0196	LF	30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	528.81	
		For Vinlyester Resin, Add	*344.35*	
		For Epoxy Resin, Add	*40.58*	
		For Up To >10, Add	*356.61*	
		For >10 To 25, Add	*215.18*	
		For >25 To 50, Add	*153.71*	
		For >50 To 100, Add	*76.85*	
		For >500 To 1,000, Deduct	*-27.36*	
		For >1,000 To 2,000, Deduct	*-41.50*	
		For >2,000 To 5,000, Deduct	*-68.25*	
		For >5,000, Deduct	*-113.14*	
33 01 30 72-0197	LF	30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	590.13	
		For Vinlyester Resin, Add	*384.36*	
		For Epoxy Resin, Add	*45.30*	
		For Up To >10, Add	*397.69*	
		For >10 To 25, Add	*239.90*	
		For >25 To 50, Add	*171.39*	
		For >50 To 100, Add	*85.70*	
		For >500 To 1,000, Deduct	*-30.53*	
		For >1,000 To 2,000, Deduct	*-46.31*	
		For >2,000 To 5,000, Deduct	*-76.15*	
		For >5,000, Deduct	*-126.24*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0198	LF	30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	709.54	
		For Vinlyester Resin, Add	*464.38*	
		For Epoxy Resin, Add	*54.73*	
		For Up To >10, Add	*470.12*	
		For >10 To 25, Add	*281.20*	
		For >25 To 50, Add	*201.89*	
		For >50 To 100, Add	*100.95*	
		For >500 To 1,000, Deduct	*-36.63*	
		For >1,000 To 2,000, Deduct	*-55.52*	
		For >2,000 To 5,000, Deduct	*-91.14*	
		For >5,000, Deduct	*-151.14*	
33 01 30 72-0199	LF	30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	830.45	
		For Vinlyester Resin, Add	*544.40*	
		For Epoxy Resin, Add	*64.16*	
		For Up To >10, Add	*547.05*	
		For >10 To 25, Add	*326.26*	
		For >25 To 50, Add	*234.64*	
		For >50 To 100, Add	*117.32*	
		For >500 To 1,000, Deduct	*-42.84*	
		For >1,000 To 2,000, Deduct	*-64.92*	
		For >2,000 To 5,000, Deduct	*-106.51*	
		For >5,000, Deduct	*-176.64*	
33 01 30 72-0200	LF	30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	953.55	
		For Vinlyester Resin, Add	*624.43*	
		For Epoxy Resin, Add	*73.59*	
		For Up To >10, Add	*630.55*	
		For >10 To 25, Add	*376.79*	
		For >25 To 50, Add	*270.67*	
		For >50 To 100, Add	*135.34*	
		For >500 To 1,000, Deduct	*-49.22*	
		For >1,000 To 2,000, Deduct	*-74.59*	
		For >2,000 To 5,000, Deduct	*-122.42*	
		For >5,000, Deduct	*-203.01*	
33 01 30 72-0201	LF	30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,080.14	
		For Vinlyester Resin, Add	*704.45*	
		For Epoxy Resin, Add	*83.02*	
		For Up To >10, Add	*724.52*	
		For >10 To 25, Add	*436.04*	
		For >25 To 50, Add	*311.94*	
		For >50 To 100, Add	*155.97*	
		For >500 To 1,000, Deduct	*-55.85*	
		For >1,000 To 2,000, Deduct	*-84.70*	
		For >2,000 To 5,000, Deduct	*-139.21*	
		For >5,000, Deduct	*-230.78*	
33 01 30 72-0202	LF	30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,216.54	
		For Vinlyester Resin, Add	*784.48*	
		For Epoxy Resin, Add	*92.46*	
		For Up To >10, Add	*847.92*	
		For >10 To 25, Add	*519.82*	
		For >25 To 50, Add	*367.93*	
		For >50 To 100, Add	*183.96*	
		For >500 To 1,000, Deduct	*-63.22*	
		For >1,000 To 2,000, Deduct	*-96.03*	
		For >2,000 To 5,000, Deduct	*-158.45*	
		For >5,000, Deduct	*-262.48*	
33 01 30 72-0203	LF	30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,365.67	
		For Vinlyester Resin, Add	*864.50*	
		For Epoxy Resin, Add	*101.89*	
		For Up To >10, Add	*1,009.51*	
		For >10 To 25, Add	*635.43*	
		For >25 To 50, Add	*443.01*	
		For >50 To 100, Add	*221.50*	
		For >500 To 1,000, Deduct	*-71.55*	
		For >1,000 To 2,000, Deduct	*-108.96*	
		For >2,000 To 5,000, Deduct	*-180.87*	
		For >5,000, Deduct	*-299.27*	
33 01 30 72-0204	LF	30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,524.96	
		For Vinlyester Resin, Add	*944.52*	
		For Epoxy Resin, Add	*111.32*	
		For Up To >10, Add	*1,201.61*	
		For >10 To 25, Add	*776.45*	
		For >25 To 50, Add	*533.34*	
		For >50 To 100, Add	*266.67*	
		For >500 To 1,000, Deduct	*-80.64*	
		For >1,000 To 2,000, Deduct	*-123.15*	
		For >2,000 To 5,000, Deduct	*-205.83*	
		For >5,000, Deduct	*-340.12*	

33 01 30 72-0205 31.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0206	LF	31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	488.87	
		For Vinlyester Resin, Add	*318.73*	
		For Epoxy Resin, Add	*37.56*	
		For Up To >10, Add	*328.29*	
		For >10 To 25, Add	*197.68*	
		For >25 To 50, Add	*141.38*	
		For >50 To 100, Add	*70.69*	
		For >500 To 1,000, Deduct	*-25.28*	
		For >1,000 To 2,000, Deduct	*-38.34*	
		For >2,000 To 5,000, Deduct	*-63.02*	
		For >5,000, Deduct	*-104.48*	
33 01 30 72-0207	LF	31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	552.22	
		For Vinlyester Resin, Add	*360.74*	
		For Epoxy Resin, Add	*42.52*	
		For Up To >10, Add	*368.31*	
		For >10 To 25, Add	*221.04*	
		For >25 To 50, Add	*158.39*	
		For >50 To 100, Add	*79.19*	
		For >500 To 1,000, Deduct	*-28.53*	
		For >1,000 To 2,000, Deduct	*-43.26*	
		For >2,000 To 5,000, Deduct	*-71.06*	
		For >5,000, Deduct	*-117.82*	
33 01 30 72-0208	LF	31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	616.41	
		For Vinlyester Resin, Add	*402.75*	
		For Epoxy Resin, Add	*47.47*	
		For Up To >10, Add	*410.83*	
		For >10 To 25, Add	*246.47*	
		For >25 To 50, Add	*176.65*	
		For >50 To 100, Add	*88.32*	
		For >500 To 1,000, Deduct	*-31.85*	
		For >1,000 To 2,000, Deduct	*-48.28*	
		For >2,000 To 5,000, Deduct	*-79.31*	
		For >5,000, Deduct	*-131.49*	
33 01 30 72-0209	LF	31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	741.53	
		For Vinlyester Resin, Add	*486.77*	
		For Epoxy Resin, Add	*57.37*	
		For Up To >10, Add	*486.12*	
		For >10 To 25, Add	*289.20*	
		For >25 To 50, Add	*208.29*	
		For >50 To 100, Add	*104.14*	
		For >500 To 1,000, Deduct	*-38.23*	
		For >1,000 To 2,000, Deduct	*-57.92*	
		For >2,000 To 5,000, Deduct	*-94.98*	
		For >5,000, Deduct	*-157.53*	
33 01 30 72-0210	LF	31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	868.16	
		For Vinlyester Resin, Add	*570.80*	
		For Epoxy Resin, Add	*67.27*	
		For Up To >10, Add	*565.91*	
		For >10 To 25, Add	*335.68*	
		For >25 To 50, Add	*242.18*	
		For >50 To 100, Add	*121.09*	
		For >500 To 1,000, Deduct	*-44.73*	
		For >1,000 To 2,000, Deduct	*-67.75*	
		For >2,000 To 5,000, Deduct	*-111.03*	
		For >5,000, Deduct	*-184.18*	
33 01 30 72-0211	LF	31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	996.97	
		For Vinlyester Resin, Add	*654.82*	
		For Epoxy Resin, Add	*77.18*	
		For Up To >10, Add	*652.26*	
		For >10 To 25, Add	*387.64*	
		For >25 To 50, Add	*279.36*	
		For >50 To 100, Add	*139.68*	
		For >500 To 1,000, Deduct	*-51.39*	
		For >1,000 To 2,000, Deduct	*-77.85*	
		For >2,000 To 5,000, Deduct	*-127.63*	
		For >5,000, Deduct	*-211.70*	
33 01 30 72-0212	LF	31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,129.27	
		For Vinlyester Resin, Add	*738.84*	
		For Epoxy Resin, Add	*87.08*	
		For Up To >10, Add	*749.09*	
		For >10 To 25, Add	*448.32*	
		For >25 To 50, Add	*321.77*	
		For >50 To 100, Add	*160.88*	
		For >500 To 1,000, Deduct	*-58.31*	
		For >1,000 To 2,000, Deduct	*-88.38*	
		For >2,000 To 5,000, Deduct	*-145.10*	
		For >5,000, Deduct	*-240.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0213	LF	31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,271.39	
		For Vinlyester Resin, Add	*822.87*	
		For Epoxy Resin, Add	*96.98*	
		For Up To >10, Add	*875.35*	
		For >10 To 25, Add	*533.53*	
		For >25 To 50, Add	*378.90*	
		For >50 To 100, Add	*189.45*	
		For >500 To 1,000, Deduct	*-65.97*	
		For >1,000 To 2,000, Deduct	*-100.15*	
		For >2,000 To 5,000, Deduct	*-165.03*	
		For >5,000, Deduct	*-273.45*	
33 01 30 72-0214	LF	31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,426.24	
		For Vinlyester Resin, Add	*906.90*	
		For Epoxy Resin, Add	*106.88*	
		For Up To >10, Add	*1,039.80*	
		For >10 To 25, Add	*650.57*	
		For >25 To 50, Add	*455.12*	
		For >50 To 100, Add	*227.56*	
		For >500 To 1,000, Deduct	*-74.58*	
		For >1,000 To 2,000, Deduct	*-113.50*	
		For >2,000 To 5,000, Deduct	*-188.14*	
		For >5,000, Deduct	*-311.38*	
33 01 30 72-0215	LF	31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,600.92	
		For Vinlyester Resin, Add	*997.69*	
		For Epoxy Resin, Add	*117.58*	
		For Up To >10, Add	*1,239.59*	
		For >10 To 25, Add	*795.44*	
		For >25 To 50, Add	*548.53*	
		For >50 To 100, Add	*274.26*	
		For >500 To 1,000, Deduct	*-84.44*	
		For >1,000 To 2,000, Deduct	*-128.85*	
		For >2,000 To 5,000, Deduct	*-214.94*	
		For >5,000, Deduct	*-355.31*	

33 01 30 72-0216 33mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0217	LF	33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	511.04	
		For Vinlyester Resin, Add	*333.04*	
		For Epoxy Resin, Add	*39.25*	
		For Up To >10, Add	*343.70*	
		For >10 To 25, Add	*207.12*	
		For >25 To 50, Add	*148.06*	
		For >50 To 100, Add	*74.03*	
		For >500 To 1,000, Deduct	*-26.43*	
		For >1,000 To 2,000, Deduct	*-40.09*	
		For >2,000 To 5,000, Deduct	*-65.91*	
		For >5,000, Deduct	*-109.26*	
33 01 30 72-0218	LF	33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	577.37	
		For Vinlyester Resin, Add	*377.05*	
		For Epoxy Resin, Add	*44.44*	
		For Up To >10, Add	*385.51*	
		For >10 To 25, Add	*231.49*	
		For >25 To 50, Add	*165.82*	
		For >50 To 100, Add	*82.91*	
		For >500 To 1,000, Deduct	*-29.84*	
		For >1,000 To 2,000, Deduct	*-45.24*	
		For >2,000 To 5,000, Deduct	*-74.32*	
		For >5,000, Deduct	*-123.22*	
33 01 30 72-0219	LF	33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	644.53	
		For Vinlyester Resin, Add	*421.06*	
		For Epoxy Resin, Add	*49.63*	
		For Up To >10, Add	*429.79*	
		For >10 To 25, Add	*257.91*	
		For >25 To 50, Add	*184.82*	
		For >50 To 100, Add	*92.41*	
		For >500 To 1,000, Deduct	*-33.30*	
		For >1,000 To 2,000, Deduct	*-50.49*	
		For >2,000 To 5,000, Deduct	*-82.93*	
		For >5,000, Deduct	*-137.51*	
33 01 30 72-0220	LF	33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	775.72	
		For Vinlyester Resin, Add	*509.09*	
		For Epoxy Resin, Add	*60.00*	
		For Up To >10, Add	*508.99*	
		For >10 To 25, Add	*302.94*	
		For >25 To 50, Add	*218.13*	
		For >50 To 100, Add	*109.06*	
		For >500 To 1,000, Deduct	*-40.00*	
		For >1,000 To 2,000, Deduct	*-60.60*	
		For >2,000 To 5,000, Deduct	*-99.38*	
		For >5,000, Deduct	*-164.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0221	LF	33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	908.41	
		For Vinlyester Resin, Add	*597.11*	
		For Epoxy Resin, Add	*70.37*	
		For Up To >10, Add	*592.68*	
		For >10 To 25, Add	*351.73*	
		For >25 To 50, Add	*253.69*	
		For >50 To 100, Add	*126.84*	
		For >500 To 1,000, Deduct	*-46.81*	
		For >1,000 To 2,000, Deduct	*-70.90*	
		For >2,000 To 5,000, Deduct	*-116.21*	
		For >5,000, Deduct	*-192.76*	
33 01 30 72-0222	LF	33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,043.29	
		For Vinlyester Resin, Add	*685.14*	
		For Epoxy Resin, Add	*80.75*	
		For Up To >10, Add	*682.95*	
		For >10 To 25, Add	*405.99*	
		For >25 To 50, Add	*292.53*	
		For >50 To 100, Add	*146.27*	
		For >500 To 1,000, Deduct	*-53.78*	
		For >1,000 To 2,000, Deduct	*-81.47*	
		For >2,000 To 5,000, Deduct	*-133.58*	
		For >5,000, Deduct	*-221.56*	
33 01 30 72-0223	LF	33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,182.00	
		For Vinlyester Resin, Add	*773.16*	
		For Epoxy Resin, Add	*91.12*	
		For Up To >10, Add	*784.70*	
		For >10 To 25, Add	*469.83*	
		For >25 To 50, Add	*337.12*	
		For >50 To 100, Add	*168.56*	
		For >500 To 1,000, Deduct	*-61.04*	
		For >1,000 To 2,000, Deduct	*-92.52*	
		For >2,000 To 5,000, Deduct	*-151.91*	
		For >5,000, Deduct	*-251.90*	
33 01 30 72-0224	LF	33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,330.87	
		For Vinlyester Resin, Add	*861.19*	
		For Epoxy Resin, Add	*101.50*	
		For Up To >10, Add	*916.94*	
		For >10 To 25, Add	*559.07*	
		For >25 To 50, Add	*396.95*	
		For >50 To 100, Add	*198.48*	
		For >500 To 1,000, Deduct	*-69.06*	
		For >1,000 To 2,000, Deduct	*-104.85*	
		For >2,000 To 5,000, Deduct	*-172.78*	
		For >5,000, Deduct	*-286.29*	
33 01 30 72-0225	LF	33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,493.16	
		For Vinlyester Resin, Add	*949.21*	
		For Epoxy Resin, Add	*111.87*	
		For Up To >10, Add	*1,089.43*	
		For >10 To 25, Add	*681.86*	
		For >25 To 50, Add	*476.91*	
		For >50 To 100, Add	*238.46*	
		For >500 To 1,000, Deduct	*-78.09*	
		For >1,000 To 2,000, Deduct	*-118.84*	
		For >2,000 To 5,000, Deduct	*-197.01*	
		For >5,000, Deduct	*-326.06*	
33 01 30 72-0226	LF	33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,666.20	
		For Vinlyester Resin, Add	*1,037.24*	
		For Epoxy Resin, Add	*122.25*	
		For Up To >10, Add	*1,294.18*	
		For >10 To 25, Add	*831.52*	
		For >25 To 50, Add	*573.00*	
		For >50 To 100, Add	*286.50*	
		For >500 To 1,000, Deduct	*-87.92*	
		For >1,000 To 2,000, Deduct	*-134.19*	
		For >2,000 To 5,000, Deduct	*-223.92*	
		For >5,000, Deduct	*-370.13*	

33 01 30 72-0227 34.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0228	LF	34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	600.57	
		For Vinlyester Resin, Add	*393.29*	
		For Epoxy Resin, Add	*46.35*	
		For Up To >10, Add	*397.11*	
		For >10 To 25, Add	*237.29*	
		For >25 To 50, Add	*170.46*	
		For >50 To 100, Add	*85.23*	
		For >500 To 1,000, Deduct	*-31.00*	
		For >1,000 To 2,000, Deduct	*-46.98*	
		For >2,000 To 5,000, Deduct	*-77.10*	
		For >5,000, Deduct	*-127.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0229	LF	34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	670.58	
		For Vinlyester Resin, Add	*439.30*	
		For Epoxy Resin, Add	*51.77*	
		For Up To >10, Add	*442.82*	
		For >10 To 25, Add	*264.42*	
		For >25 To 50, Add	*190.03*	
		For >50 To 100, Add	*95.01*	
		For >500 To 1,000, Deduct	*-34.60*	
		For >1,000 To 2,000, Deduct	*-52.44*	
		For >2,000 To 5,000, Deduct	*-86.06*	
		For >5,000, Deduct	*-142.72*	
33 01 30 72-0230	LF	34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	807.49	
		For Vinlyester Resin, Add	*531.33*	
		For Epoxy Resin, Add	*62.62*	
		For Up To >10, Add	*524.87*	
		For >10 To 25, Add	*310.89*	
		For >25 To 50, Add	*224.48*	
		For >50 To 100, Add	*112.24*	
		For >500 To 1,000, Deduct	*-41.59*	
		For >1,000 To 2,000, Deduct	*-62.98*	
		For >2,000 To 5,000, Deduct	*-103.20*	
		For >5,000, Deduct	*-171.19*	
33 01 30 72-0231	LF	34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	945.89	
		For Vinlyester Resin, Add	*623.35*	
		For Epoxy Resin, Add	*73.47*	
		For Up To >10, Add	*611.42*	
		For >10 To 25, Add	*361.10*	
		For >25 To 50, Add	*261.19*	
		For >50 To 100, Add	*130.59*	
		For >500 To 1,000, Deduct	*-48.68*	
		For >1,000 To 2,000, Deduct	*-73.71*	
		For >2,000 To 5,000, Deduct	*-120.71*	
		For >5,000, Deduct	*-200.26*	
33 01 30 72-0232	LF	34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,086.48	
		For Vinlyester Resin, Add	*715.37*	
		For Epoxy Resin, Add	*84.31*	
		For Up To >10, Add	*704.54*	
		For >10 To 25, Add	*416.79*	
		For >25 To 50, Add	*301.17*	
		For >50 To 100, Add	*150.59*	
		For >500 To 1,000, Deduct	*-55.94*	
		For >1,000 To 2,000, Deduct	*-84.71*	
		For >2,000 To 5,000, Deduct	*-138.77*	
		For >5,000, Deduct	*-230.20*	
33 01 30 72-0233	LF	34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,230.91	
		For Vinlyester Resin, Add	*807.40*	
		For Epoxy Resin, Add	*95.16*	
		For Up To >10, Add	*809.16*	
		For >10 To 25, Add	*482.06*	
		For >25 To 50, Add	*346.91*	
		For >50 To 100, Add	*173.45*	
		For >500 To 1,000, Deduct	*-63.48*	
		For >1,000 To 2,000, Deduct	*-96.19*	
		For >2,000 To 5,000, Deduct	*-157.78*	
		For >5,000, Deduct	*-261.68*	
33 01 30 72-0234	LF	34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,385.50	
		For Vinlyester Resin, Add	*899.43*	
		For Epoxy Resin, Add	*106.00*	
		For Up To >10, Add	*944.25*	
		For >10 To 25, Add	*572.73*	
		For >25 To 50, Add	*407.88*	
		For >50 To 100, Add	*203.94*	
		For >500 To 1,000, Deduct	*-71.79*	
		For >1,000 To 2,000, Deduct	*-108.94*	
		For >2,000 To 5,000, Deduct	*-179.34*	
		For >5,000, Deduct	*-297.22*	
33 01 30 72-0235	LF	34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,553.50	
		For Vinlyester Resin, Add	*991.45*	
		For Epoxy Resin, Add	*116.85*	
		For Up To >10, Add	*1,119.60*	
		For >10 To 25, Add	*696.94*	
		For >25 To 50, Add	*488.98*	
		For >50 To 100, Add	*244.49*	
		For >500 To 1,000, Deduct	*-81.10*	
		For >1,000 To 2,000, Deduct	*-123.37*	
		For >2,000 To 5,000, Deduct	*-204.25*	
		For >5,000, Deduct	*-338.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0236	LF	34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,732.26	
		For Vinlyester Resin, Add	*1,083.48*	
		For Epoxy Resin, Add	*127.70*	
		For Up To >10, Add	*1,327.21*	
		For >10 To 25, Add	*848.03*	
		For >25 To 50, Add	*586.21*	
		For >50 To 100, Add	*293.11*	
		For >500 To 1,000, Deduct	*-91.22*	
		For >1,000 To 2,000, Deduct	*-139.14*	
		For >2,000 To 5,000, Deduct	*-231.85*	
		For >5,000, Deduct	*-383.34*	

33 01 30 72-0237 36mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0238	LF	36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	625.61	
		For Vinlyester Resin, Add	*409.44*	
		For Epoxy Resin, Add	*48.26*	
		For Up To >10, Add	*414.56*	
		For >10 To 25, Add	*247.98*	
		For >25 To 50, Add	*178.03*	
		For >50 To 100, Add	*89.02*	
		For >500 To 1,000, Deduct	*-32.30*	
		For >1,000 To 2,000, Deduct	*-48.96*	
		For >2,000 To 5,000, Deduct	*-80.36*	
		For >5,000, Deduct	*-133.26*	
33 01 30 72-0239	LF	36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	698.71	
		For Vinlyester Resin, Add	*457.45*	
		For Epoxy Resin, Add	*53.91*	
		For Up To >10, Add	*462.38*	
		For >10 To 25, Add	*276.40*	
		For >25 To 50, Add	*198.52*	
		For >50 To 100, Add	*99.26*	
		For >500 To 1,000, Deduct	*-36.07*	
		For >1,000 To 2,000, Deduct	*-54.66*	
		For >2,000 To 5,000, Deduct	*-89.72*	
		For >5,000, Deduct	*-148.78*	
33 01 30 72-0240	LF	36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	841.57	
		For Vinlyester Resin, Add	*553.48*	
		For Epoxy Resin, Add	*65.23*	
		For Up To >10, Add	*547.99*	
		For >10 To 25, Add	*324.87*	
		For >25 To 50, Add	*234.46*	
		For >50 To 100, Add	*117.23*	
		For >500 To 1,000, Deduct	*-43.35*	
		For >1,000 To 2,000, Deduct	*-65.66*	
		For >2,000 To 5,000, Deduct	*-107.60*	
		For >5,000, Deduct	*-178.49*	
33 01 30 72-0241	LF	36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	986.04	
		For Vinlyester Resin, Add	*649.51*	
		For Epoxy Resin, Add	*76.55*	
		For Up To >10, Add	*638.45*	
		For >10 To 25, Add	*377.39*	
		For >25 To 50, Add	*272.83*	
		For >50 To 100, Add	*136.41*	
		For >500 To 1,000, Deduct	*-50.76*	
		For >1,000 To 2,000, Deduct	*-76.86*	
		For >2,000 To 5,000, Deduct	*-125.89*	
		For >5,000, Deduct	*-208.84*	
33 01 30 72-0242	LF	36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,132.81	
		For Vinlyester Resin, Add	*745.54*	
		For Epoxy Resin, Add	*87.87*	
		For Up To >10, Add	*735.81*	
		For >10 To 25, Add	*435.66*	
		For >25 To 50, Add	*314.65*	
		For >50 To 100, Add	*157.33*	
		For >500 To 1,000, Deduct	*-58.33*	
		For >1,000 To 2,000, Deduct	*-88.35*	
		For >2,000 To 5,000, Deduct	*-144.75*	
		For >5,000, Deduct	*-240.11*	
33 01 30 72-0243	LF	36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,283.64	
		For Vinlyester Resin, Add	*841.56*	
		For Epoxy Resin, Add	*99.18*	
		For Up To >10, Add	*845.35*	
		For >10 To 25, Add	*504.08*	
		For >25 To 50, Add	*362.56*	
		For >50 To 100, Add	*181.28*	
		For >500 To 1,000, Deduct	*-66.22*	
		For >1,000 To 2,000, Deduct	*-100.34*	
		For >2,000 To 5,000, Deduct	*-164.62*	
		For >5,000, Deduct	*-273.01*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0244	LF	36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,445.10	
		For Vinlyester Resin, Add	*937.59*	
		For Epoxy Resin, Add	*110.50*	
		For Up To >10, Add	*986.78*	
		For >10 To 25, Add	*599.08*	
		For >25 To 50, Add	*426.42*	
		For >50 To 100, Add	*213.21*	
		For >500 To 1,000, Deduct	*-74.90*	
		For >1,000 To 2,000, Deduct	*-113.67*	
		For >2,000 To 5,000, Deduct	*-187.15*	
		For >5,000, Deduct	*-310.16*	
33 01 30 72-0245	LF	36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,620.67	
		For Vinlyester Resin, Add	*1,033.61*	
		For Epoxy Resin, Add	*121.82*	
		For Up To >10, Add	*1,170.54*	
		For >10 To 25, Add	*729.35*	
		For >25 To 50, Add	*511.44*	
		For >50 To 100, Add	*255.72*	
		For >500 To 1,000, Deduct	*-84.64*	
		For >1,000 To 2,000, Deduct	*-128.75*	
		For >2,000 To 5,000, Deduct	*-213.21*	
		For >5,000, Deduct	*-352.95*	
33 01 30 72-0246	LF	36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,807.47	
		For Vinlyester Resin, Add	*1,129.65*	
		For Epoxy Resin, Add	*133.14*	
		For Up To >10, Add	*1,387.96*	
		For >10 To 25, Add	*887.67*	
		For >25 To 50, Add	*613.29*	
		For >50 To 100, Add	*306.65*	
		For >500 To 1,000, Deduct	*-95.22*	
		For >1,000 To 2,000, Deduct	*-145.24*	
		For >2,000 To 5,000, Deduct	*-242.08*	
		For >5,000, Deduct	*-400.23*	

33 01 30 72-0247 37.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0248	LF	37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	724.54	
		For Vinlyester Resin, Add	*475.53*	
		For Epoxy Resin, Add	*56.04*	
		For Up To >10, Add	*475.30*	
		For >10 To 25, Add	*282.86*	
		For >25 To 50, Add	*203.68*	
		For >50 To 100, Add	*101.84*	
		For >500 To 1,000, Deduct	*-37.36*	
		For >1,000 To 2,000, Deduct	*-56.60*	
		For >2,000 To 5,000, Deduct	*-92.82*	
		For >5,000, Deduct	*-153.95*	
33 01 30 72-0249	LF	37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	873.10	
		For Vinlyester Resin, Add	*575.55*	
		For Epoxy Resin, Add	*67.83*	
		For Up To >10, Add	*563.75*	
		For >10 To 25, Add	*332.76*	
		For >25 To 50, Add	*240.76*	
		For >50 To 100, Add	*120.38*	
		For >500 To 1,000, Deduct	*-44.93*	
		For >1,000 To 2,000, Deduct	*-68.03*	
		For >2,000 To 5,000, Deduct	*-111.39*	
		For >5,000, Deduct	*-184.80*	
33 01 30 72-0250	LF	37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,023.29	
		For Vinlyester Resin, Add	*675.58*	
		For Epoxy Resin, Add	*79.62*	
		For Up To >10, Add	*657.07*	
		For >10 To 25, Add	*386.71*	
		For >25 To 50, Add	*280.28*	
		For >50 To 100, Add	*140.14*	
		For >500 To 1,000, Deduct	*-52.62*	
		For >1,000 To 2,000, Deduct	*-79.66*	
		For >2,000 To 5,000, Deduct	*-130.36*	
		For >5,000, Deduct	*-216.29*	
33 01 30 72-0251	LF	37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,175.78	
		For Vinlyester Resin, Add	*775.61*	
		For Epoxy Resin, Add	*91.41*	
		For Up To >10, Add	*757.29*	
		For >10 To 25, Add	*446.41*	
		For >25 To 50, Add	*323.24*	
		For >50 To 100, Add	*161.62*	
		For >500 To 1,000, Deduct	*-60.48*	
		For >1,000 To 2,000, Deduct	*-91.57*	
		For >2,000 To 5,000, Deduct	*-149.90*	
		For >5,000, Deduct	*-248.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0252	LF	37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,332.33	
		For Vinlyester Resin, Add	*875.64*	
		For Epoxy Resin, Add	*103.20*	
		For Up To >10, Add	*869.69*	
		For >10 To 25, Add	*516.26*	
		For >25 To 50, Add	*372.30*	
		For >50 To 100, Add	*186.15*	
		For >500 To 1,000, Deduct	*-68.65*	
		For >1,000 To 2,000, Deduct	*-104.00*	
		For >2,000 To 5,000, Deduct	*-170.46*	
		For >5,000, Deduct	*-282.75*	
33 01 30 72-0253	LF	37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,499.51	
		For Vinlyester Resin, Add	*975.67*	
		For Epoxy Resin, Add	*114.99*	
		For Up To >10, Add	*1,013.98*	
		For >10 To 25, Add	*612.68*	
		For >25 To 50, Add	*437.30*	
		For >50 To 100, Add	*218.65*	
		For >500 To 1,000, Deduct	*-77.62*	
		For >1,000 To 2,000, Deduct	*-117.75*	
		For >2,000 To 5,000, Deduct	*-193.68*	
		For >5,000, Deduct	*-321.04*	
33 01 30 72-0254	LF	37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,680.79	
		For Vinlyester Resin, Add	*1,075.70*	
		For Epoxy Resin, Add	*126.78*	
		For Up To >10, Add	*1,200.60*	
		For >10 To 25, Add	*744.38*	
		For >25 To 50, Add	*523.46*	
		For >50 To 100, Add	*261.73*	
		For >500 To 1,000, Deduct	*-87.64*	
		For >1,000 To 2,000, Deduct	*-133.26*	
		For >2,000 To 5,000, Deduct	*-220.43*	
		For >5,000, Deduct	*-364.97*	
33 01 30 72-0255	LF	37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,873.30	
		For Vinlyester Resin, Add	*1,175.73*	
		For Epoxy Resin, Add	*138.57*	
		For Up To >10, Add	*1,420.88*	
		For >10 To 25, Add	*904.13*	
		For >25 To 50, Add	*626.46*	
		For >50 To 100, Add	*313.23*	
		For >500 To 1,000, Deduct	*-98.51*	
		For >1,000 To 2,000, Deduct	*-150.18*	
		For >2,000 To 5,000, Deduct	*-249.98*	
		For >5,000, Deduct	*-413.40*	

33 01 30 72-0256 39mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0257	LF	39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	907.08	
		For Vinlyester Resin, Add	*597.56*	
		For Epoxy Resin, Add	*70.43*	
		For Up To >10, Add	*587.12*	
		For >10 To 25, Add	*346.99*	
		For >25 To 50, Add	*250.88*	
		For >50 To 100, Add	*125.44*	
		For >500 To 1,000, Deduct	*-46.69*	
		For >1,000 To 2,000, Deduct	*-70.70*	
		For >2,000 To 5,000, Deduct	*-115.80*	
		For >5,000, Deduct	*-192.10*	
33 01 30 72-0258	LF	39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,063.31	
		For Vinlyester Resin, Add	*701.58*	
		For Epoxy Resin, Add	*82.69*	
		For Up To >10, Add	*684.28*	
		For >10 To 25, Add	*403.19*	
		For >25 To 50, Add	*292.03*	
		For >50 To 100, Add	*146.01*	
		For >500 To 1,000, Deduct	*-54.69*	
		For >1,000 To 2,000, Deduct	*-82.80*	
		For >2,000 To 5,000, Deduct	*-135.53*	
		For >5,000, Deduct	*-224.87*	
33 01 30 72-0259	LF	39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,222.11	
		For Vinlyester Resin, Add	*805.62*	
		For Epoxy Resin, Add	*94.95*	
		For Up To >10, Add	*789.13*	
		For >10 To 25, Add	*465.80*	
		For >25 To 50, Add	*337.02*	
		For >50 To 100, Add	*168.51*	
		For >500 To 1,000, Deduct	*-62.89*	
		For >1,000 To 2,000, Deduct	*-95.22*	
		For >2,000 To 5,000, Deduct	*-155.91*	
		For >5,000, Deduct	*-258.67*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0260	LF	39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,384.94	
		For Vinlyester Resin, Add	*909.64*	
		For Epoxy Resin, Add	*107.21*	
		For Up To >10, Add	*906.10*	
		For >10 To 25, Add	*538.50*	
		For >25 To 50, Add	*388.07*	
		For >50 To 100, Add	*194.04*	
		For >500 To 1,000, Deduct	*-71.38*	
		For >1,000 To 2,000, Deduct	*-108.14*	
		For >2,000 To 5,000, Deduct	*-177.30*	
		For >5,000, Deduct	*-294.08*	
33 01 30 72-0261	LF	39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,558.99	
		For Vinlyester Resin, Add	*1,013.67*	
		For Epoxy Resin, Add	*119.47*	
		For Up To >10, Add	*1,056.72*	
		For >10 To 25, Add	*639.25*	
		For >25 To 50, Add	*455.96*	
		For >50 To 100, Add	*227.98*	
		For >500 To 1,000, Deduct	*-80.72*	
		For >1,000 To 2,000, Deduct	*-122.47*	
		For >2,000 To 5,000, Deduct	*-201.49*	
		For >5,000, Deduct	*-333.98*	
33 01 30 72-0262	LF	39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,747.97	
		For Vinlyester Resin, Add	*1,117.70*	
		For Epoxy Resin, Add	*131.73*	
		For Up To >10, Add	*1,252.11*	
		For >10 To 25, Add	*777.31*	
		For >25 To 50, Add	*546.22*	
		For >50 To 100, Add	*273.11*	
		For >500 To 1,000, Deduct	*-91.18*	
		For >1,000 To 2,000, Deduct	*-138.66*	
		For >2,000 To 5,000, Deduct	*-229.42*	
		For >5,000, Deduct	*-379.84*	
33 01 30 72-0263	LF	39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,948.85	
		For Vinlyester Resin, Add	*1,221.73*	
		For Epoxy Resin, Add	*143.99*	
		For Up To >10, Add	*1,483.23*	
		For >10 To 25, Add	*945.13*	
		For >25 To 50, Add	*654.35*	
		For >50 To 100, Add	*327.17*	
		For >500 To 1,000, Deduct	*-102.53*	
		For >1,000 To 2,000, Deduct	*-156.34*	
		For >2,000 To 5,000, Deduct	*-260.32*	
		For >5,000, Deduct	*-430.47*	

33 01 30 72-0264 40.5mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0265	LF	40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,100.34	
		For Vinlyester Resin, Add	*727.50*	
		For Epoxy Resin, Add	*85.74*	
		For Up To >10, Add	*702.80*	
		For >10 To 25, Add	*412.45*	
		For >25 To 50, Add	*299.43*	
		For >50 To 100, Add	*149.72*	
		For >500 To 1,000, Deduct	*-56.54*	
		For >1,000 To 2,000, Deduct	*-85.58*	
		For >2,000 To 5,000, Deduct	*-139.98*	
		For >5,000, Deduct	*-232.28*	
33 01 30 72-0266	LF	40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,264.80	
		For Vinlyester Resin, Add	*835.53*	
		For Epoxy Resin, Add	*98.47*	
		For Up To >10, Add	*810.35*	
		For >10 To 25, Add	*476.36*	
		For >25 To 50, Add	*345.49*	
		For >50 To 100, Add	*172.75*	
		For >500 To 1,000, Deduct	*-65.02*	
		For >1,000 To 2,000, Deduct	*-98.42*	
		For >2,000 To 5,000, Deduct	*-161.03*	
		For >5,000, Deduct	*-267.20*	
33 01 30 72-0267	LF	40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,433.40	
		For Vinlyester Resin, Add	*943.57*	
		For Epoxy Resin, Add	*111.21*	
		For Up To >10, Add	*930.33*	
		For >10 To 25, Add	*550.61*	
		For >25 To 50, Add	*397.77*	
		For >50 To 100, Add	*198.88*	
		For >500 To 1,000, Deduct	*-73.81*	
		For >1,000 To 2,000, Deduct	*-111.78*	
		For >2,000 To 5,000, Deduct	*-183.12*	
		For >5,000, Deduct	*-303.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0268	LF	40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,613.17	
		For Vinlyester Resin, Add	*1,051.60*	
		For Epoxy Resin, Add	*123.94*	
		For Up To >10, Add	*1,083.81*	
		For >10 To 25, Add	*652.80*	
		For >25 To 50, Add	*466.79*	
		For >50 To 100, Add	*233.40*	
		For >500 To 1,000, Deduct	*-83.43*	
		For >1,000 To 2,000, Deduct	*-126.53*	
		For >2,000 To 5,000, Deduct	*-208.00*	
		For >5,000, Deduct	*-344.81*	
33 01 30 72-0269	LF	40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,807.86	
		For Vinlyester Resin, Add	*1,159.63*	
		For Epoxy Resin, Add	*136.67*	
		For Up To >10, Add	*1,282.06*	
		For >10 To 25, Add	*792.28*	
		For >25 To 50, Add	*558.20*	
		For >50 To 100, Add	*279.10*	
		For >500 To 1,000, Deduct	*-94.17*	
		For >1,000 To 2,000, Deduct	*-143.15*	
		For >2,000 To 5,000, Deduct	*-236.61*	
		For >5,000, Deduct	*-391.82*	
33 01 30 72-0270	LF	40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,014.35	
		For Vinlyester Resin, Add	*1,267.66*	
		For Epoxy Resin, Add	*149.40*	
		For Up To >10, Add	*1,515.70*	
		For >10 To 25, Add	*961.26*	
		For >25 To 50, Add	*667.30*	
		For >50 To 100, Add	*333.65*	
		For >500 To 1,000, Deduct	*-105.80*	
		For >1,000 To 2,000, Deduct	*-161.25*	
		For >2,000 To 5,000, Deduct	*-268.17*	
		For >5,000, Deduct	*-443.55*	

33 01 30 72-0271 42mm Thick Lining Cured In-Place Pipe *(33 01 30 72-0015)*

33 01 30 72-0272	LF	42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,310.95	
		For Vinlyester Resin, Add	*865.38*	
		For Epoxy Resin, Add	*101.99*	
		For Up To >10, Add	*842.23*	
		For >10 To 25, Add	*495.81*	
		For >25 To 50, Add	*359.30*	
		For >50 To 100, Add	*179.65*	
		For >500 To 1,000, Deduct	*-67.42*	
		For >1,000 To 2,000, Deduct	*-102.06*	
		For >2,000 To 5,000, Deduct	*-167.03*	
		For >5,000, Deduct	*-277.13*	
33 01 30 72-0273	LF	42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,486.03	
		For Vinlyester Resin, Add	*977.41*	
		For Epoxy Resin, Add	*115.19*	
		For Up To >10, Add	*967.34*	
		For >10 To 25, Add	*573.40*	
		For >25 To 50, Add	*413.86*	
		For >50 To 100, Add	*206.93*	
		For >500 To 1,000, Deduct	*-76.54*	
		For >1,000 To 2,000, Deduct	*-115.94*	
		For >2,000 To 5,000, Deduct	*-189.99*	
		For >5,000, Deduct	*-315.15*	
33 01 30 72-0274	LF	42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,672.79	
		For Vinlyester Resin, Add	*1,089.45*	
		For Epoxy Resin, Add	*128.40*	
		For Up To >10, Add	*1,127.50*	
		For >10 To 25, Add	*680.19*	
		For >25 To 50, Add	*485.93*	
		For >50 To 100, Add	*242.97*	
		For >500 To 1,000, Deduct	*-86.55*	
		For >1,000 To 2,000, Deduct	*-131.28*	
		For >2,000 To 5,000, Deduct	*-215.87*	
		For >5,000, Deduct	*-357.85*	
33 01 30 72-0275	LF	42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,859.55	
		For Vinlyester Resin, Add	*1,201.47*	
		For Epoxy Resin, Add	*141.60*	
		For Up To >10, Add	*1,287.68*	
		For >10 To 25, Add	*787.00*	
		For >25 To 50, Add	*558.02*	
		For >50 To 100, Add	*279.01*	
		For >500 To 1,000, Deduct	*-96.56*	
		For >1,000 To 2,000, Deduct	*-146.62*	
		For >2,000 To 5,000, Deduct	*-241.76*	
		For >5,000, Deduct	*-400.54*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0276	LF	42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,089.79	
		For Vinlyester Resin, Add	*1,313.51*	
		For Epoxy Resin, Add	*154.81*	
		For Up To >10, Add	*1,578.27*	
		For >10 To 25, Add	*1,002.49*	
		For >25 To 50, Add	*695.31*	
		For >50 To 100, Add	*347.66*	
		For >500 To 1,000, Deduct	*-109.82*	
		For >1,000 To 2,000, Deduct	*-167.40*	
		For >2,000 To 5,000, Deduct	*-278.51*	
		For >5,000, Deduct	*-460.63*	

33 01 30 74 Cured-in-Place Lateral Lining *(33 01 30)*

33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement *(33 01 30 74)*

33 01 30 74-0002 Lateral Reinstatement/Reconnection *(33 01 30 74-0001)*

33 01 30 74-0003	EA	Cut Liner For Laterals, Up To 4" (Robotic)	468.15	
33 01 30 74-0004	EA	Cut Liner For Laterals, 6" (Robotic)	506.11	
33 01 30 74-0005	EA	Cut Liner For Laterals, 8" (Robotic)	537.75	
33 01 30 74-0006	EA	Cut Liner For Laterals, 10" (Robotic)	569.37	
33 01 30 74-0007	EA	Cut Liner For Laterals, 12" (Robotic)	601.00	

33 01 30 74-0008 Grout Lateral Service *(33 01 30 74-0001)*

33 01 30 74-0009 Grout Lateral Service - Bladder *(33 01 30 74-0008)*

33 01 30 74-0010	EA	Grout Up To 4" Lateral Service - Bladder	482.87	
33 01 30 74-0011	EA	Grout 6" Lateral Service - Bladder	551.85	
33 01 30 74-0012	EA	Grout 8" Lateral Service - Bladder	620.84	

33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application *(33 01 30 74-0008)*

33 01 30 74-0014	EA	Grout 3" To 6" Lateral Service - Robotic Trowel Application	523.11	
33 01 30 74-0015	EA	Grout 8" To 12" Lateral Service - Robotic Trowel Application	563.35	

33 01 30 74-0016 Lateral T-Liner *(33 01 30 74-0001)*

Note: As manufactured by LMK.

33 01 30 74-0017	EA	Up To 4" Lateral T-Liner	629.66	
33 01 30 74-0018	EA	6" Lateral T-Liner	700.03	
33 01 30 74-0019	EA	8" Lateral T-Liner	808.87	

33 01 30 74-0020 Lining Lateral Pipe *(33 01 30 74-0001)*

33 01 30 74-0021 Lining Lateral Pipe *(33 01 30 74-0020)*

33 01 30 74-0022	LF	6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP)	28.75	
		For 7.5mm, Add	*2.50*	
		For 9 mm, Add	*4.94*	
33 01 30 74-0023	LF	6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP)	33.42	
		For 7.5mm, Add	*3.40*	
		For 9 mm, Add	*6.73*	
33 01 30 74-0024	LF	6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP)	41.91	
		For 7.5mm, Add	*5.21*	
		For 9 mm, Add	*10.30*	

33 01 30 74-0025 Lining Manhole Drop *(33 01 30 74-0020)*

33 01 30 74-0026	EA	Manhole Drop Section Lining	666.66	

33 01 30 79 Fold-and-Form Pipe Lining *(33 01 30)*

33 01 30 79-0001 Form and Fold Relining Underground Pipelines *(33 01 30 79)*

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 79-0002 Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion *(33 01 30 79-0001)*

33 01 30 79-0003	EA	Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines	4,625.43	
33 01 30 79-0004	EA	Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines	1,850.16	

33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner *(33 01 30 79-0001)*

33 01 30 79-0006	LF	4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	30.71	
		For DR 26 Pipe Liner, Add	*5.20*	
		For Up To 75, Add	*19.03*	
		For >75 To 150, Add	*9.51*	
		For >500 To 1,000, Deduct	*-0.74*	
		For >1,000 To 2,000, Deduct	*-1.49*	
		For >2,000, Deduct	*-2.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0007	LF	6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	38.93	
		For DR 26 Pipe Liner, Add	*7.07*	
		For DR 35 Pipe Liner, Deduct	*-3.53*	
		For Up To 75, Add	*21.66*	
		For >75 To 150, Add	*10.83*	
		For >500 To 1,000, Deduct	*-0.80*	
		For >1,000 To 2,000, Deduct	*-1.60*	
		For >2,000, Deduct	*-3.20*	
33 01 30 79-0008	LF	8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	40.35	
		For DR 26 Pipe Liner, Add	*7.20*	
		For DR 35 Pipe Liner, Deduct	*-3.60*	
		For Up To 75, Add	*23.11*	
		For >75 To 150, Add	*11.56*	
		For >500 To 1,000, Deduct	*-0.87*	
		For >1,000 To 2,000, Deduct	*-1.74*	
		For >2,000, Deduct	*-3.47*	
33 01 30 79-0009	LF	10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	55.78	
		For DR 26 Pipe Liner, Add	*10.79*	
		For DR 35 Pipe Liner, Deduct	*-5.40*	
		For DR 41 Pipe Liner, Deduct	*-10.79*	
		For Up To 75, Add	*27.55*	
		For >75 To 150, Add	*13.77*	
		For >500 To 1,000, Deduct	*-0.95*	
		For >1,000 To 2,000, Deduct	*-1.89*	
		For >2,000, Deduct	*-3.78*	
33 01 30 79-0010	LF	12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	77.06	
		For DR 26 Pipe Liner, Add	*15.80*	
		For DR 35 Pipe Liner, Deduct	*-7.90*	
		For DR 41 Pipe Liner, Deduct	*-15.80*	
		For Up To 75, Add	*33.44*	
		For >75 To 150, Add	*16.72*	
		For >500 To 1,000, Deduct	*-1.04*	
		For >1,000 To 2,000, Deduct	*-2.08*	
		For >2,000, Deduct	*-4.16*	
33 01 30 79-0011	LF	15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	104.73	
		For DR 35 Pipe Liner, Deduct	*-11.12*	
		For DR 41 Pipe Liner, Deduct	*-22.24*	
		For Up To 75, Add	*41.45*	
		For >75 To 150, Add	*20.72*	
		For >500 To 1,000, Deduct	*-1.18*	
		For >1,000 To 2,000, Deduct	*-2.37*	
		For >2,000, Deduct	*-4.73*	
33 01 30 79-0012	LF	18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	146.78	
		For DR 41 Pipe Liner, Deduct	*-12.90*	
		For DR 50 Pipe Liner, Deduct	*-25.80*	
		For Up To 75, Add	*52.48*	
		For >75 To 150, Add	*26.24*	
		For >500 To 1,000, Deduct	*-1.33*	
		For >1,000 To 2,000, Deduct	*-2.67*	
		For >2,000, Deduct	*-5.34*	
33 01 30 79-0013	LF	21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	165.79	
		For DR 50 Pipe Liner, Deduct	*-21.98*	
		For DR 55 Pipe Liner, Deduct	*-36.63*	
		For Up To 75, Add	*58.21*	
		For >75 To 150, Add	*29.10*	
		For >500 To 1,000, Deduct	*-1.45*	
		For >1,000 To 2,000, Deduct	*-2.89*	
		For >2,000, Deduct	*-5.78*	
33 01 30 79-0014	LF	24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	201.56	
		For DR 60 Pipe Liner, Deduct	*-27.08*	
		For Up To 75, Add	*67.64*	
		For >75 To 150, Add	*33.82*	
		For >500 To 1,000, Deduct	*-1.58*	
		For >1,000 To 2,000, Deduct	*-3.15*	
		For >2,000, Deduct	*-6.31*	

33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner *(33 01 30 79-0001)*

33 01 30 79-0016	LF	4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	32.67	
		For Up To 75, Add	*19.42*	
		For >75 To 150, Add	*9.71*	
		For >500 To 1,000, Deduct	*-0.74*	
		For >1,000 To 2,000, Deduct	*-1.49*	
		For >2,000, Deduct	*-2.97*	
		For DR 26 Pipe Liner, Add	*5.69*	
33 01 30 79-0017	LF	6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	38.93	
		For Up To 75, Add	*21.66*	
		For >75 To 150, Add	*10.83*	
		For >500 To 1,000, Deduct	*-0.80*	
		For >1,000 To 2,000, Deduct	*-1.60*	
		For >2,000, Deduct	*-3.20*	
		For DR 26 Pipe Liner, Add	*7.07*	
		For DR 35 Pipe Liner, Deduct	*-3.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0018	LF	8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	42.97	
		For Up To 75, Add	*23.64*	
		For >75 To 150, Add	*11.82*	
		For >500 To 1,000, Deduct	*-0.87*	
		For >1,000 To 2,000, Deduct	*-1.74*	
		For >2,000, Deduct	*-3.47*	
		For DR 26 Pipe Liner, Add	*7.85*	
		For DR 35 Pipe Liner, Deduct	*-3.93*	
33 01 30 79-0019	LF	10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	59.71	
		For Up To 75, Add	*28.34*	
		For >75 To 150, Add	*14.17*	
		For >500 To 1,000, Deduct	*-0.95*	
		For >1,000 To 2,000, Deduct	*-1.89*	
		For >2,000, Deduct	*-3.78*	
		For DR 26 Pipe Liner, Add	*11.78*	
		For DR 35 Pipe Liner, Deduct	*-5.89*	
		For DR 41 Pipe Liner, Deduct	*-11.78*	
33 01 30 79-0020	LF	12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	82.94	
		For Up To 75, Add	*34.62*	
		For >75 To 150, Add	*17.31*	
		For >500 To 1,000, Deduct	*-1.04*	
		For >1,000 To 2,000, Deduct	*-2.08*	
		For >2,000, Deduct	*-4.16*	
		For DR 26 Pipe Liner, Add	*17.27*	
		For DR 35 Pipe Liner, Deduct	*-8.63*	
		For DR 41 Pipe Liner, Deduct	*-17.27*	
33 01 30 79-0021	LF	15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	113.10	
		For Up To 75, Add	*43.12*	
		For >75 To 150, Add	*21.56*	
		For >500 To 1,000, Deduct	*-1.18*	
		For >1,000 To 2,000, Deduct	*-2.37*	
		For >2,000, Deduct	*-4.73*	
		For DR 35 Pipe Liner, Deduct	*-12.17*	
		For DR 41 Pipe Liner, Deduct	*-24.33*	
33 01 30 79-0022	LF	18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35	159.08	
		For Up To 75, Add	*54.94*	
		For >75 To 150, Add	*27.47*	
		For >500 To 1,000, Deduct	*-1.33*	
		For >1,000 To 2,000, Deduct	*-2.67*	
		For >2,000, Deduct	*-5.34*	
		For DR 41 Pipe Liner, Deduct	*-14.13*	
		For DR 50 Pipe Liner, Deduct	*-28.26*	
33 01 30 79-0023	LF	21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47	179.40	
		For Up To 75, Add	*60.93*	
		For >75 To 150, Add	*30.47*	
		For >500 To 1,000, Deduct	*-1.45*	
		For >1,000 To 2,000, Deduct	*-2.89*	
		For >2,000, Deduct	*-5.78*	
		For DR 50 Pipe Liner, Deduct	*-24.02*	
		For DR 55 Pipe Liner, Deduct	*-40.03*	
33 01 30 79-0024	LF	24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55	218.82	
		For Up To 75, Add	*71.09*	
		For >75 To 150, Add	*35.55*	
		For >500 To 1,000, Deduct	*-1.58*	
		For >1,000 To 2,000, Deduct	*-3.15*	
		For >2,000, Deduct	*-6.31*	
		For DR 60 Pipe Liner, Deduct	*-29.67*	

33 01 30 81 Manhole Rehabilitation *(33 01 30)*

33 01 30 81-0001 Restoration And Rehabilitation Of Manholes *(33 01 30 81)*

Note: Work is in confined spaces.

33 01 30 81-0002 Inspection And Ventilation System Set-up *(33 01 30 81-0001)*

33 01 30 81-0003	EA	Inspect Manhole	157.70
33 01 30 81-0004	EA	36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System Note: For internal inspection and repair of water mains.	10,296.36
33 01 30 81-0005	EA	>60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System Note: For internal inspection and repair of water mains	14,512.81

33 01 30 81-0006 Manhole Seals *(33 01 30 81-0001)*

33 01 30 81-0007 Internal Manhole Chimney Seals *(33 01 30 81-0006)*

Note: Cretex.

33 01 30 81-0008	EA	20" Internal Manhole Chimney Seal	459.50
33 01 30 81-0009	EA	22" Internal Manhole Chimney Seal	484.34
33 01 30 81-0010	EA	24" Internal Manhole Chimney Seal	496.75
33 01 30 81-0011	EA	26" Internal Manhole Chimney Seal	571.26
33 01 30 81-0012	EA	28" Internal Manhole Chimney Seal	645.78
33 01 30 81-0013	EA	30" Internal Manhole Chimney Seal	720.29
33 01 30 81-0014	EA	36" Internal Manhole Chimney Seal	869.32

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0015		**External Manhole Encapsulation** *(33 01 30 81-0006)*		
		Note: Wrapidseal.		
33 01 30 81-0016	EA	24" External Manhole Encapsulation	670.61	
33 01 30 81-0017	EA	30" External Manhole Encapsulation	707.87	
33 01 30 81-0018	EA	36" External Manhole Encapsulation	757.55	
33 01 30 81-0019	EA	42" External Manhole Encapsulation	819.64	
33 01 30 81-0020	EA	48" External Manhole Encapsulation	906.57	
33 01 30 81-0021	EA	54" External Manhole Encapsulation	1,005.92	
33 01 30 81-0022	EA	60" External Manhole Encapsulation	1,130.11	
33 01 30 81-0023		**Manhole Crack Repair** *(33 01 30 81-0001)*		
		Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024	LF	Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	50.32	
33 01 30 81-0025	LF	>1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	67.59	
33 01 30 81-0026	LF	Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	47.59	
33 01 30 81-0027	LF	>1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair	64.31	
33 01 30 81-0028		**Manhole Patching** *(33 01 30 81-0001)*		
		Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029	SF	Up To 1/4" Thick, Cementitious Grout, Manhole Patching	14.27	
33 01 30 81-0030	SF	Up To 1/4" Thick, Epoxy Grout, Manhole Patching	28.83	
33 01 30 81-0031		**Manhole Joint Restoration** *(33 01 30 81-0001)*		
		Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032	EA	3' Diameter Joint Restoration, Grout Fill Per Each Manhole	1,715.43	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*212.97*	
33 01 30 81-0033	EA	3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,002.42	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*235.97*	
33 01 30 81-0034	EA	4' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,287.24	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*258.97*	
33 01 30 81-0035	EA	5' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,687.67	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*270.46*	
33 01 30 81-0036	EA	6' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,087.01	
		Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
		For Grouting Each Additional Manhole Joint Section, Add	*281.96*	
33 01 30 81-0037		**Step Installation In Existing Manholes** *(33 01 30 81-0001)*		
		Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038	EA	Drill And Grout 8" x 9" Cast Iron Manhole Steps	118.78	20.98
33 01 30 81-0039	EA	Drill And Grout Galvanized Steel Manhole Step	95.33	20.98
33 01 30 81-0040	EA	Bolt On Galvanized Steel Manhole Step	101.92	20.98
33 01 30 81-0041	EA	Drill And Grout Aluminum Manhole Step	110.24	20.98
33 01 30 81-0042	EA	Drill And Insert Polypropylene Manhole Step	58.03	16.78
33 01 30 81-0043		**Invert Restoration** *(33 01 30 81-0001)*		
		Note: Includes removal of existing defective material and installation of new material.		
33 01 30 81-0044		**Concrete Invert Restoration** *(33 01 30 81-0043)*		
33 01 30 81-0045	EA	2' Diameter, Concrete Invert Restoration	313.01	
33 01 30 81-0046	EA	3' Diameter, Concrete Invert Restoration	352.44	
33 01 30 81-0047	EA	4' Diameter, Concrete Invert Restoration	391.86	
33 01 30 81-0048	EA	5' Diameter, Concrete Invert Restoration	431.29	
33 01 30 81-0049	EA	6' Diameter, Concrete Invert Restoration	549.57	
33 01 30 81-0050	SF	Square Or Rectangular, Concrete Invert Restoration	31.17	
33 01 30 81-0051		**Brick Invert Restoration** *(33 01 30 81-0043)*		
33 01 30 81-0052	EA	2' Diameter, Brick Invert Restoration	511.13	
33 01 30 81-0053	EA	3' Diameter, Brick Invert Restoration	550.55	
33 01 30 81-0054	EA	4' Diameter, Brick Invert Restoration	589.98	
33 01 30 81-0055	EA	5' Diameter, Brick Invert Restoration	629.40	
33 01 30 81-0056	EA	6' Diameter, Brick Invert Restoration	668.83	
33 01 30 81-0057	SF	Square Or Rectangular, Brick Invert Restoration	43.73	
33 01 30 81-0058		**Repair In-Kind Of Drainage Structures** *(33 01 30 81)*		
		Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.		
33 01 30 81-0059	VLF	2' Diameter, Repair In-Kind Drainage Structure	528.12	
33 01 30 81-0060	VLF	3' Diameter, Repair In-Kind Drainage Structure	792.19	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0061	VLF	4' Diameter, Repair In-Kind Drainage Structure	1,056.32	
33 01 30 81-0062	VLF	5' Diameter, Repair In-Kind Drainage Structure	1,320.31	
33 01 30 81-0063	VLF	6' Diameter, Repair In-Kind Drainage Structure	1,584.37	
33 01 30 81-0064	VLF	2' x 2', Repair In-Kind Drainage Structure	672.77	
33 01 30 81-0065	VLF	2' x 3', Repair In-Kind Drainage Structure	840.96	
33 01 30 81-0066	VLF	2' x 4', Repair In-Kind Drainage Structure	1,009.16	
33 01 30 81-0067	VLF	3' x 4', Repair In-Kind Drainage Structure	1,177.35	
33 01 30 81-0068	VLF	4' x 4', Repair In-Kind Drainage Structure	1,345.54	
33 01 30 81-0069	VLF	4' x 5', Repair In-Kind Drainage Structure	1,513.73	
33 01 30 81-0070	VLF	4' x 6', Repair In-Kind Drainage Structure	1,681.93	
33 01 30 81-0071	VLF	4' x 8', Repair In-Kind Drainage Structure	2,018.31	
33 01 30 81-0072	VLF	>32 GSF, Repair In-Kind Drainage Structure	2,354.70	

33 01 30 82 Epoxy Lining for Concrete Manholes *(33 01 30)*

33 01 30 82-0001 Epoxy Manhole Restoration, Interior *(33 01 30 82)*

33 01 30 82-0002	VLF	60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	297.81	
		For 80 Mil Material, Add	*32.44*	
		For 100 Mil Material, Add	*64.88*	
		For 125 Mil Material, Add	*100.58*	
		For 150 Mil Material, Add	*136.28*	
		For 200 Mil Material, Add	*194.74*	
		For 2 To 5 Manholes, Deduct	*-21.36*	
		For 6 To 10 Manholes, Deduct	*-35.27*	
		For >10 Manholes, Deduct	*-70.54*	
33 01 30 82-0003	VLF	60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	361.87	
		For 80 Mil Material, Add	*38.94*	
		For 100 Mil Material, Add	*77.88*	
		For 125 Mil Material, Add	*120.63*	
		For 150 Mil Material, Add	*163.38*	
		For 200 Mil Material, Add	*233.06*	
		For 2 To 5 Manholes, Deduct	*-26.00*	
		For 6 To 10 Manholes, Deduct	*-42.95*	
		For >10 Manholes, Deduct	*-85.90*	
33 01 30 82-0004	VLF	60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	397.09	
		For 80 Mil Material, Add	*43.25*	
		For 100 Mil Material, Add	*86.51*	
		For 125 Mil Material, Add	*134.11*	
		For 150 Mil Material, Add	*181.71*	
		For 200 Mil Material, Add	*259.66*	
		For 2 To 5 Manholes, Deduct	*-28.48*	
		For 6 To 10 Manholes, Deduct	*-47.03*	
		For >10 Manholes, Deduct	*-94.06*	
33 01 30 82-0005	VLF	60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	496.40	
		For 80 Mil Material, Add	*54.08*	
		For 100 Mil Material, Add	*108.16*	
		For 125 Mil Material, Add	*167.68*	
		For 150 Mil Material, Add	*227.20*	
		For 200 Mil Material, Add	*324.67*	
		For 2 To 5 Manholes, Deduct	*-35.60*	
		For 6 To 10 Manholes, Deduct	*-58.79*	
		For >10 Manholes, Deduct	*-117.58*	
33 01 30 82-0006	VLF	60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	595.67	
		For 80 Mil Material, Add	*64.89*	
		For 100 Mil Material, Add	*129.79*	
		For 125 Mil Material, Add	*201.21*	
		For 150 Mil Material, Add	*272.63*	
		For 200 Mil Material, Add	*389.59*	
		For 2 To 5 Manholes, Deduct	*-42.72*	
		For 6 To 10 Manholes, Deduct	*-70.55*	
		For >10 Manholes, Deduct	*-141.09*	

33 01 30 83 Lining for Concrete Manholes *(33 01 30)*

33 01 30 83-0001 Manhole Lining *(33 01 30 83)*

Note: Includes power washing and cleaning of manhole interiors.

33 01 30 83-0002 Cementitious Manhole Restoration, Interior *(33 01 30 83-0001)*

33 01 30 83-0003	VLF	1/2" Cementitious Restoration On 3' Diameter Manhole Interior	132.49	
		For Each Additional 1/2" Thick Material, Add	*31.86*	
		For 2 To 5 Manholes, Deduct	*-9.36*	
		For 6 To 10 Manholes, Deduct	*-15.40*	
		For >10 Manholes, Deduct	*-30.80*	
33 01 30 83-0004	VLF	1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	153.62	
		For Each Additional 1/2" Thick Material, Add	*37.07*	
		For 2 To 5 Manholes, Deduct	*-10.84*	
		For 6 To 10 Manholes, Deduct	*-17.85*	
		For >10 Manholes, Deduct	*-35.69*	
33 01 30 83-0005	VLF	1/2" Cementitious Restoration On 4' Diameter Manhole Interior	174.73	
		For Each Additional 1/2" Thick Material, Add	*42.28*	
		For 2 To 5 Manholes, Deduct	*-12.33*	
		For 6 To 10 Manholes, Deduct	*-20.29*	
		For >10 Manholes, Deduct	*-40.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0006	VLF	1/2" Cementitious Restoration On 5' Diameter Manhole Interior	205.67	
		For Each Additional 1/2" Thick Material, Add	*51.73*	
		For 2 To 5 Manholes, Deduct	*-14.45*	
		For 6 To 10 Manholes, Deduct	*-23.76*	
		For >10 Manholes, Deduct	*-47.52*	
33 01 30 83-0007	VLF	1/2" Cementitious Restoration On 6' Diameter Manhole Interior	224.73	
		For Each Additional 1/2" Thick Material, Add	*59.69*	
		For 2 To 5 Manholes, Deduct	*-15.69*	
		For 6 To 10 Manholes, Deduct	*-25.77*	
		For >10 Manholes, Deduct	*-51.53*	

33 01 30 83-0008 Polyurethane Manhole Restoration, Interior *(33 01 30 83-0001)*

33 01 30 83-0009	VLF	60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	272.37	
		For 80 Mil Material, Add	*23.96*	
		For 100 Mil Material, Add	*47.92*	
		For 125 Mil Material, Add	*73.02*	
		For 150 Mil Material, Add	*98.12*	
		For 200 Mil Material, Add	*135.38*	
		For 2 To 5 Manholes, Deduct	*-20.09*	
		For 6 To 10 Manholes, Deduct	*-33.36*	
		For >10 Manholes, Deduct	*-66.73*	
33 01 30 83-0010	VLF	60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	332.14	
		For 80 Mil Material, Add	*29.03*	
		For 100 Mil Material, Add	*58.06*	
		For 125 Mil Material, Add	*88.42*	
		For 150 Mil Material, Add	*118.78*	
		For 200 Mil Material, Add	*163.69*	
		For 2 To 5 Manholes, Deduct	*-24.51*	
		For 6 To 10 Manholes, Deduct	*-40.72*	
		For >10 Manholes, Deduct	*-81.44*	
33 01 30 83-0011	VLF	60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	363.17	
		For 80 Mil Material, Add	*31.95*	
		For 100 Mil Material, Add	*63.89*	
		For 125 Mil Material, Add	*97.36*	
		For 150 Mil Material, Add	*130.83*	
		For 200 Mil Material, Add	*180.51*	
		For 2 To 5 Manholes, Deduct	*-26.78*	
		For 6 To 10 Manholes, Deduct	*-44.48*	
		For >10 Manholes, Deduct	*-88.97*	
33 01 30 83-0012	VLF	60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	453.95	
		For 80 Mil Material, Add	*39.93*	
		For 100 Mil Material, Add	*79.86*	
		For 125 Mil Material, Add	*121.69*	
		For 150 Mil Material, Add	*163.52*	
		For 200 Mil Material, Add	*225.62*	
		For 2 To 5 Manholes, Deduct	*-33.48*	
		For 6 To 10 Manholes, Deduct	*-55.60*	
		For >10 Manholes, Deduct	*-111.21*	
33 01 30 83-0013	VLF	60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	544.74	
		For 80 Mil Material, Add	*47.92*	
		For 100 Mil Material, Add	*95.84*	
		For 125 Mil Material, Add	*146.03*	
		For 150 Mil Material, Add	*196.23*	
		For 200 Mil Material, Add	*270.75*	
		For 2 To 5 Manholes, Deduct	*-40.17*	
		For 6 To 10 Manholes, Deduct	*-66.73*	
		For >10 Manholes, Deduct	*-133.45*	

33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior *(33 01 30 83-0001)*

33 01 30 83-0015	VLF	3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	401.32	
		For 2 To 5 Manholes, Deduct	*-23.97*	
		For 6 To 10 Manholes, Deduct	*-37.90*	
		For >10 Manholes, Deduct	*-75.81*	
33 01 30 83-0016	VLF	3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	491.38	
		For 2 To 5 Manholes, Deduct	*-29.34*	
		For 6 To 10 Manholes, Deduct	*-46.39*	
		For >10 Manholes, Deduct	*-92.79*	
33 01 30 83-0017	VLF	4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	574.95	
		For 2 To 5 Manholes, Deduct	*-33.95*	
		For 6 To 10 Manholes, Deduct	*-53.53*	
		For >10 Manholes, Deduct	*-107.06*	
33 01 30 83-0018	VLF	5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	720.83	
		For 2 To 5 Manholes, Deduct	*-42.55*	
		For 6 To 10 Manholes, Deduct	*-67.07*	
		For >10 Manholes, Deduct	*-134.14*	
33 01 30 83-0019	VLF	6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	866.70	
		For 2 To 5 Manholes, Deduct	*-51.14*	
		For 6 To 10 Manholes, Deduct	*-80.61*	
		For >10 Manholes, Deduct	*-161.23*	

33 01 30 86 Manhole Rim Adjustment *(33 01 30)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 86-0001		Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers *(33 01 30 86)*		
33 01 30 86-0002		Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers *(33 01 30 86-0001)*		
33 01 30 86-0003	EA	Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	315.62	
33 01 30 86-0004	EA	>2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	353.77	
33 01 30 86-0005	EA	>3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	388.64	
33 01 30 86-0006	EA	>4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	428.05	
33 01 30 86-0007	EA	>5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	460.49	
33 01 30 86-0008		Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser *(33 01 30 86-0001)*		
33 01 30 86-0009	EA	Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	367.37	
33 01 30 86-0010	EA	>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	399.94	
33 01 30 86-0011	EA	>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	440.58	
33 01 30 86-0012	EA	>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	480.00	
33 01 30 86-0013	EA	>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	518.18	
33 01 30 86-0014		>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers *(33 01 30 86-0001)*		
33 01 30 86-0015	EA	>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	514.28	
33 01 30 86-0016	EA	7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	558.63	
33 01 30 86-0017	EA	7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	603.79	
33 01 30 86-0018	EA	8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	640.32	
33 01 30 86-0019	EA	9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	694.99	
33 01 30 86-0020	EA	10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	745.08	
33 01 30 86-0021	EA	11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	794.34	
33 01 30 86-0022	EA	12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	844.78	
33 01 30 86-0023		>12" Rise, Solid Manhole Risers *(33 01 30 86)*		
33 01 30 86-0024		Precast Concrete Manhole Riser *(33 01 30 86-0023)*		
33 01 30 86-0025	VLF	Up To 26" Diameter Precast Concrete Manhole Riser	97.23	
33 01 30 86-0026	VLF	>26" To 36" Diameter Precast Concrete Manhole Riser	116.33	
33 01 30 86-0027	VLF	>36" To 48" Diameter Precast Concrete Manhole Riser	132.62	
33 01 30 86-0028	VLF	>48" To 60" Diameter Precast Concrete Manhole Riser	261.53	
33 01 30 86-0029	VLF	>60" To 72" Diameter Precast Concrete Manhole Riser	384.65	

33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems *(33 01)*

33 01 34 13 Septic Tank Solids Removal ***(33 01 34)***

33 01 34 13-0001		Pump Out Septic Tanks *(33 01 34 13)*		
33 01 34 13-0002	GAL	Pump Out Septic Tank And Dispose	0.61	

33 05 Common Work Results for Utilities *(33)*

33 05 07 Trenchless Installation of Utility Piping *(33 05)*

33 05 07 13 Utility Directional Drilling ***(33 05 07)***

33 05 07 13-0001		Horizontal Augering *(33 05 07 13)* Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.		
33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering	24.34	
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering	29.37	
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering	40.28	
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering	52.04	
33 05 07 13-0006	LF	8" Diameter Horizontal Augering	91.18	
33 05 07 13-0007	LF	10" Diameter Horizontal Augering	133.01	
33 05 07 13-0008	LF	12" Diameter Horizontal Augering	159.83	
33 05 07 13-0009	LF	16" Diameter Horizontal Augering	190.94	
33 05 07 13-0010	LF	20" Diameter Horizontal Augering	330.39	
33 05 07 13-0011	LF	24" Diameter Horizontal Augering	411.99	
33 05 07 13-0012	LF	30" Diameter Horizontal Augering	508.16	
33 05 07 13-0013	LF	36" Diameter Horizontal Augering	580.60	
33 05 07 13-0014	LF	42" Diameter Horizontal Augering	736.51	
33 05 07 13-0015	LF	48" Diameter Horizontal Augering	793.61	
33 05 07 13-0016	LF	54" Diameter Horizontal Augering	863.09	
33 05 07 13-0017	LF	60" Diameter Horizontal Augering	904.85	
33 05 07 13-0018	EA	8" To 20" Horizontal Augering Minimum Set-up Charge Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,861.70	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0019	EA	>20" To 36" Horizontal Augering Minimum Set-up Charge Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,224.14	
33 05 07 13-0020	EA	>36" Horizontal Augering Minimum Set-up Charge Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	7,518.72	

33 05 07 13-0021 Horizontal Directional Boring *(33 05 07 13)*

Note: Excludes receiving pits or dewatering or cost of casing pipe.

33 05 07 13-0022	LF	Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	12.63	
		For Horizontal Boring Through Rock, Add	*8.84*	
33 05 07 13-0023	LF	2" Diameter Directional Boring For Horizontal Pipe, Underground	18.95	
		For Horizontal Boring Through Rock, Add	*13.27*	
33 05 07 13-0024	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	26.32	
		For Horizontal Boring Through Rock, Add	*18.42*	
33 05 07 13-0025	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground	32.64	
		For Horizontal Boring Through Rock, Add	*22.85*	
33 05 07 13-0026	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground	38.96	
		For Horizontal Boring Through Rock, Add	*27.27*	
33 05 07 13-0027	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground	45.28	
		For Horizontal Boring Through Rock, Add	*31.70*	
33 05 07 13-0028	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground	52.65	
		For Horizontal Boring Through Rock, Add	*36.86*	
33 05 07 13-0029	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground	64.36	
		For Horizontal Boring Through Rock, Add	*45.05*	
33 05 07 13-0030	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground	69.72	
		For Horizontal Boring Through Rock, Add	*48.80*	
33 05 07 13-0031	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground	75.08	
		For Horizontal Boring Through Rock, Add	*52.56*	
33 05 07 13-0032	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground	155.54	
		For Horizontal Boring Through Rock, Add	*108.88*	
33 05 07 13-0033	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground	243.40	
		For Horizontal Boring Through Rock, Add	*170.38*	
33 05 07 13-0034	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground	371.03	
		For Horizontal Boring Through Rock, Add	*259.72*	
33 05 07 13-0035	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground	593.65	
		For Horizontal Boring Through Rock, Add	*415.56*	
33 05 07 13-0036	EA	Up To 6" Horizontal Directional Boring Minimum Set-up Charge Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,369.51	
33 05 07 13-0037	EA	>6" To 18" Horizontal Directional Boring Minimum Set-up Charge Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,861.70	
33 05 07 13-0038	EA	>18" To 36" Horizontal Directional Boring Minimum Set-up Charge Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,224.14	

33 05 07 23 Utility Boring and Jacking *(33 05 07)*

33 05 07 23-0001 Horizontal Jacking *(33 05 07 23)*

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking	52.32	
		For Horizontal Jacking Through Rock, Add	*28.27*	
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking	62.84	
		For Horizontal Jacking Through Rock, Add	*34.11*	
33 05 07 23-0004	LF	4" Diameter Horizontal Jacking	85.28	
		For Horizontal Jacking Through Rock, Add	*46.78*	
33 05 07 23-0005	LF	6" Diameter Horizontal Jacking	110.19	
		For Horizontal Jacking Through Rock, Add	*60.42*	
33 05 07 23-0006	LF	8" Diameter Horizontal Jacking	149.80	
		For Horizontal Jacking Through Rock, Add	*82.83*	
33 05 07 23-0007	LF	10" Diameter Horizontal Jacking	219.31	
		For Horizontal Jacking Through Rock, Add	*120.86*	
33 05 07 23-0008	LF	12" Diameter Horizontal Jacking	263.88	
		For Horizontal Jacking Through Rock, Add	*145.22*	
33 05 07 23-0009	LF	16" Diameter Horizontal Jacking	315.11	
		For Horizontal Jacking Through Rock, Add	*173.49*	
33 05 07 23-0010	LF	20" Diameter Horizontal Jacking	507.27	
		For Horizontal Jacking Through Rock, Add	*301.16*	
33 05 07 23-0011	LF	24" Diameter Horizontal Jacking	754.10	
		For Horizontal Jacking Through Rock, Add	*337.98*	
33 05 07 23-0012	LF	30" Diameter Horizontal Jacking	889.17	
		For Horizontal Jacking Through Rock, Add	*417.34*	
33 05 07 23-0013	LF	36" Diameter Horizontal Jacking	1,007.22	
		For Horizontal Jacking Through Rock, Add	*477.19*	
33 05 07 23-0014	LF	42" Diameter Horizontal Jacking	1,083.38	
		For Horizontal Jacking Through Rock, Add	*515.31*	
33 05 07 23-0015	LF	48" Diameter Horizontal Jacking	1,172.97	
		For Horizontal Jacking Through Rock, Add	*555.23*	
33 05 07 23-0016	LF	54" Diameter Horizontal Jacking	1,259.20	
		For Horizontal Jacking Through Rock, Add	*604.28*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0017	EA	Up To 6" Horizontal Jacking Minimum Set-up Charge Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,369.51	
33 05 07 23-0018	EA	>6" To 20" Horizontal Jacking Minimum Set-up Charge Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,861.70	
33 05 07 23-0019	EA	>20" To 36" Horizontal Jacking Minimum Set-up Charge Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,224.14	
33 05 07 23-0020	EA	>36" Horizontal Jacking Minimum Set-up Charge Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	7,518.72	

33 05 07 24 Casing Piping for Utility Jacking *(33 05 07)*

33 05 07 24-0001 Casing Pipe *(33 05 07 24)*

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002 Steel Pipe *(33 05 07 24-0001)*

33 05 07 24-0003	LF	1-1/2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	12.43	
33 05 07 24-0004	LF	2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	13.19	
33 05 07 24-0005	LF	2-1/2" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	14.20	
33 05 07 24-0006	LF	3" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	15.24	
33 05 07 24-0007	LF	4" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	19.07	
33 05 07 24-0008	LF	5" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	21.46	
33 05 07 24-0009	LF	6" Steel Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	23.86	

33 05 07 24-0010 Polyethylene Pipe *(33 05 07 24-0001)*

33 05 07 24-0011	LF	3/4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	4.89	
33 05 07 24-0012	LF	1" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	5.36	
33 05 07 24-0013	LF	1-1/4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	5.82	
33 05 07 24-0014	LF	1-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	6.22	
33 05 07 24-0015	LF	2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	6.66	
33 05 07 24-0016	LF	2-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	7.11	
33 05 07 24-0017	LF	3" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	7.58	
33 05 07 24-0018	LF	4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	9.13	
33 05 07 24-0019	LF	5" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	10.07	
33 05 07 24-0020	LF	6" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	11.03	
33 05 07 24-0021	LF	8" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	14.27	
33 05 07 24-0022	LF	10" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	19.30	

33 05 09 Piping Specials for Utilities *(33 05)*

33 05 09 23 Adapters for Utility Piping *(33 05 09)*

See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.

33 05 09 33 Thrust Restraint for Utility Piping *(33 05 09)*

See CSI section 33 14 13 13-0545 for mechanical restraints, 33 14 13 13-0580 for flanged restraints, 33 14 13 13-1152 for slip-on restraints, 33 14 13 13-1168 for slip-on restraint harnesses.

33 05 16 Cast-Iron Utility Pipe *(33 05)*

See CSI section 22 13 16 00-0019 for cast iron utility piping.

33 05 17 Copper Utility Pipe and Tubing *(33 05)*

See CSI section 33 14 13 39-0000 for copper utility piping.

33 05 19 Ductile-Iron Utility Pipe *(33 05)*

See CSI section 33 14 13 13-0000 for ductile iron utility piping.

33 05 24 Steel Utility Pipe *(33 05)*

33 05 24 23 Steel Pipe for Water Service *(33 05 24)*

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CSI	MINOR UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.

33 05 27 Corrugated Metal Utility Pipe *(33 05)*

33 05 27 13 Corrugated Metal Culvert Pipe *(33 05 27)*
See CSI section 33 42 11 00-0437 for corrugated metal culvert pipe.

33 05 27 23 Corrugated Metal Slotted Pipe *(33 05 27)*
See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.

33 05 27 33 Corrugated Metal Culvert Arch Pipe *(33 05 27)*
See CSI section 33 42 11 00-0781 for corrugated metal culvert arch pipe.

33 05 31 Thermoplastic Utility Pipe *(33 05)*

33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe *(33 05 31)*
See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.

33 05 31 13 Polyvinyl Chloride Pressure Pipe *(33 05 31)*
See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.

33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) *(33 05 31)*
See CSI section 33 14 13 23-0171 for AWWA C900 and 905 polyvinyl chloride pressure pipe.

33 05 33 Polyethylene Utility Pipe *(33 05)*

33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe *(33 05 33)*
See CSI section 33 42 11 00-0209 for corrugated-wall smooth interior HDPE gravity pipe.

33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) *(33 05 33)*
See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.

33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe *(33 05 33)*
See CSI section 33 42 11 00-0231 for corrugated perforated HDPE drainage pipe.

33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe *(33 05 33)*
See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.

33 05 33 53 HDPE Gas Utility Pipe *(33 05 33)*
See CSI section 33 52 16 26-0001 for high-density polyethylene gas utility pipe.

33 05 33 56 Medium-Density Polyethylene Gas Utility Pipe *(33 05 33)*
See CSI section 33 52 16 23-0000 for Medium-Density Polyethylene Gas Utility Pipe.

33 05 33 63 HDPE Communication Duct *(33 05 33)*

33 05 33 63-0001 ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine *(33 05 33 63)*
Note: Excludes boring.

33 05 33 63-0002	LF	1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.11
		For Up To 250, Add	*0.08*
		For >250 To 500, Add	*0.05*
33 05 33 63-0003	LF	1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.46
		For Up To 250, Add	*0.10*
		For >250 To 500, Add	*0.06*
33 05 33 63-0004	LF	1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.75
		For Up To 250, Add	*0.11*
		For >250 To 500, Add	*0.07*
33 05 33 63-0005	LF	2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	4.09
		For Up To 250, Add	*0.13*
		For >250 To 500, Add	*0.09*
33 05 33 63-0006	LF	3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	5.30
		For Up To 250, Add	*0.27*
		For >250 To 500, Add	*0.18*
33 05 33 63-0007	LF	4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	6.53
		For Up To 250, Add	*0.41*
		For >250 To 500, Add	*0.28*
33 05 33 63-0008	LF	1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.16
		For Up To 250, Add	*0.09*
		For >250 To 500, Add	*0.06*
33 05 33 63-0009	LF	1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.56
		For Up To 250, Add	*0.11*
		For >250 To 500, Add	*0.07*
33 05 33 63-0010	LF	1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	3.84
		For Up To 250, Add	*0.12*
		For >250 To 500, Add	*0.08*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0011	LF	2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	4.30	
		For Up To 250, Add	*0.16*	
		For >250 To 500, Add	*0.11*	
33 05 33 63-0012	LF	3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	5.76	
		For Up To 250, Add	*0.34*	
		For >250 To 500, Add	*0.23*	
33 05 33 63-0013	LF	4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine	7.11	
		For Up To 250, Add	*0.50*	
		For >250 To 500, Add	*0.33*	

33 05 39 Concrete Pipe *(33 05)*

33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) *(33 05 39)*

See CSI section 33 42 11 00-0062 for prestressed concrete pressure pipe.

33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts *(33 05 39)*

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

33 05 41 Vitrified Clay Utility Pipe *(33 05)*

See CSI section 33 42 11 00-0335 for vitrified clay piping.

33 05 61 Concrete Manholes *(33 05)*

33 05 61 00-0001 Manholes *(33 05 61)*

33 05 61 00-0002 Precast Concrete Manholes *(33 05 61 00-0001)*

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.
See CSI section 33 05 84 00-0002 for top slabs.

33 05 61 00-0003 3' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0004	EA	4' Deep, 3' Diameter, Precast Concrete Manhole	1,244.72	269.04
		For Bitumastic Coating, Add	*50.71*	
		For Epoxy Coating, Add	*96.90*	
33 05 61 00-0005	EA	6' Deep, 3' Diameter, Precast Concrete Manhole	1,706.85	386.43
		For Bitumastic Coating, Add	*76.07*	
		For Epoxy Coating, Add	*145.36*	
33 05 61 00-0006	EA	8' Deep, 3' Diameter, Precast Concrete Manhole	2,335.28	586.99
		For Bitumastic Coating, Add	*101.42*	
		For Epoxy Coating, Add	*193.81*	
33 05 61 00-0007	VLF	Riser For 3' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	250.62	68.48
		For Bitumastic Coating, Add	*12.68*	
		For Epoxy Coating, Add	*24.23*	
33 05 61 00-0008	VLF	Drop Collar For 3' Diameter, Precast Concrete Manhole	267.30	68.48
33 05 61 00-0009	EA	Drop Base For 3' Diameter, Precast Concrete Manhole	406.06	68.48
33 05 61 00-0010	EA	Extended Base Slab For 3' Diameter, Precast Concrete Manhole	331.54	68.48
33 05 61 00-0011	EA	Precast Channel For 3' Diameter, Precast Concrete Manhole	458.46	68.48

33 05 61 00-0012 4' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0013	EA	4' Deep, 4' Diameter, Precast Concrete Manhole	1,734.25	308.17
		For Bitumastic Coating, Add	*50.71*	
		For Epoxy Coating, Add	*96.90*	
33 05 61 00-0014	EA	6' Deep, 4' Diameter, Precast Concrete Manhole	2,320.06	420.67
		For Bitumastic Coating, Add	*76.07*	
		For Epoxy Coating, Add	*145.36*	
33 05 61 00-0015	EA	8' Deep, 4' Diameter, Precast Concrete Manhole	3,102.33	635.90
		For Bitumastic Coating, Add	*101.42*	
		For Epoxy Coating, Add	*193.81*	
33 05 61 00-0016	VLF	Riser For 4' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	338.14	80.71
		For Bitumastic Coating, Add	*12.68*	
		For Epoxy Coating, Add	*24.23*	
33 05 61 00-0017	VLF	Drop Collar For 4' Diameter, Precast Concrete Manhole	364.42	80.71
33 05 61 00-0018	EA	Drop Base For 4' Diameter, Precast Concrete Manhole	583.13	80.71
33 05 61 00-0019	EA	Extended Base Slab For 4' Diameter, Precast Concrete Manhole	465.68	80.71
33 05 61 00-0020	EA	Precast Channel For 4' Diameter, Precast Concrete Manhole	665.74	80.71

33 05 61 00-0021 5' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0022	EA	4' Deep, 5' Diameter, Precast Concrete Manhole	3,132.65	342.41
		For Bitumastic Coating, Add	*65.34*	
		For Epoxy Coating, Add	*156.22*	
33 05 61 00-0023	EA	6' Deep, 5' Diameter, Precast Concrete Manhole	4,178.12	469.59
		For Bitumastic Coating, Add	*98.01*	
		For Epoxy Coating, Add	*234.33*	
33 05 61 00-0024	EA	8' Deep, 5' Diameter, Precast Concrete Manhole	5,441.35	704.39
		For Bitumastic Coating, Add	*130.68*	
		For Epoxy Coating, Add	*312.44*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0025	VLF	Riser For 5' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	573.19	88.05
		For Bitumastic Coating, Add	*16.33*	
		For Epoxy Coating, Add	*39.05*	

33 05 61 00-0026 6' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0027	EA	4' Deep, 6' Diameter, Precast Concrete Manhole	4,161.90	381.54
		For Bitumastic Coating, Add	*74.80*	
		For Epoxy Coating, Add	*182.89*	
33 05 61 00-0028	EA	6' Deep, 6' Diameter, Precast Concrete Manhole	5,433.60	518.50
		For Bitumastic Coating, Add	*112.20*	
		For Epoxy Coating, Add	*274.34*	
33 05 61 00-0029	EA	8' Deep, 6' Diameter, Precast Concrete Manhole	6,949.09	782.65
		For Bitumastic Coating, Add	*149.60*	
		For Epoxy Coating, Add	*365.78*	
33 05 61 00-0030	VLF	Riser For 6' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	691.51	97.83
		For Bitumastic Coating, Add	*18.70*	
		For Epoxy Coating, Add	*45.72*	

33 05 61 00-0031 7' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0032	EA	4' Deep, 7' Diameter, Precast Concrete Manhole	6,467.54	420.67
		For Bitumastic Coating, Add	*159.07*	
		For Epoxy Coating, Add	*319.59*	
33 05 61 00-0033	EA	6' Deep, 7' Diameter, Precast Concrete Manhole	8,378.98	573.78
		For Bitumastic Coating, Add	*238.60*	
		For Epoxy Coating, Add	*479.39*	
33 05 61 00-0034	EA	8' Deep, 7' Diameter, Precast Concrete Manhole	10,558.46	860.91
		For Bitumastic Coating, Add	*318.14*	
		For Epoxy Coating, Add	*639.18*	
33 05 61 00-0035	VLF	Riser For 7' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	1,017.83	107.61
		For Bitumastic Coating, Add	*39.77*	
		For Epoxy Coating, Add	*79.90*	

33 05 61 00-0036 8' Diameter, Precast Concrete Manholes *(33 05 61 00-0002)*

33 05 61 00-0037	EA	4' Deep, 8' Diameter, Precast Concrete Manhole	9,295.08	484.26
		For Bitumastic Coating, Add	*188.05*	
		For Epoxy Coating, Add	*389.55*	
33 05 61 00-0038	EA	6' Deep, 8' Diameter, Precast Concrete Manhole	12,069.26	660.36
		For Bitumastic Coating, Add	*282.08*	
		For Epoxy Coating, Add	*584.33*	
33 05 61 00-0039	EA	8' Deep, 8' Diameter, Precast Concrete Manhole	15,151.61	990.55
		For Bitumastic Coating, Add	*376.11*	
		For Epoxy Coating, Add	*779.11*	
33 05 61 00-0040	VLF	Riser For 8' Diameter, Precast Concrete Manhole Note: For depths greater than 8'.	1,455.58	122.29
		For Bitumastic Coating, Add	*47.01*	
		For Epoxy Coating, Add	*97.39*	

33 05 63 Concrete Vaults and Chambers *(33 05)*

33 05 63 00-0001 Underground Utility Vaults And Structures *(33 05 63)*

See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.

33 05 63 00-0002 Precast Concrete Underground Utility Vault *(33 05 63 00-0001)*

Note: Sizes given are for inside dimensions.

33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault *(33 05 63 00-0002)*

33 05 63 00-0004	EA	4' x 4' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	3,132.90
33 05 63 00-0005	EA	4' x 6' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	4,083.76
33 05 63 00-0006	EA	5' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,737.25
33 05 63 00-0007	EA	5' x 12' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,779.25
33 05 63 00-0008	EA	6' x 6' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	5,218.86
33 05 63 00-0009	EA	6' x 8' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,352.93
33 05 63 00-0010	EA	6' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,488.03
33 05 63 00-0011	EA	6' x 12' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	10,818.75
33 05 63 00-0012	EA	6' x 14' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	10,818.75
33 05 63 00-0013	EA	6' x 16' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	13,622.52
33 05 63 00-0014	EA	8' x 8' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,672.26

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0015	EA	8' x 10' x 6' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,990.61	
33 05 63 00-0016	EA	8' x 12' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	12,851.31	
33 05 63 00-0017	EA	8' x 14' x 6' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	14,464.10	

33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault *(33 05 63 00-0002)*

33 05 63 00-0019	EA	4' x 4' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	3,448.99	
33 05 63 00-0020	EA	4' x 6' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	4,478.39	
33 05 63 00-0021	EA	4' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	5,507.77	
33 05 63 00-0022	EA	5' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,328.72	
33 05 63 00-0023	EA	5' x 12' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,450.22	
33 05 63 00-0024	EA	6' x 6' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	5,692.01	
33 05 63 00-0025	EA	6' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,905.64	
33 05 63 00-0026	EA	6' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,119.24	
33 05 63 00-0027	EA	6' x 12' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	11,765.07	
33 05 63 00-0028	EA	6' x 16' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	14,779.23	
33 05 63 00-0029	EA	8' x 8' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,303.46	
33 05 63 00-0030	EA	8' x 10' x 7' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,700.35	
33 05 63 00-0031	EA	8' x 12' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	13,903.40	
33 05 63 00-0032	EA	8' x 14' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	15,619.82	
33 05 63 00-0033	EA	10' x 10' x 7' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	14,113.07	

33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault *(33 05 63 00-0002)*

33 05 63 00-0035	EA	4' x 4' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	3,764.10	
33 05 63 00-0036	EA	4' x 6' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	4,873.02	
33 05 63 00-0037	EA	5' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,920.17	
33 05 63 00-0038	EA	5' x 12' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	9,120.20	
33 05 63 00-0039	EA	6' x 6' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,165.17	
33 05 63 00-0040	EA	6' x 8' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,457.34	
33 05 63 00-0041	EA	6' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,749.51	
33 05 63 00-0042	EA	6' x 12' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	12,711.37	
33 05 63 00-0043	EA	6' x 16' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	15,936.01	
33 05 63 00-0044	EA	8' x 8' x 8\ Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,933.70	
33 05 63 00-0045	EA	8' x 10' x 8' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	10,410.08	
33 05 63 00-0046	EA	8' x 12' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	14,954.42	
33 05 63 00-0047	EA	8' x 14' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	16,776.59	
33 05 63 00-0048	EA	10' x 10' x 8' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	15,164.83	

33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault *(33 05 63 00-0002)*

33 05 63 00-0050	EA	6' x 6' x 10' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	6,638.35	
33 05 63 00-0051	EA	6' x 8' x 10' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,009.02	
33 05 63 00-0052	EA	10' x 10' x 10' Precast Concrete Underground Utility Vault Note: 8" thick walls and top.	16,215.80	

33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault *(33 05 63 00-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0054	EA	6' x 6' x 12' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	7,111.52	
33 05 63 00-0055	EA	6' x 8' x 12' Precast Concrete Underground Utility Vault Note: 6" thick walls and 8" thick top.	8,561.71	

33 05 63 00-0056 Meter Pit *(33 05 63 00-0001)*

33 05 63 00-0057 Precast Concrete Meter Pit *(33 05 63 00-0056)*

33 05 63 00-0058	EA	4' x 4' x 4' Deep Precast Concrete Meter Pit	2,227.67	
33 05 63 00-0059	EA	4' x 4' x 6' Deep Precast Concrete Meter Pit	2,966.08	
33 05 63 00-0060	EA	4' x 4' x 8' Deep Precast Concrete Meter Pit	3,645.23	
33 05 63 00-0061	EA	4' x 4' x 10' Deep Precast Concrete Meter Pit	4,470.88	
33 05 63 00-0062	EA	4' x 4' x 15' Deep Precast Concrete Meter Pit	6,022.89	
33 05 63 00-0063	EA	6' x 6' x 4' Deep Precast Concrete Meter Pit	3,327.14	
33 05 63 00-0064	EA	6' x 6' x 6' Deep Precast Concrete Meter Pit	4,470.88	
33 05 63 00-0065	EA	6' x 6' x 8' Deep Precast Concrete Meter Pit	5,684.60	
33 05 63 00-0066	EA	6' x 6' x 10' Deep Precast Concrete Meter Pit	7,094.74	
33 05 63 00-0067	EA	6' x 6' x 15' Deep Precast Concrete Meter Pit	9,760.84	

33 05 63 00-0068 Handhole Or Pull Box Enclosures *(33 05 63 00-0001)*

33 05 63 00-0069 Polymer Concrete Handhole Enclosures *(33 05 63 00-0068)*

33 05 63 00-0070 Polymer Concrete Handhole Enclosures *(33 05 63 00-0069)*

33 05 63 00-0071 Flared Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0070)*

33 05 63 00-0072 Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0071)*

33 05 63 00-0073	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	245.00	22.14
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	222.26	49.18
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	338.87	73.77
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	389.63	73.77
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	372.86	73.77
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	446.06	73.77
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	435.01	73.77
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	583.23	73.77
33 05 63 00-0081	EA	27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	826.10	98.36
33 05 63 00-0082	EA	27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,145.09	98.36
33 05 63 00-0083	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	766.37	135.24
33 05 63 00-0084	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	866.27	135.24
33 05 63 00-0085	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,385.93	135.24
33 05 63 00-0086	EA	39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	819.50	147.54
33 05 63 00-0087	EA	39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,146.71	147.54
33 05 63 00-0088	EA	39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,414.29	147.54
33 05 63 00-0089	EA	39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,047.18	147.54
33 05 63 00-0090	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,185.96	225.25
33 05 63 00-0091	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,678.43	225.25

33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0071)*

33 05 63 00-0093	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	311.31	22.14
33 05 63 00-0094	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	417.84	73.77
33 05 63 00-0095	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	499.54	73.77
33 05 63 00-0096	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	462.97	73.77
33 05 63 00-0097	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	525.53	73.77

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0098	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	541.94	73.77
33 05 63 00-0099	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	691.08	73.77
33 05 63 00-0100	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	934.30	135.24
33 05 63 00-0101	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,034.19	135.24
33 05 63 00-0102	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,553.87	135.24
33 05 63 00-0103	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,382.19	225.25
33 05 63 00-0104	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,878.41	225.25
33 05 63 00-0105		Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0070)*		
33 05 63 00-0106		Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0105)*		
33 05 63 00-0107	EA	5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	396.63	22.14
33 05 63 00-0108	EA	10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	336.62	22.14
33 05 63 00-0109	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	294.58	73.77
33 05 63 00-0110	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	330.00	73.77
33 05 63 00-0111	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	99.57	22.14
33 05 63 00-0112	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	149.75	22.14
33 05 63 00-0113	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	236.85	22.14
33 05 63 00-0114	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	247.40	22.14
33 05 63 00-0115	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	218.58	49.18
33 05 63 00-0116	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	234.75	49.18
33 05 63 00-0117	EA	8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	147.60	22.14
33 05 63 00-0118	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	167.35	22.14
33 05 63 00-0119	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	233.07	49.18
33 05 63 00-0120	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	260.25	49.18
33 05 63 00-0121	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	242.66	49.18
33 05 63 00-0122	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	296.23	73.77
33 05 63 00-0123	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	322.89	73.77
33 05 63 00-0124	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	342.72	73.77
33 05 63 00-0125	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	372.59	73.77
33 05 63 00-0126	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	432.14	73.77
33 05 63 00-0127	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	468.26	73.77
33 05 63 00-0128	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	507.80	73.77
33 05 63 00-0129	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	532.65	73.77
33 05 63 00-0130	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	638.72	98.36
33 05 63 00-0131	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	658.16	135.24
33 05 63 00-0132	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	831.28	135.24
33 05 63 00-0133	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	991.14	135.24
33 05 63 00-0134	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,092.10	135.24
33 05 63 00-0135	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,192.51	135.24
33 05 63 00-0136	EA	36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,378.09	225.25
33 05 63 00-0137	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,024.18	225.25
33 05 63 00-0138	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,152.40	225.25
33 05 63 00-0139	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,397.58	225.25
33 05 63 00-0140	EA	30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,395.06	225.25
33 05 63 00-0141	EA	30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,486.59	225.25

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0142	EA	30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,662.60	225.25
33 05 63 00-0143	EA	36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,540.89	241.34
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,665.16	241.34
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,823.82	241.34
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,887.30	241.34
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,909.36	241.34
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,151.11	241.34
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,681.63	241.34
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,191.01	241.34
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,461.30	257.42
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,015.52	257.42
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,841.47	257.42

33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0105)*

33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	386.52	73.77
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	439.05	73.77
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	162.53	22.14
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	231.12	22.14
33 05 63 00-0159	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	306.93	22.14
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	317.49	22.14
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	287.61	49.18
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	298.87	49.18
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	313.91	49.18
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	216.25	22.14
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	254.01	22.14
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	313.54	49.18
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	340.73	49.18
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	323.99	49.18
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	386.01	73.77
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	413.01	73.77
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	449.86	73.77
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	479.53	73.77
33 05 63 00-0173	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	538.91	73.77
33 05 63 00-0174	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	575.19	73.77
33 05 63 00-0175	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	614.55	73.77
33 05 63 00-0176	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	639.58	73.77
33 05 63 00-0177	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	786.44	98.36
33 05 63 00-0178	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	826.10	135.24
33 05 63 00-0179	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	999.02	135.24
33 05 63 00-0180	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,158.70	135.24
33 05 63 00-0181	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,259.50	135.24
33 05 63 00-0182	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,360.25	135.24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0183	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,218.56	225.25
33 05 63 00-0184	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,346.97	225.25
33 05 63 00-0185	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,591.96	225.25

33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0105)*

33 05 63 00-0187	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	357.16	73.77
33 05 63 00-0188	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	411.15	73.77
33 05 63 00-0189	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	122.39	22.14
33 05 63 00-0190	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	195.88	22.14
33 05 63 00-0191	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	277.61	22.14
33 05 63 00-0192	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	288.35	22.14
33 05 63 00-0193	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	268.30	49.18
33 05 63 00-0194	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	299.59	49.18
33 05 63 00-0195	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	172.48	22.14
33 05 63 00-0196	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	283.68	49.18
33 05 63 00-0197	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	322.66	49.18
33 05 63 00-0198	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	293.81	49.18
33 05 63 00-0199	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	381.88	73.77
33 05 63 00-0200	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	435.17	73.77
33 05 63 00-0201	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	452.89	73.77
33 05 63 00-0202	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	495.08	73.77
33 05 63 00-0203	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	533.90	73.77
33 05 63 00-0204	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	570.55	73.77
33 05 63 00-0205	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	636.17	73.77
33 05 63 00-0206	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	645.32	73.77
33 05 63 00-0207	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	797.88	98.36
33 05 63 00-0208	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	840.94	135.24
33 05 63 00-0209	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,031.91	135.24
33 05 63 00-0210	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,220.77	135.24
33 05 63 00-0211	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,346.22	135.24
33 05 63 00-0212	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,471.66	135.24
33 05 63 00-0213	EA	36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,611.81	225.25
33 05 63 00-0214	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,257.92	225.25
33 05 63 00-0215	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,396.14	225.25
33 05 63 00-0216	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,641.15	225.25
33 05 63 00-0217	EA	30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,749.22	225.25
33 05 63 00-0218	EA	30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,783.06	225.25
33 05 63 00-0219	EA	30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,111.37	225.25
33 05 63 00-0220	EA	36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,970.52	241.34
33 05 63 00-0221	EA	36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,034.73	241.34
33 05 63 00-0222	EA	36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,216.87	241.34
33 05 63 00-0223	EA	36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,354.73	241.34
33 05 63 00-0224	EA	36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,170.46	241.34
33 05 63 00-0225	EA	36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,663.49	241.34
33 05 63 00-0226	EA	48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,323.96	241.34

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0227	EA	48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,545.18	241.34
33 05 63 00-0228	EA	48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,069.79	257.42
33 05 63 00-0229	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,624.23	257.42
33 05 63 00-0230	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,854.61	257.42

33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0105)*

33 05 63 00-0232	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	449.08	73.77
33 05 63 00-0233	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	520.41	73.77
33 05 63 00-0234	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	184.85	22.14
33 05 63 00-0235	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	277.08	22.14
33 05 63 00-0236	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	347.54	22.14
33 05 63 00-0237	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	358.43	22.14
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	348.78	49.18
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	379.88	49.18
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	261.72	22.14
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	363.79	49.18
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	402.77	49.18
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	352.17	49.18
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	472.02	73.77
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	525.31	73.77
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	559.82	73.77
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	602.03	73.77
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	640.83	73.77
33 05 63 00-0249	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	677.50	73.77
33 05 63 00-0250	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	743.14	73.77
33 05 63 00-0251	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	752.25	73.77
33 05 63 00-0252	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	945.41	98.36
33 05 63 00-0253	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,008.86	135.24
33 05 63 00-0254	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,199.66	135.24
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,388.32	135.24
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,513.86	135.24
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,639.40	135.24
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,452.48	225.25
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,590.89	225.25
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,835.72	225.25

33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures *(33 05 63 00-0105)*

33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	379.58	73.77
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	256.13	49.18
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	286.18	49.18
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	340.57	73.77
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	265.97	49.18
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	294.76	49.18

33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions *(33 05 63 00-0069)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	284.61	73.77
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	315.94	73.77
33 05 63 00-0271	EA	24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	367.64	98.36
33 05 63 00-0272	EA	24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	398.39	98.36
33 05 63 00-0273	EA	24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	478.84	135.24
33 05 63 00-0274	EA	36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	841.77	225.25
33 05 63 00-0275	EA	30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	808.15	225.25
33 05 63 00-0276	EA	30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	815.49	225.25
33 05 63 00-0277	EA	36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,076.39	241.34
33 05 63 00-0278	EA	48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,660.94	257.42
33 05 63 00-0279	EA	48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	2,149.31	257.42
33 05 63 00-0280	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	448.96	73.77
33 05 63 00-0281	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	468.09	73.77
33 05 63 00-0282	EA	24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	507.83	98.36
33 05 63 00-0283	EA	24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	538.91	98.36
33 05 63 00-0284	EA	24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	632.59	135.24
33 05 63 00-0285	EA	30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	1,025.43	225.25
33 05 63 00-0286	EA	13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	355.42	73.77
33 05 63 00-0287	EA	17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	393.16	73.77
33 05 63 00-0288	EA	24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	532.98	135.24
33 05 63 00-0289	EA	36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	1,040.40	241.34

33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers *(33 05 63 00-0069)*

33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers *(33 05 63 00-0290)*

33 05 63 00-0292	EA	5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	95.40	9.85
33 05 63 00-0293	EA	10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	96.61	9.85
33 05 63 00-0294	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	89.71	9.85
33 05 63 00-0295	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	96.84	9.85
33 05 63 00-0296	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	97.76	9.84
33 05 63 00-0297	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	111.81	9.84
33 05 63 00-0298	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	129.18	9.84
33 05 63 00-0299	EA	30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	838.93	28.96
33 05 63 00-0300	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	735.35	28.96
33 05 63 00-0301	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,096.15	28.96
33 05 63 00-0302	EA	48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,108.45	28.96
33 05 63 00-0303	EA	36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,254.44	28.96
33 05 63 00-0304	EA	48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,365.95	28.96
33 05 63 00-0305	EA	48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	2,189.25	28.96
33 05 63 00-0306	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	82.05	9.84
33 05 63 00-0307	EA	11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	116.53	9.84
33 05 63 00-0308	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	118.13	9.84
33 05 63 00-0309	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	148.01	9.84
33 05 63 00-0310	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	112.25	9.84
33 05 63 00-0311	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	174.66	9.84
33 05 63 00-0312	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	137.64	9.84
33 05 63 00-0313	EA	27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	279.95	9.84
33 05 63 00-0314	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	246.79	14.75
33 05 63 00-0315	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	308.39	14.75
33 05 63 00-0316	EA	39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	397.04	17.21
33 05 63 00-0317	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	557.39	22.53
33 05 63 00-0318	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	579.92	42.90
33 05 63 00-0319	EA	11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	149.80	9.84
33 05 63 00-0320	EA	13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	212.57	9.84
33 05 63 00-0321	EA	17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	241.55	9.84
33 05 63 00-0322	EA	27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	400.06	9.84
33 05 63 00-0323	EA	24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	331.47	14.75
33 05 63 00-0324	EA	39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	558.32	17.21
33 05 63 00-0325	EA	36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	732.10	22.53
33 05 63 00-0326	EA	30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	987.44	28.96
33 05 63 00-0327	EA	30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	878.91	28.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0328	EA	36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,224.03	28.96
33 05 63 00-0329	EA	48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,591.08	28.96
33 05 63 00-0330	EA	36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,524.12	28.96
33 05 63 00-0331	EA	48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,308.78	28.96
33 05 63 00-0332	EA	48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	3,561.17	28.96
33 05 63 00-0333	EA	11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	196.31	9.84
33 05 63 00-0334	EA	11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	214.44	9.84
33 05 63 00-0335	EA	13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	281.60	9.84
33 05 63 00-0336	EA	17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	320.58	9.84
33 05 63 00-0337	EA	27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	552.37	9.84
33 05 63 00-0338	EA	24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	403.24	14.75
33 05 63 00-0339	EA	24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	549.99	14.75
33 05 63 00-0340	EA	39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	851.36	17.21
33 05 63 00-0341	EA	36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	975.30	22.53
33 05 63 00-0342	EA	30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,015.36	42.90
33 05 63 00-0343	EA	30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,174.29	28.96
33 05 63 00-0344	EA	36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,635.73	28.96
33 05 63 00-0345	EA	48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,284.77	28.96
33 05 63 00-0346	EA	36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,039.82	28.96
33 05 63 00-0347	EA	48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	3,374.33	28.96
33 05 63 00-0348	EA	48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	5,203.30	28.96

33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets *(33 05 63 00-0290)*

33 05 63 00-0350	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	109.21	9.85
33 05 63 00-0351	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	115.28	9.85
33 05 63 00-0352	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	117.26	9.84
33 05 63 00-0353	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	118.00	9.84
33 05 63 00-0354	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	135.81	9.84
33 05 63 00-0355	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	87.65	9.84
33 05 63 00-0356	EA	11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	122.27	9.84
33 05 63 00-0357	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	123.38	9.84
33 05 63 00-0358	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	153.92	9.84
33 05 63 00-0359	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	118.69	9.84
33 05 63 00-0360	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	144.44	9.84
33 05 63 00-0361	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	180.92	9.84
33 05 63 00-0362	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	250.99	14.75
33 05 63 00-0363	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	314.84	14.75
33 05 63 00-0364	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	586.54	42.90
33 05 63 00-0365	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	73.42	9.85
33 05 63 00-0366	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	113.38	9.85
33 05 63 00-0367	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	125.84	9.85
33 05 63 00-0368	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	120.30	9.85
33 05 63 00-0369	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	99.55	9.84
33 05 63 00-0370	EA	11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	155.52	9.84
33 05 63 00-0371	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	168.46	9.84
33 05 63 00-0372	EA	13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	218.66	9.84
33 05 63 00-0373	EA	17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	248.16	9.84
33 05 63 00-0374	EA	24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	337.38	14.75
33 05 63 00-0375	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	420.33	14.75
33 05 63 00-0376	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	769.83	42.90

33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts *(33 05 63 00-0290)*

33 05 63 00-0378	EA	6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	59.67	9.85
33 05 63 00-0379	EA	7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	70.42	9.85
33 05 63 00-0380	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	84.89	9.85
33 05 63 00-0381	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	91.33	9.85
33 05 63 00-0382	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	91.15	9.84
33 05 63 00-0383	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	107.64	9.84
33 05 63 00-0384	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	123.84	9.84
33 05 63 00-0385	EA	24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	297.83	14.75
33 05 63 00-0386	EA	30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	555.79	42.90
33 05 63 00-0387	EA	30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	829.88	28.96
33 05 63 00-0388	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	725.12	28.96
33 05 63 00-0389	EA	48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,079.33	28.96
33 05 63 00-0390	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,041.87	28.96
33 05 63 00-0391	EA	36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,244.67	28.96
33 05 63 00-0392	EA	48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,329.87	28.96
33 05 63 00-0393	EA	48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,119.92	28.96
33 05 63 00-0394	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	79.00	9.84
33 05 63 00-0395	EA	10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	77.20	9.84
33 05 63 00-0396	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	112.66	9.84
33 05 63 00-0397	EA	11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	123.52	9.84
33 05 63 00-0398	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	139.44	9.84
33 05 63 00-0399	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts	106.70	9.84
33 05 63 00-0400	EA	18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	118.69	9.84
33 05 63 00-0401	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	167.14	9.84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0402	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	241.92	14.75
33 05 63 00-0403	EA	20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	301.17	14.75
33 05 63 00-0404	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	297.66	14.75
33 05 63 00-0405	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	535.39	22.53
33 05 63 00-0406	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	555.79	25.74

33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers *(33 05 63 00-0290)*

33 05 63 00-0408	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	863.63	28.96
33 05 63 00-0409	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,245.92	28.96
33 05 63 00-0410	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	725.11	42.90
33 05 63 00-0411	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	958.49	42.90
33 05 63 00-0412	EA	30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,024.15	28.96
33 05 63 00-0413	EA	36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,392.09	28.96

33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers *(33 05 63 00-0290)*

33 05 63 00-0415	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	337.49	14.75
33 05 63 00-0416	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	626.25	22.53
33 05 63 00-0417	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	655.57	42.90
33 05 63 00-0418	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	56.68	9.85
33 05 63 00-0419	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	91.90	9.85
33 05 63 00-0420	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	100.81	9.85
33 05 63 00-0421	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	106.70	9.85
33 05 63 00-0422	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	94.01	9.84
33 05 63 00-0423	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	163.21	9.84
33 05 63 00-0424	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	450.63	14.75
33 05 63 00-0425	EA	36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	830.30	22.53
33 05 63 00-0426	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	870.88	42.90

33 05 63 00-0427 Precast Concrete Handholes With Steel Cover *(33 05 63 00-0068)*

Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).

33 05 63 00-0428	EA	12" x 12" x 12" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	703.80	212.34
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*18.00*	
33 05 63 00-0429	EA	12" x 24" x 21" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,169.45	318.51
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*98.03*	
33 05 63 00-0430	EA	18" x 30" x 18" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,431.19	424.69
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*169.45*	
33 05 63 00-0431	EA	24" x 24" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,480.86	424.69
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*212.79*	
33 05 63 00-0432	EA	24" x 24" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,752.04	530.85
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*255.09*	
33 05 63 00-0433	EA	30" x 36" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	1,834.84	530.85
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*283.50*	
33 05 63 00-0434	EA	36" x 36" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,128.38	637.03
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*330.21*	
33 05 63 00-0435	EA	48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,447.89	743.20
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*470.30*	
33 05 63 00-0436	EA	48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,373.26	637.03
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*519.53*	
33 05 63 00-0437	EA	54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	2,394.32	637.03
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*349.33*	
33 05 63 00-0438	EA	6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	569.00	212.34
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*15.00*	
33 05 63 00-0439	EA	9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	666.46	238.89
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*15.00*	
33 05 63 00-0440	EA	12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top.	808.25	265.43
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	*15.00*	

33 05 81 Metallic Castings for Utility Structures *(33 05)*

33 05 81 00-0001 Manhole Accessories *(33 05 81)*

33 05 81 00-0002 Steps For Cast-In-Place Manholes *(33 05 81 00-0001)*

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 81 00-0003	EA	Cast Iron Manhole Step For New Manholes	71.74
33 05 81 00-0004	EA	Galvanized Steel Manhole Step For New Manholes	48.30
33 05 81 00-0005	EA	Aluminum Manhole Step For New Manholes	63.20

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 05 81 00-0006 Manhole Covers And Frames *(33 05 81)*
Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0007 Regular Manhole Covers And Frames *(33 05 81 00-0006)*

33 05 81 00-0008	EA	18" Square, Gray Iron, Manhole Cover With Frame	1,058.85	84.13
		For Ductile Iron Castings, Add	*563.14*	
33 05 81 00-0009	EA	18" Diameter, Gray Iron, Manhole Cover With Frame	644.86	84.13
		For Ductile Iron Castings, Add	*273.35*	
33 05 81 00-0010	EA	24" Diameter, Gray Iron, Manhole Cover With Frame	745.00	97.83
		For Ductile Iron Castings, Add	*316.05*	
33 05 81 00-0011	EA	24" Square, Gray Iron, Manhole Cover With Frame	1,110.58	108.59
		For Ductile Iron Castings, Add	*549.14*	
33 05 81 00-0012	EA	26" Diameter, Gray Iron, Manhole Cover With Frame	975.93	117.40
		For Ductile Iron Castings, Add	*435.64*	
33 05 81 00-0013	EA	30" Diameter, Gray Iron, Manhole Cover With Frame	1,017.25	122.29
		For Ductile Iron Castings, Add	*455.28*	

33 05 81 00-0014 Watertight Type Manhole Covers And Frames *(33 05 81 00-0006)*

33 05 81 00-0015	EA	20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,164.85	69.46
		For Ductile Iron Castings, Add	*621.86*	
33 05 81 00-0016	EA	22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,190.53	69.46
		For Ductile Iron Castings, Add	*623.90*	
33 05 81 00-0017	EA	24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,223.25	81.20
		For Ductile Iron Castings, Add	*628.01*	
33 05 81 00-0018	EA	26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,441.53	90.98
		For Ductile Iron Castings, Add	*761.56*	
33 05 81 00-0019	EA	30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,651.19	92.94
		For Ductile Iron Castings, Add	*899.04*	
33 05 81 00-0020	EA	32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,731.58	94.90
		For Ductile Iron Castings, Add	*951.95*	
33 05 81 00-0021	EA	36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,803.92	97.83
		For Ductile Iron Castings, Add	*999.09*	

33 05 81 00-0022 Aluminum Manhole Covers And Frames *(33 05 81 00-0006)*

33 05 81 00-0023	EA	12" Square Aluminum Manhole Cover With Frame	741.54	26.65
33 05 81 00-0024	EA	18" Square Aluminum Manhole Cover With Frame	1,340.34	29.50
33 05 81 00-0025	EA	24" Square Aluminum Manhole Cover With Frame	1,915.03	34.26

33 05 81 00-0026 Remove And Reinstall Manhole Cover And Frame *(33 05 81 00-0006)*
Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.

33 05 81 00-0027	EA	Removal And Reinstallation Of Manhole Cover And Frame	392.24	

33 05 83 Non-Metallic Accessories for Utility Structures *(33 05)*

33 05 83 00-0001 Manhole Accessories *(33 05 83)*

33 05 83 00-0002 Steps For Cast-In-Place Manholes *(33 05 83 00-0001)*
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 83 00-0003	EA	Polypropylene Manhole Step For New Manholes	38.01	

33 05 83 00-0004 Rainguard Inflow Protectors *(33 05 83)*

33 05 83 00-0005	EA	18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	114.47	20.98
33 05 83 00-0006	EA	22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	129.44	20.98
33 05 83 00-0007	EA	24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	154.84	25.18
33 05 83 00-0008	EA	26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	164.30	25.18
33 05 83 00-0009	EA	30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	202.17	29.37
33 05 83 00-0010	EA	32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	213.78	29.37

33 05 84 Accessories for Utility Structures *(33 05)*

See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 05 84 00-0001 Manhole Accessories *(33 05 84)*

33 05 84 00-0002 Precast Concrete Manhole Tops *(33 05 84 00-0001)*

33 05 84 00-0003 Precast Concrete Manhole Slab Tops *(33 05 84 00-0002)*

33 05 84 00-0004	EA	3' Diameter x 8" Thick Precast Manhole Top Slab	478.66	73.37
33 05 84 00-0005	EA	4' Diameter x 8" Thick Precast Manhole Top Slab	646.99	79.24
33 05 84 00-0006	EA	5' Diameter x 8" Thick Precast Manhole Top Slab	853.36	85.11
33 05 84 00-0007	EA	6' Diameter x 8" Thick Precast Manhole Top Slab	1,011.45	90.98

33 05 84 00-0008 Precast Concrete Manhole Cone Tops *(33 05 84 00-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0009	EA	3' Diameter x 8" Thick Precast Manhole Top Cone	737.19	91.72
33 05 84 00-0010	EA	3'-6" Diameter x 8" Thick Precast Manhole Top Cone	813.59	95.39
33 05 84 00-0011	EA	4' Diameter x 8" Thick Precast Manhole Top Cone	890.00	99.05
33 05 84 00-0012	EA	5' Diameter x 8" Thick Precast Manhole Top Cone	1,037.88	105.17
33 05 84 00-0013	EA	6' Diameter x 8" Thick Precast Manhole Top Cone	1,190.68	112.51
33 05 84 00-0014	EA	7' Diameter x 8" Thick Precast Manhole Top Cone	1,830.15	119.84
33 05 84 00-0015	EA	8' Diameter x 10" Thick Precast Manhole Top Cone	2,280.64	132.08

33 05 84 00-0016 Precast Concrete Manhole Reducer Slabs *(33 05 84 00-0002)*

33 05 84 00-0017	EA	5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,055.82	85.11
33 05 84 00-0018	EA	6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,353.36	90.98
33 05 84 00-0019	EA	7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,776.83	90.98
33 05 84 00-0020	EA	8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	2,794.31	90.98
33 05 84 00-0021	EA	10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	3,585.88	90.98
33 05 84 00-0022	EA	12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	5,179.88	90.98

33 05 84 00-0023 Pipe To Manhole Connector *(33 05 84 00-0001)*

33 05 84 00-0024 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors *(33 05 84 00-0023)*

33 05 84 00-0025	EA	4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	73.90
33 05 84 00-0026	EA	6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	108.30
33 05 84 00-0027	EA	8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	122.11
33 05 84 00-0028	EA	10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	183.90
33 05 84 00-0029	EA	12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	256.66
33 05 84 00-0030	EA	15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	340.03
33 05 84 00-0031	EA	18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	610.50
33 05 84 00-0032	EA	21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	847.37
33 05 84 00-0033	EA	24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,334.28
33 05 84 00-0034	EA	27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,571.79

33 05 84 00-0035 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout *(33 05 84 00-0023)*

Note: Fernco CMA.

33 05 84 00-0036	EA	4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	93.59
33 05 84 00-0037	EA	6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	128.92
33 05 84 00-0038	EA	8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	162.57
33 05 84 00-0039	EA	10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	196.08
33 05 84 00-0040	EA	12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	227.70

33 05 84 00-0041 Brick And Grout Pipe To Manhole Connector *(33 05 84 00-0023)*

33 05 84 00-0042	EA	Seal Gap Between Pipe And Structure With Brick And Grout	210.73

33 05 84 00-0043 Inverts For Manholes *(33 05 84 00-0001)*

33 05 84 00-0044	EA	Single Channel Concrete Invert For Manholes	362.34
33 05 84 00-0045	EA	Double Channel Concrete Invert For Manholes	522.85
33 05 84 00-0046	EA	Triple Channel Concrete Invert For Manholes	704.08
33 05 84 00-0047	EA	Quad Channel Concrete Invert For Manholes	885.26
33 05 84 00-0048	EA	Single Channel Brick Invert For Manholes	537.74
33 05 84 00-0049	EA	Double Channel Brick Invert For Manholes	804.99
33 05 84 00-0050	EA	Triple Channel Brick Invert For Manholes	1,076.79
33 05 84 00-0051	EA	Quad Channel Brick Invert For Manholes	1,345.60

33 05 84 00-0052 Protective Coating For New Manholes *(33 05 84 00-0001)*

33 05 84 00-0053 Polyurethane Protective Coating For New Manholes *(33 05 84 00-0052)*

33 05 84 00-0054	VLF	60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior	168.47
		For 80 Mil Material, Add	*22.74*
		For 100 Mil Material, Add	*45.48*
		For 125 Mil Material, Add	*71.48*
		For 150 Mil Material, Add	*97.47*
		For 200 Mil Material, Add	*143.00*
		For 2 To 5 Manholes, Deduct	*-11.66*
		For 6 To 10 Manholes, Deduct	*-19.10*
		For >10 Manholes, Deduct	*-38.21*
33 05 84 00-0055	VLF	60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior	203.78
		For 80 Mil Material, Add	*27.08*
		For 100 Mil Material, Add	*54.17*
		For 125 Mil Material, Add	*85.06*
		For 150 Mil Material, Add	*115.95*
		For 200 Mil Material, Add	*169.83*
		For 2 To 5 Manholes, Deduct	*-14.14*
		For 6 To 10 Manholes, Deduct	*-23.19*
		For >10 Manholes, Deduct	*-46.38*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0056	VLF	60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	224.62	
		For 80 Mil Material, Add	*30.32*	
		For 100 Mil Material, Add	*60.64*	
		For 125 Mil Material, Add	*95.30*	
		For 150 Mil Material, Add	*129.97*	
		For 200 Mil Material, Add	*190.67*	
		For 2 To 5 Manholes, Deduct	*-15.54*	
		For 6 To 10 Manholes, Deduct	*-25.47*	
		For >10 Manholes, Deduct	*-50.94*	
33 05 84 00-0057	VLF	60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	280.82	
		For 80 Mil Material, Add	*37.91*	
		For 100 Mil Material, Add	*75.82*	
		For 125 Mil Material, Add	*119.17*	
		For 150 Mil Material, Add	*162.52*	
		For 200 Mil Material, Add	*238.44*	
		For 2 To 5 Manholes, Deduct	*-19.43*	
		For 6 To 10 Manholes, Deduct	*-31.84*	
		For >10 Manholes, Deduct	*-63.68*	
33 05 84 00-0058	VLF	60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	325.47	
		For 80 Mil Material, Add	*44.63*	
		For 100 Mil Material, Add	*89.26*	
		For 125 Mil Material, Add	*140.41*	
		For 150 Mil Material, Add	*191.57*	
		For 200 Mil Material, Add	*281.51*	
		For 2 To 5 Manholes, Deduct	*-22.45*	
		For 6 To 10 Manholes, Deduct	*-36.77*	
		For >10 Manholes, Deduct	*-73.54*	

33 05 84 00-0059 Polyvinyl Chloride (PVC) Liner *(33 05 84 00-0052)*

Note: For new manholes and shop applied.

33 05 84 00-0060	VLF	3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	183.91
33 05 84 00-0061	VLF	3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	225.44
33 05 84 00-0062	VLF	4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	275.11
33 05 84 00-0063	VLF	5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	345.49
33 05 84 00-0064	VLF	6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	415.86
33 05 84 00-0065	SF	Polyvinyl Chloride (PVC) Liner At Structures	35.50

33 05 84 00-0066 Concrete Grade Extensions/Grade Rings *(33 05 84 00-0001)*

33 05 84 00-0067 18" Diameter, Concrete Grade Extensions/Grade Rings *(33 05 84 00-0066)*

33 05 84 00-0068	EA	4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	76.94
33 05 84 00-0069	EA	6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	83.52
33 05 84 00-0070	EA	8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	90.10
33 05 84 00-0071	EA	10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	96.69

33 05 84 00-0072 24" Diameter, Concrete Grade Extensions/Grade Rings *(33 05 84 00-0066)*

33 05 84 00-0073	EA	4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	86.32
33 05 84 00-0074	EA	6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	93.80
33 05 84 00-0075	EA	8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	101.28
33 05 84 00-0076	EA	10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	108.76

33 05 84 00-0077 30" Diameter, Concrete Grade Extensions/Grade Rings *(33 05 84 00-0066)*

33 05 84 00-0078	EA	4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	95.51
33 05 84 00-0079	EA	6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	103.85
33 05 84 00-0080	EA	8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	112.19
33 05 84 00-0081	EA	10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	120.53

33 05 84 00-0082 Bentonite Collar *(33 05 84 00-0001)*

33 05 84 00-0083 Bentonite Collar At Manhole Connections *(33 05 84 00-0082)*

33 05 84 00-0084	EA	Up To 12" Pipe, Bentonite Collar At Manhole Connection	118.92
33 05 84 00-0085	EA	>12" To 21", Bentonite Collar At Manhole Connection	188.56
33 05 84 00-0086	EA	>21" To 30" Pipe, Bentonite Collar At Manhole Connection	300.65
33 05 84 00-0087	EA	>30" To 36" Pipe, Bentonite Collar At Manhole Connection	704.89
33 05 84 00-0088	EA	>36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,087.24
33 05 84 00-0089	EA	>48" To 60" Pipe, Bentonite Collar At Manhole Connection	1,970.68

33 05 84 00-0090 Waste Water Collection System Taps *(33 05 84)*

Note: For tapping existing structures only. Includes grout.

33 05 84 00-0091 Brick Manhole Taps *(33 05 84 00-0090)*

33 05 84 00-0092	EA	4" Tap In 6" Brick Manhole	496.51
33 05 84 00-0093	EA	6" Tap In 6" Brick Manhole	555.00
33 05 84 00-0094	EA	8" Tap In 6" Brick Manhole	612.43
33 05 84 00-0095	EA	10" Tap In 6" Brick Manhole	669.75
33 05 84 00-0096	EA	12" Tap In 6" Brick Manhole	738.45
33 05 84 00-0097	EA	15" Tap In 6" Brick Manhole	795.66

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0098		Precast Concrete Manhole Tap *(33 05 84 00-0090)*		
33 05 84 00-0099	EA	4" Tap In Existing Precast Concrete Manhole	721.39	
33 05 84 00-0100	EA	6" Tap In Existing Precast Concrete Manhole	809.12	
33 05 84 00-0101	EA	8" Tap In Existing Precast Concrete Manhole	903.23	
33 05 84 00-0102	EA	10" Tap In Existing Precast Concrete Manhole	989.22	
33 05 84 00-0103	EA	12" Tap In Existing Precast Concrete Manhole	1,075.03	
33 05 84 00-0104	EA	15" Tap In Existing Precast Concrete Manhole	1,162.94	
33 05 84 00-0105	EA	18" Tap In Existing Precast Concrete Manhole	1,332.64	
33 05 84 00-0106	EA	24" Tap In Existing Precast Concrete Manhole	1,709.16	

33 05 97 Identification and Signage for Utilities *(33 05)*

33 05 97 23 Utility Identification Warning Tape *(33 05 97)*

33 05 97 23-0001 Non-Detectable Utility Warning Tape *(33 05 97 23)*
Note: Labor installation is included with pipe and excavation..

33 05 97 23-0002	CLF	3" Non-Detectable Utility Warning Tape	6.48	
33 05 97 23-0003	CLF	6" Non-Detectable Utility Warning Tape	8.71	

33 05 97 23-0004 Detectable Utility Warning Tape *(33 05 97 23)*
Note: Labor installation is included with pipe and excavation..

33 05 97 23-0005	CLF	2" Detectable Utility Warning Tape	6.43	
33 05 97 23-0006	CLF	3" Detectable Utility Warning Tape	8.49	
33 05 97 23-0007	CLF	6" Detectable Utility Warning Tape	12.95	

33 10 Water Utilities *(33)*

33 11 Groundwater Sources *(33 10)*

33 11 13 Potable Water Supply Wells *(33 11)*

33 11 13 00-0001 Drill And Test Water Well *(33 11 13)*

33 11 13 00-0002 Drill Hole *(33 11 13 00-0001)*
Note: Excludes loading and hauling of spoils.

33 11 13 00-0003 Mobilization And Demobilization *(33 11 13 00-0002)*

33 11 13 00-0004	EA	Up To 12" Diameter, Well Drilling Mobilization And Demobilization	926.41	
33 11 13 00-0005	EA	>12" To 24" Diameter, Well Drilling Mobilization And Demobilization	1,139.90	
33 11 13 00-0006	EA	>24" To 36" Diameter, Well Drilling Mobilization And Demobilization	1,709.86	

33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. *(33 11 13 00-0002)*
Note: Excludes well casing, gravel or materials.

33 11 13 00-0008	LF	Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	22.09	
		For >100 To 250, Add	*0.55*	
		For >250 To 400, Add	*1.10*	
		For >400 To 600, Add	*1.66*	
		For >600 To 750, Add	*2.21*	
		For >750, Add	*2.76*	
33 11 13 00-0009	LF	8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	26.21	
		For >100 To 250, Add	*0.66*	
		For >250 To 400, Add	*1.31*	
		For >400 To 600, Add	*1.97*	
		For >600 To 750, Add	*2.62*	
		For >750, Add	*3.28*	
33 11 13 00-0010	LF	10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	35.05	
		For >100 To 250, Add	*0.88*	
		For >250 To 400, Add	*1.75*	
		For >400 To 600, Add	*2.63*	
		For >600 To 750, Add	*3.51*	
		For >750, Add	*4.38*	
33 11 13 00-0011	LF	12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	54.86	
		For >100 To 250, Add	*1.37*	
		For >250 To 400, Add	*2.74*	
		For >400 To 600, Add	*4.11*	
		For >600 To 750, Add	*5.49*	
		For >750, Add	*6.86*	
33 11 13 00-0012	LF	14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	78.94	
		For >100 To 250, Add	*1.97*	
		For >250 To 400, Add	*3.95*	
		For >400 To 600, Add	*5.92*	
		For >600 To 750, Add	*7.89*	
		For >750, Add	*9.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0013	LF	16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	103.16	
		For >100 To 250, Add	*2.58*	
		For >250 To 400, Add	*5.16*	
		For >400 To 600, Add	*7.74*	
		For >600 To 750, Add	*10.32*	
		For >750, Add	*12.90*	
33 11 13 00-0014	LF	18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	122.54	
		For >100 To 250, Add	*3.06*	
		For >250 To 400, Add	*6.13*	
		For >400 To 600, Add	*9.19*	
		For >600 To 750, Add	*12.25*	
		For >750, Add	*15.32*	
33 11 13 00-0015	LF	20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	142.49	
		For >100 To 250, Add	*3.56*	
		For >250 To 400, Add	*7.12*	
		For >400 To 600, Add	*10.69*	
		For >600 To 750, Add	*14.25*	
		For >750, Add	*17.81*	
33 11 13 00-0016	LF	22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	167.43	
		For >100 To 250, Add	*4.19*	
		For >250 To 400, Add	*8.37*	
		For >400 To 600, Add	*12.56*	
		For >600 To 750, Add	*16.74*	
		For >750, Add	*20.93*	
33 11 13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	197.34	
		For >100 To 250, Add	*4.93*	
		For >250 To 400, Add	*9.87*	
		For >400 To 600, Add	*14.80*	
		For >600 To 750, Add	*19.73*	
		For >750, Add	*24.67*	
33 11 13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	213.30	
		For >100 To 250, Add	*5.33*	
		For >250 To 400, Add	*10.67*	
		For >400 To 600, Add	*16.00*	
		For >600 To 750, Add	*21.33*	
		For >750, Add	*26.66*	
33 11 13 00-0019	LF	28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	234.67	
		For >100 To 250, Add	*5.87*	
		For >250 To 400, Add	*11.73*	
		For >400 To 600, Add	*17.60*	
		For >600 To 750, Add	*23.47*	
		For >750, Add	*29.33*	
33 11 13 00-0020	LF	30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	257.05	
		For >100 To 250, Add	*6.43*	
		For >250 To 400, Add	*12.85*	
		For >400 To 600, Add	*19.28*	
		For >600 To 750, Add	*25.71*	
		For >750, Add	*32.13*	
33 11 13 00-0021	LF	36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	319.74	
		For >100 To 250, Add	*7.99*	
		For >250 To 400, Add	*15.99*	
		For >400 To 600, Add	*23.98*	
		For >600 To 750, Add	*31.97*	
		For >750, Add	*39.97*	

33 11 13 00-0022 Drill Hole In Sedimentary Rock *(33 11 13 00-0002)*

33 11 13 00-0023	LF	6" Water Well Hole Drilled In Sedimentary Rock	45.02	
		For >100 To 250, Add	*1.13*	
		For >250 To 400, Add	*2.25*	
		For >400 To 600, Add	*3.38*	
		For >600 To 750, Add	*4.50*	
		For >750, Add	*5.63*	
33 11 13 00-0024	LF	8" Water Well Hole Drilled In Sedimentary Rock	52.44	
		For >100 To 250, Add	*1.31*	
		For >250 To 400, Add	*2.62*	
		For >400 To 600, Add	*3.93*	
		For >600 To 750, Add	*5.24*	
		For >750, Add	*6.56*	
33 11 13 00-0025	LF	10" Water Well Hole Drilled In Sedimentary Rock	83.95	
		For >100 To 250, Add	*2.10*	
		For >250 To 400, Add	*4.20*	
		For >400 To 600, Add	*6.30*	
		For >600 To 750, Add	*8.40*	
		For >750, Add	*10.49*	
33 11 13 00-0026	LF	12" Water Well Hole Drilled In Sedimentary Rock	109.77	
		For >100 To 250, Add	*2.74*	
		For >250 To 400, Add	*5.49*	
		For >400 To 600, Add	*8.23*	
		For >600 To 750, Add	*10.98*	
		For >750, Add	*13.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0027	LF	14" Water Well Hole Drilled In Sedimentary Rock	157.99	
		For >100 To 250, Add	*3.95*	
		For >250 To 400, Add	*7.90*	
		For >400 To 600, Add	*11.85*	
		For >600 To 750, Add	*15.80*	
		For >750, Add	*19.75*	
33 11 13 00-0028	LF	16" Water Well Hole Drilled In Sedimentary Rock	206.21	
		For >100 To 250, Add	*5.16*	
		For >250 To 400, Add	*10.31*	
		For >400 To 600, Add	*15.47*	
		For >600 To 750, Add	*20.62*	
		For >750, Add	*25.78*	
33 11 13 00-0029	LF	18" Water Well Hole Drilled In Sedimentary Rock	245.19	
		For >100 To 250, Add	*6.13*	
		For >250 To 400, Add	*12.26*	
		For >400 To 600, Add	*18.39*	
		For >600 To 750, Add	*24.52*	
		For >750, Add	*30.65*	
33 11 13 00-0030	LF	20" Water Well Hole Drilled In Sedimentary Rock	284.52	
		For >100 To 250, Add	*7.11*	
		For >250 To 400, Add	*14.23*	
		For >400 To 600, Add	*21.34*	
		For >600 To 750, Add	*28.45*	
		For >750, Add	*35.57*	
33 11 13 00-0031	LF	22" Water Well Hole Drilled In Sedimentary Rock	335.13	
		For >100 To 250, Add	*8.38*	
		For >250 To 400, Add	*16.76*	
		For >400 To 600, Add	*25.13*	
		For >600 To 750, Add	*33.51*	
		For >750, Add	*41.89*	
33 11 13 00-0032	LF	24" Water Well Hole Drilled In Sedimentary Rock	387.12	
		For >100 To 250, Add	*9.68*	
		For >250 To 400, Add	*19.36*	
		For >400 To 600, Add	*29.03*	
		For >600 To 750, Add	*38.71*	
		For >750, Add	*48.39*	
33 11 13 00-0033	LF	26" Water Well Hole Drilled In Sedimentary Rock	426.61	
		For >100 To 250, Add	*10.67*	
		For >250 To 400, Add	*21.33*	
		For >400 To 600, Add	*32.00*	
		For >600 To 750, Add	*42.66*	
		For >750, Add	*53.33*	
33 11 13 00-0034	LF	28" Water Well Hole Drilled In Sedimentary Rock	469.36	
		For >100 To 250, Add	*11.73*	
		For >250 To 400, Add	*23.47*	
		For >400 To 600, Add	*35.20*	
		For >600 To 750, Add	*46.94*	
		For >750, Add	*58.67*	
33 11 13 00-0035	LF	30" Water Well Hole Drilled In Sedimentary Rock	514.09	
		For >100 To 250, Add	*12.85*	
		For >250 To 400, Add	*25.70*	
		For >400 To 600, Add	*38.56*	
		For >600 To 750, Add	*51.41*	
		For >750, Add	*64.26*	
33 11 13 00-0036	LF	36" Water Well Hole Drilled In Sedimentary Rock	639.49	
		For >100 To 250, Add	*15.99*	
		For >250 To 400, Add	*31.97*	
		For >400 To 600, Add	*47.96*	
		For >600 To 750, Add	*63.95*	
		For >750, Add	*79.94*	

33 11 13 00-0037 Drill Hole In Crystalline Rock *(33 11 13 00-0002)*

33 11 13 00-0038	LF	6" Water Well Hole Drilled In Crystalline Rock	92.62	
		For >100 To 250, Add	*2.32*	
		For >250 To 400, Add	*4.63*	
		For >400 To 600, Add	*6.95*	
		For >600 To 750, Add	*9.26*	
		For >750, Add	*11.58*	
33 11 13 00-0039	LF	8" Water Well Hole Drilled In Crystalline Rock	106.86	
		For >100 To 250, Add	*2.67*	
		For >250 To 400, Add	*5.34*	
		For >400 To 600, Add	*8.01*	
		For >600 To 750, Add	*10.69*	
		For >750, Add	*13.36*	
33 11 13 00-0040	LF	10" Water Well Hole Drilled In Crystalline Rock	122.54	
		For >100 To 250, Add	*3.06*	
		For >250 To 400, Add	*6.13*	
		For >400 To 600, Add	*9.19*	
		For >600 To 750, Add	*12.25*	
		For >750, Add	*15.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0041	LF	12" Water Well Hole Drilled In Crystalline Rock	155.31	
		For >100 To 250, Add	*3.88*	
		For >250 To 400, Add	*7.77*	
		For >400 To 600, Add	*11.65*	
		For >600 To 750, Add	*15.53*	
		For >750, Add	*19.41*	
33 11 13 00-0042	LF	14" Water Well Hole Drilled In Crystalline Rock	200.91	
		For >100 To 250, Add	*5.02*	
		For >250 To 400, Add	*10.05*	
		For >400 To 600, Add	*15.07*	
		For >600 To 750, Add	*20.09*	
		For >750, Add	*25.11*	
33 11 13 00-0043	LF	16" Water Well Hole Drilled In Crystalline Rock	292.10	
		For >100 To 250, Add	*7.30*	
		For >250 To 400, Add	*14.61*	
		For >400 To 600, Add	*21.91*	
		For >600 To 750, Add	*29.21*	
		For >750, Add	*36.51*	
33 11 13 00-0044	LF	18" Water Well Hole Drilled In Crystalline Rock	347.68	
		For >100 To 250, Add	*8.69*	
		For >250 To 400, Add	*17.38*	
		For >400 To 600, Add	*26.08*	
		For >600 To 750, Add	*34.77*	
		For >750, Add	*43.46*	
33 11 13 00-0045	LF	20" Water Well Hole Drilled In Crystalline Rock	403.24	
		For >100 To 250, Add	*10.08*	
		For >250 To 400, Add	*20.16*	
		For >400 To 600, Add	*30.24*	
		For >600 To 750, Add	*40.32*	
		For >750, Add	*50.41*	
33 11 13 00-0046	LF	22" Water Well Hole Drilled In Crystalline Rock	474.49	
		For >100 To 250, Add	*11.86*	
		For >250 To 400, Add	*23.72*	
		For >400 To 600, Add	*35.59*	
		For >600 To 750, Add	*47.45*	
		For >750, Add	*59.31*	
33 11 13 00-0047	LF	24" Water Well Hole Drilled In Crystalline Rock	548.58	
		For >100 To 250, Add	*13.71*	
		For >250 To 400, Add	*27.43*	
		For >400 To 600, Add	*41.14*	
		For >600 To 750, Add	*54.86*	
		For >750, Add	*68.57*	

33 11 13 00-0048 Furnish And Install Casing *(33 11 13 00-0001)*

Note: Excludes drilling of hole.

33 11 13 00-0049 Steel Well Casing *(33 11 13 00-0048)*

33 11 13 00-0050	LF	6" Diameter, Steel Well Casing, Flush	30.90	
		For >100 To 250, Deduct	*-0.98*	
		For >250 To 400, Deduct	*-1.75*	
		For >400 To 600, Deduct	*-2.62*	
		For >600 To 750, Deduct	*-3.50*	
		For >750, Deduct	*-4.64*	
33 11 13 00-0051	LF	8" Diameter, Steel Well Casing, Flush	38.43	
		For >100 To 250, Deduct	*-1.22*	
		For >250 To 400, Deduct	*-2.18*	
		For >400 To 600, Deduct	*-3.27*	
		For >600 To 750, Deduct	*-4.36*	
		For >750, Deduct	*-5.78*	
33 11 13 00-0052	LF	10" Diameter, Steel Well Casing, Flush	56.05	
		For >100 To 250, Deduct	*-1.71*	
		For >250 To 400, Deduct	*-3.11*	
		For >400 To 600, Deduct	*-4.66*	
		For >600 To 750, Deduct	*-6.22*	
		For >750, Deduct	*-8.17*	
33 11 13 00-0053	LF	12" Diameter, Steel Well Casing, Flush	92.28	
		For >100 To 250, Deduct	*-2.68*	
		For >250 To 400, Deduct	*-4.98*	
		For >400 To 600, Deduct	*-7.47*	
		For >600 To 750, Deduct	*-9.97*	
		For >750, Deduct	*-12.94*	
33 11 13 00-0054	LF	14" Diameter, Steel Well Casing, Flush	104.69	
		For >100 To 250, Deduct	*-3.13*	
		For >250 To 400, Deduct	*-5.75*	
		For >400 To 600, Deduct	*-8.62*	
		For >600 To 750, Deduct	*-11.49*	
		For >750, Deduct	*-15.03*	
33 11 13 00-0055	LF	16" Diameter, Steel Well Casing, Flush	123.32	
		For >100 To 250, Deduct	*-3.72*	
		For >250 To 400, Deduct	*-6.80*	
		For >400 To 600, Deduct	*-10.20*	
		For >600 To 750, Deduct	*-13.60*	
		For >750, Deduct	*-17.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0056	LF	18" Diameter, Steel Well Casing, Flush	141.59	
		For >100 To 250, Deduct	*-4.34*	
		For >250 To 400, Deduct	*-7.88*	
		For >400 To 600, Deduct	*-11.82*	
		For >600 To 750, Deduct	*-15.76*	
		For >750, Deduct	*-20.74*	
33 11 13 00-0057	LF	20" Diameter, Steel Well Casing, Flush	162.29	
		For >100 To 250, Deduct	*-5.04*	
		For >250 To 400, Deduct	*-9.10*	
		For >400 To 600, Deduct	*-13.65*	
		For >600 To 750, Deduct	*-18.20*	
		For >750, Deduct	*-24.02*	
33 11 13 00-0058	LF	24" Diameter, Steel Well Casing, Flush	189.17	
		For >100 To 250, Deduct	*-5.84*	
		For >250 To 400, Deduct	*-10.57*	
		For >400 To 600, Deduct	*-15.85*	
		For >600 To 750, Deduct	*-21.13*	
		For >750, Deduct	*-27.85*	
33 11 13 00-0059	LB	Steel Well Casing, Furnish And Install	1.10	
		For >100 To 250, Deduct	*-0.04*	
		For >250 To 400, Deduct	*-0.07*	
		For >400 To 600, Deduct	*-0.10*	
		For >600 To 750, Deduct	*-0.14*	
		For >750, Deduct	*-0.19*	

33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded *(33 11 13 00-0048)*

33 11 13 00-0061	LF	6" Diameter, Stainless Steel Well Casing, Flush	65.62	
		For >100 To 250, Deduct	*-1.85*	
		For >250 To 400, Deduct	*-3.49*	
		For >400 To 600, Deduct	*-5.23*	
		For >600 To 750, Deduct	*-6.97*	
		For >750, Deduct	*-8.98*	
33 11 13 00-0062	LF	8" Diameter, Stainless Steel Well Casing, Flush	98.18	
		For >100 To 250, Deduct	*-2.71*	
		For >250 To 400, Deduct	*-5.17*	
		For >400 To 600, Deduct	*-7.75*	
		For >600 To 750, Deduct	*-10.33*	
		For >750, Deduct	*-13.25*	
33 11 13 00-0063	LF	10" Diameter, Stainless Steel Well Casing, Flush	136.95	
		For >100 To 250, Deduct	*-3.75*	
		For >250 To 400, Deduct	*-7.18*	
		For >400 To 600, Deduct	*-10.76*	
		For >600 To 750, Deduct	*-14.35*	
		For >750, Deduct	*-18.36*	
33 11 13 00-0064	LF	12" Diameter, Stainless Steel Well Casing, Flush	159.33	
		For >100 To 250, Deduct	*-4.37*	
		For >250 To 400, Deduct	*-8.36*	
		For >400 To 600, Deduct	*-12.53*	
		For >600 To 750, Deduct	*-16.71*	
		For >750, Deduct	*-21.40*	

33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring *(33 11 13 00-0048)*

33 11 13 00-0066	LF	10" Diameter, Stainless Steel Well Casing, Welded	146.79	
		For >100 To 250, Deduct	*-4.24*	
		For >250 To 400, Deduct	*-7.91*	
		For >400 To 600, Deduct	*-11.87*	
		For >600 To 750, Deduct	*-15.83*	
		For >750, Deduct	*-20.53*	
33 11 13 00-0067	LF	12" Diameter, Stainless Steel Well Casing, Welded	169.99	
		For >100 To 250, Deduct	*-4.91*	
		For >250 To 400, Deduct	*-9.16*	
		For >400 To 600, Deduct	*-13.73*	
		For >600 To 750, Deduct	*-18.31*	
		For >750, Deduct	*-23.74*	
33 11 13 00-0068	LF	14" Diameter, Stainless Steel Well Casing, Welded	203.91	
		For >100 To 250, Deduct	*-5.84*	
		For >250 To 400, Deduct	*-10.93*	
		For >400 To 600, Deduct	*-16.40*	
		For >600 To 750, Deduct	*-21.87*	
		For >750, Deduct	*-28.29*	
33 11 13 00-0069	LF	16" Diameter, Stainless Steel Well Casing, Welded	233.46	
		For >100 To 250, Deduct	*-6.68*	
		For >250 To 400, Deduct	*-12.51*	
		For >400 To 600, Deduct	*-18.77*	
		For >600 To 750, Deduct	*-25.03*	
		For >750, Deduct	*-32.38*	
33 11 13 00-0070	LF	18" Diameter, Stainless Steel Well Casing, Welded	258.05	
		For >100 To 250, Deduct	*-7.41*	
		For >250 To 400, Deduct	*-13.87*	
		For >400 To 600, Deduct	*-20.80*	
		For >600 To 750, Deduct	*-27.73*	
		For >750, Deduct	*-35.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0071	LF	20" Diameter, Stainless Steel Well Casing, Welded	337.30	
		For >100 To 250, Deduct	*-9.58*	
		For >250 To 400, Deduct	*-18.01*	
		For >400 To 600, Deduct	*-27.02*	
		For >600 To 750, Deduct	*-36.03*	
		For >750, Deduct	*-46.52*	
33 11 13 00-0072	LF	24" Diameter, Stainless Steel Well Casing, Welded	443.84	
		For >100 To 250, Deduct	*-12.53*	
		For >250 To 400, Deduct	*-23.63*	
		For >400 To 600, Deduct	*-35.44*	
		For >600 To 750, Deduct	*-47.25*	
		For >750, Deduct	*-60.93*	

33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 *(33 11 13 00-0048)*

33 11 13 00-0074	LF	6" Polyvinyl Chloride (PVC) Well Casing	37.58	
		For >100 To 250, Deduct	*-1.10*	
		For >250 To 400, Deduct	*-2.04*	
		For >400 To 600, Deduct	*-3.06*	
		For >600 To 750, Deduct	*-4.09*	
		For >750, Deduct	*-5.32*	
33 11 13 00-0075	LF	8" Polyvinyl Chloride (PVC) Well Casing	59.64	
		For >100 To 250, Deduct	*-1.75*	
		For >250 To 400, Deduct	*-3.24*	
		For >400 To 600, Deduct	*-4.86*	
		For >600 To 750, Deduct	*-6.48*	
		For >750, Deduct	*-8.43*	
33 11 13 00-0076	LF	10" Polyvinyl Chloride (PVC) Well Casing	90.16	
		For >100 To 250, Deduct	*-2.64*	
		For >250 To 400, Deduct	*-4.90*	
		For >400 To 600, Deduct	*-7.35*	
		For >600 To 750, Deduct	*-9.79*	
		For >750, Deduct	*-12.75*	
33 11 13 00-0077	LF	12" Polyvinyl Chloride (PVC) Well Casing	106.46	
		For >100 To 250, Deduct	*-3.13*	
		For >250 To 400, Deduct	*-5.79*	
		For >400 To 600, Deduct	*-8.69*	
		For >600 To 750, Deduct	*-11.59*	
		For >750, Deduct	*-15.10*	

33 11 13 00-0078 Furnish And Install Well Screen Assembly *(33 11 13 00-0001)*

33 11 13 00-0079 Stainless Steel Well Screen *(33 11 13 00-0078)*

33 11 13 00-0080	LF	2" Stainless Steel Well Screen	21.40	1.64
		For >100 To 250, Deduct	*-0.75*	
		For >250 To 400, Deduct	*-1.28*	
		For >400 To 600, Deduct	*-1.92*	
		For >600 To 750, Deduct	*-2.56*	
		For >750, Deduct	*-3.47*	
33 11 13 00-0081	LF	3" Stainless Steel Well Screen	33.27	1.64
		For >100 To 250, Deduct	*-1.06*	
		For >250 To 400, Deduct	*-1.89*	
		For >400 To 600, Deduct	*-2.84*	
		For >600 To 750, Deduct	*-3.78*	
		For >750, Deduct	*-5.02*	
33 11 13 00-0082	LF	4" Stainless Steel Well Screen	41.81	2.46
		For >100 To 250, Deduct	*-1.33*	
		For >250 To 400, Deduct	*-2.38*	
		For >400 To 600, Deduct	*-3.57*	
		For >600 To 750, Deduct	*-4.76*	
		For >750, Deduct	*-6.32*	
33 11 13 00-0083	LF	5" Stainless Steel Well Screen	52.73	2.46
		For >100 To 250, Deduct	*-1.66*	
		For >250 To 400, Deduct	*-2.98*	
		For >400 To 600, Deduct	*-4.47*	
		For >600 To 750, Deduct	*-5.96*	
		For >750, Deduct	*-7.89*	
33 11 13 00-0084	LF	6" Stainless Steel Well Screen	63.52	3.28
		For >100 To 250, Deduct	*-2.04*	
		For >250 To 400, Deduct	*-3.63*	
		For >400 To 600, Deduct	*-5.45*	
		For >600 To 750, Deduct	*-7.26*	
		For >750, Deduct	*-9.67*	
33 11 13 00-0085	LF	8" Stainless Steel Well Screen	82.84	4.10
		For >100 To 250, Deduct	*-2.65*	
		For >250 To 400, Deduct	*-4.72*	
		For >400 To 600, Deduct	*-7.09*	
		For >600 To 750, Deduct	*-9.45*	
		For >750, Deduct	*-12.57*	
33 11 13 00-0086	LF	10" Stainless Steel Well Screen	105.42	6.56
		For >100 To 250, Deduct	*-3.42*	
		For >250 To 400, Deduct	*-6.06*	
		For >400 To 600, Deduct	*-9.09*	
		For >600 To 750, Deduct	*-12.11*	
		For >750, Deduct	*-16.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0087	LF	12" Stainless Steel Well Screen	123.65	8.19
		For >100 To 250, Deduct	*-4.01*	
		For >250 To 400, Deduct	*-7.10*	
		For >400 To 600, Deduct	*-10.65*	
		For >600 To 750, Deduct	*-14.20*	
		For >750, Deduct	*-18.94*	
33 11 13 00-0088	LF	14" Stainless Steel Well Screen	136.06	9.02
		For >100 To 250, Deduct	*-4.46*	
		For >250 To 400, Deduct	*-7.86*	
		For >400 To 600, Deduct	*-11.79*	
		For >600 To 750, Deduct	*-15.72*	
		For >750, Deduct	*-21.02*	
33 11 13 00-0089	LF	16" Stainless Steel Well Screen	147.57	10.65
		For >100 To 250, Deduct	*-4.88*	
		For >250 To 400, Deduct	*-8.57*	
		For >400 To 600, Deduct	*-12.85*	
		For >600 To 750, Deduct	*-17.13*	
		For >750, Deduct	*-22.96*	
33 11 13 00-0090	LF	18" Stainless Steel Well Screen	177.38	12.29
		For >100 To 250, Deduct	*-5.90*	
		For >250 To 400, Deduct	*-10.33*	
		For >400 To 600, Deduct	*-15.50*	
		For >600 To 750, Deduct	*-20.67*	
		For >750, Deduct	*-27.73*	
33 11 13 00-0091	LF	20" Stainless Steel Well Screen	223.67	15.57
		For >100 To 250, Deduct	*-7.43*	
		For >250 To 400, Deduct	*-13.02*	
		For >400 To 600, Deduct	*-19.53*	
		For >600 To 750, Deduct	*-26.05*	
		For >750, Deduct	*-34.95*	
33 11 13 00-0092	LF	24" Stainless Steel Well Screen	290.31	20.49
		For >100 To 250, Deduct	*-9.67*	
		For >250 To 400, Deduct	*-16.93*	
		For >400 To 600, Deduct	*-25.39*	
		For >600 To 750, Deduct	*-33.85*	
		For >750, Deduct	*-45.45*	
33 11 13 00-0093	LF	26" Stainless Steel Well Screen	334.45	23.77
		For >100 To 250, Deduct	*-11.09*	
		For >250 To 400, Deduct	*-19.45*	
		For >400 To 600, Deduct	*-29.18*	
		For >600 To 750, Deduct	*-38.91*	
		For >750, Deduct	*-52.19*	

33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 *(33 11 13 00-0078)*

33 11 13 00-0095	LF	1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	12.09	
		For >100 To 250, Deduct	*-0.45*	
		For >250 To 400, Deduct	*-0.75*	
		For >400 To 600, Deduct	*-1.13*	
		For >600 To 750, Deduct	*-1.51*	
		For >750, Deduct	*-2.07*	
		For Schedule 80, Add	*2.47*	
33 11 13 00-0096	LF	1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	13.74	
		For >100 To 250, Deduct	*-0.50*	
		For >250 To 400, Deduct	*-0.85*	
		For >400 To 600, Deduct	*-1.27*	
		For >600 To 750, Deduct	*-1.69*	
		For >750, Deduct	*-2.32*	
		For Schedule 80, Add	*2.96*	
33 11 13 00-0097	LF	2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	19.95	
		For >100 To 250, Deduct	*-0.78*	
		For >250 To 400, Deduct	*-1.28*	
		For >400 To 600, Deduct	*-1.92*	
		For >600 To 750, Deduct	*-2.56*	
		For >750, Deduct	*-3.57*	
		For Schedule 80, Add	*3.46*	
33 11 13 00-0098	LF	3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	28.26	
		For >100 To 250, Deduct	*-1.01*	
		For >250 To 400, Deduct	*-1.72*	
		For >400 To 600, Deduct	*-2.58*	
		For >600 To 750, Deduct	*-3.44*	
		For >750, Deduct	*-4.69*	
		For Schedule 80, Add	*6.42*	
33 11 13 00-0099	LF	4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	35.56	
		For >100 To 250, Deduct	*-1.28*	
		For >250 To 400, Deduct	*-2.16*	
		For >400 To 600, Deduct	*-3.25*	
		For >600 To 750, Deduct	*-4.33*	
		For >750, Deduct	*-5.91*	
		For Schedule 80, Add	*8.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0100	LF	5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	44.31	
		For >100 To 250, Deduct	*-1.57*	
		For >250 To 400, Deduct	*-2.68*	
		For >400 To 600, Deduct	*-4.01*	
		For >600 To 750, Deduct	*-5.35*	
		For >750, Deduct	*-7.29*	
		For Schedule 80, Add	*10.37*	
33 11 13 00-0101	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	49.81	
		For >100 To 250, Deduct	*-1.86*	
		For >250 To 400, Deduct	*-3.10*	
		For >400 To 600, Deduct	*-4.65*	
		For >600 To 750, Deduct	*-6.21*	
		For >750, Deduct	*-8.55*	
		For Schedule 80, Add	*10.12*	
33 11 13 00-0102	LF	8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	70.85	
		For >100 To 250, Deduct	*-2.56*	
		For >250 To 400, Deduct	*-4.33*	
		For >400 To 600, Deduct	*-6.49*	
		For >600 To 750, Deduct	*-8.65*	
		For >750, Deduct	*-11.83*	
		For Schedule 80, Add	*15.80*	

33 11 13 00-0103 Furnish And Install Gravel Pack Material *(33 11 13 00-0001)*

Note: Quantity is based on 3" space between wall and the casing or well screen.

33 11 13 00-0104 Artificial Gravel Pack *(33 11 13 00-0103)*

Note: Excludes casing.

33 11 13 00-0105	LF	Artificial Gravel Pack, 6" Casing, 2" Screen	17.93	
		For >100 To 250, Deduct	*-0.68*	
		For >250 To 400, Deduct	*-1.13*	
		For >400 To 600, Deduct	*-1.70*	
		For >600 To 750, Deduct	*-2.26*	
		For >750, Deduct	*-3.14*	
33 11 13 00-0106	LF	Artificial Gravel Pack, 8" Casing, 2" Screen	26.39	
		For >100 To 250, Deduct	*-1.03*	
		For >250 To 400, Deduct	*-1.69*	
		For >400 To 600, Deduct	*-2.53*	
		For >600 To 750, Deduct	*-3.38*	
		For >750, Deduct	*-4.70*	
33 11 13 00-0107	LF	Artificial Gravel Pack, 10" Casing, 2" Screen	36.64	
		For >100 To 250, Deduct	*-1.47*	
		For >250 To 400, Deduct	*-2.38*	
		For >400 To 600, Deduct	*-3.57*	
		For >600 To 750, Deduct	*-4.77*	
		For >750, Deduct	*-6.67*	
33 11 13 00-0108	LF	Artificial Gravel Pack, 12" Casing, 2" Screen	47.05	
		For >100 To 250, Deduct	*-1.86*	
		For >250 To 400, Deduct	*-3.04*	
		For >400 To 600, Deduct	*-4.55*	
		For >600 To 750, Deduct	*-6.07*	
		For >750, Deduct	*-8.48*	
33 11 13 00-0109	LF	Artificial Gravel Pack, 14" Casing, 2" Screen	58.11	
		For >100 To 250, Deduct	*-2.27*	
		For >250 To 400, Deduct	*-3.72*	
		For >400 To 600, Deduct	*-5.58*	
		For >600 To 750, Deduct	*-7.45*	
		For >750, Deduct	*-10.37*	
33 11 13 00-0110	LF	Artificial Gravel Pack, 16" Casing, 2" Screen	75.41	
		For >100 To 250, Deduct	*-2.89*	
		For >250 To 400, Deduct	*-4.78*	
		For >400 To 600, Deduct	*-7.17*	
		For >600 To 750, Deduct	*-9.56*	
		For >750, Deduct	*-13.26*	
33 11 13 00-0111	LF	Artificial Gravel Pack, 18" Casing, 2" Screen	86.52	
		For >100 To 250, Deduct	*-3.30*	
		For >250 To 400, Deduct	*-5.47*	
		For >400 To 600, Deduct	*-8.20*	
		For >600 To 750, Deduct	*-10.93*	
		For >750, Deduct	*-15.14*	
33 11 13 00-0112	LF	Artificial Gravel Pack, 20" Casing, 2" Screen	102.63	
		For >100 To 250, Deduct	*-3.96*	
		For >250 To 400, Deduct	*-6.52*	
		For >400 To 600, Deduct	*-9.78*	
		For >600 To 750, Deduct	*-13.04*	
		For >750, Deduct	*-18.11*	
33 11 13 00-0113	LF	Artificial Gravel Pack, 24" Casing, 2" Screen	116.03	
		For >100 To 250, Deduct	*-4.50*	
		For >250 To 400, Deduct	*-7.40*	
		For >400 To 600, Deduct	*-11.10*	
		For >600 To 750, Deduct	*-14.79*	
		For >750, Deduct	*-20.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0114	LF	Artificial Gravel Pack, 26" Casing, 2" Screen	125.20	
		For >100 To 250, Deduct	*-4.80*	
		For >250 To 400, Deduct	*-7.93*	
		For >400 To 600, Deduct	*-11.89*	
		For >600 To 750, Deduct	*-15.86*	
		For >750, Deduct	*-21.99*	
33 11 13 00-0115	LF	Artificial Gravel Pack, 30" Casing, 2" Screen	149.08	
		For >100 To 250, Deduct	*-5.78*	
		For >250 To 400, Deduct	*-9.50*	
		For >400 To 600, Deduct	*-14.26*	
		For >600 To 750, Deduct	*-19.01*	
		For >750, Deduct	*-26.43*	
33 11 13 00-0116	LF	Artificial Gravel Pack, 36" Casing, 2" Screen	172.04	
		For >100 To 250, Deduct	*-6.80*	
		For >250 To 400, Deduct	*-11.10*	
		For >400 To 600, Deduct	*-16.65*	
		For >600 To 750, Deduct	*-22.21*	
		For >750, Deduct	*-31.01*	

33 11 13 00-0117 Develop Well *(33 11 13 00-0001)*

Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.

33 11 13 00-0118	HR	Develop Well	322.10	

33 11 13 00-0119 Pump Test *(33 11 13 00-0001)*

Note: To determine water level and GPM flow rate.

33 11 13 00-0120	HR	Pump Test Well	290.02	

33 11 13 00-0121 Test Well *(33 11 13 00-0001)*

33 11 13 00-0122	VLF	2-1/2" Diameter Test Well	92.99	

33 11 13 00-0123 Surface Seal, Concrete Filled *(33 11 13)*

33 11 13 00-0124	SF	Surface Seal Well, Concrete Filled	29.91	

33 11 13 00-0125 Other Water Well *(33 11 13)*

33 11 13 00-0126	SF	Patch Hole In Well Casing	84.78	
33 11 13 00-0127	SF	1/2" Pressure Grout Well	2.21	
33 11 13 00-0128	SF	1" Pressure Grout Well	3.57	
33 11 13 00-0129	CF	Sediment Removal In Well Casing For Existing Well	5.13	

33 11 13 00-0130 Sterilization Of Well *(33 11 13)*

33 11 13 00-0131	EA	Well Sterilization, Chlorine	1,576.73	

33 11 13 00-0132 Submersible Well Pumps *(33 11 13)*

Note: Includes pump end, motor and control box.

33 11 13 00-0133 4" Submersible Well Pumps *(33 11 13 00-0132)*

33 11 13 00-0134 Powder Coated Case And Cast Iron Ends *(33 11 13 00-0133)*

33 11 13 00-0135	EA	1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,289.67	429.76
33 11 13 00-0136	EA	3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,471.28	476.34
33 11 13 00-0137	EA	1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,632.81	529.26

33 11 13 00-0138 Stainless Steel Case And Ends *(33 11 13 00-0133)*

33 11 13 00-0139	EA	1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,462.55	423.41
33 11 13 00-0140	EA	3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,669.05	476.34
33 11 13 00-0141	EA	1 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,872.00	529.26
33 11 13 00-0142	EA	1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,148.37	582.19
33 11 13 00-0143	EA	2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,435.38	635.11
33 11 13 00-0144	EA	3 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,002.31	740.97
33 11 13 00-0145	EA	5 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,790.67	846.82

33 11 13 00-0146 6" Submersible Well Pumps *(33 11 13 00-0132)*

33 11 13 00-0147	EA	5 HP Submersible Well Pump, 6" Diameter Stainless Steel	3,646.90	1,058.52
33 11 13 00-0148	EA	7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,214.89	1,164.38
33 11 13 00-0149	EA	10 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,805.63	1,270.23
33 11 13 00-0150	EA	15 HP Submersible Well Pump, 6" Diameter Stainless Steel	6,078.04	1,481.93

33 14 Water Utility Transmission and Distribution *(33 10)*

33 14 11 Water Utility Transmission Piping *(33 14)*

See CSI section 33 14 13 00-0000 for water utility transmission piping.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 14 13 Public Water Utility Distribution Piping *(33 14)*

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 14 13 13 Ductile Iron Public Water Utility Distribution Piping *(33 14 13)*

33 14 13 13-0001 Ductile Iron Piping *(33 14 13 13)*

33 14 13 13-0002 Mechanical Joint Ductile Iron Piping *(33 14 13 13-0001)*

Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0500 for bolts and gaskets.

33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe *(33 14 13 13-0002)*

Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.

33 14 13 13-0004	LF	3", Class 51, Mechanical Joint Ductile Iron Pipe	34.35	11.73
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*11.62*	
		For Cement Mortar Lining (CML), Add	*1.66*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*8.96*	
		For Fusion Bonded Epoxy Lining (206N), Add	*2.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1.25*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-1.72*	
		For Class 52, Add	*3.68*	
		For Class 53, Add	*9.56*	
		For Class 54, Add	*13.61*	
		For Class 55, Add	*15.69*	
		For Class 56, Add	*17.74*	
33 14 13 13-0005	LF	4", Class 50, Mechanical Joint Ductile Iron Pipe	37.16	12.48
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*12.77*	
		For Cement Mortar Lining (CML), Add	*1.82*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*9.85*	
		For Fusion Bonded Epoxy Lining (206N), Add	*3.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1.37*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-1.86*	
		For Class 51, Add	*1.81*	
		For Class 52, Add	*4.03*	
		For Class 53, Add	*10.48*	
		For Class 54, Add	*14.93*	
		For Class 55, Add	*17.21*	
		For Class 56, Add	*19.45*	
33 14 13 13-0006	LF	6", Class 50, Mechanical Joint Ductile Iron Pipe	39.62	13.11
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*13.86*	
		For Cement Mortar Lining (CML), Add	*1.98*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*10.69*	
		For Fusion Bonded Epoxy Lining (206N), Add	*3.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1.49*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-1.98*	
		For Class 51, Add	*1.96*	
		For Class 52, Add	*4.36*	
		For Class 53, Add	*11.35*	
		For Class 54, Add	*16.17*	
		For Class 55, Add	*18.63*	
		For Class 56, Add	*21.06*	
33 14 13 13-0007	LF	8", Class 50, Mechanical Joint Ductile Iron Pipe	45.97	13.63
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*17.73*	
		For Cement Mortar Lining (CML), Add	*2.53*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*13.68*	
		For Fusion Bonded Epoxy Lining (206N), Add	*4.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1.90*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-2.30*	
		For Class 51, Add	*2.44*	
		For Class 52, Add	*5.46*	
		For Class 53, Add	*14.35*	
		For Class 54, Add	*20.44*	
		For Class 55, Add	*23.54*	
		For Class 56, Add	*26.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0008	LF	10", Class 50, Mechanical Joint Ductile Iron Pipe	62.23	19.32
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*19.77*	
		For Cement Mortar Lining (CML), Add	*3.30*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*16.48*	
		For Fusion Bonded Epoxy Lining (206N), Add	*5.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2.47*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-3.11*	
		For Class 51, Add	*3.21*	
		For Class 52, Add	*7.16*	
		For Class 53, Add	*18.76*	
		For Class 54, Add	*26.72*	
		For Class 55, Add	*30.78*	
		For Class 56, Add	*34.77*	
33 14 13 13-0009	LF	12", Class 50, Mechanical Joint Ductile Iron Pipe	74.62	21.47
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*21.05*	
		For Cement Mortar Lining (CML), Add	*4.21*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*16.84*	
		For Fusion Bonded Epoxy Lining (206N), Add	*7.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3.16*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-3.73*	
		For Class 51, Add	*4.04*	
		For Class 52, Add	*9.03*	
		For Class 53, Add	*23.78*	
		For Class 54, Add	*33.88*	
		For Class 55, Add	*39.01*	
		For Class 56, Add	*44.05*	
33 14 13 13-0010	LF	14", Class 50, Mechanical Joint Ductile Iron Pipe	88.79	24.10
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*22.96*	
		For Cement Mortar Lining (CML), Add	*5.22*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*17.74*	
		For Fusion Bonded Epoxy Lining (206N), Add	*9.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3.91*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-4.44*	
		For Class 51, Add	*4.96*	
		For Class 52, Add	*11.10*	
		For Class 53, Add	*29.34*	
		For Class 54, Add	*41.83*	
		For Class 55, Add	*48.14*	
		For Class 56, Add	*54.33*	
33 14 13 13-0011	LF	16", Class 50, Mechanical Joint Ductile Iron Pipe	100.33	27.62
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*23.99*	
		For Cement Mortar Lining (CML), Add	*5.85*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*18.14*	
		For Fusion Bonded Epoxy Lining (206N), Add	*10.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.39*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-5.02*	
		For Class 51, Add	*5.57*	
		For Class 52, Add	*12.46*	
		For Class 53, Add	*32.92*	
		For Class 54, Add	*46.93*	
		For Class 55, Add	*54.01*	
		For Class 56, Add	*60.97*	
33 14 13 13-0012	LF	18", Class 50, Mechanical Joint Ductile Iron Pipe	123.83	32.21
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*30.77*	
		For Cement Mortar Lining (CML), Add	*7.50*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*23.26*	
		For Fusion Bonded Epoxy Lining (206N), Add	*13.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.63*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-6.19*	
		For Class 51, Add	*7.09*	
		For Class 52, Add	*15.86*	
		For Class 53, Add	*42.04*	
		For Class 54, Add	*59.95*	
		For Class 55, Add	*68.97*	
		For Class 56, Add	*77.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0013	LF	20", Class 50, Mechanical Joint Ductile Iron Pipe	141.19	38.64
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*31.40*	
		For Cement Mortar Lining (CML), Add	*8.26*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*23.14*	
		For Fusion Bonded Epoxy Lining (206N), Add	*14.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.20*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-7.06*	
		For Class 51, Add	*7.86*	
		For Class 52, Add	*17.59*	
		For Class 53, Add	*46.48*	
		For Class 54, Add	*66.26*	
		For Class 55, Add	*76.26*	
		For Class 56, Add	*86.08*	
33 14 13 13-0014	LF	24", Class 50, Mechanical Joint Ductile Iron Pipe	184.11	48.30
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*34.38*	
		For Cement Mortar Lining (CML), Add	*11.09*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*23.29*	
		For Fusion Bonded Epoxy Lining (206N), Add	*19.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.32*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-9.21*	
		For Class 51, Add	*10.49*	
		For Class 52, Add	*23.47*	
		For Class 53, Add	*62.18*	
		For Class 54, Add	*88.66*	
		For Class 55, Add	*102.01*	
		For Class 56, Add	*115.12*	
33 14 13 13-0015	LF	30", Class 50, Mechanical Joint Ductile Iron Pipe	234.48	52.02
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*48.48*	
		For Cement Mortar Lining (CML), Add	*15.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*28.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.73*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-11.72*	
		For Class 51, Add	*14.47*	
		For Class 52, Add	*32.47*	
		For Class 53, Add	*86.74*	
		For Class 54, Add	*123.77*	
		For Class 55, Add	*142.28*	
		For Class 56, Add	*160.46*	
33 14 13 13-0016	LF	36", Class 50, Mechanical Joint Ductile Iron Pipe	278.53	55.24
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*60.63*	
		For Cement Mortar Lining (CML), Add	*19.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*35.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.67*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-13.93*	
		For Class 51, Add	*17.91*	
		For Class 52, Add	*40.23*	
		For Class 53, Add	*107.92*	
		For Class 54, Add	*154.03*	
		For Class 55, Add	*176.99*	
		For Class 56, Add	*199.54*	
33 14 13 13-0017	LF	42", Class 50, Mechanical Joint Ductile Iron Pipe	339.78	58.45
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*78.10*	
		For Cement Mortar Lining (CML), Add	*25.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*45.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.90*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-16.99*	
		For Class 51, Add	*22.84*	
		For Class 52, Add	*51.35*	
		For Class 53, Add	*138.31*	
		For Class 54, Add	*197.48*	
		For Class 55, Add	*226.82*	
		For Class 56, Add	*255.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0018	LF	48", Class 50, Mechanical Joint Ductile Iron Pipe	413.84	61.78
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*99.55*	
		For Cement Mortar Lining (CML), Add	*32.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*57.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.08*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-20.69*	
		For Class 51, Add	*28.87*	
		For Class 52, Add	*64.97*	
		For Class 53, Add	*175.57*	
		For Class 54, Add	*250.74*	
		For Class 55, Add	*287.90*	
		For Class 56, Add	*324.38*	

33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow *(33 14 13 13-0002)*

33 14 13 13-0020	EA	3" Mechanical Joint Ductile Iron 90 Degree Elbow	134.82	37.05
		For Cement Mortar Lining (CML), Add	*7.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*14.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.90*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021	EA	4" Mechanical Joint Ductile Iron 90 Degree Elbow	152.70	44.28
		For Cement Mortar Lining (CML), Add	*8.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*15.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022	EA	6" Mechanical Joint Ductile Iron 90 Degree Elbow	239.07	65.43
		For Cement Mortar Lining (CML), Add	*14.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*25.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023	EA	8" Mechanical Joint Ductile Iron 90 Degree Elbow	321.27	77.61
		For Cement Mortar Lining (CML), Add	*20.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*36.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*15.27*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024	EA	10" Mechanical Joint Ductile Iron 90 Degree Elbow	453.75	85.69
		For Cement Mortar Lining (CML), Add	*32.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*58.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025	EA	12" Mechanical Joint Ductile Iron 90 Degree Elbow	588.41	100.52
		For Cement Mortar Lining (CML), Add	*43.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*78.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*32.71*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026	EA	14" Mechanical Joint Ductile Iron 90 Degree Elbow	900.81	112.72
		For Cement Mortar Lining (CML), Add	*73.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*131.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*54.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027	EA	16" Mechanical Joint Ductile Iron 90 Degree Elbow	1,186.69	128.83
		For Cement Mortar Lining (CML), Add	*99.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*178.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*74.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028	EA	18" Mechanical Joint Ductile Iron 90 Degree Elbow	1,467.20	180.35
		For Cement Mortar Lining (CML), Add	*119.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*214.92*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*89.55*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0029	EA	20" Mechanical Joint Ductile Iron 90 Degree Elbow	2,006.42	225.43
		For Cement Mortar Lining (CML), Add	*166.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*299.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*124.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030	EA	24" Mechanical Joint Ductile Iron 90 Degree Elbow	2,940.05	300.20
		For Cement Mortar Lining (CML), Add	*248.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*447.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*186.39*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031	EA	30" Mechanical Joint Ductile Iron 90 Degree Elbow	4,476.00	322.05
		For Cement Mortar Lining (CML), Add	*398.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*717.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*299.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032	EA	36" Mechanical Joint Ductile Iron 90 Degree Elbow	6,741.39	334.35
		For Cement Mortar Lining (CML), Add	*623.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,122.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*467.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033	EA	42" Mechanical Joint Ductile Iron 90 Degree Elbow	11,277.02	386.47
		For Cement Mortar Lining (CML), Add	*1,069.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,924.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*801.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034	EA	48" Mechanical Joint Ductile Iron 90 Degree Elbow	14,878.99	411.16
		For Cement Mortar Lining (CML), Add	*1,425.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,566.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,069.20*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow *(33 14 13 13-0002)*

33 14 13 13-0036	EA	3" Mechanical Joint Ductile Iron 45 Degree Elbow	126.72	37.05
		For Cement Mortar Lining (CML), Add	*7.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*12.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0037	EA	4" Mechanical Joint Ductile Iron 45 Degree Elbow	137.65	44.28
		For Cement Mortar Lining (CML), Add	*7.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*12.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0038	EA	6" Mechanical Joint Ductile Iron 45 Degree Elbow	212.46	65.43
		For Cement Mortar Lining (CML), Add	*11.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*20.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0039	EA	8" Mechanical Joint Ductile Iron 45 Degree Elbow	283.10	77.61
		For Cement Mortar Lining (CML), Add	*16.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*29.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*12.41*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0040	EA	10" Mechanical Joint Ductile Iron 45 Degree Elbow	371.60	85.69
		For Cement Mortar Lining (CML), Add	*24.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*43.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0041	EA	12" Mechanical Joint Ductile Iron 45 Degree Elbow	513.21	100.52
		For Cement Mortar Lining (CML), Add	*36.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*64.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*27.07*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0042	EA	14" Mechanical Joint Ductile Iron 45 Degree Elbow	738.84	112.72
		For Cement Mortar Lining (CML), Add	*56.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*102.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*42.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043	EA	16" Mechanical Joint Ductile Iron 45 Degree Elbow	903.24	128.83
		For Cement Mortar Lining (CML), Add	*70.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*127.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*53.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044	EA	18" Mechanical Joint Ductile Iron 45 Degree Elbow	1,289.03	180.35
		For Cement Mortar Lining (CML), Add	*101.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*182.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*76.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045	EA	20" Mechanical Joint Ductile Iron 45 Degree Elbow	1,426.78	225.43
		For Cement Mortar Lining (CML), Add	*108.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*195.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*81.39*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046	EA	24" Mechanical Joint Ductile Iron 45 Degree Elbow	2,103.57	300.20
		For Cement Mortar Lining (CML), Add	*164.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*296.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*123.65*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047	EA	30" Mechanical Joint Ductile Iron 45 Degree Elbow	3,837.36	322.05
		For Cement Mortar Lining (CML), Add	*334.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*602.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*251.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0048	EA	36" Mechanical Joint Ductile Iron 45 Degree Elbow	5,403.94	334.35
		For Cement Mortar Lining (CML), Add	*489.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*881.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*367.31*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049	EA	42" Mechanical Joint Ductile Iron 45 Degree Elbow	8,110.42	386.47
		For Cement Mortar Lining (CML), Add	*752.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,354.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*564.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050	EA	48" Mechanical Joint Ductile Iron 45 Degree Elbow	10,483.70	411.16
		For Cement Mortar Lining (CML), Add	*986.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,774.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*739.56*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow *(33 14 13 13-0002)*

33 14 13 13-0052	EA	3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	111.68	37.05
		For Cement Mortar Lining (CML), Add	*5.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*10.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0053	EA	4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	134.18	44.28
		For Cement Mortar Lining (CML), Add	*6.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*12.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.03*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0054	EA	6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	203.21	65.43
		For Cement Mortar Lining (CML), Add	*10.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*18.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.81*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0055	EA	8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	279.62	77.61
		For Cement Mortar Lining (CML), Add	*16.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*29.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*12.15*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0056	EA	10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	370.45	85.69
		For Cement Mortar Lining (CML), Add	*24.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*43.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.05*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0057	EA	12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	468.09	100.52
		For Cement Mortar Lining (CML), Add	*31.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*56.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*23.69*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0058	EA	14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	745.78	112.72
		For Cement Mortar Lining (CML), Add	*57.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*103.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*43.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0059	EA	16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	874.32	128.83
		For Cement Mortar Lining (CML), Add	*67.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*122.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*50.94*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0060	EA	18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,107.39	180.35
		For Cement Mortar Lining (CML), Add	*83.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*150.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*62.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0061	EA	20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,475.37	225.43
		For Cement Mortar Lining (CML), Add	*113.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*204.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*85.04*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0062	EA	24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,976.30	300.20
		For Cement Mortar Lining (CML), Add	*152.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*273.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*114.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0063	EA	30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,294.74	322.05
		For Cement Mortar Lining (CML), Add	*280.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*505.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*210.51*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0064	EA	36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,620.68	334.35
		For Cement Mortar Lining (CML), Add	*411.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*740.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*308.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0065	EA	42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	6,797.27	386.47
		For Cement Mortar Lining (CML), Add	*621.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,118.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*465.88*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0066	EA	48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	8,711.24	411.16
		For Cement Mortar Lining (CML), Add	*808.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,455.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*606.62*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow *(33 14 13 13-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0068	EA	3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	111.68	37.05
		For Cement Mortar Lining (CML), Add	*5.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*10.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0069	EA	4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	130.71	44.28
		For Cement Mortar Lining (CML), Add	*6.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*11.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.77*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0070	EA	6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	206.68	65.43
		For Cement Mortar Lining (CML), Add	*10.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*19.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0071	EA	8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	264.58	77.61
		For Cement Mortar Lining (CML), Add	*14.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*26.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.02*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0072	EA	10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	368.13	85.69
		For Cement Mortar Lining (CML), Add	*23.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*42.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*17.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0073	EA	12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	448.42	100.52
		For Cement Mortar Lining (CML), Add	*29.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*53.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*22.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0074	EA	14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	826.77	112.72
		For Cement Mortar Lining (CML), Add	*65.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*118.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*49.20*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0075	EA	16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	913.65	128.83
		For Cement Mortar Lining (CML), Add	*71.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*129.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*53.89*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0076	EA	18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,327.21	180.35
		For Cement Mortar Lining (CML), Add	*105.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*189.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*79.05*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0077	EA	20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,409.42	225.43
		For Cement Mortar Lining (CML), Add	*106.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*192.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*80.09*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0078	EA	24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,879.12	300.20
		For Cement Mortar Lining (CML), Add	*142.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*256.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*106.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0079	EA	30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,345.65	322.05
		For Cement Mortar Lining (CML), Add	*285.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*514.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*214.33*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0080	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,412.43	334.35
		For Cement Mortar Lining (CML), Add	*390.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*703.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*292.94*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0081	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	6,513.81	386.47
		For Cement Mortar Lining (CML), Add	*592.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,067.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*444.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0082	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	8,655.70	411.16
		For Cement Mortar Lining (CML), Add	*803.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,445.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*602.46*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow *(33 14 13 13-0002)*

33 14 13 13-0084	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	138.29	37.05
		For Cement Mortar Lining (CML), Add	*8.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*14.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0085	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	168.89	44.28
		For Cement Mortar Lining (CML), Add	*10.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*18.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.64*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	268.00	65.43
		For Cement Mortar Lining (CML), Add	*16.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*30.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*12.67*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	359.45	77.61
		For Cement Mortar Lining (CML), Add	*24.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*43.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	509.28	85.69
		For Cement Mortar Lining (CML), Add	*37.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*68.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*28.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	648.58	100.52
		For Cement Mortar Lining (CML), Add	*49.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*89.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*37.23*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,094.02	112.72
		For Cement Mortar Lining (CML), Add	*92.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*166.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*69.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,657.58	128.83
		For Cement Mortar Lining (CML), Add	*146.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*263.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*109.68*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0092	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,934.61	180.35
		For Cement Mortar Lining (CML), Add	*166.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*299.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*124.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0093	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,621.92	225.43
		For Cement Mortar Lining (CML), Add	*228.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*410.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*171.03*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0094	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,194.58	300.20
		For Cement Mortar Lining (CML), Add	*273.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*493.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*205.48*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0095	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,882.86	322.05
		For Cement Mortar Lining (CML), Add	*539.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*971.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*404.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0096	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	10,448.29	334.35
		For Cement Mortar Lining (CML), Add	*994.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,789.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*745.63*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow *(33 14 13 13-0002)*

33 14 13 13-0098	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	127.88	37.05
		For Cement Mortar Lining (CML), Add	*7.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*12.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0099	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	141.13	44.28
		For Cement Mortar Lining (CML), Add	*7.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*13.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0100	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	225.19	65.43
		For Cement Mortar Lining (CML), Add	*12.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*22.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*9.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0101	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	320.12	77.61
		For Cement Mortar Lining (CML), Add	*20.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*36.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*15.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0102	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	430.61	85.69
		For Cement Mortar Lining (CML), Add	*30.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*54.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*22.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0103	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	580.32	100.52
		For Cement Mortar Lining (CML), Add	*42.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*77.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*32.11*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0104	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	972.54	112.72
		For Cement Mortar Lining (CML), Add	*80.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*144.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*60.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0105	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,466.68	128.83
		For Cement Mortar Lining (CML), Add	*127.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*228.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*95.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0106	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,741.40	180.35
		For Cement Mortar Lining (CML), Add	*146.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*264.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*110.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0107	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,258.63	225.43
		For Cement Mortar Lining (CML), Add	*191.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*345.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*143.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0108	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,844.02	300.20
		For Cement Mortar Lining (CML), Add	*238.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*430.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*179.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0109	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	5,180.59	322.05
		For Cement Mortar Lining (CML), Add	*469.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*844.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*351.95*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0110	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	9,155.96	334.35
		For Cement Mortar Lining (CML), Add	*864.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,556.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*648.71*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0111 Mechanical Joint Ductile Iron Tee *(33 14 13 13-0002)*

33 14 13 13-0112	EA	3" x 3" Mechanical Joint Ductile Iron Tee	218.43	55.59
		For Cement Mortar Lining (CML), Add	*13.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*24.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0113	EA	4" x 3" Mechanical Joint Ductile Iron Tee	228.33	62.12
		For Cement Mortar Lining (CML), Add	*13.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*24.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0114	EA	4" x 4" Mechanical Joint Ductile Iron Tee	211.31	65.43
		For Cement Mortar Lining (CML), Add	*11.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*20.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0115	EA	6" x 3" Mechanical Joint Ductile Iron Tee	279.91	82.43
		For Cement Mortar Lining (CML), Add	*15.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*27.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0116	EA	6" x 4" Mechanical Joint Ductile Iron Tee	318.61	85.83
		For Cement Mortar Lining (CML), Add	*18.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*33.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.14*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0117	EA	6" x 6" Mechanical Joint Ductile Iron Tee	347.98	96.09
		For Cement Mortar Lining (CML), Add	*20.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*36.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*15.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118	EA	8" x 4" Mechanical Joint Ductile Iron Tee	369.36	99.46
		For Cement Mortar Lining (CML), Add	*21.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*39.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*16.40*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119	EA	8" x 6" Mechanical Joint Ductile Iron Tee	418.40	109.68
		For Cement Mortar Lining (CML), Add	*25.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*45.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.92*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120	EA	8" x 8" Mechanical Joint Ductile Iron Tee	480.79	116.52
		For Cement Mortar Lining (CML), Add	*30.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*54.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*22.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121	EA	10" x 4" Mechanical Joint Ductile Iron Tee	496.87	106.49
		For Cement Mortar Lining (CML), Add	*33.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*60.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122	EA	10" x 6" Mechanical Joint Ductile Iron Tee	501.09	116.15
		For Cement Mortar Lining (CML), Add	*32.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*58.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0123	EA	10" x 8" Mechanical Joint Ductile Iron Tee	566.40	122.60
		For Cement Mortar Lining (CML), Add	*38.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*68.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*28.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124	EA	10" x 10" Mechanical Joint Ductile Iron Tee	630.20	128.83
		For Cement Mortar Lining (CML), Add	*43.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*78.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*32.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125	EA	12" x 4" Mechanical Joint Ductile Iron Tee	591.59	119.38
		For Cement Mortar Lining (CML), Add	*41.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*73.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126	EA	12" x 6" Mechanical Joint Ductile Iron Tee	669.85	129.03
		For Cement Mortar Lining (CML), Add	*47.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*85.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*35.58*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0127	EA	12" x 8" Mechanical Joint Ductile Iron Tee	814.99	135.47
		For Cement Mortar Lining (CML), Add	*60.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*109.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*45.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128	EA	12" x 10" Mechanical Joint Ductile Iron Tee	871.84	141.70
		For Cement Mortar Lining (CML), Add	*65.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*118.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*49.29*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0129	EA	12" x 12" Mechanical Joint Ductile Iron Tee	831.86	148.15
		For Cement Mortar Lining (CML), Add	*60.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*109.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*45.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0130	EA	14" x 6" Mechanical Joint Ductile Iron Tee	884.95	150.35
		For Cement Mortar Lining (CML), Add	*65.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*118.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*49.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0131	EA	14" x 8" Mechanical Joint Ductile Iron Tee	981.50	156.80
		For Cement Mortar Lining (CML), Add	*74.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*133.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*55.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0132	EA	14" x 10" Mechanical Joint Ductile Iron Tee	1,240.83	163.02
		For Cement Mortar Lining (CML), Add	*99.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*178.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*74.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0133	EA	14" x 12" Mechanical Joint Ductile Iron Tee	1,324.62	169.46
		For Cement Mortar Lining (CML), Add	*106.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*192.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*80.09*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0134	EA	14" x 14" Mechanical Joint Ductile Iron Tee	1,284.08	180.15
		For Cement Mortar Lining (CML), Add	*101.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*182.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*75.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee	1,121.21	180.34
		For Cement Mortar Lining (CML), Add	*84.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*152.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*63.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee	1,203.96	186.79
		For Cement Mortar Lining (CML), Add	*92.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*165.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*69.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee	1,393.88	193.01
		For Cement Mortar Lining (CML), Add	*110.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*198.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*82.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee	1,521.65	199.45
		For Cement Mortar Lining (CML), Add	*121.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*219.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*91.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0139	EA	16" x 14" Mechanical Joint Ductile Iron Tee	1,821.24	210.11
		For Cement Mortar Lining (CML), Add	*150.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*270.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*112.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0140	EA	16" x 16" Mechanical Joint Ductile Iron Tee	1,730.58	225.14
		For Cement Mortar Lining (CML), Add	*138.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*250.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*104.21*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0141	EA	18" x 6" Mechanical Joint Ductile Iron Tee	1,550.62	230.80
		For Cement Mortar Lining (CML), Add	*120.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*216.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*90.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0142	EA	18" x 8" Mechanical Joint Ductile Iron Tee	1,659.89	237.25
		For Cement Mortar Lining (CML), Add	*130.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*234.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*97.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0143	EA	18" x 10" Mechanical Joint Ductile Iron Tee	1,791.96	243.48
		For Cement Mortar Lining (CML), Add	*142.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*256.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*106.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0144	EA	18" x 12" Mechanical Joint Ductile Iron Tee	1,923.20	249.91
		For Cement Mortar Lining (CML), Add	*154.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*278.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*115.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0145	EA	18" x 14" Mechanical Joint Ductile Iron Tee	1,979.84	260.57
		For Cement Mortar Lining (CML), Add	*158.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*285.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*118.88*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0146	EA	18" x 16" Mechanical Joint Ductile Iron Tee	2,112.48	275.57
		For Cement Mortar Lining (CML), Add	*169.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*305.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*127.12*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0147	EA	18" x 18" Mechanical Joint Ductile Iron Tee	2,466.56	300.78
		For Cement Mortar Lining (CML), Add	*201.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*361.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*150.81*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0148	EA	20" x 6" Mechanical Joint Ductile Iron Tee	1,852.80	330.97
		For Cement Mortar Lining (CML), Add	*135.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*243.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*101.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0149	EA	20" x 8" Mechanical Joint Ductile Iron Tee	1,892.65	337.43
		For Cement Mortar Lining (CML), Add	*138.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*248.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*103.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0150	EA	20" x 10" Mechanical Joint Ductile Iron Tee	2,053.64	343.64
		For Cement Mortar Lining (CML), Add	*153.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*275.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*114.97*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0151	EA	20" x 12" Mechanical Joint Ductile Iron Tee	2,213.81	350.08
		For Cement Mortar Lining (CML), Add	*168.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*303.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*126.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0152	EA	20" x 14" Mechanical Joint Ductile Iron Tee	2,242.69	360.74
		For Cement Mortar Lining (CML), Add	*169.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*305.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*127.21*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0153	EA	20" x 16" Mechanical Joint Ductile Iron Tee	2,279.29	375.74
		For Cement Mortar Lining (CML), Add	*171.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*307.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*128.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0154	EA	20" x 18" Mechanical Joint Ductile Iron Tee	2,840.46	400.96
		For Cement Mortar Lining (CML), Add	*223.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*401.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*167.47*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0155	EA	20" x 20" Mechanical Joint Ductile Iron Tee	2,536.87	451.07
		For Cement Mortar Lining (CML), Add	*185.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*333.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*139.01*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0156	EA	24" x 6" Mechanical Joint Ductile Iron Tee	2,278.32	430.84
		For Cement Mortar Lining (CML), Add	*162.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*292.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*121.91*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0157	EA	24" x 8" Mechanical Joint Ductile Iron Tee	2,308.90	437.89
		For Cement Mortar Lining (CML), Add	*164.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*296.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*123.48*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0158	EA	24" x 10" Mechanical Joint Ductile Iron Tee	2,531.21	443.51
		For Cement Mortar Lining (CML), Add	*185.92*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*334.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*139.44*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0159	EA	24" x 12" Mechanical Joint Ductile Iron Tee	2,593.03	449.95
		For Cement Mortar Lining (CML), Add	*191.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*344.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*143.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0160	EA	24" x 14" Mechanical Joint Ductile Iron Tee	2,903.05	460.61
		For Cement Mortar Lining (CML), Add	*220.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*396.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*165.39*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0161	EA	24" x 16" Mechanical Joint Ductile Iron Tee	3,128.24	475.59
		For Cement Mortar Lining (CML), Add	*240.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*433.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*180.57*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0162	EA	24" x 18" Mechanical Joint Ductile Iron Tee	3,541.33	500.83
		For Cement Mortar Lining (CML), Add	*278.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*500.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*208.69*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0163	EA	24" x 20" Mechanical Joint Ductile Iron Tee	3,923.80	550.92
		For Cement Mortar Lining (CML), Add	*308.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*556.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*231.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0164	EA	24" x 24" Mechanical Joint Ductile Iron Tee	3,661.62	600.87
		For Cement Mortar Lining (CML), Add	*275.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*495.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*206.34*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0165	EA	30" x 8" Mechanical Joint Ductile Iron Tee	3,874.19	508.25
		For Cement Mortar Lining (CML), Add	*310.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*558.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*232.81*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0166	EA	30" x 10" Mechanical Joint Ductile Iron Tee	4,074.52	514.47
		For Cement Mortar Lining (CML), Add	*329.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*593.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*247.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0167	EA	30" x 12" Mechanical Joint Ductile Iron Tee	4,275.17	520.91
		For Cement Mortar Lining (CML), Add	*348.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*627.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*261.44*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0168	EA	30" x 14" Mechanical Joint Ductile Iron Tee	4,562.06	531.58
		For Cement Mortar Lining (CML), Add	*375.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*676.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*281.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0169	EA	30" x 16" Mechanical Joint Ductile Iron Tee	4,874.02	707.25
		For Cement Mortar Lining (CML), Add	*404.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*728.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*303.44*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0170	EA	30" x 18" Mechanical Joint Ductile Iron Tee	5,009.43	571.79
		For Cement Mortar Lining (CML), Add	*414.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*745.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*310.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0171	EA	30" x 20" Mechanical Joint Ductile Iron Tee	5,220.69	621.88
		For Cement Mortar Lining (CML), Add	*427.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*770.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*320.88*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0172	EA	30" x 24" Mechanical Joint Ductile Iron Tee	5,491.86	671.81
		For Cement Mortar Lining (CML), Add	*447.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*805.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*335.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0173	EA	30" x 30" Mechanical Joint Ductile Iron Tee	6,839.11	707.25
		For Cement Mortar Lining (CML), Add	*576.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,038.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*432.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0174	EA	30" x 6" Mechanical Joint Ductile Iron Tee	4,040.28	501.80
		For Cement Mortar Lining (CML), Add	*328.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*590.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*246.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0175	EA	36" x 8" Mechanical Joint Ductile Iron Tee	4,716.19	563.81
		For Cement Mortar Lining (CML), Add	*386.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*695.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*289.64*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0176	EA	36" x 10" Mechanical Joint Ductile Iron Tee	5,227.74	570.03
		For Cement Mortar Lining (CML), Add	*436.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*785.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*327.30*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0177	EA	36" x 12" Mechanical Joint Ductile Iron Tee	5,505.92	576.48
		For Cement Mortar Lining (CML), Add	*463.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*833.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*347.44*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0178	EA	36" x 14" Mechanical Joint Ductile Iron Tee	5,708.35	587.13
		For Cement Mortar Lining (CML), Add	*481.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*867.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*361.41*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0179	EA	36" x 16" Mechanical Joint Ductile Iron Tee	5,915.02	602.14
		For Cement Mortar Lining (CML), Add	*500.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*900.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*375.20*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0180	EA	36" x 18" Mechanical Joint Ductile Iron Tee	6,309.59	627.36
		For Cement Mortar Lining (CML), Add	*535.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*964.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*401.93*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0181	EA	36" x 20" Mechanical Joint Ductile Iron Tee	6,742.98	677.45
		For Cement Mortar Lining (CML), Add	*571.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,028.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*428.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0182	EA	36" x 24" Mechanical Joint Ductile Iron Tee	7,452.64	727.37
		For Cement Mortar Lining (CML), Add	*635.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,143.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*476.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0183	EA	36" x 30" Mechanical Joint Ductile Iron Tee	8,224.88	790.70
		For Cement Mortar Lining (CML), Add	*706.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,272.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*530.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0184	EA	36" x 36" Mechanical Joint Ductile Iron Tee	9,568.55	790.70
		For Cement Mortar Lining (CML), Add	*837.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,506.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*627.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0185	EA	42" x 12" Mechanical Joint Ductile Iron Tee	10,657.49	607.53
		For Cement Mortar Lining (CML), Add	*973.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,752.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*730.27*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0186	EA	42" x 14" Mechanical Joint Ductile Iron Tee	10,870.32	618.20
		For Cement Mortar Lining (CML), Add	*993.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,788.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*745.02*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0187	EA	42" x 16" Mechanical Joint Ductile Iron Tee	12,062.73	633.19
		For Cement Mortar Lining (CML), Add	*1,110.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,998.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*832.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0188	EA	42" x 18" Mechanical Joint Ductile Iron Tee	11,302.65	658.41
		For Cement Mortar Lining (CML), Add	*1,030.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,854.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*772.88*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0189	EA	42" x 20" Mechanical Joint Ductile Iron Tee	11,378.53	708.51
		For Cement Mortar Lining (CML), Add	*1,030.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,854.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*772.88*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0190	EA	42" x 24" Mechanical Joint Ductile Iron Tee	11,642.78	758.44
		For Cement Mortar Lining (CML), Add	*1,049.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,888.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*787.02*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0191	EA	42" x 30" Mechanical Joint Ductile Iron Tee	14,075.25	793.92
		For Cement Mortar Lining (CML), Add	*1,287.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,317.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*965.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0192	EA	42" x 36" Mechanical Joint Ductile Iron Tee	14,657.64	821.70
		For Cement Mortar Lining (CML), Add	*1,341.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,414.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,005.95*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0193	EA	42" x 42" Mechanical Joint Ductile Iron Tee	15,494.50	837.24
		For Cement Mortar Lining (CML), Add	*1,422.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,560.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,066.95*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0194	EA	48" x 12" Mechanical Joint Ductile Iron Tee	12,536.18	657.02
		For Cement Mortar Lining (CML), Add	*1,154.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,077.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*865.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0195	EA	48" x 14" Mechanical Joint Ductile Iron Tee	12,760.58	667.69
		For Cement Mortar Lining (CML), Add	*1,174.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,114.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*881.17*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0196	EA	48" x 16" Mechanical Joint Ductile Iron Tee	13,078.32	682.68
		For Cement Mortar Lining (CML), Add	*1,204.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,167.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*903.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0197	EA	48" x 18" Mechanical Joint Ductile Iron Tee	13,410.41	707.92
		For Cement Mortar Lining (CML), Add	*1,233.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,220.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*925.34*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0198	EA	48" x 20" Mechanical Joint Ductile Iron Tee	13,781.33	758.00
		For Cement Mortar Lining (CML), Add	*1,263.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,273.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*947.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0199	EA	48" x 24" Mechanical Joint Ductile Iron Tee	13,896.31	807.93
		For Cement Mortar Lining (CML), Add	*1,267.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,280.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*950.41*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0200	EA	48" x 30" Mechanical Joint Ductile Iron Tee	16,864.48	843.41
		For Cement Mortar Lining (CML), Add	*1,558.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,805.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,168.99*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0201	EA	48" x 36" Mechanical Joint Ductile Iron Tee	19,197.35	871.20
		For Cement Mortar Lining (CML), Add	*1,787.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,217.92*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,340.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0202	EA	48" x 42" Mechanical Joint Ductile Iron Tee	20,127.92	886.73
		For Cement Mortar Lining (CML), Add	*1,878.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,381.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,408.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0203	EA	48" x 48" Mechanical Joint Ductile Iron Tee	20,467.39	911.51
		For Cement Mortar Lining (CML), Add	*1,908.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,435.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,431.48*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) *(33 14 13 13-0002)*

33 14 13 13-0205	EA	4" x 3" Mechanical Joint Ductile Iron Wye (Lateral)	192.46	62.12
		For Cement Mortar Lining (CML), Add	*9.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*17.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0206	EA	4" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	283.04	65.40
		For Cement Mortar Lining (CML), Add	*18.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*33.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*13.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0207	EA	6" x 3" Mechanical Joint Ductile Iron Wye (Lateral)	279.91	82.43
		For Cement Mortar Lining (CML), Add	*15.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*27.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0208	EA	6" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	319.77	85.83
		For Cement Mortar Lining (CML), Add	*18.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*34.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.23*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0209	EA	6" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	423.19	96.03
		For Cement Mortar Lining (CML), Add	*27.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*49.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*20.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0210	EA	8" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	533.64	99.46
		For Cement Mortar Lining (CML), Add	*38.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*68.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*28.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0211	EA	8" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	486.66	109.68
		For Cement Mortar Lining (CML), Add	*32.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*57.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.04*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0212	EA	8" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	581.45	116.49
		For Cement Mortar Lining (CML), Add	*40.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*72.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0213	EA	10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	805.78	106.49
		For Cement Mortar Lining (CML), Add	*64.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*116.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.33*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0214	EA	10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	853.96	116.15
		For Cement Mortar Lining (CML), Add	*67.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*122.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*50.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215	EA	10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	977.12	122.60
		For Cement Mortar Lining (CML), Add	*79.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*142.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*59.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216	EA	10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,096.45	128.83
		For Cement Mortar Lining (CML), Add	*90.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*162.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*67.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217	EA	12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,021.98	119.38
		For Cement Mortar Lining (CML), Add	*84.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*151.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*63.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218	EA	12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,153.46	129.03
		For Cement Mortar Lining (CML), Add	*95.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*172.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*71.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219	EA	12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,381.90	135.47
		For Cement Mortar Lining (CML), Add	*117.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*211.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*88.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0220	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,422.56	141.70
		For Cement Mortar Lining (CML), Add	*120.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*217.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*90.59*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,296.96	148.14
		For Cement Mortar Lining (CML), Add	*107.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*193.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*80.44*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,518.97	150.35
		For Cement Mortar Lining (CML), Add	*129.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*232.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*96.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,732.36	156.80
		For Cement Mortar Lining (CML), Add	*149.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*269.06*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*112.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,245.07	163.02
		For Cement Mortar Lining (CML), Add	*199.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*359.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*149.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,402.91	169.46
		For Cement Mortar Lining (CML), Add	*214.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*386.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*160.96*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0226	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	2,354.27	180.12
		For Cement Mortar Lining (CML), Add	*208.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*374.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*156.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,571.36	180.34
		For Cement Mortar Lining (CML), Add	*129.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*233.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*97.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,724.59	186.79
		For Cement Mortar Lining (CML), Add	*144.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*259.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*108.12*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,022.11	193.01
		For Cement Mortar Lining (CML), Add	*172.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*311.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*129.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,255.16	199.45
		For Cement Mortar Lining (CML), Add	*195.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*351.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*146.47*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	2,805.81	210.11
		For Cement Mortar Lining (CML), Add	*248.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*447.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*186.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0232	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	2,715.15	225.11
		For Cement Mortar Lining (CML), Add	*237.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*427.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*178.06*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0233	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,451.90	230.80
		For Cement Mortar Lining (CML), Add	*210.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*378.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*157.67*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0234	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,635.21	237.25
		For Cement Mortar Lining (CML), Add	*227.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*409.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*170.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,812.40	243.48
		For Cement Mortar Lining (CML), Add	*244.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*439.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*183.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236	EA	18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,004.96	249.91
		For Cement Mortar Lining (CML), Add	*262.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*472.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*196.97*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237	EA	18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,041.92	260.57
		For Cement Mortar Lining (CML), Add	*264.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*476.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*198.53*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0238	EA	18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,078.54	275.57
		For Cement Mortar Lining (CML), Add	*266.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*478.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*199.58*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239	EA	18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	2,836.78	300.80
		For Cement Mortar Lining (CML), Add	*238.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*428.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*178.58*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240	EA	20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,933.40	330.97
		For Cement Mortar Lining (CML), Add	*243.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*437.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*182.39*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241	EA	20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,997.55	337.43
		For Cement Mortar Lining (CML), Add	*248.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*447.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*186.47*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242	EA	20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,280.02	343.64
		For Cement Mortar Lining (CML), Add	*275.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*496.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*206.95*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243	EA	20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,560.51	350.08
		For Cement Mortar Lining (CML), Add	*303.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*545.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*227.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0244	EA	20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,599.81	360.74
		For Cement Mortar Lining (CML), Add	*305.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*549.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*228.99*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245	EA	20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,646.81	375.74
		For Cement Mortar Lining (CML), Add	*307.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*553.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*230.81*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246	EA	20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	4,210.30	400.96
		For Cement Mortar Lining (CML), Add	*360.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*648.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*270.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247	EA	20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	4,020.09	451.06
		For Cement Mortar Lining (CML), Add	*333.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*600.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*250.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0248	EA	24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,578.74	430.84
		For Cement Mortar Lining (CML), Add	*292.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*526.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*219.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249	EA	24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,625.52	437.28
		For Cement Mortar Lining (CML), Add	*296.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*533.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*222.22*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0250	EA	24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,017.91	443.51
		For Cement Mortar Lining (CML), Add	*334.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*602.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*250.94*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251	EA	24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,198.89	449.95
		For Cement Mortar Lining (CML), Add	*351.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*633.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*263.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252	EA	24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,821.29	460.61
		For Cement Mortar Lining (CML), Add	*412.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*742.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*309.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	5,340.35	475.59
		For Cement Mortar Lining (CML), Add	*461.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*831.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*346.48*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	5,961.69	500.83
		For Cement Mortar Lining (CML), Add	*520.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*936.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*390.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	6,550.10	550.92
		For Cement Mortar Lining (CML), Add	*571.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,028.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*428.65*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0256	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	5,862.17	600.85
		For Cement Mortar Lining (CML), Add	*495.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*891.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*371.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0257	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	7,214.98	501.80
		For Cement Mortar Lining (CML), Add	*645.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,161.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*484.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0258	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	8,064.70	508.25
		For Cement Mortar Lining (CML), Add	*729.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,313.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*547.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0259	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	8,523.03	514.47
		For Cement Mortar Lining (CML), Add	*774.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,393.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*580.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0260	EA	30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	8,981.68	520.91
		For Cement Mortar Lining (CML), Add	*819.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,474.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*614.43*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0261	EA	30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	9,633.01	531.58
		For Cement Mortar Lining (CML), Add	*882.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,588.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*662.07*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0262	EA	30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	10,336.03	546.56
		For Cement Mortar Lining (CML), Add	*950.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,711.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*713.09*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263	EA	30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	10,602.18	571.79
		For Cement Mortar Lining (CML), Add	*973.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,752.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*730.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264	EA	30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	10,996.23	621.88
		For Cement Mortar Lining (CML), Add	*1,005.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,809.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*754.05*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265	EA	30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	11,531.20	671.81
		For Cement Mortar Lining (CML), Add	*1,051.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,892.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*788.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266	EA	30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	12,488.54	707.30
		For Cement Mortar Lining (CML), Add	*1,141.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,055.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*856.27*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267	EA	36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	13,612.74	576.48
		For Cement Mortar Lining (CML), Add	*1,273.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,293.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*955.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0268	EA	36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	14,141.43	587.13
		For Cement Mortar Lining (CML), Add	*1,325.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,385.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*993.89*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269	EA	36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	14,669.73	602.14
		For Cement Mortar Lining (CML), Add	*1,375.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,476.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,031.81*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270	EA	36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	15,687.91	627.36
		For Cement Mortar Lining (CML), Add	*1,473.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,652.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,105.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271	EA	36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	16,747.21	677.45
		For Cement Mortar Lining (CML), Add	*1,572.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,829.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,179.06*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	18,566.40	727.37
		For Cement Mortar Lining (CML), Add	*1,746.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,143.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,309.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	20,775.58	762.86
		For Cement Mortar Lining (CML), Add	*1,961.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,531.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,471.48*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	24,740.92	790.64
		For Cement Mortar Lining (CML), Add	*2,354.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,237.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,765.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	21,776.13	708.51
		For Cement Mortar Lining (CML), Add	*2,070.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,726.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,552.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	22,334.24	758.44
		For Cement Mortar Lining (CML), Add	*2,118.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,813.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,588.88*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	23,850.40	793.92
		For Cement Mortar Lining (CML), Add	*2,264.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,076.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,698.56*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	27,236.11	821.70
		For Cement Mortar Lining (CML), Add	*2,599.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,678.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,949.33*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	32,065.65	837.23
		For Cement Mortar Lining (CML), Add	*3,079.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,543.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,309.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0280	EA	48" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	21,508.66	758.00
		For Cement Mortar Lining (CML), Add	*2,036.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,664.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,527.01*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0281	EA	48" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	24,337.88	807.93
		For Cement Mortar Lining (CML), Add	*2,311.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,160.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,733.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0282	EA	48" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	25,931.56	843.41
		For Cement Mortar Lining (CML), Add	*2,465.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,437.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,849.02*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0283	EA	48" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	29,519.74	871.20
		For Cement Mortar Lining (CML), Add	*2,819.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,075.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,114.98*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0284	EA	48" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	38,486.56	886.73
		For Cement Mortar Lining (CML), Add	*3,714.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*6,685.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,785.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0285	EA	48" x 48" Mechanical Joint Ductile Iron Wye (Lateral)	42,226.34	911.47
		For Cement Mortar Lining (CML), Add	*4,084.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*7,352.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3,063.40*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0286 Mechanical Joint Ductile Iron Cross *(33 14 13 13-0002)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0287	EA	3" x 3" Mechanical Joint Ductile Iron Cross	261.54	74.11
		For Cement Mortar Lining (CML), Add	*14.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*26.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0288	EA	4" x 3" Mechanical Joint Ductile Iron Cross	313.10	80.65
		For Cement Mortar Lining (CML), Add	*19.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*34.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.32*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0289	EA	4" x 4" Mechanical Joint Ductile Iron Cross	365.66	81.74
		For Cement Mortar Lining (CML), Add	*24.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*43.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0290	EA	6" x 3" Mechanical Joint Ductile Iron Cross	437.77	101.04
		For Cement Mortar Lining (CML), Add	*28.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*51.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*21.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0291	EA	6" x 4" Mechanical Joint Ductile Iron Cross	428.92	108.99
		For Cement Mortar Lining (CML), Add	*26.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*47.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*19.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0292	EA	6" x 6" Mechanical Joint Ductile Iron Cross	502.60	136.23
		For Cement Mortar Lining (CML), Add	*29.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*53.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*22.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0293	EA	8" x 4" Mechanical Joint Ductile Iron Cross	443.27	119.22
		For Cement Mortar Lining (CML), Add	*26.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*47.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*19.70*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0294	EA	8" x 6" Mechanical Joint Ductile Iron Cross	528.50	146.47
		For Cement Mortar Lining (CML), Add	*30.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*55.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*22.99*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0295	EA	8" x 8" Mechanical Joint Ductile Iron Cross	560.20	156.67
		For Cement Mortar Lining (CML), Add	*32.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*58.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0296	EA	10" x 4" Mechanical Joint Ductile Iron Cross	531.16	124.55
		For Cement Mortar Lining (CML), Add	*34.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*61.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0297	EA	10" x 6" Mechanical Joint Ductile Iron Cross	611.86	150.31
		For Cement Mortar Lining (CML), Add	*38.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*69.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*28.81*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0298	EA	10" x 8" Mechanical Joint Ductile Iron Cross	719.06	159.99
		For Cement Mortar Lining (CML), Add	*47.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*85.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*35.75*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0299	EA	10" x 10" Mechanical Joint Ductile Iron Cross	777.46	171.76
		For Cement Mortar Lining (CML), Add	*51.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*93.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*38.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0300	EA	12 x 4" Mechanical Joint Ductile Iron Cross	637.64	135.26
		For Cement Mortar Lining (CML), Add	*43.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*77.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*32.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0301	EA	12" x 6" Mechanical Joint Ductile Iron Cross	742.63	161.03
		For Cement Mortar Lining (CML), Add	*49.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*89.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*37.40*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0302	EA	12" x 8" Mechanical Joint Ductile Iron Cross	1,045.36	170.69
		For Cement Mortar Lining (CML), Add	*78.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*141.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*59.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0303	EA	12" x 10" Mechanical Joint Ductile Iron Cross	1,063.27	182.52
		For Cement Mortar Lining (CML), Add	*78.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*141.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*59.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0304	EA	12" x 12" Mechanical Joint Ductile Iron Cross	1,200.99	193.23
		For Cement Mortar Lining (CML), Add	*90.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*163.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*68.12*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0305	EA	14" x 6" Mechanical Joint Ductile Iron Cross	1,221.71	177.12
		For Cement Mortar Lining (CML), Add	*95.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*171.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*71.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0306	EA	14" x 8" Mechanical Joint Ductile Iron Cross	1,428.41	186.79
		For Cement Mortar Lining (CML), Add	*114.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*206.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*85.90*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0307	EA	14" x 10" Mechanical Joint Ductile Iron Cross	1,469.46	198.61
		For Cement Mortar Lining (CML), Add	*116.85*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*210.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*87.64*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0308	EA	14" x 12" Mechanical Joint Ductile Iron Cross	1,550.48	209.33
		For Cement Mortar Lining (CML), Add	*123.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*222.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*92.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0309	EA	14" x 14" Mechanical Joint Ductile Iron Cross	1,712.55	225.43
		For Cement Mortar Lining (CML), Add	*137.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*246.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*102.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0310	EA	16" x 6" Mechanical Joint Ductile Iron Cross	1,395.84	199.65
		For Cement Mortar Lining (CML), Add	*109.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*196.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*82.00*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0311	EA	16" x 8" Mechanical Joint Ductile Iron Cross	1,580.55	209.33
		For Cement Mortar Lining (CML), Add	*126.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*227.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*94.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0312	EA	16" x 10" Mechanical Joint Ductile Iron Cross	1,879.11	221.13
		For Cement Mortar Lining (CML), Add	*154.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*277.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*115.80*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0313	EA	16" x 12" Mechanical Joint Ductile Iron Cross	2,087.90	231.86
		For Cement Mortar Lining (CML), Add	*173.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*312.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*130.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0314	EA	16" x 14" Mechanical Joint Ductile Iron Cross	2,507.97	247.96
		For Cement Mortar Lining (CML), Add	*213.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*383.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*159.92*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0315	EA	16" x 16" Mechanical Joint Ductile Iron Cross	2,927.36	270.52
		For Cement Mortar Lining (CML), Add	*251.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*453.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*188.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0316	EA	18" x 6" Mechanical Joint Ductile Iron Cross	2,267.83	236.08
		For Cement Mortar Lining (CML), Add	*191.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*343.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*143.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0317	EA	18" x 8" Mechanical Joint Ductile Iron Cross	2,395.88	245.76
		For Cement Mortar Lining (CML), Add	*202.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*364.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*151.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318	EA	18" x 10" Mechanical Joint Ductile Iron Cross	2,508.65	257.56
		For Cement Mortar Lining (CML), Add	*211.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*381.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*158.88*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319	EA	18" x 12" Mechanical Joint Ductile Iron Cross	2,714.63	268.29
		For Cement Mortar Lining (CML), Add	*230.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*415.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*173.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0320	EA	18" x 14" Mechanical Joint Ductile Iron Cross	3,154.36	284.39
		For Cement Mortar Lining (CML), Add	*272.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*490.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*204.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321	EA	18" x 16" Mechanical Joint Ductile Iron Cross	3,359.73	306.91
		For Cement Mortar Lining (CML), Add	*289.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*521.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*217.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322	EA	18" x 18" Mechanical Joint Ductile Iron Cross	3,528.32	343.33
		For Cement Mortar Lining (CML), Add	*300.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*541.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*225.61*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0323	EA	20" x 6" Mechanical Joint Ductile Iron Cross	2,850.67	296.22
		For Cement Mortar Lining (CML), Add	*240.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*432.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*180.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0324	EA	20" x 8" Mechanical Joint Ductile Iron Cross	2,979.85	305.88
		For Cement Mortar Lining (CML), Add	*251.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*452.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*188.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0325	EA	20" x 10" Mechanical Joint Ductile Iron Cross	3,072.95	317.71
		For Cement Mortar Lining (CML), Add	*259.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*466.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*194.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0326	EA	20" x 12" Mechanical Joint Ductile Iron Cross	3,277.78	328.41
		For Cement Mortar Lining (CML), Add	*278.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*500.43*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*208.51*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0327	EA	20" x 14" Mechanical Joint Ductile Iron Cross	3,340.34	344.52
		For Cement Mortar Lining (CML), Add	*281.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*507.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*211.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0328	EA	20" x 16" Mechanical Joint Ductile Iron Cross	4,017.75	367.04
		For Cement Mortar Lining (CML), Add	*346.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*623.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*259.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0329	EA	20" x 18" Mechanical Joint Ductile Iron Cross	4,186.33	403.47
		For Cement Mortar Lining (CML), Add	*357.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*643.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*268.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0330	EA	20" x 20" Mechanical Joint Ductile Iron Cross	4,542.39	463.56
		For Cement Mortar Lining (CML), Add	*384.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*691.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*288.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0331	EA	24" x 6" Mechanical Joint Ductile Iron Cross	3,871.50	370.55
		For Cement Mortar Lining (CML), Add	*331.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*595.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*248.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0332	EA	24" x 8" Mechanical Joint Ductile Iron Cross	3,962.80	380.22
		For Cement Mortar Lining (CML), Add	*338.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*609.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*253.98*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0333	EA	24" x 10" Mechanical Joint Ductile Iron Cross	4,112.31	392.02
		For Cement Mortar Lining (CML), Add	*351.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*633.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*263.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0334	EA	24" x 12" Mechanical Joint Ductile Iron Cross	4,241.93	402.75
		For Cement Mortar Lining (CML), Add	*363.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*653.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*272.38*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0335	EA	24" x 14" Mechanical Joint Ductile Iron Cross	4,323.00	418.85
		For Cement Mortar Lining (CML), Add	*368.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*663.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*276.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0336	EA	24" x 16" Mechanical Joint Ductile Iron Cross	4,490.19	441.38
		For Cement Mortar Lining (CML), Add	*382.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*687.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*286.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0337	EA	24" x 18" Mechanical Joint Ductile Iron Cross	5,888.62	477.80
		For Cement Mortar Lining (CML), Add	*516.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*929.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*387.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0338	EA	24" x 20" Mechanical Joint Ductile Iron Cross	6,225.00	537.94
		For Cement Mortar Lining (CML), Add	*540.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*973.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*405.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0339	EA	24" x 24" Mechanical Joint Ductile Iron Cross	6,867.51	612.29
		For Cement Mortar Lining (CML), Add	*593.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,069.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*445.49*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0340	EA	30" x 8" Mechanical Joint Ductile Iron Cross	7,307.63	492.69
		For Cement Mortar Lining (CML), Add	*656.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,181.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*492.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0341	EA	30" x 10" Mechanical Joint Ductile Iron Cross	7,453.95	504.51
		For Cement Mortar Lining (CML), Add	*668.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,204.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*501.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0342	EA	30" x 12" Mechanical Joint Ductile Iron Cross	7,597.47	515.23
		For Cement Mortar Lining (CML), Add	*681.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,227.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*511.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0343	EA	30" x 14" Mechanical Joint Ductile Iron Cross	7,768.78	531.33
		For Cement Mortar Lining (CML), Add	*696.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,253.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*522.28*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0344	EA	30" x 16" Mechanical Joint Ductile Iron Cross	7,967.21	553.86
		For Cement Mortar Lining (CML), Add	*712.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,283.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*534.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0345	EA	30" x 18" Mechanical Joint Ductile Iron Cross	8,205.21	590.29
		For Cement Mortar Lining (CML), Add	*731.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,315.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*548.31*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0346	EA	30" x 20" Mechanical Joint Ductile Iron Cross	8,514.98	650.42
		For Cement Mortar Lining (CML), Add	*752.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,355.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*564.71*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0347	EA	30" x 24" Mechanical Joint Ductile Iron Cross	10,896.40	724.75
		For Cement Mortar Lining (CML), Add	*979.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,763.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*734.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0348	EA	30" x 30" Mechanical Joint Ductile Iron Cross	12,531.53	837.24
		For Cement Mortar Lining (CML), Add	*1,126.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,027.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*844.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0349	EA	36" x 8" Mechanical Joint Ductile Iron Cross	10,130.96	534.16
		For Cement Mortar Lining (CML), Add	*932.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,677.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*699.12*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0350	EA	36" x 10" Mechanical Joint Ductile Iron Cross	10,276.12	545.97
		For Cement Mortar Lining (CML), Add	*944.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,700.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*708.67*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0351	EA	36" x 12" Mechanical Joint Ductile Iron Cross	10,401.13	556.69
		For Cement Mortar Lining (CML), Add	*955.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,720.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*716.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0352	EA	36" x 14" Mechanical Joint Ductile Iron Cross	10,552.77	572.79
		For Cement Mortar Lining (CML), Add	*968.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,743.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*726.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0353	EA	36" x 16" Mechanical Joint Ductile Iron Cross	10,732.68	595.32
		For Cement Mortar Lining (CML), Add	*983.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,769.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*737.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0354	EA	36" x 18" Mechanical Joint Ductile Iron Cross	10,951.02	631.74
		For Cement Mortar Lining (CML), Add	*999.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,798.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*749.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0355	EA	36" x 20" Mechanical Joint Ductile Iron Cross	11,242.27	691.88
		For Cement Mortar Lining (CML), Add	*1,019.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,834.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*764.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0356	EA	36" x 24" Mechanical Joint Ductile Iron Cross	11,736.70	766.22
		For Cement Mortar Lining (CML), Add	*1,057.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,903.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*793.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0357	EA	36" x 30" Mechanical Joint Ductile Iron Cross	15,741.29	878.69
		For Cement Mortar Lining (CML), Add	*1,440.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,593.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,080.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0358	EA	36" x 36" Mechanical Joint Ductile Iron Cross	17,275.76	920.20
		For Cement Mortar Lining (CML), Add	*1,588.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,858.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,191.12*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0359	EA	42" x 12" Mechanical Joint Ductile Iron Cross	13,538.10	580.66
		For Cement Mortar Lining (CML), Add	*1,265.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,278.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*949.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0360	EA	42" x 14" Mechanical Joint Ductile Iron Cross	15,281.43	596.77
		For Cement Mortar Lining (CML), Add	*1,437.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,587.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,078.29*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0361	EA	42" x 16" Mechanical Joint Ductile Iron Cross	13,856.94	619.29
		For Cement Mortar Lining (CML), Add	*1,291.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,325.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*968.90*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0362	EA	42" x 18" Mechanical Joint Ductile Iron Cross	14,052.13	655.72
		For Cement Mortar Lining (CML), Add	*1,305.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,350.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*979.40*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0363	EA	42" x 20" Mechanical Joint Ductile Iron Cross	14,334.14	715.86
		For Cement Mortar Lining (CML), Add	*1,324.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,384.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*993.71*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0364	EA	42" x 24" Mechanical Joint Ductile Iron Cross	14,795.00	790.19
		For Cement Mortar Lining (CML), Add	*1,359.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*2,447.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,019.83*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0365	EA	42" x 30" Mechanical Joint Ductile Iron Cross	18,894.47	902.67
		For Cement Mortar Lining (CML), Add	*1,752.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,154.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,314.51*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0366	EA	42" x 36" Mechanical Joint Ductile Iron Cross	24,574.33	944.12
		For Cement Mortar Lining (CML), Add	*2,314.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,165.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,735.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0367	EA	42" x 42" Mechanical Joint Ductile Iron Cross	26,313.69	968.12
		For Cement Mortar Lining (CML), Add	*2,484.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,472.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,863.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0368	EA	48" x 12" Mechanical Joint Ductile Iron Cross	18,255.77	675.85
		For Cement Mortar Lining (CML), Add	*1,723.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,101.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,292.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0369	EA	48" x 14" Mechanical Joint Ductile Iron Cross	18,384.29	691.94
		For Cement Mortar Lining (CML), Add	*1,733.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,120.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,300.19*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0370	EA	48" x 16" Mechanical Joint Ductile Iron Cross	18,557.26	714.48
		For Cement Mortar Lining (CML), Add	*1,747.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,145.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,310.60*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0371	EA	48" x 18" Mechanical Joint Ductile Iron Cross	18,751.29	750.91
		For Cement Mortar Lining (CML), Add	*1,761.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,170.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,321.02*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0372	EA	48" x 20" Mechanical Joint Ductile Iron Cross	19,017.11	811.04
		For Cement Mortar Lining (CML), Add	*1,778.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,201.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,334.12*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0373	EA	48" x 24" Mechanical Joint Ductile Iron Cross	19,459.46	885.37
		For Cement Mortar Lining (CML), Add	*1,811.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,261.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,358.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0374	EA	48" x 30" Mechanical Joint Ductile Iron Cross	20,621.41	997.85
		For Cement Mortar Lining (CML), Add	*1,910.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*3,439.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,433.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0375	EA	48" x 36" Mechanical Joint Ductile Iron Cross	25,187.11	1,039.31
		For Cement Mortar Lining (CML), Add	*2,361.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*4,250.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1,770.93*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0376	EA	48" x 42" Mechanical Joint Ductile Iron Cross	32,265.85	1,063.29
		For Cement Mortar Lining (CML), Add	*3,065.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,517.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,299.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0377	EA	48" x 48" Mechanical Joint Ductile Iron Cross	34,374.58	1,158.42
		For Cement Mortar Lining (CML), Add	*3,261.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5,871.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2,446.45*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers *(33 14 13 13-0002)*

33 14 13 13-0379	EA	4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	128.20	40.33
		For Cement Mortar Lining (CML), Add	*6.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*12.08*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.03*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0380	EA	6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	150.63	50.54
		For Cement Mortar Lining (CML), Add	*7.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*13.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0381	EA	6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	162.53	53.82
		For Cement Mortar Lining (CML), Add	*8.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*14.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0382	EA	8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	203.03	60.64
		For Cement Mortar Lining (CML), Add	*11.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*19.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.33*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0383	EA	8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	225.35	70.85
		For Cement Mortar Lining (CML), Add	*11.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*21.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.85*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0384	EA	10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	240.92	63.56
		For Cement Mortar Lining (CML), Add	*14.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*26.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385	EA	10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	263.65	73.22
		For Cement Mortar Lining (CML), Add	*15.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*27.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386	EA	10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	288.45	79.65
		For Cement Mortar Lining (CML), Add	*16.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*30.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*12.58*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387	EA	12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	288.85	69.99
		For Cement Mortar Lining (CML), Add	*18.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*32.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*13.71*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388	EA	12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	322.00	79.65
		For Cement Mortar Lining (CML), Add	*20.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*36.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*15.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389	EA	12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	337.55	86.09
		For Cement Mortar Lining (CML), Add	*20.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*37.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*15.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0390	EA	12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	368.96	92.32
		For Cement Mortar Lining (CML), Add	*22.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*41.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*17.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391	EA	14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	583.42	90.32
		For Cement Mortar Lining (CML), Add	*44.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*80.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*33.49*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392	EA	14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	570.05	96.76
		For Cement Mortar Lining (CML), Add	*42.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*76.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*31.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393	EA	14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	517.00	102.98
		For Cement Mortar Lining (CML), Add	*36.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*64.97*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*27.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394	EA	14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	544.12	109.42
		For Cement Mortar Lining (CML), Add	*37.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*68.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*28.37*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395	EA	16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	684.81	105.30
		For Cement Mortar Lining (CML), Add	*52.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*94.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*39.39*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0396	EA	16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	674.92	111.75
		For Cement Mortar Lining (CML), Add	*50.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*91.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*37.92*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397	EA	16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	665.83	117.98
		For Cement Mortar Lining (CML), Add	*48.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*87.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*36.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398	EA	16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	720.71	124.42
		For Cement Mortar Lining (CML), Add	*53.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*95.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*39.92*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399	EA	16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	800.49	135.07
		For Cement Mortar Lining (CML), Add	*59.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*107.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*44.69*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400	EA	18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	856.60	136.99
		For Cement Mortar Lining (CML), Add	*64.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*116.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401	EA	18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	956.27	143.21
		For Cement Mortar Lining (CML), Add	*73.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*133.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*55.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0402	EA	18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	926.69	149.65
		For Cement Mortar Lining (CML), Add	*70.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*125.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*52.50*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403	EA	18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	983.34	160.31
		For Cement Mortar Lining (CML), Add	*74.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*133.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*55.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404	EA	18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,038.46	175.31
		For Cement Mortar Lining (CML), Add	*77.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*139.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*57.96*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405	EA	20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,206.68	187.08
		For Cement Mortar Lining (CML), Add	*92.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*166.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*69.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0406	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,162.89	193.29
		For Cement Mortar Lining (CML), Add	*87.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*156.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*65.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,081.25	199.73
		For Cement Mortar Lining (CML), Add	*77.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*140.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*58.40*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0408	EA	20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,091.62	210.39
		For Cement Mortar Lining (CML), Add	*77.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*139.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*57.96*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409	EA	20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,130.55	225.39
		For Cement Mortar Lining (CML), Add	*78.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*142.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*59.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410	EA	20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,348.10	250.61
		For Cement Mortar Lining (CML), Add	*96.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*174.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*72.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411	EA	24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,571.10	249.66
		For Cement Mortar Lining (CML), Add	*119.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*214.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*89.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412	EA	24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,617.34	260.33
		For Cement Mortar Lining (CML), Add	*122.29*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*220.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*91.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413	EA	24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,656.25	275.32
		For Cement Mortar Lining (CML), Add	*123.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*223.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*92.93*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0414	EA	24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,640.10	300.54
		For Cement Mortar Lining (CML), Add	*118.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*213.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*88.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415	EA	24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,998.30	350.64
		For Cement Mortar Lining (CML), Add	*146.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*264.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*110.03*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416	EA	30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,160.84	310.80
		For Cement Mortar Lining (CML), Add	*268.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*484.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*201.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417	EA	30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,305.51	336.03
		For Cement Mortar Lining (CML), Add	*279.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*503.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*209.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418	EA	30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,226.37	386.11
		For Cement Mortar Lining (CML), Add	*264.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*475.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*198.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419	EA	30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,175.91	436.05
		For Cement Mortar Lining (CML), Add	*251.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*452.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*188.64*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0420	EA	36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,719.29	413.90
		For Cement Mortar Lining (CML), Add	*409.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*736.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*306.91*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421	EA	36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,951.51	463.83
		For Cement Mortar Lining (CML), Add	*324.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*584.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*243.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422	EA	36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,289.89	499.32
		For Cement Mortar Lining (CML), Add	*353.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*636.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*265.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423	EA	42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,062.18	354.11
		For Cement Mortar Lining (CML), Add	*552.56*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*994.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*414.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424	EA	42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,049.49	379.34
		For Cement Mortar Lining (CML), Add	*547.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*985.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*410.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425	EA	42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,106.86	429.42
		For Cement Mortar Lining (CML), Add	*545.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*982.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*409.22*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0426	EA	42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,815.38	479.36
		For Cement Mortar Lining (CML), Add	*608.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,096.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*456.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0427	EA	42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,668.23	514.84
		For Cement Mortar Lining (CML), Add	*488.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*879.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*366.61*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0428	EA	42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,934.77	542.62
		For Cement Mortar Lining (CML), Add	*511.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*920.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*383.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0429	EA	48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	8,128.97	378.86
		For Cement Mortar Lining (CML), Add	*755.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,359.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*566.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0430	EA	48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,896.48	404.09
		For Cement Mortar Lining (CML), Add	*728.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,311.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*546.32*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431	EA	48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,555.85	454.17
		For Cement Mortar Lining (CML), Add	*686.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,236.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*515.08*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0432	EA	48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,806.21	504.11
		For Cement Mortar Lining (CML), Add	*704.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,267.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*528.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433	EA	48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,302.70	539.58
		For Cement Mortar Lining (CML), Add	*848.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,527.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*636.39*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434	EA	48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	8,186.68	567.37
		For Cement Mortar Lining (CML), Add	*732.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,318.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*549.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435	EA	48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	8,971.49	582.90
		For Cement Mortar Lining (CML), Add	*808.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,455.90*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*606.62*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0436 Mechanical Joint Ductile Iron Caps *(33 14 13 13-0002)*

33 14 13 13-0437	EA	3" Mechanical Joint Ductile Iron Caps	159.09	85.15
		For Cement Mortar Lining (CML), Add	*3.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438	EA	4" Mechanical Joint Ductile Iron Caps	182.61	99.90
		For Cement Mortar Lining (CML), Add	*3.12*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*5.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2.34*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0439	EA	6" Mechanical Joint Ductile Iron Caps	244.75	124.88
		For Cement Mortar Lining (CML), Add	*5.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*10.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440	EA	8" Mechanical Joint Ductile Iron Caps	308.81	142.73
		For Cement Mortar Lining (CML), Add	*9.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*16.66*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.94*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441	EA	10" Mechanical Joint Ductile Iron Caps	442.16	214.71
		For Cement Mortar Lining (CML), Add	*11.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*21.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442	EA	12" Mechanical Joint Ductile Iron Caps	529.58	234.22
		For Cement Mortar Lining (CML), Add	*17.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*31.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*13.10*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443	EA	14" Mechanical Joint Ductile Iron Caps	655.31	257.64
		For Cement Mortar Lining (CML), Add	*26.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*47.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*19.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444	EA	16" Mechanical Joint Ductile Iron Caps	788.94	286.23
		For Cement Mortar Lining (CML), Add	*35.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*63.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*26.64*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0445	EA	18" Mechanical Joint Ductile Iron Caps	921.82	322.05
		For Cement Mortar Lining (CML), Add	*43.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*78.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*32.54*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0446	EA	20" Mechanical Joint Ductile Iron Caps	1,118.80	368.02
		For Cement Mortar Lining (CML), Add	*56.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*101.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*42.08*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0447	EA	24" Mechanical Joint Ductile Iron Caps	1,421.15	429.40
		For Cement Mortar Lining (CML), Add	*77.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*138.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*57.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0448	EA	30" Mechanical Joint Ductile Iron Caps	2,542.79	515.29
		For Cement Mortar Lining (CML), Add	*176.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*317.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*132.15*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0449	EA	36" Mechanical Joint Ductile Iron Caps	4,180.70	644.11
		For Cement Mortar Lining (CML), Add	*320.48*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*576.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*240.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0450	EA	42" Mechanical Joint Ductile Iron Caps	6,031.49	772.93
		For Cement Mortar Lining (CML), Add	*486.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*874.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*364.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0451	EA	48" Mechanical Joint Ductile Iron Caps	7,157.76	858.81
		For Cement Mortar Lining (CML), Add	*585.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,054.18*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*439.24*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0452 Mechanical Joint Ductile Iron Plug *(33 14 13 13-0002)*

33 14 13 13-0453	EA	3" Mechanical Joint Ductile Iron Plug	163.72	85.15
		For Cement Mortar Lining (CML), Add	*3.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*6.25*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2.60*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0454	EA	4" Mechanical Joint Ductile Iron Plug	189.56	99.90
		For Cement Mortar Lining (CML), Add	*3.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*6.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2.86*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0455	EA	6" Mechanical Joint Ductile Iron Plug	263.27	124.88
		For Cement Mortar Lining (CML), Add	*7.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*13.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0456	EA	8" Mechanical Joint Ductile Iron Plug	327.32	142.73
		For Cement Mortar Lining (CML), Add	*11.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*19.99*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.33*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0457	EA	10" Mechanical Joint Ductile Iron Plug	517.37	214.71
		For Cement Mortar Lining (CML), Add	*19.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*34.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.40*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0458	EA	12" Mechanical Joint Ductile Iron Plug	550.41	234.22
		For Cement Mortar Lining (CML), Add	*19.55*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*35.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0459	EA	14" Mechanical Joint Ductile Iron Plug	788.36	257.64
		For Cement Mortar Lining (CML), Add	*39.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*71.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*29.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460	EA	16" Mechanical Joint Ductile Iron Plug	484.66	286.23
		For Cement Mortar Lining (CML), Add	*5.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*9.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461	EA	18" Mechanical Joint Ductile Iron Plug	1,119.66	322.05
		For Cement Mortar Lining (CML), Add	*63.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*113.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*47.38*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462	EA	20" Mechanical Joint Ductile Iron Plug	1,388.37	368.02
		For Cement Mortar Lining (CML), Add	*83.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*149.53*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*62.30*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463	EA	24" Mechanical Joint Ductile Iron Plug	1,802.94	429.40
		For Cement Mortar Lining (CML), Add	*115.23*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*207.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*86.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0464	EA	30" Mechanical Joint Ductile Iron Plug	3,068.05	515.29
		For Cement Mortar Lining (CML), Add	*228.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*411.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*171.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465	EA	36" Mechanical Joint Ductile Iron Plug	4,509.28	644.11
		For Cement Mortar Lining (CML), Add	*353.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*636.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*265.00*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466	EA	42" Mechanical Joint Ductile Iron Plug	6,073.14	772.93
		For Cement Mortar Lining (CML), Add	*490.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*882.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*367.65*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467	EA	48" Mechanical Joint Ductile Iron Plug	7,835.74	858.81
		For Cement Mortar Lining (CML), Add	*653.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,176.21*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*490.09*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0468 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters *(33 14 13 13-0002)*

33 14 13 13-0469	EA	3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	271.29	129.43
		For Cement Mortar Lining (CML), Add	*7.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*13.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.64*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470	EA	4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	308.05	149.86
		For Cement Mortar Lining (CML), Add	*8.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*14.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.07*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0471	EA	6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	396.05	187.32
		For Cement Mortar Lining (CML), Add	*11.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*20.20*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*8.42*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472	EA	8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	494.44	214.06
		For Cement Mortar Lining (CML), Add	*17.01*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*30.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*12.76*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473	EA	10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	784.14	322.05
		For Cement Mortar Lining (CML), Add	*29.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*53.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*22.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474	EA	12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	911.80	351.34
		For Cement Mortar Lining (CML), Add	*37.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*68.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*28.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475	EA	14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,188.33	386.47
		For Cement Mortar Lining (CML), Add	*60.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*108.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*45.21*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476	EA	16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,339.00	429.40
		For Cement Mortar Lining (CML), Add	*68.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*123.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*51.63*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0477	EA	18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,784.77	483.08
		For Cement Mortar Lining (CML), Add	*105.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*189.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*78.96*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478	EA	20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,090.64	552.08
		For Cement Mortar Lining (CML), Add	*125.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*225.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*94.06*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0479	EA	24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,520.46	644.11
		For Cement Mortar Lining (CML), Add	*154.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*278.02*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*115.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480	EA	30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,013.75	772.93
		For Cement Mortar Lining (CML), Add	*284.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*511.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*213.20*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0481	EA	36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	5,537.54	966.16
		For Cement Mortar Lining (CML), Add	*407.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*733.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*305.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482	EA	42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	7,352.53	1,104.16
		For Cement Mortar Lining (CML), Add	*567.95*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,022.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*425.96*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0483	EA	48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	9,064.83	1,288.21
		For Cement Mortar Lining (CML), Add	*711.30*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,280.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*533.47*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0484 Mechanical Joint Ductile Iron Long Sleeves *(33 14 13 13-0002)*

33 14 13 13-0485	EA	3" Mechanical Joint Ductile Iron Long Sleeves	259.72	129.43
		For Cement Mortar Lining (CML), Add	*6.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*11.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.77*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0486	EA	4" Mechanical Joint Ductile Iron Long Sleeves	302.26	149.86
		For Cement Mortar Lining (CML), Add	*7.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*13.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*5.64*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0487	EA	6" Mechanical Joint Ductile Iron Long Sleeves	409.93	187.32
		For Cement Mortar Lining (CML), Add	*12.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*22.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*9.46*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0488	EA	8" Mechanical Joint Ductile Iron Long Sleeves	531.47	214.06
		For Cement Mortar Lining (CML), Add	*20.71*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*37.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*15.53*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0489	EA	10" Mechanical Joint Ductile Iron Long Sleeves	734.39	322.05
		For Cement Mortar Lining (CML), Add	*24.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*44.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*18.48*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0490	EA	12" Mechanical Joint Ductile Iron Long Sleeves	865.52	351.34
		For Cement Mortar Lining (CML), Add	*33.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*59.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*24.99*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0491	EA	14" Mechanical Joint Ductile Iron Long Sleeves	1,088.83	386.47
		For Cement Mortar Lining (CML), Add	*50.33*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*90.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*37.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0492	EA	16" Mechanical Joint Ductile Iron Long Sleeves	1,288.09	429.40
		For Cement Mortar Lining (CML), Add	*63.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*114.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*47.81*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0493	EA	18" Mechanical Joint Ductile Iron Long Sleeves	1,547.60	483.08
		For Cement Mortar Lining (CML), Add	*81.57*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*146.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*61.17*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0494	EA	20" Mechanical Joint Ductile Iron Long Sleeves	1,821.07	552.08
		For Cement Mortar Lining (CML), Add	*98.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*177.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*73.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0495	EA	24" Mechanical Joint Ductile Iron Long Sleeves	2,272.87	644.11
		For Cement Mortar Lining (CML), Add	*129.70*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*233.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*97.27*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0496	EA	30" Mechanical Joint Ductile Iron Long Sleeves	3,887.64	772.93
		For Cement Mortar Lining (CML), Add	*271.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*488.98*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*203.74*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0497	EA	36" Mechanical Joint Ductile Iron Long Sleeves	5,278.38	966.16
		For Cement Mortar Lining (CML), Add	*381.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*686.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*286.09*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0498	EA	42" Mechanical Joint Ductile Iron Long Sleeves	6,773.29	1,102.89
		For Cement Mortar Lining (CML), Add	*510.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*918.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*382.66*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0499	EA	48" Mechanical Joint Ductile Iron Long Sleeves	9,119.21	1,288.21
		For Cement Mortar Lining (CML), Add	*716.74*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,290.13*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*537.55*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0500 Mechanical Joint Ductile Iron Gland Packs *(33 14 13 13-0002)*

Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.

33 14 13 13-0501 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts *(33 14 13 13-0500)*

Note: Labor installation is included with pipe fittings or valves.

33 14 13 13-0502	EA	3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	23.14
33 14 13 13-0503	EA	4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	38.45
		Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0504	EA	6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	46.46
		Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0505	EA	8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	54.47
		Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0506	EA	10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	75.30
		Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0507	EA	12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	80.11
		Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0508	EA	14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	131.38
		Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0509	EA	16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	139.39
		Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0510	EA	18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	185.85
		Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0511	EA	20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	240.32
		Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0512	EA	24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	334.85
		Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0513	EA	30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	799.48
		Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	
33 14 13 13-0514	EA	36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	1,723.92
		Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	
33 14 13 13-0515	EA	42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	2,516.99
		Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	
33 14 13 13-0516	EA	48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	3,088.96
		Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	

33 14 13 13-0517 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts *(33 14 13 13-0500)*

Note: Labor installation is included with pipe fittings or valves.

33 14 13 13-0518	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	39.34
33 14 13 13-0519	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	54.47
		Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0520	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	68.89
		Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0521	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	75.30
		Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0522	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	104.14
		Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0523	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	108.95
		Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0524	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	165.02
		Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	
33 14 13 13-0525	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	181.04
		Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0526	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	240.32	
33 14 13 13-0527	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	310.82	
33 14 13 13-0528	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	434.19	

33 14 13 13-0529 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts *(33 14 13 13-0500)*

Note: Labor installation is included with pipe fittings or valves.

33 14 13 13-0530	EA	3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	25.45	
33 14 13 13-0531	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	41.66	
33 14 13 13-0532	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	49.67	
33 14 13 13-0533	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	59.28	
33 14 13 13-0534	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	81.71	
33 14 13 13-0535	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	86.52	
33 14 13 13-0536	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	142.59	
33 14 13 13-0537	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	150.60	
33 14 13 13-0538	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	203.47	
33 14 13 13-0539	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	261.15	
33 14 13 13-0540	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	365.29	
33 14 13 13-0541	EA	30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	874.78	
33 14 13 13-0542	EA	36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	1,938.61	
33 14 13 13-0543	EA	42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	2,806.98	
33 14 13 13-0544	EA	48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	3,454.26	

33 14 13 13-0545 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) *(33 14 13 13-0002)*

Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.

33 14 13 13-0546	EA	3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC)	172.38	64.92
33 14 13 13-0547	EA	4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC)	196.90	76.89
33 14 13 13-0548	EA	6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC)	244.25	95.16
33 14 13 13-0549	EA	8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC)	304.03	111.05
33 14 13 13-0550	EA	10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC)	438.07	161.03
33 14 13 13-0551	EA	12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC)	539.02	184.06
33 14 13 13-0552	EA	14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC)	626.49	198.11
33 14 13 13-0553	EA	16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC)	769.91	214.71
33 14 13 13-0554	EA	18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC)	986.61	257.64
33 14 13 13-0555	EA	20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC)	1,163.19	286.14
33 14 13 13-0556	EA	24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC)	1,507.54	330.16
33 14 13 13-0557	EA	30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC)	2,908.79	395.93
33 14 13 13-0558	EA	36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC)	3,592.53	495.48
33 14 13 13-0559	EA	42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC)	5,290.37	571.70
33 14 13 13-0560	EA	48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC)	6,775.14	735.26

33 14 13 13-0561 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) *(33 14 13 13-0002)*

33 14 13 13-0562	EA	3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	3,568.27	53.13
33 14 13 13-0563	EA	4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	3,716.30	66.41
33 14 13 13-0564	EA	6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	5,392.64	98.15
33 14 13 13-0565	EA	8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	7,327.38	116.42
33 14 13 13-0566	EA	10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	9,234.14	128.53
33 14 13 13-0567	EA	12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	12,315.06	150.78
33 14 13 13-0568	EA	14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	15,169.60	169.08
33 14 13 13-0569	EA	16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	17,945.93	193.23
33 14 13 13-0570	EA	18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	20,235.81	270.52
33 14 13 13-0571	EA	20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	27,221.84	338.16
33 14 13 13-0572	EA	24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint	37,717.93	450.88

33 14 13 13-0573 Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) *(33 14 13 13-0002)*

Note: Includes machined bolts and gasket.

33 14 13 13-0574	EA	3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM)	171.18	64.92

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0575	EA	4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM)	219.06	76.89
33 14 13 13-0576	EA	6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM)	282.68	95.16
33 14 13 13-0577	EA	8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM)	322.88	111.05
33 14 13 13-0578	EA	10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM)	564.51	170.29
33 14 13 13-0579	EA	12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM)	639.09	194.65

33 14 13 13-0580 Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) *(33 14 13 13-0002)*

Note: Includes nuts, bolts and gasket.

33 14 13 13-0581	EA	3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300))	246.47	64.92
33 14 13 13-0582	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400)	306.18	76.89
33 14 13 13-0583	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600)	422.73	95.16
33 14 13 13-0584	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800)	608.47	111.05
33 14 13 13-0585	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000)	882.48	170.29
33 14 13 13-0586	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200)	1,095.47	194.65
33 14 13 13-0587	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400)	1,678.61	209.51
33 14 13 13-0588	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600)	2,345.64	227.06
33 14 13 13-0589	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800)	2,654.69	272.47
33 14 13 13-0590	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000)	2,932.64	302.61
33 14 13 13-0591	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400)	3,546.03	349.15
33 14 13 13-0592	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000)	4,559.05	418.72
33 14 13 13-0593	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600)	6,799.05	523.99
33 14 13 13-0594	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200)	17,656.16	604.60
33 14 13 13-0595	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800)	22,615.34	777.57

33 14 13 13-0596 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping *(33 14 13 13-0001)*

Note: . See CSI section 33 14 13 13-0500 for bolts and gaskets.

33 14 13 13-0597 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow *(33 14 13 13-0596)*

33 14 13 13-0598	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	302.58	37.05
33 14 13 13-0599	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	362.11	44.38
33 14 13 13-0600	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	560.71	65.02
33 14 13 13-0601	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	762.08	77.40
33 14 13 13-0602	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,036.85	85.88
33 14 13 13-0603	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,311.51	100.52
33 14 13 13-0604	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,853.00	113.21
33 14 13 13-0605	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,245.31	128.83
33 14 13 13-0606	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,722.50	180.54
33 14 13 13-0607	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,393.61	225.43
33 14 13 13-0608	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,791.19	300.59
33 14 13 13-0609	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	7,611.36	322.05
33 14 13 13-0610	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	11,157.50	334.74
33 14 13 13-0611	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	18,320.59	386.47
33 14 13 13-0612	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	23,929.89	410.87

33 14 13 13-0613 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow *(33 14 13 13-0596)*

33 14 13 13-0614	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	289.86	37.05
33 14 13 13-0615	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	340.13	44.38
33 14 13 13-0616	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	522.53	65.02
33 14 13 13-0617	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	703.07	77.40
33 14 13 13-0618	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	911.89	85.88
33 14 13 13-0619	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,199.29	100.52
33 14 13 13-0620	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,612.35	113.21
33 14 13 13-0621	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,928.31	128.83
33 14 13 13-0622	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,290.96	180.54
33 14 13 13-0623	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,783.89	225.43
33 14 13 13-0624	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,670.09	300.59
33 14 13 13-0625	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	6,666.13	322.05
33 14 13 13-0626	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	9,175.63	334.74
33 14 13 13-0627	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	13,593.25	386.47
33 14 13 13-0628	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	17,369.93	410.87

33 14 13 13-0629 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow *(33 14 13 13-0596)*

33 14 13 13-0630	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	228.54	37.05
33 14 13 13-0631	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	336.66	44.38
33 14 13 13-0632	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	508.64	65.02
33 14 13 13-0633	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	698.44	77.40
33 14 13 13-0634	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	910.74	85.88
33 14 13 13-0635	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,132.19	100.52
33 14 13 13-0636	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,621.61	113.21
33 14 13 13-0637	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,886.66	128.83
33 14 13 13-0638	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,280.55	180.54

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0639	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,879.92	225.43
33 14 13 13-0640	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,593.73	300.59
33 14 13 13-0641	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	5,945.34	322.05
33 14 13 13-0642	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	8,076.52	334.74
33 14 13 13-0643	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	11,523.45	386.47
33 14 13 13-0644	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	14,723.96	410.87

33 14 13 13-0645 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow *(33 14 13 13-0596)*

33 14 13 13-0646	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	228.54	37.05
33 14 13 13-0647	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	400.29	44.38
33 14 13 13-0648	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	513.27	65.02
33 14 13 13-0649	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	677.62	77.40
33 14 13 13-0650	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	908.42	85.88
33 14 13 13-0651	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,100.95	100.52
33 14 13 13-0652	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,743.09	113.21
33 14 13 13-0653	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,943.35	128.83
33 14 13 13-0654	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,609.12	180.54
33 14 13 13-0655	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,780.42	225.43
33 14 13 13-0656	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,594.89	300.59
33 14 13 13-0657	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	6,021.70	322.05
33 14 13 13-0658	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,857.85	334.74
33 14 13 13-0659	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	11,211.07	386.47
33 14 13 13-0660	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	14,640.66	410.87

33 14 13 13-0661 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow *(33 14 13 13-0596)*

33 14 13 13-0662	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	266.72	37.05
33 14 13 13-0663	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	388.72	44.38
33 14 13 13-0664	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	604.67	65.02
33 14 13 13-0665	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	817.61	77.40
33 14 13 13-0666	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,117.83	85.88
33 14 13 13-0667	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,400.60	100.52
33 14 13 13-0668	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,492.80	113.21
33 14 13 13-0669	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,873.16	128.83
33 14 13 13-0670	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,438.28	180.54
33 14 13 13-0671	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,122.11	225.43
33 14 13 13-0672	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,559.41	300.59

33 14 13 13-0673 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow *(33 14 13 13-0596)*

33 14 13 13-0674	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	266.72	37.05
33 14 13 13-0675	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	344.75	44.38
33 14 13 13-0676	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	541.04	65.02
33 14 13 13-0677	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	759.76	77.40
33 14 13 13-0678	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,000.99	85.88
33 14 13 13-0679	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,298.79	100.52
33 14 13 13-0680	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,723.41	113.21
33 14 13 13-0681	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,068.30	128.83
33 14 13 13-0682	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,848.23	180.54
33 14 13 13-0683	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,050.76	225.43
33 14 13 13-0684	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,242.79	300.59

33 14 13 13-0685 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee *(33 14 13 13-0596)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0686	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	376.93	55.59
33 14 13 13-0687	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	411.97	62.67
33 14 13 13-0688	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	434.60	65.02
33 14 13 13-0689	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	615.43	82.43
33 14 13 13-0690	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	665.70	85.66
33 14 13 13-0691	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	704.32	95.98
33 14 13 13-0692	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	814.79	99.08
33 14 13 13-0693	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	882.34	109.40
33 14 13 13-0694	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	969.03	116.62
33 14 13 13-0695	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,083.45	106.38
33 14 13 13-0696	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,085.35	116.13
33 14 13 13-0697	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,174.96	122.97
33 14 13 13-0698	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,266.52	128.83
33 14 13 13-0699	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,300.81	119.06
33 14 13 13-0700	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,315.44	128.83
33 14 13 13-0701	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,421.23	135.65
33 14 13 13-0702	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,633.12	141.51
33 14 13 13-0703	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,639.42	148.34
33 14 13 13-0704	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,851.01	150.29
33 14 13 13-0705	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,000.78	157.12
33 14 13 13-0706	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,418.61	162.98
33 14 13 13-0707	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,552.16	169.81
33 14 13 13-0708	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,372.78	180.54
33 14 13 13-0709	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,214.54	180.54
33 14 13 13-0710	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,333.15	186.40
33 14 13 13-0711	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,788.01	193.23
33 14 13 13-0712	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,621.91	199.09
33 14 13 13-0713	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,402.81	209.82
33 14 13 13-0714	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,091.16	225.43
33 14 13 13-0715	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	2,905.42	231.29
33 14 13 13-0716	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,062.13	237.15
33 14 13 13-0717	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,260.14	243.00
33 14 13 13-0718	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,443.45	249.84
33 14 13 13-0719	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,539.42	260.57
33 14 13 13-0720	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,780.81	275.21
33 14 13 13-0721	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,218.19	300.59
33 14 13 13-0722	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,363.79	330.84
33 14 13 13-0723	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,420.99	337.67
33 14 13 13-0724	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,749.75	343.52
33 14 13 13-0725	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,930.74	350.36
33 14 13 13-0726	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,972.35	361.09
33 14 13 13-0727	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	3,929.11	375.73
33 14 13 13-0728	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,994.72	401.11
33 14 13 13-0729	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,297.76	450.88
33 14 13 13-0730	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,093.59	430.38
33 14 13 13-0731	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,133.43	438.19
33 14 13 13-0732	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,207.65	443.06
33 14 13 13-0733	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,316.90	449.90
33 14 13 13-0734	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	4,891.86	460.64
33 14 13 13-0735	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	5,100.86	475.27
33 14 13 13-0736	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,247.46	500.65
33 14 13 13-0737	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,462.17	551.40
33 14 13 13-0738	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,092.39	601.17
33 14 13 13-0739	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	7,074.99	501.63
33 14 13 13-0740	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	6,746.93	508.45
33 14 13 13-0741	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	7,123.11	514.31
33 14 13 13-0742	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	7,500.77	521.14
33 14 13 13-0743	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,037.57	531.88
33 14 13 13-0744	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,617.94	707.54
33 14 13 13-0745	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,589.07	571.89
33 14 13 13-0746	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,596.70	621.66
33 14 13 13-0747	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,965.06	671.43
33 14 13 13-0748	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	10,668.64	707.54
33 14 13 13-0749	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	7,318.20	564.08
33 14 13 13-0750	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,167.58	569.94
33 14 13 13-0751	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,627.40	576.77
33 14 13 13-0752	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	8,954.78	587.51
33 14 13 13-0753	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	9,285.24	602.14
33 14 13 13-0754	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	9,920.46	627.52
33 14 13 13-0755	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	10,594.50	677.29
33 14 13 13-0756	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	11,731.08	727.06
33 14 13 13-0757	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	13,228.73	790.50
33 14 13 13-0758	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	15,212.20	790.50
33 14 13 13-0759	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	17,222.08	608.00
33 14 13 13-0760	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	17,567.96	617.76
33 14 13 13-0761	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	19,305.29	633.38
33 14 13 13-0762	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	21,983.71	658.75
33 14 13 13-0763	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	22,059.59	708.52
33 14 13 13-0764	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	18,305.71	758.29
33 14 13 13-0765	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	18,640.61	794.40
33 14 13 13-0766	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	23,039.81	821.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0767	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	24,275.84	837.34
33 14 13 13-0768	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	20,066.83	656.79
33 14 13 13-0769	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	20,426.60	667.53
33 14 13 13-0770	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	20,937.55	683.15
33 14 13 13-0771	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	21,460.54	707.54
33 14 13 13-0772	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	22,024.67	758.29
33 14 13 13-0773	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	22,165.11	808.06
33 14 13 13-0774	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	23,791.18	843.19
33 14 13 13-0775	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	19,197.35	871.50
33 14 13 13-0776	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	24,006.05	887.12
33 14 13 13-0777	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	31,893.53	911.51

33 14 13 13-0778 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) *(33 14 13 13-0596)*

33 14 13 13-0779	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	422.70	62.12
33 14 13 13-0780	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	463.19	62.12
33 14 13 13-0781	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	541.04	65.02
33 14 13 13-0782	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	600.39	82.43
33 14 13 13-0783	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	668.02	85.66
33 14 13 13-0784	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	814.24	95.98
33 14 13 13-0785	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,061.22	99.08
33 14 13 13-0786	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	984.15	109.40
33 14 13 13-0787	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,104.39	116.62
33 14 13 13-0788	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,545.07	106.38
33 14 13 13-0789	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,610.61	116.13
33 14 13 13-0790	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,799.72	122.97
33 14 13 13-0791	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,963.01	128.83
33 14 13 13-0792	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,882.76	119.06
33 14 13 13-0793	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,133.41	128.83
33 14 13 13-0794	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,520.35	135.65
33 14 13 13-0795	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,523.98	141.51
33 14 13 13-0796	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,333.60	148.34
33 14 13 13-0797	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,767.33	150.29
33 14 13 13-0798	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,177.41	157.12
33 14 13 13-0799	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,176.04	162.98
33 14 13 13-0800	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,477.34	169.81
33 14 13 13-0801	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,366.22	180.54
33 14 13 13-0802	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,886.82	180.54
33 14 13 13-0803	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,185.83	186.40
33 14 13 13-0804	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,774.90	193.23
33 14 13 13-0805	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,894.57	199.09
33 14 13 13-0806	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,815.45	209.82
33 14 13 13-0807	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,560.50	225.43
33 14 13 13-0808	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,085.52	231.29
33 14 13 13-0809	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,404.20	237.15
33 14 13 13-0810	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,712.13	243.00
33 14 13 13-0811	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,045.84	249.84
33 14 13 13-0812	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,099.00	260.57
33 14 13 13-0813	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,159.91	275.21
33 14 13 13-0814	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,687.92	300.59
33 14 13 13-0815	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,823.87	330.84
33 14 13 13-0816	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,929.67	337.67
33 14 13 13-0817	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,425.02	343.52
33 14 13 13-0818	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,916.08	350.36
33 14 13 13-0819	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,972.73	361.09
33 14 13 13-0820	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,039.41	375.73
33 14 13 13-0821	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,010.15	401.11
33 14 13 13-0822	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,614.00	450.88
33 14 13 13-0823	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,853.33	430.38
33 14 13 13-0824	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,929.03	437.22
33 14 13 13-0825	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,618.75	443.06
33 14 13 13-0826	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,932.78	449.90
33 14 13 13-0827	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,026.06	460.64
33 14 13 13-0828	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,931.56	475.27
33 14 13 13-0829	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,005.26	500.65
33 14 13 13-0830	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,992.83	551.40
33 14 13 13-0831	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,711.37	601.17
33 14 13 13-0832	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,232.72	501.63
33 14 13 13-0833	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,734.96	508.45
33 14 13 13-0834	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,541.54	514.31
33 14 13 13-0835	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	15,349.59	521.14
33 14 13 13-0836	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,494.94	531.88
33 14 13 13-0837	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	17,726.69	546.52
33 14 13 13-0838	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,169.85	571.89
33 14 13 13-0839	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,811.50	621.66
33 14 13 13-0840	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	19,702.80	671.43
33 14 13 13-0841	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	21,362.42	707.54
33 14 13 13-0842	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	23,515.16	576.77
33 14 13 13-0843	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	24,441.84	587.51
33 14 13 13-0844	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,363.51	602.14

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0845	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,142.97	627.52
33 14 13 13-0846	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	28,967.02	677.29
33 14 13 13-0847	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	32,141.01	727.06
33 14 13 13-0848	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	36,025.47	763.17
33 14 13 13-0849	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	43,040.56	790.50
33 14 13 13-0850	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	37,868.29	708.52
33 14 13 13-0851	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	38,801.26	758.29
33 14 13 13-0852	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	41,453.55	794.40
33 14 13 13-0853	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	47,438.94	821.72
33 14 13 13-0854	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	56,004.31	837.34
33 14 13 13-0855	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	37,334.72	758.29
33 14 13 13-0856	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	42,304.31	808.06
33 14 13 13-0857	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	45,094.29	843.19
33 14 13 13-0858	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	51,439.51	871.50
33 14 13 13-0859	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	67,357.34	887.12
33 14 13 13-0860	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	73,974.48	911.51

33 14 13 13-0861 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee *(33 14 13 13-0596)*

33 14 13 13-0862	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	747.13	95.98
33 14 13 13-0863	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	926.30	109.40
33 14 13 13-0864	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,316.74	116.13
33 14 13 13-0865	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,514.43	128.83
33 14 13 13-0866	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,997.95	150.29
33 14 13 13-0867	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,433.29	180.54
33 14 13 13-0868	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,876.50	231.29
33 14 13 13-0869	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,871.69	330.84
33 14 13 13-0870	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,523.98	430.38
33 14 13 13-0871	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	8,161.37	501.63

33 14 13 13-0872 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross *(33 14 13 13-0596)*

33 14 13 13-0873	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	423.51	74.11
33 14 13 13-0874	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	525.98	80.65
33 14 13 13-0875	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	652.59	81.54
33 14 13 13-0876	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	695.77	101.08
33 14 13 13-0877	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	811.87	109.40
33 14 13 13-0878	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	900.60	136.23
33 14 13 13-0879	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	863.25	119.72
33 14 13 13-0880	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,019.06	146.56
33 14 13 13-0881	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,011.42	156.87
33 14 13 13-0882	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,010.14	124.91
33 14 13 13-0883	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,134.81	150.29
33 14 13 13-0884	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,343.82	160.05
33 14 13 13-0885	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,455.44	171.76
33 14 13 13-0886	EA	12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,292.48	135.65
33 14 13 13-0887	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,496.97	161.03
33 14 13 13-0888	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,623.84	170.78
33 14 13 13-0889	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,890.50	182.50
33 14 13 13-0890	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,155.49	193.23
33 14 13 13-0891	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,223.63	176.64
33 14 13 13-0892	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,631.65	186.40
33 14 13 13-0893	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,696.99	199.09
33 14 13 13-0894	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,846.27	208.85
33 14 13 13-0895	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,152.96	225.43
33 14 13 13-0896	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,489.16	200.06
33 14 13 13-0897	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,843.95	208.85
33 14 13 13-0898	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,422.98	221.53
33 14 13 13-0899	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,824.49	232.27
33 14 13 13-0900	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,639.09	247.88
33 14 13 13-0901	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,844.45	270.33
33 14 13 13-0902	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,275.16	236.17
33 14 13 13-0903	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,522.38	245.93
33 14 13 13-0904	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,734.64	257.64
33 14 13 13-0905	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,140.77	268.38
33 14 13 13-0906	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,016.68	283.99
33 14 13 13-0907	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,401.38	306.44
33 14 13 13-0908	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,689.13	343.52
33 14 13 13-0909	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,375.16	296.68

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0910	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,624.66	305.47
33 14 13 13-0911	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,796.43	318.15
33 14 13 13-0912	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,199.11	328.89
33 14 13 13-0913	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,302.16	344.50
33 14 13 13-0914	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,655.24	366.94
33 14 13 13-0915	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,942.98	403.05
33 14 13 13-0916	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,577.87	463.56
33 14 13 13-0917	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,350.48	370.85
33 14 13 13-0918	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,521.61	380.61
33 14 13 13-0919	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,809.95	392.32
33 14 13 13-0920	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,058.74	403.05
33 14 13 13-0921	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,198.81	418.67
33 14 13 13-0922	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,506.00	441.12
33 14 13 13-0923	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,315.92	478.20
33 14 13 13-0924	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,910.31	537.74
33 14 13 13-0925	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,110.47	611.90
33 14 13 13-0926	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,388.23	492.85
33 14 13 13-0927	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,614.38	504.55
33 14 13 13-0928	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,836.57	515.29
33 14 13 13-0929	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,099.28	530.90
33 14 13 13-0930	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,400.68	554.32
33 14 13 13-0931	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,752.06	590.43
33 14 13 13-0932	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,197.19	649.96
33 14 13 13-0933	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,990.11	725.11
33 14 13 13-0934	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,535.77	837.34
33 14 13 13-0935	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	15,928.48	533.82
33 14 13 13-0936	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,152.32	545.54
33 14 13 13-0937	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,345.59	556.28
33 14 13 13-0938	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,575.91	572.87
33 14 13 13-0939	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,846.06	595.31
33 14 13 13-0940	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,166.21	631.42
33 14 13 13-0941	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,582.42	691.93
33 14 13 13-0942	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,314.02	766.09
33 14 13 13-0943	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,703.10	878.33
33 14 13 13-0944	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,152.73	920.29
33 14 13 13-0945	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,410.06	580.67
33 14 13 13-0946	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,856.73	596.29
33 14 13 13-0947	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,118.79	619.71
33 14 13 13-0948	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,482.90	655.82
33 14 13 13-0949	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	23,138.60	716.32
33 14 13 13-0950	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,515.78	790.50
33 14 13 13-0951	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,794.19	902.72
33 14 13 13-0952	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	38,968.07	943.71
33 14 13 13-0953	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,766.05	968.12
33 14 13 13-0954	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,972.69	676.31
33 14 13 13-0955	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,166.00	691.93
33 14 13 13-0956	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,424.59	714.38
33 14 13 13-0957	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,705.39	750.49
33 14 13 13-0958	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,079.96	810.99
33 14 13 13-0959	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,727.10	885.16
33 14 13 13-0960	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	32,505.70	997.39
33 14 13 13-0961	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	39,872.40	1,039.35
33 14 13 13-0962	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	51,330.24	1,063.76
33 14 13 13-0963	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	54,660.72	1,158.42

33 14 13 13-0964 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers *(33 14 13 13-0596)*

33 14 13 13-0965	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	298.28	40.33
33 14 13 13-0966	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	415.57	50.54
33 14 13 13-0967	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	456.40	53.67
33 14 13 13-0968	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	596.39	60.90
33 14 13 13-0969	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	622.19	71.21
33 14 13 13-0970	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	726.84	63.43
33 14 13 13-0971	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	762.30	73.20
33 14 13 13-0972	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	794.04	80.02
33 14 13 13-0973	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	839.56	70.27
33 14 13 13-0974	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	929.41	80.02
33 14 13 13-0975	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	946.11	85.88
33 14 13 13-0976	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	989.09	92.72

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0977	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,445.35	90.76
33 14 13 13-0978	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,455.12	96.62
33 14 13 13-0979	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,271.34	103.45
33 14 13 13-0980	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,298.45	109.30
33 14 13 13-0981	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,731.86	105.40
33 14 13 13-0982	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,682.63	112.23
33 14 13 13-0983	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,583.30	118.09
33 14 13 13-0984	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,566.45	123.94
33 14 13 13-0985	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,770.03	134.67
33 14 13 13-0986	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,888.61	136.63
33 14 13 13-0987	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,127.11	143.46
33 14 13 13-0988	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,035.06	149.31
33 14 13 13-0989	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,428.39	160.05
33 14 13 13-0990	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,135.26	175.66
33 14 13 13-0991	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,516.36	187.38
33 14 13 13-0992	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,537.36	193.23
33 14 13 13-0993	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,311.10	200.06
33 14 13 13-0994	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,312.21	210.80
33 14 13 13-0995	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,260.90	225.43
33 14 13 13-0996	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,670.50	250.81
33 14 13 13-0997	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,173.49	249.84
33 14 13 13-0998	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,222.04	260.57
33 14 13 13-0999	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,281.78	275.21
33 14 13 13-1000	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,239.02	300.59
33 14 13 13-1001	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,737.21	350.36
33 14 13 13-1002	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,753.59	310.35
33 14 13 13-1003	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,001.23	335.72
33 14 13 13-1004	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,797.13	386.47
33 14 13 13-1005	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,940.28	436.24
33 14 13 13-1006	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,589.71	413.79
33 14 13 13-1007	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,074.15	463.56
33 14 13 13-1008	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,553.67	499.67
33 14 13 13-1009	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	11,165.53	354.26
33 14 13 13-1010	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	11,106.57	379.63
33 14 13 13-1011	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	11,146.58	429.40
33 14 13 13-1012	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	11,591.31	479.18
33 14 13 13-1013	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,502.39	515.29
33 14 13 13-1014	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,944.79	542.62
33 14 13 13-1015	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	14,054.92	378.66
33 14 13 13-1016	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	13,609.55	404.03
33 14 13 13-1017	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	12,942.66	453.80
33 14 13 13-1018	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	13,329.53	504.55

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1019	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,957.54	539.68
33 14 13 13-1020	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	13,824.54	567.01
33 14 13 13-1021	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,194.78	582.63

33 14 13 13-1022 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps *(33 14 13 13-0596)*

33 14 13 13-1023	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	287.51	85.15
33 14 13 13-1024	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	345.75	100.11
33 14 13 13-1025	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	499.29	124.88
33 14 13 13-1026	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	661.68	142.42
33 14 13 13-1027	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	886.44	214.71
33 14 13 13-1028	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,106.90	234.22
33 14 13 13-1029	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,255.78	257.64
33 14 13 13-1030	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,520.14	285.94
33 14 13 13-1031	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,776.81	322.05
33 14 13 13-1032	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,136.92	367.92
33 14 13 13-1033	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,727.35	429.40
33 14 13 13-1034	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	4,870.59	515.29
33 14 13 13-1035	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	7,924.62	644.11
33 14 13 13-1036	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	11,375.49	772.93
33 14 13 13-1037	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	13,526.83	858.81

33 14 13 13-1038 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug *(33 14 13 13-0596)*

33 14 13 13-1039	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	288.67	85.15
33 14 13 13-1040	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	357.32	100.11
33 14 13 13-1041	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	529.37	124.88
33 14 13 13-1042	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	691.76	142.42
33 14 13 13-1043	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,058.82	214.71
33 14 13 13-1044	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,146.24	234.22
33 14 13 13-1045	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,506.84	257.64
33 14 13 13-1046	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,810.53	285.94
33 14 13 13-1047	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	2,148.20	322.05
33 14 13 13-1048	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	2,639.04	367.92
33 14 13 13-1049	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	3,442.35	429.40
33 14 13 13-1050	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	5,858.64	515.29
33 14 13 13-1051	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	8,538.97	644.11
33 14 13 13-1052	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	11,453.00	772.93
33 14 13 13-1053	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	15,170.87	858.81

33 14 13 13-1054 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters *(33 14 13 13-0596)*

33 14 13 13-1055	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	396.24	129.43
33 14 13 13-1056	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	517.46	149.65
33 14 13 13-1057	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	706.11	187.84
33 14 13 13-1058	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	917.89	213.65
33 14 13 13-1059	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,353.37	322.05
33 14 13 13-1060	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,605.98	351.34
33 14 13 13-1061	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,078.03	386.47
33 14 13 13-1062	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,355.97	429.40
33 14 13 13-1063	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,066.69	483.08
33 14 13 13-1064	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,554.20	552.37
33 14 13 13-1065	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,295.24	644.11
33 14 13 13-1066	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	6,684.01	772.93
33 14 13 13-1067	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	9,066.26	966.16
33 14 13 13-1068	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	12,271.92	1,103.77
33 14 13 13-1069	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	15,226.80	1,288.21

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1070		**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves** *(33 14 13 13-0596)*		
33 14 13 13-1071	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	410.13	129.43
33 14 13 13-1072	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	500.10	149.65
33 14 13 13-1073	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	725.78	187.84
33 14 13 13-1074	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	971.11	213.65
33 14 13 13-1075	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,279.32	322.05
33 14 13 13-1076	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,536.56	351.34
33 14 13 13-1077	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,929.94	386.47
33 14 13 13-1078	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,277.30	429.40
33 14 13 13-1079	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,710.34	483.08
33 14 13 13-1080	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,152.73	552.37
33 14 13 13-1081	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,927.32	644.11
33 14 13 13-1082	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	6,493.12	772.93
33 14 13 13-1083	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	8,428.78	966.16
33 14 13 13-1084	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	10,925.62	1,102.79
33 14 13 13-1085	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	16,123.44	1,288.21
33 14 13 13-1086		**Push-On Joint Ductile Iron Piping** *(33 14 13 13-0001)*		
33 14 13 13-1087		**Push-On Joint Ductile Iron Pipe** *(33 14 13 13-1086)*		
		Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1088	LF	4", Class 50, Push-On Joint Ductile Iron Pipe	25.56	8.52
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*8.86*	
		For Cement Mortar Lining (CML), Add	*1.27*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*6.83*	
		For Fusion Bonded Epoxy Lining (206N), Add	*2.28*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*0.95*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-1.28*	
		For Class 51, Add	*1.25*	
		For Class 52, Add	*2.79*	
		For Class 53, Add	*7.26*	
		For Class 54, Add	*10.34*	
		For Class 55, Add	*11.92*	
		For Class 56, Add	*13.47*	
33 14 13 13-1089	LF	6", Class 50, Push-On Joint Ductile Iron Pipe	28.03	9.39
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*9.72*	
		For Cement Mortar Lining (CML), Add	*1.39*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*7.50*	
		For Fusion Bonded Epoxy Lining (206N), Add	*2.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1.04*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-1.40*	
		For Class 51, Add	*1.38*	
		For Class 52, Add	*3.06*	
		For Class 53, Add	*7.97*	
		For Class 54, Add	*11.35*	
		For Class 55, Add	*13.09*	
		For Class 56, Add	*14.79*	
33 14 13 13-1090	LF	8", Class 50, Push-On Joint Ductile Iron Pipe	34.46	10.32
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*13.29*	
		For Cement Mortar Lining (CML), Add	*1.90*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*10.25*	
		For Fusion Bonded Epoxy Lining (206N), Add	*3.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*1.42*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-1.72*	
		For Class 51, Add	*1.83*	
		For Class 52, Add	*4.09*	
		For Class 53, Add	*10.75*	
		For Class 54, Add	*15.32*	
		For Class 55, Add	*17.64*	
		For Class 56, Add	*19.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1091	LF	10", Class 50, Push-On Joint Ductile Iron Pipe	48.74	14.54
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*16.07*	
		For Cement Mortar Lining (CML), Add	*2.68*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*13.39*	
		For Fusion Bonded Epoxy Lining (206N), Add	*4.82*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2.01*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-2.44*	
		For Class 51, Add	*2.59*	
		For Class 52, Add	*5.77*	
		For Class 53, Add	*15.17*	
		For Class 54, Add	*21.62*	
		For Class 55, Add	*24.90*	
		For Class 56, Add	*28.12*	
33 14 13 13-1092	LF	12", Class 50, Push-On Joint Ductile Iron Pipe	56.32	16.10
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*15.96*	
		For Cement Mortar Lining (CML), Add	*3.19*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*12.77*	
		For Fusion Bonded Epoxy Lining (206N), Add	*5.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*2.39*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-2.82*	
		For Class 51, Add	*3.06*	
		For Class 52, Add	*6.84*	
		For Class 53, Add	*18.02*	
		For Class 54, Add	*25.68*	
		For Class 55, Add	*29.57*	
		For Class 56, Add	*33.38*	
33 14 13 13-1093	LF	14", Class 50, Push-On Joint Ductile Iron Pipe	68.12	18.15
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*17.90*	
		For Cement Mortar Lining (CML), Add	*4.07*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*13.83*	
		For Fusion Bonded Epoxy Lining (206N), Add	*7.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3.05*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-3.41*	
		For Class 51, Add	*3.85*	
		For Class 52, Add	*8.62*	
		For Class 53, Add	*22.83*	
		For Class 54, Add	*32.56*	
		For Class 55, Add	*37.46*	
		For Class 56, Add	*42.28*	
33 14 13 13-1094	LF	16", Class 50, Push-On Joint Ductile Iron Pipe	80.46	20.69
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*20.14*	
		For Cement Mortar Lining (CML), Add	*4.91*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*15.23*	
		For Fusion Bonded Epoxy Lining (206N), Add	*8.84*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*3.68*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-4.02*	
		For Class 51, Add	*4.63*	
		For Class 52, Add	*10.37*	
		For Class 53, Add	*27.50*	
		For Class 54, Add	*39.22*	
		For Class 55, Add	*45.12*	
		For Class 56, Add	*50.91*	
33 14 13 13-1095	LF	18", Class 50, Push-On Joint Ductile Iron Pipe	93.66	24.20
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*23.39*	
		For Cement Mortar Lining (CML), Add	*5.71*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*17.69*	
		For Fusion Bonded Epoxy Lining (206N), Add	*10.27*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.28*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-4.68*	
		For Class 51, Add	*5.38*	
		For Class 52, Add	*12.05*	
		For Class 53, Add	*31.95*	
		For Class 54, Add	*45.56*	
		For Class 55, Add	*52.41*	
		For Class 56, Add	*59.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1096	LF	20", Class 50, Push-On Joint Ductile Iron Pipe	108.45	28.98
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*24.53*	
		For Cement Mortar Lining (CML), Add	*6.45*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*18.07*	
		For Fusion Bonded Epoxy Lining (206N), Add	*11.62*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*4.84*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-5.42*	
		For Class 51, Add	*6.12*	
		For Class 52, Add	*13.69*	
		For Class 53, Add	*36.23*	
		For Class 54, Add	*51.66*	
		For Class 55, Add	*59.44*	
		For Class 56, Add	*67.09*	
33 14 13 13-1097	LF	24", Class 50, Push-On Joint Ductile Iron Pipe	137.06	36.21
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*25.46*	
		For Cement Mortar Lining (CML), Add	*8.21*	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	*17.25*	
		For Fusion Bonded Epoxy Lining (206N), Add	*14.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*6.16*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-6.85*	
		For Class 51, Add	*7.77*	
		For Class 52, Add	*17.40*	
		For Class 53, Add	*46.07*	
		For Class 54, Add	*65.68*	
		For Class 55, Add	*75.58*	
		For Class 56, Add	*85.30*	
33 14 13 13-1098	LF	30", Class 50, Push-On Joint Ductile Iron Pipe	160.76	38.64
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*31.69*	
		For Cement Mortar Lining (CML), Add	*10.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*18.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.67*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-8.04*	
		For Class 51, Add	*9.55*	
		For Class 52, Add	*21.40*	
		For Class 53, Add	*56.97*	
		For Class 54, Add	*81.26*	
		For Class 55, Add	*93.45*	
		For Class 56, Add	*105.43*	
33 14 13 13-1099	LF	36", Class 50, Push-On Joint Ductile Iron Pipe	196.83	41.09
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*41.71*	
		For Cement Mortar Lining (CML), Add	*13.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*24.22*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.09*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-9.84*	
		For Class 51, Add	*12.39*	
		For Class 52, Add	*27.81*	
		For Class 53, Add	*74.45*	
		For Class 54, Add	*106.24*	
		For Class 55, Add	*122.10*	
		For Class 56, Add	*137.68*	
33 14 13 13-1100	LF	42", Class 50, Push-On Joint Ductile Iron Pipe	237.46	43.52
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*53.19*	
		For Cement Mortar Lining (CML), Add	*17.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*30.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*12.87*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-11.87*	
		For Class 51, Add	*15.63*	
		For Class 52, Add	*35.12*	
		For Class 53, Add	*94.42*	
		For Class 54, Add	*134.79*	
		For Class 55, Add	*154.85*	
		For Class 56, Add	*174.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1101	LF	48", Class 50, Push-On Joint Ductile Iron Pipe	283.48	45.87
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*66.31*	
		For Cement Mortar Lining (CML), Add	*21.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*38.50*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*16.04*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-14.17*	
		For Class 51, Add	*19.33*	
		For Class 52, Add	*43.47*	
		For Class 53, Add	*117.24*	
		For Class 54, Add	*167.41*	
		For Class 55, Add	*192.26*	
		For Class 56, Add	*216.66*	
33 14 13 13-1102	LF	54", Class 50, Push-On Joint Ductile Iron Pipe	355.75	48.30
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	*87.59*	
		For Cement Mortar Lining (CML), Add	*28.26*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*50.86*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*21.19*	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	*-17.79*	
		For Class 51, Add	*25.30*	
		For Class 52, Add	*56.96*	
		For Class 53, Add	*154.16*	
		For Class 54, Add	*220.21*	
		For Class 55, Add	*252.80*	
		For Class 56, Add	*284.79*	

33 14 13 13-1103 Push-On Joint Ductile Iron 90 Degree Elbow *(33 14 13 13-1086)*

33 14 13 13-1104	EA	4" 90 Degree Elbow, Push-On Joint Ductile Iron	186.16	33.24
		For Cement Mortar Lining (CML), Add	*13.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*24.44*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*10.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1105	EA	6" 90 Degree Elbow, Push-On Joint Ductile Iron	270.06	49.02
		For Cement Mortar Lining (CML), Add	*19.58*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*35.24*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*14.68*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1106	EA	8" 90 Degree Elbow, Push-On Joint Ductile Iron	359.76	58.21
		For Cement Mortar Lining (CML), Add	*27.15*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*48.87*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*20.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1107	EA	10" 90 Degree Elbow, Push-On Joint Ductile Iron	543.30	64.21
		For Cement Mortar Lining (CML), Add	*41.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*73.89*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.79*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108	EA	12" 90 Degree Elbow, Push-On Joint Ductile Iron	698.78	75.34
		For Cement Mortar Lining (CML), Add	*54.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*97.75*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*40.73*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1109	EA	14" 90 Degree Elbow, Push-On Joint Ductile Iron	1,365.77	84.51
		For Cement Mortar Lining (CML), Add	*119.10*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*214.39*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*89.33*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110	EA	16" 90 Degree Elbow, Push-On Joint Ductile Iron	1,544.23	96.62
		For Cement Mortar Lining (CML), Add	*134.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*242.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*100.85*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1111	EA	18" 90 Degree Elbow, Push-On Joint Ductile Iron	2,401.37	135.26
		For Cement Mortar Lining (CML), Add	*212.19*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*381.94*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*159.14*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1112	EA	20" 90 Degree Elbow, Push-On Joint Ductile Iron	2,704.54	170.49
		For Cement Mortar Lining (CML), Add	*236.36*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*425.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*177.27*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1113	EA	24" 90 Degree Elbow, Push-On Joint Ductile Iron	3,377.09	213.14
		For Cement Mortar Lining (CML), Add	*295.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*531.16*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*221.32*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-1114 Push-On Joint Ductile Iron 45 Degree Elbow *(33 14 13 13-1086)*

33 14 13 13-1115	EA	4" 45 Degree Elbow, Push-On Joint Ductile Iron	155.28	33.24
		For Cement Mortar Lining (CML), Add	*10.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*18.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*7.87*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1116	EA	6" 45 Degree Elbow, Push-On Joint Ductile Iron	228.54	49.02
		For Cement Mortar Lining (CML), Add	*15.42*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*27.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.57*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1117	EA	8" 45 Degree Elbow, Push-On Joint Ductile Iron	315.09	58.21
		For Cement Mortar Lining (CML), Add	*22.69*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*40.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*17.01*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1118	EA	10" 45 Degree Elbow, Push-On Joint Ductile Iron	481.62	64.21
		For Cement Mortar Lining (CML), Add	*34.88*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*62.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*26.16*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1119	EA	12" 45 Degree Elbow, Push-On Joint Ductile Iron	620.19	75.34
		For Cement Mortar Lining (CML), Add	*46.45*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*83.61*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*34.84*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1120	EA	14" 45 Degree Elbow, Push-On Joint Ductile Iron	875.04	84.51
		For Cement Mortar Lining (CML), Add	*70.03*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*126.05*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*52.52*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1121	EA	16" 45 Degree Elbow, Push-On Joint Ductile Iron	1,287.27	96.62
		For Cement Mortar Lining (CML), Add	*108.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*195.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*81.57*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1122	EA	18" 45 Degree Elbow, Push-On Joint Ductile Iron	1,487.25	135.26
		For Cement Mortar Lining (CML), Add	*120.78*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*217.40*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*90.58*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1123	EA	20" 45 Degree Elbow, Push-On Joint Ductile Iron	2,078.68	170.49
		For Cement Mortar Lining (CML), Add	*173.77*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*312.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*130.33*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1124	EA	24" 45 Degree Elbow, Push-On Joint Ductile Iron	2,579.96	213.14
		For Cement Mortar Lining (CML), Add	*215.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*387.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*161.53*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-1125 Push-On Joint Ductile Iron Tee *(33 14 13 13-1086)*

33 14 13 13-1126	EA	4" Tee, Push-On Joint Ductile Iron	284.28	49.02
		For Cement Mortar Lining (CML), Add	*21.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*37.79*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*15.75*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1127	EA	6" Tee, Push-On Joint Ductile Iron	396.51	72.03
		For Cement Mortar Lining (CML), Add	*28.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*51.72*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*21.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1128	EA	8" Tee, Push-On Joint Ductile Iron	539.73	87.32
		For Cement Mortar Lining (CML), Add	*40.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*73.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*30.55*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1129	EA	10" Tee, Push-On Joint Ductile Iron	787.32	97.60
		For Cement Mortar Lining (CML), Add	*64.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*115.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.07*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1130	EA	12" Tee, Push-On Joint Ductile Iron	979.05	112.53
		For Cement Mortar Lining (CML), Add	*80.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*145.49*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*60.62*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1131	EA	14" Tee, Push-On Joint Ductile Iron	1,568.35	135.26
		For Cement Mortar Lining (CML), Add	*136.34*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*245.41*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*102.26*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1132	EA	16" Tee, Push-On Joint Ductile Iron	2,262.12	169.13
		For Cement Mortar Lining (CML), Add	*200.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*361.07*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*150.45*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1133	EA	18" Tee, Push-On Joint Ductile Iron	2,845.64	225.63
		For Cement Mortar Lining (CML), Add	*250.38*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*450.68*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*187.78*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134	EA	20" Tee, Push-On Joint Ductile Iron	3,355.06	275.31
		For Cement Mortar Lining (CML), Add	*293.80*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*528.83*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*220.35*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1135	EA	24" Tee, Push-On Joint Ductile Iron	4,391.31	344.11
		For Cement Mortar Lining (CML), Add	*387.00*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*696.59*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*290.25*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-1136 Flanged End x Push-On Joint Ductile Iron Adapters *(33 14 13 13-1086)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1137	EA	4" Flanged End x Push-On Joint Adapter, Ductile Iron	322.80	115.29
		For Cement Mortar Lining (CML), Add	*14.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*26.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*11.11*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1138	EA	6" Flanged End x Push-On Joint Adapter, Ductile Iron	395.82	142.73
		For Cement Mortar Lining (CML), Add	*17.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*32.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*13.47*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1139	EA	8" Flanged End x Push-On Joint Adapter, Ductile Iron	510.42	166.48
		For Cement Mortar Lining (CML), Add	*25.81*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*46.46*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*19.36*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140	EA	10" Flanged End x Push-On Joint Adapter, Ductile Iron	702.66	241.54
		For Cement Mortar Lining (CML), Add	*33.67*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*60.60*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*25.25*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141	EA	12" Flanged End x Push-On Joint Adapter, Ductile Iron	844.72	276.08
		For Cement Mortar Lining (CML), Add	*42.65*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*76.76*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*31.99*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142	EA	14" Flanged End x Push-On Joint Adapter, Ductile Iron	966.68	297.26
		For Cement Mortar Lining (CML), Add	*51.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*92.93*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*38.72*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143	EA	16" Flanged End x Push-On Joint Adapter, Ductile Iron	1,138.89	322.05
		For Cement Mortar Lining (CML), Add	*65.09*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*117.17*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*48.82*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144	EA	18" Flanged End x Push-On Joint Adapter, Ductile Iron	1,348.71	386.47
		For Cement Mortar Lining (CML), Add	*76.32*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*137.37*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*57.24*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145	EA	20" Flanged End x Push-On Joint Adapter, Ductile Iron	1,559.67	429.40
		For Cement Mortar Lining (CML), Add	*90.91*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*163.63*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*68.18*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1146	EA	24" Flanged End x Push-On Joint Adapter, Ductile Iron	1,940.35	495.48
		For Cement Mortar Lining (CML), Add	*118.96*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*214.14*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*89.22*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1147	EA	30" Flanged End x Push-On Joint Adapter, Ductile Iron	3,035.91	594.53
		For Cement Mortar Lining (CML), Add	*213.51*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*384.31*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*160.13*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1148	EA	36" Flanged End x Push-On Joint Adapter, Ductile Iron	4,172.44	743.16
		For Cement Mortar Lining (CML), Add	*304.64*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*548.35*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*228.48*	
		Note: ANSI/AWWA C151/A21.51		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1149	EA	42" Flanged End x Push-On Joint Adapter, Ductile Iron	5,245.89	858.81
		For Cement Mortar Lining (CML), Add	*394.47*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*710.04*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*295.85*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1150	EA	48" Flanged End x Push-On Joint Adapter, Ductile Iron	6,698.22	1,104.16
		For Cement Mortar Lining (CML), Add	*502.52*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*904.54*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*376.89*	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1151	EA	54" Flanged End x Push-On Joint Adapter, Ductile Iron	8,119.62	1,288.51
		For Cement Mortar Lining (CML), Add	*616.73*	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	*1,110.11*	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	*462.54*	
		Note: ANSI/AWWA C151/A21.51		

33 14 13 13-1152 Push-On Joint Ductile Iron Pipe And Fitting Restraints *(33 14 13 13-1086)*

Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.

33 14 13 13-1153	EA	4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	39.47	17.94
33 14 13 13-1154	EA	6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	52.21	23.41
33 14 13 13-1155	EA	8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	68.10	23.88
33 14 13 13-1156	EA	10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	79.64	25.37
33 14 13 13-1157	EA	12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	94.10	28.17
33 14 13 13-1158	EA	14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	117.58	31.70
33 14 13 13-1159	EA	16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	138.34	36.23
33 14 13 13-1160	EA	18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	155.42	39.25
33 14 13 13-1161	EA	20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	181.65	47.10
33 14 13 13-1162	EA	24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	215.91	48.92
33 14 13 13-1163	EA	30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	274.38	54.35
33 14 13 13-1164	EA	36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	354.42	58.87
33 14 13 13-1165	EA	42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	435.17	64.41
33 14 13 13-1166	EA	48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	512.40	72.46
33 14 13 13-1167	EA	54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	701.66	78.58

33 14 13 13-1168 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) *(33 14 13 13-1086)*

33 14 13 13-1169	EA	4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400)	202.16	65.88
33 14 13 13-1170	EA	6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600)	265.78	80.42
33 14 13 13-1171	EA	8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800)	341.44	98.08
33 14 13 13-1172	EA	10" Bell Restraint Harness, Ductile Iron (MEGALUG® 17100)	510.74	119.64
33 14 13 13-1173	EA	12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200)	633.15	145.90
33 14 13 13-1174	EA	14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400)	1,081.50	178.01
33 14 13 13-1175	EA	16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600)	1,236.61	217.24
33 14 13 13-1176	EA	18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800)	1,406.38	264.97
33 14 13 13-1177	EA	20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000)	1,906.64	323.32
33 14 13 13-1178	EA	24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400)	2,429.42	394.37
33 14 13 13-1179	EA	30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000)	4,165.85	481.23
33 14 13 13-1180	EA	36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600)	5,897.71	587.02
33 14 13 13-1181	EA	42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200)	10,665.44	716.23
33 14 13 13-1182	EA	48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800)	13,790.58	873.74

33 14 13 13-1183 Ductile Iron Pipe Repair *(33 14 13 13-0001)*

See CSI section 33 14 13 13-0002 for mechanical joint fittings.

33 14 13 13-1184 Ductile Iron Pipe Repair *(33 14 13 13-1183)*

Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.

33 14 13 13-1185	EA	30" Diameter Mechanical Ductile Iron Push Joint	2,867.65	
33 14 13 13-1186	EA	36" Diameter Mechanical Ductile Iron Push Joint	3,635.30	
33 14 13 13-1187	EA	42" Diameter Mechanical Ductile Iron Push Joint	4,593.86	
33 14 13 13-1188	EA	48" Diameter Mechanical Ductile Iron Push Joint	5,764.96	
33 14 13 13-1189	EA	54" Diameter Mechanical Ductile Iron Push Joint	8,341.76	

33 14 13 13-1190 WEKO Seals *(33 14 13 13-1183)*

Note: Internal joint seal.

33 14 13 13-1191	EA	16" WEKO Internal Joint Seal	1,582.00	177.41
		For Extra Wide Seals, Add	*83.44*	
33 14 13 13-1192	EA	18" WEKO Internal Joint Seal	1,685.28	187.33
		For Extra Wide Seals, Add	*84.20*	
33 14 13 13-1193	EA	20" WEKO Internal Joint Seal	1,788.39	197.25
		For Extra Wide Seals, Add	*84.94*	
33 14 13 13-1194	EA	24" WEKO Internal Joint Seal	1,895.06	213.03
		For Extra Wide Seals, Add	*86.14*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1195	EA	30" WEKO Internal Joint Seal	1,956.99	228.81
		For Extra Wide Seals, Add	*87.34*	
33 14 13 13-1196	EA	36" WEKO Internal Joint Seal	2,053.96	248.54
		For Extra Wide Seals, Add	*88.83*	
33 14 13 13-1197	EA	42" WEKO Internal Joint Seal	2,190.47	272.21
		For Extra Wide Seals, Add	*90.62*	
33 14 13 13-1198	EA	48" WEKO Internal Joint Seal	2,365.73	291.93
		For Extra Wide Seals, Add	*92.12*	
33 14 13 13-1199	EA	54" WEKO Internal Joint Seal	2,454.51	307.71
		For Extra Wide Seals, Add	*93.31*	
33 14 13 13-1200	EA	60" WEKO Internal Joint Seal	2,559.70	331.38
		For Extra Wide Seals, Add	*95.11*	

33 14 13 23 Plastic Public Water Utility Distribution Piping *(33 14 13)*

33 14 13 23-0001 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping *(33 14 13 23)*

33 14 13 23-0002 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe *(33 14 13 23-0001)*

33 14 13 23-0003	LF	3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.10	0.74
		For >1,000, Deduct	*-0.11*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.04*	
33 14 13 23-0004	LF	1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.31	0.80
		For >1,000, Deduct	*-0.12*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.05*	
33 14 13 23-0005	LF	1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.68	0.87
		For >1,000, Deduct	*-0.13*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.08*	
33 14 13 23-0006	LF	1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.09	0.96
		For >1,000, Deduct	*-0.15*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.10*	
33 14 13 23-0007	LF	2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.96	1.08
		For >1,000, Deduct	*-0.20*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.19*	
33 14 13 23-0008	LF	2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	5.06	1.23
		For >1,000, Deduct	*-0.25*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.30*	
33 14 13 23-0009	LF	3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	6.21	1.39
		For >1,000, Deduct	*-0.31*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.41*	
33 14 13 23-0010	LF	4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	8.74	1.72
		For >1,000, Deduct	*-0.44*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.67*	
33 14 13 23-0011	LF	6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	15.16	2.18
		For >1,000, Deduct	*-0.76*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*1.46*	
33 14 13 23-0012	LF	8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	23.85	2.95
		For >1,000, Deduct	*-1.19*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*2.47*	
33 14 13 23-0013	LF	10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	35.47	3.95
		For >1,000, Deduct	*-1.77*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*3.84*	
33 14 13 23-0014	LF	12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	49.36	5.33
		For >1,000, Deduct	*-2.47*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*5.41*	

33 14 13 23-0015 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) *(33 14 13 23-0001)*

33 14 13 23-0016	EA	3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	22.59	8.93
33 14 13 23-0017	EA	1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	28.53	11.16
33 14 13 23-0018	EA	1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	35.91	13.95
33 14 13 23-0019	EA	1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	52.76	15.43
33 14 13 23-0020	EA	2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	57.21	17.30
33 14 13 23-0021	EA	2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	67.55	19.62
33 14 13 23-0022	EA	3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	76.52	22.34
33 14 13 23-0023	EA	4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	105.32	27.43
33 14 13 23-0024	EA	6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	150.47	34.84
33 14 13 23-0025	EA	8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	240.90	45.74
33 14 13 23-0026	EA	10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	297.50	61.20
33 14 13 23-0027	EA	12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	393.64	82.37

33 14 13 23-0028 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) *(33 14 13 23-0001)*

33 14 13 23-0029	EA	3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	22.97	8.93
33 14 13 23-0030	EA	1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	28.80	11.16
33 14 13 23-0031	EA	1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	36.07	13.95
33 14 13 23-0032	EA	1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	47.79	15.43
33 14 13 23-0033	EA	2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	57.67	17.30
33 14 13 23-0034	EA	2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	69.42	19.62
33 14 13 23-0035	EA	3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	75.73	22.34
33 14 13 23-0036	EA	4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	103.61	27.43
33 14 13 23-0037	EA	6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	147.02	34.84
33 14 13 23-0038	EA	8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	234.32	45.74

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0039	EA	10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	270.25	61.20
33 14 13 23-0040	EA	12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	355.93	82.37

33 14 13 23-0041 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) *(33 14 13 23-0001)*

33 14 13 23-0042	EA	3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	33.85	13.39
33 14 13 23-0043	EA	1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	42.71	16.83
33 14 13 23-0044	EA	1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	53.54	21.01
33 14 13 23-0045	EA	1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	73.03	23.25
33 14 13 23-0046	EA	2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	83.00	25.85
33 14 13 23-0047	EA	2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	96.47	29.48
33 14 13 23-0048	EA	3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	116.90	33.41
33 14 13 23-0049	EA	4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	152.91	41.18
33 14 13 23-0050	EA	6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	249.50	52.35
33 14 13 23-0051	EA	8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	371.47	68.62
33 14 13 23-0052	EA	10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	439.10	94.96
33 14 13 23-0053	EA	12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	551.03	127.78

33 14 13 23-0054 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) *(33 14 13 23-0001)*

33 14 13 23-0055	EA	3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	15.11	5.96
33 14 13 23-0056	EA	1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	20.40	8.00
33 14 13 23-0057	EA	1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	27.20	10.51
33 14 13 23-0058	EA	1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	37.30	11.63
33 14 13 23-0059	EA	2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	41.16	12.93
33 14 13 23-0060	EA	2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	46.82	14.69
33 14 13 23-0061	EA	3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	54.31	16.70
33 14 13 23-0062	EA	4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	73.95	20.55
33 14 13 23-0063	EA	6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	104.92	26.18
33 14 13 23-0064	EA	8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	175.82	34.30
33 14 13 23-0065	EA	10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	208.86	47.52
33 14 13 23-0066	EA	12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	266.89	63.89

33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings *(33 14 13 23)*

33 14 13 23-0068 Schedule 40 Polyvinyl Chloride (PVC) Pipe *(33 14 13 23-0067)*

33 14 13 23-0069	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.29	0.74
		For >1,000, Deduct	*-0.11*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.06*	
33 14 13 23-0070	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.68	0.80
		For >1,000, Deduct	*-0.13*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.10*	
33 14 13 23-0071	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.43	0.96
		For >1,000, Deduct	*-0.17*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.15*	
33 14 13 23-0072	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.09	1.08
		For >1,000, Deduct	*-0.20*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.21*	
33 14 13 23-0073	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.26	1.23
		For >1,000, Deduct	*-0.26*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.33*	
33 14 13 23-0074	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	6.34	1.39
		For >1,000, Deduct	*-0.32*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.43*	
33 14 13 23-0075	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	8.39	1.72
		For >1,000, Deduct	*-0.42*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.62*	
33 14 13 23-0076	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	12.62	2.18
		For >1,000, Deduct	*-0.63*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*1.08*	

33 14 13 23-0077 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) *(33 14 13 23-0067)*

33 14 13 23-0078	EA	3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	22.73	8.93
33 14 13 23-0079	EA	1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	28.61	11.16
33 14 13 23-0080	EA	1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	39.78	15.43
33 14 13 23-0081	EA	2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	44.88	17.30
33 14 13 23-0082	EA	2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	53.69	19.62
33 14 13 23-0083	EA	3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	61.36	22.34
33 14 13 23-0084	EA	4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	79.95	27.43
33 14 13 23-0085	EA	6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	123.30	34.84

33 14 13 23-0086 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) *(33 14 13 23-0067)*

33 14 13 23-0087	EA	3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	22.70	8.93
33 14 13 23-0088	EA	1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	28.58	11.16
33 14 13 23-0089	EA	1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	39.79	15.43
33 14 13 23-0090	EA	2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	44.75	17.30
33 14 13 23-0091	EA	2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	53.34	19.62
33 14 13 23-0092	EA	3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	60.95	22.34
33 14 13 23-0093	EA	4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	79.11	27.43

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0094	EA	6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	120.63	34.84

33 14 13 23-0095 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) *(33 14 13 23-0067)*

33 14 13 23-0096	EA	3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	33.99	13.39
33 14 13 23-0097	EA	1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	42.82	16.83
33 14 13 23-0098	EA	1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	59.50	23.25
33 14 13 23-0099	EA	2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	66.87	25.85
33 14 13 23-0100	EA	2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	80.74	29.48
33 14 13 23-0101	EA	3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	93.75	33.41
33 14 13 23-0102	EA	4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	116.50	41.18
33 14 13 23-0103	EA	6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	187.51	52.35

33 14 13 23-0104 Couplings, Schedule 40 Polyvinyl Chloride (PVC) *(33 14 13 23-0067)*

33 14 13 23-0105	EA	3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	15.18	5.96
33 14 13 23-0106	EA	1" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	20.45	8.00
33 14 13 23-0107	EA	1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	29.66	11.63
33 14 13 23-0108	EA	2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	33.42	12.93
33 14 13 23-0109	EA	2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	39.13	14.69
33 14 13 23-0110	EA	3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	45.40	16.70
33 14 13 23-0111	EA	4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	56.21	20.55
33 14 13 23-0112	EA	6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	81.85	26.18

33 14 13 23-0113 Crosses, Schedule 40 Polyvinyl Chloride (PVC) *(33 14 13 23-0067)*

33 14 13 23-0114	EA	3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	45.45	17.86
33 14 13 23-0115	EA	1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	57.03	22.41
33 14 13 23-0116	EA	1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	79.32	30.97
33 14 13 23-0117	EA	2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	89.15	34.50
33 14 13 23-0118	EA	2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	107.61	39.25
33 14 13 23-0119	EA	3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	124.95	44.58
33 14 13 23-0120	EA	4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	155.25	54.85
33 14 13 23-0121	EA	6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	249.68	69.78

33 14 13 23-0122 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings *(33 14 13 23)*

33 14 13 23-0123 Schedule 80 Polyvinyl Chloride (PVC) Pipe *(33 14 13 23-0122)*

33 14 13 23-0124	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	2.89	0.80
		For >1,000, Deduct	*-0.14*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.13*	
33 14 13 23-0125	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.85	0.96
		For >1,000, Deduct	*-0.19*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.22*	
33 14 13 23-0126	LF	2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	4.79	1.08
		For >1,000, Deduct	*-0.24*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.31*	
33 14 13 23-0127	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	6.17	1.23
		For >1,000, Deduct	*-0.31*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.47*	
33 14 13 23-0128	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	7.62	1.39
		For >1,000, Deduct	*-0.38*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.62*	
33 14 13 23-0129	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	10.35	1.72
		For >1,000, Deduct	*-0.52*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*0.91*	
33 14 13 23-0130	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	16.99	2.18
		For >1,000, Deduct	*-0.85*	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	*1.73*	

33 14 13 23-0131 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) *(33 14 13 23-0122)*

33 14 13 23-0132	EA	1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	29.70	11.16
33 14 13 23-0133	EA	1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	39.78	15.43
33 14 13 23-0134	EA	2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	45.97	17.30
33 14 13 23-0135	EA	2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	56.00	19.62
33 14 13 23-0136	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	63.51	22.34
33 14 13 23-0137	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	80.46	27.43
33 14 13 23-0138	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	120.85	34.84

33 14 13 23-0139 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) *(33 14 13 23-0122)*

33 14 13 23-0140	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	34.16	11.16
33 14 13 23-0141	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	44.07	15.43
33 14 13 23-0142	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	50.09	17.30
33 14 13 23-0143	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	63.74	19.62
33 14 13 23-0144	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	73.59	22.34
33 14 13 23-0145	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	100.73	27.43
33 14 13 23-0146	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	119.50	34.84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0147		**Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC)** *(33 14 13 23-0122)*		
33 14 13 23-0148	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	45.10	16.83
33 14 13 23-0149	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	66.42	23.25
33 14 13 23-0150	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	75.12	25.85
33 14 13 23-0151	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	85.11	29.48
33 14 13 23-0152	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	97.93	33.41
33 14 13 23-0153	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	119.52	41.18
33 14 13 23-0154	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	187.40	52.35
33 14 13 23-0155		**Couplings, Schedule 80 Polyvinyl Chloride (PVC)** *(33 14 13 23-0122)*		
33 14 13 23-0156	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	22.08	8.00
33 14 13 23-0157	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	32.46	11.63
33 14 13 23-0158	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	36.05	12.93
33 14 13 23-0159	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	45.89	14.69
33 14 13 23-0160	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	52.21	16.70
33 14 13 23-0161	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	64.50	20.55
33 14 13 23-0162	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	93.42	26.18
33 14 13 23-0163		**Crosses, Schedule 80 Polyvinyl Chloride (PVC)** *(33 14 13 23-0122)*		
33 14 13 23-0164	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Cross	60.05	22.41
33 14 13 23-0165	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	88.51	30.97
33 14 13 23-0166	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Cross	100.11	34.50
33 14 13 23-0167	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	113.42	39.25
33 14 13 23-0168	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Cross	130.50	44.58
33 14 13 23-0169	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Cross	159.25	54.85
33 14 13 23-0170	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Cross	249.53	69.78
33 14 13 23-0171		**AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23)*		
		Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0172		**AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0173	LF	4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	9.05	3.47
33 14 13 23-0174	LF	6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	12.70	4.21
33 14 13 23-0175	LF	8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	16.86	4.73
33 14 13 23-0176	LF	10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	21.68	5.25
33 14 13 23-0177	LF	12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	27.55	5.89
33 14 13 23-0178		**AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0179	LF	4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	9.80	3.47
33 14 13 23-0180	LF	6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	14.27	4.21
33 14 13 23-0181	LF	8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	19.50	4.73
33 14 13 23-0182	LF	10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	25.78	5.25
33 14 13 23-0183	LF	12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	33.27	5.89
33 14 13 23-0184		**AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0185	LF	4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	10.55	3.47
33 14 13 23-0186	LF	6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	15.82	4.21
33 14 13 23-0187	LF	8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	22.14	4.73
33 14 13 23-0188	LF	10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	29.79	5.25
33 14 13 23-0189	LF	12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	38.99	5.89
33 14 13 23-0190		**AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0191	LF	18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	43.64	8.83
33 14 13 23-0192	LF	20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	53.07	10.51
33 14 13 23-0193	LF	24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	70.48	12.61
33 14 13 23-0194	LF	30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	100.17	14.71
33 14 13 23-0195	LF	36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	136.60	16.81
33 14 13 23-0196	LF	42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	171.46	17.87
33 14 13 23-0197	LF	48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	215.52	19.23
33 14 13 23-0198		**AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0199	LF	14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	32.22	6.62
33 14 13 23-0200	LF	16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	40.01	7.36
33 14 13 23-0201	LF	18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	49.50	8.83
33 14 13 23-0202	LF	20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	60.67	10.51
33 14 13 23-0203	LF	24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	82.20	12.61
33 14 13 23-0204	LF	30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	116.99	14.71
33 14 13 23-0205	LF	36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	159.13	16.81
33 14 13 23-0206	LF	42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	208.91	17.87
33 14 13 23-0207	LF	48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	264.11	19.23

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0208		**AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0209	LF	14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	36.73	6.62
33 14 13 23-0210	LF	16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	46.26	7.36
33 14 13 23-0211	LF	18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	57.26	8.83
33 14 13 23-0212	LF	20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	70.75	10.51
33 14 13 23-0213	LF	24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	96.68	12.61
33 14 13 23-0214	LF	30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	138.73	14.71
33 14 13 23-0215	LF	36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	190.86	16.81
33 14 13 23-0216	LF	42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	246.50	17.87
33 14 13 23-0217	LF	48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	313.17	19.23
33 14 13 23-0218		**AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0219	LF	14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	44.43	6.62
33 14 13 23-0220	LF	16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	55.41	7.36
33 14 13 23-0221	LF	18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	69.04	8.83
33 14 13 23-0222	LF	20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	84.97	10.51
33 14 13 23-0223	LF	24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	117.18	12.61
33 14 13 23-0224	LF	30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	170.91	14.71
33 14 13 23-0225	LF	36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	240.34	16.81
33 14 13 23-0226	LF	42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	319.07	17.87
33 14 13 23-0227	LF	48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	410.56	19.23
33 14 13 23-0228		**AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0229	LF	14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	50.22	6.62
33 14 13 23-0230	LF	16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	62.94	7.36
33 14 13 23-0231	LF	18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	78.54	8.83
33 14 13 23-0232	LF	20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	96.80	10.51
33 14 13 23-0233	LF	24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	134.20	12.61
33 14 13 23-0234	LF	30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	197.09	14.71
33 14 13 23-0235	LF	36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	278.58	16.81
33 14 13 23-0236	LF	42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	371.48	17.87
33 14 13 23-0237		**AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe** *(33 14 13 23-0171)*		
33 14 13 23-0238	LF	14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	55.86	6.62
33 14 13 23-0239	LF	16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	70.26	7.36
33 14 13 23-0240	LF	18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	87.77	8.83
33 14 13 23-0241	LF	20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	108.31	10.51
33 14 13 23-0242	LF	24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	150.75	12.61
33 14 13 23-0243	LF	30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	222.56	14.71
33 14 13 23-0244	LF	36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	315.79	16.81
33 14 13 23-0245		**AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings** *(33 14 13 23)*		
		Note: Includes rubber gaskets.		
33 14 13 23-0246		**90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)** *(33 14 13 23-0245)*		
33 14 13 23-0247	EA	4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	123.63	11.16
		For DR 25, Deduct	*-6.08*	
33 14 13 23-0248	EA	6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	246.26	12.55
		For DR 25, Deduct	*-13.27*	
33 14 13 23-0249	EA	8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	366.64	13.95
		For DR 25, Deduct	*-20.32*	
33 14 13 23-0250	EA	10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	560.54	22.19
		For DR 25, Deduct	*-30.97*	
33 14 13 23-0251	EA	12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	734.86	36.98
		For DR 25, Deduct	*-39.66*	
33 14 13 23-0252	EA	14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,097.39	46.23
		For DR 25, Deduct	*-60.30*	
33 14 13 23-0253	EA	16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,309.81	55.48
		For DR 25, Deduct	*-71.93*	
33 14 13 23-0254	EA	18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,233.43	73.97
		For DR 25, Deduct	*-125.13*	
33 14 13 23-0255	EA	20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,750.36	92.46
		For DR 25, Deduct	*-153.93*	
33 14 13 23-0256	EA	24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,546.46	124.83
		For DR 25, Deduct	*-257.81*	
33 14 13 23-0257		**45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)** *(33 14 13 23-0245)*		
33 14 13 23-0258	EA	4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	110.40	11.16
		For DR 25, Deduct	*-5.29*	
33 14 13 23-0259	EA	6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	186.26	12.55
		For DR 25, Deduct	*-9.67*	
33 14 13 23-0260	EA	8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	234.73	13.95
		For DR 25, Deduct	*-12.41*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0261	EA	10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	333.69	22.19
		For DR 25, Deduct	*-17.36*	
33 14 13 23-0262	EA	12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	451.03	36.98
		For DR 25, Deduct	*-22.62*	
33 14 13 23-0263	EA	14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	850.50	46.23
		For DR 25, Deduct	*-45.48*	
33 14 13 23-0264	EA	16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,075.90	55.48
		For DR 25, Deduct	*-57.90*	
33 14 13 23-0265	EA	18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,842.35	73.97
		For DR 25, Deduct	*-101.66*	
33 14 13 23-0266	EA	20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,288.68	92.46
		For DR 25, Deduct	*-126.23*	
33 14 13 23-0267	EA	24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,226.01	124.83
		For DR 25, Deduct	*-178.58*	

33 14 13 23-0268 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) *(33 14 13 23-0245)*

33 14 13 23-0269	EA	4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	108.80	11.16
		For DR 25, Deduct	*-5.19*	
33 14 13 23-0270	EA	6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	186.26	12.55
		For DR 25, Deduct	*-9.67*	
33 14 13 23-0271	EA	8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	234.73	13.95
		For DR 25, Deduct	*-12.41*	
33 14 13 23-0272	EA	10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	333.70	22.19
		For DR 25, Deduct	*-17.36*	
33 14 13 23-0273	EA	12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	451.03	36.98
		For DR 25, Deduct	*-22.62*	
33 14 13 23-0274	EA	14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	846.78	44.38
		For DR 25, Deduct	*-45.48*	
33 14 13 23-0275	EA	16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,075.88	55.48
		For DR 25, Deduct	*-57.90*	
33 14 13 23-0276	EA	18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,842.35	73.97
		For DR 25, Deduct	*-101.66*	
33 14 13 23-0277	EA	20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,288.68	92.46
		For DR 25, Deduct	*-126.23*	
33 14 13 23-0278	EA	24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,226.01	124.83
		For DR 25, Deduct	*-178.58*	

33 14 13 23-0279 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) *(33 14 13 23-0245)*

33 14 13 23-0280	EA	4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	96.95	11.16
		For DR 25, Deduct	*-4.48*	
33 14 13 23-0281	EA	6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	186.26	12.55
		For DR 25, Deduct	*-9.67*	
33 14 13 23-0282	EA	8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	234.73	13.95
		For DR 25, Deduct	*-12.41*	
33 14 13 23-0283	EA	10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	333.70	22.19
		For DR 25, Deduct	*-17.36*	
33 14 13 23-0284	EA	12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	451.03	36.98
		For DR 25, Deduct	*-22.62*	
33 14 13 23-0285	EA	14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	846.78	44.38
		For DR 25, Deduct	*-45.48*	
33 14 13 23-0286	EA	16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,075.88	55.48
		For DR 25, Deduct	*-57.90*	
33 14 13 23-0287	EA	18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,842.35	73.97
		For DR 25, Deduct	*-101.66*	
33 14 13 23-0288	EA	20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,288.68	92.46
		For DR 25, Deduct	*-126.23*	
33 14 13 23-0289	EA	24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,226.01	124.83
		For DR 25, Deduct	*-178.58*	

33 14 13 23-0290 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) *(33 14 13 23-0245)*

33 14 13 23-0291	EA	4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	146.45	12.55
		For DR 25, Deduct	*-7.28*	
33 14 13 23-0292	EA	6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	275.99	13.95
		For DR 25, Deduct	*-14.89*	
33 14 13 23-0293	EA	8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	382.68	15.81
		For DR 25, Deduct	*-21.06*	
33 14 13 23-0294	EA	10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	785.86	27.74
		For DR 25, Deduct	*-43.82*	
33 14 13 23-0295	EA	12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	973.65	55.48
		For DR 25, Deduct	*-51.76*	
33 14 13 23-0296	EA	14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,737.78	69.35
		For DR 25, Deduct	*-95.95*	
33 14 13 23-0297	EA	16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,150.64	83.22
		For DR 25, Deduct	*-119.05*	
33 14 13 23-0298	EA	18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,717.58	110.95
		For DR 25, Deduct	*-149.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0299	EA	20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,267.13	138.69
		For DR 25, Deduct	*-179.38*	
33 14 13 23-0300	EA	24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,418.09	94.31
		For DR 25, Deduct	*-253.77*	

33 14 13 23-0301 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) *(33 14 13 23-0245)*

33 14 13 23-0302	EA	6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	277.64	18.13
		For DR 25, Deduct	*-14.48*	
33 14 13 23-0303	EA	8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	374.22	19.53
		For DR 25, Deduct	*-20.11*	
33 14 13 23-0304	EA	8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	383.73	20.22
		For DR 25, Deduct	*-20.60*	
33 14 13 23-0305	EA	10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	420.89	27.74
		For DR 25, Deduct	*-21.92*	
33 14 13 23-0306	EA	10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	669.71	28.43
		For DR 25, Deduct	*-36.77*	
33 14 13 23-0307	EA	10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	715.58	29.13
		For DR 25, Deduct	*-39.44*	
33 14 13 23-0308	EA	12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	766.44	42.53
		For DR 25, Deduct	*-40.88*	
33 14 13 23-0309	EA	12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	876.04	43.22
		For DR 25, Deduct	*-47.38*	
33 14 13 23-0310	EA	12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	928.09	43.92
		For DR 25, Deduct	*-50.42*	
33 14 13 23-0311	EA	12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	947.81	48.08
		For DR 25, Deduct	*-51.10*	
33 14 13 23-0312	EA	14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,423.96	49.93
		For DR 25, Deduct	*-79.45*	
33 14 13 23-0313	EA	14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,480.36	50.62
		For DR 25, Deduct	*-82.75*	
33 14 13 23-0314	EA	14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,536.89	51.32
		For DR 25, Deduct	*-86.06*	
33 14 13 23-0315	EA	14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,600.03	55.48
		For DR 25, Deduct	*-89.34*	
33 14 13 23-0316	EA	14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,669.87	62.87
		For DR 25, Deduct	*-92.65*	
33 14 13 23-0317	EA	16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,776.19	61.03
		For DR 25, Deduct	*-99.25*	
33 14 13 23-0318	EA	16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,831.18	61.03
		For DR 25, Deduct	*-102.55*	
33 14 13 23-0319	EA	16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,887.59	61.71
		For DR 25, Deduct	*-105.85*	
33 14 13 23-0320	EA	16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,943.99	62.41
		For DR 25, Deduct	*-109.15*	
33 14 13 23-0321	EA	16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,022.09	73.97
		For DR 25, Deduct	*-112.45*	
33 14 13 23-0322	EA	16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,084.50	77.67
		For DR 25, Deduct	*-115.75*	
33 14 13 23-0323	EA	18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,197.82	79.52
		For DR 25, Deduct	*-122.33*	
33 14 13 23-0324	EA	18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,254.61	80.21
		For DR 25, Deduct	*-125.65*	
33 14 13 23-0325	EA	18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,311.00	80.91
		For DR 25, Deduct	*-128.95*	
33 14 13 23-0326	EA	18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,374.33	85.07
		For DR 25, Deduct	*-132.25*	
33 14 13 23-0327	EA	18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,444.10	92.46
		For DR 25, Deduct	*-135.55*	
33 14 13 23-0328	EA	18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,506.13	96.16
		For DR 25, Deduct	*-138.83*	
33 14 13 23-0329	EA	18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,585.54	101.71
		For DR 25, Deduct	*-142.93*	
33 14 13 23-0330	EA	20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,785.62	98.01
		For DR 25, Deduct	*-155.38*	
33 14 13 23-0331	EA	20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,880.94	98.70
		For DR 25, Deduct	*-161.01*	
33 14 13 23-0332	EA	20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,918.74	99.40
		For DR 25, Deduct	*-163.20*	
33 14 13 23-0333	EA	20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,963.52	103.56
		For DR 25, Deduct	*-165.38*	
33 14 13 23-0334	EA	20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,014.74	110.95
		For DR 25, Deduct	*-167.57*	
33 14 13 23-0335	EA	20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,081.19	114.65
		For DR 25, Deduct	*-171.11*	
33 14 13 23-0336	EA	20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,151.35	120.20
		For DR 25, Deduct	*-174.66*	
33 14 13 23-0337	EA	20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,209.23	129.45
		For DR 25, Deduct	*-177.02*	
33 14 13 23-0338	EA	24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,289.86	130.38
		For DR 25, Deduct	*-181.75*	
33 14 13 23-0339	EA	24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,330.66	131.07
		For DR 25, Deduct	*-184.11*	

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33 14 13 23-0340	EA	24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,371.45	131.76
		For DR 25, Deduct	*-186.48*	
33 14 13 23-0341	EA	24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,539.99	135.92
		For DR 25, Deduct	*-196.09*	
33 14 13 23-0342	EA	24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,714.99	143.32
		For DR 25, Deduct	*-205.70*	
33 14 13 23-0343	EA	24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,882.61	147.02
		For DR 25, Deduct	*-215.31*	
33 14 13 23-0344	EA	24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,053.93	152.57
		For DR 25, Deduct	*-224.93*	
33 14 13 23-0345	EA	24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,232.65	161.81
		For DR 25, Deduct	*-234.54*	
33 14 13 23-0346	EA	24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,411.35	171.06
		For DR 25, Deduct	*-244.15*	

33 14 13 23-0347 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) *(33 14 13 23-0245)*

33 14 13 23-0348	EA	4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	206.44	22.32
		For DR 25, Deduct	*-9.71*	
33 14 13 23-0349	EA	6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	360.75	25.10
		For DR 25, Deduct	*-18.63*	
33 14 13 23-0350	EA	8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	494.84	27.89
		For DR 25, Deduct	*-26.34*	
33 14 13 23-0351	EA	10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,001.34	44.38
		For DR 25, Deduct	*-54.75*	
33 14 13 23-0352	EA	12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,189.55	55.48
		For DR 25, Deduct	*-64.72*	
33 14 13 23-0353	EA	14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,146.93	73.97
		For DR 25, Deduct	*-119.94*	
33 14 13 23-0354	EA	16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,664.72	92.46
		For DR 25, Deduct	*-148.80*	
33 14 13 23-0355	EA	18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,415.94	147.94
		For DR 25, Deduct	*-187.20*	
33 14 13 23-0356	EA	20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,107.08	184.92
		For DR 25, Deduct	*-224.23*	
33 14 13 23-0357	EA	24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,785.82	249.65
		For DR 25, Deduct	*-317.19*	

33 14 13 23-0358 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) *(33 14 13 23-0245)*

33 14 13 23-0359	EA	6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	349.38	23.71
		For DR 25, Deduct	*-18.12*	
33 14 13 23-0360	EA	8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	469.69	25.10
		For DR 25, Deduct	*-25.17*	
33 14 13 23-0361	EA	8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	482.19	26.50
		For DR 25, Deduct	*-25.75*	
33 14 13 23-0362	EA	10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	718.90	33.29
		For DR 25, Deduct	*-39.14*	
33 14 13 23-0363	EA	10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	835.50	34.68
		For DR 25, Deduct	*-45.97*	
33 14 13 23-0364	EA	10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	916.46	36.07
		For DR 25, Deduct	*-50.66*	
33 14 13 23-0365	EA	12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	948.15	48.08
		For DR 25, Deduct	*-51.12*	
33 14 13 23-0366	EA	12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,085.89	49.47
		For DR 25, Deduct	*-59.22*	
33 14 13 23-0367	EA	12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,151.99	50.86
		For DR 25, Deduct	*-63.02*	
33 14 13 23-0368	EA	12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,182.82	59.18
		For DR 25, Deduct	*-63.87*	
33 14 13 23-0369	EA	14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,766.07	55.48
		For DR 25, Deduct	*-99.31*	
33 14 13 23-0370	EA	14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,837.40	56.87
		For DR 25, Deduct	*-103.42*	
33 14 13 23-0371	EA	14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,909.48	58.26
		For DR 25, Deduct	*-107.58*	
33 14 13 23-0372	EA	14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,995.15	66.57
		For DR 25, Deduct	*-111.72*	
33 14 13 23-0373	EA	14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,093.23	81.37
		For DR 25, Deduct	*-115.83*	
33 14 13 23-0374	EA	16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,200.49	66.57
		For DR 25, Deduct	*-124.04*	
33 14 13 23-0375	EA	16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,272.75	67.96
		For DR 25, Deduct	*-128.21*	
33 14 13 23-0376	EA	16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,344.23	69.35
		For DR 25, Deduct	*-132.33*	
33 14 13 23-0377	EA	16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,429.84	77.67
		For DR 25, Deduct	*-136.47*	
33 14 13 23-0378	EA	16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,478.95	92.46
		For DR 25, Deduct	*-137.64*	
33 14 13 23-0379	EA	16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,611.38	99.86
		For DR 25, Deduct	*-144.70*	

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33 14 13 23-0380	EA	18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,718.96	85.07
		For DR 25, Deduct	*-152.93*	
33 14 13 23-0381	EA	18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,791.05	86.45
		For DR 25, Deduct	*-157.09*	
33 14 13 23-0382	EA	18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,862.65	87.84
		For DR 25, Deduct	*-161.22*	
33 14 13 23-0383	EA	18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,947.22	96.16
		For DR 25, Deduct	*-165.29*	
33 14 13 23-0384	EA	18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,046.13	110.95
		For DR 25, Deduct	*-169.45*	
33 14 13 23-0385	EA	18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,129.43	118.35
		For DR 25, Deduct	*-173.56*	
33 14 13 23-0386	EA	18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,236.86	129.45
		For DR 25, Deduct	*-178.68*	
33 14 13 23-0387	EA	20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,444.45	103.56
		For DR 25, Deduct	*-194.24*	
33 14 13 23-0388	EA	20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,564.43	104.95
		For DR 25, Deduct	*-201.27*	
33 14 13 23-0389	EA	20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,613.06	106.34
		For DR 25, Deduct	*-204.02*	
33 14 13 23-0390	EA	20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,675.07	114.65
		For DR 25, Deduct	*-206.75*	
33 14 13 23-0391	EA	20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,750.03	129.45
		For DR 25, Deduct	*-209.47*	
33 14 13 23-0392	EA	20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,838.14	136.84
		For DR 25, Deduct	*-213.87*	
33 14 13 23-0393	EA	20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,935.11	147.94
		For DR 25, Deduct	*-218.35*	
33 14 13 23-0394	EA	20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,021.19	166.43
		For DR 25, Deduct	*-221.30*	
33 14 13 23-0395	EA	24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,036.38	135.92
		For DR 25, Deduct	*-225.87*	
33 14 13 23-0396	EA	24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,110.52	137.30
		For DR 25, Deduct	*-230.15*	
33 14 13 23-0397	EA	24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,162.75	138.69
		For DR 25, Deduct	*-233.12*	
33 14 13 23-0398	EA	24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,379.43	147.02
		For DR 25, Deduct	*-245.12*	
33 14 13 23-0399	EA	24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,609.13	161.81
		For DR 25, Deduct	*-257.13*	
33 14 13 23-0400	EA	24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,824.00	169.21
		For DR 25, Deduct	*-269.14*	
33 14 13 23-0401	EA	24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,047.12	180.31
		For DR 25, Deduct	*-281.19*	
33 14 13 23-0402	EA	24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,283.75	198.80
		For DR 25, Deduct	*-293.17*	
33 14 13 23-0403	EA	24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,521.24	217.29
		For DR 25, Deduct	*-305.20*	

33 14 13 23-0404 Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) *(33 14 13 23-0245)*

33 14 13 23-0405	EA	4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	76.88	11.16
		For DR 25, Deduct	*-3.27*	
33 14 13 23-0406	EA	6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	137.73	12.55
		For DR 25, Deduct	*-6.76*	
33 14 13 23-0407	EA	8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	165.00	13.95
		For DR 25, Deduct	*-8.23*	
33 14 13 23-0408	EA	10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	236.17	22.19
		For DR 25, Deduct	*-11.51*	
33 14 13 23-0409	EA	12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	370.60	27.74
		For DR 25, Deduct	*-18.91*	
33 14 13 23-0410	EA	14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	635.50	36.98
		For DR 25, Deduct	*-33.69*	
33 14 13 23-0411	EA	16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	754.45	46.23
		For DR 25, Deduct	*-39.72*	
33 14 13 23-0412	EA	18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,781.49	73.97
		For DR 25, Deduct	*-98.01*	
33 14 13 23-0413	EA	20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,003.57	92.46
		For DR 25, Deduct	*-109.12*	
33 14 13 23-0414	EA	24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,817.48	124.83
		For DR 25, Deduct	*-154.07*	

33 14 13 23-0415 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) *(33 14 13 23-0245)*

33 14 13 23-0416	EA	4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	93.50	11.16
		For DR 25, Deduct	*-4.27*	
33 14 13 23-0417	EA	6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	125.25	12.55
		For DR 25, Deduct	*-6.01*	
33 14 13 23-0418	EA	8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	179.19	13.95
		For DR 25, Deduct	*-9.08*	
33 14 13 23-0419	EA	10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	247.24	22.19
		For DR 25, Deduct	*-12.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0420	EA	12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	397.16	36.98
		For DR 25, Deduct	*-19.39*	
33 14 13 23-0421	EA	14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,018.12	44.38
		For DR 25, Deduct	*-55.76*	
33 14 13 23-0422	EA	16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,375.11	55.48
		For DR 25, Deduct	*-75.85*	
33 14 13 23-0423	EA	18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,698.10	73.97
		For DR 25, Deduct	*-93.01*	
33 14 13 23-0424	EA	20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,031.50	92.46
		For DR 25, Deduct	*-110.79*	
33 14 13 23-0425	EA	24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,759.21	124.83
		For DR 25, Deduct	*-150.57*	

33 14 13 23-0426 AWWA C906, High Density Polyethylene (HDPE) Pressure Piping *(33 14 13 23)*

Note: ASTM D3350 pipe, ASTM D2657 heat fusion.

33 14 13 23-0427 High Density Polyethylene (HDPE) Pressure Pipe *(33 14 13 23-0426)*

33 14 13 23-0428	LF	3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	6.90	2.73
		For SDR 19, Add	*0.12*	
		For SDR 17, Add	*0.31*	
		For SDR 15.5, Add	*0.45*	
		For SDR 13.5, Add	*0.70*	
		For SDR 11, Add	*1.13*	
33 14 13 23-0429	LF	4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.79	3.47
		For SDR 26, Deduct	*-0.52*	
		For SDR 19, Add	*0.26*	
		For SDR 17, Add	*0.63*	
		For SDR 15.5, Add	*0.93*	
		For SDR 13.5, Add	*1.45*	
		For SDR 11, Add	*2.33*	
33 14 13 23-0430	LF	6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	14.57	4.21
		For SDR 26, Deduct	*-1.13*	
		For SDR 19, Add	*0.55*	
		For SDR 17, Add	*1.37*	
		For SDR 15.5, Add	*2.00*	
		For SDR 13.5, Add	*3.13*	
		For SDR 11, Add	*5.04*	
33 14 13 23-0431	LF	8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	19.92	4.73
		For SDR 26, Deduct	*-1.92*	
		For SDR 19, Add	*0.94*	
		For SDR 17, Add	*2.32*	
		For SDR 15.5, Add	*3.40*	
		For SDR 13.5, Add	*5.31*	
		For SDR 11, Add	*8.55*	
33 14 13 23-0432	LF	10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	26.77	5.25
		For SDR 26, Deduct	*-2.98*	
		For SDR 19, Add	*1.46*	
		For SDR 17, Add	*3.61*	
		For SDR 15.5, Add	*5.29*	
		For SDR 13.5, Add	*8.26*	
		For SDR 11, Add	*13.29*	
33 14 13 23-0433	LF	12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	35.10	58.85
		For SDR 26, Deduct	*-4.30*	
		For SDR 19, Add	*2.11*	
		For SDR 17, Add	*5.21*	
		For SDR 15.5, Add	*7.63*	
		For SDR 13.5, Add	*11.91*	
		For SDR 11, Add	*19.16*	
33 14 13 23-0434	LF	14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	40.68	6.62
		For SDR 26, Deduct	*-5.05*	
		For SDR 19, Add	*2.48*	
		For SDR 17, Add	*6.12*	
		For SDR 15.5, Add	*8.96*	
		For SDR 13.5, Add	*13.99*	
		For SDR 11, Add	*22.52*	
33 14 13 23-0435	LF	16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	50.71	7.36
		For SDR 26, Deduct	*-6.60*	
		For SDR 19, Add	*3.24*	
		For SDR 17, Add	*8.00*	
		For SDR 15.5, Add	*11.71*	
		For SDR 13.5, Add	*18.28*	
		For SDR 11, Add	*29.43*	
33 14 13 23-0436	LF	18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	63.20	8.83
		For SDR 26, Deduct	*-8.34*	
		For SDR 19, Add	*4.09*	
		For SDR 17, Add	*10.11*	
		For SDR 15.5, Add	*14.80*	
		For SDR 13.5, Add	*23.10*	
		For SDR 11, Add	*37.19*	
33 14 13 23-0437	LF	20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	65.50	10.51
		For SDR 26, Deduct	*-8.15*	
		For SDR 19, Add	*4.00*	
		For SDR 17, Add	*9.88*	
		For SDR 15.5, Add	*14.47*	
		For SDR 13.5, Add	*22.59*	
		For SDR 11, Add	*36.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0438	LF	24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	106.17	12.61
		For SDR 26, Deduct	*-14.84*	
		For SDR 19, Add	*7.29*	
		For SDR 17, Add	*17.99*	
		For SDR 15.5, Add	*26.34*	
		For SDR 13.5, Add	*41.11*	
		For SDR 11, Add	*66.18*	
33 14 13 23-0439		**90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping** *(33 14 13 23-0426)*		
33 14 13 23-0440	EA	3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	57.41	13.95
		For SDR 26, Deduct	*-2.85*	
		For SDR 19, Add	*1.40*	
		For SDR 17, Add	*3.46*	
		For SDR 15.5, Add	*5.07*	
		For SDR 13.5, Add	*7.91*	
		For SDR 11, Add	*12.73*	
33 14 13 23-0441	EA	4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	65.04	15.51
		For SDR 26, Deduct	*-3.40*	
		For SDR 19, Add	*1.67*	
		For SDR 17, Add	*4.12*	
		For SDR 15.5, Add	*6.04*	
		For SDR 13.5, Add	*9.42*	
		For SDR 11, Add	*15.16*	
33 14 13 23-0442	EA	6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	102.46	17.72
		For SDR 26, Deduct	*-9.05*	
		For SDR 19, Add	*4.44*	
		For SDR 17, Add	*10.97*	
		For SDR 15.5, Add	*16.06*	
		For SDR 13.5, Add	*25.06*	
		For SDR 11, Add	*40.34*	
33 14 13 23-0443	EA	8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	165.17	20.68
		For SDR 26, Deduct	*-18.91*	
		For SDR 19, Add	*9.28*	
		For SDR 17, Add	*22.92*	
		For SDR 15.5, Add	*33.57*	
		For SDR 13.5, Add	*52.39*	
		For SDR 11, Add	*84.33*	
33 14 13 23-0444	EA	10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	254.82	27.62
		For SDR 26, Deduct	*-31.56*	
		For SDR 19, Add	*15.49*	
		For SDR 17, Add	*38.25*	
		For SDR 15.5, Add	*56.02*	
		For SDR 13.5, Add	*87.44*	
		For SDR 11, Add	*140.74*	
33 14 13 23-0445	EA	12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	376.06	41.34
		For SDR 26, Deduct	*-46.21*	
		For SDR 19, Add	*22.69*	
		For SDR 17, Add	*56.02*	
		For SDR 15.5, Add	*82.04*	
		For SDR 13.5, Add	*128.05*	
		For SDR 11, Add	*206.10*	
33 14 13 23-0446	EA	14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	465.95	55.17
		For SDR 26, Deduct	*-55.09*	
		For SDR 19, Add	*27.05*	
		For SDR 17, Add	*66.78*	
		For SDR 15.5, Add	*97.80*	
		For SDR 13.5, Add	*152.65*	
		For SDR 11, Add	*245.70*	
33 14 13 23-0447	EA	16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	607.81	82.67
		For SDR 26, Deduct	*-65.97*	
		For SDR 19, Add	*32.39*	
		For SDR 17, Add	*79.97*	
		For SDR 15.5, Add	*117.11*	
		For SDR 13.5, Add	*182.80*	
		For SDR 11, Add	*294.23*	
33 14 13 23-0448	EA	18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	768.77	92.99
		For SDR 26, Deduct	*-89.78*	
		For SDR 19, Add	*44.08*	
		For SDR 17, Add	*108.83*	
		For SDR 15.5, Add	*159.37*	
		For SDR 13.5, Add	*248.76*	
		For SDR 11, Add	*400.40*	
33 14 13 23-0449	EA	20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,056.39	105.54
		For SDR 26, Deduct	*-135.00*	
		For SDR 19, Add	*66.29*	
		For SDR 17, Add	*163.65*	
		For SDR 15.5, Add	*239.66*	
		For SDR 13.5, Add	*374.08*	
		For SDR 11, Add	*602.11*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0450	EA	24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,355.23	124.05
		For SDR 26, Deduct	*-180.23*	
		For SDR 19, Add	*88.49*	
		For SDR 17, Add	*218.48*	
		For SDR 15.5, Add	*319.96*	
		For SDR 13.5, Add	*499.40*	
		For SDR 11, Add	*803.82*	

33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping *(33 14 13 23-0426)*

33 14 13 23-0452	EA	3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	64.06	14.60
		For SDR 26, Deduct	*-3.73*	
		For SDR 19, Add	*1.83*	
		For SDR 17, Add	*4.52*	
		For SDR 15.5, Add	*6.63*	
		For SDR 13.5, Add	*10.34*	
		For SDR 11, Add	*16.64*	
33 14 13 23-0453	EA	4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	73.54	16.54
		For SDR 26, Deduct	*-4.39*	
		For SDR 19, Add	*2.16*	
		For SDR 17, Add	*5.33*	
		For SDR 15.5, Add	*7.80*	
		For SDR 13.5, Add	*12.17*	
		For SDR 11, Add	*19.60*	
33 14 13 23-0454	EA	6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	119.86	19.09
		For SDR 26, Deduct	*-11.49*	
		For SDR 19, Add	*5.64*	
		For SDR 17, Add	*13.92*	
		For SDR 15.5, Add	*20.39*	
		For SDR 13.5, Add	*31.83*	
		For SDR 11, Add	*51.22*	
33 14 13 23-0455	EA	8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	226.57	22.55
		For SDR 26, Deduct	*-29.14*	
		For SDR 19, Add	*14.31*	
		For SDR 17, Add	*35.32*	
		For SDR 15.5, Add	*51.73*	
		For SDR 13.5, Add	*80.74*	
		For SDR 11, Add	*129.95*	
33 14 13 23-0456	EA	10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	308.63	33.11
		For SDR 26, Deduct	*-38.39*	
		For SDR 19, Add	*18.85*	
		For SDR 17, Add	*46.53*	
		For SDR 15.5, Add	*68.15*	
		For SDR 13.5, Add	*106.36*	
		For SDR 11, Add	*171.20*	
33 14 13 23-0457	EA	12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	434.76	49.66
		For SDR 26, Deduct	*-52.41*	
		For SDR 19, Add	*25.74*	
		For SDR 17, Add	*63.54*	
		For SDR 15.5, Add	*93.05*	
		For SDR 13.5, Add	*145.23*	
		For SDR 11, Add	*233.76*	
33 14 13 23-0458	EA	14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	522.39	62.03
		For SDR 26, Deduct	*-61.66*	
		For SDR 19, Add	*30.28*	
		For SDR 17, Add	*74.75*	
		For SDR 15.5, Add	*109.47*	
		For SDR 13.5, Add	*170.86*	
		For SDR 11, Add	*275.02*	
33 14 13 23-0459	EA	16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	678.59	92.99
		For SDR 26, Deduct	*-73.23*	
		For SDR 19, Add	*35.95*	
		For SDR 17, Add	*88.77*	
		For SDR 15.5, Add	*129.99*	
		For SDR 13.5, Add	*202.90*	
		For SDR 11, Add	*326.58*	
33 14 13 23-0460	EA	18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	880.02	108.33
		For SDR 26, Deduct	*-101.75*	
		For SDR 19, Add	*49.96*	
		For SDR 17, Add	*123.34*	
		For SDR 15.5, Add	*180.62*	
		For SDR 13.5, Add	*281.93*	
		For SDR 11, Add	*453.78*	
33 14 13 23-0461	EA	20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,243.92	127.96
		For SDR 26, Deduct	*-156.86*	
		For SDR 19, Add	*77.02*	
		For SDR 17, Add	*190.15*	
		For SDR 15.5, Add	*278.46*	
		For SDR 13.5, Add	*434.64*	
		For SDR 11, Add	*699.58*	
33 14 13 23-0462	EA	24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,621.37	155.11
		For SDR 26, Deduct	*-211.97*	
		For SDR 19, Add	*104.08*	
		For SDR 17, Add	*256.96*	
		For SDR 15.5, Add	*376.30*	
		For SDR 13.5, Add	*587.35*	
		For SDR 11, Add	*945.37*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping *(33 14 13)*

See CSI section 22 11 16 00-0013 for galvanized steel pipe.

33 14 13 36 Steel Public Water Utility Distribution Piping *(33 14 13)*

33 14 13 36-0001 Steel Piping *(33 14 13 36)*

33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping *(33 14 13 36-0001)*

Note: ASTM A252 steel pipe.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping *(33 14 13 36-0002)*

33 14 13 36-0004	LF	8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	104.49	24.87
		For <100, Add	*10.88*	
		For >1,000, Deduct	*-5.22*	
33 14 13 36-0005	LF	8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	125.76	24.87
		For <100, Add	*11.94*	
		For >1,000, Deduct	*-6.29*	
33 14 13 36-0006	LF	10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	124.76	27.14
		For <100, Add	*12.40*	
		For >1,000, Deduct	*-6.24*	
33 14 13 36-0007	LF	10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	151.65	27.14
		For <100, Add	*13.75*	
		For >1,000, Deduct	*-7.58*	
33 14 13 36-0008	LF	12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	151.82	28.44
		For <100, Add	*14.05*	
		For >1,000, Deduct	*-7.59*	
33 14 13 36-0009	LF	12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	172.74	28.44
		For <100, Add	*15.10*	
		For >1,000, Deduct	*-8.64*	
33 14 13 36-0010	LF	14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	184.47	31.42
		For <100, Add	*16.37*	
		For >1,000, Deduct	*-9.22*	
33 14 13 36-0011	LF	14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	201.18	31.42
		For <100, Add	*17.20*	
		For >1,000, Deduct	*-10.06*	
33 14 13 36-0012	LF	16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	195.81	33.17
		For <100, Add	*17.33*	
		For >1,000, Deduct	*-9.79*	
33 14 13 36-0013	LF	16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	208.72	33.17
		For <100, Add	*17.98*	
		For >1,000, Deduct	*-10.44*	
33 14 13 36-0014	LF	18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	243.31	37.32
		For <100, Add	*20.65*	
		For >1,000, Deduct	*-12.17*	
33 14 13 36-0015	LF	20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	264.46	37.32
		For <100, Add	*21.70*	
		For >1,000, Deduct	*-13.22*	

33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping *(33 14 13 36-0002)*

33 14 13 36-0017	LF	12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	209.27	47.82
		For <100, Add	*17.98*	
		For >1,000, Deduct	*-10.46*	
33 14 13 36-0018	LF	14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	248.96	52.60
		For <100, Add	*20.75*	
		For >1,000, Deduct	*-12.45*	
33 14 13 36-0019	LF	16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	277.01	55.00
		For <100, Add	*22.62*	
		For >1,000, Deduct	*-13.85*	
33 14 13 36-0020	LF	18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	312.52	62.16
		For <100, Add	*25.49*	
		For >1,000, Deduct	*-15.63*	
33 14 13 36-0021	LF	18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	326.86	62.16
		For <100, Add	*26.21*	
		For >1,000, Deduct	*-16.34*	
33 14 13 36-0022	LF	20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	340.12	62.16
		For <100, Add	*26.87*	
		For >1,000, Deduct	*-17.01*	
33 14 13 36-0023	LF	20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	355.42	62.16
		For <100, Add	*27.63*	
		For >1,000, Deduct	*-17.77*	
33 14 13 36-0024	LF	24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	412.13	71.73
		For <100, Add	*31.88*	
		For >1,000, Deduct	*-20.61*	
33 14 13 36-0025	LF	24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	459.45	71.73
		For <100, Add	*34.24*	
		For >1,000, Deduct	*-22.97*	
33 14 13 36-0026	LF	24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	575.60	71.73
		For <100, Add	*40.05*	
		For >1,000, Deduct	*-28.78*	
33 14 13 36-0027	LF	30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	513.09	83.68
		For <100, Add	*38.81*	
		For >1,000, Deduct	*-25.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0028	LF	30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	532.45	83.68
		For <100, Add	*39.77*	
		For >1,000, Deduct	*-26.62*	
33 14 13 36-0029	LF	30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	715.04	83.68
		For <100, Add	*48.90*	
		For >1,000, Deduct	*-35.75*	
33 14 13 36-0030	LF	36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	613.47	83.68
		For <100, Add	*43.82*	
		For >1,000, Deduct	*-30.67*	
33 14 13 36-0031	LF	36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	718.95	100.42
		For <100, Add	*51.73*	
		For >1,000, Deduct	*-35.95*	
33 14 13 36-0032	LF	36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	860.56	100.42
		For <100, Add	*58.81*	
		For >1,000, Deduct	*-43.03*	
33 14 13 36-0033	LF	36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	825.19	100.42
		For <100, Add	*57.04*	
		For >1,000, Deduct	*-41.26*	
33 14 13 36-0034	LF	42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,270.07	112.37
		For <100, Add	*81.04*	
		For >1,000, Deduct	*-63.50*	
33 14 13 36-0035	LF	42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	765.07	112.37
		For <100, Add	*55.79*	
		For >1,000, Deduct	*-38.25*	
33 14 13 36-0036	LF	48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,456.75	126.72
		For <100, Add	*92.56*	
		For >1,000, Deduct	*-72.84*	
33 14 13 36-0037	LF	48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	838.94	126.72
		For <100, Add	*61.67*	
		For >1,000, Deduct	*-41.95*	
33 14 13 36-0038	LF	54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,524.54	143.46
		For <100, Add	*98.77*	
		For >1,000, Deduct	*-76.23*	
33 14 13 36-0039	LF	54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,685.86	143.46
		For <100, Add	*106.84*	
		For >1,000, Deduct	*-84.29*	
33 14 13 36-0040	LF	60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,884.17	167.37
		For <100, Add	*120.51*	
		For >1,000, Deduct	*-94.21*	
33 14 13 36-0041	LF	66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,310.58	167.37
		For <100, Add	*91.83*	
		For >1,000, Deduct	*-65.53*	
33 14 13 36-0042	LF	72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	1,442.10	137.89
		For <100, Add	*113.47*	
		For >1,000, Deduct	*-72.11*	
33 14 13 36-0043	LF	78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe	2,737.47	137.89
		For <100, Add	*178.24*	
		For >1,000, Deduct	*-136.87*	

33 14 13 36-0044 Flexible Couplings (Dresser Style 38) *(33 14 13 36-0001)*

33 14 13 36-0045	EA	2" Dresser Coupling For Plain End Welded Steel Pipe	105.05	24.27
33 14 13 36-0046	EA	3" Dresser Coupling For Plain End Welded Steel Pipe	154.30	46.67
33 14 13 36-0047	EA	4" Dresser Coupling For Plain End Welded Steel Pipe	205.33	61.61
33 14 13 36-0048	EA	6" Dresser Coupling For Plain End Welded Steel Pipe	327.66	93.34
33 14 13 36-0049	EA	8" Dresser Coupling For Plain End Welded Steel Pipe	429.10	117.60
33 14 13 36-0050	EA	10" Dresser Coupling For Plain End Welded Steel Pipe	597.74	146.39
33 14 13 36-0051	EA	12" Dresser Coupling For Plain End Welded Steel Pipe	710.25	183.48
33 14 13 36-0052	EA	14" Dresser Coupling For Plain End Welded Steel Pipe	764.53	183.48
33 14 13 36-0053	EA	16" Dresser Coupling For Plain End Welded Steel Pipe	808.04	209.82
33 14 13 36-0054	EA	18" Dresser Coupling For Plain End Welded Steel Pipe	885.07	224.47
33 14 13 36-0055	EA	20" Dresser Coupling For Plain End Welded Steel Pipe	965.32	253.74
33 14 13 36-0056	EA	24" Dresser Coupling For Plain End Welded Steel Pipe	1,215.02	268.38
33 14 13 36-0057	EA	30" Dresser Coupling For Plain End Welded Steel Pipe	1,454.41	292.78
33 14 13 36-0058	EA	36" Dresser Coupling For Plain End Welded Steel Pipe	1,704.48	329.37
33 14 13 36-0059	EA	42" Dresser Coupling For Plain End Welded Steel Pipe	1,966.55	370.85
33 14 13 36-0060	EA	48" Dresser Coupling For Plain End Welded Steel Pipe	2,287.73	426.97
33 14 13 36-0061	EA	54" Dresser Coupling For Plain End Welded Steel Pipe	2,538.50	487.96
33 14 13 36-0062	EA	60" Dresser Coupling For Plain End Welded Steel Pipe	2,926.72	609.95
33 14 13 36-0063	EA	66" Dresser Coupling For Plain End Welded Steel Pipe	3,375.03	741.70
33 14 13 36-0064	EA	72" Dresser Coupling For Plain End Welded Steel Pipe	4,023.26	878.33

33 14 13 39 Copper Public Water Utility Distribution Piping *(33 14 13)*

33 14 13 39-0001 Type L Copper Water Distribution Piping *(33 14 13 39)*

33 14 13 39-0002	LF	1/2" Type L Copper Water Distribution Pipe	6.35	1.78
33 14 13 39-0003	LF	3/4" Type L Copper Water Distribution Pipe	7.92	2.00
33 14 13 39-0004	LF	1" Type L Copper Water Distribution Pipe	10.46	2.22
33 14 13 39-0005	LF	1-1/4" Type L Copper Water Distribution Pipe	13.03	2.66
33 14 13 39-0006	LF	1-1/2" Type L Copper Water Distribution Pipe	16.03	3.55
33 14 13 39-0007	LF	2" Type L Copper Water Distribution Pipe	23.20	4.44
33 14 13 39-0008	LF	2-1/2" Type L Copper Water Distribution Pipe	29.43	5.33
33 14 13 39-0009	LF	3" Type L Copper Water Distribution Pipe	36.79	5.86

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 39-0010	LF	3-1/2" Type L Copper Water Distribution Pipe	49.48	7.37
33 14 13 39-0011	LF	4" Type L Copper Water Distribution Pipe	65.29	9.31
33 14 13 39-0012	LF	5" Type L Copper Water Distribution Pipe	104.61	11.63
33 14 13 39-0013	LF	6" Type L Copper Water Distribution Pipe	135.00	14.03
33 14 13 39-0014	LF	8" Type L Copper Water Distribution Pipe	231.26	15.70

33 14 13 39-0015 Type K Copper Water Distribution Piping *(33 14 13 39)*

33 14 13 39-0016	LF	1/2" Type K Copper Water Distribution Pipe	6.74	1.78
33 14 13 39-0017	LF	3/4" Type K Copper Water Distribution Pipe	9.31	2.00
33 14 13 39-0018	LF	1" Type K Copper Water Distribution Pipe	11.84	2.22
33 14 13 39-0019	LF	1-1/4" Type K Copper Water Distribution Pipe	13.89	2.66
33 14 13 39-0020	LF	1-1/2" Type K Copper Water Distribution Pipe	17.29	3.55
33 14 13 39-0021	LF	2" Type K Copper Water Distribution Pipe	24.90	4.44
33 14 13 39-0022	LF	2-1/2" Type K Copper Water Distribution Pipe	34.14	5.33
33 14 13 39-0023	LF	3" Type K Copper Water Distribution Pipe	43.86	5.86
33 14 13 39-0024	LF	3-1/2" Type K Copper Water Distribution Pipe	57.79	7.37
33 14 13 39-0025	LF	4" Type K Copper Water Distribution Pipe	77.89	9.31
33 14 13 39-0026	LF	5" Type K Copper Water Distribution Pipe	130.69	11.63
33 14 13 39-0027	LF	6" Type K Copper Water Distribution Pipe	181.89	14.03
33 14 13 39-0028	LF	8" Type K Copper Water Distribution Pipe	317.80	15.70

33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps *(33 14 13)*

33 14 13 43-0001 Pipe Coatings *(33 14 13 43)*

33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating *(33 14 13 43-0001)*

Note: Applied at fabrication shop.

33 14 13 43-0003	LF	8" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	3.40
33 14 13 43-0004	LF	10" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.05
33 14 13 43-0005	LF	12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.77
33 14 13 43-0006	LF	14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.34
33 14 13 43-0007	LF	16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.24
33 14 13 43-0008	LF	18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.61
33 14 13 43-0009	LF	20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	8.19
33 14 13 43-0010	LF	24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	9.55
33 14 13 43-0011	LF	30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	12.54
33 14 13 43-0012	LF	36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	19.80
33 14 13 43-0013	LF	42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	42.69
33 14 13 43-0014	LF	48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	48.78
33 14 13 43-0015	LF	54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	54.88
33 14 13 43-0016	LF	60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	60.98
33 14 13 43-0017	LF	66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	67.08
33 14 13 43-0018	LF	72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	73.15
33 14 13 43-0019	LF	78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	79.28

33 14 13 43-0020 Cement Coating With Fiberglass Or Wire Mesh Reinforcing *(33 14 13 43-0001)*

Note: Applied at fabrication shop. Thickness ranging between 1" and 2".

33 14 13 43-0021	LF	4" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	7.66
33 14 13 43-0022	LF	6" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	9.43
33 14 13 43-0023	LF	8" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	11.78
33 14 13 43-0024	LF	10" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	13.13
33 14 13 43-0025	LF	12" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	14.83
33 14 13 43-0026	LF	14" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	17.35
33 14 13 43-0027	LF	16" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	19.71
33 14 13 43-0028	LF	18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	22.24
33 14 13 43-0029	LF	20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	24.72
33 14 13 43-0030	LF	24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	29.65
33 14 13 43-0031	LF	30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	37.06
33 14 13 43-0032	LF	36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	44.48
33 14 13 43-0033	LF	42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	25.10
33 14 13 43-0034	LF	48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	28.68
33 14 13 43-0035	LF	54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	32.27
33 14 13 43-0036	LF	60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	35.85

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0037	LF	66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0038	LF	72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0039	LF	78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61	

33 14 13 43-0040 Pipe Lining *(33 14 13 43)*

33 14 13 43-0041 Cement Pipe Lining *(33 14 13 43-0040)*

Note: Shop applied.

33 14 13 43-0042	LF	4" Outside Diameter, 1/4" Thick Cement Pipe Lining	11.59	
		For 1/2" Thick, Add	*1.02*	
33 14 13 43-0043	LF	6" Outside Diameter, 1/4" Thick Cement Pipe Lining	14.39	
		For 1/2" Thick, Add	*1.26*	
33 14 13 43-0044	LF	8" Outside Diameter, 1/4" Thick Cement Pipe Lining	17.58	
		For 1/2" Thick, Add	*1.57*	
33 14 13 43-0045	LF	10" Outside Diameter, 1/4" Thick Cement Pipe Lining	22.78	
		For 1/2" Thick, Add	*1.96*	
33 14 13 43-0046	LF	12" Outside Diameter, 1/4" Thick Cement Pipe Lining	28.01	
		For 1/2" Thick, Add	*2.36*	
33 14 13 43-0047	LF	14" Outside Diameter, 1/4" Thick Cement Pipe Lining	35.69	
		For 1/2" Thick, Add	*2.76*	
33 14 13 43-0048	LF	16" Outside Diameter, 1/4" Thick Cement Pipe Lining	46.08	
		For 1/2" Thick, Add	*3.14*	
33 14 13 43-0049	LF	18" Outside Diameter, 5/16" Thick Cement Pipe Lining	54.98	
		For 1/2" Thick, Add	*3.01*	
33 14 13 43-0050	LF	20" Outside Diameter, 5/16" Thick Cement Pipe Lining	66.26	
		For 1/2" Thick, Add	*3.35*	
33 14 13 43-0051	LF	24" Outside Diameter, 5/16" Thick Cement Pipe Lining	80.32	
		For 1/2" Thick, Add	*4.02*	
33 14 13 43-0052	LF	30" Outside Diameter, 5/16" Thick Cement Pipe Lining	96.75	
		For 1/2" Thick, Add	*5.02*	
33 14 13 43-0053	LF	36" Outside Diameter, 5/16" Thick Cement Pipe Lining	116.43	
		For 1/2" Thick, Add	*6.02*	
33 14 13 43-0054	LF	42" Outside Diameter, 3/8" Thick Cement Pipe Lining	135.87	
		For 1/2" Thick, Add	*5.17*	
33 14 13 43-0055	LF	48" Outside Diameter, 3/8" Thick Cement Pipe Lining	155.21	
		For 1/2" Thick, Add	*5.91*	
33 14 13 43-0056	LF	54" Outside Diameter, 3/8" Thick Cement Pipe Lining	174.65	
		For 1/2" Thick, Add	*6.64*	
33 14 13 43-0057	LF	60" Outside Diameter, 3/8" Thick Cement Pipe Lining	194.08	
		For 1/2" Thick, Add	*7.38*	
33 14 13 43-0058	LF	66" Outside Diameter, 7/16" Thick Cement Pipe Lining	213.44	
		For 1/2" Thick, Add	*4.33*	
33 14 13 43-0059	LF	72" Outside Diameter, 7/16" Thick Cement Pipe Lining	232.87	
		For 1/2" Thick, Add	*4.72*	
33 14 13 43-0060	LF	78" Outside Diameter, 7/16" Thick Cement Pipe Lining	252.30	
		For 1/2" Thick, Add	*5.12*	

33 14 13 43-0061 Cement Fitting Lining *(33 14 13 43-0040)*

Note: Shop applied.

33 14 13 43-0062	EA	4" Outside Diameter, 1/4" Thick Cement Fitting Lining	11.59	
		For 1/2" Thick, Add	*1.02*	
33 14 13 43-0063	EA	6" Outside Diameter, 1/4" Thick Cement Fitting Lining	14.39	
		For 1/2" Thick, Add	*1.26*	
33 14 13 43-0064	EA	8" Outside Diameter, 1/4" Thick Cement Fitting Lining	22.36	
		For 1/2" Thick, Add	*2.04*	
33 14 13 43-0065	EA	10" Outside Diameter, 1/4" Thick Cement Fitting Lining	36.77	
		For 1/2" Thick, Add	*3.14*	
33 14 13 43-0066	EA	12" Outside Diameter, 1/4" Thick Cement Fitting Lining	56.02	
		For 1/2" Thick, Add	*4.72*	
33 14 13 43-0067	EA	14" Outside Diameter, 1/4" Thick Cement Fitting Lining	82.83	
		For 1/2" Thick, Add	*6.36*	
33 14 13 43-0068	EA	16" Outside Diameter, 1/4" Thick Cement Fitting Lining	121.82	
		For 1/2" Thick, Add	*8.17*	
33 14 13 43-0069	EA	18" Outside Diameter, 5/16" Thick Cement Fittings Lining	164.93	
		For 1/2" Thick, Add	*9.04*	
33 14 13 43-0070	EA	20" Outside Diameter, 5/16" Thick Cement Fitting Lining	220.77	
		For 1/2" Thick, Add	*11.15*	
33 14 13 43-0071	EA	24" Outside Diameter, 5/16" Thick Cement Fitting Lining	321.29	
		For 1/2" Thick, Add	*16.07*	

33 14 13 43-0072 8 Mil Polyethylene Encasement Tubing *(33 14 13 43)*

Note: ANSI/AWWA C105/A21.5-99 section 4.2.

33 14 13 43-0073	LF	3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing	0.85	
33 14 13 43-0074	LF	10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing	1.41	
33 14 13 43-0075	LF	14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing	1.77	
33 14 13 43-0076	LF	18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing	2.25	
33 14 13 43-0077	LF	24" Diameter, 8 Mil Polyethylene Encasement Tubing	3.13	
33 14 13 43-0078	LF	30" Diameter, 8 Mil Polyethylene Encasement Tubing	4.04	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0079	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing	5.13	
33 14 13 43-0080	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing	6.12	
33 14 13 43-0081	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing	7.29	
33 14 13 43-0082	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing	8.13	

33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters *(33 14 13)*

33 14 13 53-0001 Double Stud Stainless Steel Service Saddles *(33 14 13 53)*

Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.

33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	238.02	
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	337.46	
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	348.26	
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	286.19	
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	360.99	
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	298.82	
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	377.89	
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	337.17	
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	398.07	
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	351.43	
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	408.90	

33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles *(33 14 13 53)*

Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.

33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	197.05	
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	197.20	
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	209.77	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	200.64	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	214.69	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	237.89	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	253.06	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	231.12	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	254.52	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	267.39	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	243.81	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	267.98	
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	280.78	
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	256.98	
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	280.42	
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	293.05	
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	433.80	
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	444.61	
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	278.59	
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	307.04	
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	318.72	
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	514.69	
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	312.65	
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	346.88	
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	575.68	
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	340.57	
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	376.82	
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	390.20	
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	643.49	
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	398.90	
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	427.16	
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	460.40	
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	793.45	
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	409.69	
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	467.67	
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	487.15	
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	853.30	
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	428.12	
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	488.24	
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	508.26	
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	888.04	
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	474.73	
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	549.96	
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	542.38	
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	600.85	
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	566.55	
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	640.41	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0061		**Double Bale Bronze Service Saddles** *(33 14 13 53)*		
33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	274.60	
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	300.52	
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	312.36	
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	338.53	
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	348.66	
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	366.44	
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	337.11	
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	358.73	
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	429.99	
33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	465.40	
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	651.84	
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	737.33	
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	758.93	
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	848.05	
33 14 13 53-0076		**Stainless Steel Double Straps, Bronze Body Service Saddle** *(33 14 13 53)*		
		Note: Taps are compression or NPT.		
33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	288.98	
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	318.67	
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	329.34	
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	357.94	
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	369.66	
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	388.57	
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	417.16	
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	446.68	
33 14 13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	449.24	
33 14 13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	487.12	
33 14 13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	699.53	
33 14 13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	804.77	
33 14 13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	815.51	
33 14 13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	889.12	
33 14 13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,266.02	
33 14 13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,266.02	
33 14 13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,316.15	
33 14 13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,316.15	
33 14 13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,412.30	
33 14 13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,412.30	
33 14 13 53-0097		**Ductile Iron Mechanical Joint Tapping Sleeve** *(33 14 13 53)*		
33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,303.09	
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,572.73	
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,881.93	
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,992.82	
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,048.59	
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,204.16	
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,270.34	
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,210.61	
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,365.56	
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,744.55	
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,840.01	
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,463.52	
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,638.75	
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,716.98	
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,750.04	
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,997.94	
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,985.26	
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,006.88	
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,202.79	
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,248.22	
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,298.34	
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,234.99	
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,654.23	
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,739.56	
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,183.19	
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,305.49	
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,678.50	
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,096.51	
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,757.73	
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,926.32	
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,991.55	
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,320.46	
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,641.03	
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,884.76	
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,999.87	
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,151.24	
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,194.20	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,549.91	
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,749.61	
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,792.81	
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,227.23	
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,432.56	

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve *(33 14 13 53)*

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,074.67	
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,137.88	
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,246.15	
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,279.40	
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,332.75	
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,536.07	
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,394.84	
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,446.76	
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,625.32	
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,263.25	
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,566.00	
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,642.74	
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,818.43	
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,389.78	
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,610.40	
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,068.26	
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,131.53	
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,509.98	
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,979.47	
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,284.33	
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,460.18	
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,525.53	
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,775.64	
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,447.68	
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,605.56	
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,601.73	
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,721.15	
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,887.52	
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,678.55	
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,836.24	
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,146.75	
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,211.96	
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,586.89	
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,221.73	
33 14 13 53-0175	EA	20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,490.38	
33 14 13 53-0176	EA	24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,392.44	
33 14 13 53-0177	EA	24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,536.83	
33 14 13 53-0178	EA	24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,732.25	
33 14 13 53-0179	EA	24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,633.82	
33 14 13 53-0180	EA	24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,798.29	

33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve *(33 14 13 53)*

33 14 13 53-0182	EA	4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,247.48	
33 14 13 53-0183	EA	6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,356.14	
33 14 13 53-0184	EA	6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,436.34	
33 14 13 53-0185	EA	8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,461.97	
33 14 13 53-0186	EA	8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,554.55	
33 14 13 53-0187	EA	8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,833.60	
33 14 13 53-0188	EA	10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,677.49	
33 14 13 53-0189	EA	10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,780.29	
33 14 13 53-0190	EA	10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,030.27	
33 14 13 53-0191	EA	10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,754.51	
33 14 13 53-0192	EA	12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,912.99	
33 14 13 53-0193	EA	12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,053.58	
33 14 13 53-0194	EA	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,384.22	
33 14 13 53-0195	EA	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,815.38	
33 14 13 53-0196	EA	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,144.73	
33 14 13 53-0197	EA	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,182.59	
33 14 13 53-0198	EA	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,355.32	
33 14 13 53-0199	EA	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,727.80	
33 14 13 53-0200	EA	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,159.38	
33 14 13 53-0201	EA	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,387.06	
33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,667.86	
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,904.45	
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,084.45	
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,548.59	
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,863.05	
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,936.95	
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,291.18	
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,479.08	
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,886.80	
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,426.62	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0212	EA	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,166.55	
33 14 13 53-0213	EA	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,519.86	
33 14 13 53-0214	EA	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,672.30	
33 14 13 53-0215	EA	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,432.09	
33 14 13 53-0216	EA	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,854.44	
33 14 13 53-0217	EA	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,758.02	
33 14 13 53-0218	EA	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,807.21	
33 14 13 53-0219	EA	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,990.24	
33 14 13 53-0220	EA	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,897.42	
33 14 13 53-0221	EA	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,381.01	

33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter *(33 14 13 53)*

33 14 13 53-0223	EA	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	308.62	54.43
33 14 13 53-0224	EA	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	386.64	68.63
33 14 13 53-0225	EA	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	507.82	94.67
33 14 13 53-0226	EA	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	659.61	111.24
33 14 13 53-0227	EA	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,042.22	125.44
33 14 13 53-0228	EA	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,164.08	142.00

33 14 13 53-0229 Steel Body, Flanged Coupling Adapter *(33 14 13 53)*

33 14 13 53-0230	EA	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	453.58	54.43
33 14 13 53-0231	EA	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	535.79	68.63
33 14 13 53-0232	EA	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	715.00	94.67
33 14 13 53-0233	EA	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	875.23	111.24
33 14 13 53-0234	EA	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,069.88	125.44
33 14 13 53-0235	EA	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,247.26	142.00
33 14 13 53-0236	EA	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,483.45	156.20
33 14 13 53-0237	EA	16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,758.81	170.41
33 14 13 53-0238	EA	18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,078.88	187.45
33 14 13 53-0239	EA	20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,458.65	206.18

33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters *(33 14 13 53)*

33 14 13 53-0241	EA	4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	396.33	68.63
33 14 13 53-0242	EA	6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	531.75	94.67
33 14 13 53-0243	EA	8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	588.00	111.24
33 14 13 53-0244	EA	10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	863.19	125.44
33 14 13 53-0245	EA	12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,101.67	142.00
33 14 13 53-0246	EA	14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,236.01	156.20
33 14 13 53-0247	EA	16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,454.59	170.41
33 14 13 53-0248	EA	18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,632.86	187.45
33 14 13 53-0249	EA	20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,964.79	206.18
33 14 13 53-0250	EA	24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,369.56	226.82
33 14 13 53-0251	EA	30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	4,963.41	249.45
33 14 13 53-0252	EA	36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	6,706.39	274.45

33 14 13 53-0253 Ductile Iron Body, Omni Coupling System *(33 14 13 53)*

33 14 13 53-0254	EA	2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	137.87	37.86
33 14 13 53-0255	EA	2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	170.27	44.97
33 14 13 53-0256	EA	3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	210.95	54.43
33 14 13 53-0257	EA	4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	264.88	68.63
33 14 13 53-0258	EA	6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	353.00	94.67
33 14 13 53-0259	EA	8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	429.36	111.24
33 14 13 53-0260	EA	10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	538.11	125.44
33 14 13 53-0261	EA	12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	629.88	142.00
33 14 13 53-0262	EA	14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	891.01	156.20
33 14 13 53-0263	EA	16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,114.59	170.41

33 14 19 Valves and Hydrants for Water Utility Service *(33 14)*

Note: Flanged valves excludes bolt and gasket set. See CSI section 23 21 13 23-0669 for bolt and gasket sets.

33 14 19 00-0001 Accessories For Valves *(33 14 19)*

33 14 19 00-0002	EA	1' Valve Extension Stem	87.03	
	For Each Additional LF, Add		*6.07*	
33 14 19 00-0003	EA	Up to 80" Long Indicator Post Telescoping Barrel Assembly Note: Excludes valve.	1,099.09	93.34
33 14 19 00-0004	EA	>80" To 114" Long Indicator Post Telescoping Barrel Assembly Note: Excludes valve.	1,245.17	102.67
33 14 19 00-0005	EA	Adjust Water Valve Box To Grade	93.34	

33 14 19 00-0006 Roadway Or Curb Valve Boxes *(33 14 19)*

33 14 19 00-0007 Round Head, Cast Iron Service, Roadway Or Valve Boxes *(33 14 19 00-0006)*

33 14 19 00-0008	EA	36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box Note: Includes cover, top section and bottom section.	187.06	12.32

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0009	EA	36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box Note: Includes cover, top section and bottom section.	216.93	12.32
33 14 19 00-0010	EA	42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box Note: Includes cover, top section and bottom section.	218.31	12.32
33 14 19 00-0011	EA	9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	56.70	6.16
33 14 19 00-0012	EA	16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	64.61	6.16
33 14 19 00-0013	EA	24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	76.51	6.16
33 14 19 00-0014	EA	36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box Note: Includes cover, top section and bottom section.	281.47	15.40
33 14 19 00-0015	EA	45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section, bottom section and #6 round base.	486.52	21.56
33 14 19 00-0016	EA	45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section, bottom section and #6 round base.	542.24	21.56
33 14 19 00-0017	EA	24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section and bottom section.	292.52	15.40
33 14 19 00-0018	EA	36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section and bottom section.	305.83	15.40
33 14 19 00-0019	EA	24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box Note: Includes cover, top section and bottom section.	295.66	15.40
33 14 19 00-0020	EA	12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	107.27	6.16
33 14 19 00-0021	EA	18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes	181.73	25.34
33 14 19 00-0022	EA	22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes	187.78	26.35
33 14 19 00-0023	EA	30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes	208.97	27.36
33 14 19 00-0024	EA	36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box	285.58	28.89
33 14 19 00-0025	EA	48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes	343.89	30.41
33 14 19 00-0026	EA	18" Cast Iron Service Box Extension Section	80.30	

33 14 19 00-0027 Plastic Roadway Grade Water Meter Box And Cover *(33 14 19 00-0006)*

33 14 19 00-0028	EA	12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	252.69	35.47
33 14 19 00-0029	EA	9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	189.88	25.34
33 14 19 00-0030	EA	Cast Iron Lid For Plastic Meter Box	56.31	

33 14 19 00-0031 Traffic Valve Box And Lid *(33 14 19 00-0006)*

33 14 19 00-0032	EA	10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	159.25	
33 14 19 00-0033	EA	14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12)	482.52	

33 14 19 00-0034 Roadway Utility Box *(33 14 19)*

33 14 19 00-0035 Utility Box *(33 14 19 00-0034)*

Note: Christy Concrete Products.

33 14 19 00-0036 B3 Utility Box, 9-3/8" x 15-1/2" *(33 14 19 00-0035)*

33 14 19 00-0037	EA	9-3/8" x 15-1/2" Precast Concrete Utility Box	90.34	46.29
33 14 19 00-0038	EA	Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box	83.31	5.15
33 14 19 00-0039	EA	Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	35.98	5.15
33 14 19 00-0040	EA	Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box	179.54	5.15
33 14 19 00-0041	EA	12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	52.29	10.29
33 14 19 00-0042	EA	3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	73.20	10.29

33 14 19 00-0043 B9 Utility Box, 10-1/4" x 17-1/4" *(33 14 19 00-0035)*

33 14 19 00-0044	EA	10-1/4" x 17-1/4" Precast Concrete Utility Box	110.79	61.72
33 14 19 00-0045	EA	Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box	97.65	6.17
33 14 19 00-0046	EA	Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	40.12	6.17
33 14 19 00-0047	EA	Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box	188.24	5.15
33 14 19 00-0048	EA	13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box	58.04	10.29
33 14 19 00-0049	EA	5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	78.45	15.43
33 14 19 00-0050	EA	12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box	97.28	28.29

33 14 19 00-0051 B12 Utility Box, 12" x 20" *(33 14 19 00-0035)*

33 14 19 00-0052	EA	12" x 20" Precast Concrete Utility Box	121.59	66.86
33 14 19 00-0053	EA	Cast Iron Lid For 12" x 20" Utility Box	174.36	7.72
33 14 19 00-0054	EA	Reinforced Concrete Lid For 12" x 20" Utility Box	54.68	10.29
33 14 19 00-0055	EA	Steel Checkered Plate Cover For 12" x 20" Utility Box	254.64	10.29
33 14 19 00-0056	EA	12" High Reinforced Concrete Extension For 12" x 20" Utility Box	126.46	36.00

33 14 19 00-0057 B16 Utility Box, 12" x 22-1/4" *(33 14 19 00-0035)*

33 14 19 00-0058	EA	12" x 22-1/4" Precast Concrete Utility Box	140.22	78.18
33 14 19 00-0059	EA	Cast Iron Lid For 12" x 22-1/4" Utility Box	197.69	10.29
33 14 19 00-0060	EA	Reinforced Concrete Lid For 12" x 22-1/4" Utility Box	66.54	10.29
33 14 19 00-0061	EA	Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	256.05	10.29
33 14 19 00-0062	EA	16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box	94.74	17.49
33 14 19 00-0063	EA	12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box	128.43	36.00

33 14 19 00-0064 B30 Utility Box, 13-1/4" x 24" *(33 14 19 00-0035)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0065	EA	13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX)	168.58	92.58
33 14 19 00-0066	EA	Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D)	90.75	16.46
33 14 19 00-0067	EA	Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G)	316.83	13.37
33 14 19 00-0068	EA	16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL)	94.74	17.49
33 14 19 00-0069	EA	5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA)	146.01	28.81
33 14 19 00-0070	EA	6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6)	112.76	19.54
33 14 19 00-0071	EA	12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12)	166.25	46.29

33 14 19 00-0072 B36 Utility Box, 17-1/4" x 30" *(33 14 19 00-0035)*

33 14 19 00-0073	EA	17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX)	219.51	117.27
33 14 19 00-0074	EA	Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	148.50	28.29
33 14 19 00-0075	EA	Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D)	398.35	19.54
33 14 19 00-0076	EA	20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL)	138.76	37.03
33 14 19 00-0077	EA	6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	225.58	41.14
33 14 19 00-0078	EA	12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12)	221.06	59.66

33 14 19 00-0079 B40 Utility Box, 24-1/2" x 36" *(33 14 19 00-0035)*

33 14 19 00-0080	EA	24-1/2" x 36" Precast Concrete Utility Box	440.95	181.05
33 14 19 00-0081	EA	Reinforced Concrete Lid For 24-1/2" x 36" Utility Box	402.27	67.89
33 14 19 00-0082	EA	Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box	566.70	29.83
33 14 19 00-0083	EA	30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	332.45	63.78
33 14 19 00-0084	EA	10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	352.38	66.86

33 14 19 00-0085 B48 Utility Box, 30-1/4" x 48-1/4" *(33 14 19 00-0035)*

33 14 19 00-0086	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box	566.82	205.73
33 14 19 00-0087	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	562.45	112.12
33 14 19 00-0088	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	696.62	112.12
33 14 19 00-0089	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box	898.98	51.44
33 14 19 00-0090	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box	502.95	138.87
33 14 19 00-0091	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box	440.24	93.61

33 14 19 00-0092 Water Utility Distribution Valves *(33 14 19)*

33 14 19 00-0093 Angle Valves *(33 14 19 00-0092)*

Note: For connecting meters to water service.

33 14 19 00-0094 Threaded, Class 150, Bronze Angle Valve *(33 14 19 00-0093)*

Note: Nibco T-335Y

33 14 19 00-0095	EA	1/2" Threaded, Class 150, Bronze Angle Valve	93.25	16.22
33 14 19 00-0096	EA	3/4" Threaded, Class 150, Bronze Angle Valve	125.75	21.79
33 14 19 00-0097	EA	1" Threaded, Class 150, Bronze Angle Valve	169.63	26.86
33 14 19 00-0098	EA	1-1/4" Threaded, Class 150, Bronze Angle Valve	218.46	33.74
33 14 19 00-0099	EA	1-1/2" Threaded, Class 150, Bronze Angle Valve	273.07	39.01
33 14 19 00-0100	EA	2" Threaded, Class 150, Bronze Angle Valve	408.34	45.61
33 14 19 00-0101	EA	2-1/2" Threaded, Class 150, Bronze Angle Valve	654.98	62.26
33 14 19 00-0102	EA	3" Threaded, Class 150, Bronze Angle Valve	996.11	71.87

33 14 19 00-0103 Butterfly Valves *(33 14 19 00-0092)*

33 14 19 00-0104 Lug Type Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valves *(33 14 19 00-0103)*

33 14 19 00-0105	EA	3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	1,873.55	172.29
33 14 19 00-0106	EA	3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,087.23	172.29
33 14 19 00-0107	EA	4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,011.40	266.68
33 14 19 00-0108	EA	4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,225.07	266.68
33 14 19 00-0109	EA	6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,319.29	324.78
33 14 19 00-0110	EA	6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,532.96	324.78
33 14 19 00-0111	EA	8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,626.51	415.00
33 14 19 00-0112	EA	8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,840.18	415.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0113	EA	10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	3,289.54	505.21
33 14 19 00-0114	EA	10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	3,289.54	505.21
33 14 19 00-0115	EA	12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	3,762.47	612.36
33 14 19 00-0116	EA	12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	3,976.14	612.36
33 14 19 00-0117	EA	14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12)	5,158.89	873.03
33 14 19 00-0118	EA	14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12)	5,721.60	873.03
33 14 19 00-0119	EA	16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16)	5,989.57	960.34
33 14 19 00-0120	EA	16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20)	6,680.93	960.34
33 14 19 00-0121	EA	18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24)	7,479.76	1,065.10
33 14 19 00-0122	EA	18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24)	8,205.79	1,065.10
33 14 19 00-0123	EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24)	8,465.56	1,200.42
33 14 19 00-0124	EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24)	9,191.59	1,200.42
33 14 19 00-0125	EA	24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-HD30)	13,919.05	1,473.25
33 14 19 00-0126	EA	24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-CW20)	13,968.27	1,473.25
33 14 19 00-0127	EA	30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	29,594.16	2,328.75
33 14 19 00-0128	EA	36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	34,896.09	3,105.00
33 14 19 00-0129	EA	42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32)	44,054.56	4,657.49
33 14 19 00-0130	EA	48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24)	59,897.62	5,821.87

33 14 19 00-0131 Check Valves *(33 14 19 00-0092)*

33 14 19 00-0132 Flanged, Swing Type Gravity Operated Check Valves *(33 14 19 00-0131)*

Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.

33 14 19 00-0133	EA	2-1/2" Flanged, Swing Type Gravity Operated Check Valve	782.41	135.34
33 14 19 00-0134	EA	3" Flanged, Swing Type Gravity Operated Check Valve	811.29	158.68
33 14 19 00-0135	EA	4" Flanged, Swing Type Gravity Operated Check Valve	1,154.50	200.68
33 14 19 00-0136	EA	4" x 6" Flanged, Swing Type Gravity Operated Check Valve	1,560.80	301.95
33 14 19 00-0137	EA	4" x 8" Flanged, Swing Type Gravity Operated Check Valve	1,628.98	337.22
33 14 19 00-0138	EA	6" Flanged, Swing Type Gravity Operated Check Valve	1,558.28	336.02
33 14 19 00-0139	EA	6" x 8" Flanged, Swing Type Gravity Operated Check Valve	2,016.94	381.96
33 14 19 00-0140	EA	6" x 10" Flanged, Swing Type Gravity Operated Check Valve	2,114.25	429.36
33 14 19 00-0141	EA	8" Flanged, Swing Type Gravity Operated Check Valve	2,197.23	429.36
33 14 19 00-0142	EA	10" Flanged, Swing Type Gravity Operated Check Valve	3,638.80	522.70
33 14 19 00-0143	EA	12" Flanged, Swing Type Gravity Operated Check Valve	5,457.31	392.03
33 14 19 00-0144	EA	14" Flanged, Swing Type Gravity Operated Check Valve	7,701.15	873.03
33 14 19 00-0145	EA	16" Flanged, Swing Type Gravity Operated Check Valve	10,158.89	960.34
33 14 19 00-0146	EA	18" Flanged, Swing Type Gravity Operated Check Valve	14,599.88	1,065.10
33 14 19 00-0147	EA	20" Flanged, Swing Type Gravity Operated Check Valve	16,981.43	1,200.42

33 14 19 00-0148 Combination Air Release Valves *(33 14 19 00-0092)*

33 14 19 00-0149	EA	1" Combination Air Release Valve	436.55	19.60
33 14 19 00-0150	EA	2" Combination Air Release Valve	705.48	33.60

33 14 19 00-0151 Corporation Stop And Curb Valve *(33 14 19 00-0092)*

Note: AWWA C800

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0152		**Ball Corporation Valves** *(33 14 19 00-0151)* Note: Mueller B-25000.		
33 14 19 00-0153	EA	3/4" Ball Corporation Valve (Mueller B-25000)	74.09	19.60
33 14 19 00-0154	EA	1" Ball Corporation Valve (Mueller B-25000)	93.05	24.27
33 14 19 00-0155	EA	1-1/2" Ball Corporation Valve (Mueller B-25000)	166.17	35.47
33 14 19 00-0156	EA	2" Ball Corporation Valve (Mueller B-25000)	249.65	42.00
33 14 19 00-0157		**Gate Valve, AWWA C500 And C509** *(33 14 19 00-0092)*		
33 14 19 00-0158		**Gate Valve, Flanged** *(33 14 19 00-0157)* Note: Mueller A-2380-6.		
33 14 19 00-0159	EA	2" Gate Valve, Flanged	501.24	124.42
33 14 19 00-0160	EA	2-1/2" Gate Valve, Flanged	582.47	135.34
33 14 19 00-0161	EA	3" Gate Valve, Flanged	688.43	158.68
33 14 19 00-0162	EA	4" Gate Valve, Flanged	945.00	198.81
33 14 19 00-0163	EA	6" Gate Valve, Flanged	1,153.26	336.02
33 14 19 00-0164	EA	8" Gate Valve, Flanged	1,676.83	429.36
33 14 19 00-0165	EA	10" Gate Valve, Flanged	2,470.45	522.70
33 14 19 00-0166	EA	12" Gate Valve, Flanged	2,977.92	392.03
33 14 19 00-0167	EA	14" Gate Valve, Flanged	6,330.83	873.03
33 14 19 00-0168	EA	16" Gate Valve, Flanged	8,201.97	960.34
33 14 19 00-0169	EA	18" Gate Valve, Flanged	12,791.71	1,065.10
33 14 19 00-0170	EA	20" Gate Valve, Flanged	15,264.61	1,200.42
33 14 19 00-0171		**Resilient Wedge Gate Valve, Flanged** *(33 14 19 00-0157)* Note: Mueller A-2360-6.		
33 14 19 00-0172	EA	2" Resilient Wedge Gate Valve, Flanged	481.69	124.42
33 14 19 00-0173	EA	2-1/2" Resilient Wedge Gate Valve, Flanged	559.11	135.34
33 14 19 00-0174	EA	3" Resilient Wedge Gate Valve, Flanged	660.70	158.68
33 14 19 00-0175	EA	4" Resilient Wedge Gate Valve, Flanged	914.01	198.81
33 14 19 00-0176	EA	6" Resilient Wedge Gate Valve, Flanged	1,111.83	336.02
33 14 19 00-0177	EA	8" Resilient Wedge Gate Valve, Flanged	1,612.11	429.36
33 14 19 00-0178	EA	10" Resilient Wedge Gate Valve, Flanged	2,367.61	522.70
33 14 19 00-0179	EA	12" Resilient Wedge Gate Valve, Flanged	2,853.75	392.03
33 14 19 00-0180		**Gate Valve, Mechanical Joint** *(33 14 19 00-0157)* Note: Mueller A-2380-20.		
33 14 19 00-0181	EA	2" Gate Valve, Mechanical Joint	593.19	99.40
33 14 19 00-0182	EA	2-1/2" Gate Valve, Mechanical Joint	654.01	124.61
33 14 19 00-0183	EA	3" Gate Valve, Mechanical Joint	817.85	150.74
33 14 19 00-0184	EA	4" Gate Valve, Mechanical Joint	988.27	198.81
33 14 19 00-0185	EA	6" Gate Valve, Mechanical Joint	1,231.25	233.35
33 14 19 00-0186	EA	8" Gate Valve, Mechanical Joint	1,749.48	280.02
33 14 19 00-0187	EA	10" Gate Valve, Mechanical Joint	2,501.84	326.69
33 14 19 00-0188	EA	12" Gate Valve, Mechanical Joint	3,120.44	392.03
33 14 19 00-0189	EA	14" Gate Valve, Mechanical Joint	6,697.69	534.74
33 14 19 00-0190	EA	16" Gate Valve, Mechanical Joint	8,600.17	600.21
33 14 19 00-0191	EA	18" Gate Valve, Mechanical Joint	13,505.02	665.69
33 14 19 00-0192	EA	20" Gate Valve, Mechanical Joint	16,034.18	750.27
33 14 19 00-0193		**Resilient Wedge Gate Valve, Mechanical Joint** *(33 14 19 00-0157)* Note: Mueller A-2360-20.		
33 14 19 00-0194	EA	2" Resilient Wedge Gate Valve, Mechanical Joint	570.87	99.40
33 14 19 00-0195	EA	3" Resilient Wedge Gate Valve, Mechanical Joint	788.62	150.74
33 14 19 00-0196	EA	4" Resilient Wedge Gate Valve, Mechanical Joint	954.83	198.81
33 14 19 00-0197	EA	6" Resilient Wedge Gate Valve, Mechanical Joint	1,187.98	233.35
33 14 19 00-0198	EA	8" Resilient Wedge Gate Valve, Mechanical Joint	1,682.16	280.02
33 14 19 00-0199	EA	10" Resilient Wedge Gate Valve, Mechanical Joint	2,397.21	326.69
33 14 19 00-0200	EA	12" Resilient Wedge Gate Valve, Mechanical Joint	2,988.17	392.03
33 14 19 00-0201		**Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint** *(33 14 19 00-0157)* Note: Mueller A-2361.		
33 14 19 00-0202	EA	14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	5,530.57	873.03
33 14 19 00-0203	EA	16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	6,016.74	960.34
33 14 19 00-0204	EA	18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	9,213.56	1,065.10
33 14 19 00-0205	EA	20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	10,969.39	1,200.42
33 14 19 00-0206	EA	24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	15,490.36	1,473.25
33 14 19 00-0207		**Gate Valve, Threaded, WW-V-51 Class A, Type 1** *(33 14 19 00-0157)* Note: NIBCO T-113.		
33 14 19 00-0208	EA	1/4" Gate Valve, Bronze, Threaded	53.93	16.32
33 14 19 00-0209	EA	3/8" Gate Valve, Bronze, Threaded	55.48	16.32
33 14 19 00-0210	EA	1/2" Gate Valve, Bronze, Threaded	54.81	16.32
33 14 19 00-0211	EA	3/4" Gate Valve, Bronze, Threaded	70.40	22.04
33 14 19 00-0212	EA	1" Gate Valve, Bronze, Threaded	86.89	26.66

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0213	EA	1-1/4" Gate Valve, Bronze, Threaded	118.51	33.74
33 14 19 00-0214	EA	1-1/2" Gate Valve, Bronze, Threaded	137.55	39.01
33 14 19 00-0215	EA	2" Gate Valve, Bronze, Threaded	167.10	45.61
33 14 19 00-0216	EA	2-1/2" Gate Valve, Bronze, Threaded	326.28	62.26
33 14 19 00-0217	EA	3" Gate Valve, Bronze, Threaded	391.57	71.41

33 14 19 00-0218 Globe Valve, AWWA *(33 14 19 00-0092)*

33 14 19 00-0219 Globe Valve, Threaded, WW-V-51 Class B, Type 1 *(33 14 19 00-0218)*

Note: NIBCO T-235.

33 14 19 00-0220	EA	1/8" Globe Valve, Threaded	77.04	16.32
33 14 19 00-0221	EA	1/4" Globe Valve, Threaded	73.91	16.32
33 14 19 00-0222	EA	3/8" Globe Valve, Threaded	75.46	16.32
33 14 19 00-0223	EA	1/2" Globe Valve, Threaded	77.04	16.32
33 14 19 00-0224	EA	3/4" Globe Valve, Threaded	104.63	22.04
33 14 19 00-0225	EA	1" Globe Valve, Threaded	147.50	26.66
33 14 19 00-0226	EA	1-1/4" Globe Valve, Threaded	216.47	33.74
33 14 19 00-0227	EA	1-1/2" Globe Valve, Threaded	258.63	39.01
33 14 19 00-0228	EA	2" Globe Valve, Threaded	362.24	45.61
33 14 19 00-0229	EA	2-1/2" Globe Valve, Threaded	668.41	62.26
33 14 19 00-0230	EA	3" Globe Valve, Threaded	917.26	71.78

33 14 19 00-0231 Tapping Valve, AWWA C500 And C509 *(33 14 19 00-0092)*

33 14 19 00-0232 Tapping Valve, AWWA C500 And C509 *(33 14 19 00-0231)*

Note: Flanged inlet X mechanical joint, Mueller H-667.

33 14 19 00-0233	EA	2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	687.61	124.42
33 14 19 00-0234	EA	3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	885.35	158.68
33 14 19 00-0235	EA	4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,135.22	198.81
33 14 19 00-0236	EA	6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,443.94	336.02
33 14 19 00-0237	EA	8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,049.63	429.36
33 14 19 00-0238	EA	10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,923.49	522.70
33 14 19 00-0239	EA	12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	4,253.59	392.03
33 14 19 00-0240	EA	14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	7,642.98	873.03
33 14 19 00-0241	EA	16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	9,591.43	960.34
33 14 19 00-0242	EA	18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	15,255.45	1,065.10

33 14 19 00-0243 Fire Hydrants *(33 14 19)*

Note: Breakaway type.

33 14 19 00-0244 Three Way, Standard (Traditional) Model Fire Hydrant *(33 14 19 00-0243)*

Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).

33 14 19 00-0245	EA	1-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,533.51	252.60
33 14 19 00-0246	EA	2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,600.02	252.60
33 14 19 00-0247	EA	2-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,666.70	252.60
33 14 19 00-0248	EA	3' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,751.11	270.65
33 14 19 00-0249	EA	3-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,817.69	270.65
33 14 19 00-0250	EA	4' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,906.88	293.20
33 14 19 00-0251	EA	4-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,973.35	293.20
33 14 19 00-0252	EA	5' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,062.57	315.76
33 14 19 00-0253	EA	5-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,129.14	315.76
33 14 19 00-0254	EA	6' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,218.16	338.31
33 14 19 00-0255	EA	6-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,307.26	360.86
33 14 19 00-0256	EA	7' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,418.82	405.97
33 14 19 00-0257	EA	1-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,594.21	252.60
33 14 19 00-0258	EA	2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,680.52	252.60
33 14 19 00-0259	EA	2-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,766.62	252.60
33 14 19 00-0260	EA	3' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,870.77	270.65
33 14 19 00-0261	EA	3-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,956.87	270.65
33 14 19 00-0262	EA	4' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,065.84	293.20
33 14 19 00-0263	EA	4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,151.83	293.20
33 14 19 00-0264	EA	5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,260.58	315.76
33 14 19 00-0265	EA	5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,346.66	315.76
33 14 19 00-0266	EA	6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,455.16	338.31
33 14 19 00-0267	EA	6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,564.02	360.86
33 14 19 00-0268	EA	7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,695.08	405.97

33 14 19 00-0269 Two Way, Standard (Traditional) Model Fire Hydrant *(33 14 19 00-0243)*

Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).

33 14 19 00-0270	EA	1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,168.43	252.60
33 14 19 00-0271	EA	2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,234.71	252.60
33 14 19 00-0272	EA	2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,301.37	252.60
33 14 19 00-0273	EA	3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,386.06	270.65
33 14 19 00-0274	EA	3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,452.42	270.65
33 14 19 00-0275	EA	4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,541.46	293.20
33 14 19 00-0276	EA	4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,608.03	293.20
33 14 19 00-0277	EA	5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,697.31	315.76
33 14 19 00-0278	EA	5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,763.74	315.76

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0279	EA	6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,853.12	338.31
33 14 19 00-0280	EA	6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,941.80	360.86
33 14 19 00-0281	EA	7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,053.50	405.97
33 14 19 00-0282	EA	1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,262.19	252.60
33 14 19 00-0283	EA	2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,348.31	252.60
33 14 19 00-0284	EA	2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,434.30	252.60
33 14 19 00-0285	EA	3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,538.67	270.65
33 14 19 00-0286	EA	3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,624.55	270.65
33 14 19 00-0287	EA	4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,733.37	293.20
33 14 19 00-0288	EA	4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,819.30	293.20
33 14 19 00-0289	EA	5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,928.33	315.76
33 14 19 00-0290	EA	5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,014.21	315.76
33 14 19 00-0291	EA	6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,123.01	338.31
33 14 19 00-0292	EA	6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,231.45	360.86
33 14 19 00-0293	EA	7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,362.98	405.97

33 14 19 00-0294 Three Way, Modern Model Fire Hydrant *(33 14 19 00-0243)*

Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).

33 14 19 00-0295	EA	1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	3,688.73	252.60
33 14 19 00-0296	EA	2' Burial Section, Three Way, Modern Type Fire Hydrant	3,774.72	252.60
33 14 19 00-0297	EA	2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	3,860.97	252.60
33 14 19 00-0298	EA	3' Burial Section, Three Way, Modern Type Fire Hydrant	3,965.17	270.65
33 14 19 00-0299	EA	3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,051.22	270.65
33 14 19 00-0300	EA	4' Burial Section, Three Way, Modern Type Fire Hydrant	4,159.87	293.20
33 14 19 00-0301	EA	4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,246.04	293.20
33 14 19 00-0302	EA	5' Burial Section, Three Way, Modern Type Fire Hydrant	4,354.72	315.76
33 14 19 00-0303	EA	5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,440.80	315.76
33 14 19 00-0304	EA	6' Burial Section, Three Way, Modern Type Fire Hydrant	4,549.45	315.76
33 14 19 00-0305	EA	6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,658.36	360.86
33 14 19 00-0306	EA	7' Burial Section, Three Way, Modern Type Fire Hydrant	4,788.52	360.86

33 14 19 00-0307 Two Way, Modern Model Fire Hydrant *(33 14 19 00-0243)*

Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).

33 14 19 00-0308	EA	1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,610.47	252.60
33 14 19 00-0309	EA	2' Burial Section, Two Way, Modern Type Fire Hydrant	2,675.91	252.60
33 14 19 00-0310	EA	2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,742.08	252.60
33 14 19 00-0311	EA	3' Burial Section, Two Way, Modern Type Fire Hydrant	2,824.80	270.65
33 14 19 00-0312	EA	3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,890.22	270.65
33 14 19 00-0313	EA	4' Burial Section, Two Way, Modern Type Fire Hydrant	2,978.19	293.20
33 14 19 00-0314	EA	4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,043.59	293.20
33 14 19 00-0315	EA	5' Burial Section, Two Way, Modern Type Fire Hydrant	3,131.65	315.76
33 14 19 00-0316	EA	5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,196.88	315.76
33 14 19 00-0317	EA	6' Burial Section, Two Way, Modern Type Fire Hydrant	3,284.87	338.31
33 14 19 00-0318	EA	6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,372.93	360.86
33 14 19 00-0319	EA	7' Burial Section, Two Way, Modern Type Fire Hydrant	3,482.65	405.97

33 14 19 00-0320 Fire Hydrant Extension Kits *(33 14 19 00-0243)*

33 14 19 00-0321	EA	6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	537.42	22.55
33 14 19 00-0322	EA	12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	637.52	28.19
33 14 19 00-0323	EA	18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	693.09	33.84
33 14 19 00-0324	EA	24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	785.40	41.73
33 14 19 00-0325	EA	30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,200.39	43.42
33 14 19 00-0326	EA	36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,283.01	45.11
33 14 19 00-0327	EA	42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,301.37	47.36
33 14 19 00-0328	EA	48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,374.00	50.74
33 14 19 00-0329	EA	54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,511.15	60.90
33 14 19 00-0330	EA	60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,588.06	73.30
33 14 19 00-0331	EA	6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	598.04	25.27
33 14 19 00-0332	EA	12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	706.90	30.68
33 14 19 00-0333	EA	18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	810.07	36.98
33 14 19 00-0334	EA	24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	902.35	46.01
33 14 19 00-0335	EA	30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,246.70	47.82
33 14 19 00-0336	EA	36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,330.31	49.62
33 14 19 00-0337	EA	42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,386.96	52.33
33 14 19 00-0338	EA	48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,625.95	55.93
33 14 19 00-0339	EA	54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,777.78	66.76
33 14 19 00-0340	EA	60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,860.40	80.29

33 14 19 00-0341 Remove And Reinstall Standard Fire Hydrant *(33 14 19 00-0243)*

Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.

33 14 19 00-0342	EA	Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant	721.73
33 14 19 00-0343	EA	>5' Burial Section, Removal And Reinstallation Of Fire Hydrant	1,052.52
33 14 19 00-0344	EA	Reset Fire Hydrant Upper Barrel Note: Includes Safety Repair Kit	924.86

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0345		Yard Hydrants *(33 14 19)*		
		Note: With 3/4" hose thread outlet.		
33 14 19 00-0346	EA	2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	339.63	30.41
33 14 19 00-0347	EA	4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	365.79	30.41
33 14 19 00-0348	EA	6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	391.95	30.41
33 14 19 00-0349	EA	2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	258.07	38.51
33 14 19 00-0350	EA	4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	269.27	38.51
33 14 19 00-0351	EA	6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	280.48	38.51
33 14 19 00-0352		Sanitary Yard Hydrants *(33 14 19)*		
		Note: With 3/4" hose thread outlet.		
33 14 19 00-0353	EA	2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	1,572.36	63.35
33 14 19 00-0354	EA	4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	1,654.13	63.35
33 14 19 00-0355	EA	6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	1,735.89	63.35
33 14 19 00-0356		Flushing Hydrants *(33 14 19)*		
33 14 19 00-0357	EA	2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	584.26	39.09

33 14 23 Enclosures for Water Utility Piping and Valves *(33 14)*

See CSI section 22 11 19 00-0464 for Enclosures.

33 16 Water Utility Storage Tanks *(33 10)*

33 16 23 Ground-Level Steel Water Storage Tanks *(33 16)*

See CSI section 23 13 23 16-0000 for aboveground steel storage tanks.

33 19 Water Utility Metering Equipment *(33 10)*

33 19 13 Positive Displacement Water Meters *(33 19)*

33 19 13 23 Nutating Disc Water Meters *(33 19 13)*

33 19 13 23-0001		Bronze Disk Type Water Service Meters *(33 19 13 23)*		
33 19 13 23-0002	EA	5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter	296.62	52.70
33 19 13 23-0003	EA	3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter	373.38	62.83
33 19 13 23-0004	EA	1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter	503.22	71.95
33 19 13 23-0005	EA	1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter	983.83	107.43
33 19 13 23-0006	EA	2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,333.81	139.86
33 19 13 23-0007		Magnetic Driven, Positive Displacement Type Water Service Meters *(33 19 13 23)*		
33 19 13 23-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i)	383.65	52.70
		For Owner Furnished Material, Deduct	*-330.31*	
33 19 13 23-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)	438.05	62.83
		For Owner Furnished Material, Deduct	*-374.70*	
33 19 13 23-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)	647.32	71.95
		For Owner Furnished Material, Deduct	*-574.93*	
33 19 13 23-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)	1,092.20	107.43
		For Owner Furnished Material, Deduct	*-984.39*	
33 19 13 23-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i)	1,353.82	139.86
		For Owner Furnished Material, Deduct	*-1,213.06*	
33 19 13 23-0013	EA	Electronic Transmitter	306.85	25.34
		Note: For use with transmitting meter valve.		
		For Owner Furnished Material, Deduct	*-281.51*	

33 19 16 Velocity-Type Water Meters *(33 19)*

33 19 16 23 Turbine Water Meters *(33 19 16)*

33 19 16 23-0001		Flanged Turbine Water Service Meter *(33 19 16 23)*		
33 19 16 23-0002		Vertical Turbine Meters *(33 19 16 23-0001)*		
33 19 16 23-0003	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	568.61	98.01
33 19 16 23-0004	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged	791.00	124.42
33 19 16 23-0005	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged	1,322.83	158.68
33 19 16 23-0006	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged	2,038.08	300.55
33 19 16 23-0007	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged	3,745.37	336.02
33 19 16 23-0008		Horizontal Turbine Meters *(33 19 16 23-0001)*		
33 19 16 23-0009	EA	1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	865.80	98.01
33 19 16 23-0010	EA	2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged	1,215.28	124.42
33 19 16 23-0011	EA	3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged	1,492.93	158.68
33 19 16 23-0012	EA	4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged	2,262.93	300.55
33 19 16 23-0013	EA	6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged	4,564.60	336.02
33 19 16 23-0014	EA	8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged	6,107.65	429.36
33 19 16 23-0015	EA	10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged	8,540.65	522.70
33 19 16 23-0016	EA	12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged	10,959.66	1,054.73

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 19 19 Compound Water Meters *(33 19)*

33 19 19 00-0001 Flanged Compound Type Water Service Meter *(33 19 19)*

33 19 19 00-0002	EA	2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	2,233.94	124.42
33 19 19 00-0003	EA	3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	2,609.35	158.68
33 19 19 00-0004	EA	4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	4,382.36	300.55
33 19 19 00-0005	EA	6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	6,038.82	336.02
33 19 19 00-0006	EA	8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	12,460.09	429.36
33 19 19 00-0007	EA	10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	21,378.49	522.70

33 19 23 Magnetic Water Meters *(33 19)*

33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter *(33 19 23)*

33 19 23 00-0002	EA	2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	5,613.50	124.42
33 19 23 00-0003	EA	3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	7,758.20	158.68
33 19 23 00-0004	EA	4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	8,929.61	300.55

33 30 Sanitary Sewerage Utilities *(33)*

33 31 Sanitary Sewerage Piping *(33 30)*

33 31 11 Public Sanitary Sewerage Gravity Piping *(33 31)*

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 31 11 00-0001 Cast Iron Service Saddles With U Bolt *(33 31 11)*

33 31 11 00-0002	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	106.33	
33 31 11 00-0003	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	106.88	
33 31 11 00-0004	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	117.68	
33 31 11 00-0005	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	113.80	
33 31 11 00-0006	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	128.30	
33 31 11 00-0007	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	144.17	
33 31 11 00-0008	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	170.72	
33 31 11 00-0009	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	144.29	
33 31 11 00-0010	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	157.72	
33 31 11 00-0011	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	182.00	
33 31 11 00-0012	EA	4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	116.86	
33 31 11 00-0013	EA	4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	127.65	
33 31 11 00-0014	EA	4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	151.32	
33 31 11 00-0015	EA	4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	179.51	
33 31 11 00-0016	EA	6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	192.95	

33 31 11 00-0017 Plastic Sewer And Drain Piping *(33 31 11)*

33 31 11 00-0018 Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe *(33 31 11 00-0017)*

33 31 11 00-0019	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	8.29	3.79
33 31 11 00-0020	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	9.90	4.48
33 31 11 00-0021	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	12.81	5.42
33 31 11 00-0022	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	15.48	6.33
33 31 11 00-0023	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	19.65	7.36
33 31 11 00-0024	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	24.80	8.56
33 31 11 00-0025	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	30.53	8.85
33 31 11 00-0026	LF	12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	37.18	9.17

33 31 11 00-0027 Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe *(33 31 11 00-0017)*

Note: D-2729 PVC pipe.

33 31 11 00-0028	LF	3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	11.86	5.42
33 31 11 00-0029	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.92	6.33
33 31 11 00-0030	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	17.20	7.36

33 31 11 00-0031 Polyvinyl Chloride (PVC) Sewer And Drain Fittings *(33 31 11 00-0017)*

33 31 11 00-0032 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0033	EA	1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	21.13	12.37
33 31 11 00-0034	EA	2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	27.22	15.99
33 31 11 00-0035	EA	3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	42.41	21.48
33 31 11 00-0036	EA	4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	58.72	24.83
33 31 11 00-0037	EA	6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	179.41	32.27
33 31 11 00-0038	EA	8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	289.44	43.43
33 31 11 00-0039	EA	10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	382.57	57.83

33 31 11 00-0040 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0041	EA	1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	21.73	12.37

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0042	EA	2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	27.17	15.99
33 31 11 00-0043	EA	3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	41.52	21.48
33 31 11 00-0044	EA	4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	54.37	24.83
33 31 11 00-0045	EA	6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	168.33	32.27
33 31 11 00-0046	EA	8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	263.68	43.43
33 31 11 00-0047	EA	10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	306.79	57.83
33 31 11 00-0048	EA	12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	448.73	77.03
33 31 11 00-0049		**Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain** *(33 31 11 00-0031)*		
33 31 11 00-0050	EA	1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	28.12	12.19
33 31 11 00-0051	EA	2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	31.37	15.99
33 31 11 00-0052	EA	3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	53.82	21.95
33 31 11 00-0053	EA	4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	81.24	26.78
33 31 11 00-0054	EA	6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	139.51	30.97
33 31 11 00-0055	EA	8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	227.63	35.34
33 31 11 00-0056	EA	10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	356.74	41.19
33 31 11 00-0057	EA	12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	526.37	48.02
33 31 11 00-0058		**1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain** *(33 31 11 00-0031)*		
33 31 11 00-0059	EA	1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	22.98	12.37
33 31 11 00-0060	EA	2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	28.45	15.99
33 31 11 00-0061	EA	3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	45.22	21.48
33 31 11 00-0062	EA	4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	61.24	24.83
33 31 11 00-0063	EA	6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	216.28	32.27
33 31 11 00-0064	EA	8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	343.11	43.43
33 31 11 00-0065	EA	10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	394.80	57.83
33 31 11 00-0066	EA	12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	419.40	77.03
33 31 11 00-0067		**Reducers, Polyvinyl Chloride (PVC) Sewer And Drain** *(33 31 11 00-0031)*		
33 31 11 00-0068	EA	2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	26.36	14.11
33 31 11 00-0069	EA	3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	41.72	16.85
33 31 11 00-0070	EA	3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	41.65	18.58
33 31 11 00-0071	EA	4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	57.71	20.31
33 31 11 00-0072	EA	4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	63.04	23.04
33 31 11 00-0073	EA	6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	158.26	28.52
33 31 11 00-0074	EA	8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	317.38	37.81
33 31 11 00-0075	EA	10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	104.42	41.29
33 31 11 00-0076	EA	10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	133.81	45.04
33 31 11 00-0077	EA	10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	132.74	50.58
33 31 11 00-0078	EA	12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	342.75	54.67
33 31 11 00-0079	EA	12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	364.08	60.21
33 31 11 00-0080	EA	12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain	388.62	67.43
33 31 11 00-0081		**Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain** *(33 31 11 00-0031)*		
33 31 11 00-0082	EA	1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	32.60	18.69
33 31 11 00-0083	EA	2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	42.78	24.18
33 31 11 00-0084	EA	3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	65.40	31.90
33 31 11 00-0085	EA	4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	92.78	39.61
33 31 11 00-0086	EA	6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	259.36	43.43
33 31 11 00-0087	EA	8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain	337.93	57.83
33 31 11 00-0088		**Wyes, Polyvinyl Chloride (PVC) Sewer And Drain** *(33 31 11 00-0031)*		
33 31 11 00-0089	EA	1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	37.20	18.69
33 31 11 00-0090	EA	2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	45.45	24.18
33 31 11 00-0091	EA	3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	68.81	31.90
33 31 11 00-0092	EA	4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	98.37	39.61
33 31 11 00-0093	EA	6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	238.38	43.43
33 31 11 00-0094	EA	8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	298.08	57.83
33 31 11 00-0095	EA	10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	392.97	77.18
33 31 11 00-0096	EA	12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	604.68	103.00
33 31 11 00-0097		**Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain** *(33 31 11 00-0031)*		
33 31 11 00-0098	EA	2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	44.43	18.69
33 31 11 00-0099	EA	2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	52.48	24.18
33 31 11 00-0100	EA	3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	64.06	31.90
33 31 11 00-0101	EA	4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	90.70	39.61
33 31 11 00-0102	EA	4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	95.95	39.61
33 31 11 00-0103		**Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain** *(33 31 11 00-0031)*		
33 31 11 00-0104	EA	1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	55.79	24.18
33 31 11 00-0105	EA	2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	73.07	31.90
33 31 11 00-0106	EA	3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	129.61	43.05

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0107	EA	4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	210.04	52.07
33 31 11 00-0108	EA	2" x 2" x 1-1/2" x 1-1/2 Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	70.89	31.90
33 31 11 00-0109	EA	3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	112.98	43.05
33 31 11 00-0110	EA	4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	182.58	52.07

33 31 11 00-0111 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0112	EA	1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	42.94	18.69
33 31 11 00-0113	EA	2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	54.41	24.18
33 31 11 00-0114	EA	3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	95.73	31.90
33 31 11 00-0115	EA	4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	158.73	39.61
33 31 11 00-0116	EA	2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	73.90	24.18
33 31 11 00-0117	EA	3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	113.38	31.90
33 31 11 00-0118	EA	3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	88.82	31.90
33 31 11 00-0119	EA	4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	150.46	39.61
33 31 11 00-0120	EA	4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	158.03	39.61

33 31 11 00-0121 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0122	EA	1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	60.25	24.18
33 31 11 00-0123	EA	2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	73.56	31.90
33 31 11 00-0124	EA	3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	109.17	43.05
33 31 11 00-0125	EA	4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	313.26	52.07
33 31 11 00-0126	EA	6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	940.12	57.65

33 31 11 00-0127 Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0128	EA	4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	296.58	100.69
33 31 11 00-0129	EA	6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	617.71	129.90
33 31 11 00-0130	EA	8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	801.16	183.05
33 31 11 00-0131	EA	10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,140.04	294.47

33 31 11 00-0132 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0133	EA	1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	20.84	12.37
33 31 11 00-0134	EA	2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	26.32	15.90
33 31 11 00-0135	EA	3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	38.44	21.30
33 31 11 00-0136	EA	4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	47.80	24.83
33 31 11 00-0137	EA	6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	106.93	32.27
33 31 11 00-0138	EA	8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	234.07	43.43
33 31 11 00-0139	EA	10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	348.64	57.83
33 31 11 00-0140	EA	12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	561.74	77.03

33 31 11 00-0141 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0142	EA	4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting	105.42	65.53
33 31 11 00-0143	EA	2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	77.11	49.85
33 31 11 00-0144	EA	2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	78.16	49.85
33 31 11 00-0145	EA	3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	80.94	49.85
33 31 11 00-0146	EA	4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	106.18	65.53
33 31 11 00-0147	EA	4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	103.96	65.53
33 31 11 00-0148	EA	4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	100.31	65.53
33 31 11 00-0149	EA	4" Drain Grate, Drain And Sewer Fitting	53.19	33.69

33 31 11 00-0150 Caps, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0151	EA	3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	26.34	13.30
33 31 11 00-0152	EA	4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	39.23	16.55
33 31 11 00-0153	EA	6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	66.57	21.39

33 31 11 00-0154 Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain *(33 31 11 00-0031)*

33 31 11 00-0155	EA	1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	19.82	12.37
33 31 11 00-0156	EA	2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	25.69	15.99
33 31 11 00-0157	EA	3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	36.39	21.48
33 31 11 00-0158	EA	4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	45.13	24.83
33 31 11 00-0159	EA	6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	69.38	32.27
33 31 11 00-0160	EA	8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	199.91	43.43

33 31 11 00-0161 Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe *(33 31 11 00-0017)*

Note: ASTM 3034.

33 31 11 00-0162	LF	4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	15.64	6.33
33 31 11 00-0163	LF	6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	20.42	7.36
33 31 11 00-0164	LF	8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	26.80	8.56
33 31 11 00-0165	LF	10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	32.24	8.85
33 31 11 00-0166	LF	12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	38.78	9.17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0167	LF	15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	49.66	9.49
33 31 11 00-0168	LF	18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	62.08	9.85
33 31 11 00-0169	LF	21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	79.84	10.68
33 31 11 00-0170	LF	24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	96.29	11.53
33 31 11 00-0171	LF	27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	119.42	13.53

33 31 11 00-0172 Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe *(33 31 11 00-0017)*

Note: ASTM 3034.

33 31 11 00-0173	LF	4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	15.01	6.33
33 31 11 00-0174	LF	6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	19.44	7.36
33 31 11 00-0175	LF	8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	25.37	8.56

33 31 11 00-0176 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings *(33 31 11 00-0017)*

Note: ASTM 3034.

33 31 11 00-0177 1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) *(33 31 11 00-0176)*

33 31 11 00-0178	EA	4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	67.17	23.05
33 31 11 00-0179	EA	6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	97.54	26.81
33 31 11 00-0180	EA	8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	197.15	30.37
33 31 11 00-0181	EA	10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	551.43	35.74
33 31 11 00-0182	EA	12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	712.40	45.56

33 31 11 00-0183 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) *(33 31 11 00-0176)*

33 31 11 00-0184	EA	4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	61.26	23.05
33 31 11 00-0185	EA	6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	91.03	26.81
33 31 11 00-0186	EA	8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	180.68	30.37
33 31 11 00-0187	EA	10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	396.34	35.74
33 31 11 00-0188	EA	12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	564.93	45.56
33 31 11 00-0189	EA	15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,202.16	64.32
33 31 11 00-0190	EA	18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,904.41	91.13
33 31 11 00-0191	EA	21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,169.08	120.61
33 31 11 00-0192	EA	24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	4,320.11	160.81

33 31 11 00-0193 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) *(33 31 11 00-0176)*

33 31 11 00-0194	EA	4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	101.58	34.58
33 31 11 00-0195	EA	6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	159.02	38.32
33 31 11 00-0196	EA	6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	177.96	40.20
33 31 11 00-0197	EA	8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	195.84	42.08
33 31 11 00-0198	EA	8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	223.18	43.95
33 31 11 00-0199	EA	8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	417.51	45.83
33 31 11 00-0200	EA	10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	531.68	46.90
33 31 11 00-0201	EA	10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	601.55	49.14
33 31 11 00-0202	EA	10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	882.69	51.01
33 31 11 00-0203	EA	10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,147.15	53.60
33 31 11 00-0204	EA	12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	654.05	57.09
33 31 11 00-0205	EA	12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	693.90	58.97
33 31 11 00-0206	EA	12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	984.11	60.84
33 31 11 00-0207	EA	12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,413.19	63.43
33 31 11 00-0208	EA	12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,591.77	68.34

33 31 11 00-0209 Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) *(33 31 11 00-0176)*

33 31 11 00-0210	EA	4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	97.00	34.58
33 31 11 00-0211	EA	6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	143.75	38.32
33 31 11 00-0212	EA	6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	157.44	40.20
33 31 11 00-0213	EA	8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	189.29	42.08
33 31 11 00-0214	EA	8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	215.37	43.95
33 31 11 00-0215	EA	8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	324.15	45.83
33 31 11 00-0216	EA	10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	487.44	47.26
33 31 11 00-0217	EA	10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	497.47	49.14
33 31 11 00-0218	EA	10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	742.55	51.01
33 31 11 00-0219	EA	10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	820.94	53.60
33 31 11 00-0220	EA	12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	617.05	57.09
33 31 11 00-0221	EA	12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	636.45	58.97
33 31 11 00-0222	EA	12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	905.36	60.84
33 31 11 00-0223	EA	12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,088.37	63.43
33 31 11 00-0224	EA	12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,136.95	68.34
33 31 11 00-0225	EA	15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,400.64	82.20
33 31 11 00-0226	EA	15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,552.87	87.11
33 31 11 00-0227	EA	15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,938.30	96.48

33 31 11 00-0228 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) *(33 31 11 00-0176)*

33 31 11 00-0229	EA	4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	66.65	23.05
33 31 11 00-0230	EA	6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	101.03	26.81
33 31 11 00-0231	EA	8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	146.64	30.55
33 31 11 00-0232	EA	10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	272.02	35.74

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0233	EA	12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	384.61	45.56
33 31 11 00-0234	EA	15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	745.84	64.32
33 31 11 00-0235	EA	18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,395.05	91.13
33 31 11 00-0236	EA	21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,319.68	120.61
33 31 11 00-0237	EA	24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,354.44	160.81

33 31 11 00-0238 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) *(33 31 11 00-0176)*

33 31 11 00-0239	EA	6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	122.55	24.93
33 31 11 00-0240	EA	8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	173.28	26.81
33 31 11 00-0241	EA	8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	182.84	28.67
33 31 11 00-0242	EA	10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	403.19	31.27
33 31 11 00-0243	EA	10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	462.66	33.14
33 31 11 00-0244	EA	12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	516.73	36.18
33 31 11 00-0245	EA	12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	592.17	38.06
33 31 11 00-0246	EA	12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	678.20	40.65
33 31 11 00-0247	EA	15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,019.46	54.94

33 31 11 00-0248 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) *(33 31 11 00-0176)*

33 31 11 00-0249	EA	6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	103.01	
33 31 11 00-0250	EA	8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	135.22	
33 31 11 00-0251	EA	8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	138.05	
33 31 11 00-0252	EA	10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	224.39	
33 31 11 00-0253	EA	10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	236.24	
33 31 11 00-0254	EA	10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	440.04	
33 31 11 00-0255	EA	12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	256.34	
33 31 11 00-0256	EA	12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	278.54	
33 31 11 00-0257	EA	12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	607.57	
33 31 11 00-0258	EA	12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	714.50	
33 31 11 00-0259	EA	15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	297.31	
33 31 11 00-0260	EA	15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	316.69	

33 31 11 00-0261 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)

(33 31 11 00-0176)

33 31 11 00-0262	EA	6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	109.65	
33 31 11 00-0263	EA	8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	135.22	
33 31 11 00-0264	EA	8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	147.08	
33 31 11 00-0265	EA	10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	206.82	
33 31 11 00-0266	EA	10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	234.82	
33 31 11 00-0267	EA	10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	351.58	
33 31 11 00-0268	EA	12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	254.93	
33 31 11 00-0269	EA	12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	277.20	
33 31 11 00-0270	EA	12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	409.51	
33 31 11 00-0271	EA	12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	495.87	
33 31 11 00-0272	EA	15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	296.44	
33 31 11 00-0273	EA	15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	310.12	
33 31 11 00-0274	EA	15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	505.76	
33 31 11 00-0275	EA	15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	557.87	
33 31 11 00-0276	EA	15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	781.84	

33 31 11 00-0277 Couplings And Plug Fittings *(33 31 11)*

33 31 11 00-0278 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings *(33 31 11 00-0277)*

Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.

33 31 11 00-0279	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	20.06	6.17
33 31 11 00-0280	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)	21.80	7.20
33 31 11 00-0281	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)	25.76	8.23
33 31 11 00-0282	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)	29.65	8.75
33 31 11 00-0283	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)	37.92	9.26
33 31 11 00-0284	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)	46.25	10.29
33 31 11 00-0285	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)	61.54	11.32
33 31 11 00-0286	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)	78.43	11.82
33 31 11 00-0287	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212)	138.69	12.34
33 31 11 00-0288	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515)	193.82	13.37
33 31 11 00-0289	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818)	389.10	13.88
33 31 11 00-0290	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121)	454.11	14.66
33 31 11 00-0291	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424)	504.22	15.43
33 31 11 00-0292	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727)	606.06	16.46

33 32 Sanitary Sewerage Equipment *(33 30)*

33 32 16 Packaged Wastewater Grinder Pump Assemblies *(33 32)*

33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller *(33 32 16)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 32 16 00-0002	EA	2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge Note: Zoeller 840 series.	2,093.61	304.29
33 32 16 00-0003	EA	2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge Note: Zoeller 840 series.	2,062.91	304.29
33 32 16 00-0004	EA	Simplex Control Panel With Auto Reversing Switch Note: For Zoeller 840 series grinder pump.	999.91	101.40
33 32 16 00-0005	EA	Duplex Control Panel With Auto Reversing Switch Note: For Zoeller 840 series grinder pump.	1,570.40	101.40
33 32 16 00-0006	EA	Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74)	8,977.45	

33 32 16 00-0007 Submersible Grinder Pumps *(33 32 16)*

Note: Includes 50' of cord with pumps unless otherwise noted.

33 32 16 00-0008	EA	2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	3,680.47	635.11
33 32 16 00-0009	EA	3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	5,543.98	740.97
33 32 16 00-0010	EA	5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	6,779.73	952.67

33 34 Onsite Wastewater Disposal *(33 30)*

Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks *(33 34)*

33 34 13 13 Concrete Septic Tanks *(33 34 13)*

33 34 13 13-0001 Precast Concrete Septic Tank *(33 34 13 13)*

Note: Includes external coating.

33 34 13 13-0002	EA	1,000 Gallon Precast Septic Tank	2,871.37	635.11
		For Non-Traffic Rated, Deduct	*-522.85*	
33 34 13 13-0003	EA	1,250 Gallon Precast Septic Tank	3,433.48	701.06
		For Non-Traffic Rated, Deduct	*-643.19*	
33 34 13 13-0004	EA	1,500 Gallon Precast Septic Tank	3,974.63	766.89
		For Non-Traffic Rated, Deduct	*-758.27*	
33 34 13 13-0005	EA	2,000 Gallon Precast Septic Tank	5,059.27	833.58
		For Non-Traffic Rated, Deduct	*-1,009.69*	
33 34 13 13-0006	EA	2,500 Gallon Precast Septic Tank	6,071.85	1,151.14
		For Non-Traffic Rated, Deduct	*-1,165.85*	
33 34 13 13-0007	EA	4,000 Gallon Precast Septic Tank	15,739.83	1,587.78
		For Non-Traffic Rated, Deduct	*-3,448.04*	
33 34 13 13-0008	EA	5,000 Gallon Precast Septic Tank	28,479.16	2,381.67
		For Non-Traffic Rated, Deduct	*-6,391.49*	
33 34 13 13-0009	EA	7,500 Gallon Precast Septic Tank	32,110.99	3,334.34
		For Non-Traffic Rated, Deduct	*-7,013.33*	
33 34 13 13-0010	EA	10,000 Gallon Precast Septic Tank	39,350.40	3,989.36
		For Non-Traffic Rated, Deduct	*-8,620.30*	
33 34 13 13-0011	EA	12,500 Gallon Precast Septic Tank	46,575.95	4,942.02
		For Non-Traffic Rated, Deduct	*-10,122.36*	

33 34 13 23 Fiberglass Septic Tank *(33 34 13)*

33 34 13 23-0001 Fiberglass Septic Tank *(33 34 13 23)*

33 34 13 23-0002	EA	1,000 Gallon Fiberglass Septic Tank	1,640.67	476.34
33 34 13 23-0003	EA	1,250 Gallon Fiberglass Septic Tank	1,998.84	635.11
33 34 13 23-0004	EA	1,500 Gallon Fiberglass Septic Tank	2,159.29	575.62
33 34 13 23-0005	EA	2,000 Gallon Fiberglass Septic Tank	3,300.68	623.15
33 34 13 23-0006	EA	2,500 Gallon Fiberglass Septic Tank	4,217.72	863.75
33 34 13 23-0007	EA	4,000 Gallon Fiberglass Septic Tank	6,527.48	1,190.84
33 34 13 23-0008	EA	5,000 Gallon Fiberglass Septic Tank	9,708.81	1,786.26
33 34 13 23-0009	EA	7,500 Gallon Fiberglass Septic Tank	13,347.32	2,500.76
33 34 13 23-0010	EA	10,000 Gallon Fiberglass Septic Tank	16,327.25	2,988.94

33 34 13 33 Polyethylene Septic Tank *(33 34 13)*

33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank *(33 34 13 33)*

33 34 13 33-0002	EA	300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank	922.15	186.68
33 34 13 33-0003	EA	500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank	1,389.72	210.02
33 34 13 33-0004	EA	900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	1,918.54	256.69
33 34 13 33-0005	EA	1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	1,976.54	280.02
33 34 13 33-0006	EA	1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,282.23	303.36
33 34 13 33-0007	EA	1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,723.90	326.69
33 34 13 33-0008	EA	750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	1,922.05	233.35
33 34 13 33-0009	EA	1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,106.05	280.02
33 34 13 33-0010	EA	1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,466.78	303.36
33 34 13 33-0011	EA	1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank	2,885.79	326.69

33 34 51 Drainage Field System *(33 34)*

33 34 51 00-0001 Leaching Pit - Precast Concrete *(33 34 51)*

Note: Includes external coating.

33 34 51 00-0002	EA	3' Diameter, 3' High, Precast Concrete Leaching Pit	843.98	93.15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 51 00-0003	EA	4' Diameter, 3' High, Precast Concrete Leaching Pit	1,189.63	132.32
33 34 51 00-0004	EA	6' Diameter, 3' High, Precast Concrete Leaching Pit	1,584.59	158.78
33 34 51 00-0005	EA	8' Diameter, 4' High, Precast Concrete Leaching Pit	2,578.13	264.63
33 34 51 00-0006	EA	10' Diameter, 4' High, Precast Concrete Leaching Pit	3,766.52	370.48

33 34 53 Distribution Chambers *(33 34)*

33 34 53 13 Drainage Field Concrete Distribution Chambers *(33 34 53)*

33 34 53 13-0001 Concrete Distribution Boxes *(33 34 53 13)*
Note: Includes internal and external coating.

33 34 53 13-0002	EA	3 Outlet Concrete Distribution Box	263.31	66.09
33 34 53 13-0003	EA	5 Outlet Concrete Distribution Box	307.56	79.32
33 34 53 13-0004	EA	8 Outlet Concrete Distribution Box	516.93	92.53
33 34 53 13-0005	EA	12 Outlet Concrete Distribution Box	1,010.13	158.62

33 34 53 13-0006 Leaching Field Chambers - Precast Concrete *(33 34 53 13)*

33 34 53 13-0007	EA	Standard Leaching Field Chamber 13' x 3'-7" x 1'-4"	1,008.60	85.07
33 34 53 13-0008	EA	Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6"	1,233.10	116.02

33 34 56 Drainage Field Dosing Chambers *(33 34)*

33 34 56 00-0001 Dosing Siphon *(33 34 56)*

33 34 56 00-0002	EA	Dosing Siphon With Electrical Connection And Solenoid Valve	3,845.41	
33 34 56 00-0003	EA	Solar Power Control For Dosing Siphon	2,637.12	
33 34 56 00-0004	EA	Electrical Power Control For Dosing Siphon	2,534.84	

33 40 Stormwater Utilities *(33)*

33 41 Subdrainage *(33 40)*

33 41 16 Subdrainage Piping *(33 41)*

33 41 16 13 Subdrainage Piping *(33 41 16)*

See CSI section 33 42 11 00-0209 for polyethylene drain pipe.

33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping *(33 41 16 13)*

33 41 16 13-0002 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping *(33 41 16 13-0001)*
Note: Excludes couplings and gaskets.

33 41 16 13-0003 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping *(33 41 16 13-0002)*

33 41 16 13-0004	LF	4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	5.23	4.60
		For <100, Add	*0.95*	
		For >1,000, Deduct	*-0.49*	
33 41 16 13-0005	LF	6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	6.32	4.92
		For <100, Add	*1.05*	
		For >1,000, Deduct	*-0.56*	
33 41 16 13-0006	LF	8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	7.65	5.17
		For <100, Add	*1.16*	
		For >1,000, Deduct	*-0.64*	
33 41 16 13-0007	LF	10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	9.91	5.33
		For <100, Add	*1.30*	
		For >1,000, Deduct	*-0.76*	
33 41 16 13-0008	LF	12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	11.53	5.82
		For <100, Add	*1.45*	
		For >1,000, Deduct	*-0.87*	
33 41 16 13-0009	LF	15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	14.88	6.57
		For <100, Add	*1.73*	
		For >1,000, Deduct	*-1.07*	
33 41 16 13-0010	LF	18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	23.73	10.72
		For <100, Add	*2.79*	
		For >1,000, Deduct	*-1.72*	
33 41 16 13-0011	LF	24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	32.08	11.77
		For <100, Add	*3.37*	
		For >1,000, Deduct	*-2.19*	

33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping *(33 41 16 13-0002)*

33 41 16 13-0013	LF	4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	5.14	4.60
		For <100, Add	*0.95*	
		For >1,000, Deduct	*-0.49*	
33 41 16 13-0014	LF	6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	6.28	4.92
		For <100, Add	*1.05*	
		For >1,000, Deduct	*-0.56*	
33 41 16 13-0015	LF	8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	9.35	5.17
		For <100, Add	*1.24*	
		For >1,000, Deduct	*-0.73*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0016	LF	10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	10.80	5.33
		For <100, Add	*1.34*	
		For >1,000, Deduct	*-0.81*	
33 41 16 13-0017	LF	12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	12.51	5.82
		For <100, Add	*1.50*	
		For >1,000, Deduct	*-0.92*	
33 41 16 13-0018	LF	15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	14.78	6.57
		For <100, Add	*1.72*	
		For >1,000, Deduct	*-1.07*	
33 41 16 13-0019	LF	18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	23.08	10.72
		For <100, Add	*2.76*	
		For >1,000, Deduct	*-1.69*	
33 41 16 13-0020	LF	24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.06	11.77
		For <100, Add	*3.32*	
		For >1,000, Deduct	*-2.14*	

33 41 16 13-0021 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings *(33 41 16 13-0001)*

Note: Excludes couplings and gaskets.

33 41 16 13-0022 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) *(33 41 16 13-0021)*

33 41 16 13-0023	EA	4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	38.57	21.45
33 41 16 13-0024	EA	6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	45.77	25.03
33 41 16 13-0025	EA	8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	71.97	30.39
33 41 16 13-0026	EA	10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	92.07	37.54
33 41 16 13-0027	EA	12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	134.20	44.70
33 41 16 13-0028	EA	15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	282.70	58.40
33 41 16 13-0029	EA	18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	340.04	78.66
33 41 16 13-0030	EA	24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	629.99	89.39

33 41 16 13-0031 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) *(33 41 16 13-0021)*

33 41 16 13-0032	EA	4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	39.52	21.45
33 41 16 13-0033	EA	6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	48.89	25.03
33 41 16 13-0034	EA	8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	104.64	30.39

33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) *(33 41 16 13-0021)*

33 41 16 13-0036	EA	4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	26.04	14.31

33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) *(33 41 16 13-0021)*

33 41 16 13-0038	EA	4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	27.04	14.31
33 41 16 13-0039	EA	6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	34.55	16.69
33 41 16 13-0040	EA	8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	50.31	20.26
33 41 16 13-0041	EA	10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	65.93	25.03

33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 *(33 41 16 13)*

Note: Includes fittings, couplings, elbows, etc.

33 41 16 13-0043	LF	3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	5.62	3.55
		For <100, Add	*0.81*	
		For >1,000, Deduct	*-0.46*	
33 41 16 13-0044	LF	4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	6.13	3.83
		For <100, Add	*0.88*	
		For >1,000, Deduct	*-0.50*	
33 41 16 13-0045	LF	6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	8.54	4.59
		For <100, Add	*1.12*	
		For >1,000, Deduct	*-0.66*	
33 41 16 13-0046	LF	8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	13.12	5.74
		For <100, Add	*1.52*	
		For >1,000, Deduct	*-0.94*	
33 41 16 13-0047	LF	10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	20.74	5.98
		For <100, Add	*1.93*	
		For >1,000, Deduct	*-1.34*	
33 41 16 13-0048	LF	12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	26.29	6.53
		For <100, Add	*2.29*	
		For >1,000, Deduct	*-1.64*	
33 41 16 13-0049	LF	15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	38.03	7.36
		For <100, Add	*3.01*	
		For >1,000, Deduct	*-2.27*	

33 41 16 13-0050 Perforated Non Reinforced Concrete Drainage Piping, C444 *(33 41 16 13)*

33 41 16 13-0051	LF	6" Perforated Non Reinforced Concrete Drainage Pipe	29.22	11.43
		For Extra Strength, Add	*1.52*	
		For >1,000, Deduct	*-1.46*	
33 41 16 13-0052	LF	8" Perforated Non Reinforced Concrete Drainage Pipe	34.05	12.70
		For Extra Strength, Add	*1.87*	
		For >1,000, Deduct	*-1.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0053	LF	10" Perforated Non Reinforced Concrete Drainage Pipe	38.46	13.96
		For Extra Strength, Add	*2.17*	
		For >1,000, Deduct	*-1.92*	
33 41 16 13-0054	LF	12" Perforated Non Reinforced Concrete Drainage Pipe	44.96	15.23
		For Extra Strength, Add	*2.73*	
		For >1,000, Deduct	*-2.25*	

33 41 16 13-0055 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 *(33 41 16 13)*

Note: Bell and spigot or tongue and groove. With seals and gaskets.

33 41 16 13-0056	LF	6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	24.52	11.43
		For >1,000, Deduct	*-1.23*	
33 41 16 13-0057	LF	8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	27.15	12.70
		For >1,000, Deduct	*-1.36*	
33 41 16 13-0058	LF	10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	29.94	13.96
		For >1,000, Deduct	*-1.50*	
33 41 16 13-0059	LF	12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	34.06	14.51
		For >1,000, Deduct	*-1.70*	
33 41 16 13-0060	LF	15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	39.46	16.32
		For >1,000, Deduct	*-1.97*	
33 41 16 13-0061	LF	18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	48.85	20.86
		For >1,000, Deduct	*-2.44*	
33 41 16 13-0062	LF	21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	61.07	26.75
		For >1,000, Deduct	*-3.05*	
33 41 16 13-0063	LF	24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	74.43	32.64
		For >1,000, Deduct	*-3.72*	

33 41 16 13-0064 Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 *(33 41 16 13)*

33 41 16 13-0065	LF	6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	22.97	11.43
		For >1,000, Deduct	*-1.15*	
33 41 16 13-0066	LF	8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	28.87	12.70
		For >1,000, Deduct	*-1.44*	
33 41 16 13-0067	LF	10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	36.16	13.96
		For >1,000, Deduct	*-1.81*	
33 41 16 13-0068	LF	12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	43.58	15.23
		For >1,000, Deduct	*-2.18*	
33 41 16 13-0069	LF	15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	49.83	16.94
		For >1,000, Deduct	*-2.49*	
33 41 16 13-0070	LF	18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	64.43	21.13
		For >1,000, Deduct	*-3.22*	

33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 *(33 41 16 13)*

33 41 16 13-0072	LF	4" Perforated Vitrified Clay Drainage Pipe	25.29	12.70
33 41 16 13-0073	LF	6" Perforated Vitrified Clay Drainage Pipe	30.54	14.28
33 41 16 13-0074	LF	8" Perforated Vitrified Clay Drainage Pipe	35.61	14.28
33 41 16 13-0075	LF	10" Perforated Vitrified Clay Drainage Pipe	48.37	17.45
33 41 16 13-0076	LF	12" Perforated Vitrified Clay Drainage Pipe	58.15	19.04

33 41 16 13-0077 Geotextile Filter Fabric Sock *(33 41 16 13)*

33 41 16 13-0078	LF	3" Geotextile Filter Fabric Sock	0.66	
33 41 16 13-0079	LF	4" Geotextile Filter Fabric Sock	0.86	
33 41 16 13-0080	LF	6" Geotextile Filter Fabric Sock	1.32	
33 41 16 13-0081	LF	8" Geotextile Filter Fabric Sock	1.76	
33 41 16 13-0082	LF	10" Geotextile Filter Fabric Sock	2.57	
33 41 16 13-0083	LF	12" Geotextile Filter Fabric Sock	3.46	
33 41 16 13-0084	LF	15" Geotextile Filter Fabric Sock	4.07	

33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe *(33 41 16 13)*

Note: Perforations are located in the bottom quarter points of the pipe.

33 41 16 13-0086	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	19.09	5.44
		For Full Perforated, Add	*0.82*	
33 41 16 13-0087	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	24.02	6.59
		For Full Perforated, Add	*1.08*	
33 41 16 13-0088	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	30.32	8.36
		For Full Perforated, Add	*1.36*	
33 41 16 13-0089	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	33.98	9.89
		For Full Perforated, Add	*1.42*	
33 41 16 13-0090	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	38.32	10.24
		For Full Perforated, Add	*1.78*	
33 41 16 13-0091	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	42.78	10.62
		For Full Perforated, Add	*2.16*	
33 41 16 13-0092	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	48.56	11.45
		For Full Perforated, Add	*2.57*	

33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe *(33 41 16 13)*

Note: Perforations are located in the bottom quarter points of the pipe.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0094	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	20.42	5.44
		For Full Perforated, Add	*0.95*	
33 41 16 13-0095	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	25.81	6.59
		For Full Perforated, Add	*1.26*	
33 41 16 13-0096	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	32.50	8.36
		For Full Perforated, Add	*1.58*	
33 41 16 13-0097	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	36.10	9.89
		For Full Perforated, Add	*1.63*	
33 41 16 13-0098	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	40.95	10.24
		For Full Perforated, Add	*2.05*	
33 41 16 13-0099	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	45.89	10.62
		For Full Perforated, Add	*2.47*	
33 41 16 13-0100	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	52.19	11.45
		For Full Perforated, Add	*2.93*	

33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe *(33 41 16 13)*

Note: Perforations are located in the bottom quarter points of the pipe.

33 41 16 13-0102	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	20.84	5.44
		For Full Perforated, Add	*1.00*	
33 41 16 13-0103	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	26.35	6.59
		For Full Perforated, Add	*1.32*	
33 41 16 13-0104	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	33.20	8.36
		For Full Perforated, Add	*1.65*	
33 41 16 13-0105	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	41.35	9.89
		For Full Perforated, Add	*2.16*	
33 41 16 13-0106	LF	15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	47.47	10.24
		For Full Perforated, Add	*2.70*	
33 41 16 13-0107	LF	18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	53.81	10.62
		For Full Perforated, Add	*3.26*	
33 41 16 13-0108	LF	21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	61.42	11.45
		For Full Perforated, Add	*3.85*	

33 41 16 13-0109 Prefabricated Composite Drains *(33 41 16 13)*

33 41 16 13-0110 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) *(33 41 16 13-0109)*

Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.

33 41 16 13-0111	LF	12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	8.49	2.10
		For External Typar Geotextile Wrap, Add	*1.34*	
33 41 16 13-0112	EA	Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	36.69	
33 41 16 13-0113	EA	End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	36.69	
33 41 16 13-0114	EA	Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	67.80	
33 41 16 13-0115	EA	End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	67.80	
33 41 16 13-0116	LF	18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	13.15	2.62
		For External Typar Geotextile Wrap, Add	*2.01*	
33 41 16 13-0117	EA	Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	52.66	
33 41 16 13-0118	EA	End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	52.66	
33 41 16 13-0119	EA	Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	87.99	
33 41 16 13-0120	EA	End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	87.99	

33 41 19 Underslab Drainage *(33 41)*

33 41 19 13 Underslab Drainage Piping *(33 41 19)*

33 41 19 13-0001 Capillary Water Barrier Underslab Drainage *(33 41 19 13)*

Note: Consists of a layer of fine granular material overlying a coarse layer.

33 41 19 13-0002	CY	2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	65.75	
33 41 19 13-0003	CY	4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	63.34	
33 41 19 13-0004	CY	6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	62.37	
33 41 19 13-0005	CY	8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	60.91	

33 42 Stormwater Conveyance *(33 40)*

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 42 11 Stormwater Gravity Piping *(33 42)*

33 42 11 00-0001 Reinforced Concrete Piping *(33 42 11)*

33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets *(33 42 11 00-0001)*

33 42 11 00-0003	LF	12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	43.42	15.23
		For >1,000, Deduct	*-2.17*	
		For Class 4, Add	*2.06*	
		For Class 5, Add	*4.33*	
33 42 11 00-0004	LF	15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	51.95	16.94
		For >1,000, Deduct	*-2.60*	
		For Class 4, Add	*2.64*	
		For Class 5, Add	*5.55*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0005	LF	18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	59.36	21.13
		For >1,000, Deduct	*-2.97*	
		For Class 4, Add	*2.77*	
		For Class 5, Add	*5.83*	
33 42 11 00-0006	LF	21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	76.00	26.66
		For >1,000, Deduct	*-3.80*	
		For Class 4, Add	*3.60*	
		For Class 5, Add	*7.58*	
33 42 11 00-0007	LF	24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	89.14	32.37
		For >1,000, Deduct	*-4.46*	
		For Class 4, Add	*4.08*	
		For Class 5, Add	*8.58*	
33 42 11 00-0008	LF	27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	113.00	41.20
		For >1,000, Deduct	*-5.65*	
		For Class 4, Add	*5.14*	
		For Class 5, Add	*10.83*	
33 42 11 00-0009	LF	30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	120.06	42.54
		For >1,000, Deduct	*-6.00*	
		For Class 4, Add	*5.56*	
		For Class 5, Add	*11.71*	
33 42 11 00-0010	LF	36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	147.79	48.34
		For >1,000, Deduct	*-7.39*	
		For Class 4, Add	*7.55*	
		For Class 5, Add	*15.89*	
33 42 11 00-0011	LF	42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	190.14	53.17
		For >1,000, Deduct	*-9.51*	
		For Class 4, Add	*10.92*	
		For Class 5, Add	*22.99*	
33 42 11 00-0012	LF	48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	227.14	59.22
		For >1,000, Deduct	*-11.36*	
		For Class 4, Add	*13.54*	
		For Class 5, Add	*28.51*	
33 42 11 00-0013	LF	54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	281.77	67.68
		For >1,000, Deduct	*-14.09*	
		For Class 4, Add	*17.58*	
		For Class 5, Add	*37.02*	
33 42 11 00-0014	LF	60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	339.78	78.50
		For >1,000, Deduct	*-16.99*	
		For Class 4, Add	*21.63*	
		For Class 5, Add	*45.53*	
33 42 11 00-0015	LF	66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	518.68	87.01
		For >1,000, Deduct	*-25.93*	
		For Class 4, Add	*37.52*	
		For Class 5, Add	*78.99*	
33 42 11 00-0016	LF	72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	604.20	94.75
		For >1,000, Deduct	*-30.21*	
		For Class 4, Add	*44.54*	
		For Class 5, Add	*93.77*	
33 42 11 00-0017	LF	78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	725.48	106.35
		For >1,000, Deduct	*-36.27*	
		For Class 4, Add	*54.45*	
		For Class 5, Add	*114.64*	
33 42 11 00-0018	LF	84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	931.73	118.43
		For >1,000, Deduct	*-46.59*	
		For Class 4, Add	*72.44*	
		For Class 5, Add	*152.51*	

33 42 11 00-0019 Concrete Reducing Wye Without Gaskets *(33 42 11 00-0001)*

33 42 11 00-0020	EA	12" Concrete Reducing Wye Without Gaskets	511.43	58.03
33 42 11 00-0021	EA	15" Concrete Reducing Wye Without Gaskets	613.48	70.72
33 42 11 00-0022	EA	18" Concrete Reducing Wye Without Gaskets	756.76	77.98
33 42 11 00-0023	EA	21" Concrete Reducing Wye Without Gaskets	869.50	96.10
33 42 11 00-0024	EA	24" Concrete Reducing Wye Without Gaskets	983.66	116.05

33 42 11 00-0025 Concrete Pipe Joint Gaskets *(33 42 11 00-0001)*

33 42 11 00-0026	EA	12" Diameter Concrete Pipe Joint Gasket	4.80	
33 42 11 00-0027	EA	15" Diameter Concrete Pipe Joint Gasket	5.68	
33 42 11 00-0028	EA	18" Diameter Concrete Pipe Joint Gasket	6.58	
33 42 11 00-0029	EA	21" Diameter Concrete Pipe Joint Gasket	7.96	
33 42 11 00-0030	EA	24" Diameter Concrete Pipe Joint Gasket	9.32	
33 42 11 00-0031	EA	27" Diameter Concrete Pipe Joint Gasket	10.39	
33 42 11 00-0032	EA	30" Diameter Concrete Pipe Joint Gasket	11.41	
33 42 11 00-0033	EA	36" Diameter Concrete Pipe Joint Gasket	13.94	
33 42 11 00-0034	EA	42" Diameter Concrete Pipe Joint Gasket	16.17	
33 42 11 00-0035	EA	48" Diameter Concrete Pipe Joint Gasket	18.64	
33 42 11 00-0036	EA	54" Diameter Concrete Pipe Joint Gasket	22.85	
33 42 11 00-0037	EA	60" Diameter Concrete Pipe Joint Gasket	33.83	
33 42 11 00-0038	EA	66" Diameter Concrete Pipe Joint Gasket	35.17	
33 42 11 00-0039	EA	72" Diameter Concrete Pipe Joint Gasket	36.46	
33 42 11 00-0040	EA	78" Diameter Concrete Pipe Joint Gasket	41.99	
33 42 11 00-0041	EA	84" Diameter Concrete Pipe Joint Gasket	50.34	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0042		**Precast Concrete Cut Off Wall** *(33 42 11 00-0001)*		
33 42 11 00-0043	EA	12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	244.59	170.16
33 42 11 00-0044	EA	15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	301.71	210.76
33 42 11 00-0045	EA	18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	374.31	266.83
33 42 11 00-0046	EA	21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	443.04	319.04
33 42 11 00-0047	EA	24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	509.73	369.21
33 42 11 00-0048	EA	27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	628.84	471.79
33 42 11 00-0049	EA	30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	823.41	649.69
33 42 11 00-0050	EA	36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,026.75	819.84
33 42 11 00-0051	EA	42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,268.28	1,028.47
33 42 11 00-0052	EA	48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,419.68	1,159.18
33 42 11 00-0053	EA	54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,585.18	1,299.37
33 42 11 00-0054	EA	60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,753.05	1,443.42
33 42 11 00-0055	EA	66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,821.55	1,498.53
33 42 11 00-0056	EA	72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,881.80	1,546.87
33 42 11 00-0057	EA	78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,942.04	1,595.20
33 42 11 00-0058	EA	84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,003.79	1,643.55
33 42 11 00-0059		**Strap Assembly** *(33 42 11 00-0001)*		
		Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0060	EA	Up To 24" Diameter Pipe, 12' Strap Assembly	199.56	
33 42 11 00-0061	EA	>24" Diameter Pipe, 12' Strap Assembly	280.10	
33 42 11 00-0062		**Prestressed Concrete Cylinder Piping** *(33 42 11)*		
33 42 11 00-0063		**150 PSI Prestressed Concrete Cylinder Pipe And Fittings** *(33 42 11 00-0062)*		
33 42 11 00-0064		**150 PSI Prestressed Concrete Cylinder Pipe With Gaskets** *(33 42 11 00-0063)*		
		Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0065	LF	12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	115.08	15.23
		For >1,000, Deduct	*-5.75*	
		For 100 PSI, Deduct	*-23.33*	
33 42 11 00-0066	LF	15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	122.93	16.94
		For >1,000, Deduct	*-6.15*	
		For 100 PSI, Deduct	*-24.68*	
33 42 11 00-0067	LF	18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	134.31	21.13
		For >1,000, Deduct	*-6.72*	
		For 100 PSI, Deduct	*-26.03*	
33 42 11 00-0068	LF	21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	147.60	26.66
		For >1,000, Deduct	*-7.38*	
		For 100 PSI, Deduct	*-27.38*	
33 42 11 00-0069	LF	24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	161.17	32.37
		For >1,000, Deduct	*-8.06*	
		For 100 PSI, Deduct	*-28.73*	
33 42 11 00-0070	LF	30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	190.17	42.54
		For >1,000, Deduct	*-9.51*	
		For 100 PSI, Deduct	*-32.17*	
33 42 11 00-0071	LF	36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	210.79	48.34
		For >1,000, Deduct	*-10.54*	
		For 100 PSI, Deduct	*-35.61*	
33 42 11 00-0072	LF	42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	244.16	53.17
		For >1,000, Deduct	*-12.21*	
		For 100 PSI, Deduct	*-42.24*	
33 42 11 00-0073	LF	48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	280.06	59.22
		For >1,000, Deduct	*-14.00*	
		For 100 PSI, Deduct	*-48.87*	
33 42 11 00-0074	LF	54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	370.57	76.50
		For >1,000, Deduct	*-18.53*	
		For 100 PSI, Deduct	*-65.32*	
33 42 11 00-0075	LF	60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	446.01	88.74
		For >1,000, Deduct	*-22.30*	
		For 100 PSI, Deduct	*-79.81*	
33 42 11 00-0076	LF	66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	500.86	98.35
		For >1,000, Deduct	*-25.04*	
		For 100 PSI, Deduct	*-90.25*	
33 42 11 00-0077	LF	72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	558.17	107.09
		For >1,000, Deduct	*-27.91*	
		For 100 PSI, Deduct	*-101.30*	
33 42 11 00-0078	LF	78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	633.78	120.20
		For >1,000, Deduct	*-31.69*	
		For 100 PSI, Deduct	*-115.42*	
33 42 11 00-0079	LF	84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	709.39	133.86
		For >1,000, Deduct	*-35.47*	
		For 100 PSI, Deduct	*-129.54*	
33 42 11 00-0080	LF	90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	874.78	156.27
		For >1,000, Deduct	*-43.74*	
		For 100 PSI, Deduct	*-162.69*	
33 42 11 00-0081	LF	96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,028.49	178.45
		For >1,000, Deduct	*-51.42*	
		For 100 PSI, Deduct	*-193.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0082	LF	102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,199.71	195.18
		For >1,000, Deduct	*-59.99*	
		For 100 PSI, Deduct	*-230.22*	
33 42 11 00-0083	LF	108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,352.04	207.26
		For >1,000, Deduct	*-67.60*	
		For 100 PSI, Deduct	*-263.99*	
33 42 11 00-0084	LF	114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,627.15	219.34
		For >1,000, Deduct	*-81.36*	
		For 100 PSI, Deduct	*-328.45*	
33 42 11 00-0085	LF	120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	1,888.53	230.41
		For >1,000, Deduct	*-94.43*	
		For 100 PSI, Deduct	*-389.84*	
33 42 11 00-0086	LF	126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	2,056.59	241.47
		For >1,000, Deduct	*-102.83*	
		For 100 PSI, Deduct	*-427.91*	
33 42 11 00-0087	LF	132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	2,227.10	252.54
		For >1,000, Deduct	*-111.36*	
		For 100 PSI, Deduct	*-466.58*	
33 42 11 00-0088	LF	138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	2,396.39	263.61
		For >1,000, Deduct	*-119.82*	
		For 100 PSI, Deduct	*-504.95*	
33 42 11 00-0089	LF	144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets	2,565.68	274.68
		For >1,000, Deduct	*-128.28*	
		For 100 PSI, Deduct	*-543.32*	

33 42 11 00-0090 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets *(33 42 11 00-0063)*

33 42 11 00-0091	EA	12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	410.84	142.80
33 42 11 00-0092	EA	15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	570.07	204.00
33 42 11 00-0093	EA	18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	735.54	272.00
33 42 11 00-0094	EA	21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	901.01	339.99
33 42 11 00-0095	EA	24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,096.37	422.50
33 42 11 00-0096	EA	30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,400.97	566.67
33 42 11 00-0097	EA	36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,746.15	676.76
33 42 11 00-0098	EA	42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,034.03	789.87
33 42 11 00-0099	EA	48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,293.36	902.02
33 42 11 00-0100	EA	54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,825.41	1,126.32
33 42 11 00-0101	EA	60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	3,716.58	1,529.87
33 42 11 00-0102	EA	66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	4,146.93	1,693.79
33 42 11 00-0103	EA	72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	4,577.29	1,857.71
33 42 11 00-0104	EA	78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	5,474.83	2,130.89
33 42 11 00-0105	EA	84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	6,366.33	2,404.08
33 42 11 00-0106	EA	90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	7,521.08	2,731.92
33 42 11 00-0107	EA	96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	8,669.81	3,059.75
33 42 11 00-0108	EA	102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	11,604.54	3,923.89
33 42 11 00-0109	EA	108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	14,418.39	4,708.68
33 42 11 00-0110	EA	114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	18,783.03	6,278.24
33 42 11 00-0111	EA	120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	23,073.39	7,847.78
33 42 11 00-0112	EA	126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	25,931.43	8,464.40
33 42 11 00-0113	EA	132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	28,793.62	9,081.02
33 42 11 00-0114	EA	138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	36,983.96	9,697.62
33 42 11 00-0115	EA	144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	34,574.60	10,314.24

33 42 11 00-0116 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets *(33 42 11 00-0063)*

33 42 11 00-0117	EA	12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	385.79	142.80
33 42 11 00-0118	EA	15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	537.65	204.00
33 42 11 00-0119	EA	18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	697.24	272.00
33 42 11 00-0120	EA	21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	856.81	339.99
33 42 11 00-0121	EA	24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,046.28	422.50
33 42 11 00-0122	EA	30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,332.21	528.58
33 42 11 00-0123	EA	36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,667.57	676.76
33 42 11 00-0124	EA	42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	1,943.17	789.87
33 42 11 00-0125	EA	48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,195.63	902.02
33 42 11 00-0126	EA	54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	2,681.86	1,126.32
33 42 11 00-0127	EA	60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	3,584.29	1,529.87
33 42 11 00-0128	EA	66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	4,005.06	1,693.79
33 42 11 00-0129	EA	72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	4,425.84	1,857.71
33 42 11 00-0130	EA	78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	5,121.29	2,130.89
33 42 11 00-0131	EA	84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	5,810.71	2,404.08
33 42 11 00-0132	EA	90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	6,819.88	2,731.92
33 42 11 00-0133	EA	96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	7,823.03	3,059.75
33 42 11 00-0134	EA	102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	10,158.77	3,824.68
33 42 11 00-0135	EA	108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	12,770.46	4,708.68
33 42 11 00-0136	EA	114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	16,734.16	6,278.24
33 42 11 00-0137	EA	120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	20,623.58	7,847.78
33 42 11 00-0138	EA	126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	22,942.23	8,464.40
33 42 11 00-0139	EA	132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	25,265.03	10,314.24
33 42 11 00-0140	EA	138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	27,594.62	9,697.62
33 42 11 00-0141	EA	144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping	30,227.33	10,314.24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0142		**400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints** *(33 42 11 00-0062)*		
33 42 11 00-0143		**400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints** *(33 42 11 00-0142)*		
		Note: AWWA C301		
33 42 11 00-0144	LF	30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	222.47	42.54
		For >1,000, Deduct	*-11.12*	
33 42 11 00-0145	LF	36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	270.44	48.34
		For >1,000, Deduct	*-13.52*	
33 42 11 00-0146	LF	42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	314.97	53.17
		For >1,000, Deduct	*-15.75*	
33 42 11 00-0147		**400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints** *(33 42 11 00-0142)*		
		Note: AWWA C301		
33 42 11 00-0148	LF	48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	422.29	59.16
		For >1,000, Deduct	*-21.11*	
33 42 11 00-0149	LF	54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	507.08	76.50
		For >1,000, Deduct	*-25.35*	
33 42 11 00-0150	LF	60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	584.67	88.74
		For >1,000, Deduct	*-29.23*	
33 42 11 00-0151	LF	66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	657.87	98.35
		For >1,000, Deduct	*-32.89*	
33 42 11 00-0152	LF	72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	794.81	107.09
		For >1,000, Deduct	*-39.74*	
33 42 11 00-0153		**Welded Joints For Prestressed Concrete Cylinder Pipe** *(33 42 11 00-0142)*		
		Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0154	EA	30" Welded Joint For Prestressed Concrete Cylinder Pipe	1,421.03	
33 42 11 00-0155	EA	36" Welded Joint For Prestressed Concrete Cylinder Pipe	1,526.29	
33 42 11 00-0156	EA	42" Welded Joint For Prestressed Concrete Cylinder Pipe	1,578.92	
33 42 11 00-0157	EA	48" Welded Joint For Prestressed Concrete Cylinder Pipe	1,789.44	
33 42 11 00-0158	EA	54" Welded Joint For Prestressed Concrete Cylinder Pipe	1,842.07	
33 42 11 00-0159	EA	60" Welded Joint For Prestressed Concrete Cylinder Pipe	1,947.33	
33 42 11 00-0160	EA	66" Welded Joint For Prestressed Concrete Cylinder Pipe	1,999.96	
33 42 11 00-0161	EA	72" Welded Joint For Prestressed Concrete Cylinder Pipe	2,052.59	
33 42 11 00-0162	EA	30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	2,631.53	
33 42 11 00-0163	EA	36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	2,631.53	
33 42 11 00-0164	EA	42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	2,999.94	
33 42 11 00-0165	EA	48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	2,999.94	
33 42 11 00-0166	EA	54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,210.46	
33 42 11 00-0167	EA	60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,210.46	
33 42 11 00-0168	EA	66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,473.62	
33 42 11 00-0169	EA	72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	3,473.62	
33 42 11 00-0170		**Quick Test Joints** *(33 42 11 00-0142)*		
33 42 11 00-0171	EA	30" Quick Test Joint	415.65	
33 42 11 00-0172	EA	36" Quick Test Joint	420.49	
33 42 11 00-0173	EA	42" Quick Test Joint	425.32	
33 42 11 00-0174	EA	48" Quick Test Joint	434.82	
33 42 11 00-0175	EA	54" Quick Test Joint	458.46	
33 42 11 00-0176	EA	60" Quick Test Joint	477.14	
33 42 11 00-0177	EA	66" Quick Test Joint	503.59	
33 42 11 00-0178	EA	72" Quick Test Joint	530.03	
33 42 11 00-0179		**Harnessed Joints** *(33 42 11 00-0142)*		
33 42 11 00-0180		**Harness Clamp Restrained Joints** *(33 42 11 00-0179)*		
33 42 11 00-0181	EA	30" Harness Clamp Restrained Joint	2,861.58	
33 42 11 00-0182	EA	36" Harness Clamp Restrained Joint	2,973.50	
33 42 11 00-0183	EA	42" Harness Clamp Restrained Joint	3,085.42	
33 42 11 00-0184	EA	48" Harness Clamp Restrained Joint	3,197.34	
33 42 11 00-0185	EA	54" Harness Clamp Restrained Joint	3,321.86	
33 42 11 00-0186	EA	60" Harness Clamp Restrained Joint	3,493.41	
33 42 11 00-0187	EA	66" Harness Clamp Restrained Joint	3,611.43	
33 42 11 00-0188	EA	72" Harness Clamp Restrained Joint	3,868.65	
33 42 11 00-0189		**Snap Ring Restrained Joints** *(33 42 11 00-0179)*		
33 42 11 00-0190	EA	30" Snap Ring Restrained Joint	505.68	
33 42 11 00-0191	EA	36" Snap Ring Restrained Joint	574.78	
33 42 11 00-0192	EA	42" Snap Ring Restrained Joint	761.65	
33 42 11 00-0193	EA	48" Snap Ring Restrained Joint	862.87	
33 42 11 00-0194	EA	54" Snap Ring Restrained Joint	976.68	
33 42 11 00-0195	EA	60" Snap Ring Restrained Joint	1,105.39	
33 42 11 00-0196	EA	66" Snap Ring Restrained Joint	1,223.41	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0197	EA	72" Snap Ring Restrained Joint	1,362.84	

33 42 11 00-0198 Pipe Repairs *(33 42 11 00-0142)*

Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.

33 42 11 00-0199 Lined Cylinder Pipe Repair *(33 42 11 00-0198)*

33 42 11 00-0200	EA	30" Lined Cylinder Pipe Repair	5,434.87	
33 42 11 00-0201	EA	36" Lined Cylinder Pipe Repair	6,728.78	
33 42 11 00-0202	EA	42" Lined Cylinder Pipe Repair	8,604.51	

33 42 11 00-0203 Embedded Cylinder Pipe Repair *(33 42 11 00-0198)*

Note: Field welded concrete enclosure assembly with concrete pipe.

33 42 11 00-0204	EA	48" Embedded Cylinder Pipe Repair	12,721.43	
33 42 11 00-0205	EA	54" Embedded Cylinder Pipe Repair	14,760.38	
33 42 11 00-0206	EA	60" Embedded Cylinder Pipe Repair	16,815.53	
33 42 11 00-0207	EA	66" Embedded Cylinder Pipe Repair	18,996.69	
33 42 11 00-0208	EA	72" Embedded Cylinder Pipe Repair	22,802.62	

33 42 11 00-0209 High Density Polyethylene (HDPE) Piping *(33 42 11)*

33 42 11 00-0210 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping *(33 42 11 00-0209)*

Note: Excludes couplings and gaskets.

33 42 11 00-0211 Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping *(33 42 11 00-0210)*

33 42 11 00-0212	LF	4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	13.68	6.33
		For <100, Add	*2.53*	
		For >1,000, Deduct	*-1.32*	
33 42 11 00-0213	LF	6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	17.32	7.36
		For <100, Add	*2.94*	
		For >1,000, Deduct	*-1.60*	
33 42 11 00-0214	LF	8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	21.01	8.56
		For <100, Add	*3.42*	
		For >1,000, Deduct	*-1.91*	
33 42 11 00-0215	LF	10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	23.34	8.85
		For <100, Add	*3.54*	
		For >1,000, Deduct	*-2.05*	
33 42 11 00-0216	LF	12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	24.44	9.17
		For <100, Add	*3.67*	
		For >1,000, Deduct	*-2.14*	
33 42 11 00-0217	LF	15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	27.17	9.49
		For <100, Add	*3.80*	
		For >1,000, Deduct	*-2.31*	
33 42 11 00-0218	LF	18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.88	9.85
		For <100, Add	*3.94*	
		For >1,000, Deduct	*-2.58*	
33 42 11 00-0219	LF	24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	42.50	11.53
		For <100, Add	*4.61*	
		For >1,000, Deduct	*-3.28*	
33 42 11 00-0220	LF	30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	59.75	15.52
		For <100, Add	*6.21*	
		For >1,000, Deduct	*-4.54*	
33 42 11 00-0221	LF	36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	78.05	19.62
		For <100, Add	*7.85*	
		For >1,000, Deduct	*-5.86*	

33 42 11 00-0222 Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping *(33 42 11 00-0210)*

33 42 11 00-0223	LF	12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	24.33	9.17
		For <100, Add	*3.67*	
		For >1,000, Deduct	*-2.13*	
33 42 11 00-0224	LF	15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	27.60	9.49
		For <100, Add	*3.80*	
		For >1,000, Deduct	*-2.33*	
33 42 11 00-0225	LF	18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	32.53	9.85
		For <100, Add	*3.94*	
		For >1,000, Deduct	*-2.61*	
33 42 11 00-0226	LF	24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	43.52	11.53
		For <100, Add	*4.61*	
		For >1,000, Deduct	*-3.33*	
33 42 11 00-0227	LF	30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	62.55	15.52
		For <100, Add	*6.21*	
		For >1,000, Deduct	*-4.68*	
33 42 11 00-0228	LF	36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	80.13	19.62
		For <100, Add	*7.85*	
		For >1,000, Deduct	*-5.97*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0229	LF	42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	101.84	21.40
		For <100, Add	*8.56*	
		For >1,000, Deduct	*-7.23*	
33 42 11 00-0230	LF	48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	111.57	24.14
		For <100, Add	*9.66*	
		For >1,000, Deduct	*-7.99*	

33 42 11 00-0231 Perforated, Corrugated High Density Polyethylene (HDPE) Piping *(33 42 11 00-0209)*

Note: Excludes couplings and gaskets.

33 42 11 00-0232 Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping *(33 42 11 00-0231)*

33 42 11 00-0233	LF	4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	14.22	6.33
		For <100, Add	*2.53*	
		For >1,000, Deduct	*-1.34*	
33 42 11 00-0234	LF	6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	17.34	7.36
		For <100, Add	*2.94*	
		For >1,000, Deduct	*-1.60*	
33 42 11 00-0235	LF	8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	21.01	8.56
		For <100, Add	*3.42*	
		For >1,000, Deduct	*-1.91*	
33 42 11 00-0236	LF	10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	23.36	8.85
		For <100, Add	*3.54*	
		For >1,000, Deduct	*-2.05*	
33 42 11 00-0237	LF	12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	24.44	9.17
		For <100, Add	*3.67*	
		For >1,000, Deduct	*-2.14*	
33 42 11 00-0238	LF	15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	27.19	9.49
		For <100, Add	*3.80*	
		For >1,000, Deduct	*-2.31*	
33 42 11 00-0239	LF	18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.90	9.85
		For <100, Add	*3.94*	
		For >1,000, Deduct	*-2.58*	
33 42 11 00-0240	LF	24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	42.50	11.53
		For <100, Add	*4.61*	
		For >1,000, Deduct	*-3.28*	
33 42 11 00-0241	LF	30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	59.93	15.52
		For <100, Add	*6.21*	
		For >1,000, Deduct	*-4.55*	
33 42 11 00-0242	LF	36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	78.05	19.62
		For <100, Add	*7.85*	
		For >1,000, Deduct	*-5.86*	

33 42 11 00-0243 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping *(33 42 11 00-0231)*

33 42 11 00-0244	LF	12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	24.35	9.17
		For <100, Add	*3.67*	
		For >1,000, Deduct	*-2.13*	
33 42 11 00-0245	LF	15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	27.62	9.49
		For <100, Add	*3.80*	
		For >1,000, Deduct	*-2.33*	
33 42 11 00-0246	LF	18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	32.55	9.85
		For <100, Add	*3.94*	
		For >1,000, Deduct	*-2.61*	
33 42 11 00-0247	LF	24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	43.52	11.53
		For <100, Add	*4.61*	
		For >1,000, Deduct	*-3.33*	
33 42 11 00-0248	LF	30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	62.55	15.52
		For <100, Add	*6.21*	
		For >1,000, Deduct	*-4.68*	
33 42 11 00-0249	LF	36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	80.13	19.62
		For <100, Add	*7.85*	
		For >1,000, Deduct	*-5.97*	
33 42 11 00-0250	LF	42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	101.84	21.40
		For <100, Add	*8.56*	
		For >1,000, Deduct	*-7.23*	
33 42 11 00-0251	LF	48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	111.57	24.14
		For <100, Add	*9.66*	
		For >1,000, Deduct	*-7.99*	

33 42 11 00-0252 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings *(33 42 11 00-0209)*

Note: Excludes couplings and gaskets.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0253		**Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)** *(33 42 11 00-0252)*		
33 42 11 00-0254	EA	4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	54.10	21.45
33 42 11 00-0255	EA	6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	67.58	25.03
33 42 11 00-0256	EA	8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	106.99	30.39
33 42 11 00-0257	EA	10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	161.34	37.54
33 42 11 00-0258	EA	12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	251.50	44.70
33 42 11 00-0259	EA	15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	353.97	58.40
33 42 11 00-0260	EA	18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	507.93	78.66
33 42 11 00-0261	EA	24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	648.57	89.78
33 42 11 00-0262	EA	30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,122.15	103.69
33 42 11 00-0263	EA	36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,438.38	119.78
33 42 11 00-0264	EA	42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	2,382.64	143.01
33 42 11 00-0265	EA	48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	2,988.57	169.84
33 42 11 00-0266		**Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)** *(33 42 11 00-0252)*		
33 42 11 00-0267	EA	4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	77.18	21.45
33 42 11 00-0268	EA	6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	92.90	25.03
33 42 11 00-0269	EA	8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	122.97	30.39
33 42 11 00-0270	EA	10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	178.97	37.54
33 42 11 00-0271	EA	12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	308.20	44.70
33 42 11 00-0272	EA	15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	336.57	58.40
33 42 11 00-0273	EA	18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	474.10	78.66
33 42 11 00-0274		**22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)** *(33 42 11 00-0252)*		
33 42 11 00-0275	EA	4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	33.17	14.31
33 42 11 00-0276	EA	6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	40.73	16.69
33 42 11 00-0277	EA	8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	58.53	20.26
33 42 11 00-0278	EA	10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	73.57	25.03
33 42 11 00-0279	EA	12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	105.30	29.80
33 42 11 00-0280	EA	15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	164.42	38.14
33 42 11 00-0281	EA	18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	218.32	52.44
33 42 11 00-0282	EA	24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	405.62	59.59
33 42 11 00-0283	EA	30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	560.62	69.12
33 42 11 00-0284	EA	36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	656.71	79.85
33 42 11 00-0285	EA	42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	837.80	95.34
33 42 11 00-0286	EA	48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,129.18	113.22
33 42 11 00-0287		**45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)** *(33 42 11 00-0252)*		
33 42 11 00-0288	EA	4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	35.70	14.31
33 42 11 00-0289	EA	6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	45.99	16.69
33 42 11 00-0290	EA	8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	61.21	20.26
33 42 11 00-0291	EA	10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	95.41	25.03
33 42 11 00-0292	EA	12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	105.30	29.80
33 42 11 00-0293	EA	15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	163.98	38.14
33 42 11 00-0294	EA	18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	253.55	52.44
33 42 11 00-0295	EA	24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	432.84	59.59
33 42 11 00-0296	EA	30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	561.91	69.12
33 42 11 00-0297	EA	36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	715.37	79.85
33 42 11 00-0298	EA	42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,064.20	95.34
33 42 11 00-0299	EA	48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,332.10	113.22
33 42 11 00-0300		**Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe Fittings** *(33 42 11 00-0209)*		
		Note: For single and double wall high density polyethylene (HDPE) piping.		
33 42 11 00-0301		**Couplings, Corrugated High Density Polyethylene (HDPE) Pipe** *(33 42 11 00-0300)*		
33 42 11 00-0302	EA	4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	1.50	
33 42 11 00-0303	EA	6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	2.70	
33 42 11 00-0304	EA	8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	4.16	
33 42 11 00-0305	EA	10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.11	
33 42 11 00-0306	EA	12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.50	
33 42 11 00-0307	EA	15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	7.83	
33 42 11 00-0308	EA	18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	11.59	
33 42 11 00-0309	EA	24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	18.45	
33 42 11 00-0310	EA	30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	28.32	
33 42 11 00-0311	EA	36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	37.06	
33 42 11 00-0312	EA	42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	58.26	
33 42 11 00-0313	EA	48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	78.79	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0314		**Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe** *(33 42 11 00-0300)*		
33 42 11 00-0315	EA	4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	79.78	
33 42 11 00-0316	EA	6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	83.53	
33 42 11 00-0317	EA	8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	87.46	
33 42 11 00-0318	EA	10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	91.57	
33 42 11 00-0319	EA	12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	108.61	
33 42 11 00-0320	EA	15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	112.14	
33 42 11 00-0321	EA	18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	116.96	
33 42 11 00-0322	EA	24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	133.23	
33 42 11 00-0323	EA	30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	213.57	
33 42 11 00-0324	EA	36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	233.93	
33 42 11 00-0325	EA	42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	254.88	
33 42 11 00-0326	EA	48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	309.56	
33 42 11 00-0327		**End Caps, Corrugated High Density Polyethylene (HDPE) Pipe** *(33 42 11 00-0300)*		
33 42 11 00-0328	EA	6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	26.31	
33 42 11 00-0329	EA	8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	30.35	
33 42 11 00-0330	EA	10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	46.09	
33 42 11 00-0331	EA	12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	74.78	
33 42 11 00-0332	EA	15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	86.42	
33 42 11 00-0333	EA	18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	115.06	
33 42 11 00-0334	EA	24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	120.00	
33 42 11 00-0335		**Vitrified Clay Piping** *(33 42 11)*		
33 42 11 00-0336		**Extra Strength Vitrified Clay Piping** *(33 42 11 00-0335)*		
33 42 11 00-0337		**Plain Joint, Extra Strength, Vitrified Clay Piping** *(33 42 11 00-0336)* Note: ASTM C700.		
33 42 11 00-0338	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe	20.84	
		For 3' Lengths, Add	*2.16*	
		For 2' Lengths, Add	*2.88*	
		For Standard Strength, Deduct	*-0.72*	
		For >1,000, Deduct	*-1.04*	
33 42 11 00-0339	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe	34.42	
		For 3' Lengths, Add	*3.36*	
		For 2' Lengths, Add	*4.48*	
		For Standard Strength, Deduct	*-1.12*	
		For >1,000, Deduct	*-1.72*	
33 42 11 00-0340	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe	41.81	
		For 3' Lengths, Add	*4.80*	
		For 2' Lengths, Add	*6.40*	
		For Standard Strength, Deduct	*-1.60*	
		For >1,000, Deduct	*-2.09*	
33 42 11 00-0341	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe	51.35	
		For 3' Lengths, Add	*7.35*	
		For 2' Lengths, Add	*9.80*	
		For Standard Strength, Deduct	*-2.45*	
		For >1,000, Deduct	*-2.57*	
33 42 11 00-0342	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe	63.89	
		For 3' Lengths, Add	*10.38*	
		For 2' Lengths, Add	*13.84*	
		For Standard Strength, Deduct	*-3.46*	
		For >1,000, Deduct	*-3.19*	
33 42 11 00-0343	LF	15" Plain Joint, Extra Strength, Vitrified Clay Pipe	97.46	
		For 3' Lengths, Add	*19.47*	
		For 2' Lengths, Add	*25.96*	
		For Standard Strength, Deduct	*-6.49*	
		For >1,000, Deduct	*-4.87*	
33 42 11 00-0344	LF	18" Plain Joint, Extra Strength, Vitrified Clay Pipe	133.62	
		For 3' Lengths, Add	*27.90*	
		For 2' Lengths, Add	*37.20*	
		For Standard Strength, Deduct	*-9.30*	
		For >1,000, Deduct	*-6.68*	
33 42 11 00-0345	LF	21" Plain Joint, Extra Strength, Vitrified Clay Pipe	200.24	
		For 3' Lengths, Add	*44.70*	
		For 2' Lengths, Add	*59.60*	
		For Standard Strength, Deduct	*-14.90*	
		For >1,000, Deduct	*-10.01*	
33 42 11 00-0346	LF	24" Plain Joint, Extra Strength, Vitrified Clay Pipe	256.87	
		For 3' Lengths, Add	*58.40*	
		For 2' Lengths, Add	*77.86*	
		For Standard Strength, Deduct	*-19.47*	
		For >1,000, Deduct	*-12.84*	
33 42 11 00-0347	LF	30" Plain Joint, Extra Strength, Vitrified Clay Pipe	318.26	
		For 3' Lengths, Add	*72.82*	
		For 2' Lengths, Add	*97.09*	
		For Standard Strength, Deduct	*-24.27*	
		For >1,000, Deduct	*-15.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0348	LF	36" Plain Joint, Extra Strength, Vitrified Clay Pipe	384.93	
		For 3' Lengths, Add	*87.96*	
		For 2' Lengths, Add	*117.28*	
		For Standard Strength, Deduct	*-29.32*	
		For >1,000, Deduct	*-19.25*	

33 42 11 00-0349 Compression Joint, Extra Strength, Vitrified Clay Piping *(33 42 11 00-0336)*

Note: ASTM C425.

33 42 11 00-0350	LF	4" Compression Joint, Extra Strength, Vitrified Clay Pipe	29.15	
		For 3' Lengths, Add	*2.55*	
		For 2' Lengths, Add	*3.40*	
		For Standard Strength, Deduct	*-0.85*	
		For >1,000, Deduct	*-1.46*	
33 42 11 00-0351	LF	6" Compression Joint, Extra Strength, Vitrified Clay Pipe	37.11	
		For 3' Lengths, Add	*4.17*	
		For 2' Lengths, Add	*5.56*	
		For Standard Strength, Deduct	*-1.39*	
		For >1,000, Deduct	*-1.86*	
33 42 11 00-0352	LF	8" Compression Joint, Extra Strength, Vitrified Clay Pipe	45.41	
		For 3' Lengths, Add	*5.88*	
		For 2' Lengths, Add	*7.84*	
		For Standard Strength, Deduct	*-1.96*	
		For >1,000, Deduct	*-2.27*	
33 42 11 00-0353	LF	10" Compression Joint, Extra Strength, Vitrified Clay Pipe	59.04	
		For 3' Lengths, Add	*9.66*	
		For 2' Lengths, Add	*12.88*	
		For Standard Strength, Deduct	*-3.22*	
		For >1,000, Deduct	*-2.95*	
33 42 11 00-0354	LF	12" Compression Joint, Extra Strength, Vitrified Clay Pipe	71.58	
		For 3' Lengths, Add	*12.69*	
		For 2' Lengths, Add	*16.92*	
		For Standard Strength, Deduct	*-4.23*	
		For >1,000, Deduct	*-3.58*	
33 42 11 00-0355	LF	15" Compression Joint, Extra Strength, Vitrified Clay Pipe	109.71	
		For 3' Lengths, Add	*23.14*	
		For 2' Lengths, Add	*30.86*	
		For Standard Strength, Deduct	*-7.71*	
		For >1,000, Deduct	*-5.49*	
33 42 11 00-0356	LF	18" Compression Joint, Extra Strength, Vitrified Clay Pipe	153.57	
		For 3' Lengths, Add	*33.89*	
		For 2' Lengths, Add	*45.18*	
		For Standard Strength, Deduct	*-11.30*	
		For >1,000, Deduct	*-7.68*	
33 42 11 00-0357	LF	21" Compression Joint, Extra Strength, Vitrified Clay Pipe	223.07	
		For 3' Lengths, Add	*51.55*	
		For 2' Lengths, Add	*68.73*	
		For Standard Strength, Deduct	*-17.18*	
		For >1,000, Deduct	*-11.15*	
33 42 11 00-0358	LF	24" Compression Joint, Extra Strength, Vitrified Clay Pipe	292.92	
		For 3' Lengths, Add	*69.21*	
		For 2' Lengths, Add	*92.28*	
		For Standard Strength, Deduct	*-23.07*	
		For >1,000, Deduct	*-14.65*	
33 42 11 00-0359	LF	30" Compression Joint, Extra Strength, Vitrified Clay Pipe	476.87	
		For 3' Lengths, Add	*120.40*	
		For 2' Lengths, Add	*160.53*	
		For Standard Strength, Deduct	*-40.13*	
		For >1,000, Deduct	*-23.84*	
33 42 11 00-0360	LF	36" Compression Joint, Extra Strength, Vitrified Clay Pipe	682.93	
		For 3' Lengths, Add	*177.36*	
		For 2' Lengths, Add	*236.48*	
		For Standard Strength, Deduct	*-59.12*	
		For >1,000, Deduct	*-34.15*	

33 42 11 00-0361 Extra Strength, Vitrified Clay Pipe Fittings *(33 42 11 00-0335)*

33 42 11 00-0362 1/8 Bends, Extra Strength, Vitrified Clay *(33 42 11 00-0361)*

33 42 11 00-0363 Plain End 1/8 Bend, Extra Strength, Vitrified Clay *(33 42 11 00-0362)*

33 42 11 00-0364	EA	4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	92.33	
33 42 11 00-0365	EA	6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	126.58	
33 42 11 00-0366	EA	8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	184.99	
33 42 11 00-0367	EA	10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	259.42	
33 42 11 00-0368	EA	12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	346.67	
33 42 11 00-0369	EA	15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	856.82	
33 42 11 00-0370	EA	18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	1,212.58	
33 42 11 00-0371	EA	21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	1,901.34	
33 42 11 00-0372	EA	24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	2,192.03	
33 42 11 00-0373	EA	30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	2,541.33	
33 42 11 00-0374	EA	36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay	3,835.82	

33 42 11 00-0375 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay *(33 42 11 00-0362)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0376	EA	4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	103.46	
33 42 11 00-0377	EA	6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	150.52	
33 42 11 00-0378	EA	8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	207.39	
33 42 11 00-0379	EA	10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	283.37	
33 42 11 00-0380	EA	12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	363.12	
33 42 11 00-0381	EA	15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	959.20	
33 42 11 00-0382	EA	18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	1,401.71	
33 42 11 00-0383	EA	21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	1,432.27	
33 42 11 00-0384	EA	24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	2,811.05	
33 42 11 00-0385	EA	30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	3,122.95	
33 42 11 00-0386	EA	36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay	4,664.57	

33 42 11 00-0387 1/4 Bends, Extra Strength, Vitrified Clay *(33 42 11 00-0361)*

33 42 11 00-0388 Plain End 1/4 Bends, Extra Strength, Vitrified Clay *(33 42 11 00-0387)*

33 42 11 00-0389	EA	4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	105.95	
33 42 11 00-0390	EA	6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	142.99	
33 42 11 00-0391	EA	8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	204.19	
33 42 11 00-0392	EA	10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	280.21	
33 42 11 00-0393	EA	12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	370.08	
33 42 11 00-0394	EA	15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	882.86	
33 42 11 00-0395	EA	18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,245.07	
33 42 11 00-0396	EA	21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,942.33	
33 42 11 00-0397	EA	24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,241.81	
33 42 11 00-0398	EA	30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,603.41	
33 42 11 00-0399	EA	36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	3,904.82	

33 42 11 00-0400 Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay *(33 42 11 00-0387)*

33 42 11 00-0401	EA	4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	119.82	
33 42 11 00-0402	EA	6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	170.22	
33 42 11 00-0403	EA	8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	230.43	
33 42 11 00-0404	EA	10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	308.32	
33 42 11 00-0405	EA	12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	391.23	
33 42 11 00-0406	EA	15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	990.47	
33 42 11 00-0407	EA	18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,440.71	
33 42 11 00-0408	EA	21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,828.61	
33 42 11 00-0409	EA	24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,870.78	
33 42 11 00-0410	EA	30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	3,197.44	
33 42 11 00-0411	EA	36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	4,747.37	

33 42 11 00-0412 Wyes Or Tees, Extra Strength, Vitrified Clay *(33 42 11 00-0361)*

33 42 11 00-0413 Plain End Wyes Or Tees, Extra Strength, Vitrified Clay *(33 42 11 00-0412)*

33 42 11 00-0414	EA	4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	113.86	
33 42 11 00-0415	EA	6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	150.77	
33 42 11 00-0416	EA	8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	209.73	
33 42 11 00-0417	EA	10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	284.03	
33 42 11 00-0418	EA	12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	363.57	
33 42 11 00-0419	EA	15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	883.87	
33 42 11 00-0420	EA	18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,243.12	
33 42 11 00-0421	EA	21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,805.47	
33 42 11 00-0422	EA	24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,523.86	
33 42 11 00-0423	EA	30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,656.45	
33 42 11 00-0424	EA	36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	3,852.29	

33 42 11 00-0425 Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay *(33 42 11 00-0412)*

33 42 11 00-0426	EA	4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	139.56	
33 42 11 00-0427	EA	6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	195.62	
33 42 11 00-0428	EA	8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	262.11	
33 42 11 00-0429	EA	10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	346.30	
33 42 11 00-0430	EA	12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	436.75	
33 42 11 00-0431	EA	15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,075.82	
33 42 11 00-0432	EA	18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,559.98	
33 42 11 00-0433	EA	21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,329.64	
33 42 11 00-0434	EA	24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,094.99	
33 42 11 00-0435	EA	30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,571.63	
33 42 11 00-0436	EA	36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	5,106.17	

33 42 11 00-0437 Corrugated Metal Piping *(33 42 11)*

33 42 11 00-0438 Galvanized Corrugated Steel Piping *(33 42 11 00-0437)*

33 42 11 00-0439 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0438)*

33 42 11 00-0440 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0439)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0441	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	31.83	9.52
		For Bituminous Coated Pipe, Add	*2.92*	
		For Bituminous Coated And 25% Paved, Add	*5.96*	
		For Smooth-Flo, Add	*10.65*	
33 42 11 00-0442	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	35.65	9.97
		For Bituminous Coated Pipe, Add	*3.67*	
		For Bituminous Coated And 25% Paved, Add	*7.51*	
		For Smooth-Flo, Add	*13.41*	
33 42 11 00-0443	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	39.61	10.88
		For Bituminous Coated Pipe, Add	*4.45*	
		For Bituminous Coated And 25% Paved, Add	*9.10*	
		For Smooth-Flo, Add	*16.25*	
33 42 11 00-0444	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	44.90	11.79
		For Bituminous Coated Pipe, Add	*5.32*	
		For Bituminous Coated And 25% Paved, Add	*10.89*	
		For Smooth-Flo, Add	*19.44*	
33 42 11 00-0445	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	49.61	12.70
		For Bituminous Coated Pipe, Add	*5.99*	
		For Bituminous Coated And 25% Paved, Add	*12.25*	
		For Smooth-Flo, Add	*21.87*	
33 42 11 00-0446	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	65.58	16.32
		For Bituminous Coated Pipe, Add	*7.77*	
		For Bituminous Coated And 25% Paved, Add	*15.89*	
		For Smooth-Flo, Add	*28.38*	
33 42 11 00-0447	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	85.61	21.27
		For Bituminous Coated Pipe, Add	*9.80*	
		For Bituminous Coated And 25% Paved, Add	*20.04*	
		For Smooth-Flo, Add	*35.79*	
33 42 11 00-0448	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	97.13	25.14
		For Bituminous Coated Pipe, Add	*11.59*	
		For Bituminous Coated And 25% Paved, Add	*23.72*	
		For Smooth-Flo, Add	*42.35*	
33 42 11 00-0449	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	109.20	29.01
		For Bituminous Coated Pipe, Add	*12.99*	
		For Bituminous Coated And 25% Paved, Add	*26.57*	
		For Smooth-Flo, Add	*47.44*	

33 42 11 00-0450 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0439)*

33 42 11 00-0451	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	34.44	9.52
		For Bituminous Coated Pipe, Add	*2.96*	
		For Bituminous Coated And 25% Paved, Add	*6.86*	
		For Smooth-Flo, Add	*13.87*	
33 42 11 00-0452	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	38.86	9.97
		For Bituminous Coated Pipe, Add	*3.71*	
		For Bituminous Coated And 25% Paved, Add	*8.60*	
		For Smooth-Flo, Add	*17.39*	
33 42 11 00-0453	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	43.49	10.88
		For Bituminous Coated Pipe, Add	*4.50*	
		For Bituminous Coated And 25% Paved, Add	*10.42*	
		For Smooth-Flo, Add	*21.06*	
33 42 11 00-0454	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	49.38	11.79
		For Bituminous Coated Pipe, Add	*5.35*	
		For Bituminous Coated And 25% Paved, Add	*12.39*	
		For Smooth-Flo, Add	*25.04*	
33 42 11 00-0455	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	54.82	12.70
		For Bituminous Coated Pipe, Add	*6.05*	
		For Bituminous Coated And 25% Paved, Add	*14.02*	
		For Smooth-Flo, Add	*28.33*	
33 42 11 00-0456	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	71.94	16.32
		For Bituminous Coated Pipe, Add	*7.77*	
		For Bituminous Coated And 25% Paved, Add	*18.00*	
		For Smooth-Flo, Add	*36.38*	
33 42 11 00-0457	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	93.34	21.27
		For Bituminous Coated Pipe, Add	*9.74*	
		For Bituminous Coated And 25% Paved, Add	*22.57*	
		For Smooth-Flo, Add	*45.62*	
33 42 11 00-0458	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	105.98	25.14
		For Bituminous Coated Pipe, Add	*11.47*	
		For Bituminous Coated And 25% Paved, Add	*26.56*	
		For Smooth-Flo, Add	*53.69*	
33 42 11 00-0459	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	119.31	29.01
		For Bituminous Coated Pipe, Add	*12.88*	
		For Bituminous Coated And 25% Paved, Add	*29.85*	
		For Smooth-Flo, Add	*60.34*	
33 42 11 00-0460	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	142.14	32.87
		For Bituminous Coated Pipe, Add	*15.84*	
		For Bituminous Coated And 25% Paved, Add	*36.71*	
		For Smooth-Flo, Add	*74.20*	

33 42 11 00-0461 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0439)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0462	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	51.52	10.88
		For Bituminous Coated Pipe, Add	*5.15*	
		For Bituminous Coated And 25% Paved, Add	*9.30*	
		For Smooth-Flo, Add	*17.87*	
33 42 11 00-0463	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	58.71	11.79
		For Bituminous Coated Pipe, Add	*6.09*	
		For Bituminous Coated And 25% Paved, Add	*10.99*	
		For Smooth-Flo, Add	*21.12*	
33 42 11 00-0464	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	65.45	11.79
		For Bituminous Coated Pipe, Add	*6.90*	
		For Bituminous Coated And 25% Paved, Add	*12.46*	
		For Smooth-Flo, Add	*23.94*	
33 42 11 00-0465	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	85.09	16.32
		For Bituminous Coated Pipe, Add	*8.77*	
		For Bituminous Coated And 25% Paved, Add	*15.84*	
		For Smooth-Flo, Add	*30.45*	
33 42 11 00-0466	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	108.93	21.27
		For Bituminous Coated Pipe, Add	*10.85*	
		For Bituminous Coated And 25% Paved, Add	*19.59*	
		For Smooth-Flo, Add	*37.65*	
33 42 11 00-0467	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	124.00	25.14
		For Bituminous Coated Pipe, Add	*12.71*	
		For Bituminous Coated And 25% Paved, Add	*22.96*	
		For Smooth-Flo, Add	*44.12*	
33 42 11 00-0468	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	139.97	29.01
		For Bituminous Coated Pipe, Add	*14.35*	
		For Bituminous Coated And 25% Paved, Add	*25.92*	
		For Smooth-Flo, Add	*49.82*	
33 42 11 00-0469	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	164.95	32.87
		For Bituminous Coated Pipe, Add	*17.21*	
		For Bituminous Coated And 25% Paved, Add	*31.08*	
		For Smooth-Flo, Add	*59.74*	
33 42 11 00-0470	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	180.30	34.80
		For Bituminous Coated Pipe, Add	*18.85*	
		For Bituminous Coated And 25% Paved, Add	*34.04*	
		For Smooth-Flo, Add	*65.42*	
33 42 11 00-0471	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	218.27	42.54
		For Bituminous Coated Pipe, Add	*22.95*	
		For Bituminous Coated And 25% Paved, Add	*41.44*	
		For Smooth-Flo, Add	*79.64*	

33 42 11 00-0472 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0439)*

33 42 11 00-0473	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	123.53	21.27
		For Bituminous Coated Pipe, Add	*13.80*	
		For Bituminous Coated And 25% Paved, Add	*23.05*	
		For Smooth-Flo, Add	*32.89*	
33 42 11 00-0474	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	141.08	25.14
		For Bituminous Coated Pipe, Add	*16.17*	
		For Bituminous Coated And 25% Paved, Add	*27.01*	
		For Smooth-Flo, Add	*38.54*	
33 42 11 00-0475	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	159.35	29.01
		For Bituminous Coated Pipe, Add	*18.27*	
		For Bituminous Coated And 25% Paved, Add	*30.52*	
		For Smooth-Flo, Add	*43.55*	
33 42 11 00-0476	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	186.66	32.87
		For Bituminous Coated Pipe, Add	*21.64*	
		For Bituminous Coated And 25% Paved, Add	*36.15*	
		For Smooth-Flo, Add	*51.58*	
33 42 11 00-0477	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	204.47	34.80
		For Bituminous Coated Pipe, Add	*23.77*	
		For Bituminous Coated And 25% Paved, Add	*39.70*	
		For Smooth-Flo, Add	*56.65*	
33 42 11 00-0478	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	244.84	42.54
		For Bituminous Coated Pipe, Add	*28.43*	
		For Bituminous Coated And 25% Paved, Add	*47.50*	
		For Smooth-Flo, Add	*67.77*	
33 42 11 00-0479	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	296.49	61.87
		For Bituminous Coated Pipe, Add	*30.53*	
		For Bituminous Coated And 25% Paved, Add	*50.99*	
		For Smooth-Flo, Add	*72.76*	

33 42 11 00-0480 3" x 1" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0438)*

33 42 11 00-0481 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0480)*

33 42 11 00-0482	LF	36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	99.00	21.27
		For Bituminous Coated Pipe, Add	*10.78*	
		For Bituminous Coated And 25% Paved, Add	*24.46*	
		For Smooth-Flo, Add	*48.71*	
33 42 11 00-0483	LF	42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	112.49	25.14
		For Bituminous Coated Pipe, Add	*12.65*	
		For Bituminous Coated And 25% Paved, Add	*28.72*	
		For Smooth-Flo, Add	*57.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0484	LF	48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	126.49	29.01
		For Bituminous Coated Pipe, Add	*14.19*	
		For Bituminous Coated And 25% Paved, Add	*32.22*	
		For Smooth-Flo, Add	*64.15*	
33 42 11 00-0485	LF	54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	150.38	32.87
		For Bituminous Coated Pipe, Add	*17.34*	
		For Bituminous Coated And 25% Paved, Add	*39.35*	
		For Smooth-Flo, Add	*78.36*	
33 42 11 00-0486	LF	60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	163.85	34.80
		For Bituminous Coated Pipe, Add	*18.89*	
		For Bituminous Coated And 25% Paved, Add	*42.87*	
		For Smooth-Flo, Add	*85.36*	
33 42 11 00-0487	LF	66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	204.59	42.54
		For Bituminous Coated Pipe, Add	*24.26*	
		For Bituminous Coated And 25% Paved, Add	*55.07*	
		For Smooth-Flo, Add	*109.66*	
33 42 11 00-0488	LF	72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	252.33	61.87
		For Bituminous Coated Pipe, Add	*25.86*	
		For Bituminous Coated And 25% Paved, Add	*58.70*	
		For Smooth-Flo, Add	*116.88*	
33 42 11 00-0489	LF	78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	272.68	67.68
		For Bituminous Coated Pipe, Add	*27.46*	
		For Bituminous Coated And 25% Paved, Add	*62.34*	
		For Smooth-Flo, Add	*124.14*	
33 42 11 00-0490	LF	84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	290.36	72.51
		For Bituminous Coated Pipe, Add	*29.07*	
		For Bituminous Coated And 25% Paved, Add	*65.98*	
		For Smooth-Flo, Add	*131.39*	
33 42 11 00-0491	LF	90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	308.09	77.34
		For Bituminous Coated Pipe, Add	*30.68*	
		For Bituminous Coated And 25% Paved, Add	*69.64*	
		For Smooth-Flo, Add	*138.67*	
33 42 11 00-0492	LF	96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	326.46	82.18
		For Bituminous Coated Pipe, Add	*32.28*	
		For Bituminous Coated And 25% Paved, Add	*73.27*	
		For Smooth-Flo, Add	*145.90*	
33 42 11 00-0493	LF	102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	347.57	87.01
		For Bituminous Coated Pipe, Add	*33.90*	
		For Bituminous Coated And 25% Paved, Add	*76.94*	
		For Smooth-Flo, Add	*153.21*	

33 42 11 00-0494 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0480)*

33 42 11 00-0495	LF	54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	164.04	32.87
		For Bituminous Coated Pipe, Add	*20.07*	
		For Bituminous Coated And 25% Paved, Add	*39.33*	
		For Smooth-Flo, Add	*79.47*	
33 42 11 00-0496	LF	60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	178.96	34.80
		For Bituminous Coated Pipe, Add	*21.91*	
		For Bituminous Coated And 25% Paved, Add	*42.94*	
		For Smooth-Flo, Add	*86.76*	
33 42 11 00-0497	LF	66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	221.21	42.54
		For Bituminous Coated Pipe, Add	*27.58*	
		For Bituminous Coated And 25% Paved, Add	*54.06*	
		For Smooth-Flo, Add	*109.23*	
33 42 11 00-0498	LF	72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	270.44	61.87
		For Bituminous Coated Pipe, Add	*29.48*	
		For Bituminous Coated And 25% Paved, Add	*57.78*	
		For Smooth-Flo, Add	*116.74*	
33 42 11 00-0499	LF	78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	292.24	67.68
		For Bituminous Coated Pipe, Add	*31.38*	
		For Bituminous Coated And 25% Paved, Add	*61.50*	
		For Smooth-Flo, Add	*124.25*	
33 42 11 00-0500	LF	84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	311.47	72.51
		For Bituminous Coated Pipe, Add	*33.29*	
		For Bituminous Coated And 25% Paved, Add	*65.25*	
		For Smooth-Flo, Add	*131.83*	
33 42 11 00-0501	LF	90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	330.62	77.34
		For Bituminous Coated Pipe, Add	*35.19*	
		For Bituminous Coated And 25% Paved, Add	*68.96*	
		For Smooth-Flo, Add	*139.34*	
33 42 11 00-0502	LF	96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	350.48	82.18
		For Bituminous Coated Pipe, Add	*37.08*	
		For Bituminous Coated And 25% Paved, Add	*72.68*	
		For Smooth-Flo, Add	*146.84*	
33 42 11 00-0503	LF	102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	373.04	87.01
		For Bituminous Coated Pipe, Add	*38.99*	
		For Bituminous Coated And 25% Paved, Add	*76.42*	
		For Smooth-Flo, Add	*154.40*	
33 42 11 00-0504	LF	108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	397.85	96.67
		For Bituminous Coated Pipe, Add	*40.90*	
		For Bituminous Coated And 25% Paved, Add	*80.16*	
		For Smooth-Flo, Add	*161.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0505	LF	114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	422.09	106.35
		For Bituminous Coated Pipe, Add	*42.77*	
		For Bituminous Coated And 25% Paved, Add	*83.83*	
		For Smooth-Flo, Add	*169.37*	

33 42 11 00-0506 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0480)*

33 42 11 00-0507	LF	60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	212.49	34.80
		For Bituminous Coated Pipe, Add	*28.61*	
		For Bituminous Coated And 25% Paved, Add	*54.51*	
		For Smooth-Flo, Add	*88.85*	
33 42 11 00-0508	LF	66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	258.34	42.54
		For Bituminous Coated Pipe, Add	*35.01*	
		For Bituminous Coated And 25% Paved, Add	*66.69*	
		For Smooth-Flo, Add	*108.71*	
33 42 11 00-0509	LF	72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	310.81	61.87
		For Bituminous Coated Pipe, Add	*37.55*	
		For Bituminous Coated And 25% Paved, Add	*71.54*	
		For Smooth-Flo, Add	*116.61*	
33 42 11 00-0510	LF	78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	335.88	67.68
		For Bituminous Coated Pipe, Add	*40.10*	
		For Bituminous Coated And 25% Paved, Add	*76.40*	
		For Smooth-Flo, Add	*124.52*	
33 42 11 00-0511	LF	84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	358.35	72.51
		For Bituminous Coated Pipe, Add	*42.67*	
		For Bituminous Coated And 25% Paved, Add	*81.28*	
		For Smooth-Flo, Add	*132.48*	
33 42 11 00-0512	LF	90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	380.77	77.34
		For Bituminous Coated Pipe, Add	*45.22*	
		For Bituminous Coated And 25% Paved, Add	*86.14*	
		For Smooth-Flo, Add	*140.40*	
33 42 11 00-0513	LF	96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	403.94	82.18
		For Bituminous Coated Pipe, Add	*47.77*	
		For Bituminous Coated And 25% Paved, Add	*91.01*	
		For Smooth-Flo, Add	*148.34*	
33 42 11 00-0514	LF	102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	429.77	87.01
		For Bituminous Coated Pipe, Add	*50.34*	
		For Bituminous Coated And 25% Paved, Add	*95.89*	
		For Smooth-Flo, Add	*156.29*	
33 42 11 00-0515	LF	108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	457.79	96.67
		For Bituminous Coated Pipe, Add	*52.89*	
		For Bituminous Coated And 25% Paved, Add	*100.75*	
		For Smooth-Flo, Add	*164.21*	
33 42 11 00-0516	LF	114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	485.33	106.35
		For Bituminous Coated Pipe, Add	*55.42*	
		For Bituminous Coated And 25% Paved, Add	*105.57*	
		For Smooth-Flo, Add	*172.07*	
33 42 11 00-0517	LF	120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	511.79	116.02
		For Bituminous Coated Pipe, Add	*57.98*	
		For Bituminous Coated And 25% Paved, Add	*110.45*	
		For Smooth-Flo, Add	*180.03*	

33 42 11 00-0518 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0480)*

33 42 11 00-0519	LF	72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	348.46	61.87
		For Bituminous Coated Pipe, Add	*45.08*	
		For Bituminous Coated And 25% Paved, Add	*85.66*	
		For Smooth-Flo, Add	*114.51*	
33 42 11 00-0520	LF	78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	376.62	67.68
		For Bituminous Coated Pipe, Add	*48.25*	
		For Bituminous Coated And 25% Paved, Add	*91.68*	
		For Smooth-Flo, Add	*122.56*	
33 42 11 00-0521	LF	84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	402.18	72.51
		For Bituminous Coated Pipe, Add	*51.43*	
		For Bituminous Coated And 25% Paved, Add	*97.72*	
		For Smooth-Flo, Add	*130.64*	
33 42 11 00-0522	LF	90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	427.69	77.34
		For Bituminous Coated Pipe, Add	*54.60*	
		For Bituminous Coated And 25% Paved, Add	*103.74*	
		For Smooth-Flo, Add	*138.68*	
33 42 11 00-0523	LF	96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	453.94	82.18
		For Bituminous Coated Pipe, Add	*57.77*	
		For Bituminous Coated And 25% Paved, Add	*109.77*	
		For Smooth-Flo, Add	*146.75*	
33 42 11 00-0524	LF	102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	482.86	87.01
		For Bituminous Coated Pipe, Add	*60.95*	
		For Bituminous Coated And 25% Paved, Add	*115.81*	
		For Smooth-Flo, Add	*154.82*	
33 42 11 00-0525	LF	108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	513.97	96.67
		For Bituminous Coated Pipe, Add	*64.12*	
		For Bituminous Coated And 25% Paved, Add	*121.83*	
		For Smooth-Flo, Add	*162.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0526	LF	114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	544.57	106.35
		For Bituminous Coated Pipe, Add	*67.27*	
		For Bituminous Coated And 25% Paved, Add	*127.81*	
		For Smooth-Flo, Add	*170.86*	
33 42 11 00-0527	LF	120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	574.15	116.02
		For Bituminous Coated Pipe, Add	*70.45*	
		For Bituminous Coated And 25% Paved, Add	*133.86*	
		For Smooth-Flo, Add	*178.95*	
33 42 11 00-0528	LF	126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	605.50	125.68
		For Bituminous Coated Pipe, Add	*73.61*	
		For Bituminous Coated And 25% Paved, Add	*139.86*	
		For Smooth-Flo, Add	*186.96*	
33 42 11 00-0529	LF	132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	639.32	135.36
		For Bituminous Coated Pipe, Add	*76.79*	
		For Bituminous Coated And 25% Paved, Add	*145.90*	
		For Smooth-Flo, Add	*195.04*	
33 42 11 00-0530	LF	138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe	676.10	145.02
		For Bituminous Coated Pipe, Add	*79.97*	
		For Bituminous Coated And 25% Paved, Add	*151.95*	
		For Smooth-Flo, Add	*203.13*	

33 42 11 00-0531 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0438)*

33 42 11 00-0532 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0531)*

33 42 11 00-0533	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	126.88	29.01
		For Bituminous Coated Pipe, Add	*17.84*	
		For Bituminous Coated And 25% Paved, Add	*40.67*	
		For Smooth-Flo, Add	*64.57*	
33 42 11 00-0534	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	151.14	32.87
		For Bituminous Coated Pipe, Add	*21.86*	
		For Bituminous Coated And 25% Paved, Add	*49.84*	
		For Smooth-Flo, Add	*79.13*	
33 42 11 00-0535	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	164.52	34.80
		For Bituminous Coated Pipe, Add	*23.78*	
		For Bituminous Coated And 25% Paved, Add	*54.21*	
		For Smooth-Flo, Add	*86.07*	
33 42 11 00-0536	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	203.01	42.54
		For Bituminous Coated Pipe, Add	*29.93*	
		For Bituminous Coated And 25% Paved, Add	*68.24*	
		For Smooth-Flo, Add	*108.35*	
33 42 11 00-0537	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	250.57	61.87
		For Bituminous Coated Pipe, Add	*31.88*	
		For Bituminous Coated And 25% Paved, Add	*72.69*	
		For Smooth-Flo, Add	*115.41*	
33 42 11 00-0538	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	270.68	67.68
		For Bituminous Coated Pipe, Add	*33.83*	
		For Bituminous Coated And 25% Paved, Add	*77.13*	
		For Smooth-Flo, Add	*122.46*	
33 42 11 00-0539	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	288.09	72.51
		For Bituminous Coated Pipe, Add	*35.77*	
		For Bituminous Coated And 25% Paved, Add	*81.55*	
		For Smooth-Flo, Add	*129.48*	
33 42 11 00-0540	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	305.48	77.34
		For Bituminous Coated Pipe, Add	*37.70*	
		For Bituminous Coated And 25% Paved, Add	*85.95*	
		For Smooth-Flo, Add	*136.46*	
33 42 11 00-0541	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	323.71	82.18
		For Bituminous Coated Pipe, Add	*39.66*	
		For Bituminous Coated And 25% Paved, Add	*90.42*	
		For Smooth-Flo, Add	*143.57*	
33 42 11 00-0542	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	344.75	87.01
		For Bituminous Coated Pipe, Add	*41.67*	
		For Bituminous Coated And 25% Paved, Add	*95.00*	
		For Smooth-Flo, Add	*150.83*	

33 42 11 00-0543 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0531)*

33 42 11 00-0544	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	168.22	32.87
		For Bituminous Coated Pipe, Add	*20.90*	
		For Bituminous Coated And 25% Paved, Add	*49.12*	
		For Smooth-Flo, Add	*88.95*	
33 42 11 00-0545	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	183.51	34.80
		For Bituminous Coated Pipe, Add	*22.82*	
		For Bituminous Coated And 25% Paved, Add	*53.62*	
		For Smooth-Flo, Add	*97.09*	
33 42 11 00-0546	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	223.73	42.54
		For Bituminous Coated Pipe, Add	*28.09*	
		For Bituminous Coated And 25% Paved, Add	*66.01*	
		For Smooth-Flo, Add	*119.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0547	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	272.96	61.87
		For Bituminous Coated Pipe, Add	*29.98*	
		For Bituminous Coated And 25% Paved, Add	*70.46*	
		For Smooth-Flo, Add	*127.58*	
33 42 11 00-0548	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	295.09	67.68
		For Bituminous Coated Pipe, Add	*31.95*	
		For Bituminous Coated And 25% Paved, Add	*75.07*	
		For Smooth-Flo, Add	*135.93*	
33 42 11 00-0549	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	314.41	72.51
		For Bituminous Coated Pipe, Add	*33.88*	
		For Bituminous Coated And 25% Paved, Add	*79.61*	
		For Smooth-Flo, Add	*144.15*	
33 42 11 00-0550	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	332.74	77.34
		For Bituminous Coated Pipe, Add	*35.61*	
		For Bituminous Coated And 25% Paved, Add	*83.68*	
		For Smooth-Flo, Add	*151.52*	
33 42 11 00-0551	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	353.72	82.18
		For Bituminous Coated Pipe, Add	*37.73*	
		For Bituminous Coated And 25% Paved, Add	*88.67*	
		For Smooth-Flo, Add	*160.54*	
33 42 11 00-0552	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	376.37	87.01
		For Bituminous Coated Pipe, Add	*39.66*	
		For Bituminous Coated And 25% Paved, Add	*93.19*	
		For Smooth-Flo, Add	*168.74*	
33 42 11 00-0553	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	401.18	96.67
		For Bituminous Coated Pipe, Add	*41.56*	
		For Bituminous Coated And 25% Paved, Add	*97.68*	
		For Smooth-Flo, Add	*176.85*	
33 42 11 00-0554	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	425.84	106.35
		For Bituminous Coated Pipe, Add	*43.52*	
		For Bituminous Coated And 25% Paved, Add	*102.27*	
		For Smooth-Flo, Add	*185.18*	

33 42 11 00-0555 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0531)*

33 42 11 00-0556	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	219.06	34.80
		For Bituminous Coated Pipe, Add	*29.93*	
		For Bituminous Coated And 25% Paved, Add	*56.86*	
		For Smooth-Flo, Add	*102.65*	
33 42 11 00-0557	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	262.89	42.54
		For Bituminous Coated Pipe, Add	*35.92*	
		For Bituminous Coated And 25% Paved, Add	*68.25*	
		For Smooth-Flo, Add	*123.21*	
33 42 11 00-0558	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	315.84	61.87
		For Bituminous Coated Pipe, Add	*38.56*	
		For Bituminous Coated And 25% Paved, Add	*73.26*	
		For Smooth-Flo, Add	*132.26*	
33 42 11 00-0559	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	341.27	67.68
		For Bituminous Coated Pipe, Add	*41.18*	
		For Bituminous Coated And 25% Paved, Add	*78.25*	
		For Smooth-Flo, Add	*141.25*	
33 42 11 00-0560	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	363.93	72.51
		For Bituminous Coated Pipe, Add	*43.78*	
		For Bituminous Coated And 25% Paved, Add	*83.19*	
		For Smooth-Flo, Add	*150.17*	
33 42 11 00-0561	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	386.77	77.34
		For Bituminous Coated Pipe, Add	*46.42*	
		For Bituminous Coated And 25% Paved, Add	*88.19*	
		For Smooth-Flo, Add	*159.21*	
33 42 11 00-0562	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	410.24	82.18
		For Bituminous Coated Pipe, Add	*49.03*	
		For Bituminous Coated And 25% Paved, Add	*93.16*	
		For Smooth-Flo, Add	*168.19*	
33 42 11 00-0563	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	436.31	87.01
		For Bituminous Coated Pipe, Add	*51.64*	
		For Bituminous Coated And 25% Paved, Add	*98.12*	
		For Smooth-Flo, Add	*177.14*	
33 42 11 00-0564	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	464.75	96.67
		For Bituminous Coated Pipe, Add	*54.28*	
		For Bituminous Coated And 25% Paved, Add	*103.13*	
		For Smooth-Flo, Add	*186.17*	
33 42 11 00-0565	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	492.72	106.35
		For Bituminous Coated Pipe, Add	*56.90*	
		For Bituminous Coated And 25% Paved, Add	*108.10*	
		For Smooth-Flo, Add	*195.15*	
33 42 11 00-0566	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	519.45	116.02
		For Bituminous Coated Pipe, Add	*59.51*	
		For Bituminous Coated And 25% Paved, Add	*113.07*	
		For Smooth-Flo, Add	*204.13*	

33 42 11 00-0567 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0531)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0568	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	356.91	61.87
		For Bituminous Coated Pipe, Add	*46.77*	
		For Bituminous Coated And 25% Paved, Add	*88.87*	
		For Smooth-Flo, Add	*139.62*	
33 42 11 00-0569	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	386.16	67.68
		For Bituminous Coated Pipe, Add	*50.16*	
		For Bituminous Coated And 25% Paved, Add	*95.30*	
		For Smooth-Flo, Add	*149.73*	
33 42 11 00-0570	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	412.38	72.51
		For Bituminous Coated Pipe, Add	*53.47*	
		For Bituminous Coated And 25% Paved, Add	*101.60*	
		For Smooth-Flo, Add	*159.61*	
33 42 11 00-0571	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	438.47	77.34
		For Bituminous Coated Pipe, Add	*56.76*	
		For Bituminous Coated And 25% Paved, Add	*107.84*	
		For Smooth-Flo, Add	*169.42*	
33 42 11 00-0572	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	465.45	82.18
		For Bituminous Coated Pipe, Add	*60.08*	
		For Bituminous Coated And 25% Paved, Add	*114.14*	
		For Smooth-Flo, Add	*179.33*	
33 42 11 00-0573	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	494.91	87.01
		For Bituminous Coated Pipe, Add	*63.36*	
		For Bituminous Coated And 25% Paved, Add	*120.39*	
		For Smooth-Flo, Add	*189.14*	
33 42 11 00-0574	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	526.75	96.67
		For Bituminous Coated Pipe, Add	*66.68*	
		For Bituminous Coated And 25% Paved, Add	*126.69*	
		For Smooth-Flo, Add	*199.03*	
33 42 11 00-0575	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	558.16	106.35
		For Bituminous Coated Pipe, Add	*69.98*	
		For Bituminous Coated And 25% Paved, Add	*132.97*	
		For Smooth-Flo, Add	*208.90*	
33 42 11 00-0576	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	588.26	116.02
		For Bituminous Coated Pipe, Add	*73.27*	
		For Bituminous Coated And 25% Paved, Add	*139.22*	
		For Smooth-Flo, Add	*218.72*	
33 42 11 00-0577	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	625.54	125.68
		For Bituminous Coated Pipe, Add	*77.62*	
		For Bituminous Coated And 25% Paved, Add	*147.47*	
		For Smooth-Flo, Add	*231.68*	
33 42 11 00-0578	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	661.36	135.36
		For Bituminous Coated Pipe, Add	*81.20*	
		For Bituminous Coated And 25% Paved, Add	*154.27*	
		For Smooth-Flo, Add	*242.37*	
33 42 11 00-0579	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	700.81	145.02
		For Bituminous Coated Pipe, Add	*84.92*	
		For Bituminous Coated And 25% Paved, Add	*161.34*	
		For Smooth-Flo, Add	*253.47*	

33 42 11 00-0580 Helical Ribbed, Galvanized Corrugated Steel Piping *(33 42 11 00-0438)*

33 42 11 00-0581 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping *(33 42 11 00-0580)*

33 42 11 00-0582	LF	18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	44.82	10.88
		For Bituminous Coated Pipe, Add	*5.50*	
33 42 11 00-0583	LF	21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	51.02	11.79
		For Bituminous Coated Pipe, Add	*6.55*	
33 42 11 00-0584	LF	24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	56.79	12.70
		For Bituminous Coated Pipe, Add	*7.44*	
33 42 11 00-0585	LF	30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	74.61	16.32
		For Bituminous Coated Pipe, Add	*9.58*	
33 42 11 00-0586	LF	36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	96.67	21.27
		For Bituminous Coated Pipe, Add	*12.01*	
33 42 11 00-0587	LF	42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	110.00	25.14
		For Bituminous Coated Pipe, Add	*14.16*	
33 42 11 00-0588	LF	48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	123.95	29.01
		For Bituminous Coated Pipe, Add	*15.94*	
33 42 11 00-0589	LF	54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	147.50	32.87
		For Bituminous Coated Pipe, Add	*19.53*	
33 42 11 00-0590	LF	60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	160.91	34.80
		For Bituminous Coated Pipe, Add	*21.32*	

33 42 11 00-0591 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping *(33 42 11 00-0580)*

33 42 11 00-0592	LF	18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	48.76	10.88
		For Bituminous Coated Pipe, Add	*6.36*	
33 42 11 00-0593	LF	21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	55.62	11.79
		For Bituminous Coated Pipe, Add	*7.56*	
33 42 11 00-0594	LF	24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	62.03	12.70
		For Bituminous Coated Pipe, Add	*8.58*	
33 42 11 00-0595	LF	30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	81.12	16.32
		For Bituminous Coated Pipe, Add	*11.00*	
33 42 11 00-0596	LF	36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	104.51	21.27
		For Bituminous Coated Pipe, Add	*13.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0597	LF	42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	119.18	25.14
		For Bituminous Coated Pipe, Add	*16.16*	
33 42 11 00-0598	LF	48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	134.43	29.01
		For Bituminous Coated Pipe, Add	*18.23*	
33 42 11 00-0599	LF	54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	159.28	32.87
		For Bituminous Coated Pipe, Add	*22.08*	
33 42 11 00-0600	LF	60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	174.03	34.80
		For Bituminous Coated Pipe, Add	*24.16*	
33 42 11 00-0601	LF	66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	213.25	42.54
		For Bituminous Coated Pipe, Add	*30.02*	
33 42 11 00-0602	LF	72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	261.90	61.87
		For Bituminous Coated Pipe, Add	*32.08*	
33 42 11 00-0603	LF	78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	283.28	67.68
		For Bituminous Coated Pipe, Add	*34.17*	

33 42 11 00-0604 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping *(33 42 11 00-0580)*

33 42 11 00-0605	LF	30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	94.32	16.32
		For Bituminous Coated Pipe, Add	*11.50*	
33 42 11 00-0606	LF	36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	120.29	21.27
		For Bituminous Coated Pipe, Add	*14.21*	
33 42 11 00-0607	LF	42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	137.66	25.14
		For Bituminous Coated Pipe, Add	*16.72*	
33 42 11 00-0608	LF	48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	155.50	29.01
		For Bituminous Coated Pipe, Add	*18.89*	
33 42 11 00-0609	LF	54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	183.03	32.87
		For Bituminous Coated Pipe, Add	*22.55*	
33 42 11 00-0610	LF	60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	200.44	34.80
		For Bituminous Coated Pipe, Add	*24.76*	
33 42 11 00-0611	LF	66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	242.23	42.54
		For Bituminous Coated Pipe, Add	*30.04*	
33 42 11 00-0612	LF	72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	293.49	61.87
		For Bituminous Coated Pipe, Add	*32.22*	
33 42 11 00-0613	LF	78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	317.47	67.68
		For Bituminous Coated Pipe, Add	*34.42*	
33 42 11 00-0614	LF	84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	338.73	72.51
		For Bituminous Coated Pipe, Add	*36.61*	
33 42 11 00-0615	LF	90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	359.97	77.34
		For Bituminous Coated Pipe, Add	*38.80*	
33 42 11 00-0616	LF	96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	381.92	82.18
		For Bituminous Coated Pipe, Add	*40.98*	
33 42 11 00-0617	LF	102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe	405.23	87.01
		For Bituminous Coated Pipe, Add	*42.93*	

33 42 11 00-0618 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0438)*

33 42 11 00-0619 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0618)*

33 42 11 00-0620	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	16.61	5.44
		For Bituminous Coated Pipe, Add	*1.40*	
33 42 11 00-0621	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	17.79	5.44
		For Bituminous Coated Pipe, Add	*1.69*	
33 42 11 00-0622	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	20.78	6.80
		For Bituminous Coated Pipe, Add	*1.86*	
33 42 11 00-0623	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	22.27	6.80
		For Bituminous Coated Pipe, Add	*2.22*	
33 42 11 00-0624	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	26.27	8.16
		For Bituminous Coated Pipe, Add	*2.33*	
33 42 11 00-0625	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	28.16	8.16
		For Bituminous Coated Pipe, Add	*2.80*	

33 42 11 00-0626 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping *(33 42 11 00-0618)*

33 42 11 00-0627	LF	6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	16.78	5.44
		For Bituminous Coated Pipe, Add	*1.39*	
33 42 11 00-0628	LF	6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	17.91	5.44
		For Bituminous Coated Pipe, Add	*1.65*	
33 42 11 00-0629	LF	8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	20.94	6.80
		For Bituminous Coated Pipe, Add	*1.82*	
33 42 11 00-0630	LF	8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	22.52	6.80
		For Bituminous Coated Pipe, Add	*2.19*	
33 42 11 00-0631	LF	10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	26.55	8.16
		For Bituminous Coated Pipe, Add	*2.31*	
33 42 11 00-0632	LF	10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	28.49	8.16
		For Bituminous Coated Pipe, Add	*2.76*	

33 42 11 00-0633 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings *(33 42 11 00-0618)*

33 42 11 00-0634	EA	6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	8.68	
		For Bituminous Coated Pipe, Add	*1.95*	
33 42 11 00-0635	EA	8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	11.48	
		For Bituminous Coated Pipe, Add	*2.58*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0636	EA	10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	14.08	
		For Bituminous Coated Pipe, Add	*3.17*	
33 42 11 00-0637	EA	6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	31.29	
		For Bituminous Coated Pipe, Add	*4.32*	
33 42 11 00-0638	EA	6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	7.86	
		For Bituminous Coated Pipe, Add	*0.99*	
33 42 11 00-0639	EA	8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe	9.80	
		For Bituminous Coated Pipe, Add	*1.48*	

33 42 11 00-0640 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0438)*

33 42 11 00-0641 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0640)*

33 42 11 00-0642	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	49.05	9.52
33 42 11 00-0643	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	57.36	9.97
33 42 11 00-0644	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	65.93	10.88
33 42 11 00-0645	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	76.35	11.79
33 42 11 00-0646	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	85.05	12.70
33 42 11 00-0647	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	111.49	16.32
33 42 11 00-0648	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	143.59	21.27
33 42 11 00-0649	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	165.70	25.14
33 42 11 00-0650	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	186.02	29.01

33 42 11 00-0651 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0640)*

33 42 11 00-0652	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	55.39	9.52
33 42 11 00-0653	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	65.21	9.97
33 42 11 00-0654	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	75.34	10.88
33 42 11 00-0655	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	87.24	11.79
33 42 11 00-0656	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	97.70	12.70
33 42 11 00-0657	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	127.01	16.32
33 42 11 00-0658	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	162.33	21.27
33 42 11 00-0659	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	187.21	25.14
33 42 11 00-0660	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	210.57	29.01
33 42 11 00-0661	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	254.39	32.87

33 42 11 00-0662 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0640)*

33 42 11 00-0663	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	94.93	10.88
33 42 11 00-0664	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	110.12	11.79
33 42 11 00-0665	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	123.72	12.70
33 42 11 00-0666	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	159.52	16.32
33 42 11 00-0667	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	193.36	21.27
33 42 11 00-0668	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	232.68	25.14
33 42 11 00-0669	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	262.45	29.01
33 42 11 00-0670	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	313.60	32.87
33 42 11 00-0671	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	342.65	34.80
33 42 11 00-0672	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	419.36	42.54

33 42 11 00-0673 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0640)*

33 42 11 00-0674	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	236.96	21.27
33 42 11 00-0675	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	274.09	25.14
33 42 11 00-0676	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	309.50	29.01
33 42 11 00-0677	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	366.30	32.87
33 42 11 00-0678	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	401.32	34.80
33 42 11 00-0679	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	483.80	42.54
33 42 11 00-0680	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	552.44	61.87

33 42 11 00-0681 3" x 1" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0438)*

33 42 11 00-0682 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0681)*

33 42 11 00-0683	LF	36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	179.57	21.27
33 42 11 00-0684	LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	207.19	25.14
33 42 11 00-0685	LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	232.54	29.01
33 42 11 00-0686	LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	280.85	32.87
33 42 11 00-0687	LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	305.81	34.80
33 42 11 00-0688	LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	388.52	42.54
33 42 11 00-0689	LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	448.14	61.87
33 42 11 00-0690	LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	480.32	67.68
33 42 11 00-0691	LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	509.90	72.51
33 42 11 00-0692	LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	539.52	77.34
33 42 11 00-0693	LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	569.76	82.18
33 42 11 00-0694	LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	602.81	87.01

33 42 11 00-0695 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0681)*

33 42 11 00-0696	LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	314.73	32.87

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0697	LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	343.26	34.80
33 42 11 00-0698	LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	429.77	42.54
33 42 11 00-0699	LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	493.00	61.87
33 42 11 00-0700	LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	528.85	67.68
33 42 11 00-0701	LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	562.24	72.51
33 42 11 00-0702	LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	595.41	77.34
33 42 11 00-0703	LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	629.29	82.18
33 42 11 00-0704	LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	666.04	87.01
33 42 11 00-0705	LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	704.94	96.67
33 42 11 00-0706	LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	743.02	106.35

33 42 11 00-0707 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0681)*

33 42 11 00-0708	LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	428.47	34.80
33 42 11 00-0709	LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	524.56	42.54
33 42 11 00-0710	LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	596.01	61.87
33 42 11 00-0711	LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	640.11	67.68
33 42 11 00-0712	LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	681.72	72.51
33 42 11 00-0713	LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	723.17	77.34
33 42 11 00-0714	LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	765.37	82.18
33 42 11 00-0715	LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	810.33	87.01
33 42 11 00-0716	LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	857.38	96.67
33 42 11 00-0717	LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	903.84	106.35
33 42 11 00-0718	LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	949.43	116.02

33 42 11 00-0719 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0681)*

33 42 11 00-0720	LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	689.87	61.87
33 42 11 00-0721	LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	741.62	67.68
33 42 11 00-0722	LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	790.94	72.51
33 42 11 00-0723	LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	840.06	77.34
33 42 11 00-0724	LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	889.99	82.18
33 42 11 00-0725	LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	942.65	87.01
33 42 11 00-0726	LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	997.41	96.67
33 42 11 00-0727	LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,051.53	106.35
33 42 11 00-0728	LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,104.83	116.02
33 42 11 00-0729	LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,159.76	125.68
33 42 11 00-0730	LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,217.31	135.36
33 42 11 00-0731	LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	1,277.83	145.02

33 42 11 00-0732 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0438)*

33 42 11 00-0733 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0732)*

33 42 11 00-0734	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	225.23	29.01
33 42 11 00-0735	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	272.81	32.87
33 42 11 00-0736	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	296.60	34.80
33 42 11 00-0737	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	371.40	42.54
33 42 11 00-0738	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	429.62	61.87
33 42 11 00-0739	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	460.34	67.68
33 42 11 00-0740	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	488.27	72.51
33 42 11 00-0741	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	516.15	77.34
33 42 11 00-0742	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	545.01	82.18
33 42 11 00-0743	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	577.04	87.01

33 42 11 00-0744 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0732)*

33 42 11 00-0745	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	313.05	32.87
33 42 11 00-0746	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	341.42	34.80
33 42 11 00-0747	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	420.29	42.54
33 42 11 00-0748	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	482.44	61.87
33 42 11 00-0749	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	517.93	67.68
33 42 11 00-0750	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	550.35	72.51
33 42 11 00-0751	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	580.48	77.34
33 42 11 00-0752	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	615.87	82.18
33 42 11 00-0753	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	651.65	87.01
33 42 11 00-0754	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	689.40	96.67
33 42 11 00-0755	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	727.37	106.35

33 42 11 00-0756 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0732)*

33 42 11 00-0757	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	431.26	34.80
33 42 11 00-0758	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	519.68	42.54
33 42 11 00-0759	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	591.23	61.87
33 42 11 00-0760	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	634.97	67.68
33 42 11 00-0761	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	675.82	72.51
33 42 11 00-0762	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	717.16	77.34

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0763	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	758.97	82.18
33 42 11 00-0764	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	803.29	87.01
33 42 11 00-0765	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	850.22	96.67
33 42 11 00-0766	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	896.53	106.35
33 42 11 00-0767	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	941.58	116.02

33 42 11 00-0768 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping *(33 42 11 00-0732)*

33 42 11 00-0769	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	689.83	61.87
33 42 11 00-0770	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	742.75	67.68
33 42 11 00-0771	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	792.23	72.51
33 42 11 00-0772	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	841.33	77.34
33 42 11 00-0773	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	891.49	82.18
33 42 11 00-0774	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	944.06	87.01
33 42 11 00-0775	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	999.06	96.67
33 42 11 00-0776	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,053.64	106.35
33 42 11 00-0777	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,106.83	116.02
33 42 11 00-0778	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,174.51	125.68
33 42 11 00-0779	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,235.45	135.36
33 42 11 00-0780	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe	1,300.93	145.02

33 42 11 00-0781 Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0437)*

33 42 11 00-0782 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0781)*

33 42 11 00-0783 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0782)*

33 42 11 00-0784	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	36.53	9.97
		For Bituminous Coated Pipe, Add	*4.00*	
		For Bituminous Coated And 25% Paved, Add	*9.66*	
		For Smooth-Flo, Add	*15.94*	
33 42 11 00-0785	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	40.40	10.88
		For Bituminous Coated Pipe, Add	*4.77*	
		For Bituminous Coated And 25% Paved, Add	*11.54*	
		For Smooth-Flo, Add	*19.04*	
33 42 11 00-0786	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	45.99	11.79
		For Bituminous Coated Pipe, Add	*5.75*	
		For Bituminous Coated And 25% Paved, Add	*13.89*	
		For Smooth-Flo, Add	*22.92*	
33 42 11 00-0787	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	51.46	12.70
		For Bituminous Coated Pipe, Add	*6.62*	
		For Bituminous Coated And 25% Paved, Add	*16.01*	
		For Smooth-Flo, Add	*26.40*	
33 42 11 00-0788	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	67.25	16.32
		For Bituminous Coated Pipe, Add	*8.41*	
		For Bituminous Coated And 25% Paved, Add	*20.33*	
		For Smooth-Flo, Add	*33.53*	
33 42 11 00-0789	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	88.67	21.27
		For Bituminous Coated Pipe, Add	*10.84*	
		For Bituminous Coated And 25% Paved, Add	*26.22*	
		For Smooth-Flo, Add	*43.25*	

33 42 11 00-0790 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0782)*

33 42 11 00-0791	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	39.77	9.97
		For Bituminous Coated Pipe, Add	*4.15*	
		For Bituminous Coated And 25% Paved, Add	*9.70*	
		For Smooth-Flo, Add	*15.91*	
33 42 11 00-0792	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	44.37	10.88
		For Bituminous Coated Pipe, Add	*4.98*	
		For Bituminous Coated And 25% Paved, Add	*11.64*	
		For Smooth-Flo, Add	*19.09*	
33 42 11 00-0793	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	50.41	11.79
		For Bituminous Coated Pipe, Add	*5.91*	
		For Bituminous Coated And 25% Paved, Add	*13.83*	
		For Smooth-Flo, Add	*22.69*	
33 42 11 00-0794	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	56.58	12.70
		For Bituminous Coated Pipe, Add	*6.82*	
		For Bituminous Coated And 25% Paved, Add	*15.95*	
		For Smooth-Flo, Add	*26.16*	
33 42 11 00-0795	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	73.64	16.32
		For Bituminous Coated Pipe, Add	*8.63*	
		For Bituminous Coated And 25% Paved, Add	*20.20*	
		For Smooth-Flo, Add	*33.13*	
33 42 11 00-0796	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	96.27	21.27
		For Bituminous Coated Pipe, Add	*11.00*	
		For Bituminous Coated And 25% Paved, Add	*25.73*	
		For Smooth-Flo, Add	*42.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0797	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	110.16	25.14
		For Bituminous Coated Pipe, Add	*13.10*	
		For Bituminous Coated And 25% Paved, Add	*30.65*	
		For Smooth-Flo, Add	*50.28*	

33 42 11 00-0798 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0782)*

33 42 11 00-0799	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	57.51	11.60
		For Bituminous Coated Pipe, Add	*5.38*	
		For Bituminous Coated And 25% Paved, Add	*11.97*	
		For Smooth-Flo, Add	*18.41*	
33 42 11 00-0800	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	65.39	12.57
		For Bituminous Coated Pipe, Add	*6.38*	
		For Bituminous Coated And 25% Paved, Add	*14.20*	
		For Smooth-Flo, Add	*21.84*	
33 42 11 00-0801	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	73.25	13.54
		For Bituminous Coated Pipe, Add	*7.32*	
		For Bituminous Coated And 25% Paved, Add	*16.29*	
		For Smooth-Flo, Add	*25.05*	
33 42 11 00-0802	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	94.92	17.41
		For Bituminous Coated Pipe, Add	*9.22*	
		For Bituminous Coated And 25% Paved, Add	*20.51*	
		For Smooth-Flo, Add	*31.54*	
33 42 11 00-0803	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	111.78	21.27
		For Bituminous Coated Pipe, Add	*11.53*	
		For Bituminous Coated And 25% Paved, Add	*25.66*	
		For Smooth-Flo, Add	*39.46*	
33 42 11 00-0804	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	128.05	25.14
		For Bituminous Coated Pipe, Add	*13.64*	
		For Bituminous Coated And 25% Paved, Add	*30.35*	
		For Smooth-Flo, Add	*46.67*	
33 42 11 00-0805	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	149.02	29.01
		For Bituminous Coated Pipe, Add	*16.17*	
		For Bituminous Coated And 25% Paved, Add	*35.99*	
		For Smooth-Flo, Add	*55.35*	
33 42 11 00-0806	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	166.94	32.87
		For Bituminous Coated Pipe, Add	*17.86*	
		For Bituminous Coated And 25% Paved, Add	*39.75*	
		For Smooth-Flo, Add	*61.12*	

33 42 11 00-0807 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0782)*

33 42 11 00-0808	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	126.38	21.27
		For Bituminous Coated Pipe, Add	*13.90*	
		For Bituminous Coated And 25% Paved, Add	*29.25*	
		For Smooth-Flo, Add	*36.89*	
33 42 11 00-0809	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	145.08	25.14
		For Bituminous Coated Pipe, Add	*16.39*	
		For Bituminous Coated And 25% Paved, Add	*34.51*	
		For Smooth-Flo, Add	*43.52*	
33 42 11 00-0810	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	168.32	29.01
		For Bituminous Coated Pipe, Add	*19.29*	
		For Bituminous Coated And 25% Paved, Add	*40.60*	
		For Smooth-Flo, Add	*51.21*	
33 42 11 00-0811	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	188.75	32.87
		For Bituminous Coated Pipe, Add	*21.38*	
		For Bituminous Coated And 25% Paved, Add	*45.02*	
		For Smooth-Flo, Add	*56.77*	
33 42 11 00-0812	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	206.71	34.80
		For Bituminous Coated Pipe, Add	*23.48*	
		For Bituminous Coated And 25% Paved, Add	*49.42*	
		For Smooth-Flo, Add	*62.33*	

33 42 11 00-0813 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0781)*

33 42 11 00-0814 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0813)*

33 42 11 00-0815	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	166.73	32.87
		For Bituminous Coated Pipe, Add	*20.61*	
		For Bituminous Coated And 25% Paved, Add	*62.64*	
		For Smooth-Flo, Add	*70.06*	
33 42 11 00-0816	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	182.17	34.80
		For Bituminous Coated Pipe, Add	*22.55*	
		For Bituminous Coated And 25% Paved, Add	*68.55*	
		For Smooth-Flo, Add	*76.67*	
33 42 11 00-0817	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	224.91	42.54
		For Bituminous Coated Pipe, Add	*28.32*	
		For Bituminous Coated And 25% Paved, Add	*86.10*	
		For Smooth-Flo, Add	*96.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0818	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	274.86	61.87
		For Bituminous Coated Pipe, Add	*30.36*	
		For Bituminous Coated And 25% Paved, Add	*92.31*	
		For Smooth-Flo, Add	*103.24*	
33 42 11 00-0819	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	297.90	67.68
		For Bituminous Coated Pipe, Add	*32.51*	
		For Bituminous Coated And 25% Paved, Add	*98.82*	
		For Smooth-Flo, Add	*110.53*	
33 42 11 00-0820	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	318.35	72.51
		For Bituminous Coated Pipe, Add	*34.67*	
		For Bituminous Coated And 25% Paved, Add	*105.38*	
		For Smooth-Flo, Add	*117.86*	
33 42 11 00-0821	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	338.74	77.34
		For Bituminous Coated Pipe, Add	*36.81*	
		For Bituminous Coated And 25% Paved, Add	*111.90*	
		For Smooth-Flo, Add	*125.15*	
33 42 11 00-0822	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	359.81	82.18
		For Bituminous Coated Pipe, Add	*38.95*	
		For Bituminous Coated And 25% Paved, Add	*118.40*	
		For Smooth-Flo, Add	*132.42*	

33 42 11 00-0823 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0813)*

33 42 11 00-0824	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	215.73	34.80
		For Bituminous Coated Pipe, Add	*29.26*	
		For Bituminous Coated And 25% Paved, Add	*76.67*	
		For Smooth-Flo, Add	*90.71*	
33 42 11 00-0825	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	262.13	42.54
		For Bituminous Coated Pipe, Add	*35.77*	
		For Bituminous Coated And 25% Paved, Add	*93.71*	
		For Smooth-Flo, Add	*110.88*	
33 42 11 00-0826	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	315.39	61.87
		For Bituminous Coated Pipe, Add	*38.47*	
		For Bituminous Coated And 25% Paved, Add	*100.79*	
		For Smooth-Flo, Add	*119.26*	
33 42 11 00-0827	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	341.70	67.68
		For Bituminous Coated Pipe, Add	*41.27*	
		For Bituminous Coated And 25% Paved, Add	*108.12*	
		For Smooth-Flo, Add	*127.93*	
33 42 11 00-0828	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	365.41	72.51
		For Bituminous Coated Pipe, Add	*44.08*	
		For Bituminous Coated And 25% Paved, Add	*115.48*	
		For Smooth-Flo, Add	*136.64*	
33 42 11 00-0829	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	389.10	77.34
		For Bituminous Coated Pipe, Add	*46.88*	
		For Bituminous Coated And 25% Paved, Add	*122.83*	
		For Smooth-Flo, Add	*145.33*	
33 42 11 00-0830	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	413.45	82.18
		For Bituminous Coated Pipe, Add	*49.68*	
		For Bituminous Coated And 25% Paved, Add	*130.15*	
		For Smooth-Flo, Add	*154.00*	
33 42 11 00-0831	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	440.58	87.01
		For Bituminous Coated Pipe, Add	*52.50*	
		For Bituminous Coated And 25% Paved, Add	*137.54*	
		For Smooth-Flo, Add	*162.74*	
33 42 11 00-0832	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	469.87	96.67
		For Bituminous Coated Pipe, Add	*55.30*	
		For Bituminous Coated And 25% Paved, Add	*144.89*	
		For Smooth-Flo, Add	*171.44*	
33 42 11 00-0833	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	500.17	106.35
		For Bituminous Coated Pipe, Add	*58.39*	
		For Bituminous Coated And 25% Paved, Add	*152.97*	
		For Smooth-Flo, Add	*181.00*	

33 42 11 00-0834 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0813)*

33 42 11 00-0835	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	353.03	61.87
		For Bituminous Coated Pipe, Add	*46.00*	
		For Bituminous Coated And 25% Paved, Add	*109.48*	
		For Smooth-Flo, Add	*118.90*	
33 42 11 00-0836	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	382.46	67.68
		For Bituminous Coated Pipe, Add	*49.42*	
		For Bituminous Coated And 25% Paved, Add	*117.62*	
		For Smooth-Flo, Add	*127.75*	
33 42 11 00-0837	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	409.27	72.51
		For Bituminous Coated Pipe, Add	*52.85*	
		For Bituminous Coated And 25% Paved, Add	*125.78*	
		For Smooth-Flo, Add	*136.62*	
33 42 11 00-0838	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	435.99	77.34
		For Bituminous Coated Pipe, Add	*56.26*	
		For Bituminous Coated And 25% Paved, Add	*133.90*	
		For Smooth-Flo, Add	*145.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0839	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	463.45	82.18
		For Bituminous Coated Pipe, Add	*59.68*	
		For Bituminous Coated And 25% Paved, Add	*142.03*	
		For Smooth-Flo, Add	*154.26*	
33 42 11 00-0840	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	493.64	87.01
		For Bituminous Coated Pipe, Add	*63.11*	
		For Bituminous Coated And 25% Paved, Add	*150.20*	
		For Smooth-Flo, Add	*163.14*	
33 42 11 00-0841	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	526.02	96.67
		For Bituminous Coated Pipe, Add	*66.53*	
		For Bituminous Coated And 25% Paved, Add	*158.35*	
		For Smooth-Flo, Add	*171.99*	
33 42 11 00-0842	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	559.16	106.35
		For Bituminous Coated Pipe, Add	*70.18*	
		For Bituminous Coated And 25% Paved, Add	*167.04*	
		For Smooth-Flo, Add	*181.43*	
33 42 11 00-0843	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	594.74	116.02
		For Bituminous Coated Pipe, Add	*74.57*	
		For Bituminous Coated And 25% Paved, Add	*177.48*	
		For Smooth-Flo, Add	*192.76*	

33 42 11 00-0844 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0781)*

33 42 11 00-0845 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0844)*

33 42 11 00-0846	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	319.08	61.87
		For Bituminous Coated Pipe, Add	*39.21*	
		For Bituminous Coated And 25% Paved, Add	*95.67*	
		For Smooth-Flo, Add	*121.74*	
33 42 11 00-0847	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	345.03	67.68
		For Bituminous Coated Pipe, Add	*41.93*	
		For Bituminous Coated And 25% Paved, Add	*102.32*	
		For Smooth-Flo, Add	*130.21*	
33 42 11 00-0848	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	368.17	72.51
		For Bituminous Coated Pipe, Add	*44.63*	
		For Bituminous Coated And 25% Paved, Add	*108.90*	
		For Smooth-Flo, Add	*138.58*	
33 42 11 00-0849	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	391.31	77.34
		For Bituminous Coated Pipe, Add	*47.32*	
		For Bituminous Coated And 25% Paved, Add	*115.47*	
		For Smooth-Flo, Add	*146.94*	
33 42 11 00-0850	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	415.26	82.18
		For Bituminous Coated Pipe, Add	*50.04*	
		For Bituminous Coated And 25% Paved, Add	*122.09*	
		For Smooth-Flo, Add	*155.37*	
33 42 11 00-0851	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	442.09	87.01
		For Bituminous Coated Pipe, Add	*52.80*	
		For Bituminous Coated And 25% Paved, Add	*128.83*	
		For Smooth-Flo, Add	*163.94*	
33 42 11 00-0852	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	471.08	96.67
		For Bituminous Coated Pipe, Add	*55.54*	
		For Bituminous Coated And 25% Paved, Add	*135.53*	
		For Smooth-Flo, Add	*172.46*	
33 42 11 00-0853	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	503.17	106.35
		For Bituminous Coated Pipe, Add	*58.99*	
		For Bituminous Coated And 25% Paved, Add	*143.93*	
		For Smooth-Flo, Add	*183.15*	

33 42 11 00-0854 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch *(33 42 11 00-0844)*

33 42 11 00-0855	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	360.75	61.87
		For Bituminous Coated Pipe, Add	*47.54*	
		For Bituminous Coated And 25% Paved, Add	*107.44*	
		For Smooth-Flo, Add	*116.72*	
33 42 11 00-0856	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	390.04	67.68
		For Bituminous Coated Pipe, Add	*50.94*	
		For Bituminous Coated And 25% Paved, Add	*115.12*	
		For Smooth-Flo, Add	*125.05*	
33 42 11 00-0857	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	416.56	72.51
		For Bituminous Coated Pipe, Add	*54.31*	
		For Bituminous Coated And 25% Paved, Add	*122.74*	
		For Smooth-Flo, Add	*133.33*	
33 42 11 00-0858	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	443.19	77.34
		For Bituminous Coated Pipe, Add	*57.70*	
		For Bituminous Coated And 25% Paved, Add	*130.40*	
		For Smooth-Flo, Add	*141.65*	
33 42 11 00-0859	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	469.96	82.18
		For Bituminous Coated Pipe, Add	*60.98*	
		For Bituminous Coated And 25% Paved, Add	*137.81*	
		For Smooth-Flo, Add	*149.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0860	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	500.64	87.01
		For Bituminous Coated Pipe, Add	*64.51*	
		For Bituminous Coated And 25% Paved, Add	*145.79*	
		For Smooth-Flo, Add	*158.37*	
33 42 11 00-0861	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	533.08	96.67
		For Bituminous Coated Pipe, Add	*67.94*	
		For Bituminous Coated And 25% Paved, Add	*153.55*	
		For Smooth-Flo, Add	*166.80*	
33 42 11 00-0862	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	568.58	106.35
		For Bituminous Coated Pipe, Add	*72.07*	
		For Bituminous Coated And 25% Paved, Add	*162.87*	
		For Smooth-Flo, Add	*176.93*	
33 42 11 00-0863	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	601.71	116.02
		For Bituminous Coated Pipe, Add	*75.96*	
		For Bituminous Coated And 25% Paved, Add	*171.68*	
		For Smooth-Flo, Add	*186.49*	

33 42 11 00-0864 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0781)*

33 42 11 00-0865 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0864)*

33 42 11 00-0866	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	57.41	9.97
33 42 11 00-0867	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	65.36	10.88
33 42 11 00-0868	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	76.10	11.79
33 42 11 00-0869	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	86.21	12.70
33 42 11 00-0870	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	111.52	16.32
33 42 11 00-0871	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	146.18	21.27

33 42 11 00-0872 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0864)*

33 42 11 00-0873	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	64.87	9.97
33 42 11 00-0874	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	74.46	10.88
33 42 11 00-0875	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	86.27	11.79
33 42 11 00-0876	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	98.03	12.70
33 42 11 00-0877	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	126.21	16.32
33 42 11 00-0878	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	163.65	21.27
33 42 11 00-0879	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	190.59	25.14

33 42 11 00-0880 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0864)*

33 42 11 00-0881	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	96.79	10.88
33 42 11 00-0882	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	112.71	11.79
33 42 11 00-0883	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	127.97	12.70
33 42 11 00-0884	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	163.58	16.32
33 42 11 00-0885	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	208.79	21.27
33 42 11 00-0886	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	243.16	25.14
33 42 11 00-0887	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	286.45	29.01
33 42 11 00-0888	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	318.30	32.87

33 42 11 00-0889 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0864)*

33 42 11 00-0890	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	244.19	21.27
33 42 11 00-0891	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	284.46	25.14
33 42 11 00-0892	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	333.28	29.01
33 42 11 00-0893	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	371.25	32.87
33 42 11 00-0894	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	406.65	34.80

33 42 11 00-0895 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0781)*

33 42 11 00-0896 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0895)*

33 42 11 00-0897	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	321.38	32.87
33 42 11 00-0898	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	351.08	34.80
33 42 11 00-0899	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	438.85	42.54
33 42 11 00-0900	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	503.91	61.87
33 42 11 00-0901	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	542.84	67.68
33 42 11 00-0902	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	579.23	72.51
33 42 11 00-0903	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	615.48	77.34
33 42 11 00-0904	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	652.50	82.18

33 42 11 00-0905 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch *(33 42 11 00-0895)*

33 42 11 00-0906	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	436.45	34.80
33 42 11 00-0907	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	533.88	42.54
33 42 11 00-0908	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	607.34	61.87
33 42 11 00-0909	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	654.52	67.68
33 42 11 00-0910	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	699.19	72.51
33 42 11 00-0911	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	743.82	77.34
33 42 11 00-0912	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	789.05	82.18

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0913	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	837.20	87.01
33 42 11 00-0914	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	887.43	96.67
33 42 11 00-0915	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	940.76	106.35
33 42 11 00-0916		**10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch** *(33 42 11 00-0895)*		
33 42 11 00-0917	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	701.17	61.87
33 42 11 00-0918	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	756.11	67.68
33 42 11 00-0919	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	808.53	72.51
33 42 11 00-0920	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	860.70	77.34
33 42 11 00-0921	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	913.65	82.18
33 42 11 00-0922	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	969.48	87.01
33 42 11 00-0923	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,027.44	96.67
33 42 11 00-0924	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,087.81	106.35
33 42 11 00-0925	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,156.10	116.02
33 42 11 00-0926		**125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch** *(33 42 11 00-0781)*		
33 42 11 00-0927		**12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch** *(33 42 11 00-0926)*		
33 42 11 00-0928	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	598.90	61.87
33 42 11 00-0929	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	643.97	67.68
33 42 11 00-0930	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	686.01	72.51
33 42 11 00-0931	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	728.01	77.34
33 42 11 00-0932	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	770.96	82.18
33 42 11 00-0933	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	817.15	87.01
33 42 11 00-0934	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	865.35	96.67
33 42 11 00-0935	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	921.53	106.35
33 42 11 00-0936		**10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch** *(33 42 11 00-0926)*		
33 42 11 00-0937	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	698.98	61.87
33 42 11 00-0938	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	751.99	67.68
33 42 11 00-0939	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	802.16	72.51
33 42 11 00-0940	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	852.55	77.34
33 42 11 00-0941	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	902.33	82.18
33 42 11 00-0942	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	957.69	87.01
33 42 11 00-0943	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,014.22	96.67
33 42 11 00-0944	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,078.72	106.35
33 42 11 00-0945	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,138.98	116.02
33 42 11 00-0946		**Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-0437)*		
33 42 11 00-0947		**2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-0946)*		
33 42 11 00-0948		**16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-0947)*		
33 42 11 00-0949	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	34.50	9.52
		For 1/2 Bituminous Coated And 25% Paved, Add	*5.95*	
33 42 11 00-0950	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	39.02	9.97
		For 1/2 Bituminous Coated And 25% Paved, Add	*7.49*	
33 42 11 00-0951	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	43.70	10.88
		For 1/2 Bituminous Coated And 25% Paved, Add	*9.08*	
33 42 11 00-0952	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	49.77	11.79
		For 1/2 Bituminous Coated And 25% Paved, Add	*10.85*	
33 42 11 00-0953	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	55.13	12.70
		For 1/2 Bituminous Coated And 25% Paved, Add	*12.23*	
33 42 11 00-0954	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	72.73	16.32
		For 1/2 Bituminous Coated And 25% Paved, Add	*15.86*	
33 42 11 00-0955	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	94.64	21.27
		For 1/2 Bituminous Coated And 25% Paved, Add	*20.01*	
33 42 11 00-0956	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	107.79	25.14
		For 1/2 Bituminous Coated And 25% Paved, Add	*23.66*	
33 42 11 00-0957	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	121.16	29.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*26.51*	
33 42 11 00-0958		**14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-0947)*		
33 42 11 00-0959	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	37.71	9.52
		For 1/2 Bituminous Coated And 25% Paved, Add	*5.65*	
33 42 11 00-0960	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	42.98	9.97
		For 1/2 Bituminous Coated And 25% Paved, Add	*7.09*	
33 42 11 00-0961	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	48.43	10.88
		For 1/2 Bituminous Coated And 25% Paved, Add	*8.57*	
33 42 11 00-0962	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	55.26	11.79
		For 1/2 Bituminous Coated And 25% Paved, Add	*10.19*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0963	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	61.49	12.70
		For 1/2 Bituminous Coated And 25% Paved, Add	*11.54*	
33 42 11 00-0964	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	80.51	16.32
		For 1/2 Bituminous Coated And 25% Paved, Add	*14.81*	
33 42 11 00-0965	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	104.06	21.27
		For 1/2 Bituminous Coated And 25% Paved, Add	*18.57*	
33 42 11 00-0966	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	118.64	25.14
		For 1/2 Bituminous Coated And 25% Paved, Add	*21.87*	
33 42 11 00-0967	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	133.52	29.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*24.57*	
33 42 11 00-0968	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	159.59	32.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*30.21*	

33 42 11 00-0969 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-0947)*

33 42 11 00-0970	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	58.36	10.88
		For 1/2 Bituminous Coated And 25% Paved, Add	*7.98*	
33 42 11 00-0971	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	66.85	11.79
		For 1/2 Bituminous Coated And 25% Paved, Add	*9.45*	
33 42 11 00-0972	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	74.66	12.70
		For 1/2 Bituminous Coated And 25% Paved, Add	*10.70*	
33 42 11 00-0973	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	96.96	16.32
		For 1/2 Bituminous Coated And 25% Paved, Add	*13.65*	
33 42 11 00-0974	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	123.89	21.27
		For 1/2 Bituminous Coated And 25% Paved, Add	*16.94*	
33 42 11 00-0975	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	141.62	25.14
		For 1/2 Bituminous Coated And 25% Paved, Add	*19.87*	
33 42 11 00-0976	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	159.74	29.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*22.41*	
33 42 11 00-0977	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	189.54	32.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*27.06*	
33 42 11 00-0978	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	207.01	34.80
		For 1/2 Bituminous Coated And 25% Paved, Add	*29.58*	
33 42 11 00-0979	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	252.50	42.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*36.38*	

33 42 11 00-0980 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-0947)*

33 42 11 00-0981	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	141.73	21.27
		For 1/2 Bituminous Coated And 25% Paved, Add	*18.55*	
33 42 11 00-0982	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	162.49	25.14
		For 1/2 Bituminous Coated And 25% Paved, Add	*21.75*	
33 42 11 00-0983	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	183.43	29.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*24.56*	
33 42 11 00-0984	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	216.10	32.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*29.26*	
33 42 11 00-0985	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	236.57	34.80
		For 1/2 Bituminous Coated And 25% Paved, Add	*32.09*	
33 42 11 00-0986	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	284.96	42.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*38.72*	
33 42 11 00-0987	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	339.25	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*41.51*	

33 42 11 00-0988 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-0946)*

33 42 11 00-0989 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-0988)*

33 42 11 00-0990	LF	36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	108.66	21.27
		For 1/2 Bituminous Coated And 25% Paved, Add	*22.24*	
33 42 11 00-0991	LF	42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	123.84	25.14
		For 1/2 Bituminous Coated And 25% Paved, Add	*26.12*	
33 42 11 00-0992	LF	48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	139.21	29.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*29.29*	
33 42 11 00-0993	LF	54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	165.92	32.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*35.78*	
33 42 11 00-0994	LF	60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	180.78	34.80
		For 1/2 Bituminous Coated And 25% Paved, Add	*38.98*	
33 42 11 00-0995	LF	66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	226.33	42.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*50.06*	
33 42 11 00-0996	LF	72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	275.50	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*53.36*	
33 42 11 00-0997	LF	78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	297.27	67.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*56.67*	
33 42 11 00-0998	LF	84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	316.41	72.51
		For 1/2 Bituminous Coated And 25% Paved, Add	*59.99*	
33 42 11 00-0999	LF	90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	335.56	77.34
		For 1/2 Bituminous Coated And 25% Paved, Add	*63.30*	
33 42 11 00-1000	LF	96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	355.39	82.18
		For 1/2 Bituminous Coated And 25% Paved, Add	*66.61*	
33 42 11 00-1001	LF	102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	377.95	87.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*69.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1002		**14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-0988)*		
33 42 11 00-1003	LF	54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	182.03	32.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*31.00*	
33 42 11 00-1004	LF	60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	198.59	34.80
		For 1/2 Bituminous Coated And 25% Paved, Add	*33.84*	
33 42 11 00-1005	LF	66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	245.93	42.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*42.61*	
33 42 11 00-1006	LF	72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	296.85	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*45.54*	
33 42 11 00-1007	LF	78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	320.35	67.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*48.47*	
33 42 11 00-1008	LF	84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	341.30	72.51
		For 1/2 Bituminous Coated And 25% Paved, Add	*51.43*	
33 42 11 00-1009	LF	90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	362.15	77.34
		For 1/2 Bituminous Coated And 25% Paved, Add	*54.35*	
33 42 11 00-1010	LF	96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	383.70	82.18
		For 1/2 Bituminous Coated And 25% Paved, Add	*57.28*	
33 42 11 00-1011	LF	102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	407.99	87.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*60.23*	
33 42 11 00-1012	LF	108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	434.50	96.67
		For 1/2 Bituminous Coated And 25% Paved, Add	*63.18*	
33 42 11 00-1013	LF	114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	460.43	106.35
		For 1/2 Bituminous Coated And 25% Paved, Add	*66.07*	
33 42 11 00-1014		**12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-0988)*		
33 42 11 00-1015	LF	60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	238.17	34.80
		For 1/2 Bituminous Coated And 25% Paved, Add	*45.39*	
33 42 11 00-1016	LF	66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	289.75	42.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*55.54*	
33 42 11 00-1017	LF	72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	344.49	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*59.57*	
33 42 11 00-1018	LF	78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	371.86	67.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*63.62*	
33 42 11 00-1019	LF	84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	396.64	72.51
		For 1/2 Bituminous Coated And 25% Paved, Add	*67.69*	
33 42 11 00-1020	LF	90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	421.36	77.34
		For 1/2 Bituminous Coated And 25% Paved, Add	*71.73*	
33 42 11 00-1021	LF	96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	446.76	82.18
		For 1/2 Bituminous Coated And 25% Paved, Add	*75.77*	
33 42 11 00-1022	LF	102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	474.89	87.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*79.84*	
33 42 11 00-1023	LF	108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	505.21	96.67
		For 1/2 Bituminous Coated And 25% Paved, Add	*83.89*	
33 42 11 00-1024	LF	114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	535.03	106.35
		For 1/2 Bituminous Coated And 25% Paved, Add	*87.91*	
33 42 11 00-1025	LF	120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	563.79	116.02
		For 1/2 Bituminous Coated And 25% Paved, Add	*91.97*	
33 42 11 00-1026		**10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-0988)*		
33 42 11 00-1027	LF	72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	388.92	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*73.12*	
33 42 11 00-1028	LF	78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	419.87	67.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*78.24*	
33 42 11 00-1029	LF	84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	448.30	72.51
		For 1/2 Bituminous Coated And 25% Paved, Add	*83.40*	
33 42 11 00-1030	LF	90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	476.63	77.34
		For 1/2 Bituminous Coated And 25% Paved, Add	*88.53*	
33 42 11 00-1031	LF	96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	505.73	82.18
		For 1/2 Bituminous Coated And 25% Paved, Add	*93.68*	
33 42 11 00-1032	LF	102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	537.52	87.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*98.84*	
33 42 11 00-1033	LF	108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	571.45	96.67
		For 1/2 Bituminous Coated And 25% Paved, Add	*103.97*	
33 42 11 00-1034	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	604.90	106.35
		For 1/2 Bituminous Coated And 25% Paved, Add	*109.08*	
33 42 11 00-1035	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	637.32	116.02
		For 1/2 Bituminous Coated And 25% Paved, Add	*114.24*	
33 42 11 00-1036	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	671.52	125.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*119.37*	
33 42 11 00-1037	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	708.19	135.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*124.52*	
33 42 11 00-1038	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	747.81	145.02
		For 1/2 Bituminous Coated And 25% Paved, Add	*129.68*	
33 42 11 00-1039		**125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-0946)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1040		**16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-1039)*		
33 42 11 00-1041	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	139.73	29.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*36.29*	
33 42 11 00-1042	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	166.85	32.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*44.46*	
33 42 11 00-1043	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	181.60	34.80
		For 1/2 Bituminous Coated And 25% Paved, Add	*48.35*	
33 42 11 00-1044	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	224.51	42.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*60.87*	
33 42 11 00-1045	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	273.47	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*64.84*	
33 42 11 00-1046	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	295.00	67.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*68.80*	
33 42 11 00-1047	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	313.80	72.51
		For 1/2 Bituminous Coated And 25% Paved, Add	*72.74*	
33 42 11 00-1048	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	332.56	77.34
		For 1/2 Bituminous Coated And 25% Paved, Add	*76.66*	
33 42 11 00-1049	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	352.21	82.18
		For 1/2 Bituminous Coated And 25% Paved, Add	*80.66*	
33 42 11 00-1050	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	374.71	87.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*84.74*	
33 42 11 00-1051		**14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-1039)*		
33 42 11 00-1052	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	186.99	32.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*41.92*	
33 42 11 00-1053	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	204.04	34.80
		For 1/2 Bituminous Coated And 25% Paved, Add	*45.77*	
33 42 11 00-1054	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	248.95	42.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*56.32*	
33 42 11 00-1055	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	299.91	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*60.14*	
33 42 11 00-1056	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	323.80	67.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*64.07*	
33 42 11 00-1057	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	344.85	72.51
		For 1/2 Bituminous Coated And 25% Paved, Add	*67.94*	
33 42 11 00-1058	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	364.75	77.34
		For 1/2 Bituminous Coated And 25% Paved, Add	*71.42*	
33 42 11 00-1059	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	387.61	82.18
		For 1/2 Bituminous Coated And 25% Paved, Add	*75.66*	
33 42 11 00-1060	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	412.02	87.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*79.54*	
33 42 11 00-1061	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	438.56	96.67
		For 1/2 Bituminous Coated And 25% Paved, Add	*83.37*	
33 42 11 00-1062	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	464.97	106.35
		For 1/2 Bituminous Coated And 25% Paved, Add	*87.29*	
33 42 11 00-1063		**12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-1039)*		
33 42 11 00-1064	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	245.99	34.80
		For 1/2 Bituminous Coated And 25% Paved, Add	*50.50*	
33 42 11 00-1065	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	295.20	42.54
		For 1/2 Bituminous Coated And 25% Paved, Add	*60.61*	
33 42 11 00-1066	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	350.55	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*65.07*	
33 42 11 00-1067	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	378.31	67.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*69.48*	
33 42 11 00-1068	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	403.33	72.51
		For 1/2 Bituminous Coated And 25% Paved, Add	*73.88*	
33 42 11 00-1069	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	428.57	77.34
		For 1/2 Bituminous Coated And 25% Paved, Add	*78.33*	
33 42 11 00-1070	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	454.36	82.18
		For 1/2 Bituminous Coated And 25% Paved, Add	*82.74*	
33 42 11 00-1071	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	482.80	87.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*87.15*	
33 42 11 00-1072	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	513.60	96.67
		For 1/2 Bituminous Coated And 25% Paved, Add	*91.59*	
33 42 11 00-1073	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	543.93	106.35
		For 1/2 Bituminous Coated And 25% Paved, Add	*96.01*	
33 42 11 00-1074	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	573.03	116.02
		For 1/2 Bituminous Coated And 25% Paved, Add	*100.43*	
33 42 11 00-1075		**10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping** *(33 42 11 00-1039)*		
33 42 11 00-1076	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	399.04	61.87
		For 1/2 Bituminous Coated And 25% Paved, Add	*78.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1077	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	431.31	67.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*84.64*	
33 42 11 00-1078	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	460.54	72.51
		For 1/2 Bituminous Coated And 25% Paved, Add	*90.24*	
33 42 11 00-1079	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	489.59	77.34
		For 1/2 Bituminous Coated And 25% Paved, Add	*95.78*	
33 42 11 00-1080	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	519.51	82.18
		For 1/2 Bituminous Coated And 25% Paved, Add	*101.37*	
33 42 11 00-1081	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	551.97	87.01
		For 1/2 Bituminous Coated And 25% Paved, Add	*106.93*	
33 42 11 00-1082	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	586.78	96.67
		For 1/2 Bituminous Coated And 25% Paved, Add	*112.52*	
33 42 11 00-1083	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	621.16	106.35
		For 1/2 Bituminous Coated And 25% Paved, Add	*118.10*	
33 42 11 00-1084	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	654.22	116.02
		For 1/2 Bituminous Coated And 25% Paved, Add	*123.65*	
33 42 11 00-1085	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	695.44	125.68
		For 1/2 Bituminous Coated And 25% Paved, Add	*130.98*	
33 42 11 00-1086	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	734.47	135.36
		For 1/2 Bituminous Coated And 25% Paved, Add	*137.02*	
33 42 11 00-1087	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	777.25	145.02
		For 1/2 Bituminous Coated And 25% Paved, Add	*143.29*	

33 42 11 00-1088 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-0946)*

33 42 11 00-1089 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1088)*

33 42 11 00-1090	LF	18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	49.12	10.88
33 42 11 00-1091	LF	21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	56.04	11.79
33 42 11 00-1092	LF	24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	62.55	12.70
33 42 11 00-1093	LF	30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	81.79	16.32
33 42 11 00-1094	LF	36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	105.27	21.27
33 42 11 00-1095	LF	42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	120.06	25.14
33 42 11 00-1096	LF	48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	135.42	29.01
33 42 11 00-1097	LF	54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	160.43	32.87
33 42 11 00-1098	LF	60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	175.27	34.80

33 42 11 00-1099 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1088)*

33 42 11 00-1100	LF	18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	53.79	10.88
33 42 11 00-1101	LF	21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	61.49	11.79
33 42 11 00-1102	LF	24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	68.72	12.70
33 42 11 00-1103	LF	30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	89.51	16.32
33 42 11 00-1104	LF	36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	114.57	21.27
33 42 11 00-1105	LF	42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	130.93	25.14
33 42 11 00-1106	LF	48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	147.84	29.01
33 42 11 00-1107	LF	54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	174.40	32.87
33 42 11 00-1108	LF	60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	190.84	34.80
33 42 11 00-1109	LF	66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	231.90	42.54
33 42 11 00-1110	LF	72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	282.22	61.87
33 42 11 00-1111	LF	78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	305.26	67.68

33 42 11 00-1112 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1088)*

33 42 11 00-1113	LF	30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	105.17	16.32
33 42 11 00-1114	LF	36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	133.31	21.27
33 42 11 00-1115	LF	42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	152.89	25.14
33 42 11 00-1116	LF	48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	172.89	29.01
33 42 11 00-1117	LF	54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	202.56	32.87
33 42 11 00-1118	LF	60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	222.18	34.80
33 42 11 00-1119	LF	66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	266.31	42.54
33 42 11 00-1120	LF	72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	319.72	61.87
33 42 11 00-1121	LF	78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	345.88	67.68
33 42 11 00-1122	LF	84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	369.29	72.51
33 42 11 00-1123	LF	90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	392.74	77.34
33 42 11 00-1124	LF	96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	416.81	82.18
33 42 11 00-1125	LF	102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	442.06	87.01

33 42 11 00-1126 Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-0437)*

33 42 11 00-1127 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1126)*

33 42 11 00-1128 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1127)*

33 42 11 00-1129	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	40.11	9.97
		For 1/2 Bituminous Coated And 40% Paved, Add	*9.68*	
33 42 11 00-1130	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	44.67	10.88
		For 1/2 Bituminous Coated And 40% Paved, Add	*11.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1131	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	51.11	11.79
		For 1/2 Bituminous Coated And 40% Paved, Add	*13.90*	
33 42 11 00-1132	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	57.37	12.70
		For 1/2 Bituminous Coated And 40% Paved, Add	*16.02*	
33 42 11 00-1133	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	74.76	16.32
		For 1/2 Bituminous Coated And 40% Paved, Add	*20.35*	
33 42 11 00-1134	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	98.36	21.27
		For 1/2 Bituminous Coated And 40% Paved, Add	*26.25*	

33 42 11 00-1135 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1127)*

33 42 11 00-1136	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	44.07	9.97
		For 1/2 Bituminous Coated And 40% Paved, Add	*10.03*	
33 42 11 00-1137	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	49.49	10.88
		For 1/2 Bituminous Coated And 40% Paved, Add	*12.01*	
33 42 11 00-1138	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	56.53	11.79
		For 1/2 Bituminous Coated And 40% Paved, Add	*14.29*	
33 42 11 00-1139	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	63.64	12.70
		For 1/2 Bituminous Coated And 40% Paved, Add	*16.48*	
33 42 11 00-1140	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	82.57	16.32
		For 1/2 Bituminous Coated And 40% Paved, Add	*20.86*	
33 42 11 00-1141	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	107.66	21.27
		For 1/2 Bituminous Coated And 40% Paved, Add	*26.58*	
33 42 11 00-1142	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	123.72	25.14
		For 1/2 Bituminous Coated And 40% Paved, Add	*31.66*	

33 42 11 00-1143 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1127)*

33 42 11 00-1144	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	59.30	10.88
		For 1/2 Bituminous Coated And 40% Paved, Add	*11.00*	
33 42 11 00-1145	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	68.16	11.79
		For 1/2 Bituminous Coated And 40% Paved, Add	*13.08*	
33 42 11 00-1146	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	76.81	12.70
		For 1/2 Bituminous Coated And 40% Paved, Add	*15.01*	
33 42 11 00-1147	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	99.02	16.32
		For 1/2 Bituminous Coated And 40% Paved, Add	*18.94*	
33 42 11 00-1148	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	127.53	21.27
		For 1/2 Bituminous Coated And 40% Paved, Add	*23.82*	
33 42 11 00-1149	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	146.89	25.14
		For 1/2 Bituminous Coated And 40% Paved, Add	*28.23*	
33 42 11 00-1150	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	171.83	29.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*33.61*	
33 42 11 00-1151	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	191.90	32.87
		For 1/2 Bituminous Coated And 40% Paved, Add	*37.05*	

33 42 11 00-1152 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1127)*

33 42 11 00-1153	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	145.37	21.27
		For 1/2 Bituminous Coated And 40% Paved, Add	*25.06*	
33 42 11 00-1154	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	167.70	25.14
		For 1/2 Bituminous Coated And 40% Paved, Add	*29.62*	
33 42 11 00-1155	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	195.42	29.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*34.97*	
33 42 11 00-1156	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	218.58	32.87
		For 1/2 Bituminous Coated And 40% Paved, Add	*38.72*	
33 42 11 00-1157	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	239.26	34.80
		For 1/2 Bituminous Coated And 40% Paved, Add	*42.46*	

33 42 11 00-1158 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1126)*

33 42 11 00-1159 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch *(33 42 11 00-1158)*

33 42 11 00-1160	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	185.21	32.87
		For 1/2 Bituminous Coated And 40% Paved, Add	*55.65*	
33 42 11 00-1161	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	202.38	34.80
		For 1/2 Bituminous Coated And 40% Paved, Add	*60.90*	
33 42 11 00-1162	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	250.29	42.54
		For 1/2 Bituminous Coated And 40% Paved, Add	*76.49*	
33 42 11 00-1163	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	302.06	61.87
		For 1/2 Bituminous Coated And 40% Paved, Add	*81.99*	
33 42 11 00-1164	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	327.04	67.68
		For 1/2 Bituminous Coated And 40% Paved, Add	*87.79*	
33 42 11 00-1165	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	349.39	72.51
		For 1/2 Bituminous Coated And 40% Paved, Add	*93.60*	
33 42 11 00-1166	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	371.69	77.34
		For 1/2 Bituminous Coated And 40% Paved, Add	*99.39*	
33 42 11 00-1167	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	394.73	82.18
		For 1/2 Bituminous Coated And 40% Paved, Add	*105.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1168		**12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch** *(33 42 11 00-1158)*		
33 42 11 00-1169	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	241.99	34.80
		For 1/2 Bituminous Coated And 40% Paved, Add	*69.20*	
33 42 11 00-1170	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	294.20	42.54
		For 1/2 Bituminous Coated And 40% Paved, Add	*84.57*	
33 42 11 00-1171	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	349.88	61.87
		For 1/2 Bituminous Coated And 40% Paved, Add	*90.96*	
33 42 11 00-1172	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	378.68	67.68
		For 1/2 Bituminous Coated And 40% Paved, Add	*97.57*	
33 42 11 00-1173	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	404.93	72.51
		For 1/2 Bituminous Coated And 40% Paved, Add	*104.22*	
33 42 11 00-1174	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	431.14	77.34
		For 1/2 Bituminous Coated And 40% Paved, Add	*110.86*	
33 42 11 00-1175	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	458.00	82.18
		For 1/2 Bituminous Coated And 40% Paved, Add	*117.46*	
33 42 11 00-1176	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	487.64	87.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*124.13*	
33 42 11 00-1177	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	519.45	96.67
		For 1/2 Bituminous Coated And 40% Paved, Add	*130.76*	
33 42 11 00-1178	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	552.53	106.35
		For 1/2 Bituminous Coated And 40% Paved, Add	*138.06*	
33 42 11 00-1179		**10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch** *(33 42 11 00-1158)*		
33 42 11 00-1180	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	394.28	61.87
		For 1/2 Bituminous Coated And 40% Paved, Add	*98.46*	
33 42 11 00-1181	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	426.77	67.68
		For 1/2 Bituminous Coated And 40% Paved, Add	*105.78*	
33 42 11 00-1182	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	456.66	72.51
		For 1/2 Bituminous Coated And 40% Paved, Add	*113.13*	
33 42 11 00-1183	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	486.44	77.34
		For 1/2 Bituminous Coated And 40% Paved, Add	*120.43*	
33 42 11 00-1184	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	519.42	82.18
		For 1/2 Bituminous Coated And 40% Paved, Add	*128.63*	
33 42 11 00-1185	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	550.24	87.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*135.09*	
33 42 11 00-1186	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	585.72	96.67
		For 1/2 Bituminous Coated And 40% Paved, Add	*142.43*	
33 42 11 00-1187	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	622.10	106.35
		For 1/2 Bituminous Coated And 40% Paved, Add	*150.23*	
33 42 11 00-1188	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	661.61	116.02
		For 1/2 Bituminous Coated And 40% Paved, Add	*159.62*	
33 42 11 00-1189		**125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch** *(33 42 11 00-1126)*		
33 42 11 00-1190		**12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch** *(33 42 11 00-1189)*		
33 42 11 00-1191	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	354.36	61.87
		For 1/2 Bituminous Coated And 40% Paved, Add	*89.52*	
33 42 11 00-1192	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	382.77	67.68
		For 1/2 Bituminous Coated And 40% Paved, Add	*95.75*	
33 42 11 00-1193	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	408.36	72.51
		For 1/2 Bituminous Coated And 40% Paved, Add	*101.91*	
33 42 11 00-1194	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	433.93	77.34
		For 1/2 Bituminous Coated And 40% Paved, Add	*108.07*	
33 42 11 00-1195	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	460.30	82.18
		For 1/2 Bituminous Coated And 40% Paved, Add	*114.25*	
33 42 11 00-1196	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	489.61	87.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*120.56*	
33 42 11 00-1197	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	521.08	96.67
		For 1/2 Bituminous Coated And 40% Paved, Add	*126.83*	
33 42 11 00-1198	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	556.26	106.35
		For 1/2 Bituminous Coated And 40% Paved, Add	*134.68*	
33 42 11 00-1199		**10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch** *(33 42 11 00-1189)*		
33 42 11 00-1200	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	403.55	61.87
		For 1/2 Bituminous Coated And 40% Paved, Add	*99.30*	
33 42 11 00-1201	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	435.89	67.68
		For 1/2 Bituminous Coated And 40% Paved, Add	*106.39*	
33 42 11 00-1202	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	465.45	72.51
		For 1/2 Bituminous Coated And 40% Paved, Add	*113.43*	
33 42 11 00-1203	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	495.13	77.34
		For 1/2 Bituminous Coated And 40% Paved, Add	*120.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1204	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	524.87	82.18
		For 1/2 Bituminous Coated And 40% Paved, Add	*127.37*	
33 42 11 00-1205	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	558.69	87.01
		For 1/2 Bituminous Coated And 40% Paved, Add	*134.73*	
33 42 11 00-1206	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	594.26	96.67
		For 1/2 Bituminous Coated And 40% Paved, Add	*141.92*	
33 42 11 00-1207	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	633.46	106.35
		For 1/2 Bituminous Coated And 40% Paved, Add	*150.53*	
33 42 11 00-1208	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	670.09	116.02
		For 1/2 Bituminous Coated And 40% Paved, Add	*158.66*	

33 42 11 00-1209 Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-0437)*

33 42 11 00-1210 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1209)*

33 42 11 00-1211 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1210)*

33 42 11 00-1212	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	20.46	5.44
		For Bituminous Coated Pipe, Add	*1.84*	
33 42 11 00-1213	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	26.21	6.80
		For Bituminous Coated Pipe, Add	*2.50*	
33 42 11 00-1214	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	33.88	8.16
		For Bituminous Coated Pipe, Add	*3.29*	

33 42 11 00-1215 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1210)*

33 42 11 00-1216	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	22.57	5.44
		For Bituminous Coated Pipe, Add	*1.82*	
33 42 11 00-1217	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	29.19	6.80
		For Bituminous Coated Pipe, Add	*2.50*	
33 42 11 00-1218	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	37.86	8.16
		For Bituminous Coated Pipe, Add	*3.29*	

33 42 11 00-1219 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1209)*

33 42 11 00-1220 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1219)*

33 42 11 00-1221	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	39.35	9.52
		For Bituminous Coated Pipe, Add	*3.62*	
33 42 11 00-1222	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	45.04	9.97
		For Bituminous Coated Pipe, Add	*4.54*	
33 42 11 00-1223	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	51.08	10.88
		For Bituminous Coated Pipe, Add	*5.52*	
33 42 11 00-1224	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	58.54	11.79
		For Bituminous Coated Pipe, Add	*6.59*	
33 42 11 00-1225	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	65.27	12.70
		For Bituminous Coated Pipe, Add	*7.47*	

33 42 11 00-1226 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1219)*

33 42 11 00-1227	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	43.88	9.52
		For Bituminous Coated Pipe, Add	*3.54*	
33 42 11 00-1228	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	50.80	9.97
		For Bituminous Coated Pipe, Add	*4.46*	
33 42 11 00-1229	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	57.99	10.88
		For Bituminous Coated Pipe, Add	*5.40*	
33 42 11 00-1230	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	66.55	11.79
		For Bituminous Coated Pipe, Add	*6.42*	
33 42 11 00-1231	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	74.46	12.70
		For Bituminous Coated Pipe, Add	*7.29*	
33 42 11 00-1232	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	97.04	16.32
		For Bituminous Coated Pipe, Add	*9.34*	
33 42 11 00-1233	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	124.15	21.27
		For Bituminous Coated Pipe, Add	*11.62*	

33 42 11 00-1234 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1219)*

33 42 11 00-1235	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	92.05	12.70
		For Bituminous Coated Pipe, Add	*6.92*	
33 42 11 00-1236	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	118.93	16.32
		For Bituminous Coated Pipe, Add	*8.80*	
33 42 11 00-1237	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	150.44	21.27
		For Bituminous Coated Pipe, Add	*10.85*	
33 42 11 00-1238	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	173.09	25.14
		For Bituminous Coated Pipe, Add	*12.76*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1239	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	195.74	29.01
		For Bituminous Coated Pipe, Add	*14.44*	
33 42 11 00-1240	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	230.04	32.87
		For Bituminous Coated Pipe, Add	*17.13*	

33 42 11 00-1241 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1219)*

33 42 11 00-1242	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	178.46	21.27
		For Bituminous Coated Pipe, Add	*10.67*	
33 42 11 00-1243	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	205.73	25.14
		For Bituminous Coated Pipe, Add	*12.52*	
33 42 11 00-1244	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	233.15	29.01
		For Bituminous Coated Pipe, Add	*14.21*	
33 42 11 00-1245	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	272.12	32.87
		For Bituminous Coated Pipe, Add	*16.67*	
33 42 11 00-1246	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	299.09	34.80
		For Bituminous Coated Pipe, Add	*18.37*	

33 42 11 00-1247 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1209)*

33 42 11 00-1248 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1247)*

33 42 11 00-1249	LF	30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	95.61	16.32
33 42 11 00-1250	LF	36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	122.37	21.27
33 42 11 00-1251	LF	42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	139.76	25.14
33 42 11 00-1252	LF	48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	158.24	29.01
33 42 11 00-1253	LF	54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	186.59	32.87

33 42 11 00-1254 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1247)*

33 42 11 00-1255	LF	30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	107.14	16.32
33 42 11 00-1256	LF	36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	138.82	21.27
33 42 11 00-1257	LF	42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	158.85	25.14
33 42 11 00-1258	LF	48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	179.07	29.01
33 42 11 00-1259	LF	54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	211.00	32.87
33 42 11 00-1260	LF	60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	230.67	34.80
33 42 11 00-1261	LF	66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	280.42	42.54
33 42 11 00-1262	LF	72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	334.27	61.87
33 42 11 00-1263	LF	78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	360.74	67.68

33 42 11 00-1264 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1247)*

33 42 11 00-1265	LF	30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	134.06	16.32
33 42 11 00-1266	LF	36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	169.09	21.27
33 42 11 00-1267	LF	42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	195.02	25.14
33 42 11 00-1268	LF	48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	220.56	29.01
33 42 11 00-1269	LF	54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	257.57	32.87
33 42 11 00-1270	LF	60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	282.25	34.80
33 42 11 00-1271	LF	66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	336.97	42.54
33 42 11 00-1272	LF	72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	395.95	61.87
33 42 11 00-1273	LF	78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	427.46	67.68
33 42 11 00-1274	LF	84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	456.39	72.51
33 42 11 00-1275	LF	90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	485.25	77.34
33 42 11 00-1276	LF	96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	514.82	82.18

33 42 11 00-1277 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping *(33 42 11 00-1247)*

33 42 11 00-1278	LF	60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	336.49	34.80
33 42 11 00-1279	LF	66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	394.35	42.54
33 42 11 00-1280	LF	72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	458.48	61.87
33 42 11 00-1281	LF	78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	495.14	67.68
33 42 11 00-1282	LF	84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	529.14	72.51
33 42 11 00-1283	LF	90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	563.14	77.34
33 42 11 00-1284	LF	96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	597.82	82.18
33 42 11 00-1285	LF	102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	635.26	87.01
33 42 11 00-1286	LF	108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	674.88	96.67

33 42 11 00-1287 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1209)*

Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.

33 42 11 00-1288 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1287)*

33 42 11 00-1289	LF	18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	66.60	10.88

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1290	LF	21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	71.64	11.79
33 42 11 00-1291	LF	24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	85.90	12.70
33 42 11 00-1292	LF	27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	99.17	14.51
33 42 11 00-1293	LF	30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	111.41	16.32
33 42 11 00-1294	LF	33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	123.88	18.14

33 42 11 00-1295 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1287)*

33 42 11 00-1296	LF	18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	76.35	10.88
33 42 11 00-1297	LF	21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	87.99	11.79
33 42 11 00-1298	LF	24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	99.01	12.70
33 42 11 00-1299	LF	27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	113.89	14.51
33 42 11 00-1300	LF	30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	127.73	16.32
33 42 11 00-1301	LF	33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	141.87	18.14
33 42 11 00-1302	LF	36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	161.21	21.27
33 42 11 00-1303	LF	42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	185.63	25.14
33 42 11 00-1304	LF	48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	210.02	29.01

33 42 11 00-1305 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1287)*

33 42 11 00-1306	LF	30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	159.65	16.32
33 42 11 00-1307	LF	33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	176.91	18.14
33 42 11 00-1308	LF	36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	199.49	21.27
33 42 11 00-1309	LF	42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	230.33	25.14
33 42 11 00-1310	LF	48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	261.11	29.01
33 42 11 00-1311	LF	54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	359.05	32.87
33 42 11 00-1312	LF	60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	395.06	34.80

33 42 11 00-1313 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping *(33 42 11 00-1287)*

33 42 11 00-1314	LF	48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	365.20	29.01
33 42 11 00-1315	LF	54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	423.23	32.87
33 42 11 00-1316	LF	60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	466.44	34.80
33 42 11 00-1317	LF	66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	542.33	42.54
33 42 11 00-1318	LF	72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	618.76	61.87
33 42 11 00-1319	LF	78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	668.30	67.68
33 42 11 00-1320	LF	84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	714.79	72.51

33 42 11 00-1321 Spiral Lockseam Aluminum Pipe-Arch *(33 42 11 00-0437)*

33 42 11 00-1322 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch *(33 42 11 00-1321)*

33 42 11 00-1323 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch *(33 42 11 00-1322)*

33 42 11 00-1324	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	47.10	9.97
		For Bituminous Coated Pipe, Add	*4.55*	
33 42 11 00-1325	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	53.03	10.88
		For Bituminous Coated Pipe, Add	*5.44*	
33 42 11 00-1326	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	60.76	11.79
		For Bituminous Coated Pipe, Add	*6.47*	

33 42 11 00-1327 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch *(33 42 11 00-1322)*

33 42 11 00-1328	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	52.88	9.97
		For Bituminous Coated Pipe, Add	*4.54*	
33 42 11 00-1329	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	58.57	10.88
		For Bituminous Coated Pipe, Add	*5.23*	
33 42 11 00-1330	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	68.77	11.79
		For Bituminous Coated Pipe, Add	*6.42*	
33 42 11 00-1331	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	77.48	12.70
		For Bituminous Coated Pipe, Add	*7.37*	
33 42 11 00-1332	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	100.04	16.32
		For Bituminous Coated Pipe, Add	*9.32*	

33 42 11 00-1333 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch *(33 42 11 00-1322)*

33 42 11 00-1334	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	95.07	12.70
		For Bituminous Coated Pipe, Add	*7.02*	
33 42 11 00-1335	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	121.98	16.32
		For Bituminous Coated Pipe, Add	*8.85*	
33 42 11 00-1336	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	155.61	21.27
		For Bituminous Coated Pipe, Add	*11.05*	
33 42 11 00-1337	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	179.89	25.14
		For Bituminous Coated Pipe, Add	*13.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1338		**10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1322)*		
33 42 11 00-1339	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	183.59	21.27
		For Bituminous Coated Pipe, Add	*10.66*	
33 42 11 00-1340	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	212.59	25.14
		For Bituminous Coated Pipe, Add	*12.58*	
33 42 11 00-1341	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	246.92	29.01
		For Bituminous Coated Pipe, Add	*14.74*	
33 42 11 00-1342	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	276.65	32.87
		For Bituminous Coated Pipe, Add	*16.40*	
33 42 11 00-1343		**3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1321)*		
33 42 11 00-1344		**14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1343)*		
33 42 11 00-1345	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	215.52	32.87
33 42 11 00-1346	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	235.94	34.80
33 42 11 00-1347	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	286.92	42.54
33 42 11 00-1348		**12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1343)*		
33 42 11 00-1349	LF	60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	262.09	32.87
33 42 11 00-1350	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	287.51	34.80
33 42 11 00-1351	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	343.24	42.54
33 42 11 00-1352	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	402.70	61.87
33 42 11 00-1353	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	434.69	67.68
33 42 11 00-1354	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	464.10	72.51
33 42 11 00-1355		**10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch** *(33 42 11 00-1343)*		
33 42 11 00-1356	LF	66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	341.67	34.80
33 42 11 00-1357	LF	73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	400.39	42.54
33 42 11 00-1358	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	464.98	61.87
33 42 11 00-1359	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	502.12	67.68
33 42 11 00-1360	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	536.60	72.51
33 42 11 00-1361	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch	571.06	77.34
33 42 11 00-1362		**Corrugated Steel Pipe Fittings** *(33 42 11 00-0437)* Note: Equivalent pipe-arch sizes are approximate.		
33 42 11 00-1363		**Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings** *(33 42 11 00-1362)* Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1364	EA	Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	77.97	
33 42 11 00-1365	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	97.78	
33 42 11 00-1366	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	117.58	
33 42 11 00-1367	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	138.63	
33 42 11 00-1368	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	168.32	
33 42 11 00-1369	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	198.02	
33 42 11 00-1370	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	227.73	
33 42 11 00-1371	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	257.41	
33 42 11 00-1372	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	335.40	
33 42 11 00-1373	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	399.75	
33 42 11 00-1374	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	464.11	
33 42 11 00-1375	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	600.25	
33 42 11 00-1376	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	676.99	
33 42 11 00-1377	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	756.20	
33 42 11 00-1378	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	837.88	
33 42 11 00-1379	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,021.05	
33 42 11 00-1380	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,113.85	
33 42 11 00-1381	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,209.15	
33 42 11 00-1382	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,483.91	
33 42 11 00-1383	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,592.84	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1384	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,702.98	
33 42 11 00-1385	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	1,813.13	
33 42 11 00-1386	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	1,922.03	
33 42 11 00-1387	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	2,032.19	
33 42 11 00-1388	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,148.33	
33 42 11 00-1389	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,271.09	
33 42 11 00-1390	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,400.86	

33 42 11 00-1391 Fabricate Corrugated Steel Pipe Tees Or Laterals *(33 42 11 00-1362)*

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1392	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	101.49	
33 42 11 00-1393	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	129.95	
33 42 11 00-1394	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	158.40	
33 42 11 00-1395	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	186.88	
33 42 11 00-1396	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	227.73	
33 42 11 00-1397	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	269.79	
33 42 11 00-1398	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	311.90	
33 42 11 00-1399	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	353.94	
33 42 11 00-1400	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	464.11	
33 42 11 00-1401	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	553.22	
33 42 11 00-1402	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	643.56	
33 42 11 00-1403	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	835.39	
33 42 11 00-1404	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	940.59	
33 42 11 00-1405	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,049.50	
33 42 11 00-1406	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,160.89	
33 42 11 00-1407	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	1,415.84	
33 42 11 00-1408	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,542.09	
33 42 11 00-1409	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,670.79	
33 42 11 00-1410	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe)	2,055.67	
33 42 11 00-1411	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe)	2,202.97	
33 42 11 00-1412	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe)	2,350.24	
33 42 11 00-1413	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe)	2,498.75	
33 42 11 00-1414	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe)	2,647.27	
33 42 11 00-1415	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe)	2,794.53	
33 42 11 00-1416	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe)	2,950.00	
33 42 11 00-1417	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	3,114.11	
33 42 11 00-1418	EA	Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe)	3,287.33	

33 42 11 00-1419 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting *(33 42 11 00-1362)*

Note: Applied to pipe tasks.

33 42 11 00-1420	EA	Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting	39.21	
33 42 11 00-1421	EA	Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting	49.32	
33 42 11 00-1422	EA	Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting	62.04	
33 42 11 00-1423	EA	Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting	75.97	
33 42 11 00-1424	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	96.13	
33 42 11 00-1425	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	117.71	
33 42 11 00-1426	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	137.89	
33 42 11 00-1427	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	160.20	
33 42 11 00-1428	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	196.76	
33 42 11 00-1429	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	234.59	
33 42 11 00-1430	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	279.92	
33 42 11 00-1431	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	344.33	
33 42 11 00-1432	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	389.74	
33 42 11 00-1433	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	438.91	
33 42 11 00-1434	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	532.26	
33 42 11 00-1435	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	590.26	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1436	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	720.18	
33 42 11 00-1437	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	784.53	
33 42 11 00-1438	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	852.67	
33 42 11 00-1439	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	919.46	
33 42 11 00-1440	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	987.58	
33 42 11 00-1441	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,056.93	
33 42 11 00-1442	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,125.07	
33 42 11 00-1443	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,193.16	
33 42 11 00-1444	EA	Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,265.38	
33 42 11 00-1445	EA	Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,341.95	
33 42 11 00-1446	EA	Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,423.17	

33 42 11 00-1447 Coupling Bands, Corrugated Metal Pipe Fitting *(33 42 11 00-1362)*

33 42 11 00-1448	EA	6" Coupling Band, Corrugated Metal Pipe Fitting	10.54	
		For Bituminous Coated, Add	*3.06*	
33 42 11 00-1449	EA	8" Coupling Band, Corrugated Metal Pipe Fitting	13.99	
		For Bituminous Coated, Add	*4.06*	
33 42 11 00-1450	EA	10" Coupling Band, Corrugated Metal Pipe Fitting	17.63	
		For Bituminous Coated, Add	*5.11*	
33 42 11 00-1451	EA	12" Coupling Band, Corrugated Metal Pipe Fitting	29.26	
		For Bituminous Coated, Add	*8.49*	
33 42 11 00-1452	EA	15" Coupling Band, Corrugated Metal Pipe Fitting	36.89	
		For Bituminous Coated, Add	*10.70*	
33 42 11 00-1453	EA	18" Coupling Band, Corrugated Metal Pipe Fitting	54.12	
		For Bituminous Coated, Add	*15.69*	
33 42 11 00-1454	EA	21" Coupling Band, Corrugated Metal Pipe Fitting	64.24	
		For Bituminous Coated, Add	*18.63*	
33 42 11 00-1455	EA	24" Coupling Band, Corrugated Metal Pipe Fitting	72.84	
		For Bituminous Coated, Add	*21.12*	
33 42 11 00-1456	EA	30" Coupling Band, Corrugated Metal Pipe Fitting	126.05	
		For Bituminous Coated, Add	*36.55*	
33 42 11 00-1457	EA	36" Coupling Band, Corrugated Metal Pipe Fitting	201.67	
		For Bituminous Coated, Add	*48.40*	
33 42 11 00-1458	EA	42" Coupling Band, Corrugated Metal Pipe Fitting	236.96	
		For Bituminous Coated, Add	*56.87*	
33 42 11 00-1459	EA	48" Coupling Band, Corrugated Metal Pipe Fitting	265.52	
		For Bituminous Coated, Add	*63.72*	
33 42 11 00-1460	EA	54" Coupling Band, Corrugated Metal Pipe Fitting	376.55	
		For Bituminous Coated, Add	*90.37*	
33 42 11 00-1461	EA	60" Coupling Band, Corrugated Metal Pipe Fitting	538.58	
		For Bituminous Coated, Add	*96.94*	
33 42 11 00-1462	EA	66" Coupling Band, Corrugated Metal Pipe Fitting	661.90	
		For Bituminous Coated, Add	*119.14*	
33 42 11 00-1463	EA	72" Coupling Band, Corrugated Metal Pipe Fitting	850.25	
		For Bituminous Coated, Add	*119.04*	
33 42 11 00-1464	EA	78" Coupling Band, Corrugated Metal Pipe Fitting	909.40	
		For Bituminous Coated, Add	*127.32*	
33 42 11 00-1465	EA	84" Coupling Band, Corrugated Metal Pipe Fitting	968.88	
		For Bituminous Coated, Add	*135.64*	
33 42 11 00-1466	EA	90" Coupling Band, Corrugated Metal Pipe Fitting	1,028.06	
		For Bituminous Coated, Add	*143.93*	
33 42 11 00-1467	EA	96" Coupling Band, Corrugated Metal Pipe Fitting	1,087.39	
		For Bituminous Coated, Add	*152.23*	
33 42 11 00-1468	EA	102" Coupling Band, Corrugated Metal Pipe Fitting	1,146.87	
		For Bituminous Coated, Add	*160.56*	
33 42 11 00-1469	EA	108" Coupling Band, Corrugated Metal Pipe Fitting	1,206.08	
		For Bituminous Coated, Add	*168.85*	
33 42 11 00-1470	EA	114" Coupling Band, Corrugated Metal Pipe Fitting	1,428.47	
		For Bituminous Coated, Add	*171.42*	
33 42 11 00-1471	EA	120" Coupling Band, Corrugated Metal Pipe Fitting	1,324.41	
		For Bituminous Coated, Add	*158.93*	
33 42 11 00-1472	EA	126" Coupling Band, Corrugated Metal Pipe Fitting	1,383.43	
		For Bituminous Coated, Add	*166.01*	
33 42 11 00-1473	EA	132" Coupling Band, Corrugated Metal Pipe Fitting	1,442.89	
		For Bituminous Coated, Add	*173.15*	
33 42 11 00-1474	EA	138" Coupling Band, Corrugated Metal Pipe Fitting	1,502.40	
		For Bituminous Coated, Add	*180.29*	

33 42 13 Stormwater Culverts *(33 42)*

33 42 13 13 Precast Concrete Stormwater Culverts *(33 42 13)*

33 42 13 13-0001 Precast Reinforced Concrete Box Culvert *(33 42 13 13)*

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0840 for crane lifting equipment.

33 42 13 13-0002	LF	3' x 3' Precast Reinforced Concrete Box Culvert	530.37	48.34
		For Each LF Of Cut-Off Section, Add	*21.21*	
33 42 13 13-0003	LF	4' x 2' Precast Reinforced Concrete Box Culvert	603.27	48.34
		For Each LF Of Cut-Off Section, Add	*24.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0004	LF	4' x 3' Precast Reinforced Concrete Box Culvert	721.02	48.34
		For Each LF Of Cut-Off Section, Add	*28.84*	
33 42 13 13-0005	LF	5' x 3' Precast Reinforced Concrete Box Culvert	863.43	60.42
		For Each LF Of Cut-Off Section, Add	*34.54*	
33 42 13 13-0006	LF	5' x 4' Precast Reinforced Concrete Box Culvert	885.86	60.42
		For Each LF Of Cut-Off Section, Add	*35.43*	
33 42 13 13-0007	LF	5' x 5' Precast Reinforced Concrete Box Culvert	897.08	60.42
		For Each LF Of Cut-Off Section, Add	*35.88*	
33 42 13 13-0008	LF	6' x 3' Precast Reinforced Concrete Box Culvert	924.43	62.84
		For Each LF Of Cut-Off Section, Add	*36.98*	
33 42 13 13-0009	LF	6' x 4' Precast Reinforced Concrete Box Culvert	930.04	62.84
		For Each LF Of Cut-Off Section, Add	*37.20*	
33 42 13 13-0010	LF	6' x 6' Precast Reinforced Concrete Box Culvert	1,030.98	62.84
		For Each LF Of Cut-Off Section, Add	*41.24*	
33 42 13 13-0011	LF	7' x 4' Precast Reinforced Concrete Box Culvert	1,050.70	72.51
		For Each LF Of Cut-Off Section, Add	*42.03*	
33 42 13 13-0012	LF	7' x 6' Precast Reinforced Concrete Box Culvert	1,103.94	98.61
		For Each LF Of Cut-Off Section, Add	*44.16*	
33 42 13 13-0013	LF	8' x 2' Precast Reinforced Concrete Box Culvert	1,036.59	62.84
		For Each LF Of Cut-Off Section, Add	*41.46*	
33 42 13 13-0014	LF	8' x 3' Precast Reinforced Concrete Box Culvert	1,056.31	72.51
		For Each LF Of Cut-Off Section, Add	*42.25*	
33 42 13 13-0015	LF	8' x 4' Precast Reinforced Concrete Box Culvert	1,073.13	72.51
		For Each LF Of Cut-Off Section, Add	*42.93*	
33 42 13 13-0016	LF	8' x 5' Precast Reinforced Concrete Box Culvert	1,286.16	96.67
		For Each LF Of Cut-Off Section, Add	*51.45*	
33 42 13 13-0017	LF	8' x 6' Precast Reinforced Concrete Box Culvert	1,290.64	96.67
		For Each LF Of Cut-Off Section, Add	*51.63*	
33 42 13 13-0018	LF	8' x 8' Precast Reinforced Concrete Box Culvert	1,415.09	120.85
		For Each LF Of Cut-Off Section, Add	*56.60*	
33 42 13 13-0019	LF	9' x 4' Precast Reinforced Concrete Box Culvert	1,430.83	96.67
		For Each LF Of Cut-Off Section, Add	*57.23*	
33 42 13 13-0020	LF	9' x 6' Precast Reinforced Concrete Box Culvert	1,496.96	120.85
		For Each LF Of Cut-Off Section, Add	*59.88*	
33 42 13 13-0021	LF	10' x 3' Precast Reinforced Concrete Box Culvert	1,502.57	120.85
		For Each LF Of Cut-Off Section, Add	*60.10*	
33 42 13 13-0022	LF	10' x 4' Precast Reinforced Concrete Box Culvert	1,850.23	120.85
		For Each LF Of Cut-Off Section, Add	*74.01*	
33 42 13 13-0023	LF	10' x 5' Precast Reinforced Concrete Box Culvert	1,921.96	145.02
		For Each LF Of Cut-Off Section, Add	*76.88*	
33 42 13 13-0024	LF	10' x 6' Precast Reinforced Concrete Box Culvert	1,944.38	145.02
		For Each LF Of Cut-Off Section, Add	*77.78*	
33 42 13 13-0025	LF	10' x 7' Precast Reinforced Concrete Box Culvert	1,949.99	145.02
		For Each LF Of Cut-Off Section, Add	*78.00*	
33 42 13 13-0026	LF	10' x 8' Precast Reinforced Concrete Box Culvert	1,957.84	145.02
		For Each LF Of Cut-Off Section, Add	*78.31*	
33 42 13 13-0027	LF	12' x 3' Precast Reinforced Concrete Box Culvert	2,016.12	169.19
		For Each LF Of Cut-Off Section, Add	*80.64*	
33 42 13 13-0028	LF	12' x 4' Precast Reinforced Concrete Box Culvert	2,016.12	169.19
		For Each LF Of Cut-Off Section, Add	*80.64*	
33 42 13 13-0029	LF	12' x 6' Precast Reinforced Concrete Box Culvert	2,016.12	169.19
		For Each LF Of Cut-Off Section, Add	*80.64*	
33 42 13 13-0030	LF	12' x 8' Precast Reinforced Concrete Box Culvert	2,016.12	169.19
		For Each LF Of Cut-Off Section, Add	*80.64*	
33 42 13 13-0031	LF	16' x 10' Precast Reinforced Concrete Box Culvert	2,985.03	193.36
		For Each LF Of Cut-Off Section, Add	*119.40*	
33 42 13 13-0032	LF	24' x 10' Precast Reinforced Concrete Box Culvert	4,218.69	193.36
		For Each LF Of Cut-Off Section, Add	*168.75*	

33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways *(33 42 13 13)*

Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0840 for crane lifting equipment.

33 42 13 13-0034	LF	3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,388.88	48.34
		For Each LF Of Cut-Off Section, Add	*55.56*	
33 42 13 13-0035	LF	4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,496.60	48.34
		For Each LF Of Cut-Off Section, Add	*59.86*	
33 42 13 13-0036	LF	4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,687.24	48.34
		For Each LF Of Cut-Off Section, Add	*67.49*	
33 42 13 13-0037	LF	5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,902.49	60.42
		For Each LF Of Cut-Off Section, Add	*76.10*	
33 42 13 13-0038	LF	5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,093.13	60.42
		For Each LF Of Cut-Off Section, Add	*83.73*	
33 42 13 13-0039	LF	5' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,283.78	60.42
		For Each LF Of Cut-Off Section, Add	*91.35*	
33 42 13 13-0040	LF	6' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,098.06	62.84
		For Each LF Of Cut-Off Section, Add	*83.92*	
33 42 13 13-0041	LF	6' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,288.71	62.84
		For Each LF Of Cut-Off Section, Add	*91.55*	
33 42 13 13-0042	LF	6' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,669.99	62.84
		For Each LF Of Cut-Off Section, Add	*106.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0043	LF	7' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,499.07	72.51
		For Each LF Of Cut-Off Section, Add	*99.96*	
33 42 13 13-0044	LF	7' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,933.55	98.61
		For Each LF Of Cut-Off Section, Add	*117.34*	
33 42 13 13-0045	LF	8' x 2' Precast Reinforced Concrete Box Culvert For Roadways	2,288.71	62.84
		For Each LF Of Cut-Off Section, Add	*91.55*	
33 42 13 13-0046	LF	8' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,499.07	72.51
		For Each LF Of Cut-Off Section, Add	*99.96*	
33 42 13 13-0047	LF	8' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,689.71	72.51
		For Each LF Of Cut-Off Section, Add	*107.59*	
33 42 13 13-0048	LF	8' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,929.60	96.67
		For Each LF Of Cut-Off Section, Add	*117.18*	
33 42 13 13-0049	LF	8' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,120.25	96.67
		For Each LF Of Cut-Off Section, Add	*124.81*	
33 42 13 13-0050	LF	8' x 8' Precast Reinforced Concrete Box Culvert For Roadways	3,550.84	120.85
		For Each LF Of Cut-Off Section, Add	*142.03*	
33 42 13 13-0051	LF	9' x 4' Precast Reinforced Concrete Box Culvert For Roadways	3,151.45	96.67
		For Each LF Of Cut-Off Section, Add	*126.06*	
33 42 13 13-0052	LF	9' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,608.22	120.85
		For Each LF Of Cut-Off Section, Add	*144.33*	
33 42 13 13-0053	LF	10' x 3' Precast Reinforced Concrete Box Culvert For Roadways	3,566.74	120.85
		For Each LF Of Cut-Off Section, Add	*142.67*	
33 42 13 13-0054	LF	10' x 4' Precast Reinforced Concrete Box Culvert For Roadways	3,793.11	120.85
		For Each LF Of Cut-Off Section, Add	*151.72*	
33 42 13 13-0055	LF	10' x 5' Precast Reinforced Concrete Box Culvert For Roadways	4,068.76	145.02
		For Each LF Of Cut-Off Section, Add	*162.75*	
33 42 13 13-0056	LF	10' x 6' Precast Reinforced Concrete Box Culvert For Roadways	4,295.14	145.02
		For Each LF Of Cut-Off Section, Add	*171.81*	
33 42 13 13-0057	LF	10' x 7' Precast Reinforced Concrete Box Culvert For Roadways	4,521.55	145.02
		For Each LF Of Cut-Off Section, Add	*180.86*	
33 42 13 13-0058	LF	10' x 8' Precast Reinforced Concrete Box Culvert For Roadways	4,747.92	145.02
		For Each LF Of Cut-Off Section, Add	*189.92*	
33 42 13 13-0059	LF	12' x 3' Precast Reinforced Concrete Box Culvert For Roadways	4,720.19	169.19
		For Each LF Of Cut-Off Section, Add	*188.81*	
33 42 13 13-0060	LF	12' x 4' Precast Reinforced Concrete Box Culvert For Roadways	4,977.50	169.19
		For Each LF Of Cut-Off Section, Add	*199.10*	
33 42 13 13-0061	LF	12' x 6' Precast Reinforced Concrete Box Culvert For Roadways	5,492.23	169.19
		For Each LF Of Cut-Off Section, Add	*219.69*	
33 42 13 13-0062	LF	12' x 8' Precast Reinforced Concrete Box Culvert For Roadways	6,006.95	169.19
		For Each LF Of Cut-Off Section, Add	*240.28*	
33 42 13 13-0063	LF	16' x 10' Precast Reinforced Concrete Box Culvert For Roadways	7,200.06	193.36
		For Each LF Of Cut-Off Section, Add	*288.00*	
33 42 13 13-0064	LF	24' x 10' Precast Reinforced Concrete Box Culvert For Roadways	9,144.54	193.36
		For Each LF Of Cut-Off Section, Add	*365.78*	

33 42 23 Headwalls and Endwalls for Stormwater Piping *(33 42)*

33 42 23 00-0001 Headwalls *(33 42 23)*

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls *(33 42 23 00-0001)*

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall *(33 42 23 00-0002)*

Note: Sized by pipe diameter.

33 42 23 00-0004	EA	12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,175.44	586.83
33 42 23 00-0005	EA	15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,485.39	625.95
33 42 23 00-0006	EA	18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,931.12	819.90
33 42 23 00-0007	EA	24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,981.72	1,173.66
33 42 23 00-0008	EA	30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,126.93	1,564.87
33 42 23 00-0009	EA	36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,197.47	2,062.68
33 42 23 00-0010	EA	42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,239.68	2,845.20
33 42 23 00-0011	EA	48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	8,599.99	3,353.26
33 42 23 00-0012	EA	54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	10,356.34	4,082.32
33 42 23 00-0013	EA	60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	12,455.34	4,941.69

33 42 23 00-0014 Precast Concrete Headwalls *(33 42 23 00-0001)*

33 42 23 00-0015	EA	12" Pipe, Precast Concrete Headwall	601.98	163.20
33 42 23 00-0016	EA	15" Pipe, Precast Concrete Headwall	629.19	172.26
33 42 23 00-0017	EA	18" Pipe, Precast Concrete Headwall	695.19	195.84
33 42 23 00-0018	EA	24" Pipe, Precast Concrete Headwall	763.96	208.54
33 42 23 00-0019	EA	30" Pipe, Precast Concrete Headwall	987.18	244.80
33 42 23 00-0020	EA	36" Pipe, Precast Concrete Headwall	1,119.20	253.87
33 42 23 00-0021	EA	42" Pipe, Precast Concrete Headwall	1,444.13	298.35
33 42 23 00-0022	EA	48" Pipe, Precast Concrete Headwall	1,584.85	328.71
33 42 23 00-0023	EA	54" Pipe, Precast Concrete Headwall	1,741.14	348.05
33 42 23 00-0024	EA	60" Pipe, Precast Concrete Headwall	1,961.12	348.05
33 42 23 00-0025	EA	72" Pipe, Precast Concrete Headwall	2,323.70	435.05
33 42 23 00-0026	EA	84" Pipe, Precast Concrete Headwall	3,214.85	522.07

33 42 23 00-0027 Precast Concrete Wingwalls *(33 42 23 00-0001)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0028	EA	18" ID Pipe (26" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	3,902.53	1,722.82
33 42 23 00-0029	EA	24" ID Pipe (32" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	4,192.57	1,914.25
33 42 23 00-0030	EA	30" ID Pipe (42" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	4,675.97	2,233.29
33 42 23 00-0031	EA	33" ID Pipe (46" Hole) Precast Concrete Wingwall Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	5,159.36	2,552.33
33 42 23 00-0032	EA	36" ID Pipe (50" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	5,159.36	2,552.33
33 42 23 00-0033	EA	44" ID Pipe (58" Hole) Precast Concrete Wingwall Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	5,352.72	2,679.95
33 42 23 00-0034	EA	48" ID Pipe (62" Hole) Precast Concrete Wingwall Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	8,006.89	2,743.75
33 42 23 00-0035	EA	52" ID Pipe (66" Hole) Precast Concrete Wingwall Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	8,296.92	2,935.18

33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor *(33 42 23 00-0001)*

33 42 23 00-0037	EA	34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	3,131.56	676.76

33 42 26 End Sections for Stormwater Piping *(33 42)*

33 42 26 16 Corrugated Metal End Sections for Stormwater Piping *(33 42 26)*

33 42 26 16-0001 Corrugated Metal Pipe End Sections *(33 42 26 16)*

33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections *(33 42 26 16-0001)*

33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections *(33 42 26 16-0002)*

Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.

33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	233.72	63.47
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	269.56	68.00
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	312.67	72.53
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	376.11	79.33
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	416.12	86.14

33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections *(33 42 26 16-0002)*

Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.

33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	658.61	97.47
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	853.18	116.02
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,294.82	135.36
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,578.57	154.69
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,883.21	193.36
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,201.15	232.03

33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections *(33 42 26 16-0002)*

Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.

33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	243.26	63.47
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	279.37	68.00
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	327.76	72.53
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	394.22	79.33
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	436.66	86.14
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	721.66	97.47
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	929.91	116.02
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	1,465.79	135.36
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	1,799.20	154.69
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	2,106.33	193.36
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	2,907.82	232.03
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	3,326.08	348.05
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	3,909.59	464.06
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	4,256.28	497.89
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section	4,611.11	531.74

33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section *(33 42 26 16-0002)*

33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	29.69
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	32.97
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	36.97
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	40.19
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	44.91
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	77.62
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	83.55
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	113.60
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	121.79
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	148.45
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	152.35
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	163.26
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	187.66

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	209.74	
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension	215.32	

33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0001)*

33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0048)*

Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.

33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	269.56	68.00
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	312.67	72.53
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	376.11	79.33
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	416.12	86.14

33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0048)*

Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.

33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	261.32	68.00
33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	297.44	72.53
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	332.50	79.33
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	374.48	86.14
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	539.89	97.47
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	780.27	116.02
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,200.96	135.36
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,516.02	154.69

33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0048)*

Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.

33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	265.50	68.00
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	306.52	72.53
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	346.71	79.33
33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	391.32	86.14
33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	568.51	97.47
33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	819.31	116.02
33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,263.41	135.36
33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,587.89	154.69
33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,912.74	193.36
33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,507.76	232.03
33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,507.42	348.05
33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,907.17	464.06

33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section *(33 42 26 16-0048)*

33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	32.97	
33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	36.97	
33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	40.19	
33 42 26 16-0080	EA	Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	44.91	
33 42 26 16-0081	EA	Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	77.62	
33 42 26 16-0082	EA	Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	83.55	
33 42 26 16-0083	EA	Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	113.60	
33 42 26 16-0084	EA	Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	126.51	
33 42 26 16-0085	EA	Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	148.45	
33 42 26 16-0086	EA	Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	154.23	
33 42 26 16-0087	EA	Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	178.58	
33 42 26 16-0088	EA	Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	204.53	

33 42 26 16-0089 Corrugated Aluminum Pipe End Sections *(33 42 26 16-0001)*

33 42 26 16-0090 Corrugated Aluminum Pipe End Sections *(33 42 26 16-0089)*

33 42 26 16-0091	EA	12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	344.61	63.47
33 42 26 16-0092	EA	15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	395.82	68.00
33 42 26 16-0093	EA	18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	467.19	72.53
33 42 26 16-0094	EA	21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	576.43	79.33
33 42 26 16-0095	EA	24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	748.34	86.14
33 42 26 16-0096	EA	30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,114.01	97.47
33 42 26 16-0097	EA	36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,510.61	116.02
33 42 26 16-0098	EA	36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	1,873.41	116.02
33 42 26 16-0099	EA	42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,386.31	135.36
33 42 26 16-0100	EA	48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,396.43	154.69
33 42 26 16-0101	EA	54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,767.62	193.36
33 42 26 16-0102	EA	60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,071.07	232.03
33 42 26 16-0103	EA	66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,764.87	348.05
33 42 26 16-0104	EA	72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,756.84	464.06
33 42 26 16-0105	EA	78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,377.41	497.89
33 42 26 16-0106	EA	84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,786.10	531.74
33 42 26 16-0107	EA	90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,615.63	580.08
33 42 26 16-0108	EA	96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,748.53	628.41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0109		**Toe Plate Extensions For Corrugated Aluminum Pipe End Section** *(33 42 26 16-0089)*		
33 42 26 16-0110	EA	Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	53.93	
33 42 26 16-0111	EA	Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	57.13	
33 42 26 16-0112	EA	Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	61.87	
33 42 26 16-0113	EA	Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	69.55	
33 42 26 16-0114	EA	Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	73.84	
33 42 26 16-0115	EA	Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	95.78	
33 42 26 16-0116	EA	Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	115.08	
33 42 26 16-0117	EA	Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	121.14	
33 42 26 16-0118	EA	Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	132.84	
33 42 26 16-0119	EA	Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	150.14	
33 42 26 16-0120	EA	Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	177.30	
33 42 26 16-0121	EA	Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	245.65	
33 42 26 16-0122	EA	Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	265.69	
33 42 26 16-0123	EA	Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	338.92	
33 42 26 16-0124	EA	Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	367.06	
33 42 26 16-0125	EA	Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	391.21	
33 42 26 16-0126	EA	Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	416.54	
33 42 26 16-0127	EA	Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	442.25	
33 42 26 16-0128		**Corrugated Aluminum Pipe-Arch End Sections** *(33 42 26 16-0001)*		
33 42 26 16-0129		**Corrugated Aluminum Pipe-Arch End Sections** *(33 42 26 16-0128)*		
33 42 26 16-0130	EA	17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	407.55	68.00
33 42 26 16-0131	EA	21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	495.77	72.53
33 42 26 16-0132	EA	24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	538.51	79.33
33 42 26 16-0133	EA	28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	581.23	86.14
33 42 26 16-0134	EA	35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	863.35	97.47
33 42 26 16-0135	EA	42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,527.29	116.02
33 42 26 16-0136	EA	42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,619.27	116.02
33 42 26 16-0137	EA	49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,159.44	135.36
33 42 26 16-0138	EA	57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,308.08	154.69
33 42 26 16-0139	EA	64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,791.61	193.36
33 42 26 16-0140	EA	71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,583.94	232.03
33 42 26 16-0141	EA	77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,668.97	348.05
33 42 26 16-0142	EA	83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,073.70	464.06
33 42 26 16-0143	EA	87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,789.02	497.89
33 42 26 16-0144	EA	95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,176.52	531.74
33 42 26 16-0145	EA	103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,002.58	580.08
33 42 26 16-0146	EA	112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,599.98	628.41
33 42 26 16-0147		**Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section** *(33 42 26 16-0128)*		
33 42 26 16-0148	EA	Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	57.13	
33 42 26 16-0149	EA	Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	61.87	
33 42 26 16-0150	EA	Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	65.31	
33 42 26 16-0151	EA	Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	71.51	
33 42 26 16-0152	EA	Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	82.45	
33 42 26 16-0153	EA	Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	107.42	
33 42 26 16-0154	EA	Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	117.08	
33 42 26 16-0155	EA	Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	132.84	
33 42 26 16-0156	EA	Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	150.14	
33 42 26 16-0157	EA	Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	177.30	
33 42 26 16-0158	EA	Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	224.17	
33 42 26 16-0159	EA	Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	283.68	
33 42 26 16-0160	EA	Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	383.89	
33 42 26 16-0161	EA	Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	435.52	
33 42 26 16-0162	EA	Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	456.51	
33 42 26 16-0163	EA	Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	473.84	
33 42 26 16-0164	EA	Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	494.88	
33 42 26 16-0165		**Low Slope Corrugated Steel Pipe End Sections And Accessories** *(33 42 26 16-0001)*		
33 42 26 16-0166		**4:1 Corrugated Steel Pipe End Sections** *(33 42 26 16-0165)*		
33 42 26 16-0167	EA	15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	520.17	68.00
33 42 26 16-0168	EA	18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	666.50	72.53
33 42 26 16-0169	EA	21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	813.96	79.33
33 42 26 16-0170	EA	24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	971.77	86.14
33 42 26 16-0171	EA	30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,029.55	97.47
33 42 26 16-0172	EA	36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,344.30	116.02
33 42 26 16-0173	EA	42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,114.12	135.36
33 42 26 16-0174		**3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections** *(33 42 26 16-0165)*		
		Note: Includes nut and bolt set.		
33 42 26 16-0175	EA	3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	367.50	
33 42 26 16-0176	EA	3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	729.84	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0177	EA	3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	800.89	
33 42 26 16-0178	EA	3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	833.05	

33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections *(33 42 26 16-0165)*

33 42 26 16-0180	EA	15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	543.99	68.00
33 42 26 16-0181	EA	18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	709.35	72.53
33 42 26 16-0182	EA	21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	940.05	79.33
33 42 26 16-0183	EA	24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,102.83	86.14
33 42 26 16-0184	EA	30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,307.76	97.47
33 42 26 16-0185	EA	36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,589.85	116.02
33 42 26 16-0186	EA	42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,421.35	135.36

33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections *(33 42 26 16-0165)*

Note: Includes nut and bolt set.

33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	710.50	
33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	754.78	
33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	830.36	
33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	873.84	

33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section *(33 42 26 16-0165)*

33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	63.44	
33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	71.03	
33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	77.29	
33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	86.23	
33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	128.71	
33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	138.14	
33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	184.70	

33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories *(33 42 26 16-0001)*

33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section *(33 42 26 16-0200)*

33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	616.32	72.53
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	770.72	79.33
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	910.55	86.14
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,701.69	97.47

33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections *(33 42 26 16-0200)*

Note: Includes nut and bolt set.

33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section	436.93	
33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section	790.39	
33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section	833.05	
33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section	1,222.98	

33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section *(33 42 26 16-0200)*

33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section	64.19	
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section	72.71	
33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	79.25	
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	94.84	

33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping *(33 42 26)*

33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections *(33 42 26 19)*

33 42 26 19-0002	EA	4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	51.73	17.86
33 42 26 19-0003	EA	6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	95.17	26.81
33 42 26 19-0004	EA	8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	128.70	33.50
33 42 26 19-0005	EA	10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	202.85	53.60
33 42 26 19-0006	EA	12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	240.28	60.30
33 42 26 19-0007	EA	15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	255.19	64.78
33 42 26 19-0008	EA	18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	302.98	71.48
33 42 26 19-0009	EA	24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	390.12	84.87
33 42 26 19-0010	EA	30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	790.18	96.04
33 42 26 19-0011	EA	36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	962.03	107.21

33 42 26 23 Concrete End Sections for Stormwater Piping *(33 42 26)*

33 42 26 23-0001 Precast Concrete End Sections *(33 42 26 23)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 23-0002		**Precast Concrete End Sections** *(33 42 26 23-0001)*		
33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section	464.71	106.35
33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section	617.91	131.65
33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section	767.05	166.64
33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section	884.54	199.29
33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section	950.23	230.65
33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section	1,207.83	288.11
33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section	1,520.51	432.73
33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section	1,883.67	546.05
33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section	2,292.05	684.97
33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section	2,523.80	772.47
33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section	2,764.95	865.28
33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section	3,012.70	961.95
33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section	2,903.31	772.93
33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section	3,368.66	966.14
33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section	4,036.83	1,207.67
33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section	4,787.49	1,449.21
33 42 26 23-0019		**Flared Precast Concrete End Sections** *(33 42 26 23-0001)*		
33 42 26 23-0020	EA	12" Diameter Pipe, Flared Precast Concrete End Section	573.42	112.63
33 42 26 23-0021	EA	15" Diameter Pipe, Flared Precast Concrete End Section	692.61	140.38
33 42 26 23-0022	EA	18" Diameter Pipe, Flared Precast Concrete End Section	844.78	177.69
33 42 26 23-0023	EA	21" Diameter Pipe, Flared Precast Concrete End Section	970.37	212.51
33 42 26 23-0024	EA	24" Diameter Pipe, Flared Precast Concrete End Section	1,176.91	245.95
33 42 26 23-0025	EA	27" Diameter Pipe, Flared Precast Concrete End Section	1,471.04	392.81
33 42 26 23-0026	EA	30" Diameter Pipe, Flared Precast Concrete End Section	1,601.60	540.82
33 42 26 23-0027	EA	36" Diameter Pipe, Flared Precast Concrete End Section	2,137.97	682.55
33 42 26 23-0028	EA	42" Diameter Pipe, Flared Precast Concrete End Section	2,585.58	856.39
33 42 26 23-0029	EA	48" Diameter Pipe, Flared Precast Concrete End Section	2,818.84	965.82
33 42 26 23-0030	EA	54" Diameter Pipe, Flared Precast Concrete End Section	3,153.68	1,081.74
33 42 26 23-0031	EA	60" Diameter Pipe, Flared Precast Concrete End Section	3,496.01	1,201.53
33 42 26 23-0032	EA	66" Diameter Pipe, Flared Precast Concrete End Section	4,068.21	1,384.35
33 42 26 23-0033	EA	72" Diameter Pipe, Flared Precast Concrete End Section	4,707.69	1,545.13
33 42 26 23-0034	EA	78" Diameter Pipe, Flared Precast Concrete End Section	5,330.87	1,738.19
33 42 26 23-0035	EA	84" Diameter Pipe, Flared Precast Concrete End Section	6,109.63	1,931.07

33 42 31 Stormwater Area Drains and Inlets *(33 42)*

33 42 31 00-0001 Storm Drains *(33 42 31)*

33 42 31 00-0002 Catch Basins And Inlet Basins *(33 42 31 00-0001)*

Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.

33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins *(33 42 31 00-0002)*

Note: Inside dimensions.

33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins *(33 42 31 00-0003)*

33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,543.74	288.63
33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,842.93	338.19
33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,142.11	387.65
33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,441.29	437.21
33 42 31 00-0009	EA	6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,740.48	486.68

33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins *(33 42 31 00-0003)*

33 42 31 00-0011	EA	2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,975.65	286.89
33 42 31 00-0012	EA	3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,446.95	382.53
33 42 31 00-0013	EA	4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,127.40	521.62
33 42 31 00-0014	EA	5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,806.80	608.57
33 42 31 00-0015	EA	6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,347.26	695.50

33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins *(33 42 31 00-0003)*

33 42 31 00-0017	EA	2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,123.02	312.97
33 42 31 00-0018	EA	3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,940.61	434.68
33 42 31 00-0019	EA	4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,596.54	565.09
33 42 31 00-0020	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,153.37	652.03
33 42 31 00-0021	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,268.89	834.60

33 42 31 00-0022 Cast In Place, Catch Basin *(33 42 31 00-0002)*

Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.

33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0024	EA	3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,015.40	348.97
33 42 31 00-0025	EA	3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,139.79	371.05
33 42 31 00-0026	EA	4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,336.84	398.52
33 42 31 00-0027	EA	4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,625.71	441.12
33 42 31 00-0028	EA	5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,831.08	469.55
33 42 31 00-0029	EA	5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,966.19	492.41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0030	EA	6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,171.73	520.84
33 42 31 00-0031	EA	6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,304.14	543.79
33 42 31 00-0032	EA	7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,510.81	572.13
33 42 31 00-0033	EA	7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,644.79	595.09
33 42 31 00-0034	EA	8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,850.24	623.52
33 42 31 00-0035	VLF	>8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	481.29	77.89

33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0037	EA	3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,325.06	403.39
33 42 31 00-0038	EA	3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,481.69	431.74
33 42 31 00-0039	EA	4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,688.12	460.16
33 42 31 00-0040	EA	4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,025.26	509.63
33 42 31 00-0041	EA	5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,251.65	541.80
33 42 31 00-0042	EA	5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,407.62	568.48
33 42 31 00-0043	EA	6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,636.53	600.65
33 42 31 00-0044	EA	6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,792.50	627.34
33 42 31 00-0045	EA	7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,019.92	659.51
33 42 31 00-0046	EA	7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,176.25	686.19
33 42 31 00-0047	EA	8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,403.76	718.36
33 42 31 00-0048	VLF	>8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	550.49	89.81

33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0050	EA	3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,656.36	461.46
33 42 31 00-0051	EA	3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,822.34	490.76
33 42 31 00-0052	EA	4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,059.89	525.45
33 42 31 00-0053	EA	4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,445.86	581.87
33 42 31 00-0054	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,695.71	617.78
33 42 31 00-0055	EA	5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,873.94	648.29
33 42 31 00-0056	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,123.78	684.20
33 42 31 00-0057	EA	6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,301.64	714.72
33 42 31 00-0058	EA	7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,551.49	750.61
33 42 31 00-0059	EA	7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,729.72	781.13
33 42 31 00-0060	EA	8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,979.56	817.13
33 42 31 00-0061	VLF	>8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	622.41	102.15

33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0063	EA	3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,066.88	535.10
33 42 31 00-0064	EA	3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,259.63	565.35
33 42 31 00-0065	EA	4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,522.53	604.47
33 42 31 00-0066	EA	4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,962.26	668.64
33 42 31 00-0067	EA	5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,239.48	709.14
33 42 31 00-0068	EA	5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,445.16	744.19
33 42 31 00-0069	EA	6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,722.73	784.70
33 42 31 00-0070	EA	6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,928.42	819.82
33 42 31 00-0071	EA	7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,205.64	860.33
33 42 31 00-0072	EA	7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,410.18	895.37
33 42 31 00-0073	EA	8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,688.89	935.88
33 42 31 00-0074	VLF	>8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	711.16	117.02

33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0076	EA	4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	3,948.69	678.72
33 42 31 00-0077	EA	4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,438.19	750.01
33 42 31 00-0078	EA	5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,739.23	794.43
33 42 31 00-0079	EA	5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,967.59	833.38
33 42 31 00-0080	EA	6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,266.01	877.72
33 42 31 00-0081	EA	6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,495.50	916.67
33 42 31 00-0082	EA	7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,795.40	961.09
33 42 31 00-0083	EA	7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,022.28	1,000.04
33 42 31 00-0084	EA	8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,323.32	1,044.38
33 42 31 00-0085	VLF	>8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,095.49	130.58

33 42 31 00-0086 5'-6" x 5'-6", Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0087	EA	4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,395.46	756.87
33 42 31 00-0088	EA	4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,082.30	856.77
33 42 31 00-0089	EA	5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,414.87	906.15
33 42 31 00-0090	EA	5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,674.78	950.40
33 42 31 00-0091	EA	6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,008.84	1,000.13
33 42 31 00-0092	EA	6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,269.89	1,044.38
33 42 31 00-0093	EA	7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,602.46	1,094.11
33 42 31 00-0094	EA	7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,862.37	1,138.36
33 42 31 00-0095	EA	8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,194.94	1,188.08
33 42 31 00-0096	VLF	>8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	899.37	148.49

33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins *(33 42 31 00-0022)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0098	EA	4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	4,865.70	838.69
33 42 31 00-0099	EA	4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,622.04	948.31
33 42 31 00-0100	EA	5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,978.95	1,002.04
33 42 31 00-0101	EA	5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,262.84	1,050.29
33 42 31 00-0102	EA	6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,618.63	1,104.02
33 42 31 00-0103	EA	6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,904.00	1,152.27
33 42 31 00-0104	EA	7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,259.42	1,206.00
33 42 31 00-0105	EA	7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,543.67	1,254.24
33 42 31 00-0106	EA	8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,900.59	1,307.97
33 42 31 00-0107	VLF	>8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	987.62	163.53

33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0109	EA	4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,356.76	924.40
33 42 31 00-0110	EA	4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,369.99	1,070.98
33 42 31 00-0111	EA	5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,761.22	1,130.44
33 42 31 00-0112	EA	5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,080.83	1,184.44
33 42 31 00-0113	EA	6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,472.08	1,243.82
33 42 31 00-0114	EA	6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,791.69	1,297.89
33 42 31 00-0115	EA	7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,182.92	1,357.26
33 42 31 00-0116	EA	7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,502.53	1,411.26
33 42 31 00-0117	EA	8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,895.28	1,470.72
33 42 31 00-0118	VLF	>8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,111.86	183.87

33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0120	EA	4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	5,869.99	1,013.87
33 42 31 00-0121	EA	4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	6,977.87	1,173.83
33 42 31 00-0122	EA	5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,393.98	1,237.47
33 42 31 00-0123	EA	5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,737.04	1,295.54
33 42 31 00-0124	EA	6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,154.19	1,359.10
33 42 31 00-0125	EA	6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,497.25	1,417.25
33 42 31 00-0126	EA	7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,913.35	1,480.80
33 42 31 00-0127	EA	7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,257.56	1,538.97
33 42 31 00-0128	EA	8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,673.56	1,602.51
33 42 31 00-0129	VLF	>8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,209.24	200.31

33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0131	EA	4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	6,616.84	1,137.92
33 42 31 00-0132	EA	4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,610.71	1,280.85
33 42 31 00-0133	EA	5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,050.18	1,348.57
33 42 31 00-0134	EA	5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,419.24	1,410.82
33 42 31 00-0135	EA	6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,859.75	1,478.54
33 42 31 00-0136	EA	6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,228.81	1,540.79
33 42 31 00-0137	EA	7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,668.27	1,608.51
33 42 31 00-0138	EA	7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,037.33	1,670.76
33 42 31 00-0139	EA	8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,477.94	1,738.49
33 42 31 00-0140	VLF	>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,309.72	217.35

33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins *(33 42 31 00-0022)*

33 42 31 00-0142	EA	4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	7,194.36	1,238.07
33 42 31 00-0143	EA	4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	8,266.80	1,392.05
33 42 31 00-0144	EA	5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	8,730.86	1,463.85
33 42 31 00-0145	EA	5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,124.77	1,530.27
33 42 31 00-0146	EA	6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,588.74	1,602.09
33 42 31 00-0147	EA	6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,980.39	1,668.50
33 42 31 00-0148	EA	7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,446.62	1,740.32
33 42 31 00-0149	EA	7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,840.55	1,806.73
33 42 31 00-0150	EA	8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,296.79	1,878.54
33 42 31 00-0151	VLF	>8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,413.07	234.81

33 42 31 00-0152 Precast Concrete Catch Basins *(33 42 31 00-0002)*

Note: Inside dimensions.

33 42 31 00-0153 1'-6" Diameter Precast Catch Basins *(33 42 31 00-0152)*

33 42 31 00-0154	EA	4' Deep, 1'-6" Diameter Precast Catch Basins	618.50	195.66
33 42 31 00-0155	EA	6' Deep, 1'-6" Diameter Precast Catch Basins	862.44	293.49
33 42 31 00-0156	EA	8' Deep, 1'-6" Diameter Precast Catch Basins	1,094.66	381.54
33 42 31 00-0157	EA	10' Deep, 1'-6" Diameter Precast Catch Basins	1,310.07	451.00
33 42 31 00-0158	EA	12' Deep, 1'-6" Diameter Precast Catch Basins	1,615.09	572.31
33 42 31 00-0159	EA	14' Deep, 1'-6" Diameter Precast Catch Basins	1,848.27	660.36
33 42 31 00-0160	VLF	Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	128.89	44.03

33 42 31 00-0161 2' Diameter Precast Catch Basins *(33 42 31 00-0152)*

33 42 31 00-0162	EA	4' Deep, 2' Diameter Precast Catch Basin	704.26	217.68
33 42 31 00-0163	EA	6' Deep, 2' Diameter Precast Catch Basin	976.64	322.85

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0164	EA	8' Deep, 2' Diameter Precast Catch Basin	1,234.69	425.57
33 42 31 00-0165	EA	10' Deep, 2' Diameter Precast Catch Basin	1,472.82	496.49
33 42 31 00-0166	EA	12' Deep, 2' Diameter Precast Catch Basin	1,826.98	635.90
33 42 31 00-0167	EA	14' Deep, 2' Diameter Precast Catch Basin	2,088.08	733.74
33 42 31 00-0168	VLF	Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	145.68	52.82

33 42 31 00-0169 3' Diameter Precast Catch Basins *(33 42 31 00-0152)*

33 42 31 00-0170	EA	4' Deep, 3' Diameter Precast Catch Basin	926.12	256.81
33 42 31 00-0171	EA	6' Deep, 3' Diameter Precast Catch Basin	1,267.14	379.59
33 42 31 00-0172	EA	8' Deep, 3' Diameter Precast Catch Basin	1,594.63	501.38
33 42 31 00-0173	EA	10' Deep, 3' Diameter Precast Catch Basin	1,985.94	626.12
33 42 31 00-0174	EA	12' Deep, 3' Diameter Precast Catch Basin	2,346.83	746.45
33 42 31 00-0175	EA	14' Deep, 3' Diameter Precast Catch Basin	2,695.70	868.74
33 42 31 00-0176	VLF	Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	185.70	62.05

33 42 31 00-0177 4' Diameter Precast Catch Basins *(33 42 31 00-0152)*

33 42 31 00-0178	EA	4' Deep, 4' Diameter Precast Catch Basin	1,117.66	285.67
33 42 31 00-0179	EA	6' Deep, 4' Diameter Precast Catch Basin	1,455.76	391.33
33 42 31 00-0180	EA	8' Deep, 4' Diameter Precast Catch Basin	1,956.13	586.99
33 42 31 00-0181	EA	10' Deep, 4' Diameter Precast Catch Basin	2,441.05	733.74
33 42 31 00-0182	EA	12' Deep, 4' Diameter Precast Catch Basin	2,886.85	880.48
33 42 31 00-0183	EA	14' Deep, 4' Diameter Precast Catch Basin	3,319.35	1,027.23
33 42 31 00-0184	VLF	Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	228.11	73.37

33 42 31 00-0185 5' Diameter Precast Catch Basins *(33 42 31 00-0152)*

33 42 31 00-0186	EA	4' Deep, 5' Diameter Precast Catch Basin	1,505.37	391.33
33 42 31 00-0187	EA	6' Deep, 5' Diameter Precast Catch Basin	2,066.40	586.99
33 42 31 00-0188	EA	8' Deep, 5' Diameter Precast Catch Basin	2,630.32	782.65
33 42 31 00-0189	EA	10' Deep, 5' Diameter Precast Catch Basin	3,218.67	978.31
33 42 31 00-0190	EA	12' Deep, 5' Diameter Precast Catch Basin	3,798.89	1,173.97
33 42 31 00-0191	EA	14' Deep, 5' Diameter Precast Catch Basin	4,422.50	1,369.64
33 42 31 00-0192	VLF	Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	303.52	97.83

33 42 31 00-0193 6' Diameter Precast Catch Basins *(33 42 31 00-0152)*

33 42 31 00-0194	EA	4' Deep, 6' Diameter Precast Catch Basin	2,204.23	586.99
33 42 31 00-0195	EA	6' Deep, 6' Diameter Precast Catch Basin	2,997.12	880.48
33 42 31 00-0196	EA	8' Deep, 6' Diameter Precast Catch Basin	3,843.78	1,173.97
33 42 31 00-0197	EA	10' Deep, 6' Diameter Precast Catch Basin	4,790.93	1,467.47
33 42 31 00-0198	EA	12' Deep, 6' Diameter Precast Catch Basin	5,710.52	1,760.96
33 42 31 00-0199	EA	14' Deep, 6' Diameter Precast Catch Basin	6,610.20	2,054.45
33 42 31 00-0200	VLF	Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	452.54	146.75

33 42 31 00-0201 Precast Catch Basins Accessories *(33 42 31 00-0152)*

33 42 31 00-0202	EA	Single Or Double Wing Slab Top With Throat	1,360.42	635.90
33 42 31 00-0203	EA	4' x 4' Weir Box, Precast Catch Basin	602.00	78.27
33 42 31 00-0204	EA	4' Diameter Inlet Round To Square Adapter, Precast Catch Basin	342.85	83.16
33 42 31 00-0205	EA	3' Diameter, Up To 6" High, Precast Extension Ring	429.34	122.29
		For Each Additional Inch In Height, Add	*51.16*	
33 42 31 00-0206	EA	4' Diameter, Up To 6" High, Precast Extension Ring	506.72	146.75
		For Each Additional Inch In Height, Add	*59.97*	
33 42 31 00-0207	EA	5' Diameter, Up To 6" High, Precast Extension Ring	591.01	171.21
		For Each Additional Inch In Height, Add	*70.00*	
33 42 31 00-0208	EA	6' Diameter, Up To 6" High, Precast Extension Ring	743.15	244.58
		For Each Additional Inch In Height, Add	*83.14*	
33 42 31 00-0209	EA	Adjust Existing Catch Basin Inlet Grate To Match Grade	586.95	

33 42 31 00-0210 Catch Basin Risers *(33 42 31 00-0152)*

33 42 31 00-0211	EA	Up To 860 Square Inch, Up to 2" Rise, Catch Basin Riser	304.12	
33 42 31 00-0212	EA	>860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser	335.79	
33 42 31 00-0213	EA	>1140 Square Inch, Up To 2" Rise, Catch Basin Riser	373.32	
33 42 31 00-0214	EA	Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	326.92	
33 42 31 00-0215	EA	>860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	360.70	
33 42 31 00-0216	EA	>1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	402.27	
33 42 31 00-0217	EA	Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	359.89	
33 42 31 00-0218	EA	>860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	390.05	
33 42 31 00-0219	EA	>1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	431.80	

33 42 31 00-0220 Cast In Place, Storm Drain Cleanout *(33 42 31 00-0002)*

Note: Inside span.

33 42 31 00-0221	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	4,236.36	688.37
33 42 31 00-0222	EA	6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	4,826.36	785.57
33 42 31 00-0223	EA	6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,478.43	891.55
33 42 31 00-0224	EA	7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	6,584.42	1,069.50

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0225	EA	8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	7,976.42	1,291.19

33 42 31 00-0226 Precast Concrete Inlet Boxes *(33 42 31 00-0002)*
Note: Inside dimensions.

33 42 31 00-0227 Precast Concrete Inlet Boxes *(33 42 31 00-0226)*

33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes *(33 42 31 00-0227)*
Note: Yard inlet.

33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes *(33 42 31 00-0228)*

33 42 31 00-0230	EA	24" Height, 24" x 24" ID, Precast Concrete Inlet Box	657.26	68.48
33 42 31 00-0231	EA	30" Height, 24" x 24" ID, Precast Concrete Inlet Box	773.34	83.16
33 42 31 00-0232	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box	889.40	97.83
33 42 31 00-0233	EA	42" Height, 24" x 24" ID, Precast Concrete Inlet Box	1,006.70	113.11

33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers *(33 42 31 00-0228)*

33 42 31 00-0235	EA	6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	169.88	
33 42 31 00-0236	EA	12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	271.26	
33 42 31 00-0237	EA	18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	382.44	
33 42 31 00-0238	EA	24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	493.62	
33 42 31 00-0239	EA	30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	604.80	
33 42 31 00-0240	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	715.96	

33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes *(33 42 31 00-0227)*

33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes *(33 42 31 00-0241)*

33 42 31 00-0243	EA	36" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,361.79	193.36
33 42 31 00-0244	EA	42" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,533.34	223.57
33 42 31 00-0245	EA	48" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,704.90	253.78
33 42 31 00-0246	EA	54" Height, 22" x 48" ID, Precast Concrete Inlet Box	1,876.58	284.07
33 42 31 00-0247	EA	60" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,048.28	314.35
33 42 31 00-0248	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,219.98	344.64
33 42 31 00-0249	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box	2,391.69	374.92

33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers *(33 42 31 00-0241)*

33 42 31 00-0251	EA	6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	333.00	
33 42 31 00-0252	EA	12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	529.01	
33 42 31 00-0253	EA	18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	577.97	
33 42 31 00-0254	EA	24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	738.00	
33 42 31 00-0255	EA	30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	898.05	
33 42 31 00-0256	EA	36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,053.49	
33 42 31 00-0257	EA	42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,225.04	
33 42 31 00-0258	EA	48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,396.60	
33 42 31 00-0259	EA	54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,568.29	
33 42 31 00-0260	EA	60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,739.98	
33 42 31 00-0261	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,911.68	
33 42 31 00-0262	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,083.39	

33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes *(33 42 31 00-0227)*

33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes *(33 42 31 00-0263)*

33 42 31 00-0265	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box	1,319.27	212.70
33 42 31 00-0266	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box	1,491.80	245.93
33 42 31 00-0267	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box	1,664.35	279.16
33 42 31 00-0268	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box	1,837.04	312.48
33 42 31 00-0269	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box	2,009.75	345.79
33 42 31 00-0270	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box	2,182.45	379.10
33 42 31 00-0271	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box	2,355.14	412.42

33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers *(33 42 31 00-0263)*

33 42 31 00-0273	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	332.16	
33 42 31 00-0274	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	521.22	
33 42 31 00-0275	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	571.52	
33 42 31 00-0276	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	728.83	
33 42 31 00-0277	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	886.14	
33 42 31 00-0278	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,042.49	
33 42 31 00-0279	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,212.37	
33 42 31 00-0280	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,381.29	
33 42 31 00-0281	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,551.16	
33 42 31 00-0282	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,720.07	
33 42 31 00-0283	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,889.95	
33 42 31 00-0284	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,059.83	

33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes *(33 42 31 00-0227)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0286		**42" x 48" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0285)*		
33 42 31 00-0287	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box	1,564.27	232.03
33 42 31 00-0288	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box	1,766.72	269.73
33 42 31 00-0289	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box	1,969.17	308.41
33 42 31 00-0290	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,170.65	346.11
33 42 31 00-0291	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,373.11	384.78
33 42 31 00-0292	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,575.55	422.49
33 42 31 00-0293	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,777.04	460.19
33 42 31 00-0294		**42" x 48" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0285)*		
33 42 31 00-0295	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	365.06	
33 42 31 00-0296	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	585.11	
33 42 31 00-0297	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	636.84	
33 42 31 00-0298	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	814.64	
33 42 31 00-0299	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	992.43	
33 42 31 00-0300	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,170.24	
33 42 31 00-0301	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,361.08	
33 42 31 00-0302	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,551.94	
33 42 31 00-0303	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,742.78	
33 42 31 00-0304	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,933.63	
33 42 31 00-0305	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,124.48	
33 42 31 00-0306	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,315.33	
33 42 31 00-0307		**42" x 48" ID, Precast Concrete Inlet Box Tops** *(33 42 31 00-0285)*		
33 42 31 00-0308	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab	890.47	145.02
33 42 31 00-0309		**48" x 54" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0227)*		
33 42 31 00-0310		**48" x 54" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0309)*		
33 42 31 00-0311	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box	2,203.01	257.81
33 42 31 00-0312	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box	2,471.60	300.19
33 42 31 00-0313	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box	2,740.19	342.57
33 42 31 00-0314	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,008.48	384.78
33 42 31 00-0315	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,276.76	427.01
33 42 31 00-0316	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,545.05	469.23
33 42 31 00-0317	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,813.33	511.46
33 42 31 00-0318		**48" x 54" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0309)*		
33 42 31 00-0319	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	367.53	
33 42 31 00-0320	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	577.15	
33 42 31 00-0321	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	841.56	
33 42 31 00-0322	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,105.97	
33 42 31 00-0323	EA	30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,354.25	
33 42 31 00-0324	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,618.66	
33 42 31 00-0325	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,887.25	
33 42 31 00-0326	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,155.84	
33 42 31 00-0327	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,424.13	
33 42 31 00-0328	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,692.41	
33 42 31 00-0329	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,960.70	
33 42 31 00-0330	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	3,228.98	
33 42 31 00-0331		**48" x 54" ID, Precast Concrete Inlet Box Tops** *(33 42 31 00-0309)*		
33 42 31 00-0332	EA	48" x 54" ID, Precast Concrete Inlet Box Top Slab	967.68	157.11
33 42 31 00-0333		**48" x 66" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0227)*		
33 42 31 00-0334		**48" x 66" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0333)*		
33 42 31 00-0335	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box	2,545.99	324.84
33 42 31 00-0336	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box	2,843.07	379.12
33 42 31 00-0337	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,140.15	433.39
33 42 31 00-0338	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,436.63	487.36
33 42 31 00-0339	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,733.13	541.33
33 42 31 00-0340	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,029.60	595.31
33 42 31 00-0341	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,326.09	649.29
33 42 31 00-0342		**48" x 66" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0333)*		
33 42 31 00-0343	EA	6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	405.10	
33 42 31 00-0344	EA	12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	620.70	
33 42 31 00-0345	EA	18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	917.53	
33 42 31 00-0346	EA	24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,214.33	
33 42 31 00-0347	EA	30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,484.08	
33 42 31 00-0348	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,780.90	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0349	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,077.98	
33 42 31 00-0350	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,375.05	
33 42 31 00-0351	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,671.54	
33 42 31 00-0352	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,968.03	
33 42 31 00-0353	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,264.51	
33 42 31 00-0354	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,561.00	
33 42 31 00-0355		**48" x 66" ID, Precast Concrete Inlet Box Tops** *(33 42 31 00-0333)*		
33 42 31 00-0356	EA	48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,076.14	175.95
33 42 31 00-0357		**42" x 102" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0227)*		
33 42 31 00-0358		**42" x 102" ID, Precast Concrete Inlet Boxes** *(33 42 31 00-0357)*		
33 42 31 00-0359	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,195.89	437.96
33 42 31 00-0360	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,572.56	510.46
33 42 31 00-0361	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,949.24	582.01
33 42 31 00-0362	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,324.95	654.52
33 42 31 00-0363	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,701.62	726.06
33 42 31 00-0364	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,077.32	797.60
33 42 31 00-0365	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,454.97	870.12
33 42 31 00-0366		**42" x 102" ID, Precast Concrete Inlet Box Risers** *(33 42 31 00-0357)*		
33 42 31 00-0367	EA	6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	544.90	
33 42 31 00-0368	EA	12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	821.02	
33 42 31 00-0369	EA	18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,190.94	
33 42 31 00-0370	EA	24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,560.84	
33 42 31 00-0371	EA	30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,902.71	
33 42 31 00-0372	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,272.61	
33 42 31 00-0373	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,649.29	
33 42 31 00-0374	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,025.97	
33 42 31 00-0375	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,401.67	
33 42 31 00-0376	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,778.34	
33 42 31 00-0377	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,154.04	
33 42 31 00-0378	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,530.73	
33 42 31 00-0379		**42" x 102" ID, Precast Concrete Inlet Box Tops** *(33 42 31 00-0357)*		
33 42 31 00-0380	EA	42" x 102" ID, Precast Concrete Inlet Box Top Slab	1,456.99	193.36
33 42 31 00-0381		**Frames And Grates For Inlets** *(33 42 31 00-0228)*		
33 42 31 00-0382		**Inlet Frames And Grates** *(33 42 31 00-0381)*		
33 42 31 00-0383	EA	24" x 24", Heavy Duty Inlet Grate Note: For type A, B, D, or E inlets.	288.73	45.33
33 42 31 00-0384	EA	47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT) Note: For type A, B, D, or E inlets.	367.82	45.33
33 42 31 00-0385	EA	47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT) Note: Includes legend: Dump No Waste "Drains To Waterways".	367.82	45.33
33 42 31 00-0386	EA	Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT Note: Legend: Dump No Waste "Drains to Waterways"	367.82	45.33
33 42 31 00-0387	EA	Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	400.82	45.33
33 42 31 00-0388	EA	Type B Inlet Dirt Plate (US Foundry 5217 BK)	326.51	90.67
33 42 31 00-0389	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942)	372.70	90.67
33 42 31 00-0390	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4) Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".	464.22	113.33
33 42 31 00-0391	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	404.83	113.33
33 42 31 00-0392	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	411.43	113.33
33 42 31 00-0393	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	424.63	113.33
33 42 31 00-0394	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	437.82	113.33
33 42 31 00-0395	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	424.63	113.33
33 42 31 00-0396	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	437.82	113.33
33 42 31 00-0397	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	451.02	113.33
33 42 31 00-0398	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	622.59	113.33
33 42 31 00-0399	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	648.99	113.33
33 42 31 00-0400	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	675.39	113.33
33 42 31 00-0401	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701)	477.42	113.33
33 42 31 00-0402	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6)	437.82	113.33
33 42 31 00-0403	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8)	437.82	113.33
33 42 31 00-0404	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6)	833.66	113.33
33 42 31 00-0405	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8)	833.66	113.33
33 42 31 00-0406	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB)	381.31	124.66
33 42 31 00-0407	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648) Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	506.69	124.66
33 42 31 00-0408	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848) Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	506.69	124.66

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0409	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)	552.88	124.66
		Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0410	EA	Type B Inlet Frame (US Foundry 5216 FRM)	625.47	124.66
33 42 31 00-0411	EA	Type D Inlet Frame (US Foundry 2999 FRM)	546.28	124.66
33 42 31 00-0412	EA	Type B Inlet Frame (Campbell Foundry 2618-0202)	750.85	124.66
33 42 31 00-0413	EA	Type D Inlet Frame (Campbell Foundry 2617-0002)	671.66	124.66
33 42 31 00-0414	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340)	877.37	181.33
33 42 31 00-0415	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342)	1,352.50	181.33
33 42 31 00-0416	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340)	857.58	181.33
33 42 31 00-0417	EA	Type E Inlet, Double Frame And Grate (General Foundries 52342)	1,290.47	181.33
33 42 31 00-0418	EA	Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340)	1,421.65	272.00
33 42 31 00-0419	EA	Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084)	1,501.72	362.66
33 42 31 00-0420	EA	6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186)	1,629.38	362.66
33 42 31 00-0421	EA	8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198)	1,629.38	362.66
33 42 31 00-0422	EA	6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266)	1,464.41	362.66
33 42 31 00-0423	EA	8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268)	1,464.41	362.66
33 42 31 00-0424	EA	Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198)	1,682.17	362.66

33 42 31 00-0425 Concrete Drainage Inlet Structures (CALTRANS) *(33 42 31 00-0001)*

33 42 31 00-0426 Type OS Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0427	EA	3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,355.52	
33 42 31 00-0428	EA	4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,736.83	
33 42 31 00-0429	EA	5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,090.95	
33 42 31 00-0430	EA	6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,417.88	
33 42 31 00-0431	EA	7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,717.65	
33 42 31 00-0432	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,990.21	
33 42 31 00-0433	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	5,429.54	
33 42 31 00-0434	EA	10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	6,330.04	
33 42 31 00-0435	EA	12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,161.35	
33 42 31 00-0436	EA	14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,925.41	
33 42 31 00-0437	EA	16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,661.05	
33 42 31 00-0438	EA	18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,337.62	
33 42 31 00-0439	EA	20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,955.12	

33 42 31 00-0440 Type OL-7 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0441	EA	3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,207.52	
33 42 31 00-0442	EA	4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,563.98	
33 42 31 00-0443	EA	5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,893.26	
33 42 31 00-0444	EA	6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,195.34	
33 42 31 00-0445	EA	7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,469.27	
33 42 31 00-0446	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,717.00	
33 42 31 00-0447	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,113.57	
33 42 31 00-0448	EA	10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,993.05	
33 42 31 00-0449	EA	12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,803.33	
33 42 31 00-0450	EA	14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,545.38	
33 42 31 00-0451	EA	16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,262.84	
33 42 31 00-0452	EA	18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,921.23	
33 42 31 00-0453	EA	20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,520.53	

33 42 31 00-0454 Type OL-10 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0455	EA	3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,992.69	
33 42 31 00-0456	EA	4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,326.46	
33 42 31 00-0457	EA	5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,632.07	
33 42 31 00-0458	EA	6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,911.48	
33 42 31 00-0459	EA	7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,162.72	
33 42 31 00-0460	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,386.79	
33 42 31 00-0461	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,797.61	
33 42 31 00-0462	EA	10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,655.08	
33 42 31 00-0463	EA	12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,445.32	
33 42 31 00-0464	EA	14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,166.34	
33 42 31 00-0465	EA	16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,864.63	
33 42 31 00-0466	EA	18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,504.83	
33 42 31 00-0467	EA	20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,084.98	

33 42 31 00-0468 Type OL-14 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0469	EA	3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,111.99	
33 42 31 00-0470	EA	4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,412.27	
33 42 31 00-0471	EA	5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,685.37	
33 42 31 00-0472	EA	6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,931.30	
33 42 31 00-0473	EA	7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,150.04	
33 42 31 00-0474	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,341.58	
33 42 31 00-0475	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,766.66	
33 42 31 00-0476	EA	10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,594.27	
33 42 31 00-0477	EA	12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,353.64	
33 42 31 00-0478	EA	14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,044.81	
33 42 31 00-0479	EA	16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,718.24	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0480	EA	18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,331.60	
33 42 31 00-0481	EA	20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,885.89	

33 42 31 00-0482 Type OL-21 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0483	EA	3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,383.98	
33 42 31 00-0484	EA	4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,617.68	
33 42 31 00-0485	EA	5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,824.20	
33 42 31 00-0486	EA	6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,003.54	
33 42 31 00-0487	EA	7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,154.72	
33 42 31 00-0488	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,279.68	
33 42 31 00-0489	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,662.01	
33 42 31 00-0490	EA	10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,430.77	
33 42 31 00-0491	EA	12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,131.30	
33 42 31 00-0492	EA	14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,763.61	
33 42 31 00-0493	EA	16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,386.06	
33 42 31 00-0494	EA	18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,948.41	
33 42 31 00-0495	EA	20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,451.71	

33 42 31 00-0496 Type GOL-7 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0497	EA	3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,892.46	
33 42 31 00-0498	EA	4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,285.92	
33 42 31 00-0499	EA	5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,648.19	
33 42 31 00-0500	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,979.24	
33 42 31 00-0501	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,280.07	
33 42 31 00-0502	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,550.67	
33 42 31 00-0503	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,068.37	
33 42 31 00-0504	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,047.89	
33 42 31 00-0505	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,950.71	
33 42 31 00-0506	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,775.83	
33 42 31 00-0507	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,575.03	
33 42 31 00-0508	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,307.77	
33 42 31 00-0509	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,973.09	

33 42 31 00-0510 Type GOL-10 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0511	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,744.47	
33 42 31 00-0512	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,112.11	
33 42 31 00-0513	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,449.52	
33 42 31 00-0514	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,756.70	
33 42 31 00-0515	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,032.69	
33 42 31 00-0516	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,277.45	
33 42 31 00-0517	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,795.16	
33 42 31 00-0518	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,751.79	
33 42 31 00-0519	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,631.71	
33 42 31 00-0520	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,434.92	
33 42 31 00-0521	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,214.25	
33 42 31 00-0522	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,927.12	
33 42 31 00-0523	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,573.53	

33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0525	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,587.06	
33 42 31 00-0526	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,897.52	
33 42 31 00-0527	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,185.22	
33 42 31 00-0528	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,452.08	
33 42 31 00-0529	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,698.13	
33 42 31 00-0530	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,921.41	

33 42 31 00-0531 Type G-2 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0532	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,188.46	
33 42 31 00-0533	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,537.42	
33 42 31 00-0534	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,861.54	
33 42 31 00-0535	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,160.80	
33 42 31 00-0536	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,435.23	
33 42 31 00-0537	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,683.81	
33 42 31 00-0538	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,987.77	
33 42 31 00-0539	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,818.58	
33 42 31 00-0540	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,586.68	
33 42 31 00-0541	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,292.06	
33 42 31 00-0542	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,971.28	
33 42 31 00-0543	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,596.21	
33 42 31 00-0544	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,165.89	

33 42 31 00-0545 Type G-3 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0546	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,720.70	
33 42 31 00-0547	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,026.86	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0548	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,311.21	
33 42 31 00-0549	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,574.74	
33 42 31 00-0550	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,815.49	
33 42 31 00-0551	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,035.42	

33 42 31 00-0552 Type G-4_24 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0553	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,121.64	
33 42 31 00-0554	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,472.77	
33 42 31 00-0555	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,799.04	
33 42 31 00-0556	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,099.48	
33 42 31 00-0557	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,376.06	
33 42 31 00-0558	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,626.82	
33 42 31 00-0559	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,959.26	
33 42 31 00-0560	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,791.65	
33 42 31 00-0561	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,560.34	
33 42 31 00-0562	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,266.30	
33 42 31 00-0563	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,946.00	
33 42 31 00-0564	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,571.40	
33 42 31 00-0565	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,142.53	

33 42 31 00-0566 Type G-4_18 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0567	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,188.46	
33 42 31 00-0568	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,537.42	
33 42 31 00-0569	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,861.54	
33 42 31 00-0570	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,160.80	
33 42 31 00-0571	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,435.23	
33 42 31 00-0572	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,683.81	
33 42 31 00-0573	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,987.77	
33 42 31 00-0574	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,818.58	
33 42 31 00-0575	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,586.68	
33 42 31 00-0576	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,292.06	
33 42 31 00-0577	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,971.28	
33 42 31 00-0578	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,596.21	
33 42 31 00-0579	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,165.89	

33 42 31 00-0580 Type G-5 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0581	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,704.00	
33 42 31 00-0582	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,010.45	
33 42 31 00-0583	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,296.06	
33 42 31 00-0584	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,558.91	
33 42 31 00-0585	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,800.93	
33 42 31 00-0586	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,021.16	

33 42 31 00-0587 Type G-6 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0588	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,737.42	
33 42 31 00-0589	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,043.26	
33 42 31 00-0590	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,327.32	
33 42 31 00-0591	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,589.57	
33 42 31 00-0592	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,830.03	
33 42 31 00-0593	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,049.66	

33 42 31 00-0594 Type GT1 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0595	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,906.82	
33 42 31 00-0596	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,385.42	
33 42 31 00-0597	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,862.64	
33 42 31 00-0598	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,240.86	
33 42 31 00-0599	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,616.69	
33 42 31 00-0600	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,959.26	

33 42 31 00-0601 Type GT2 Concrete Drainage Inlet Structure *(33 42 31 00-0425)*

33 42 31 00-0602	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,524.93	
33 42 31 00-0603	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,045.99	
33 42 31 00-0604	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,528.65	
33 42 31 00-0605	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,973.90	
33 42 31 00-0606	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,380.74	
33 42 31 00-0607	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,750.17	
33 42 31 00-0608	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,695.41	
33 42 31 00-0609	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,920.28	
33 42 31 00-0610	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,051.24	
33 42 31 00-0611	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,089.27	
33 42 31 00-0612	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,090.31	
33 42 31 00-0613	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,009.94	
33 42 31 00-0614	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,848.19	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0615		**Type GT3 Concrete Drainage Inlet Structure** *(33 42 31 00-0425)*		
33 42 31 00-0616	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,890.11	
33 42 31 00-0617	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,369.01	
33 42 31 00-0618	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,814.64	
33 42 31 00-0619	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,226.01	
33 42 31 00-0620	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,602.15	
33 42 31 00-0621	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,945.01	
33 42 31 00-0622		**Type GT4 Concrete Drainage Inlet Structure** *(33 42 31 00-0425)*		
33 42 31 00-0623	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,641.87	
33 42 31 00-0624	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,158.92	
33 42 31 00-0625	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,638.52	
33 42 31 00-0626	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,079.75	
33 42 31 00-0627	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,483.54	
33 42 31 00-0628	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,849.92	
33 42 31 00-0629	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,709.65	
33 42 31 00-0630	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,934.24	
33 42 31 00-0631	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,064.91	
33 42 31 00-0632	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,101.66	
33 42 31 00-0633	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,102.45	
33 42 31 00-0634	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,021.86	
33 42 31 00-0635	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,859.87	
33 42 31 00-0636		**Type GO Concrete Drainage Inlet Structure** *(33 42 31 00-0425)*		
33 42 31 00-0637	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,071.52	
33 42 31 00-0638	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,408.09	
33 42 31 00-0639	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,720.42	
33 42 31 00-0640	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,008.48	
33 42 31 00-0641	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,272.28	
33 42 31 00-0642	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,512.81	
33 42 31 00-0643	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	4,831.00	
33 42 31 00-0644	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,637.10	
33 42 31 00-0645	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,380.82	
33 42 31 00-0646	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,064.07	
33 42 31 00-0647	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,723.27	
33 42 31 00-0648	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,328.24	
33 42 31 00-0649	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,880.95	
33 42 31 00-0650		**Type GDO Concrete Drainage Inlet Structure** *(33 42 31 00-0425)*		
33 42 31 00-0651	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,706.34	
33 42 31 00-0652	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,148.77	
33 42 31 00-0653	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,559.45	
33 42 31 00-0654	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,939.35	
33 42 31 00-0655	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,286.56	
33 42 31 00-0656	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,602.99	
33 42 31 00-0657	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,213.32	
33 42 31 00-0658	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,252.28	
33 42 31 00-0659	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,212.13	
33 42 31 00-0660	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,093.86	
33 42 31 00-0661	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,943.30	
33 42 31 00-0662	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,724.17	
33 42 31 00-0663	EA	20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,436.49	
33 42 31 00-0664		**Catch Basin Frames And Covers** *(33 42 31 00-0001)*		
33 42 31 00-0665		**Cast Iron Frames And Covers** *(33 42 31 00-0664)*		
33 42 31 00-0666	EA	18" Diameter Cast Iron Catch Basin Frame And Cover	406.58	97.83
33 42 31 00-0667	EA	22" Diameter Cast Iron Catch Basin Frame And Cover	500.18	110.55
33 42 31 00-0668	EA	24" Diameter Cast Iron Catch Basin Frame And Cover	554.10	114.46
33 42 31 00-0669	EA	26" Diameter Cast Iron Catch Basin Frame And Cover	619.66	133.05
33 42 31 00-0670	EA	28" Diameter Cast Iron Catch Basin Frame And Cover	710.68	151.64
33 42 31 00-0671	EA	32" Diameter Cast Iron Catch Basin Frame And Cover	1,075.79	158.48
33 42 31 00-0672	EA	16" x 16" Cast Iron Catch Basin Frame And Cover	605.00	120.33
33 42 31 00-0673	EA	18" x 24" Cast Iron Catch Basin Frame And Cover	770.80	138.92
33 42 31 00-0674	EA	20" x 27" Cast Iron Catch Basin Frame And Cover	859.87	144.79
33 42 31 00-0675	EA	23" x 23" Cast Iron Catch Basin Frame And Cover	820.21	144.79
33 42 31 00-0676	EA	24" x 24" Cast Iron Catch Basin Frame And Cover	848.88	150.66
33 42 31 00-0677	EA	26" x 26" Cast Iron Catch Basin Frame And Cover	906.62	156.53
33 42 31 00-0678	EA	24" x 36" Cast Iron Catch Basin Frame And Cover	1,070.85	168.27
33 42 31 00-0679		**Area Yard Drain** *(33 42 31 00-0001)*		

See CSI section 22 14 26 16-0001 for drains.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0680		Ductile Iron Grates *(33 42 31 00-0679)*		
		Note: Not for traffic loading.		
33 42 31 00-0681	EA	8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	152.43	33.50
33 42 31 00-0682	EA	10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	188.34	35.74
33 42 31 00-0683	EA	12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	448.84	44.67
33 42 31 00-0684	EA	15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	536.26	53.60

33 42 33 Stormwater Curbside Drains and Inlets *(33 42)*

33 42 33 00-0001		Curb Inlet Frames And Covers *(33 42 33)*		
33 42 33 00-0002		Cast Iron Curb Inlet Frames And Covers *(33 42 33 00-0001)*		
33 42 33 00-0003	EA	20" x 22" Cast Iron Curb Inlet Frame And Cover	735.93	114.46
33 42 33 00-0004	EA	22" x 24" Cast Iron Curb Inlet Frame And Cover	789.66	133.05
33 42 33 00-0005	EA	24" x 24" Cast Iron Curb Inlet Frame And Cover	815.64	133.05
33 42 33 00-0006	EA	27" x 27" Cast Iron Curb Inlet Frame And Cover	893.86	156.53
33 42 33 00-0007	EA	36" x 24" Cast Iron Curb Inlet Frame And Cover	891.74	167.29

33 42 36 Stormwater Trench Drains *(33 42)*

33 42 36 00-0001		Modular Trench Drains *(33 42 36)*		
		See CSI section 03 31 13 00-0011 for concrete.		
33 42 36 00-0002		Modular Trench Drains *(33 42 36 00-0001)*		
		Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
33 42 36 00-0003		4" Wide, Modular Trench Drains *(33 42 36 00-0002)*		
33 42 36 00-0004		4 Wide, High Density Polyethylene, Shallow Modular Trench Drains *(33 42 36 00-0003)*		
33 42 36 00-0005		4 Wide, High Density Polyethylene, Shallow Modular Trench Drains *(33 42 36 00-0004)*		
33 42 36 00-0006	LF	4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C)	52.81	15.66
		For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*54.20*	
		For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*108.40*	
		For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*173.43*	
		For Type 304 Stainless Steel Top Veneer Frame, Add	*43.36*	
		For Aluminum Veneer Bronze Anodized Frame, Add	*21.68*	
33 42 36 00-0007		Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains *(33 42 36 00-0004)*		
33 42 36 00-0008	EA	Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	38.76	
33 42 36 00-0009	EA	No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	48.55	
33 42 36 00-0010	EA	No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	48.55	
33 42 36 00-0011		6" Wide, Modular Trench Drains *(33 42 36 00-0002)*		
33 42 36 00-0012		6" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0011)*		
33 42 36 00-0013		6" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0012)*		
33 42 36 00-0014	LF	6" Wide, High Density Polyethylene, Modular Trench Drain	124.43	15.66
		For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*54.20*	
		For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*108.40*	
		For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	*173.43*	
		For Type 304 Stainless Steel Top Veneer Frame, Add	*43.36*	
		For Aluminum Veneer Bronze Anodized Frame, Add	*21.68*	
33 42 36 00-0015		Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0012)*		
33 42 36 00-0016	EA	Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains	58.58	
33 42 36 00-0017	EA	No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	68.37	
33 42 36 00-0018	EA	No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	68.37	
33 42 36 00-0019		Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0012)*		
33 42 36 00-0020	EA	Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains	103.56	
33 42 36 00-0021	EA	Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains	103.56	
33 42 36 00-0022	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	482.50	
33 42 36 00-0023	EA	Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains	916.08	
33 42 36 00-0024	EA	Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	108.40	
33 42 36 00-0025		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0011)*		
33 42 36 00-0026		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0025)*		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0027	LF	6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	175.37	15.66
		For Black Acid Resistant Coated Frame, Add	*41.19*	
		For Galvanized Top Frame Assembly, Add	*41.19*	
		For Type 304 Stainless Steel Top Frame Assembly, Add	*151.75*	

33 42 36 00-0028 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0025)*

33 42 36 00-0029	EA	Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	62.92	
33 42 36 00-0030	EA	No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	72.71	
33 42 36 00-0031	EA	No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	72.71	

33 42 36 00-0032 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0025)*

33 42 36 00-0033	EA	Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	103.56	
33 42 36 00-0034	EA	Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	103.56	
33 42 36 00-0035	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	482.50	
33 42 36 00-0036	EA	Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	916.08	
33 42 36 00-0037	EA	Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	108.40	

33 42 36 00-0038 6" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0011)*

33 42 36 00-0039 6" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0038)*

33 42 36 00-0040	LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain	223.07	15.66
		For Black Acid Resistant Coated Frame, Add	*41.19*	
		For Galvanized Top Frame Assembly, Add	*41.19*	
		For Type 304 Stainless Steel Top Frame Assembly, Add	*151.75*	

33 42 36 00-0041 Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0038)*

33 42 36 00-0042	EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	97.60	
33 42 36 00-0043	EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	107.39	
33 42 36 00-0044	EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	107.39	

33 42 36 00-0045 Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0038)*

33 42 36 00-0046	EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	103.56	
33 42 36 00-0047	EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	103.56	
33 42 36 00-0048	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	482.50	
33 42 36 00-0049	EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	916.08	
33 42 36 00-0050	EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	108.40	

33 42 36 00-0051 6" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0011)*

33 42 36 00-0052 6" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0051)*

33 42 36 00-0053	LF	6" Wide, Polymer Concrete, Modular Trench Drain	314.20	

33 42 36 00-0054 Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0051)*

33 42 36 00-0055	EA	Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain	126.38	
33 42 36 00-0056	EA	No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	155.45	
33 42 36 00-0057	EA	No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	54.57	

33 42 36 00-0058 12" Wide, Modular Trench Drains *(33 42 36 00-0002)*

33 42 36 00-0059 12" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0058)*

33 42 36 00-0060 12" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0059)*

33 42 36 00-0061	LF	12" Wide, High Density Polyethylene, Modular Trench Drain	227.32	21.52
		For Acid Resistant Coated Top Frame, Add	*56.37*	
		For Galvanized Welded Frame Assembly, Add	*59.08*	
		For Type 304 Stainless Steel Top Frame, Add	*338.19*	

33 42 36 00-0062 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0059)*

33 42 36 00-0063	EA	End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains	114.97	
33 42 36 00-0064	EA	No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	128.01	
33 42 36 00-0065	EA	No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	128.01	

33 42 36 00-0066 Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0059)*

33 42 36 00-0067	EA	Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains	182.66	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0068	EA	Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains	236.86	
33 42 36 00-0069	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	942.42	
33 42 36 00-0070	EA	Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains	1,809.58	
33 42 36 00-0071	EA	Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains	216.79	

33 42 36 00-0072 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0058)*

33 42 36 00-0073 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0072)*

33 42 36 00-0074	LF	12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	281.52	21.52
		For Acid Resistant Coated Top Frame, Add	*56.37*	
		For Galvanized Welded Frame Assembly, Add	*59.08*	
		For Type 304 Stainless Steel Top Frame, Add	*338.19*	

33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0072)*

33 42 36 00-0076	EA	End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	119.31	
33 42 36 00-0077	EA	No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	132.35	
33 42 36 00-0078	EA	No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	132.35	

33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains *(33 42 36 00-0072)*

33 42 36 00-0080	EA	Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	182.66	
33 42 36 00-0081	EA	Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	236.86	
33 42 36 00-0082	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	942.42	
33 42 36 00-0083	EA	Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,809.58	
33 42 36 00-0084	EA	Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	216.79	

33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0058)*

33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0085)*

33 42 36 00-0087	LF	12" Wide, Vinylester Fiberglass, Modular Trench Drain	389.91	21.52
		For Acid Resistant Coated Top Frame, Add	*56.37*	
		For Galvanized Welded Frame Assembly, Add	*59.08*	
		For Type 304 Stainless Steel Top Frame, Add	*338.19*	

33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0085)*

33 42 36 00-0089	EA	End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	281.90	
33 42 36 00-0090	EA	No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	294.94	
33 42 36 00-0091	EA	No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	294.94	

33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains *(33 42 36 00-0085)*

33 42 36 00-0093	EA	Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	182.66	
33 42 36 00-0094	EA	Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	236.86	
33 42 36 00-0095	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	942.42	
33 42 36 00-0096	EA	Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,809.58	
33 42 36 00-0097	EA	Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	216.79	

33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0058)*

33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0098)*

33 42 36 00-0100	LF	12" Wide, Polymer Concrete, Modular Trench Drain	421.34	

33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains *(33 42 36 00-0098)*

33 42 36 00-0102	EA	Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	213.06	
33 42 36 00-0103	EA	No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	365.53	
33 42 36 00-0104	EA	No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	92.47	

33 42 36 00-0105 23" Wide, Modular Trench Drains *(33 42 36 00-0002)*

33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0105)*

33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains *(33 42 36 00-0106)*

33 42 36 00-0108	LF	23" Wide, High Density Polyethylene, Modular Trench Drain	317.54	29.35
		For Acid Resistant Coated Frame, Add	*84.55*	
		For Galvanized Frame Assembly, Add	*84.55*	
		For Type 304 Stainless Steel Top Frame, Add	*520.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0109		**Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains** *(33 42 36 00-0106)*		
33 42 36 00-0110	EA	End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains	346.97	
33 42 36 00-0111	EA	No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	520.54	
33 42 36 00-0112	EA	No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	520.54	
33 42 36 00-0113		**Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains** *(33 42 36 00-0106)*		
33 42 36 00-0114	EA	Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains	408.72	
33 42 36 00-0115	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	1,856.60	
33 42 36 00-0116	EA	Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains	3,590.92	
33 42 36 00-0117	EA	Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains	433.58	
33 42 36 00-0118		**Modular Trench Drain Grates** *(33 42 36 00-0001)*		
33 42 36 00-0119		**4" Wide, Modular Trench Drain Grates** *(33 42 36 00-0118)*		
33 42 36 00-0120	LF	4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	29.37	2.94
33 42 36 00-0121	LF	4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG)	30.81	2.94
33 42 36 00-0122	LF	4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	25.05	2.94
33 42 36 00-0123	LF	4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS)	64.64	2.94
33 42 36 00-0124	LF	4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG)	25.05	2.94
33 42 36 00-0125	LF	4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	64.64	2.94
33 42 36 00-0126		**6" Wide, Modular Trench Drain Grates** *(33 42 36 00-0118)*		
33 42 36 00-0127	LF	6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	108.95	2.94
33 42 36 00-0128	LF	6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	92.58	2.94
33 42 36 00-0129	LF	6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	97.13	2.94
33 42 36 00-0130	LF	6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	85.10	2.94
33 42 36 00-0131	LF	6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	91.61	2.94
33 42 36 00-0132	LF	6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	92.69	2.94
33 42 36 00-0133	LF	6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	92.69	2.94
33 42 36 00-0134	LF	6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	91.61	2.94
33 42 36 00-0135	LF	6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	80.77	2.94
33 42 36 00-0136	LF	6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	80.77	2.94
33 42 36 00-0137	LF	6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	85.75	2.94
33 42 36 00-0138	LF	6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	85.75	2.94
33 42 36 00-0139	LF	6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	111.12	2.94
33 42 36 00-0140	LF	6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	111.12	2.94
33 42 36 00-0141	LF	6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	202.17	2.94
33 42 36 00-0142	LF	6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	202.17	2.94
33 42 36 00-0143	LF	6" Wide, Stainless Steel Bar, Modular Trench Drain Grate	559.87	2.94
33 42 36 00-0144	LF	6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	76.43	2.94
33 42 36 00-0145	LF	6" Wide, Fiberglass, Modular Trench Drain Grate	163.15	2.94
33 42 36 00-0146		**12" Wide, Modular Trench Drain Grates** *(33 42 36 00-0118)*		
33 42 36 00-0147	LF	12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate	298.05	3.18
33 42 36 00-0148	LF	12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	285.04	3.18
33 42 36 00-0149	LF	12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	248.18	3.18
33 42 36 00-0150	LF	12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	260.65	3.18
33 42 36 00-0151	LF	12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	225.42	3.18
33 42 36 00-0152	LF	12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	439.50	3.18
33 42 36 00-0153	LF	12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	439.50	3.18
33 42 36 00-0154	LF	12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	560.36	3.18
33 42 36 00-0155	LF	12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	560.36	3.18
33 42 36 00-0156	LF	12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	714.83	3.18
33 42 36 00-0157	LF	12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	714.83	3.18
33 42 36 00-0158	LF	12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	678.51	3.18
33 42 36 00-0159	LF	12" Wide, Fiberglass, Modular Trench Drain Grate	321.35	3.18
33 42 36 00-0160		**23" Wide, Modular Trench Drain Grates** *(33 42 36 00-0118)*		
33 42 36 00-0161	LF	23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	469.80	3.43
33 42 36 00-0162	LF	23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	396.09	3.43
33 42 36 00-0163	LF	23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	612.88	3.43
33 42 36 00-0164	LF	23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate	454.63	3.43

33 44 Storm Utility Water Drains *(33 40)*

33 44 36 Oil and Stormwater Separators *(33 44)*

33 44 36 00-0001 Oil/Water Separator *(33 44 36)*

Note: Complete with internal sensors and detectors.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 44 36 00-0002 Coalescing Oil Water Separator *(33 44 36 00-0001)*

Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.

33 44 36 00-0003 Single Wall Steel Coalescing Oil Water Separator *(33 44 36 00-0002)*

33 44 36 00-0004	EA	550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.	12,398.45	
		For Interior Polyurethane Coating, Add	*711.00*	
33 44 36 00-0005	EA	1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank.	15,122.44	
		For Interior Polyurethane Coating, Add	*893.70*	
33 44 36 00-0006	EA	2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	18,071.86	
		For Interior Polyurethane Coating, Add	*1,340.10*	

33 44 36 00-0007 Double Wall Steel Coalescing Oil Water Separator *(33 44 36 00-0002)*

33 44 36 00-0008	EA	550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.	19,141.36	
		For Interior Polyurethane Coating, Add	*711.00*	
33 44 36 00-0009	EA	1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank.	21,986.44	
		For Interior Polyurethane Coating, Add	*893.70*	
33 44 36 00-0010	EA	2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	26,797.72	
		For Interior Polyurethane Coating, Add	*1,340.10*	
33 44 36 00-0011	EA	3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.	31,151.18	
		For Interior Polyurethane Coating, Add	*1,550.70*	
33 44 36 00-0012	EA	5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 5000. 6' diameter x 28'-8" long tank.	41,358.11	
		For Interior Polyurethane Coating, Add	*2,057.80*	

33 44 36 00-0013 Accessories For Coalescing Oil Water Separators *(33 44 36 00-0002)*

33 44 36 00-0014	EA	Single Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP1.	809.37	
33 44 36 00-0015	EA	Two Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP2.	1,094.48	
33 44 36 00-0016	EA	Float Interface Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	636.47	
33 44 36 00-0017	EA	1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	477.53	
33 44 36 00-0018	EA	Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	179.51	
33 44 36 00-0019	EA	550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	2,681.19	
33 44 36 00-0020	EA	3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	5,362.37	
33 44 36 00-0021	EA	5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	8,043.63	
33 44 36 00-0022	EA	550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	504.94	
33 44 36 00-0023	EA	2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	589.71	
33 44 36 00-0024	EA	3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,179.40	
33 44 36 00-0025	EA	5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	2,563.84	
33 44 36 00-0026	EA	30" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	703.62	
33 44 36 00-0027	EA	36" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	910.45	
33 44 36 00-0028	EA	48" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	1,249.72	
33 44 36 00-0029	EA	54" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	2,240.47	
33 44 36 00-0030	EA	66" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	2,868.30	
33 44 36 00-0031	EA	66" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	3,588.84	
33 44 36 00-0032	EA	78" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	4,513.36	
33 44 36 00-0033	EA	550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	883.46	
33 44 36 00-0034	EA	1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,076.84	
33 44 36 00-0035	EA	2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,691.42	
33 44 36 00-0036	EA	550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	842.40	
33 44 36 00-0037	EA	1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,022.54	
33 44 36 00-0038	EA	2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,213.27	
33 44 36 00-0039	EA	18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	71.52	
33 44 36 00-0040	EA	24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	80.80	

33 44 36 00-0041 Oil Skimmers *(33 44 36)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0042		**Oil Skimmers, 12" And 24" Models** *(33 44 36 00-0041)*		
33 44 36 00-0043	EA	Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	4,969.37	560.12
33 44 36 00-0044	EA	Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,205.17	560.12
33 44 36 00-0045	EA	Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	4,991.21	560.12
33 44 36 00-0046	EA	Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,293.59	560.12
33 44 36 00-0047	EA	Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,239.01	560.12
33 44 36 00-0048	EA	Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,438.78	560.12
33 44 36 00-0049	EA	Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,290.31	560.12
33 44 36 00-0050	EA	Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,591.61	560.12
33 44 36 00-0051	EA	Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,596.28	747.00
33 44 36 00-0052	EA	Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,848.45	747.00
33 44 36 00-0053	EA	Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,662.87	747.00
33 44 36 00-0054	EA	Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,025.30	747.00
33 44 36 00-0055	EA	Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,233.80	747.00
33 44 36 00-0056	EA	Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,485.97	747.00
33 44 36 00-0057	EA	Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,287.29	747.00
33 44 36 00-0058	EA	Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,650.81	747.00
33 44 36 00-0059		**Oil Skimmers, Add-Ons** *(33 44 36 00-0041)*		
33 44 36 00-0060	LF	Add For Belt Projection, 12" Width	16.37	
33 44 36 00-0061	LF	Add For Belt Projection, 24" Width	30.57	
33 44 36 00-0062	LF	Add For Spacer Stands, 12" Models	254.90	
33 44 36 00-0063	LF	Add For Spacer Stands, 24" Models	302.93	

33 46 Stormwater Management *(33 40)*

33 46 23 Modular Buried Stormwater Storage Units *(33 46)*

33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) *(33 46 23)*

Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.

33 46 23 00-0002		**85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)** *(33 46 23 00-0001)*		
33 46 23 00-0003	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	399.84	
33 46 23 00-0004	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	366.96	
33 46 23 00-0005	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	344.03	
33 46 23 00-0006	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	321.77	
33 46 23 00-0007	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	180.42	
33 46 23 00-0008	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	158.51	
33 46 23 00-0009	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	146.01	
33 46 23 00-0010	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	133.65	
33 46 23 00-0011		**85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)** *(33 46 23 00-0001)*		
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	233.78	
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	212.92	
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	198.83	
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	185.99	
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	142.21	
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	125.91	
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	116.17	
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	107.45	
33 46 23 00-0020		**90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)** *(33 46 23 00-0001)*		
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	666.95	
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	619.13	
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	581.84	
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	548.16	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	566.01	
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	523.22	
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	490.74	
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500)	461.61	

33 46 23 00-0029 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) *(33 46 23 00-0001)*

33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	414.31	
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	380.72	
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	357.10	
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)	334.18	
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	180.42	
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	155.78	
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	146.01	
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	133.65	

33 46 23 00-0038 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) *(33 46 23 00-0001)*

33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	695.20	
33 46 23 00-0040	EA	>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	644.36	
33 46 23 00-0041	EA	>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	604.09	
33 46 23 00-0042	EA	>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)	569.75	
33 46 23 00-0043	EA	Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	858.63	
33 46 23 00-0044	EA	>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	799.60	
33 46 23 00-0045	EA	>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	751.58	
33 46 23 00-0046	EA	>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500)	709.87	

33 46 23 00-0047 Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers *(33 46 23 00-0001)*

33 46 23 00-0048	EA	Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Colelction Chamber Or End Cap	49.14	
33 46 23 00-0049	EA	Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Colelction Chamber Or End Cap	63.07	
33 46 23 00-0050	EA	Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Colelction Chamber Or End Cap	81.60	
33 46 23 00-0051	EA	Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Colelction Chamber Or End Cap	103.16	
33 46 23 00-0052	EA	12" x 6" Inspection Port Kit Note: (2712AG6IPKIT)	478.52	

33 46 53 Stormwater Leaching Pits *(33 46)*

33 46 53 00-0001 Drainage Wells *(33 46 53)*

Note: Includes augering hole.

33 46 53 00-0002	LF	12" Diameter Drainage Well With Corrugated Metal Liner	27.18	
33 46 53 00-0003	LF	18" Diameter Drainage Well With Corrugated Metal Liner	32.93	
33 46 53 00-0004	LF	24" Diameter Drainage Well With Corrugated Metal Liner	43.58	

33 50 Hydrocarbon Utilities *(33)*

33 52 Hydrocarbon Transmission and Distribution *(33 50)*

33 52 16 Gas Hydrocarbon Piping *(33 52)*

33 52 16 13 Steel Natural Gas Piping *(33 52 16)*

See CSI section 23 05 23 00-0000 for gas valves.

33 52 16 13-0001 Gas Distribution Lines *(33 52 16 13)*

Note: Excludes excavation and backfill.

33 52 16 13-0002 Steel, Schedule 40, Plain End, Coal Tar Enamel And Wrapped *(33 52 16 13-0001)*

33 52 16 13-0003	LF	1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	13.59	2.53
33 52 16 13-0004	LF	3/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	15.50	2.78
33 52 16 13-0005	LF	1" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	17.36	2.86
33 52 16 13-0006	LF	1-1/4" (3.2 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	17.81	2.93

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 13-0007	LF	1-1/2" (3.6 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	18.40	2.96
33 52 16 13-0008	LF	2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	19.54	3.18
33 52 16 13-0009	LF	2-1/2" (6.0 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	26.64	3.82
33 52 16 13-0010	LF	3" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	33.26	4.81
33 52 16 13-0011	LF	4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	44.02	5.81
33 52 16 13-0012	LF	5" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	58.10	6.73
33 52 16 13-0013	LF	6" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	72.77	8.22
33 52 16 13-0014	LF	8" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	104.21	10.58

33 52 16 13-0015 Gas Line Taps *(33 52 16 13-0001)*

Note: Includes material to tap into main and gas valve.

33 52 16 13-0016 Polyethylene, 60 PSI *(33 52 16 13-0015)*

33 52 16 13-0017	EA	2" Polyethylene Hot Tap, With Valve	1,450.51	
33 52 16 13-0018	EA	2-1/2" Polyethylene Hot Tap, With Valve	1,587.19	
33 52 16 13-0019	EA	3" Polyethylene Hot Tap, With Valve	1,678.06	
33 52 16 13-0020	EA	4" Polyethylene Hot Tap, With Valve	2,564.17	
33 52 16 13-0021	EA	6" Polyethylene Hot Tap, With Valve	3,933.82	

33 52 16 13-0022 Steel, Schedule 40 *(33 52 16 13-0015)*

Note: For punch steel service tee.

33 52 16 13-0023	EA	1/2" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	1,865.28	
33 52 16 13-0024	EA	3/4" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	1,896.81	
33 52 16 13-0025	EA	3/4" Iron Pipe Size Weld Base, 3/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	1,943.31	
33 52 16 13-0026	EA	3/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	1,988.06	
33 52 16 13-0027	EA	1" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,019.47	
33 52 16 13-0028	EA	1-1/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Value Steel Service Tee	2,194.52	
33 52 16 13-0029	EA	1-1/4" Iron Pipe Size Weld Base, 1-1/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,252.88	

33 52 16 13-0030 Protective Pipe And Fitting Wrap *(33 52 16 13-0001)*

Note: Includes cleaning and priming pipe.

33 52 16 13-0031 Corrosion Protection Pipe Wrap For Pipe *(33 52 16 13-0030)*

Note: Field applied.

33 52 16 13-0032	LF	1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	3.58	
33 52 16 13-0033	LF	3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	3.74	
33 52 16 13-0034	LF	1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	3.94	
33 52 16 13-0035	LF	1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	4.43	
33 52 16 13-0036	LF	1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	4.71	
33 52 16 13-0037	LF	2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.44	
33 52 16 13-0038	LF	2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	6.72	
33 52 16 13-0039	LF	3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	8.43	
33 52 16 13-0040	LF	4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	10.72	
33 52 16 13-0041	LF	6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	14.37	

33 52 16 13-0042 Corrosion Resistance Wrap And Coat - Fittings *(33 52 16 13-0030)*

Note: Field applied.

33 52 16 13-0043	EA	1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	17.77	
33 52 16 13-0044	EA	3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	17.77	
33 52 16 13-0045	EA	1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	21.82	
33 52 16 13-0046	EA	1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	24.82	
33 52 16 13-0047	EA	1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	24.82	
33 52 16 13-0048	EA	2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	29.39	
33 52 16 13-0049	EA	2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	39.12	
33 52 16 13-0050	EA	3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	55.21	
33 52 16 13-0051	EA	4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	56.08	
33 52 16 13-0052	EA	6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	64.83	

33 52 16 13-0053 Service Fittings *(33 52 16 13-0001)*

33 52 16 13-0054 Brass Fittings *(33 52 16 13-0053)*

33 52 16 13-0055	EA	1/2" X 2" Long Nipples, Threaded Both Ends, Brass	32.16	
33 52 16 13-0056	EA	3/4" X 2" Long Nipples, Threaded Both Ends, Brass	37.25	
33 52 16 13-0057	EA	1" X 2" Long Nipples, Threaded Both Ends, Brass	47.09	
33 52 16 13-0058	EA	1-1/4" X 2" Long Nipples, Threaded Both Ends, Brass	58.20	
33 52 16 13-0059	EA	1-1/2" X 2" Long Nipples, Threaded Both Ends, Brass	65.20	
33 52 16 13-0060	EA	2" X 2" Long Nipples, Threaded Both Ends, Brass	84.35	
33 52 16 13-0061	EA	1/2" 90 Degree Elbow, Brass	28.39	
33 52 16 13-0062	EA	3/4" 90 Degree Elbow, Brass	32.62	
33 52 16 13-0063	EA	1" 90 Degree Elbow, Brass	42.28	
33 52 16 13-0064	EA	1-1/4" 90 Degree Elbow, Brass	54.57	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 13-0065	EA	1-1/2" 90 Degree Elbow, Brass	62.35	
33 52 16 13-0066	EA	2" 90 Degree Elbow, Brass	83.19	
33 52 16 13-0067	EA	1/2" Diameter Chrome Plated Nipple	24.52	
33 52 16 13-0068	EA	3/4" Diameter Chrome Plated Nipple	31.75	
33 52 16 13-0069	EA	1" Diameter Chrome Plated Nipple	41.39	
33 52 16 13-0070	EA	1-1/4" Diameter Chrome Plated Nipple	59.26	
33 52 16 13-0071	EA	1-1/2" Diameter Chrome Plated Nipple	72.34	
33 52 16 13-0072	EA	2" Diameter Chrome Plated Nipple	98.73	

33 52 16 13-0073 Anodless Gas Riser *(33 52 16 13-0053)*

33 52 16 13-0074	EA	3/4" Anodless Gas Riser	77.21	
33 52 16 13-0075	EA	1" Anodless Gas Riser	94.93	
33 52 16 13-0076	EA	1-1/4" Anodless Gas Riser	110.18	
33 52 16 13-0077	EA	1-1/2" Anodless Gas Riser	135.41	
33 52 16 13-0078	EA	2" Anodless Gas Riser	154.31	

33 52 16 13-0079 Brass Service Adapter *(33 52 16 13-0053)*

33 52 16 13-0080	EA	1/2" Brass Service Adapter	65.75	
33 52 16 13-0081	EA	3/4" Brass Service Adapter	72.36	
33 52 16 13-0082	EA	1" Brass Service Adapter	87.16	
33 52 16 13-0083	EA	1-1/4" Brass Service Adapter	108.77	
33 52 16 13-0084	EA	1-1/2" Brass Service Adapter	133.69	
33 52 16 13-0085	EA	2" Brass Service Adapter	164.23	
33 52 16 13-0086	EA	2-1/2" Brass Service Adapter	291.93	
33 52 16 13-0087	EA	3" Brass Service Adapter	357.35	
33 52 16 13-0088	EA	4" Brass Service Adapter	519.22	

33 52 16 23 Medium Density Polyethylene Piping for Natural Gas *(33 52 16)*

33 52 16 23-0001 Medium Density Polyethylene (MDPE) Gas Distribution Piping *(33 52 16 23)*

Note: PE2406/PE2708. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 23-0002	LF	1/2" Diameter, SDR 9, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	3.53	1.60
		For Colors, Add	*0.04*	
33 52 16 23-0003	LF	3/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	3.90	1.71
		For SDR 13.5, Deduct	*-0.08*	
		For Colors, Add	*0.05*	
33 52 16 23-0004	LF	1" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	4.29	1.83
		For SDR 13.5, Deduct	*-0.10*	
		For Colors, Add	*0.07*	
33 52 16 23-0005	LF	1-1/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	4.68	1.94
		For SDR 13.5, Deduct	*-0.12*	
		For Colors, Add	*0.08*	
33 52 16 23-0006	LF	1-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	5.33	2.34
		For SDR 13.5, Deduct	*-0.17*	
		For Colors, Add	*0.11*	
33 52 16 23-0007	LF	2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	5.98	2.54
		For SDR 13.5, Deduct	*-0.23*	
		For SDR 15.5, Deduct	*-0.41*	
		For Colors, Add	*0.15*	
33 52 16 23-0008	LF	2-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	7.42	2.97
		For SDR 13.5, Deduct	*-0.38*	
		For SDR 15.5, Deduct	*-0.69*	
		For Colors, Add	*0.24*	
33 52 16 23-0009	LF	3" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	8.99	3.54
		For SDR 13.5, Deduct	*-0.51*	
		For SDR 15.5, Deduct	*-0.94*	
		For Colors, Add	*0.33*	
33 52 16 23-0010	LF	4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	14.45	4.12
		For SDR 13.5, Deduct	*-0.95*	
		For SDR 15.5, Deduct	*-1.74*	
		For Colors, Add	*0.61*	
33 52 16 23-0011	LF	5" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	18.08	4.12
		For SDR 13.5, Deduct	*-1.31*	
		For SDR 15.5, Deduct	*-2.42*	
		For Colors, Add	*0.85*	
33 52 16 23-0012	LF	6" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	21.82	4.12
		For SDR 13.5, Deduct	*-1.68*	
		For SDR 15.5, Deduct	*-3.09*	
		For Colors, Add	*1.08*	
33 52 16 23-0013	LF	8" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	31.87	5.16
		For SDR 13.5, Deduct	*-2.80*	
		For SDR 15.5, Deduct	*-5.15*	
		For Colors, Add	*1.81*	

33 52 16 26 High Density Polyethylene Piping for Natural Gas *(33 52 16)*

33 52 16 26-0001 High Density Polyethylene (HDPE) Gas Distribution Piping *(33 52 16 26)*

Note: ASTM F2619, ASTM D2513, API 15 LE. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 26-0002	LF	1/2" Diameter, SDR 9 High Density Polyethylene (HDPE) Gas Distribution Pipe	3.58	1.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 26-0003	LF	3/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	3.98	1.71
		For SDR 13.5, Deduct	*-0.09*	
33 52 16 26-0004	LF	1" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	4.36	1.83
		For SDR 13.5, Deduct	*-0.11*	
33 52 16 26-0005	LF	1-1/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	4.78	1.94
		For SDR 13.5, Deduct	*-0.13*	
33 52 16 26-0006	LF	1-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	5.46	2.34
		For SDR 13.5, Deduct	*-0.19*	
33 52 16 26-0007	LF	2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	6.16	2.54
		For SDR 13.5, Deduct	*-0.25*	
		For SDR 15.5, Deduct	*-0.46*	
		For SDR 17, Deduct	*-0.66*	
33 52 16 26-0008	LF	2-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	7.72	2.97
		For SDR 13.5, Deduct	*-0.41*	
		For SDR 15.5, Deduct	*-0.76*	
		For SDR 17, Deduct	*-1.10*	
33 52 16 26-0009	LF	3" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	9.41	3.54
		For SDR 13.5, Deduct	*-0.56*	
		For SDR 15.5, Deduct	*-1.04*	
		For SDR 17, Deduct	*-1.51*	
		For SDR 21, Deduct	*-2.06*	
33 52 16 26-0010	LF	4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	15.22	4.12
		For SDR 13.5, Deduct	*-1.04*	
		For SDR 15.5, Deduct	*-1.92*	
		For SDR 17, Deduct	*-2.78*	
		For SDR 21, Deduct	*-3.81*	
33 52 16 26-0011	LF	6" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	23.18	4.12
		For SDR 13.5, Deduct	*-1.85*	
		For SDR 15.5, Deduct	*-3.40*	
		For SDR 17, Deduct	*-4.94*	
		For SDR 21, Deduct	*-6.76*	
33 52 16 26-0012	LF	8" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	34.13	5.16
		For SDR 13.5, Deduct	*-3.08*	
		For SDR 15.5, Deduct	*-5.66*	
		For SDR 17, Deduct	*-8.22*	
		For SDR 21, Deduct	*-11.25*	

33 53 Hydrocarbon Utility Pressure Regulation *(33 50)*

33 53 16 Gas Hydrocarbon Pressure Regulation *(33 53)*

33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends *(33 53 16)*

33 53 16 00-0002	EA	3/4" Gas Pressure Regulator, Screwed End	171.69	16.22
33 53 16 00-0003	EA	1" Gas Pressure Regulator, Screwed End	175.37	16.22
33 53 16 00-0004	EA	1-1/4" Gas Pressure Regulator, Screwed End	184.21	19.26
33 53 16 00-0005	EA	1-1/2" Gas Pressure Regulator, Screwed End	584.99	22.29
33 53 16 00-0006	EA	2" Gas Pressure Regulator, Screwed End	631.56	34.54
33 53 16 00-0007	EA	3" Gas Pressure Regulator, Screwed End	1,758.59	77.47
33 53 16 00-0008	EA	4" Gas Pressure Regulator, Screwed End	2,438.05	102.67

33 56 Hydrocarbon Storage *(33 50)*

33 56 13 Aboveground Hydrocarbon Storage Tanks *(33 56)*

See CSI section 23 13 23 00-0000 for aboveground storage tanks.

33 56 33 Underground Hydrocarbon Storage *(33 56)*

See CSI section 23 13 13 00-0000 for underground storage tanks.

33 59 Hydrocarbon Utility Metering *(33 50)*

33 59 11 Diaphragm/Bellows Hydrocarbons Meters *(33 59)*

33 59 11 00-0001 Diaphragm Meters *(33 59 11)*

Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.

33 59 11 00-0002	EA	250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded	440.91	63.47
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0003	EA	425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded	844.96	97.07
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0004	EA	425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded	979.70	97.07
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0005	EA	800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded	2,064.00	121.34
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0006	EA	1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded	2,345.79	149.34
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0007	EA	800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	3,026.78	121.34
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 59 11 00-0008	EA	1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	3,381.85	149.34
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0009	EA	1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	4,434.88	158.68
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0010	EA	2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	6,248.62	186.68
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	
33 59 11 00-0011	EA	5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded	9,564.85	308.02
		For Temperature And Pressure Compensation, Add	*8.40*	
		For Pulsers, Add	*26.50*	

33 59 16 Hydrocarbons Turbine Meters *(33 59)*

33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading *(33 59 16)*

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	7,768.47	327.82
33 59 16 00-0003	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	8,105.11	380.70
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	12,498.60	415.00
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	24,215.91	505.21
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	40,289.85	631.51

33 60 Hydronic and Steam Energy Utilities *(33)*

33 61 Hydronic Energy Distribution *(33 60)*

33 61 13 Buried Hydronic Energy Distribution *(33 61)*

33 61 13 00-0001 Glass Lined Steel Piping *(33 61 13)*

33 61 13 00-0002 Glass Lined Steel Pipe *(33 61 13 00-0001)*

Note: 150 PSIG

33 61 13 00-0003	EA	4" X 1' Glass Lined Steel Pipe	1,014.16
33 61 13 00-0004	EA	4" X 2' Glass Lined Steel Pipe	1,119.20
33 61 13 00-0005	EA	4" X 3' Glass Lined Steel Pipe	1,119.20
33 61 13 00-0006	EA	4" X 4' Glass Lined Steel Pipe	1,329.29
33 61 13 00-0007	EA	4" X 5' Glass Lined Steel Pipe	1,887.32
33 61 13 00-0008	EA	4" X 10' Glass Lined Steel Pipe	2,184.94
33 61 13 00-0009	EA	6" X 1' Glass Lined Steel Pipe	850.03
33 61 13 00-0010	EA	6" X 2' Glass Lined Steel Pipe	1,834.80
33 61 13 00-0011	EA	6" X 3' Glass Lined Steel Pipe	1,834.80
33 61 13 00-0012	EA	6" X 4' Glass Lined Steel Pipe	2,077.71
33 61 13 00-0013	EA	6" X 5' Glass Lined Steel Pipe	3,349.16
33 61 13 00-0014	EA	6" X 10' Glass Lined Steel Pipe	3,876.31
33 61 13 00-0015	EA	8" X 1' Glass Lined Steel Pipe	2,092.91
33 61 13 00-0016	EA	8" X 2' Glass Lined Steel Pipe	2,519.64
33 61 13 00-0017	EA	8" X 3' Glass Lined Steel Pipe	2,519.64
33 61 13 00-0018	EA	8" X 4' Glass Lined Steel Pipe	2,897.06
33 61 13 00-0019	EA	8" X 5' Glass Lined Steel Pipe	3,922.26
33 61 13 00-0020	EA	8" X 10' Glass Lined Steel Pipe	4,457.26
33 61 13 00-0021	EA	12" X 1' Glass Lined Steel Pipe	5,671.65
33 61 13 00-0022	EA	12" X 2' Glass Lined Steel Pipe	5,671.65
33 61 13 00-0023	EA	12" X 3' Glass Lined Steel Pipe	5,877.36
33 61 13 00-0024	EA	12" X 4' Glass Lined Steel Pipe	6,267.86
33 61 13 00-0025	EA	12" X 5' Glass Lined Steel Pipe	7,032.57
33 61 13 00-0026	EA	12" X 10' Glass Lined Steel Pipe	8,685.77
33 61 13 00-0027	EA	16" X 10' Glass Lined Steel Pipe	11,831.24

33 61 13 00-0028 90 Degree Elbow, Glass Lined Steel Fittings *(33 61 13 00-0001)*

Note: 150 PSIG

33 61 13 00-0029	EA	4" 90 Degree Elbow, Glass Lined Steel Fittings	1,294.56
33 61 13 00-0030	EA	6" 90 Degree Elbow, Glass Lined Steel Fittings	2,098.35
33 61 13 00-0031	EA	8" 90 Degree Elbow, Glass Lined Steel Fittings	3,799.28
33 61 13 00-0032	EA	10" 90 Degree Elbow, Glass Lined Steel Fittings	6,669.00
33 61 13 00-0033	EA	12" 90 Degree Elbow, Glass Lined Steel Fittings	9,919.39
33 61 13 00-0034	EA	14" 90 Degree Elbow, Glass Lined Steel Fittings	11,632.72
33 61 13 00-0035	EA	16" 90 Degree Elbow, Glass Lined Steel Fittings	13,345.70

33 61 13 00-0036 45 Degree Elbow, Glass Lined Steel Fittings *(33 61 13 00-0001)*

Note: 150 PSIG

33 61 13 00-0037	EA	4" 45 Degree Elbow, Glass Lined Steel Fittings	1,270.49
33 61 13 00-0038	EA	6" 45 Degree Elbow, Glass Lined Steel Fittings	2,098.35
33 61 13 00-0039	EA	8" 45 Degree Elbow, Glass Lined Steel Fittings	3,965.59
33 61 13 00-0040	EA	10" 45 Degree Elbow, Glass Lined Steel Fittings	10,949.46
33 61 13 00-0041	EA	12" 45 Degree Elbow, Glass Lined Steel Fittings	9,919.39
33 61 13 00-0042	EA	14" 45 Degree Elbow, Glass Lined Steel Fittings	11,632.72
33 61 13 00-0043	EA	16" 45 Degree Elbow, Glass Lined Steel Fittings	13,345.70

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0044		**Tee, Glass Lined Steel Fittings** *(33 61 13 00-0001)* Note: 150 PSIG		
33 61 13 00-0045	EA	4" Tee, Glass Lined Steel Fittings	2,015.08	
33 61 13 00-0046	EA	6" Tee, Glass Lined Steel Fittings	3,418.55	
33 61 13 00-0047	EA	8" Tee, Glass Lined Steel Fittings	5,013.24	
33 61 13 00-0048	EA	10" Tee, Glass Lined Steel Fittings	8,580.31	
33 61 13 00-0049	EA	12" Tee, Glass Lined Steel Fittings	12,182.87	
33 61 13 00-0050	EA	14" Tee, Glass Lined Steel Fittings	14,355.54	
33 61 13 00-0051	EA	16" Tee, Glass Lined Steel Fittings	16,479.56	
33 61 13 00-0052		**Prefabricated/Preinsulated Pipe** *(33 61 13)* Note: Includes coupling per full length of pipe. Excludes excavation and backfill. See CSI section 23 01 20 91-0041 for purging of existing system.		
33 61 13 00-0053		**Preinsulated Schedule 40 Black Steel Pipe** *(33 61 13 00-0052)* Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0054		**Standard Black Steel Carrier Pipe** *(33 61 13 00-0053)* Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0055	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	51.21	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.56*	
		For Schedule 80 Pipe, Add	*5.64*	
33 61 13 00-0056	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	55.85	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.62*	
		For Schedule 80 Pipe, Add	*6.20*	
33 61 13 00-0057	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	61.30	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.70*	
		For Schedule 80 Pipe, Add	*6.99*	
33 61 13 00-0058	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	65.35	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.75*	
		For Schedule 80 Pipe, Add	*7.50*	
33 61 13 00-0059	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	68.76	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.78*	
		For Schedule 80 Pipe, Add	*7.84*	
33 61 13 00-0060	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	79.15	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.85*	
		For Schedule 80 Pipe, Add	*8.52*	
33 61 13 00-0061	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	90.62	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.92*	
		For Schedule 80 Pipe, Add	*9.20*	
33 61 13 00-0062	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	114.75	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.16*	
		For Schedule 80 Pipe, Add	*11.59*	
33 61 13 00-0063	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	143.70	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.48*	
		For Schedule 80 Pipe, Add	*14.82*	
33 61 13 00-0064	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	167.58	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.72*	
		For Schedule 80 Pipe, Add	*17.21*	
33 61 13 00-0065	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	223.74	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.50*	
		For Schedule 80 Pipe, Add	*25.05*	
33 61 13 00-0066	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	282.50	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.31*	
		For Schedule 80 Pipe, Add	*33.06*	
33 61 13 00-0067	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	350.43	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.12*	
		For Schedule 80 Pipe, Add	*41.23*	
33 61 13 00-0068		**Standard Black Steel Carrier Pipe** *(33 61 13 00-0053)* Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0069	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	54.03	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.62*	
		For Schedule 80 Pipe, Add	*6.20*	
33 61 13 00-0070	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	58.95	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.68*	
		For Schedule 80 Pipe, Add	*6.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0071	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	64.79	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.77*	
		For Schedule 80 Pipe, Add	*7.68*	
33 61 13 00-0072	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	69.09	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.82*	
		For Schedule 80 Pipe, Add	*8.25*	
33 61 13 00-0073	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	72.68	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.86*	
		For Schedule 80 Pipe, Add	*8.62*	
33 61 13 00-0074	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pip With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	83.41	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.94*	
		For Schedule 80 Pipe, Add	*9.37*	
33 61 13 00-0075	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	95.22	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.01*	
		For Schedule 80 Pipe, Add	*10.12*	
33 61 13 00-0076	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	120.55	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.27*	
		For Schedule 80 Pipe, Add	*12.75*	
33 61 13 00-0077	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	151.11	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.63*	
		For Schedule 80 Pipe, Add	*16.31*	
33 61 13 00-0078	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	176.18	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.89*	
		For Schedule 80 Pipe, Add	*18.93*	
33 61 13 00-0079	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	236.26	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.76*	
		For Schedule 80 Pipe, Add	*27.55*	
33 61 13 00-0080	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	299.03	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.64*	
		For Schedule 80 Pipe, Add	*36.36*	
33 61 13 00-0081	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	371.05	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.54*	
		For Schedule 80 Pipe, Add	*45.36*	

33 61 13 00-0082 Standard Black Steel Carrier Pipe *(33 61 13 00-0053)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0083	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	55.44	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.65*	
		For Schedule 80 Pipe, Add	*6.49*	
33 61 13 00-0084	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	60.50	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.71*	
		For Schedule 80 Pipe, Add	*7.13*	
33 61 13 00-0085	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	66.54	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.80*	
		For Schedule 80 Pipe, Add	*8.03*	
33 61 13 00-0086	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	70.97	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.86*	
		For Schedule 80 Pipe, Add	*8.62*	
33 61 13 00-0087	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	74.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.90*	
		For Schedule 80 Pipe, Add	*9.01*	
33 61 13 00-0088	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	85.54	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.98*	
		For Schedule 80 Pipe, Add	*9.80*	
33 61 13 00-0089	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	97.52	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.06*	
		For Schedule 80 Pipe, Add	*10.58*	
33 61 13 00-0090	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	123.44	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.33*	
		For Schedule 80 Pipe, Add	*13.32*	
33 61 13 00-0091	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	154.82	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.70*	
		For Schedule 80 Pipe, Add	*17.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0092	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	180.49	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.98*	
		For Schedule 80 Pipe, Add	*19.79*	
33 61 13 00-0093	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	242.52	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.88*	
		For Schedule 80 Pipe, Add	*28.80*	
33 61 13 00-0094	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	307.29	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.80*	
		For Schedule 80 Pipe, Add	*38.01*	
33 61 13 00-0095	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	381.36	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.74*	
		For Schedule 80 Pipe, Add	*47.42*	

33 61 13 00-0096 Standard Black Steel Carrier Pipe *(33 61 13 00-0053)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0097	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	57.56	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.69*	
		For Schedule 80 Pipe, Add	*6.91*	
33 61 13 00-0098	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	62.83	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.76*	
		For Schedule 80 Pipe, Add	*7.60*	
33 61 13 00-0099	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	69.16	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.86*	
		For Schedule 80 Pipe, Add	*8.56*	
33 61 13 00-0100	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	73.78	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.92*	
		For Schedule 80 Pipe, Add	*9.18*	
33 61 13 00-0101	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	77.58	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.96*	
		For Schedule 80 Pipe, Add	*9.60*	
33 61 13 00-0102	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	88.73	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.04*	
		For Schedule 80 Pipe, Add	*10.44*	
33 61 13 00-0103	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	100.97	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.13*	
		For Schedule 80 Pipe, Add	*11.27*	
33 61 13 00-0104	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	127.79	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.42*	
		For Schedule 80 Pipe, Add	*14.19*	
33 61 13 00-0105	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	160.38	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.82*	
		For Schedule 80 Pipe, Add	*18.16*	
33 61 13 00-0106	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	186.94	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.11*	
		For Schedule 80 Pipe, Add	*21.08*	
33 61 13 00-0107	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	251.92	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.07*	
		For Schedule 80 Pipe, Add	*30.68*	
33 61 13 00-0108	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	319.69	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.05*	
		For Schedule 80 Pipe, Add	*40.49*	
33 61 13 00-0109	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	396.82	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.05*	
		For Schedule 80 Pipe, Add	*50.51*	

33 61 13 00-0110 Preinsulated Black Steel Fittings *(33 61 13 00-0052)*

Note: No excavation or backfill.

33 61 13 00-0111 Elbows *(33 61 13 00-0110)*

33 61 13 00-0112 Elbows *(33 61 13 00-0111)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0113	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	394.45	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0114	EA	1" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	409.35	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.93*	
33 61 13 00-0115	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	470.77	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.75*	
33 61 13 00-0116	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	531.09	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.36*	
33 61 13 00-0117	EA	2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	627.93	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.67*	
33 61 13 00-0118	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	756.31	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.97*	
33 61 13 00-0119	EA	3" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	879.00	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.20*	
33 61 13 00-0120	EA	4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,025.85	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.73*	
33 61 13 00-0121	EA	5" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,213.59	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.80*	
33 61 13 00-0122	EA	6" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,333.37	
		For High Density Polyethylene (HDPE) Jacket, Add	*15.68*	
33 61 13 00-0123	EA	8" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,866.77	
		For High Density Polyethylene (HDPE) Jacket, Add	*22.66*	
33 61 13 00-0124	EA	10" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,548.39	
		For High Density Polyethylene (HDPE) Jacket, Add	*28.97*	
33 61 13 00-0125	EA	12" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,237.60	
		For High Density Polyethylene (HDPE) Jacket, Add	*38.34*	

33 61 13 00-0126 Elbows *(33 61 13 00-0111)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0127	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	416.17	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.23*	
33 61 13 00-0128	EA	1" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	431.59	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.37*	
33 61 13 00-0129	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	496.07	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.25*	
33 61 13 00-0130	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	558.69	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.91*	
33 61 13 00-0131	EA	2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	656.69	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.24*	
33 61 13 00-0132	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	786.21	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.57*	
33 61 13 00-0133	EA	3" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	913.50	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.89*	
33 61 13 00-0134	EA	4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,066.10	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.54*	
33 61 13 00-0135	EA	5" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,265.34	
		For High Density Polyethylene (HDPE) Jacket, Add	*14.84*	
33 61 13 00-0136	EA	6" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,392.16	
		For High Density Polyethylene (HDPE) Jacket, Add	*16.85*	
33 61 13 00-0137	EA	8" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,951.75	
		For High Density Polyethylene (HDPE) Jacket, Add	*24.36*	
33 61 13 00-0138	EA	10" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,657.02	
		For High Density Polyethylene (HDPE) Jacket, Add	*31.14*	
33 61 13 00-0139	EA	12" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,381.37	
		For High Density Polyethylene (HDPE) Jacket, Add	*41.21*	

33 61 13 00-0140 Elbows *(33 61 13 00-0111)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0141	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	437.90	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.66*	
33 61 13 00-0142	EA	1" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	453.82	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.82*	
33 61 13 00-0143	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	521.37	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.76*	
33 61 13 00-0144	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	586.29	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.47*	
33 61 13 00-0145	EA	2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	685.44	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.82*	
33 61 13 00-0146	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	816.12	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.17*	
33 61 13 00-0147	EA	3" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	948.01	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.58*	
33 61 13 00-0148	EA	4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,106.36	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.35*	
33 61 13 00-0149	EA	5" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,317.10	
		For High Density Polyethylene (HDPE) Jacket, Add	*15.87*	
33 61 13 00-0150	EA	6" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,450.95	
		For High Density Polyethylene (HDPE) Jacket, Add	*18.03*	
33 61 13 00-0151	EA	8" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,036.74	
		For High Density Polyethylene (HDPE) Jacket, Add	*26.06*	
33 61 13 00-0152	EA	10" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,765.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*33.31*	
33 61 13 00-0153	EA	12" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,525.14	
		For High Density Polyethylene (HDPE) Jacket, Add	*44.09*	

33 61 13 00-0154 Elbows *(33 61 13 00-0111)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0155	EA	3/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	459.62	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.10*	
33 61 13 00-0156	EA	1" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	476.06	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.26*	
33 61 13 00-0157	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	546.68	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.27*	
33 61 13 00-0158	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	613.90	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.02*	
33 61 13 00-0159	EA	2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	714.19	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.39*	
33 61 13 00-0160	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	846.02	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.77*	
33 61 13 00-0161	EA	3" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	982.51	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.27*	
33 61 13 00-0162	EA	4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,146.61	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.15*	
33 61 13 00-0163	EA	5" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,368.86	
		For High Density Polyethylene (HDPE) Jacket, Add	*16.91*	
33 61 13 00-0164	EA	6" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,509.73	
		For High Density Polyethylene (HDPE) Jacket, Add	*19.20*	
33 61 13 00-0165	EA	8" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,121.72	
		For High Density Polyethylene (HDPE) Jacket, Add	*27.76*	
33 61 13 00-0166	EA	10" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,874.27	
		For High Density Polyethylene (HDPE) Jacket, Add	*35.48*	
33 61 13 00-0167	EA	12" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,668.91	
		For High Density Polyethylene (HDPE) Jacket, Add	*46.96*	

33 61 13 00-0168 Tees *(33 61 13 00-0110)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0169		**Tees** *(33 61 13 00-0168)*		
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0170	EA	3/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	587.25	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.60*	
33 61 13 00-0171	EA	1" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	609.43	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.81*	
33 61 13 00-0172	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	700.91	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.02*	
33 61 13 00-0173	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	790.90	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.93*	
33 61 13 00-0174	EA	2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	935.70	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.39*	
33 61 13 00-0175	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,127.83	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.84*	
33 61 13 00-0176	EA	3" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,311.61	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.66*	
33 61 13 00-0177	EA	4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,530.71	
		For High Density Polyethylene (HDPE) Jacket, Add	*15.94*	
33 61 13 00-0178	EA	5" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,812.79	
		For High Density Polyethylene (HDPE) Jacket, Add	*20.50*	
33 61 13 00-0179	EA	6" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,989.07	
		For High Density Polyethylene (HDPE) Jacket, Add	*23.28*	
33 61 13 00-0180	EA	8" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,781.80	
		For High Density Polyethylene (HDPE) Jacket, Add	*33.65*	
33 61 13 00-0181	EA	10" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,802.80	
		For High Density Polyethylene (HDPE) Jacket, Add	*43.02*	
33 61 13 00-0182	EA	12" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,827.65	
		For High Density Polyethylene (HDPE) Jacket, Add	*56.93*	
33 61 13 00-0183		**Tees** *(33 61 13 00-0168)*		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0184	EA	3/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	619.52	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.25*	
33 61 13 00-0185	EA	1" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	642.45	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.47*	
33 61 13 00-0186	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	738.49	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.77*	
33 61 13 00-0187	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	831.89	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.75*	
33 61 13 00-0188	EA	2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	978.40	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.24*	
33 61 13 00-0189	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,172.23	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.73*	
33 61 13 00-0190	EA	3" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,362.85	
		For High Density Polyethylene (HDPE) Jacket, Add	*14.69*	
33 61 13 00-0191	EA	4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,590.49	
		For High Density Polyethylene (HDPE) Jacket, Add	*17.14*	
33 61 13 00-0192	EA	5" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,889.65	
		For High Density Polyethylene (HDPE) Jacket, Add	*22.03*	
33 61 13 00-0193	EA	6" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,076.36	
		For High Density Polyethylene (HDPE) Jacket, Add	*25.02*	
33 61 13 00-0194	EA	8" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,908.00	
		For High Density Polyethylene (HDPE) Jacket, Add	*36.18*	
33 61 13 00-0195	EA	10" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,964.11	
		For High Density Polyethylene (HDPE) Jacket, Add	*46.24*	
33 61 13 00-0196	EA	12" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,041.15	
		For High Density Polyethylene (HDPE) Jacket, Add	*61.20*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0197		**Tees** *(33 61 13 00-0168)*		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0198	EA	3/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	651.78	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.89*	
33 61 13 00-0199	EA	1" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	675.47	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.13*	
33 61 13 00-0200	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	776.06	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.52*	
33 61 13 00-0201	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	872.88	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.57*	
33 61 13 00-0202	EA	2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,021.10	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.09*	
33 61 13 00-0203	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,216.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.62*	
33 61 13 00-0204	EA	3" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,414.09	
		For High Density Polyethylene (HDPE) Jacket, Add	*15.71*	
33 61 13 00-0205	EA	4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,650.27	
		For High Density Polyethylene (HDPE) Jacket, Add	*18.33*	
33 61 13 00-0206	EA	5" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,966.51	
		For High Density Polyethylene (HDPE) Jacket, Add	*23.57*	
33 61 13 00-0207	EA	6" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,163.66	
		For High Density Polyethylene (HDPE) Jacket, Add	*26.77*	
33 61 13 00-0208	EA	8" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,034.21	
		For High Density Polyethylene (HDPE) Jacket, Add	*38.70*	
33 61 13 00-0209	EA	10" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,125.42	
		For High Density Polyethylene (HDPE) Jacket, Add	*49.47*	
33 61 13 00-0210	EA	12" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,254.65	
		For High Density Polyethylene (HDPE) Jacket, Add	*65.47*	
33 61 13 00-0211		**Tees** *(33 61 13 00-0168)*		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0212	EA	3/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	684.04	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.54*	
33 61 13 00-0213	EA	1" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	708.49	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.79*	
33 61 13 00-0214	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	813.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.27*	
33 61 13 00-0215	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	913.87	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.39*	
33 61 13 00-0216	EA	2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,063.80	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.95*	
33 61 13 00-0217	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,261.05	
		For High Density Polyethylene (HDPE) Jacket, Add	*14.51*	
33 61 13 00-0218	EA	3" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,465.32	
		For High Density Polyethylene (HDPE) Jacket, Add	*16.74*	
33 61 13 00-0219	EA	4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,710.05	
		For High Density Polyethylene (HDPE) Jacket, Add	*19.53*	
33 61 13 00-0220	EA	5" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,043.37	
		For High Density Polyethylene (HDPE) Jacket, Add	*25.11*	
33 61 13 00-0221	EA	6" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,250.96	
		For High Density Polyethylene (HDPE) Jacket, Add	*28.52*	
33 61 13 00-0222	EA	8" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,160.41	
		For High Density Polyethylene (HDPE) Jacket, Add	*41.23*	
33 61 13 00-0223	EA	10" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,286.73	
		For High Density Polyethylene (HDPE) Jacket, Add	*52.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0224	EA	12" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,468.14	
		For High Density Polyethylene (HDPE) Jacket, Add	*69.74*	

33 61 13 00-0225 Reducers *(33 61 13 00-0110)*

33 61 13 00-0226 Reducers *(33 61 13 00-0225)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0227	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	334.74	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.81*	
33 61 13 00-0228	EA	1" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	347.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.92*	
33 61 13 00-0229	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	400.08	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.60*	
33 61 13 00-0230	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	452.14	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.11*	
33 61 13 00-0231	EA	2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	538.20	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.36*	
33 61 13 00-0232	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	660.80	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.62*	
33 61 13 00-0233	EA	3" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	762.27	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.64*	
33 61 13 00-0234	EA	4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	885.47	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.91*	
33 61 13 00-0235	EA	5" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,044.08	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.46*	
33 61 13 00-0236	EA	6" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,145.36	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.01*	
33 61 13 00-0237	EA	8" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,600.94	
		For High Density Polyethylene (HDPE) Jacket, Add	*18.81*	
33 61 13 00-0238	EA	10" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,192.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*24.04*	
33 61 13 00-0239	EA	12" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,777.65	
		For High Density Polyethylene (HDPE) Jacket, Add	*31.82*	

33 61 13 00-0240 Reducers *(33 61 13 00-0225)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0241	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	352.78	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.17*	
33 61 13 00-0242	EA	1" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	366.10	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.29*	
33 61 13 00-0243	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	421.08	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.02*	
33 61 13 00-0244	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	475.05	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.57*	
33 61 13 00-0245	EA	2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	562.06	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.84*	
33 61 13 00-0246	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	685.62	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.12*	
33 61 13 00-0247	EA	3" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	790.91	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.21*	
33 61 13 00-0248	EA	4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	918.88	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.58*	
33 61 13 00-0249	EA	5" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,087.04	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.31*	
33 61 13 00-0250	EA	6" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,194.15	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.99*	
33 61 13 00-0251	EA	8" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,671.48	
		For High Density Polyethylene (HDPE) Jacket, Add	*20.22*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0252	EA	10" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,282.80	
		For High Density Polyethylene (HDPE) Jacket, Add	*25.85*	
33 61 13 00-0253	EA	12" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,896.97	
		For High Density Polyethylene (HDPE) Jacket, Add	*34.21*	

33 61 13 00-0254 Reducers *(33 61 13 00-0225)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0255	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	370.81	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.53*	
33 61 13 00-0256	EA	1" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	384.55	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.66*	
33 61 13 00-0257	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	442.09	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.44*	
33 61 13 00-0258	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	497.96	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.03*	
33 61 13 00-0259	EA	2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	585.93	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.32*	
33 61 13 00-0260	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	710.44	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.61*	
33 61 13 00-0261	EA	3" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	819.55	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.78*	
33 61 13 00-0262	EA	4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	952.29	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.25*	
33 61 13 00-0263	EA	5" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,130.00	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.17*	
33 61 13 00-0264	EA	6" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,242.94	
		For High Density Polyethylene (HDPE) Jacket, Add	*14.96*	
33 61 13 00-0265	EA	8" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,742.01	
		For High Density Polyethylene (HDPE) Jacket, Add	*21.63*	
33 61 13 00-0266	EA	10" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,372.95	
		For High Density Polyethylene (HDPE) Jacket, Add	*27.65*	
33 61 13 00-0267	EA	12" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,016.30	
		For High Density Polyethylene (HDPE) Jacket, Add	*36.59*	

33 61 13 00-0268 Reducers *(33 61 13 00-0225)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0269	EA	3/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	388.84	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.89*	
33 61 13 00-0270	EA	1" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	403.01	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.03*	
33 61 13 00-0271	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	463.09	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.86*	
33 61 13 00-0272	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	520.87	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.48*	
33 61 13 00-0273	EA	2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	609.79	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.80*	
33 61 13 00-0274	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	735.26	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.11*	
33 61 13 00-0275	EA	3" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	848.18	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.36*	
33 61 13 00-0276	EA	4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	985.71	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.91*	
33 61 13 00-0277	EA	5" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,172.96	
		For High Density Polyethylene (HDPE) Jacket, Add	*14.03*	
33 61 13 00-0278	EA	6" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,291.73	
		For High Density Polyethylene (HDPE) Jacket, Add	*15.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0279	EA	8" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,812.54	
		For High Density Polyethylene (HDPE) Jacket, Add	*23.04*	
33 61 13 00-0280	EA	10" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,463.11	
		For High Density Polyethylene (HDPE) Jacket, Add	*29.45*	
33 61 13 00-0281	EA	12" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,135.63	
		For High Density Polyethylene (HDPE) Jacket, Add	*38.98*	

33 61 13 00-0282 Preinsulated Type K Copper Pipe *(33 61 13 00-0052)*

Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.

33 61 13 00-0283 Type K Copper Carrier Pipe *(33 61 13 00-0282)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0284	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	43.61	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.41*	
33 61 13 00-0285	LF	1" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	47.49	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.45*	
33 61 13 00-0286	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	51.88	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.51*	
33 61 13 00-0287	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	55.22	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.54*	
33 61 13 00-0288	LF	2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	58.18	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.57*	
33 61 13 00-0289	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	67.70	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.62*	
33 61 13 00-0290	LF	3" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	78.27	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.67*	
33 61 13 00-0291	LF	4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	99.21	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.84*	
33 61 13 00-0292	LF	5" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	123.79	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.07*	
33 61 13 00-0293	LF	6" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	144.47	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.25*	
33 61 13 00-0294	LF	8" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	189.96	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.82*	
33 61 13 00-0295	LF	10" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	237.85	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.40*	
33 61 13 00-0296	LF	12" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	294.72	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.99*	

33 61 13 00-0297 Type K Copper Carrier Pipe *(33 61 13 00-0282)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0298	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	45.65	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.45*	
33 61 13 00-0299	LF	1" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	49.73	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.49*	
33 61 13 00-0300	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	54.41	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.56*	
33 61 13 00-0301	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	57.94	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.60*	
33 61 13 00-0302	LF	2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	61.02	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.63*	
33 61 13 00-0303	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	70.78	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.68*	
33 61 13 00-0304	LF	3" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	81.61	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.73*	
33 61 13 00-0305	LF	4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	103.41	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.92*	
33 61 13 00-0306	LF	5" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	129.16	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.18*	

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33 61 13 00-0307	LF	6" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	150.70	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.37*	
33 61 13 00-0308	LF	8" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	199.04	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.00*	
33 61 13 00-0309	LF	10" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	249.82	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.64*	
33 61 13 00-0310	LF	12" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	309.66	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.29*	

33 61 13 00-0311 Type K Copper Carrier Pipe *(33 61 13 00-0282)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0312	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	46.68	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.47*	
33 61 13 00-0313	LF	1" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	50.86	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.52*	
33 61 13 00-0314	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	55.68	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.58*	
33 61 13 00-0315	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	59.30	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.63*	
33 61 13 00-0316	LF	2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	62.44	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.65*	
33 61 13 00-0317	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	72.33	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.71*	
33 61 13 00-0318	LF	3" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	83.28	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.77*	
33 61 13 00-0319	LF	4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	105.51	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.97*	
33 61 13 00-0320	LF	5" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	131.85	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.24*	
33 61 13 00-0321	LF	6" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	153.82	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.43*	
33 61 13 00-0322	LF	8" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	203.58	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.09*	
33 61 13 00-0323	LF	10" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	255.81	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.76*	
33 61 13 00-0324	LF	12" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	317.13	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.44*	

33 61 13 00-0325 Type K Copper Carrier Pipe *(33 61 13 00-0282)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0326	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	48.21	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.50*	
33 61 13 00-0327	LF	1" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	52.54	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.55*	
33 61 13 00-0328	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	57.57	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.62*	
33 61 13 00-0329	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	61.33	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.67*	
33 61 13 00-0330	LF	2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	64.57	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.70*	
33 61 13 00-0331	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	74.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.76*	
33 61 13 00-0332	LF	3" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	85.78	
		For High Density Polyethylene (HDPE) Jacket, Add	*0.82*	
33 61 13 00-0333	LF	4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	108.66	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.03*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0334	LF	5" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	135.88	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.32*	
33 61 13 00-0335	LF	6" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	158.50	
		For High Density Polyethylene (HDPE) Jacket, Add	*1.53*	
33 61 13 00-0336	LF	8" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	210.39	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.22*	
33 61 13 00-0337	LF	10" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	264.80	
		For High Density Polyethylene (HDPE) Jacket, Add	*2.94*	
33 61 13 00-0338	LF	12" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	328.34	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.66*	

33 61 13 00-0339 Preinsulated Copper Fittings *(33 61 13 00-0052)*

33 61 13 00-0340 Elbows *(33 61 13 00-0339)*

33 61 13 00-0341 Elbows *(33 61 13 00-0340)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0342	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	324.07	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.66*	
33 61 13 00-0343	EA	1" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	336.60	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.77*	
33 61 13 00-0344	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	387.33	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.43*	
33 61 13 00-0345	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	437.78	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.92*	
33 61 13 00-0346	EA	2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	520.99	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.17*	
33 61 13 00-0347	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	631.59	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.41*	
33 61 13 00-0348	EA	3" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	734.29	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.40*	
33 61 13 00-0349	EA	4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	856.96	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.63*	
33 61 13 00-0350	EA	5" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,010.19	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.10*	
33 61 13 00-0351	EA	6" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,108.27	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.61*	
33 61 13 00-0352	EA	8" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,549.28	
		For High Density Polyethylene (HDPE) Jacket, Add	*18.23*	
33 61 13 00-0353	EA	10" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,121.32	
		For High Density Polyethylene (HDPE) Jacket, Add	*23.30*	
33 61 13 00-0354	EA	12" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,690.13	
		For High Density Polyethylene (HDPE) Jacket, Add	*30.83*	

33 61 13 00-0355 Elbows *(33 61 13 00-0340)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0356	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	341.54	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.01*	
33 61 13 00-0357	EA	1" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	354.48	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.13*	
33 61 13 00-0358	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	407.68	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.83*	
33 61 13 00-0359	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	459.98	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.36*	
33 61 13 00-0360	EA	2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	544.11	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.63*	
33 61 13 00-0361	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	655.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.89*	

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33 61 13 00-0362	EA	3" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	762.04	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.96*	
33 61 13 00-0363	EA	4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	889.33	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.28*	
33 61 13 00-0364	EA	5" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,051.82	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.93*	
33 61 13 00-0365	EA	6" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,155.55	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.55*	
33 61 13 00-0366	EA	8" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,617.63	
		For High Density Polyethylene (HDPE) Jacket, Add	*19.59*	
33 61 13 00-0367	EA	10" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,208.68	
		For High Density Polyethylene (HDPE) Jacket, Add	*25.04*	
33 61 13 00-0368	EA	12" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,805.76	
		For High Density Polyethylene (HDPE) Jacket, Add	*33.15*	

33 61 13 00-0369 Elbows *(33 61 13 00-0340)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0370	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	359.01	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.36*	
33 61 13 00-0371	EA	1" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	372.37	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.48*	
33 61 13 00-0372	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	428.03	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.24*	
33 61 13 00-0373	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	482.18	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.81*	
33 61 13 00-0374	EA	2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	567.24	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.09*	
33 61 13 00-0375	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	679.69	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.38*	
33 61 13 00-0376	EA	3" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	789.79	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.51*	
33 61 13 00-0377	EA	4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	921.71	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.93*	
33 61 13 00-0378	EA	5" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,093.44	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.77*	
33 61 13 00-0379	EA	6" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,203.06	
		For High Density Polyethylene (HDPE) Jacket, Add	*14.50*	
33 61 13 00-0380	EA	8" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,685.84	
		For High Density Polyethylene (HDPE) Jacket, Add	*20.96*	
33 61 13 00-0381	EA	10" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,295.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*26.79*	
33 61 13 00-0382	EA	12" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,921.67	
		For High Density Polyethylene (HDPE) Jacket, Add	*35.46*	

33 61 13 00-0383 Elbows *(33 61 13 00-0340)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0384	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	376.49	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.71*	
33 61 13 00-0385	EA	1" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	390.25	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.84*	
33 61 13 00-0386	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	448.38	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.65*	
33 61 13 00-0387	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	504.38	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.25*	
33 61 13 00-0388	EA	2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	590.37	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.55*	

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33 61 13 00-0389	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	703.74	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.86*	
33 61 13 00-0390	EA	3" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	817.54	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.07*	
33 61 13 00-0391	EA	4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	954.08	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.58*	
33 61 13 00-0392	EA	5" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,135.07	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.60*	
33 61 13 00-0393	EA	6" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,250.34	
		For High Density Polyethylene (HDPE) Jacket, Add	*15.44*	
33 61 13 00-0394	EA	8" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,754.19	
		For High Density Polyethylene (HDPE) Jacket, Add	*22.33*	
33 61 13 00-0395	EA	10" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,383.01	
		For High Density Polyethylene (HDPE) Jacket, Add	*28.54*	
33 61 13 00-0396	EA	12" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,037.30	
		For High Density Polyethylene (HDPE) Jacket, Add	*37.77*	

33 61 13 00-0397 Tees *(33 61 13 00-0339)*

33 61 13 00-0398 Tees *(33 61 13 00-0397)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0399	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	482.57	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.92*	
33 61 13 00-0400	EA	1" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	501.18	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.08*	
33 61 13 00-0401	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	576.78	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.06*	
33 61 13 00-0402	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	652.05	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.79*	
33 61 13 00-0403	EA	2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	776.45	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.16*	
33 61 13 00-0404	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	942.06	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.52*	
33 61 13 00-0405	EA	3" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,095.91	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.99*	
33 61 13 00-0406	EA	4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,279.01	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.82*	
33 61 13 00-0407	EA	5" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,509.42	
		For High Density Polyethylene (HDPE) Jacket, Add	*16.48*	
33 61 13 00-0408	EA	6" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,653.53	
		For High Density Polyethylene (HDPE) Jacket, Add	*18.72*	
33 61 13 00-0409	EA	8" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,308.92	
		For High Density Polyethylene (HDPE) Jacket, Add	*27.07*	
33 61 13 00-0410	EA	10" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,166.11	
		For High Density Polyethylene (HDPE) Jacket, Add	*34.60*	
33 61 13 00-0411	EA	12" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,012.07	
		For High Density Polyethylene (HDPE) Jacket, Add	*45.79*	

33 61 13 00-0412 Tees *(33 61 13 00-0397)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0413	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	508.51	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.44*	
33 61 13 00-0414	EA	1" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	527.73	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.61*	
33 61 13 00-0415	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	607.00	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.66*	
33 61 13 00-0416	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	685.02	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.45*	

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33 61 13 00-0417	EA	2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	810.80	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.84*	
33 61 13 00-0418	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	977.77	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.24*	
33 61 13 00-0419	EA	3" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,137.12	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.81*	
33 61 13 00-0420	EA	4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,327.09	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.78*	
33 61 13 00-0421	EA	5" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,571.24	
		For High Density Polyethylene (HDPE) Jacket, Add	*17.72*	
33 61 13 00-0422	EA	6" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,723.74	
		For High Density Polyethylene (HDPE) Jacket, Add	*20.13*	
33 61 13 00-0423	EA	8" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,410.42	
		For High Density Polyethylene (HDPE) Jacket, Add	*29.10*	
33 61 13 00-0424	EA	10" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,295.85	
		For High Density Polyethylene (HDPE) Jacket, Add	*37.19*	
33 61 13 00-0425	EA	12" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,183.78	
		For High Density Polyethylene (HDPE) Jacket, Add	*49.22*	

33 61 13 00-0426 Tees *(33 61 13 00-0397)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0427	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	534.46	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.96*	
33 61 13 00-0428	EA	1" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	554.29	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.14*	
33 61 13 00-0429	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	637.22	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.27*	
33 61 13 00-0430	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	717.98	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.11*	
33 61 13 00-0431	EA	2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	845.14	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.53*	
33 61 13 00-0432	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,013.49	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.95*	
33 61 13 00-0433	EA	3" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,178.33	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.64*	
33 61 13 00-0434	EA	4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,375.16	
		For High Density Polyethylene (HDPE) Jacket, Add	*14.74*	
33 61 13 00-0435	EA	5" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,633.05	
		For High Density Polyethylene (HDPE) Jacket, Add	*18.96*	
33 61 13 00-0436	EA	6" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,794.29	
		For High Density Polyethylene (HDPE) Jacket, Add	*21.53*	
33 61 13 00-0437	EA	8" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,511.01	
		For High Density Polyethylene (HDPE) Jacket, Add	*31.13*	
33 61 13 00-0438	EA	10" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,423.37	
		For High Density Polyethylene (HDPE) Jacket, Add	*39.79*	
33 61 13 00-0439	EA	12" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,358.03	
		For High Density Polyethylene (HDPE) Jacket, Add	*52.66*	

33 61 13 00-0440 Tees *(33 61 13 00-0397)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0441	EA	3/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	560.41	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.48*	
33 61 13 00-0442	EA	1" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	580.85	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.68*	
33 61 13 00-0443	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	667.44	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0444	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	750.95	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.77*	
33 61 13 00-0445	EA	2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	879.48	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.22*	
33 61 13 00-0446	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,049.20	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.67*	
33 61 13 00-0447	EA	3" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,219.54	
		For High Density Polyethylene (HDPE) Jacket, Add	*13.46*	
33 61 13 00-0448	EA	4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,423.24	
		For High Density Polyethylene (HDPE) Jacket, Add	*15.71*	
33 61 13 00-0449	EA	5" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,694.86	
		For High Density Polyethylene (HDPE) Jacket, Add	*20.19*	
33 61 13 00-0450	EA	6" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,864.50	
		For High Density Polyethylene (HDPE) Jacket, Add	*22.94*	
33 61 13 00-0451	EA	8" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,612.51	
		For High Density Polyethylene (HDPE) Jacket, Add	*33.16*	
33 61 13 00-0452	EA	10" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,553.11	
		For High Density Polyethylene (HDPE) Jacket, Add	*42.38*	
33 61 13 00-0453	EA	12" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	4,529.73	
		For High Density Polyethylene (HDPE) Jacket, Add	*56.09*	

33 61 13 00-0454 Reducers *(33 61 13 00-0339)*

33 61 13 00-0455 Reducers *(33 61 13 00-0454)*

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0456	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	275.38	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.87*	
33 61 13 00-0457	EA	1" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	286.22	
		For High Density Polyethylene (HDPE) Jacket, Add	*3.96*	
33 61 13 00-0458	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	329.61	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.50*	
33 61 13 00-0459	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	373.21	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.91*	
33 61 13 00-0460	EA	2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	447.22	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.12*	
33 61 13 00-0461	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	552.98	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.32*	
33 61 13 00-0462	EA	3" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	637.89	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.14*	
33 61 13 00-0463	EA	4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	740.86	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.17*	
33 61 13 00-0464	EA	5" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	870.50	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.21*	
33 61 13 00-0465	EA	6" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	953.48	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.46*	
33 61 13 00-0466	EA	8" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,330.65	
		For High Density Polyethylene (HDPE) Jacket, Add	*15.13*	
33 61 13 00-0467	EA	10" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,828.14	
		For High Density Polyethylene (HDPE) Jacket, Add	*19.34*	
33 61 13 00-0468	EA	12" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,311.44	
		For High Density Polyethylene (HDPE) Jacket, Add	*25.59*	

33 61 13 00-0469 Reducers *(33 61 13 00-0454)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0470	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	289.89	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.16*	
33 61 13 00-0471	EA	1" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	301.07	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.26*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0472	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	346.50	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.84*	
33 61 13 00-0473	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	391.64	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.28*	
33 61 13 00-0474	EA	2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	466.42	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.50*	
33 61 13 00-0475	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	572.94	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.72*	
33 61 13 00-0476	EA	3" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	660.92	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.60*	
33 61 13 00-0477	EA	4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	767.73	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.70*	
33 61 13 00-0478	EA	5" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	905.05	
		For High Density Polyethylene (HDPE) Jacket, Add	*9.90*	
33 61 13 00-0479	EA	6" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	992.72	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.25*	
33 61 13 00-0480	EA	8" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,387.38	
		For High Density Polyethylene (HDPE) Jacket, Add	*16.26*	
33 61 13 00-0481	EA	10" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,900.65	
		For High Density Polyethylene (HDPE) Jacket, Add	*20.79*	
33 61 13 00-0482	EA	12" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,407.41	
		For High Density Polyethylene (HDPE) Jacket, Add	*27.51*	

33 61 13 00-0483 Reducers *(33 61 13 00-0454)*

Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0484	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	304.39	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.45*	
33 61 13 00-0485	EA	1" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	315.91	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.55*	
33 61 13 00-0486	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	363.39	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.18*	
33 61 13 00-0487	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	410.07	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.65*	
33 61 13 00-0488	EA	2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	485.61	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.89*	
33 61 13 00-0489	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	592.90	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.12*	
33 61 13 00-0490	EA	3" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	683.95	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.06*	
33 61 13 00-0491	EA	4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	794.60	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.24*	
33 61 13 00-0492	EA	5" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	939.60	
		For High Density Polyethylene (HDPE) Jacket, Add	*10.60*	
33 61 13 00-0493	EA	6" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,032.14	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.03*	
33 61 13 00-0494	EA	8" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,443.77	
		For High Density Polyethylene (HDPE) Jacket, Add	*17.40*	
33 61 13 00-0495	EA	10" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,972.84	
		For High Density Polyethylene (HDPE) Jacket, Add	*22.24*	
33 61 13 00-0496	EA	12" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,503.61	
		For High Density Polyethylene (HDPE) Jacket, Add	*29.43*	

33 61 13 00-0497 Reducers *(33 61 13 00-0454)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0498	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	318.89	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0499	EA	1" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	330.75	
		For High Density Polyethylene (HDPE) Jacket, Add	*4.85*	
33 61 13 00-0500	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	380.28	
		For High Density Polyethylene (HDPE) Jacket, Add	*5.52*	
33 61 13 00-0501	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	428.49	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.02*	
33 61 13 00-0502	EA	2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	504.80	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.27*	
33 61 13 00-0503	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	612.86	
		For High Density Polyethylene (HDPE) Jacket, Add	*6.52*	
33 61 13 00-0504	EA	3" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	706.99	
		For High Density Polyethylene (HDPE) Jacket, Add	*7.52*	
33 61 13 00-0505	EA	4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	821.48	
		For High Density Polyethylene (HDPE) Jacket, Add	*8.78*	
33 61 13 00-0506	EA	5" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	974.15	
		For High Density Polyethylene (HDPE) Jacket, Add	*11.29*	
33 61 13 00-0507	EA	6" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,071.38	
		For High Density Polyethylene (HDPE) Jacket, Add	*12.82*	
33 61 13 00-0508	EA	8" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,500.50	
		For High Density Polyethylene (HDPE) Jacket, Add	*18.53*	
33 61 13 00-0509	EA	10" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,045.35	
		For High Density Polyethylene (HDPE) Jacket, Add	*23.69*	
33 61 13 00-0510	EA	12" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,599.58	
		For High Density Polyethylene (HDPE) Jacket, Add	*31.35*	

33 61 13 00-0511 Preinsulated Ductile Iron Carrier Pipe *(33 61 13 00-0052)*

Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.

33 61 13 00-0512 Ductile Iron Carrier Pipe *(33 61 13 00-0511)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0513	LF	4" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	142.74
33 61 13 00-0514	LF	6" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	208.69
33 61 13 00-0515	LF	8" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	280.40
33 61 13 00-0516	LF	10" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	355.26
33 61 13 00-0517	LF	12" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	440.89

33 61 13 00-0518 Ductile Iron Carrier Pipe *(33 61 13 00-0511)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0519	LF	4" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	151.48
33 61 13 00-0520	LF	6" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	221.67
33 61 13 00-0521	LF	8" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	299.30
33 61 13 00-0522	LF	10" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	380.21
33 61 13 00-0523	LF	12" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	472.01
33 61 13 00-0524	LF	14" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	516.00
33 61 13 00-0525	LF	16" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	580.41
33 61 13 00-0526	LF	18" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	652.13
33 61 13 00-0527	LF	20" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	716.92
33 61 13 00-0528	LF	24" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	846.81

33 61 13 00-0529 Preinsulated Ductile Iron Fittings *(33 61 13 00-0052)*

33 61 13 00-0530 Elbows *(33 61 13 00-0529)*

33 61 13 00-0531 Elbows *(33 61 13 00-0530)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0532	EA	4" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,263.13	
33 61 13 00-0533	EA	6" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,679.88	
33 61 13 00-0534	EA	8" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,367.70	
33 61 13 00-0535	EA	10" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,188.68	
33 61 13 00-0536	EA	12" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,085.05	

33 61 13 00-0537 Elbows *(33 61 13 00-0530)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0538	EA	4" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,371.13	
33 61 13 00-0539	EA	6" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,837.60	
33 61 13 00-0540	EA	8" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,595.71	
33 61 13 00-0541	EA	10" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,480.12	
33 61 13 00-0542	EA	12" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,470.77	
33 61 13 00-0543	EA	14" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,436.74	
33 61 13 00-0544	EA	16" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	6,424.10	
33 61 13 00-0545	EA	18" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	8,017.36	
33 61 13 00-0546	EA	20" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	10,172.93	
33 61 13 00-0547	EA	24" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	13,187.80	

33 61 13 00-0548 Tees *(33 61 13 00-0529)*

33 61 13 00-0549 Tees *(33 61 13 00-0548)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0550	EA	4" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,883.08	
33 61 13 00-0551	EA	6" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,503.64	
33 61 13 00-0552	EA	8" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,525.69	
33 61 13 00-0553	EA	10" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,753.64	
33 61 13 00-0554	EA	12" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	6,086.11	

33 61 13 00-0555 Tees *(33 61 13 00-0548)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0556	EA	4" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,043.46	
33 61 13 00-0557	EA	6" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,737.85	
33 61 13 00-0558	EA	8" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,864.28	
33 61 13 00-0559	EA	10" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,186.42	
33 61 13 00-0560	EA	12" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	6,658.91	
33 61 13 00-0561	EA	14" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	7,943.65	
33 61 13 00-0562	EA	16" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	9,389.24	
33 61 13 00-0563	EA	18" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	11,719.53	
33 61 13 00-0564	EA	20" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	14,878.21	
33 61 13 00-0565	EA	24" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	19,283.24	

33 61 13 00-0566 Reducers *(33 61 13 00-0529)*

33 61 13 00-0567 Reducers *(33 61 13 00-0566)*

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0568	EA	4" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,082.42	
33 61 13 00-0569	EA	6" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,432.96	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0570	EA	8" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,016.72	
33 61 13 00-0571	EA	10" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,724.08	
33 61 13 00-0572	EA	12" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,481.03	

33 61 13 00-0573 Reducers *(33 61 13 00-0566)*

Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0574	EA	4" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,172.06	
33 61 13 00-0575	EA	6" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,563.86	
33 61 13 00-0576	EA	8" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,205.96	
33 61 13 00-0577	EA	10" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,965.97	
33 61 13 00-0578	EA	12" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,801.18	
33 61 13 00-0579	EA	14" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,529.38	
33 61 13 00-0580	EA	16" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,346.60	
33 61 13 00-0581	EA	18" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	6,630.97	
33 61 13 00-0582	EA	20" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	8,472.40	
33 61 13 00-0583	EA	24" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	11,009.53	

33 61 13 00-0584 Tempered Water Piping Pre-Insulated *(33 61 13 00-0052)*

33 61 13 00-0585 Fiberglass Reinforced Polyester (FRP) Carrier And Casing, 1" Polyurethane Insulation *(33 61 13 00-0584)*

33 61 13 00-0586	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	68.99	20.34
33 61 13 00-0587	LF	6" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	84.26	22.30
33 61 13 00-0588	LF	8" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	114.03	24.66
33 61 13 00-0589	LF	10" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	153.37	30.83
33 61 13 00-0590	LF	12" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	195.53	38.02

33 61 13 00-0591 Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing, 1" Polyurethane Insulation *(33 61 13 00-0584)*

33 61 13 00-0592	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	44.57	22.30
33 61 13 00-0593	LF	6" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	48.22	22.30
33 61 13 00-0594	LF	8" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	51.61	22.30
33 61 13 00-0595	LF	10" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	62.04	26.36
33 61 13 00-0596	LF	12" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	75.60	33.46

33 61 13 00-0597 Polyvinyl Chloride (PVC) Carrier And Casing, 1" Polyurethane Insulation *(33 61 13 00-0584)*

33 61 13 00-0598	LF	4" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	44.57	22.30
33 61 13 00-0599	LF	6" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	48.22	22.30
33 61 13 00-0600	LF	8" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	51.61	22.30
33 61 13 00-0601	LF	10" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	62.04	26.36
33 61 13 00-0602	LF	12" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	75.60	33.46

33 70 Electrical Utilities *(33)*

33 71 Electrical Utility Transmission and Distribution *(33 70)*

33 71 19 Electrical Underground Ducts, Ductbanks and Manholes *(33 71)*

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes *(33 71 19)*

33 71 19 13-0001 Electrical Handholes And Pull Boxes *(33 71 19 13)*

33 71 19 13-0002 Electrical Pull Boxes *(33 71 19 13-0001)*

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 13-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,633.71	
33 71 19 13-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	1,944.38	
33 71 19 13-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,240.20	
33 71 19 13-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete	3,424.32	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete	3,639.34	
33 71 19 13-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,907.38	
33 71 19 13-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete	4,490.85	

33 71 19 13-0010 Electrical Pull Boxes (CALTRANS) *(33 71 19 13-0001)*

33 71 19 13-0011	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box	113.19	
33 71 19 13-0012	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	40.48	
33 71 19 13-0013	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	64.39	
33 71 19 13-0014	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	125.72	
33 71 19 13-0015	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	189.31	
	For Galvanized Steel Cover, Add		*30.79*	
33 71 19 13-0016	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	54.60	
33 71 19 13-0017	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	54.60	
33 71 19 13-0018	EA	Body, CALTRANS 5 Precast Concrete Pull Box	163.59	
33 71 19 13-0019	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	52.52	
33 71 19 13-0020	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	76.43	
33 71 19 13-0021	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	248.01	
	For Galvanized Steel Cover, Add		*56.44*	
33 71 19 13-0022	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box	73.42	
33 71 19 13-0023	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	69.28	
33 71 19 13-0024	EA	Body, CALTRANS 6 Precast Concrete Pull Box	175.63	
33 71 19 13-0025	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	68.70	
33 71 19 13-0026	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	92.61	
33 71 19 13-0027	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	336.82	
	For Galvanized Steel Cover, Add		*79.02*	
33 71 19 13-0028	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box	85.46	
33 71 19 13-0029	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	80.94	
33 71 19 13-0030	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	108.04	
33 71 19 13-0031	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	223.44	
33 71 19 13-0032	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	296.18	
33 71 19 13-0033	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	100.51	
33 71 19 13-0034	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	92.99	
33 71 19 13-0035	EA	Body, CALTRANS 5-T Precast Concrete Pull Box	296.04	
33 71 19 13-0036	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	424.11	
33 71 19 13-0037	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box	118.57	
33 71 19 13-0038	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	115.56	
33 71 19 13-0039	EA	Body, CALTRANS 6-T Precast Concrete Pull Box	405.91	
33 71 19 13-0040	EA	Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	589.68	
33 71 19 13-0041	EA	12" Extension, CALTRANS 6-T Precast Concrete Pull Box	193.83	
33 71 19 13-0042	EA	Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	153.19	

33 71 19 13-0043 Electrical Property Line Boxes *(33 71 19 13)*

33 71 19 13-0044	EA	3'-6" x 2'-9" x 2' Deep Property Line Box	3,078.37	358.33
33 71 19 13-0045	EA	4'-6" x 3'-6" x 4' Deep Property Line Box	3,587.26	371.60
33 71 19 13-0046	EA	6' x 4' x 5' Deep Property Line Box	3,962.75	451.23
33 71 19 13-0047	EA	11'-6" x 4'-6" x 6' Deep Property Line Box	6,050.63	663.57

33 71 19 13-0048 Manhole Accessories *(33 71 19 13)*

33 71 19 13-0049	EA	6" Precast Grade Ring Riser Casting	438.39	
33 71 19 13-0050	EA	12" Precast Grade Ring Riser Casting	474.77	
33 71 19 13-0051	EA	36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D)	1,731.55	
33 71 19 13-0052	EA	42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1)	2,256.08	
33 71 19 13-0053	EA	Cast Iron Adjusting Ring (NEENAH #R-1979)	746.65	
33 71 19 13-0054	EA	Cast Iron Frame And Cover (NEENAH #R-1640-B)	943.12	

33 71 19 23 Trenched Electrical Underground Duct and Ductbanks *(33 71 19)*

33 71 19 23-0001 Underground Electrical Concrete Markers *(33 71 19 23)*

33 71 19 23-0002	EA	36" x 6" x 6", Underground Electric Concrete Marker	319.08	

END OF SECTION 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 Transportation

34 40 Transportation Signaling and Control Equipment *(34)*

34 41 Roadway Signaling and Control Equipment *(34 40)*

34 41 13 Traffic Signals *(34 41)*

34 41 13 00-0001 Traffic Signals *(34 41 13)*

34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern	5,193.24	722.42

34 41 13 00-0003 Traffic Detector Induction Loop *(34 41 13)*

34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	394.59	
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	492.19	
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	554.25	
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	482.76	
34 41 13 00-0008	EA	6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	837.70	
34 41 13 00-0009	EA	6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,031.27	
34 41 13 00-0010	EA	6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,095.54	
34 41 13 00-0011	EA	6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,367.71	
34 41 13 00-0012	EA	6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,462.04	
34 41 13 00-0013	EA	6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,575.80	
34 41 13 00-0014	EA	6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,691.01	
34 41 13 00-0015	LF	In Pavement, Lead Wire For Traffic Signal Detector Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.	6.92	
34 41 13 00-0016	LF	In Earthwork, Lead Wire For Traffic Signal Detector Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.	3.15	
34 41 13 00-0017	EA	2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222)	191.97	
34 41 13 00-0018	EA	4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100)	520.75	
34 41 13 00-0019	EA	2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100)	327.84	

34 41 13 00-0020 Overhead Traffic Signals *(34 41 13)*

34 41 13 00-0021	EA	Vehicle Signal Face, LED, 1 - 12" Section	453.64	153.51
34 41 13 00-0022	EA	Vehicle Signal Face, LED, 2 - 12" Sections	722.32	216.73
34 41 13 00-0023	EA	Vehicle Signal Face, LED, 3 - 12" Sections	994.28	264.89
34 41 13 00-0024	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank	950.73	264.89
34 41 13 00-0025	EA	Vehicle Signal Face, LED, 4 - 12" Sections	1,243.19	294.99
34 41 13 00-0026	EA	Vehicle Signal Face, LED, 5 - 12" Sections	1,468.02	313.05
34 41 13 00-0027	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Cluster	1,552.21	313.05
34 41 13 00-0028	EA	Vehicle Signal Face, LED, 1 - 8" Section	431.87	153.51
34 41 13 00-0029	EA	Vehicle Signal Face, LED, 2 - 8" Sections	678.77	216.73
34 41 13 00-0030	EA	Vehicle Signal Face, LED, 3 - 8" Sections	888.32	264.89
34 41 13 00-0031	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section	942.02	264.89
34 41 13 00-0032	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections	1,150.29	294.99
34 41 13 00-0033	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section	1,119.80	294.99
34 41 13 00-0034	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections	1,308.34	313.05
34 41 13 00-0035	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster	1,376.57	313.05
34 41 13 00-0036	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed	1,894.27	264.89
34 41 13 00-0037	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed	2,452.37	294.99
34 41 13 00-0038	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed	3,166.39	313.05
34 41 13 00-0039	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed	3,420.42	313.05
34 41 13 00-0040	EA	Bracket Signal Mounting Assembly	423.70	120.40
34 41 13 00-0041	EA	Mast Arm Signal Mounting Assembly	763.22	240.80
34 41 13 00-0042	EA	Top Pole Signal Mounting Assembly	270.60	90.30
34 41 13 00-0043	EA	Pedestrian Signal Head	753.13	180.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0044	EA	Pedestrian Signal Insert	454.95	90.30
34 41 13 00-0045	EA	Audible Pedestrian Signal	1,024.29	
34 41 13 00-0046	EA	Junction Box, Pole Or Post Mounted	396.81	
34 41 13 00-0047	EA	Pedestrian Push Button	373.77	
34 41 13 00-0048	EA	Illuminated Sign, Bracket Mounted, Symbolic	2,790.01	
34 41 13 00-0049	EA	Illuminated Sign, Mast Arm Mounted, Symbolic	2,924.63	
34 41 13 00-0050	EA	Sign, Message, "BLANK OUT", Bracket Mounted	3,052.81	
34 41 13 00-0051	EA	Sign, Message, "BLANK OUT", Mast Arm Mounted	3,254.81	
34 41 13 00-0052	EA	Sign, Fiber Optic, Bracket Mounted	3,450.90	
34 41 13 00-0053	EA	Sign, Fiber Optic, Mast Arm Mounted	3,657.21	
34 41 13 00-0054	EA	16' Pedestal With Base Plate And Cover	1,211.32	162.72
34 41 13 00-0055	EA	30' Type 15TS Signal And Lighting Standard Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.	5,229.07	
34 41 13 00-0056	EA	35' Type 21TS Signal And Lighting Standard Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.	6,030.78	
34 41 13 00-0057	EA	17' Type 18-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.	2,993.52	
34 41 13 00-0058	EA	17' Type 18-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.	3,303.06	
34 41 13 00-0059	EA	17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.	3,421.72	
34 41 13 00-0060	EA	17' Type 23-3-100 Signal And Lighting Standard Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	3,421.72	
34 41 13 00-0061	EA	17' Type 23-4-100 Signal And Lighting Standard Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	3,484.01	
34 41 13 00-0062	EA	17' Type 27-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	3,795.50	
34 41 13 00-0063	EA	17' Type 27-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	3,867.12	
34 41 13 00-0064	EA	17' Type 28-5-100 Signal And Lighting Standard Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.	4,013.99	
34 41 13 00-0065	EA	17' Type 60-5-100 Signal And Lighting Standard Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.	4,245.30	
34 41 13 00-0066	EA	18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.	3,175.61	
34 41 13 00-0067	EA	30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.	5,554.09	
34 41 13 00-0068	EA	30' Type 19-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.	6,204.12	
34 41 13 00-0069	EA	30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.	6,453.30	
34 41 13 00-0070	EA	30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.	6,453.30	
34 41 13 00-0071	EA	30' Type 26-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.	7,238.21	
34 41 13 00-0072	EA	30' Type 26-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.	7,539.11	
34 41 13 00-0073	EA	30' Type 29-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.	7,855.02	
34 41 13 00-0074	EA	30' Type 61-5-100 Signal And Lighting Standard Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.	8,352.62	
34 41 13 00-0075	EA	35' Type 17A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.	6,450.71	
34 41 13 00-0076	EA	35' Type 19A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.	7,209.08	
34 41 13 00-0077	EA	35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.	7,499.80	
34 41 13 00-0078	EA	35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.	7,499.80	
34 41 13 00-0079	EA	35' Type 26A-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	8,415.53	
34 41 13 00-0080	EA	35' Type 26A-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	8,766.56	
34 41 13 00-0081	EA	35' Type 29A-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.	9,135.14	
34 41 13 00-0082	EA	35' Type 61A-5-100 Signal And Lighting Standard Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.	9,715.66	
34 41 13 00-0083	EA	15' Steel Straight Mast Arm, MONOTUBE	2,270.42	
34 41 13 00-0084	EA	20' Steel Straight Mast Arm, MONOTUBE	2,387.51	
34 41 13 00-0085	EA	25' Steel Straight Mast Arm, MONOTUBE	2,545.81	
34 41 13 00-0086	EA	30' Steel Straight Mast Arm, MONOTUBE	3,364.93	
34 41 13 00-0087	EA	35' Steel Straight Mast Arm, MONOTUBE	4,019.75	
34 41 13 00-0088	EA	40' Steel Straight Mast Arm, MONOTUBE	4,305.93	
34 41 13 00-0089	EA	45' Steel Straight Mast Arm, MONOTUBE	4,747.66	
34 41 13 00-0090	EA	4' Steel Curved Luminaire Mast Arm	789.24	
34 41 13 00-0091	EA	6' Steel Curved Luminaire Mast Arm	1,021.59	
		For High Rise Arm, Add	*77.39*	
34 41 13 00-0092	EA	8' Steel Curved Luminaire Mast Arm	1,278.03	
34 41 13 00-0093	EA	10' Steel Curved Luminaire Mast Arm	1,791.66	
		For High Rise Arm, Add	*113.91*	
34 41 13 00-0094	EA	12' Steel Curved Luminaire Mast Arm	1,961.16	
		For High Rise Arm, Add	*134.34*	
34 41 13 00-0095	EA	15' Steel Curved Luminaire Mast Arm	2,031.04	
		For High Rise Arm, Add	*149.82*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0096	EA	15' Tubular Aluminum Post	843.65	
34 41 13 00-0097	EA	17' Tubular Aluminum Post	903.25	
34 41 13 00-0098	EA	20' Tubular Aluminum Post	1,008.97	
34 41 13 00-0099	EA	CUT-OFF POLE AND CAPPED	159.04	
34 41 13 00-0100	EA	PAINT EXISTING SL/TS CONTROLLER COMPLETE	46.98	
34 41 13 00-0101	EA	PAINT EXISTING TS POST COMPLETE	225.46	
34 41 13 00-0102	EA	1 Channel Loop Detector Amplifier	1,144.93	
34 41 13 00-0103	EA	4 Channel Loop Detector Amplifier	2,130.37	
34 41 13 00-0104	EA	FLASHING BEACON WITH DOWNLIGHT	1,759.98	
34 41 13 00-0105	EA	Flashing Beacon, Bracket Mounted	657.79	
34 41 13 00-0106	EA	Flashing Beacon, Mast Arm Mounted	657.79	
34 41 13 00-0107	EA	Flashing Beacon, Solar Powered, Bracket Mounted	14,838.43	
34 41 13 00-0108	EA	Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US)	2,672.18	
34 41 13 00-0109	EA	Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US)	1,446.92	
34 41 13 00-0110	EA	Smart Sensor HD (Wavetronix HD125)	7,590.21	
34 41 13 00-0111	EA	Access Point (Sensys AP240-ES)	3,523.66	
		Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0112	EA	Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA	6,079.79	
34 41 13 00-0113	EA	Mounting Kit for Access Points and Repeaters (KIT-MTG)	228.57	
34 41 13 00-0114	EA	Repeater (Sensys RP240-B-LL)	1,615.42	
		Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0115	EA	Wireless Flush Mounted Sensor (Sensys VSN240-F)	742.54	
		Note: Excludes coring.		
34 41 13 00-0116	EA	Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	1,868.36	
34 41 13 00-0117	EA	Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles	5,252.78	1.55
34 41 13 00-0118	EA	Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles	6,838.37	1.55
34 41 13 00-0119	EA	Pole Base Foundation for Type 15 and 21 Poles	4,121.96	1.55
34 41 13 00-0120	EA	Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles	5,252.78	1.55
34 41 13 00-0121	EA	Pole Base Foundation for 26-4-100 And 27-4-100 Poles	6,838.37	1.55
34 41 13 00-0122	EA	LED Enhanced Pedestrian Crossing Symbol Sign	1,339.76	97.44
		Note: 2 required per system.		
34 41 13 00-0123	EA	42" Height, 8-1/2" Diameter Automatic Bollard Activation System	3,940.84	584.63
		Note: 4 required per system.		
34 41 13 00-0124	EA	Power Control Unit With Enclosure (Solar)	13,064.92	389.75
		Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41 13 00-0125	EA	Power Control Unit With Enclosure (A/C)	8,445.91	389.75
34 41 13 00-0126	EA	Push Button Assembly With Sign	820.99	194.87
34 41 13 00-0127	EA	Advanced Warning Signs	1,530.13	194.87
34 41 13 00-0128	EA	Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000)	4,493.19	
34 41 13 00-0129	EA	Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100)	4,616.58	
34 41 13 00-0130	EA	Traffic Signal Controller Unit, TS 2 Type 2 Econolite Model ASC/2S-2100	38,315.47	
34 41 13 00-0131	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way	849.81	
34 41 13 00-0132	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way	922.39	
34 41 13 00-0133	EA	Optical Detector For Mast Arm Mounting, 2 Channel	1,160.46	
34 41 13 00-0134	EA	2 Channel Phase Selector	2,484.76	
34 41 13 00-0135	EA	4 Channel Phase Selector	3,856.52	
34 41 13 00-0136	EA	Malfunction Management Unit For Use With NEMA Controller	1,267.94	
34 41 13 00-0137	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way	849.81	213.33
34 41 13 00-0138	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way	922.39	213.33
34 41 13 00-0139	EA	Optical Detector For Pole-Side Mounting, 2 Channel	1,160.46	213.33
34 41 13 00-0140	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way	849.81	213.33
34 41 13 00-0141	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way	922.39	213.33
34 41 13 00-0142	EA	Optical Detector For Pedestal Or Pipe Mounting, 2 Channel	1,160.46	213.33
34 41 13 00-0143	EA	Optical Detector For Span Wire Mounting, 1 Channel, 1 Way	849.81	213.33
34 41 13 00-0144	EA	Optical Detector For Span Wire Mounting, 1 Channel, 2 Way	922.39	213.33
34 41 13 00-0145	EA	Optical Detector For Span Wire Mounting, 2 Channel	1,160.46	213.33
34 41 13 00-0146	EA	Optical Detector For Signal Top Mounting, 1 Channel, 1 Way	849.81	213.33
34 41 13 00-0147	EA	Optical Detector For Signal Top Mounting, 1 Channel, 2 Way	922.39	213.33
34 41 13 00-0148	EA	Optical Detector For Signal Top Mounting, 2 Channel	1,160.46	213.33
34 41 13 00-0149	EA	Time Switch, 1-Circuit	213.36	
34 41 13 00-0150	EA	Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal	256.02	
34 41 13 00-0151	EA	Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay	332.96	
34 41 13 00-0152	EA	Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal	470.86	
34 41 13 00-0153	EA	Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay	589.89	
34 41 13 00-0154	EA	Digital Loop-Type Vehicle Detector Card Rack With Power Supply	1,591.49	
34 41 13 00-0155	EA	Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet	1,591.49	
34 41 13 00-0156	EA	Power Line Surge Protector - Edco SHP 300-10	150.11	
34 41 13 00-0157	EA	Loop Detector Surge Protector - Edco SRA-6LC	78.20	
34 41 13 00-0158	EA	Controller Cabinet; Econolite Type "O"	22,294.78	
34 41 13 00-0159	EA	Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay	9,989.57	
34 41 13 00-0160	EA	Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays	10,816.98	
34 41 13 00-0161	EA	Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay	11,811.33	
34 41 13 00-0162	EA	Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays	12,116.16	
34 41 13 00-0163	EA	Speed Limit Beacon Control Cabinet	5,073.83	
34 41 13 00-0164	EA	Remote Detector Cabinet	2,823.85	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0165	EA	Traffic Signal Hand Control	748.86	
34 41 13 00-0166	EA	Extra Pedestrian Detector Isolation Assembly	603.70	
34 41 13 00-0167	EA	Fiber Optic Transceivers-Repeater Module	915.85	
34 41 13 00-0168	EA	Field Transceiver-Repeater	425.93	
34 41 13 00-0169	EA	Load Switch	72.61	
34 41 13 00-0170	EA	30" Pedestal With Base Plate And Cover	639.80	
34 41 13 00-0171	EA	8' Pedestal With Base Plate And Cover	928.37	
34 41 13 00-0172	EA	11' Pedestal With Base Plate And Cover	1,032.03	
34 41 13 00-0173	EA	15' Pedestal With Base Plate And Cover	1,150.84	
34 41 13 00-0174	LF	6-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.27	
34 41 13 00-0175	LF	12-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.37	
34 41 13 00-0176	LF	24-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.58	
34 41 13 00-0177	LF	36-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.79	
34 41 13 00-0178	LF	48-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.01	
34 41 13 00-0179	LF	72-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.34	
34 41 13 00-0180	LF	96-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.68	
34 41 13 00-0181	LF	144-Fiber Interconnect Cable, Fiber Optic, Single Mode	3.29	
34 41 13 00-0182	LF	3/16" Diameter Messenger Cable	0.54	0.09
34 41 13 00-0183	LF	1/4" Diameter Messenger Cable	0.64	0.09
34 41 13 00-0184	LF	3/8" Diameter Messenger Cable	1.17	0.09
34 41 13 00-0185	LF	1/2" Diameter Messenger Cable	2.41	0.19
34 41 13 00-0186	EA	4' Diameter x 10' Concrete Base For Poles Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	2,513.52	
34 41 13 00-0187	EA	4' Diameter x 16' Concrete Base For Poles Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.	4,002.69	
34 41 13 00-0188	EA	Internally Illuminated Street Name Sign, 1 Line, 4'	1,991.27	240.80
34 41 13 00-0189	EA	Internally Illuminated Street Name Sign, 1 Line, 6'	2,460.07	301.00
34 41 13 00-0190	EA	Internally Illuminated Street Name Sign, 1 Line, 8'	2,696.60	361.20
34 41 13 00-0191	EA	Internally Illuminated Street Name Sign, 1 Line, 10'	3,049.25	421.40
34 41 13 00-0192	EA	Internally Illuminated Street Name Sign, 1 Line, 12'	3,285.78	481.61
34 41 13 00-0193	EA	Internally Illuminated Street Name Sign, 2 Line, 4'	3,088.68	240.80
34 41 13 00-0194	EA	Internally Illuminated Street Name Sign, 2 Line, 6'	3,807.15	301.00
34 41 13 00-0195	EA	Internally Illuminated Street Name Sign, 2 Line, 8'	4,124.97	361.20
34 41 13 00-0196	EA	Internally Illuminated Street Name Sign, 2 Line, 10'	4,616.98	421.40
34 41 13 00-0197	EA	Internally Illuminated Street Name Sign, 2 Line, 12'	4,969.64	481.61
34 41 13 00-0198	EA	Photoelectric Controller, Multi-Volt	77.23	27.73
34 41 13 00-0199	EA	Photoelectric Controller, 120 Volt	88.55	27.73
34 41 13 00-0200	EA	Photoelectric Controller, 480 Volt	88.55	27.73
34 41 13 00-0201	EA	Wi-Fi Communication Unit	1,037.73	120.40
34 41 13 00-0202	EA	Wi-Fi Communication Unit Mounting Bracket	253.18	90.30
34 41 13 00-0203	EA	Wi-Fi Communication Unit Power Supply / POE Injector	220.56	60.20
34 41 13 00-0204	EA	Wi-Fi Communication Unit Packet	1,872.68	180.60
34 41 13 00-0205	LF	Preemptor Detector Cable	1.95	
34 41 13 00-0206	EA	Sno-Shoe Cable Storage Assembly	199.32	

34 41 13 00-0207 Traffic Signal Cable *(34 41 13)*

34 41 13 00-0208	LF	16 AWG, 2-Conductor, Solid, Traffic Signal Cable	1.85	0.83
34 41 13 00-0209	LF	16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.05	0.89
34 41 13 00-0210	LF	16 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.24	0.96
34 41 13 00-0211	LF	16 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.42	1.02
34 41 13 00-0212	LF	16 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.65	1.07
34 41 13 00-0213	LF	16 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.04	1.19
34 41 13 00-0214	LF	16 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.57	1.37
34 41 13 00-0215	LF	16 AWG, 12-Conductor, Solid, Traffic Signal Cable	4.07	1.55
34 41 13 00-0216	LF	16 AWG, 16-Conductor, Solid, Traffic Signal Cable	4.76	1.73
34 41 13 00-0217	LF	16 AWG, 20-Conductor, Solid, Traffic Signal Cable	5.54	1.90
34 41 13 00-0218	LF	14 AWG, 2-Conductor, Solid, Traffic Signal Cable	1.90	0.83
34 41 13 00-0219	LF	14 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.12	0.89
34 41 13 00-0220	LF	14 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.32	0.96
34 41 13 00-0221	LF	14 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.52	1.02
34 41 13 00-0222	LF	14 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.78	1.07
34 41 13 00-0223	LF	14 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.20	1.19
34 41 13 00-0224	LF	14 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.77	1.37
34 41 13 00-0225	LF	14 AWG, 12-Conductor, Solid, Traffic Signal Cable	4.31	1.55
34 41 13 00-0226	LF	14 AWG, 16-Conductor, Solid, Traffic Signal Cable	5.08	1.73
34 41 13 00-0227	LF	14 AWG, 20-Conductor, Solid, Traffic Signal Cable	5.97	1.90
34 41 13 00-0228	LF	12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.01	0.83
34 41 13 00-0229	LF	12 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.28	0.89
34 41 13 00-0230	LF	12 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.52	0.96
34 41 13 00-0231	LF	12 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.77	1.02
34 41 13 00-0232	LF	12 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.08	1.07
34 41 13 00-0233	LF	12 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.60	1.19
34 41 13 00-0234	LF	12 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.26	1.37
34 41 13 00-0235	LF	12 AWG, 12-Conductor, Solid, Traffic Signal Cable	4.90	1.55
34 41 13 00-0236	LF	12 AWG, 16-Conductor, Solid, Traffic Signal Cable	5.86	1.73
34 41 13 00-0237	LF	12 AWG, 20-Conductor, Solid, Traffic Signal Cable	7.01	1.90

34 41 13 00-0238 School Zone Flasher Beacons *(34 41 13)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0239	EA	One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	3,948.14	180.40
34 41 13 00-0240	EA	One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	3,975.72	180.40
34 41 13 00-0241	EA	Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	4,443.89	180.40
34 41 13 00-0242	EA	Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	4,532.14	180.40
34 41 13 00-0243	EA	10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.	8,259.03	180.40
34 41 13 00-0244	EA	10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	8,604.85	180.40

34 41 13 00-0245 Traffic Light Control Synchronization *(34 41 13)*

34 41 13 00-0246	EA	ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.	3,455.57	
34 41 13 00-0247	EA	ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	2,603.03	
34 41 13 00-0248	EA	ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24)	6,133.45	
34 41 13 00-0249	EA	5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	4,118.27	
34 41 13 00-0250	EA	2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	4,118.27	
34 41 13 00-0251	EA	Solar Cabinet Assembly	11,366.21	
34 41 13 00-0252	EA	Data Controller Interface Cable Assembly	467.54	
34 41 13 00-0253	EA	900 MHZ Splitter	520.22	
34 41 13 00-0254	EA	900 MHz Surge Suppressor	184.81	
34 41 13 00-0255	EA	Surge-Radio Lead in Cable	116.11	
34 41 13 00-0256	EA	12DB GAIN YAGI Antenna	554.56	
34 41 13 00-0257	EA	PELCO Antenna Mounting Bracket	386.32	
34 41 13 00-0258	MLF	Coaxial Cable, LMR-400	2,821.95	
34 41 13 00-0259	EA	Perle 16 Port Serial Server	3,234.12	
34 41 13 00-0260	EA	Serial to Ethernet Card	1,609.50	
34 41 13 00-0261	EA	404 Stand Alone Modem (GDI 404)	1,424.80	

34 41 13 00-0262 Traffic Signal Controls *(34 41 13)*

34 41 13 00-0263	EA	Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2)	1,290.83	
34 41 13 00-0264	EA	Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2)	500.41	
34 41 13 00-0265	EA	AccessBox for contract closure master card (CC-ACC)	178.86	
34 41 13 00-0266	EA	Flush Mount Wireless Sensor (ATT VSN240-F)	693.14	
34 41 13 00-0267	EA	Flush Mount Wireless Sensor (Speed & Count VSN240-F)	693.14	
34 41 13 00-0268	EA	Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	107.71	
34 41 13 00-0269	EA	SNAPS License for each enabled AP (SNAPS-PER-AP)	289.69	

34 41 13 00-0270 Traffic Signal Devices *(34 41 13)*

34 41 13 00-0271	EA	12" Polycarbonate Signal Head Housing (McCain)	672.83	87.69
34 41 13 00-0272	EA	16" Polycarbonate Pedestrian Signal Housing (McCain)	354.04	68.21
34 41 13 00-0273	EA	Pedestrian Push Button Cap & Switch (McCain M31334)	303.08	126.67
34 41 13 00-0274	EA	Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	420.01	185.13
34 41 13 00-0275	EA	Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	324.64	146.16
34 41 13 00-0276	EA	16 Channel Conflict Monitor (McCain 2010 ECLip)	978.54	63.33
34 41 13 00-0277	EA	LED Countdown Head (McCain GTX PS7-CFF1-VLA)	206.66	24.36
34 41 13 00-0278	EA	Traffic signal Video Detection Camera (Iteris RZ4-awdr)	2,197.91	107.18
34 41 13 00-0279	EA	Camera processor card (Iteris Edge Connect)	4,975.30	155.90
34 41 13 00-0280	EA	Wireless Broadband Radio (Encom BB58)	4,697.76	146.16
34 41 13 00-0281	EA	24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	3,112.78	116.93
34 41 13 00-0282	EA	Power Adapter (Mean Well DR-120-48)	124.83	36.54
34 41 13 00-0283	LF	14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452)	0.79	
34 41 13 00-0284	EA	Radar Detection System (Wavetronix Matrix)	9,165.42	370.27
34 41 13 00-0285	EA	Pedestrian Audio Push Button (Polara APS)	309.22	92.57
34 41 13 00-0286	EA	Opticom Infrared System - Detector (GTT 711)	728.48	86.91
34 41 13 00-0287	EA	Opticom Infrared System - Detector (GTT 721)	815.05	97.24
34 41 13 00-0288	EA	Opticom Infrared System - Detector (GTT 722)	1,135.18	135.44
34 41 13 00-0289	EA	Opticom Multimode Phase Selector (GTT 764)	3,581.43	80.14
34 41 13 00-0290	LF	Opticom GPS Installation Cable (GTT 1070)	0.94	
34 41 13 00-0291	EA	Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324)	613.64	
34 41 13 00-0292	EA	Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730)	650.68	
34 41 13 00-0293	EA	UPS Module (Alpha Technologies FXM 350) Note: For battery backup in traffic signal control cabinet	987.05	53.33
34 41 13 00-0294	EA	Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual) Note: To control flashing "School" signs	323.91	43.85
34 41 13 00-0295	LF	Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR)	6.96	0.45
34 41 13 00-0296	LF	Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	1.80	0.38

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0297	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA)	107.90	43.85
34 41 13 00-0298	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA)	107.90	43.85
34 41 13 00-0299	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA)	107.90	43.85
34 41 13 00-0300	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA)	107.90	43.85
34 41 13 00-0301	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA)	107.90	43.85
34 41 13 00-0302	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA)	107.90	43.85
34 41 13 00-0303	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA)	311.44	112.05
34 41 13 00-0304	EA	EOC Switch (Actellis ML688)	3,686.79	346.65
34 41 13 00-0305	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro)	986.65	79.99
34 41 13 00-0306	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T)	83.33	19.54
34 41 13 00-0307	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J)	282.95	28.29
34 41 13 00-0308	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T)	101.89	19.54
34 41 13 00-0309	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J)	340.39	28.29
34 41 13 00-0310	EA	Battery Back-up (Alpha FXM110 UPS)	2,330.63	106.66
34 41 13 00-0311	EA	Battery (Alpha AlphaCell 220GXL)	335.63	26.67
34 41 13 00-0312	EA	BBS Cabinet (Alpha SE48-1616)	2,738.42	239.98
34 41 13 00-0313	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20)	5.01	2.08
34 41 13 00-0314	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20)	2.23	0.96
34 41 13 00-0315	EA	FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE)	853.44	79.99
34 41 13 00-0316	EA	12" THREE SECTION HOUSING (McCain M22435)	586.58	53.33
34 41 13 00-0317	EA	12" FOUR SECTION HOUSING (McCain M30883)	759.89	79.99
34 41 13 00-0318	EA	12" FIVE SECTION HOUSING (McCain M31769)	879.87	79.99
34 41 13 00-0319	EA	12" CLUSTER, WITHOUT MAS (McCain M30987)	939.86	79.99
34 41 13 00-0320	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650)	586.58	53.33
34 41 13 00-0321	EA	NAVIGATOR iN2 APS 2 WIRE PPB #iN250N0-B (Polara iN250N0-B)	586.58	53.33
34 41 13 00-0322	EA	NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polara iCCU-C)	3,372.81	186.66
34 41 13 00-0323	EA	NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polara iN2-ICB-C)	173.31	26.67
34 41 13 00-0324	EA	NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polara iN2-150-WPS-C)	173.31	26.67
34 41 13 00-0325	EA	NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polara iN2-c4cable-C)	379.94	40.00
34 41 13 00-0326	EA	12" Visor (McCain M19302)	33.33	10.67
34 41 13 00-0327	EA	LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256)	319.95	40.00
34 41 13 00-0328	EA	SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258)	526.59	53.33
34 41 13 00-0329	EA	CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259)	969.85	79.99
34 41 13 00-0330	EA	ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487)	526.59	53.33
34 41 13 00-0331	EA	HARN, SB1/SB2,COMM EXTENSION (McCain M48062)	113.32	26.67
34 41 13 00-0332	EA	ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489)	319.95	40.00
34 41 13 00-0333	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650)	586.58	53.33
34 41 13 00-0334	EA	242L ISOLATOR, EDI (McCain M56812)	113.32	26.67
34 41 13 00-0335	EA	EDI 222 DETECTOR (McCain M11407)	143.31	26.67
34 41 13 00-0336	EA	ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763)	2,306.31	133.32
34 41 13 00-0337	EA	GENERATOR SWITCH AND PLUG ASS'Y FOR ALPHA BBS (McCain M68752-2)	394.61	53.33
34 41 13 00-0338	EA	BBS BATTERY, ALPHACELL 165GXL (McCain M59884)	526.59	53.33
34 41 13 00-0339	EA	Battery Backup Cabinet Anodize 44x26x12 (McCain M64438A)	1,089.83	79.99

34 41 16 Traffic Control Equipment *(34 41)*

34 41 16 00-0001 Transportation Control Equipment *(34 41 16)*

34 41 16 00-0002	EA	CONTROLLER/SL/POLE MTD/1-PHASE/100A	7,286.97	832.22
34 41 16 00-0003	EA	CONTROLLER/SL/ON EMB POLE 1-PH/100A	7,382.84	880.15
34 41 16 00-0004	EA	CONTROLLER, SL, 3-PHASE, 100A, BASE MTD	8,925.28	890.50
34 41 16 00-0005	EA	CONTROLLER, SL, 3-PHASE, 200A, BASE MTD	10,619.03	1,081.21
34 41 16 00-0006	EA	CONTROLLER/SL/BASE MTD/1-PHASE/100A	8,588.58	533.38
34 41 16 00-0007	EA	CONTROLLER/SL/BASE MTD/1-PHASE/200A	9,519.30	583.95
34 41 16 00-0008	EA	CONTROLLER, TS, 12-BAY, "M" CABINET	15,662.26	918.07
34 41 16 00-0009	EA	CONTROLLER, TS, 12-BAY, "P" CABINET	16,686.36	1,017.40
34 41 16 00-0010	EA	CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER	23,749.09	1,143.82
34 41 16 00-0011	EA	CONTROLLER, TS, 16-BAY, "P" CABINET	18,882.40	1,083.62
34 41 16 00-0012	EA	CONTROLLER, PEDESTRIAN CROSSING, ADD-IN	594.91	127.26
34 41 16 00-0013	EA	CONCRETE BLOCK PEDESTAL	692.37	191.08
34 41 16 00-0014	WK	MAINTAIN EXIST TS INSTALLATION	296.24	148.11
34 41 16 00-0015	EA	INST SIGN BOARDS, ST. NAME	527.91	252.00
34 41 16 00-0016	EA	F.O. ADD-IN FOR LOCAL CONTROLLER	7,889.12	333.53
34 41 16 00-0017	EA	F.O. ADD-IN FOR MASTER CONTROLLER	18,954.12	500.44
34 41 16 00-0018	EA	PDU Equipped netBooter With IEC320 C13 Outlets (Synaccess NP-0808DUH)	691.36	13.89
34 41 16 00-0019	EA	Remote Power Switched netBooter PDU, 8 Independent Outlets (Synaccess NP-0801DU)	395.45	13.89

34 41 16 00-0020 Transportation Cabinets *(34 41 16)*

34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) *(34 41 16 00-0020)*

34 41 16 00-0022	EA	50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures)	1,873.86	159.99
34 41 16 00-0023	EA	66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures)	7,762.93	159.99
34 41 16 00-0024	EA	46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures)	1,756.34	159.99
34 41 16 00-0025	EA	50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures)	1,873.86	159.99
34 41 16 00-0026	EA	60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures)	8,024.08	159.99
34 41 16 00-0027	EA	55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures)	1,234.03	159.99

34 41 16 00-0028 Transportation Cabinets (APX Enclosures) *(34 41 16 00-0020)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0029	EA	28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017) Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.	4,473.78	186.66
34 41 16 00-0030		**Transportation Cabinets (Transportation Control Systems)** *(34 41 16 00-0020)*		
34 41 16 00-0031	EA	30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	1,769.57	159.99
34 41 16 00-0032	EA	30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	2,193.58	170.66
34 41 16 00-0033		**Transportation Cabinets (McCain)** *(34 41 16 00-0020)*		
34 41 16 00-0034	EA	24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i) Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	8,099.80	186.66
34 41 16 00-0035	EA	24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332) Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	8,099.80	186.66
34 41 16 00-0036	EA	ATC ColdFire Controller (McCain 170)	4,203.00	
34 41 16 00-0037		**Traffic Control Equipment** *(34 41 16)*		
34 41 16 00-0038	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15)	228.53	53.33
34 41 16 00-0039	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M)	294.57	53.33
34 41 16 00-0040	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M)	336.51	53.33
34 41 16 00-0041	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30)	265.20	53.33
34 41 16 00-0042	MLF	10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	2,115.26	584.63
34 41 16 00-0043	EA	Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	93.60	26.67
34 41 16 00-0044	EA	Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	402.14	60.13
34 41 16 00-0045	EA	Detection System, Vehicle, Two Sensor Preassembled Backplate, with AC Power (Wavetronix WX-SSB01-0003)	2,051.99	180.40
34 41 16 00-0046	EA	Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204)	368.75	26.67
34 41 16 00-0047	EA	Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	523.11	26.67
34 41 16 00-0048	EA	4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104)	609.99	53.33
34 41 16 00-0049	EA	Detection System, Vehicle, Four Sensor Preassembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005)	2,603.18	53.33
34 41 16 00-0050	EA	50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060)	360.80	180.40
34 41 16 00-0051	EA	60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060)	392.20	45.10
34 41 16 00-0052	EA	900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	348.45	60.13
34 41 16 00-0053	EA	900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120)	227.65	60.13
34 41 16 00-0054	EA	Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201)	234.53	26.67
34 41 16 00-0055	EA	24 Volt DC 2 Amperes, Wavetronix Smartsensor (Wavetronix WX-CLK-202)	281.51	26.67
34 41 16 00-0056	EA	Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250)	133.86	26.67
34 41 16 00-0057	EA	Power, RS232/RS485 Surge, Wavetronix Smartsensor (Wavetronix WX-CLK-200)	375.46	26.67
34 41 16 00-0058	EA	Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222)	422.44	26.67
34 41 16 00-0059	EA	RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	523.11	26.67
34 41 16 00-0060	EA	Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	53.33	26.67
34 41 16 00-0061	EA	Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611)	355.16	60.13
34 41 16 00-0062	MLF	LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400)	2,450.82	584.63
34 41 16 00-0063	EA	N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC)	46.76	16.00
34 41 16 00-0064	EA	Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	694.82	64.00
34 41 16 00-0065	EA	Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco ld53hdpb-1)	682.04	79.99
34 41 16 00-0066	EA	24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	185.02	26.67
34 41 16 00-0067	EA	10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	135.01	26.67
34 41 16 00-0068	EA	24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	356.49	26.67
34 41 16 00-0069	EA	Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	155.27	26.67
34 41 16 00-0070	EA	120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	68.60	26.67
34 41 16 00-0071	EA	Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009) Note: Input/Output for sign peripherals.	509.32	53.33
34 41 16 00-0072	EA	Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009) Note: Input/Output for sign peripherals.	509.32	53.33
34 41 16 00-0073	EA	Control Area Network Distribution Board (Daktronics 0P-1248-0005) Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.	945.54	53.33
34 41 16 00-0074	EA	Control Area Network Distribution Board (Daktronics 0P-1248-0011) Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.	945.54	53.33
34 41 16 00-0075	EA	Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019) Note: Measures temperature and detects light and reports to CAN Dist Board.	334.84	53.33
34 41 16 00-0076	EA	Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015) Note: Measures temperature and detects light and humidity and reports to CAN Dist board.	469.06	53.33
34 41 16 00-0077	EA	Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021) Note: Measures temperature and detects light and humidity and reports to CAN Dist board.	469.06	53.33
34 41 16 00-0078	EA	Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003) Note: Measures temperature and detects light and reports to CAN Dist board.	388.53	53.33
34 41 16 00-0079	EA	Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016) Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.	6,466.61	213.33
34 41 16 00-0080	EA	DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025) Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.	281.51	26.67
34 41 16 00-0081	EA	Driver (Daktronics 0P-1100-0026) Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.	528.25	42.67

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0082	EA	External Temp Sensor (Daktronics 0P-1100-0014) Note: Sensor that measures ambient temperature.	467.85	42.67
34 41 16 00-0083	EA	Internal Temp Sensor (Daktronics 0P-1100-0038) Note: Sensor that measures sign internal temperature.	521.54	42.67
34 41 16 00-0084	EA	Light Level Detector (Daktronics 0P-1151-0002) Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.	320.21	42.67
34 41 16 00-0085	EA	Module (Daktronics 0A-1253-0608) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	945.54	53.33
34 41 16 00-0086	EA	Module (Daktronics 0A-1253-3018) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,180.43	53.33
34 41 16 00-0087	EA	Module (Daktronics 0A-1266-5002) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,046.21	53.33
34 41 16 00-0088	EA	Module (Daktronics 0A-1332-6252) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,448.88	53.33
34 41 16 00-0089	EA	Module (Daktronics 0A-1332-6455) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,180.43	53.33
34 41 16 00-0090	EA	Module (Daktronics 0A-1332-6654) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,180.43	53.33
34 41 16 00-0091	EA	Module (Daktronics 0P-1332-3015) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	643.55	53.33
34 41 16 00-0092	EA	Module (Daktronics 0P-1332-4116) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	643.55	53.33
34 41 16 00-0093	EA	Module (Daktronics 0P-1332-5031) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	643.55	53.33
34 41 16 00-0094	EA	Module (Daktronics 0P-1332-5017) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	643.55	53.33
34 41 16 00-0095	EA	Module Without Pan (Daktronics 0A-1253-0603) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.	945.54	53.33
34 41 16 00-0096	EA	Module Without Pan (Daktronics 0A-1253-1605) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.	945.54	53.33
34 41 16 00-0097	EA	Module Without Pan (Daktronics 0A-1254-1601) Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.	945.54	53.33
34 41 16 00-0098	EA	Pixel Strip (Daktronics 0P-1100-0016) Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.	341.55	53.33
34 41 16 00-0099	EA	Pixel Strip (Daktronics 0P-1100-0029) Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.	395.24	53.33
34 41 16 00-0100	EA	Power Supply (Daktronics A-1593) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,113.32	53.33
34 41 16 00-0101	EA	Power Supply (Daktronics A-1648) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,113.32	53.33
34 41 16 00-0102	EA	Power Supply (Daktronics A-2307) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	442.21	53.33
34 41 16 00-0103	EA	Surge Suppressor (Daktronics A-1129) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	184.80	32.00
34 41 16 00-0104	EA	Surge Suppressor (Daktronics A-1412) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	366.00	32.00
34 41 16 00-0105	EA	Surge Suppressor (Daktronics A-1772) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	366.00	32.00
34 41 16 00-0106	EA	Surge Suppressor (Daktronics A-2139) Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	533.78	32.00
34 41 16 00-0107	EA	VCB, Vanguard Control Board (Daktronics 0P-1248-0022) Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.	905.28	53.33
34 41 16 00-0108	EA	VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001) Note: Input/Output board for sign peripherals.	1,213.99	53.33
34 41 16 00-0109	EA	Power Supply Assembly (Daktronics A-1856R)	811.32	53.33
34 41 16 00-0110	EA	Power Supply Isolation Board (Daktronics 0P-1447-2000)	542.88	53.33
34 41 16 00-0111	EA	Ventilation/Circulation Fan (Daktronics B-1075)	220.75	53.33
34 41 16 00-0112	EA	VMS Controller (V2) (Daktronics 0A-1248-0028)	6,466.61	213.33
34 41 16 00-0113	EA	Photo/Temp Sensor (Daktronics 0P-1247-0015)	469.06	53.33
34 41 16 00-0114	EA	Defog Fan (Daktronics B-1053)	86.89	26.67
34 41 16 00-0115	EA	Defog Heater (Daktronics A-1792)	107.02	26.67
34 41 16 00-0116	EA	Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF)	609.99	53.33
34 41 16 00-0117	EA	Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF)	609.99	53.33
34 41 16 00-0118	EA	1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R)	786.75	53.43
34 41 16 00-0119	EA	1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E)	786.75	53.43
34 41 16 00-0120	EA	16-Port Video Encoder Featuring H.264 Technology (Verint S1816E)	4,134.73	53.43
34 41 16 00-0121	EA	Encoder H.264 Compact, Hiperfmc (Verint S1802E)	1,008.41	53.43
34 41 16 00-0122	EA	110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261)	147.38	26.67
34 41 16 00-0123	EA	1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E)	495.42	53.43
34 41 16 00-0124	EA	Single/Quad-Stream Decoder (Bosch VIP-XD)	1,248.36	53.43
34 41 16 00-0125	EA	1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4)	251.63	53.33
34 41 16 00-0126	EA	4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B)	547.45	53.33
34 41 16 00-0127	EA	12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750)	192.95	13.36
34 41 16 00-0128	EA	Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B)	2,411.16	106.66
34 41 16 00-0129	EA	Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1)	159.86	26.67
34 41 16 00-0130	EA	4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM)	2,166.80	53.33
34 41 16 00-0131	EA	208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM)	5,227.05	263.98

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0132	EA	30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB)	726.44	138.66
34 41 16 00-0133	EA	30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30)	20.81	8.53
34 41 16 00-0134	EA	60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS)	1,804.99	106.66
34 41 16 00-0135	EA	60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60)	41.20	8.53
34 41 16 00-0136	EA	50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820)	1,583.84	60.13
34 41 16 00-0137	EA	Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810)	105.14	40.53
34 41 16 00-0138	EA	12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469)	271.19	53.33
34 41 16 00-0139	EA	Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT)	443.26	13.89
34 41 16 00-0140	EA	Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H))	477.21	13.89
34 41 16 00-0141	EA	550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027)	260.34	21.33
34 41 16 00-0142	EA	10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E)	3,119.41	127.99
34 41 16 00-0143	EA	12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC)	123.27	24.53
34 41 16 00-0144	EA	6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK)	31.02	5.33
34 41 16 00-0145	EA	170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC)	967.66	53.33
34 41 16 00-0146	EA	12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E)	3,353.63	106.66
34 41 16 00-0147	EA	2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000)	2,343.10	175.99
34 41 16 00-0148	EA	100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS)	667.59	305.05
34 41 16 00-0149	EA	70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S)	465.80	213.33
34 41 16 00-0150	EA	60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260)	90.10	28.80
34 41 16 00-0151	EA	15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515)	66.81	19.20
34 41 16 00-0152	EA	15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120)	54.67	19.20
34 41 16 00-0153	EA	20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120)	54.67	19.20
34 41 16 00-0154	EA	One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4)	251.63	53.33
34 41 16 00-0155	EA	DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC)	219.79	26.72
34 41 16 00-0156	EA	H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC)	1,952.71	26.72
34 41 16 00-0157	EA	Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC)	382.45	13.89
34 41 16 00-0158	EA	Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version)	7,829.86	180.40
34 41 16 00-0159	EA	Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9)	325.21	60.13

34 70 Transportation Construction and Equipment *(34)*

34 71 Roadway Construction *(34 70)*

34 71 13 Vehicle Barriers *(34 71)*

34 71 13 13 Vehicle Median Barriers *(34 71 13)*

34 71 13 13-0001 Concrete Median Barrier *(34 71 13 13)*

34 71 13 13-0002	LF	Median Barrier, Precast, 42" High Single Face	61.14	3.87
34 71 13 13-0003	LF	Median Barrier, Precast, 32" High, 2' Wide Base, Double Face	98.74	3.87
34 71 13 13-0004	LF	Median Barrier, Precast, 42" High, 2' Wide Base, Double Face	138.02	3.87
34 71 13 13-0005	LF	Median Barrier, Cast In Place With Steel Forms	41.20	5.26
34 71 13 13-0006	LF	Median Barrier, Slipformed Concrete	35.50	3.11

34 71 13 16 Vehicle Crash Barriers *(34 71 13)*

34 71 13 16-0001 Impact Barrier, Non-Redirective *(34 71 13 16)*

34 71 13 16-0002 Sand Barrel Impact Attenuator *(34 71 13 16-0001)*
Note: Includes containers, inserts, and lid. Excludes sand.

34 71 13 16-0003	EA	200, 400 Or 700 LB Sand Barrel Note: Includes containers, inserts, and lid.	653.26	47.24

34 71 13 26 Vehicle Guide Rails *(34 71 13)*

34 71 13 26-0001 Mobilize Guide Rail Crew *(34 71 13 26)*

34 71 13 26-0002	EA	Mobilize Guide Rail Crew Note: Excludes equipment mobilization.	1,201.80	

34 71 13 26-0003 Corrugated Beam Guide Rail *(34 71 13 26)*

34 71 13 26-0004 Corrugated Beam Guide Railing *(34 71 13 26-0003)*

34 71 13 26-0005 Corrugated Beam Guide Railing. Straight Sections *(34 71 13 26-0004)*
Note: Add additional length for back-up sections.

34 71 13 26-0006	LF	Corrugated Beam Guide Railing	16.54	2.15
34 71 13 26-0007	LF	Corrugated Beam Guide Railing (Rustic)	17.83	2.15

34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved *(34 71 13 26-0004)*
Note: Add additional length for back-up sections.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0009	LF	Shop Curved Corrugated Beam Guide Railing	21.59	2.15
34 71 13 26-0010	LF	Shop Curved Corrugated Beam Guide Railing (Rustic)	23.37	2.15
34 71 13 26-0011	LF	Shop Curved Corrugated Beam Guide Railing End Note: Treatment for mall barriers driveways, walkways, special end, etc.	55.28	2.15
34 71 13 26-0012	LF	Shop Curved Corrugated Beam Guide Railing (Rustic) End Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.	60.31	2.15

34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections *(34 71 13 26-0003)*

34 71 13 26-0014	EA	Corrugated Beam Guide Railing End Section At Anchor Unit	125.41	28.33
34 71 13 26-0015	EA	Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit	132.29	28.33
34 71 13 26-0016	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section	166.65	28.33
34 71 13 26-0017	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic)	173.53	28.33
34 71 13 26-0018	EA	Corrugated Beam Guide Railing 225 Degree End Section	166.65	28.33
34 71 13 26-0019	EA	Corrugated Beam Guide Railing 225 Degree End Section (Rustic)	173.53	28.33

34 71 13 26-0020 Corrugated Beam Guide Rail Posts *(34 71 13 26-0003)*

Note: Includes mounting hardware.

34 71 13 26-0021	EA	Standard Post For Corrugated Beam Guide Rail	129.16	14.38
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*3.84*	
34 71 13 26-0022	EA	Standard Post For (Rustic) Corrugated Beam Guide Rail	136.03	14.38
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*3.84*	
34 71 13 26-0023	EA	Extra Long Post For Corrugated Beam Guide Rail	142.90	14.38
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*3.84*	
34 71 13 26-0024	EA	Extra Long Post (Rustic) for Corrugated Beam Guide Rail	149.78	14.38
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*3.84*	
34 71 13 26-0025	EA	6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	129.16	14.38
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*3.84*	
34 71 13 26-0026	EA	Post Struts for Corrugated Beam Guide Rail Mall Barrier Post	184.14	14.38
		For Installation In Rock, Add	*3.84*	

34 71 13 26-0027 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts *(34 71 13 26-0003)*

Note: Includes mounting hardware. Excludes triangular mounting brackets.

34 71 13 26-0028	EA	Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	129.16	14.38
34 71 13 26-0029	EA	Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	136.03	14.38
34 71 13 26-0030	EA	Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide	142.90	14.38
34 71 13 26-0031	EA	Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail Note: For heavy post blocked out corrugated beam guide (rustic)	149.78	14.38
34 71 13 26-0032	EA	Type A Post 1630mm Post Note: For heavy post blocked out corrugated beam guide rail	125.72	14.38
34 71 13 26-0033	EA	Type A Post 1630mm Post (Rustic) Note: For heavy post blocked out corrugated beam guide rail	132.59	14.38
34 71 13 26-0034	EA	Type B Post 1460mm Note: For heavy post blocked out corrugated beam guide rail	118.85	14.38
34 71 13 26-0035	EA	Type B Post 1460mm (Rustic) Note: For heavy post blocked out corrugated beam guide rail	125.72	14.38
34 71 13 26-0036	EA	Type C Post 1290mm Note: For heavy post blocked out corrugated beam guide rail	111.97	14.38
34 71 13 26-0037	EA	Type C Post 1290mm (Rustic) Note: For heavy post blocked out corrugated beam guide rail	118.85	14.38
34 71 13 26-0038	EA	Breakaway Wood Or Steel Post In Steel Foundation Tube	473.93	14.38
34 71 13 26-0039	EA	Wood, Metal, Plastic Or Composite Offset Block Or Beam Note: For heavy post blocked out corrugated beam guide rail.	53.55	14.38

34 71 13 26-0040 Corrugated Beam Guide Rail Accessories *(34 71 13 26-0003)*

34 71 13 26-0041	EA	Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C	111.67	32.19

34 71 13 26-0042 Corrugated Beam Guide Rail Repair for Existing Guide Rail *(34 71 13 26-0003)*

Note: Includes associated hardware.

34 71 13 26-0043	LF	Removal And Storage Of Corrugated Beam Guide Railing And Post	12.58	
34 71 13 26-0044	EA	Install Stored Post For Corrugated Beam Guide Rail	42.93	
34 71 13 26-0045	LF	Install Stored Corrugated Beam Guide Railing And Post	7.29	

34 71 13 26-0046 Corrugated Thrie Beam Guide Railing *(34 71 13 26-0003)*

34 71 13 26-0047 Corrugated Thrie Beam Guide Railing. Straight Sections *(34 71 13 26-0046)*

Note: Add additional length for back-up sections.

34 71 13 26-0048	LF	Corrugated Thrie Beam Guide Railing	38.70	2.70
34 71 13 26-0049	LF	Corrugated Thrie Beam Guide Railing (Rustic)	40.80	2.70

34 71 13 26-0050 Corrugated Thrie Beam Guide Railing. Shop Curved *(34 71 13 26-0046)*

Note: Add additional length for back-up sections.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0051	LF	Shop Curved Corrugated Thrie Beam Guide Railing	47.08	2.70
34 71 13 26-0052	LF	Shop Curved Corrugated Thrie Beam Guide Railing (Rustic)	49.18	2.70
34 71 13 26-0053		**Corrugated Thrie Beam Guide Rail Posts** *(34 71 13 26-0046)*		
		Note: Includes hardware for mounting.		
34 71 13 26-0054	EA	Standard Post For Corrugated Thrie Beam Guide Rail	154.83	2.70
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For 32" Soil Plate, Add	*7.00*	
34 71 13 26-0055	EA	Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	161.70	2.70
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For 32" Soil Plate, Add	*7.00*	
34 71 13 26-0056		**Timber Guide Rails** *(34 71 13 26)*		
		Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0057		**Timber Guide Rail Posts** *(34 71 13 26-0056)*		
34 71 13 26-0058	EA	6" x 8" Timber Guide Rail Post	79.48	10.73
34 71 13 26-0059	EA	6" x 9" Timber Guide Rail Post	89.98	10.73
34 71 13 26-0060	EA	10" x 10" Timber Guide Rail Post	172.25	10.73
34 71 13 26-0061	EA	10" x 12" Timber Guide Rail Post	182.06	10.73
34 71 13 26-0062	EA	12" x 12" Timber Guide Rail Post	210.03	10.73
34 71 13 26-0063		**Timber Guide Rails** *(34 71 13 26-0056)*		
		Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0064	LF	4" x 9" Timber Guide Rail	9.85	1.28
34 71 13 26-0065	LF	6" x 10" Timber Guide Rail	13.63	1.28
34 71 13 26-0066	LF	6" x 12" Timber Guide Rail	15.84	1.28
34 71 13 26-0067		**Spacer Blocks For Timber Guide Rails** *(34 71 13 26-0056)*		
34 71 13 26-0068	EA	4" x 9" Spacer Block For Timber Guide Rails	12.83	1.72
34 71 13 26-0069	EA	6" x 8" Spacer Block For Timber Guide Rails	14.65	1.72
34 71 13 26-0070	EA	8" x 8" Spacer Block For Timber Guide Rails	16.96	1.72
34 71 13 26-0071		**Weathering Steel Backup Plates For Timber Guide Rails** *(34 71 13 26-0056)*		
34 71 13 26-0072	LF	6" High, Weathering Steel Backup Plate For Timber Guide Rails	17.29	1.07
34 71 13 26-0073		**Weathering Steel Splice And Bearing Plates For Timber Guide Rails** *(34 71 13 26-0056)*		
34 71 13 26-0074	EA	Weathering Steel Splice Plate For Timber Guide Rails	123.57	15.03
34 71 13 26-0075	EA	Weathering Steel Bearing Termination Plate For Timber Guide Rails	78.08	10.73
34 71 13 26-0076		**Cable Guide Rail** *(34 71 13 26)*		
34 71 13 26-0077		**Cable Guide Rail** *(34 71 13 26-0076)*		
34 71 13 26-0078	LF	Cable (Each Cable)	8.95	2.32
		Note: Includes tensioning. Excludes splices.		
34 71 13 26-0079	EA	Cable Splice With Wedges	227.66	16.09
34 71 13 26-0080		**Cable Guide Rail Posts** *(34 71 13 26-0076)*		
		Note: Includes hardware for cable mounting.		
34 71 13 26-0081	EA	Standard Post for Cable Guide Rail	167.00	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0082	EA	Standard Post (Rustic) for Cable Guide Rail	173.88	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0083	EA	Extra Long Post for Cable Guide Rail	173.88	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0084	EA	Extra Long Post (Rustic) for Cable Guide Rail	180.75	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0085	EA	Slip Impact Post Top for Anchor Unit	108.04	19.18
34 71 13 26-0086	EA	Slip Impact Post Base and Keeper Plate	279.88	19.18
		Note: For anchor unit.		
34 71 13 26-0087		**Cable Guide Rail Accessories For Breakaway Anchor Angle Systems** *(34 71 13 26-0076)*		
34 71 13 26-0088	EA	Turnbuckle Cable End Assembly For Use With Breakaway Anchors	520.42	215.04
34 71 13 26-0089	EA	Turnbuckle Cable End Assembly	151.80	10.76
34 71 13 26-0090	EA	Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	488.26	5.35
34 71 13 26-0091	EA	Spring Cable End Assembly (Compensating Device) Without Turnbuckle	502.01	5.35
34 71 13 26-0092	EA	Breakaway Anchor Angle	193.04	10.76
34 71 13 26-0093	EA	Standard End Post Cap Assembly	89.60	5.35

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0094	EA	Driveway End Post Cap Assembly	75.86	5.35
34 71 13 26-0095	EA	End Post Ground Support Plates	41.49	5.35
34 71 13 26-0096	EA	11" Stud Bolt, Cable Guide Rail	36.33	5.35
34 71 13 26-0097	EA	18" Stud Bolt, Cable Guide Rail	43.21	5.35
34 71 13 26-0098	EA	25" Stud Bolt, Cable Guide Rail	50.08	5.35
34 71 13 26-0099	EA	1-1/4" Diameter Turnbuckle, Cable Guide Rail	426.74	10.76
34 71 13 26-0100	EA	1-1/2" Diameter Turnbuckle, Cable Guide Rail	454.23	10.76
34 71 13 26-0101	EA	5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail	303.02	10.76
34 71 13 26-0102	EA	5/8" Eye Bolt 18" Long, Cable Guide Rail	185.83	5.35
34 71 13 26-0103	EA	3/4" Eye Bolt 8'-6" Long, Cable Guide Rail	193.04	10.76
34 71 13 26-0104	EA	1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail	207.04	16.09

34 71 13 26-0105 Cable Guide Rail Accessories For Slip Impact Post Systems *(34 71 13 26-0076)*

34 71 13 26-0106	EA	Turnbuckle Cable End Assembly Note: For use with slip impact post.	344.40	16.01
34 71 13 26-0107	EA	Spring Cable End Assembly (Compensating Device) Note: For use with slip impact post.	674.33	16.01
34 71 13 26-0108	EA	Anchor Angle For Slip Impact Post System	200.06	16.01
34 71 13 26-0109	EA	Cable End Assembly Rod Note: Includes cable end, threaded rod and keeper to anchor angle.	165.69	16.01

34 71 13 26-0110 Cable Guide Rail Repair For Existing Guide Rail *(34 71 13 26-0076)*

Note: All tasks include associated hardware.

34 71 13 26-0111	LF	Retention Existing Cable (Each Cable)	1.43	
34 71 13 26-0112	LF	Removal And Storage Of Cable Guide Railing	8.64	
34 71 13 26-0113	EA	Install Stored Post For Cable Guide Railing	63.90	
34 71 13 26-0114	LF	Install Stored Cable, (Each Cable) Note: Includes retensioning. Excludes splices.	3.82	

34 71 13 26-0115 6" x 6" Box Beam Guide Rail *(34 71 13 26)*

34 71 13 26-0116 Box Beam Guide Rail, 6" x 6" *(34 71 13 26-0115)*

34 71 13 26-0117 Straight Sections, Box Beam Guide Rail *(34 71 13 26-0116)*

34 71 13 26-0118	LF	Box Beam Guide Railing 6" x 6" x 3/16" Galvanized Note: Excludes splices.	46.56	2.70
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0119	LF	Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices.	52.84	2.70
		For Flush Mounting Directly To Structure, Add	*1.83*	

34 71 13 26-0120 Shop Curved, Box Beam Guide Rail *(34 71 13 26-0116)*

34 71 13 26-0121	LF	Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized Note: Excludes splices.	70.65	2.70
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0122	LF	Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices.	76.94	2.70
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	

34 71 13 26-0123 Box Beam Guide Rail End Treatment Sections *(34 71 13 26-0115)*

Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.

34 71 13 26-0124	EA	Box Beam End Piece Guide Railing Section Note: Galvanized excludes splices.	730.28	32.19
34 71 13 26-0125	EA	Box Beam End Piece Guide Railing Section (Rustic) Note: Excludes splices.	805.89	32.19
34 71 13 26-0126	EA	Box Beam Guide Railing End Treatment Section At Driveway, Galvanized Note: Excludes splices.	689.04	32.19
34 71 13 26-0127	EA	Box Beam Guide Railing End Treatment Section At Driveway, (Rustic) Note: Excludes splices.	716.53	32.19

34 71 13 26-0128 Splices For Box Beam Guide Rail *(34 71 13 26-0115)*

34 71 13 26-0129	EA	Splice For Box Beam Guide Rail	198.68	47.79
34 71 13 26-0130	EA	Splice For Box Beam Guide Rail (Rustic)	246.80	47.79

34 71 13 26-0131 Box Beam Guide Rail Posts *(34 71 13 26-0115)*

Note: Includes hardware for box beam mounting.

34 71 13 26-0132	EA	Standard Post For Box Beam Guide Rail	173.88	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0133	EA	Standard Post (Rustic) for Box Beam Guide Railing	180.75	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0134	EA	Extra Long Post For Box Beam Guide Rail	187.62	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0135	EA	Extra Long Post (Rustic) For Box Beam Guide Rail	194.50	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0136	EA	Type I End Assembly Post	167.00	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0137	EA	Type I End Assembly Post (Rustic)	173.88	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0138	EA	Type II End Assembly Post	160.13	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0139	EA	Type II End Assembly Post (Rustic)	167.00	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	

34 71 13 26-0140 Box Beam Guide Rail Accessories *(34 71 13 26-0115)*

34 71 13 26-0141	EA	Box Beam Guide Rail End Cover Plate	95.36	9.66
34 71 13 26-0142	EA	Box Beam Guide Rail End Cover Plate (Rustic)	102.24	9.66

34 71 13 26-0143 Box Beam Guide Railing Repair, And Resetting *(34 71 13 26-0115)*

Note: For existing guide rail.

34 71 13 26-0144	LF	Removal And Storage Of Box Beam Guide Rail And Post	4.24	
34 71 13 26-0145	LF	Reset Box Beam Guide Rail	12.38	

34 71 13 26-0146 6" x 8" Box Beam Median Barrier *(34 71 13 26)*

34 71 13 26-0147 Box Beam Median Barrier, 6" x 8" *(34 71 13 26-0146)*

34 71 13 26-0148 Straight Sections, Box Beam Median Barrier *(34 71 13 26-0147)*

34 71 13 26-0149	LF	Box Beam Median Barrier Galvanized Excludes Splices	78.87	9.66
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0150	LF	Box Beam Median Barrier (Rustic) Excludes Splices	85.16	9.66
		For Flush Mounting Directly To Structure, Add	*1.83*	

34 71 13 26-0151 Shop Curved, Box Beam Median Barrier *(34 71 13 26-0147)*

34 71 13 26-0152	LF	Shop Curved Box Beam Median Barrier Galvanized Note: Excludes splices.	95.39	9.66
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	
34 71 13 26-0153	LF	Shop Curved Box Beam Median Barrier Rustic Note: Excludes splices.	116.02	9.66
		For Shop Curved At <20' Radius, Add	*2.44*	
		For Flush Mounting Directly To Structure, Add	*1.83*	

34 71 13 26-0154 Box Beam Median Barrier End Treatment Sections *(34 71 13 26-0146)*

Note: Includes rail, end cover plate and hardware. Excludes posts.

34 71 13 26-0155	EA	Box Beam Median Barrier Type A End Treatment Section, Galvanized Note: Excludes splices and post.	2,373.05	32.19
34 71 13 26-0156	EA	Box Beam Median Barrier Type A End Treatment Section (Rustic) Note: Excludes splices and post.	2,428.03	32.19
34 71 13 26-0157	EA	Box Beam Median Barrier Type B End Treatment Section, Galvanized Note: Excludes splices and post.	2,373.05	32.19
34 71 13 26-0158	EA	Box Beam Median Barrier Type B End Treatment Section (Rustic) Note: Excludes splices and post.	2,428.03	32.19

34 71 13 26-0159 Splices For Box Beam Median Barrier *(34 71 13 26-0146)*

34 71 13 26-0160	EA	Splice for Box Beam Median Barrier	185.56	25.75
34 71 13 26-0161	EA	Splice for Box Beam Median Barrier (Rustic)	288.66	25.75

34 71 13 26-0162 Box Beam Median Barrier Posts Driven With Soil Plate *(34 71 13 26-0146)*

Note: Includes all associated hardware.

34 71 13 26-0163	EA	Standard Post for Box Beam Median Barrier	173.88	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0164	EA	Standard Post (Rustic) for Box Beam Median Barrier	180.75	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0165	EA	Extra Long Post for Box Beam Median Barrier	187.62	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0166	EA	Extra Long Post (Rustic) for Box Beam Median Barrier	194.50	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0167	EA	Type B End Treatment or Rub Back Anchor Post for Box Beam Note: For median barrier.	160.13	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0168	EA	Type B End Treatment or Rub Back Anchor Post (Rustic) Note: For box beam median barrier.	160.13	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0169	EA	Type I End Assembly Post for Box Beam Median Barrier to Concrete Note: For median barrier transition.	187.62	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	
34 71 13 26-0170	EA	Type I End Assembly Post (Rustic) for Box Beam Median Barrier Note: For Concrete median barrier transition.	194.50	47.93
		For Installation Without Soil Plate, Deduct	*-5.00*	
		For Installation In Rock, Add	*12.78*	

34 71 13 26-0171 Box Beam Median Barrier Accessories *(34 71 13 26-0146)*

34 71 13 26-0172	EA	Box Beam Median Barrier End Cover Plate	120.26	22.66
34 71 13 26-0173	EA	Box Beam Median Barrier End Cover Plate (Rustic)	127.13	22.66

34 71 13 26-0174 Box Beam Median Barrier Repair, And Resetting *(34 71 13 26-0146)*

Note: For existing guide rail.

34 71 13 26-0175	LF	Removal And Storage Of Box Beam Median Barrier and Posts	4.39	
34 71 13 26-0176	LF	Reset Box Beam Median Barrier	12.95	

34 71 13 26-0177 Universal Guide Rail Items *(34 71 13 26)*

34 71 13 26-0178 Guide Rail Concrete Anchor Units For All Types Of Guide Rail *(34 71 13 26-0177)*

Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.

34 71 13 26-0179	CY	Guide Rail Concrete Anchor Unit	686.61	
		For Each Additional Set Of Anchor Rods, Add	*38.00*	
34 71 13 26-0180	EA	Reset Existing Anchorage Unit for All Types of Guide Rail Note: Includes excavation and backfill.	492.25	
34 71 13 26-0181	EA	Removal Of Guide Rail Concrete Anchor Unit	521.66	

34 71 13 26-0182 Guide Rail Repair For All Types Of Existing Guide Rail *(34 71 13 26-0177)*

Note: All tasks include associated hardware.

34 71 13 26-0183	EA	Straighten And Reset Driven Post For Guide Rail	63.90	
34 71 13 26-0184	EA	Straighten And Reset Post Mounted On Concrete For Guide Rail Note: With base plate for guide rail. Includes new anchor bolts.	73.80	

34 71 13 26-0185 Additional Wood and Steel Posts *(34 71 13 26-0177)*

34 71 13 26-0186	LF	4" x 6" Wood Post	54.00	16.01
		For Installation In Rock, Add	*4.27*	
34 71 13 26-0187	LF	6" x 8" Wood Post	64.31	16.01
		For Installation In Rock, Add	*4.27*	
34 71 13 26-0188	LF	6" x 7/8" Galvanized Steel Post	40.82	16.01
		For Installation In Rock, Add	*4.27*	
34 71 13 26-0189	EA	Base Plate With Anchor Bolts For Mounting Post On Concrete	372.70	16.01

34 71 13 26-0190 Accessories For All Types of Guide Rail *(34 71 13 26-0177)*

34 71 13 26-0191	EA	Reflector For Guard Rail	44.85	

34 71 13 26-0192 Guide Rail Transitions *(34 71 13 26)*

34 71 13 26-0193 Transition Box Beam Guide Rail To Corrugated Beam *(34 71 13 26-0192)*

34 71 13 26-0194	EA	Box Beam To Corrugated Beam Rail Bolted Section	699.13	
34 71 13 26-0195	EA	Box Beam To Corrugated Beam Rail Bolted Plate Note: For making cable connections.	424.19	

34 71 13 26-0196 Transition Box Beam Median Barrier To Corrugated Beam Median *(34 71 13 26-0192)*

34 71 13 26-0197	EA	Box Beam Median Barrier To Corrugated Beam Bolted Section	712.88	
34 71 13 26-0198	EA	Box Beam Median Barrier To Corrugated Beam Harness Plate Note: For making cable connections.	424.19	

34 71 13 26-0199 Transition Box Beam Guide Rail To Cable Guide Rail *(34 71 13 26-0192)*

34 71 13 26-0200	EA	Box Beam to Cable Guide Rail U-bolt And Plate	97.41	17.16

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0201		**Transition Box Beam Median Barrier To Concrete Median Barrier** *(34 71 13 26-0192)*		
34 71 13 26-0202	EA	Box Beam Median Barrier To Concrete Barrier End Connection	974.07	
34 71 13 26-0203		**Transition Thrie Beam To Concrete Median Barrier** *(34 71 13 26-0192)*		
34 71 13 26-0204	EA	Thrie Beam Terminal Connector At Concrete Median Barrier	630.40	
34 71 13 26-0205	EA	Thrie Beam Transition Section To Corrugated Beam Guide Rail	802.23	
34 71 13 26-0206		**Resilient Guard Fence And Light Shield** *(34 71 13 26)*		
34 71 13 26-0207	LF	Resilient Guard Fence And Light Shield, Up To 6' High	63.26	6.58
34 71 13 26-0208		**Individual Concrete Guard Rail Posts** *(34 71 13 26)*		
34 71 13 26-0209	EA	6'-5" Concrete Guard Rail Posts, Round	80.91	6.58
34 71 13 26-0210	EA	6'-5" Concrete Posts, Square	90.52	7.39
34 71 13 26-0211	EA	6'-5" Concrete Posts, Triangular	88.16	7.39
34 71 16		**Impact Attenuating Devices** *(34 71)*		
34 71 16 00-0001		**Guard Rail Energy Absorbing Terminals** *(34 71 16)* Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002		**24" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
34 71 16 00-0003	EA	24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	27,619.72	3,217.77
34 71 16 00-0004	EA	24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	38,199.75	4,290.36
34 71 16 00-0005	EA	24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	51,934.20	5,631.09
34 71 16 00-0006	EA	24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	58,359.67	6,971.83
34 71 16 00-0007		**30" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
34 71 16 00-0008	EA	30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	29,878.97	3,619.99
34 71 16 00-0009	EA	30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	41,429.58	4,826.65
34 71 16 00-0010	EA	30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	56,691.83	6,435.54
34 71 16 00-0011	EA	30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	65,287.18	7,776.27
34 71 16 00-0012		**36" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
34 71 16 00-0013	EA	36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	32,160.18	4,022.21
34 71 16 00-0014	EA	36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	44,680.71	5,362.94
34 71 16 00-0015	EA	36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	60,892.68	7,105.91
34 71 16 00-0016	EA	36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	72,191.85	8,580.71
34 71 16 00-0017		**69" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
34 71 16 00-0018	EA	69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	34,886.56	4,424.44
34 71 16 00-0019	EA	69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	48,105.30	5,899.24
34 71 16 00-0020	EA	69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	65,786.03	7,776.27
34 71 16 00-0021	EA	69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	77,663.87	9,385.16
34 71 16 00-0022		**90" Wide Guard Rail Energy Absorbing Terminals** *(34 71 16 00-0001)*		
34 71 16 00-0023	EA	90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	37,677.38	4,826.65
34 71 16 00-0024	EA	90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	51,605.76	6,435.54
34 71 16 00-0025	EA	90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	71,367.67	8,580.71
34 71 16 00-0026	EA	90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	83,270.05	10,189.60
34 71 19		**Vehicle Delineators** *(34 71)*		
34 71 19 16		**Flexible Vehicle Delineators** *(34 71 19)*		
34 71 19 16-0001	EA	2' High, 3" Diameter Flexible Fixed Stanchion Delineator	70.50	8.21
34 71 19 16-0002	EA	3' High, 3" Diameter Flexible Fixed Stanchion Delineator	71.36	8.21
34 71 19 16-0003	EA	3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	72.23	8.21
34 71 19 16-0004	EA	4' High, 3" Diameter Flexible Fixed Stanchion Delineator	73.09	8.21

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction (35)

35 05 70 Common Work Results for Dams (35 05)

35 05 70 00-0001 Rubber Dam Repair (35 05 70)

35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes)	31.05	
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage)	60.87	
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage)	90.00	
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	99.86	

35 20 Waterway and Marine Construction and Equipment (35)

35 22 Hydraulic Gates (35 20)

35 22 26 Sluice Gates (35 22)

35 22 26 00-0001 Heavy Duty Cast Iron Sluice Gates Self Contained (35 22 26)

Note: Includes crank operated geared gate lift, anchor bolts, and grouting.

35 22 26 00-0002	EA	18" x 18" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	9,802.61	1,087.62
		For Electric Motor Operated Valve, Add	*1,067.53*	
35 22 26 00-0003	EA	24" x 24" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	14,029.61	1,631.48
		For Electric Motor Operated Valve, Add	*1,176.30*	
35 22 26 00-0004	EA	30" x 30" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	17,007.85	1,864.56
		For Electric Motor Operated Valve, Add	*1,222.91*	
35 22 26 00-0005	EA	36" x 36" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	19,408.54	2,039.35
		For Electric Motor Operated Valve, Add	*1,257.87*	
35 22 26 00-0006	EA	42" x 42" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	21,775.73	2,330.69
		For Electric Motor Operated Valve, Add	*1,316.14*	
35 22 26 00-0007	EA	48" x 48" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	30,434.15	3,729.10
		For Electric Motor Operated Valve, Add	*1,595.82*	
35 22 26 00-0008	EA	54" x 54" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	40,597.14	4,661.38
		For Electric Motor Operated Valve, Add	*1,782.28*	
35 22 26 00-0009	EA	60" x 60" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	47,246.23	6,176.32
		For Electric Motor Operated Valve, Add	*2,085.27*	
35 22 26 00-0010	EA	66" x 66" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	58,747.87	8,157.41
		For Electric Motor Operated Valve, Add	*2,481.48*	
35 22 26 00-0011	EA	72" x 72" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	61,570.94	9,322.76
		For Electric Motor Operated Valve, Add	*2,714.55*	
35 22 26 00-0012	EA	78" x 78" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	69,232.73	9,322.76
		For Electric Motor Operated Valve, Add	*3,114.55*	
35 22 26 00-0013	EA	84" x 84" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	80,347.98	10,488.10
		For Electric Motor Operated Valve, Add	*3,347.62*	
35 22 26 00-0014	EA	90" x 90" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	96,892.98	12,151.02
		For Electric Motor Operated Valve, Add	*3,680.21*	
35 22 26 00-0015	EA	96" x 96" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	109,365.69	12,729.64
		For Electric Motor Operated Valve, Add	*3,795.93*	
35 22 26 00-0016	EA	108" x 108" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	135,640.83	15,044.12
		For Electric Motor Operated Valve, Add	*4,258.82*	
35 22 26 00-0017	EA	120" x 120" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	167,586.22	18,515.85
		For Electric Motor Operated Valve, Add	*4,953.17*	
35 22 26 00-0018	EA	132" x 132" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate	204,744.04	20,830.33
		For Electric Motor Operated Valve, Add	*5,416.07*	

35 22 59 Hydraulic Closure Gates (35 22)

35 22 59 00-0001 Steel Slide Gates Self Contained (35 22 59)

Note: Includes anchors and bolts.

35 22 59 00-0002	EA	12" x 12" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	3,365.18	407.87
		For Electric Motor Operated Valve, Add	*931.57*	
35 22 59 00-0003	EA	18" x 18" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	4,499.66	466.14
		For Electric Motor Operated Valve, Add	*943.23*	
35 22 59 00-0004	EA	24" x 24" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	5,131.91	543.86
		For Electric Motor Operated Valve, Add	*958.77*	
35 22 59 00-0005	EA	30" x 30" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	6,202.32	652.59
		For Electric Motor Operated Valve, Add	*980.52*	
35 22 59 00-0006	EA	36" x 36" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	7,940.89	815.74
		For Electric Motor Operated Valve, Add	*1,013.15*	
35 22 59 00-0007	EA	42" x 42" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	9,282.57	1,087.62
		For Electric Motor Operated Valve, Add	*1,067.53*	
35 22 59 00-0008	EA	48" x 48" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	12,699.57	1,631.48
		For Electric Motor Operated Valve, Add	*1,176.30*	
35 22 59 00-0009	EA	54" x 54" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	19,361.60	2,039.35
		For Electric Motor Operated Valve, Add	*1,257.87*	
35 22 59 00-0010	EA	60" x 60" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	25,142.36	3,262.96
		For Electric Motor Operated Valve, Add	*1,502.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0011	EA	72" x 72" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting	31,799.41	5,438.31
		For Electric Motor Operated Valve, Add	*1,937.66*	
35 22 59 00-0012	SF	Over 36 SF Steel Slide Gates Self Contained Including Anchor	882.05	150.33
		For Electric Motor Operated Valve, Add	*1,580.07*	

35 22 59 00-0013 Stainless Steel, Slide Gates, Frame Assembly Only *(35 22 59)*

35 22 59 00-0014	EA	24" x 24" Stainless Steel Slide Gate, Frame Assembly Only	12,439.57	532.57
35 22 59 00-0015	EA	30" x 30" Stainless Steel Slide Gate, Frame Assembly Only	15,384.53	665.41
35 22 59 00-0016	EA	36" x 36" Stainless Steel Slide Gate, Frame Assembly Only	19,600.34	811.08
35 22 59 00-0017	EA	48" x 48" Stainless Steel Slide Gate, Frame Assembly Only	30,079.13	1,553.41
35 22 59 00-0018	EA	60" x 60" Stainless Steel Slide Gate, Frame Assembly Only	44,879.86	3,389.99
35 22 59 00-0019	EA	72" x 72" Stainless Steel Slide Gate, Frame Assembly Only	59,334.47	5,178.79
35 22 59 00-0020	EA	84" x 84" Stainless Steel Slide Gate, Frame Assembly Only	88,946.82	6,474.65
35 22 59 00-0021	Day	Start Up And Training, Stainless Steel Slide Gate, Frame Assembly	2,279.62	

35 22 59 00-0022 Aluminum Flap Gates *(35 22 59)*

35 22 59 00-0023	EA	18" Diameter Aluminum Flap Gates	2,988.02	407.87
		For Electric Motor Operated Valve, Add	*931.57*	
35 22 59 00-0024	EA	20" Diameter Aluminum Flap Gates	3,324.06	437.01
		For Electric Motor Operated Valve, Add	*937.40*	
35 22 59 00-0025	EA	24" Diameter Aluminum Flap Gates	3,657.15	466.14
		For Electric Motor Operated Valve, Add	*943.23*	
35 22 59 00-0026	EA	30" Diameter Aluminum Flap Gates	4,949.93	543.86
		For Electric Motor Operated Valve, Add	*958.77*	
35 22 59 00-0027	EA	36" Diameter Aluminum Flap Gates	6,134.46	652.59
		For Electric Motor Operated Valve, Add	*980.52*	
35 22 59 00-0028	EA	42" Diameter Aluminum Flap Gates	8,673.04	815.74
		For Electric Motor Operated Valve, Add	*1,013.15*	
35 22 59 00-0029	EA	48" Diameter Aluminum Flap Gates	10,979.03	1,087.62
		For Electric Motor Operated Valve, Add	*1,067.53*	
35 22 59 00-0030	EA	54" Diameter Aluminum Flap Gates	14,225.03	1,631.48
		For Electric Motor Operated Valve, Add	*1,176.30*	
35 22 59 00-0031	EA	60" Diameter Aluminum Flap Gates	18,820.42	2,330.69
		For Electric Motor Operated Valve, Add	*1,316.14*	
35 22 59 00-0032	EA	66" Diameter Aluminum Flap Gates	24,361.21	3,262.96
		For Electric Motor Operated Valve, Add	*1,502.59*	
35 22 59 00-0033	EA	72" Diameter Aluminum Flap Gates	30,435.62	4,661.38
		For Electric Motor Operated Valve, Add	*1,782.28*	

35 22 59 00-0034 Stainless Steel Flap Gates *(35 22 59)*

35 22 59 00-0035	EA	12" x 12" Stainless Steel Flap Gate	5,094.08	349.60
		For Electric Motor Operated Valve, Add	*919.92*	
35 22 59 00-0036	EA	18" x 18" Stainless Steel Flap Gate	6,506.39	407.87
		For Electric Motor Operated Valve, Add	*931.57*	
35 22 59 00-0037	EA	24" x 24" Stainless Steel Flap Gate	8,356.63	466.14
		For Electric Motor Operated Valve, Add	*943.23*	
35 22 59 00-0038	EA	30" x 30" Stainless Steel Flap Gate	10,848.02	544.21
		For Electric Motor Operated Valve, Add	*958.77*	
35 22 59 00-0039	EA	36" x 36" Stainless Steel Flap Gate	16,024.34	652.59
		For Electric Motor Operated Valve, Add	*980.52*	
35 22 59 00-0040	EA	48" x 48" Stainless Steel Flap Gate	23,537.76	1,087.27
		For Electric Motor Operated Valve, Add	*1,067.53*	
35 22 59 00-0041	EA	60" x 60" Stainless Steel Flap Gate	36,390.09	2,330.69
		For Electric Motor Operated Valve, Add	*1,316.14*	
35 22 59 00-0042	EA	72" x 72" Stainless Steel Flap Gate	53,391.41	4,661.38
		For Electric Motor Operated Valve, Add	*1,782.28*	
35 22 59 00-0043	EA	84" x 84" Stainless Steel Flap Gate	78,057.21	9,322.76
		For Electric Motor Operated Valve, Add	*2,714.55*	

35 22 59 00-0044 Cast Iron Flap Gates *(35 22 59)*

35 22 59 00-0045	EA	12" x 12" Cast Iron Flap Gate	8,945.66	437.01
		For Electric Motor Operated Valve, Add	*937.40*	
35 22 59 00-0046	EA	18" x 18" Cast Iron Flap Gate	12,519.76	510.42
		For Electric Motor Operated Valve, Add	*951.97*	
35 22 59 00-0047	EA	24" x 24" Cast Iron Flap Gate	15,952.89	582.67
		For Electric Motor Operated Valve, Add	*966.54*	
35 22 59 00-0048	EA	30" x 30" Cast Iron Flap Gate	22,308.08	679.40
		For Electric Motor Operated Valve, Add	*985.96*	
35 22 59 00-0049	EA	36" x 36" Cast Iron Flap Gate	25,213.55	815.74
		For Electric Motor Operated Valve, Add	*1,013.15*	
35 22 59 00-0050	EA	48" x 48" Cast Iron Flap Gate	31,499.35	1,359.95
		For Electric Motor Operated Valve, Add	*1,121.92*	
35 22 59 00-0051	EA	60" x 60" Cast Iron Flap Gate	54,040.37	2,563.75
		For Electric Motor Operated Valve, Add	*1,362.75*	
35 22 59 00-0052	EA	72" x 72" Cast Iron Flap Gate	86,509.22	5,010.98
		For Electric Motor Operated Valve, Add	*1,852.20*	
35 22 59 00-0053	EA	84" x 84" Cast Iron Flap Gate	102,363.98	9,788.89
		For Electric Motor Operated Valve, Add	*2,807.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0054		**Steel Knife Gates Including Handwheel Operator** *(35 22 59)*		
		Note: ANSI 150 PSI. for hub, flange, or spigot ends.		
35 22 59 00-0055	EA	6" Diameter Knife Gates Including Handwheel Operator For Hub	1,726.67	148.05
		For Electric Motor Operated Valve, Add	*879.61*	
35 22 59 00-0056	EA	8" Diameter Knife Gates Including Handwheel Operator For Hub	2,321.90	172.69
		For Electric Motor Operated Valve, Add	*884.55*	
35 22 59 00-0057	EA	10" Diameter Knife Gates Including Handwheel Operator For Hub	3,262.61	259.09
		For Electric Motor Operated Valve, Add	*901.82*	
35 22 59 00-0058	EA	12" Diameter Knife Gates Including Handwheel Operator For Hub	4,075.34	345.48
		For Electric Motor Operated Valve, Add	*919.09*	
35 22 59 00-0059	EA	14" Diameter Knife Gates Including Handwheel Operator For Hub	4,994.32	370.13
		For Electric Motor Operated Valve, Add	*924.03*	
35 22 59 00-0060	EA	16" Diameter Knife Gates Including Handwheel Operator For Hub	6,466.77	398.57
		For Electric Motor Operated Valve, Add	*929.72*	
35 22 59 00-0061	EA	18" Diameter Knife Gates Including Handwheel Operator For Hub	8,599.35	414.54
		For Electric Motor Operated Valve, Add	*932.91*	
35 22 59 00-0062	EA	20" Diameter Knife Gates Including Handwheel Operator For Hub	10,752.85	471.11
		For Electric Motor Operated Valve, Add	*944.21*	
35 22 59 00-0063	EA	24" Diameter Knife Gates Including Handwheel Operator For Hub	13,787.28	518.17
		For Electric Motor Operated Valve, Add	*953.64*	
35 22 59 00-0064	EA	30" Diameter Knife Gates Including Handwheel Operator For Hub	25,099.19	690.86
		For Electric Motor Operated Valve, Add	*988.18*	
35 22 59 00-0065	EA	36" Diameter Knife Gates Including Handwheel Operator For Hub	33,390.95	1,036.36
		For Electric Motor Operated Valve, Add	*1,057.27*	
35 22 59 00-0066		**Steel Hollow Jet Flow Gate Valve** *(35 22 59)*		
35 22 59 00-0067	EA	6" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	1,609.15	163.15
		For Electric Motor Operated Valve, Add	*882.63*	
35 22 59 00-0068	EA	8" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	2,492.33	190.53
		For Electric Motor Operated Valve, Add	*888.11*	
35 22 59 00-0069	EA	10" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	2,992.07	285.51
		For Electric Motor Operated Valve, Add	*907.10*	
35 22 59 00-0070	EA	12" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	3,814.36	380.49
		For Electric Motor Operated Valve, Add	*926.11*	
35 22 59 00-0071	EA	14" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	5,743.56	407.87
		For Electric Motor Operated Valve, Add	*931.57*	
35 22 59 00-0072	EA	16" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	6,928.38	439.34
		For Electric Motor Operated Valve, Add	*937.87*	
35 22 59 00-0073	EA	18" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	11,649.80	456.82
		For Electric Motor Operated Valve, Add	*941.37*	
35 22 59 00-0074	EA	20" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	14,652.60	519.16
		For Electric Motor Operated Valve, Add	*953.84*	
35 22 59 00-0075	EA	24" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	21,075.95	571.02
		For Electric Motor Operated Valve, Add	*964.22*	
35 22 59 00-0076	EA	30" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	25,816.59	761.56
		For Electric Motor Operated Valve, Add	*1,002.30*	
35 22 59 00-0077	EA	36" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	36,840.00	1,142.04
		For Electric Motor Operated Valve, Add	*1,078.37*	
35 22 59 00-0078	EA	42" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	43,905.25	1,398.41
		For Electric Motor Operated Valve, Add	*1,529.75*	
35 22 59 00-0079	EA	48" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	52,063.75	1,631.48
		For Electric Motor Operated Valve, Add	*1,576.30*	
35 22 59 00-0080	EA	54" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	68,567.11	2,039.35
		For Electric Motor Operated Valve, Add	*1,657.87*	
35 22 59 00-0081	EA	60" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	76,361.89	2,447.22
		For Electric Motor Operated Valve, Add	*1,739.64*	
35 22 59 00-0082	EA	66" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub	97,443.98	3,379.50
		For Electric Motor Operated Valve, Add	*1,926.40*	
35 22 59 00-0083		**Steel Dish Head Valve** *(35 22 59)*		
35 22 59 00-0084	EA	12" Diameter Dish Head Valve	2,038.39	407.87
35 22 59 00-0085	EA	18" Diameter Dish Head Valve	2,944.46	466.14
35 22 59 00-0086	EA	20" Diameter Dish Head Valve	3,391.69	509.84
35 22 59 00-0087	EA	24" Diameter Dish Head Valve	3,997.65	543.86
35 22 59 00-0088	EA	30" Diameter Dish Head Valve	6,001.79	652.59
35 22 59 00-0089	EA	36" Diameter Dish Head Valve	7,397.34	815.74
35 22 59 00-0090	EA	42" Diameter Dish Head Valve	12,407.68	1,087.62
35 22 59 00-0091	EA	48" Diameter Dish Head Valve	16,238.40	1,631.48
35 22 59 00-0092	EA	54" Diameter Dish Head Valve	23,077.16	2,039.35
35 22 59 00-0093	EA	60" Diameter Dish Head Valve	29,679.60	3,262.96
35 22 59 00-0094	EA	66" Diameter Dish Head Valve	41,092.29	4,078.70
35 22 59 00-0095	EA	72" Diameter Dish Head Valve	50,055.52	5,438.31
35 22 63		**Through-Levee Access Gates** *(35 22)*		
35 22 63 00-0001		**Cast Iron Canal Gates** *(35 22 63)*		
35 22 63 00-0002	EA	12" Diameter Cast Iron Canal Gates With Fabricated Frame	1,816.90	407.87
		For Electric Motor Operated Valve, Add	*931.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 63 00-0003	EA	18" Diameter Cast Iron Canal Gates With Fabricated Frame	2,579.94	466.14
		For Electric Motor Operated Valve, Add	*943.23*	
35 22 63 00-0004	EA	20" Diameter Cast Iron Canal Gates With Fabricated Frame	2,937.76	509.84
		For Electric Motor Operated Valve, Add	*951.97*	
35 22 63 00-0005	EA	24" Diameter Cast Iron Canal Gates With Fabricated Frame	3,470.48	543.86
		For Electric Motor Operated Valve, Add	*958.77*	
35 22 63 00-0006	EA	30" Diameter Cast Iron Canal Gates With Fabricated Frame	5,150.97	652.59
		For Electric Motor Operated Valve, Add	*980.52*	
35 22 63 00-0007	EA	36" Diameter Cast Iron Canal Gates With Fabricated Frame	6,352.82	815.74
		For Electric Motor Operated Valve, Add	*1,013.15*	
35 22 63 00-0008	EA	42" Diameter Cast Iron Canal Gates With Fabricated Frame	10,554.02	1,087.62
		For Electric Motor Operated Valve, Add	*1,067.53*	
35 22 63 00-0009	EA	48" Diameter Cast Iron Canal Gates With Fabricated Frame	13,887.82	1,631.48
		For Electric Motor Operated Valve, Add	*1,176.30*	
35 22 63 00-0010	EA	54" Diameter Cast Iron Canal Gates With Fabricated Frame	19,635.47	2,039.35
		For Electric Motor Operated Valve, Add	*1,257.87*	
35 22 63 00-0011	EA	60" Diameter Cast Iron Canal Gates With Fabricated Frame	25,485.16	3,262.96
		For Electric Motor Operated Valve, Add	*1,502.59*	
35 22 63 00-0012	EA	66" Diameter Cast Iron Canal Gates With Fabricated Frame	35,125.92	4,078.70
		For Electric Motor Operated Valve, Add	*1,665.74*	
35 22 63 00-0013	EA	72" Diameter Cast Iron Canal Gates With Fabricated Frame	41,404.21	4,661.38
		For Electric Motor Operated Valve, Add	*1,782.28*	

35 24 Dredging *(35 20)*

35 24 23 Clamshell Dredging *(35 24)*

35 24 23 00-0001 Dredging, Barge Mounted *(35 24 23)*

See CSI section 01 74 19 00-0037 for hauling material from shore or barge, 31 23 16 33-0019 for loading.

35 24 23 00-0002	EA	Dredge Excavation Mobilization And Demobilization	21,766.38
		For Inlet Rivers And Canals, Deduct	*-5,441.60*
35 24 23 00-0003	CY	Barge Mounted Clamshell Excavation Into Scows, Dumping Up To 10 Miles Note: Includes tugboat to move scows or barge.	24.19
35 24 23 00-0004	CY	Barge Mounted Dragline Or Clamshell, Hopper Dumped, Pumped 1,000' To Shore Note: Includes tugboat to move barge.	21.76
35 24 23 00-0005	CY	Hydraulic Dredge Excavation Into Scows, Dumping Up To 10 Miles Note: Includes tugboat to move scows or barge.	24.09
35 24 23 00-0006	CY	Hydraulic Dredge Excavation, Pumped 1,000' To Shore Note: Includes tugboat to move barge.	20.21

35 24 26 Backhoe/Dipper Dredging *(35 24)*

35 24 26 00-0001 Dredging, Shoreline Excavators *(35 24 26)*

35 24 26 00-0002	CY	Back Hoe, 1 CY Bucket, Dredging From Shore	13.99
35 24 26 00-0003	CY	Hydraulic Excavator, 2 CY Bucket, Dredging From Shore	9.48

END OF SECTION 35

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

40 Process Interconnections

40 05 Common Work Results For Process Interconnections *(40)*

40 05 19 Ductile Iron Process Pipe *(40 05)*

40 05 19 00-0001 Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping *(40 05 19)*

Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-2059 for bolts, 40 05 19 00-2074 for gaskets.

40 05 19 00-0002 Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0001)*

40 05 19 00-0003 4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0004	EA	4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	566.26	199.61
		For Class 52 Rating, Deduct	*-29.02*	
		For Class 54 Rating, Add	*19.79*	
		For Class 55 Rating, Add	*43.98*	
40 05 19 00-0005	EA	4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	599.78	203.10
		For Class 52 Rating, Deduct	*-32.13*	
		For Class 54 Rating, Add	*21.90*	
		For Class 55 Rating, Add	*48.68*	
40 05 19 00-0006	EA	4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	633.30	206.59
		For Class 52 Rating, Deduct	*-35.23*	
		For Class 54 Rating, Add	*24.02*	
		For Class 55 Rating, Add	*53.39*	
40 05 19 00-0007	EA	4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	666.81	210.08
		For Class 52 Rating, Deduct	*-38.34*	
		For Class 54 Rating, Add	*26.14*	
		For Class 55 Rating, Add	*58.09*	
40 05 19 00-0008	EA	4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	700.33	213.57
		For Class 52 Rating, Deduct	*-41.44*	
		For Class 54 Rating, Add	*28.25*	
		For Class 55 Rating, Add	*62.80*	
40 05 19 00-0009	EA	4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	733.84	217.06
		For Class 52 Rating, Deduct	*-44.55*	
		For Class 54 Rating, Add	*30.37*	
		For Class 55 Rating, Add	*67.51*	
40 05 19 00-0010	EA	4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	767.36	220.55
		For Class 52 Rating, Deduct	*-47.65*	
		For Class 54 Rating, Add	*32.49*	
		For Class 55 Rating, Add	*72.21*	
40 05 19 00-0011	EA	4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	800.87	224.05
		For Class 52 Rating, Deduct	*-50.76*	
		For Class 54 Rating, Add	*34.61*	
		For Class 55 Rating, Add	*76.92*	
40 05 19 00-0012	EA	4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	834.39	227.54
		For Class 52 Rating, Deduct	*-53.86*	
		For Class 54 Rating, Add	*36.72*	
		For Class 55 Rating, Add	*81.62*	
40 05 19 00-0013	EA	4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	867.90	231.03
		For Class 52 Rating, Deduct	*-56.97*	
		For Class 54 Rating, Add	*38.84*	
		For Class 55 Rating, Add	*86.33*	
40 05 19 00-0014	EA	4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	901.42	234.52
		For Class 52 Rating, Deduct	*-60.07*	
		For Class 54 Rating, Add	*40.96*	
		For Class 55 Rating, Add	*91.03*	
40 05 19 00-0015	EA	4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	934.93	238.00
		For Class 52 Rating, Deduct	*-63.18*	
		For Class 54 Rating, Add	*43.07*	
		For Class 55 Rating, Add	*95.74*	
40 05 19 00-0016	EA	4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	968.45	241.49
		For Class 52 Rating, Deduct	*-66.28*	
		For Class 54 Rating, Add	*45.19*	
		For Class 55 Rating, Add	*100.45*	
40 05 19 00-0017	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,001.97	244.98
		For Class 52 Rating, Deduct	*-69.39*	
		For Class 54 Rating, Add	*47.31*	
		For Class 55 Rating, Add	*105.15*	
40 05 19 00-0018	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,035.48	248.47
		For Class 52 Rating, Deduct	*-72.49*	
		For Class 54 Rating, Add	*49.43*	
		For Class 55 Rating, Add	*109.86*	
40 05 19 00-0019	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,069.00	251.96
		For Class 52 Rating, Deduct	*-75.60*	
		For Class 54 Rating, Add	*51.54*	
		For Class 55 Rating, Add	*114.56*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0020	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,102.51	255.45
		For Class 52 Rating, Deduct	*-78.70*	
		For Class 54 Rating, Add	*53.66*	
		For Class 55 Rating, Add	*119.27*	
40 05 19 00-0021	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,136.03	258.94
		For Class 52 Rating, Deduct	*-81.81*	
		For Class 54 Rating, Add	*55.78*	
		For Class 55 Rating, Add	*123.97*	
40 05 19 00-0022	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,169.54	262.43
		For Class 52 Rating, Deduct	*-84.91*	
		For Class 54 Rating, Add	*57.89*	
		For Class 55 Rating, Add	*128.68*	
40 05 19 00-0023	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,203.06	265.92
		For Class 52 Rating, Deduct	*-88.02*	
		For Class 54 Rating, Add	*60.01*	
		For Class 55 Rating, Add	*133.39*	
40 05 19 00-0024	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,236.57	269.41
		For Class 52 Rating, Deduct	*-91.12*	
		For Class 54 Rating, Add	*62.13*	
		For Class 55 Rating, Add	*138.09*	
40 05 19 00-0025	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,270.09	272.90
		For Class 52 Rating, Deduct	*-94.23*	
		For Class 54 Rating, Add	*64.25*	
		For Class 55 Rating, Add	*142.80*	
40 05 19 00-0026	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,303.61	276.39
		For Class 52 Rating, Deduct	*-97.33*	
		For Class 54 Rating, Add	*66.36*	
		For Class 55 Rating, Add	*147.50*	
40 05 19 00-0027	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,337.12	279.88
		For Class 52 Rating, Deduct	*-100.44*	
		For Class 54 Rating, Add	*68.48*	
		For Class 55 Rating, Add	*152.21*	
40 05 19 00-0028	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,370.63	283.36
		For Class 52 Rating, Deduct	*-103.54*	
		For Class 54 Rating, Add	*70.60*	
		For Class 55 Rating, Add	*156.91*	
40 05 19 00-0029	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,404.15	286.85
		For Class 52 Rating, Deduct	*-106.65*	
		For Class 54 Rating, Add	*72.71*	
		For Class 55 Rating, Add	*161.62*	
40 05 19 00-0030	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,437.67	290.35
		For Class 52 Rating, Deduct	*-109.75*	
		For Class 54 Rating, Add	*74.83*	
		For Class 55 Rating, Add	*166.32*	
40 05 19 00-0031	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,471.18	293.84
		For Class 52 Rating, Deduct	*-112.86*	
		For Class 54 Rating, Add	*76.95*	
		For Class 55 Rating, Add	*171.03*	
40 05 19 00-0032	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,504.69	297.33
		For Class 52 Rating, Deduct	*-115.96*	
		For Class 54 Rating, Add	*79.07*	
		For Class 55 Rating, Add	*175.74*	
40 05 19 00-0033	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,538.20	300.82
		For Class 52 Rating, Deduct	*-119.07*	
		For Class 54 Rating, Add	*81.18*	
		For Class 55 Rating, Add	*180.44*	
40 05 19 00-0034	EA	4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,571.72	304.31
		For Class 52 Rating, Deduct	*-122.17*	
		For Class 54 Rating, Add	*83.30*	
		For Class 55 Rating, Add	*185.15*	
40 05 19 00-0035	EA	4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,605.24	307.80
		For Class 52 Rating, Deduct	*-125.28*	
		For Class 54 Rating, Add	*85.42*	
		For Class 55 Rating, Add	*189.85*	
40 05 19 00-0036	EA	4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,638.75	311.29
		For Class 52 Rating, Deduct	*-128.38*	
		For Class 54 Rating, Add	*87.53*	
		For Class 55 Rating, Add	*194.56*	
40 05 19 00-0037	EA	4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,672.26	314.78
		For Class 52 Rating, Deduct	*-131.49*	
		For Class 54 Rating, Add	*89.65*	
		For Class 55 Rating, Add	*199.26*	
40 05 19 00-0038	EA	4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,705.78	318.27
		For Class 52 Rating, Deduct	*-134.59*	
		For Class 54 Rating, Add	*91.77*	
		For Class 55 Rating, Add	*203.97*	
40 05 19 00-0039	EA	4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,739.30	321.76
		For Class 52 Rating, Deduct	*-137.70*	
		For Class 54 Rating, Add	*93.88*	
		For Class 55 Rating, Add	*208.67*	
40 05 19 00-0040	EA	4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,772.81	325.25
		For Class 52 Rating, Deduct	*-140.80*	
		For Class 54 Rating, Add	*96.00*	
		For Class 55 Rating, Add	*213.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0041	EA	4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,806.32	328.73
		For Class 52 Rating, Deduct	*-143.91*	
		For Class 54 Rating, Add	*98.12*	
		For Class 55 Rating, Add	*218.08*	
40 05 19 00-0042	EA	4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,839.84	332.22
		For Class 52 Rating, Deduct	*-147.01*	
		For Class 54 Rating, Add	*100.24*	
		For Class 55 Rating, Add	*222.79*	

40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0044	EA	6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	716.18	251.26
		For Class 52 Rating, Deduct	*-36.90*	
		For Class 54 Rating, Add	*25.16*	
		For Class 55 Rating, Add	*55.92*	
40 05 19 00-0045	EA	6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	756.21	254.75
		For Class 52 Rating, Deduct	*-40.72*	
		For Class 54 Rating, Add	*27.77*	
		For Class 55 Rating, Add	*61.72*	
40 05 19 00-0046	EA	6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	796.24	258.24
		For Class 52 Rating, Deduct	*-44.55*	
		For Class 54 Rating, Add	*30.37*	
		For Class 55 Rating, Add	*67.51*	
40 05 19 00-0047	EA	6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	836.26	261.73
		For Class 52 Rating, Deduct	*-48.37*	
		For Class 54 Rating, Add	*32.98*	
		For Class 55 Rating, Add	*73.30*	
40 05 19 00-0048	EA	6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	876.29	265.22
		For Class 52 Rating, Deduct	*-52.19*	
		For Class 54 Rating, Add	*35.58*	
		For Class 55 Rating, Add	*79.09*	
40 05 19 00-0049	EA	6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	916.32	268.71
		For Class 52 Rating, Deduct	*-56.01*	
		For Class 54 Rating, Add	*38.19*	
		For Class 55 Rating, Add	*84.88*	
40 05 19 00-0050	EA	6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	956.36	272.20
		For Class 52 Rating, Deduct	*-59.83*	
		For Class 54 Rating, Add	*40.79*	
		For Class 55 Rating, Add	*90.67*	
40 05 19 00-0051	EA	6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	996.39	275.69
		For Class 52 Rating, Deduct	*-63.65*	
		For Class 54 Rating, Add	*43.40*	
		For Class 55 Rating, Add	*96.46*	
40 05 19 00-0052	EA	6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,036.41	279.18
		For Class 52 Rating, Deduct	*-67.48*	
		For Class 54 Rating, Add	*46.01*	
		For Class 55 Rating, Add	*102.26*	
40 05 19 00-0053	EA	6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,076.44	282.67
		For Class 52 Rating, Deduct	*-71.30*	
		For Class 54 Rating, Add	*48.61*	
		For Class 55 Rating, Add	*108.05*	
40 05 19 00-0054	EA	6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,116.47	286.16
		For Class 52 Rating, Deduct	*-75.12*	
		For Class 54 Rating, Add	*51.22*	
		For Class 55 Rating, Add	*113.84*	
40 05 19 00-0055	EA	6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,156.50	289.66
		For Class 52 Rating, Deduct	*-78.94*	
		For Class 54 Rating, Add	*53.82*	
		For Class 55 Rating, Add	*119.63*	
40 05 19 00-0056	EA	6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,196.54	293.14
		For Class 52 Rating, Deduct	*-82.76*	
		For Class 54 Rating, Add	*56.43*	
		For Class 55 Rating, Add	*125.42*	
40 05 19 00-0057	EA	6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,236.56	296.63
		For Class 52 Rating, Deduct	*-86.58*	
		For Class 54 Rating, Add	*59.03*	
		For Class 55 Rating, Add	*131.21*	
40 05 19 00-0058	EA	6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,276.59	300.12
		For Class 52 Rating, Deduct	*-90.40*	
		For Class 54 Rating, Add	*61.64*	
		For Class 55 Rating, Add	*137.00*	
40 05 19 00-0059	EA	6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,316.62	303.61
		For Class 52 Rating, Deduct	*-94.23*	
		For Class 54 Rating, Add	*64.25*	
		For Class 55 Rating, Add	*142.80*	
40 05 19 00-0060	EA	6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,356.65	307.10
		For Class 52 Rating, Deduct	*-98.05*	
		For Class 54 Rating, Add	*66.85*	
		For Class 55 Rating, Add	*148.59*	
40 05 19 00-0061	EA	6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,396.67	310.59
		For Class 52 Rating, Deduct	*-101.87*	
		For Class 54 Rating, Add	*69.46*	
		For Class 55 Rating, Add	*154.38*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0062	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,436.71	314.08
		For Class 52 Rating, Deduct	*-105.69*	
		For Class 54 Rating, Add	*72.06*	
		For Class 55 Rating, Add	*160.17*	
40 05 19 00-0063	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,476.74	317.57
		For Class 52 Rating, Deduct	*-109.51*	
		For Class 54 Rating, Add	*74.67*	
		For Class 55 Rating, Add	*165.96*	
40 05 19 00-0064	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,516.77	321.06
		For Class 52 Rating, Deduct	*-113.33*	
		For Class 54 Rating, Add	*77.27*	
		For Class 55 Rating, Add	*171.75*	
40 05 19 00-0065	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,556.79	324.55
		For Class 52 Rating, Deduct	*-117.16*	
		For Class 54 Rating, Add	*79.88*	
		For Class 55 Rating, Add	*177.54*	
40 05 19 00-0066	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,596.81	328.04
		For Class 52 Rating, Deduct	*-120.98*	
		For Class 54 Rating, Add	*82.48*	
		For Class 55 Rating, Add	*183.33*	
40 05 19 00-0067	EA	6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,636.85	331.53
		For Class 52 Rating, Deduct	*-124.80*	
		For Class 54 Rating, Add	*85.09*	
		For Class 55 Rating, Add	*189.13*	
40 05 19 00-0068	EA	6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,676.88	335.02
		For Class 52 Rating, Deduct	*-128.62*	
		For Class 54 Rating, Add	*87.70*	
		For Class 55 Rating, Add	*194.92*	
40 05 19 00-0069	EA	6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,716.91	338.50
		For Class 52 Rating, Deduct	*-132.44*	
		For Class 54 Rating, Add	*90.30*	
		For Class 55 Rating, Add	*200.71*	
40 05 19 00-0070	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,756.93	341.99
		For Class 52 Rating, Deduct	*-136.26*	
		For Class 54 Rating, Add	*92.91*	
		For Class 55 Rating, Add	*206.50*	
40 05 19 00-0071	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,796.96	345.48
		For Class 52 Rating, Deduct	*-140.09*	
		For Class 54 Rating, Add	*95.51*	
		For Class 55 Rating, Add	*212.29*	
40 05 19 00-0072	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,836.99	348.97
		For Class 52 Rating, Deduct	*-143.91*	
		For Class 54 Rating, Add	*98.12*	
		For Class 55 Rating, Add	*218.08*	
40 05 19 00-0073	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,877.03	352.47
		For Class 52 Rating, Deduct	*-147.73*	
		For Class 54 Rating, Add	*100.72*	
		For Class 55 Rating, Add	*223.88*	
40 05 19 00-0074	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,917.06	355.96
		For Class 52 Rating, Deduct	*-151.55*	
		For Class 54 Rating, Add	*103.33*	
		For Class 55 Rating, Add	*229.67*	
40 05 19 00-0075	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,957.08	359.45
		For Class 52 Rating, Deduct	*-155.37*	
		For Class 54 Rating, Add	*105.94*	
		For Class 55 Rating, Add	*235.46*	
40 05 19 00-0076	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,997.11	362.94
		For Class 52 Rating, Deduct	*-159.19*	
		For Class 54 Rating, Add	*108.54*	
		For Class 55 Rating, Add	*241.25*	
40 05 19 00-0077	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,037.14	366.43
		For Class 52 Rating, Deduct	*-163.01*	
		For Class 54 Rating, Add	*111.15*	
		For Class 55 Rating, Add	*247.04*	
40 05 19 00-0078	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,077.18	369.92
		For Class 52 Rating, Deduct	*-166.84*	
		For Class 54 Rating, Add	*113.75*	
		For Class 55 Rating, Add	*252.83*	
40 05 19 00-0079	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,117.20	373.41
		For Class 52 Rating, Deduct	*-170.66*	
		For Class 54 Rating, Add	*116.36*	
		For Class 55 Rating, Add	*258.63*	
40 05 19 00-0080	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,157.23	376.90
		For Class 52 Rating, Deduct	*-174.48*	
		For Class 54 Rating, Add	*118.96*	
		For Class 55 Rating, Add	*264.42*	
40 05 19 00-0081	EA	6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,197.26	380.39
		For Class 52 Rating, Deduct	*-178.30*	
		For Class 54 Rating, Add	*121.57*	
		For Class 55 Rating, Add	*270.21*	
40 05 19 00-0082	EA	6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,237.29	383.87
		For Class 52 Rating, Deduct	*-182.12*	
		For Class 54 Rating, Add	*124.17*	
		For Class 55 Rating, Add	*276.00*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0083		8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*		
40 05 19 00-0084	EA	8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	980.44	321.06
		For Class 52 Rating, Deduct	*-54.34*	
		For Class 54 Rating, Add	*37.05*	
		For Class 55 Rating, Add	*82.35*	
40 05 19 00-0085	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,033.49	324.55
		For Class 52 Rating, Deduct	*-59.59*	
		For Class 54 Rating, Add	*40.63*	
		For Class 55 Rating, Add	*90.31*	
40 05 19 00-0086	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,086.54	328.04
		For Class 52 Rating, Deduct	*-64.85*	
		For Class 54 Rating, Add	*44.21*	
		For Class 55 Rating, Add	*98.27*	
40 05 19 00-0087	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,139.60	331.53
		For Class 52 Rating, Deduct	*-70.10*	
		For Class 54 Rating, Add	*47.80*	
		For Class 55 Rating, Add	*106.24*	
40 05 19 00-0088	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,192.66	335.02
		For Class 52 Rating, Deduct	*-75.36*	
		For Class 54 Rating, Add	*51.38*	
		For Class 55 Rating, Add	*114.20*	
40 05 19 00-0089	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,245.72	338.50
		For Class 52 Rating, Deduct	*-80.61*	
		For Class 54 Rating, Add	*54.96*	
		For Class 55 Rating, Add	*122.16*	
40 05 19 00-0090	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,298.77	341.99
		For Class 52 Rating, Deduct	*-85.87*	
		For Class 54 Rating, Add	*58.55*	
		For Class 55 Rating, Add	*130.13*	
40 05 19 00-0091	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,351.83	345.48
		For Class 52 Rating, Deduct	*-91.12*	
		For Class 54 Rating, Add	*62.13*	
		For Class 55 Rating, Add	*138.09*	
40 05 19 00-0092	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,404.89	348.97
		For Class 52 Rating, Deduct	*-96.38*	
		For Class 54 Rating, Add	*65.71*	
		For Class 55 Rating, Add	*146.05*	
40 05 19 00-0093	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,457.95	352.47
		For Class 52 Rating, Deduct	*-101.63*	
		For Class 54 Rating, Add	*69.29*	
		For Class 55 Rating, Add	*154.02*	
40 05 19 00-0094	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,511.01	355.96
		For Class 52 Rating, Deduct	*-106.88*	
		For Class 54 Rating, Add	*72.88*	
		For Class 55 Rating, Add	*161.98*	
40 05 19 00-0095	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,564.06	359.45
		For Class 52 Rating, Deduct	*-112.14*	
		For Class 54 Rating, Add	*76.46*	
		For Class 55 Rating, Add	*169.94*	
40 05 19 00-0096	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,617.12	362.94
		For Class 52 Rating, Deduct	*-117.39*	
		For Class 54 Rating, Add	*80.04*	
		For Class 55 Rating, Add	*177.91*	
40 05 19 00-0097	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,670.18	366.43
		For Class 52 Rating, Deduct	*-122.65*	
		For Class 54 Rating, Add	*83.62*	
		For Class 55 Rating, Add	*185.87*	
40 05 19 00-0098	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,723.24	369.92
		For Class 52 Rating, Deduct	*-127.90*	
		For Class 54 Rating, Add	*87.21*	
		For Class 55 Rating, Add	*193.83*	
40 05 19 00-0099	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,776.29	373.41
		For Class 52 Rating, Deduct	*-133.16*	
		For Class 54 Rating, Add	*90.79*	
		For Class 55 Rating, Add	*201.80*	
40 05 19 00-0100	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,829.35	376.90
		For Class 52 Rating, Deduct	*-138.41*	
		For Class 54 Rating, Add	*94.37*	
		For Class 55 Rating, Add	*209.76*	
40 05 19 00-0101	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,882.41	380.39
		For Class 52 Rating, Deduct	*-143.67*	
		For Class 54 Rating, Add	*97.96*	
		For Class 55 Rating, Add	*217.72*	
40 05 19 00-0102	EA	8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,935.47	383.87
		For Class 52 Rating, Deduct	*-148.92*	
		For Class 54 Rating, Add	*101.54*	
		For Class 55 Rating, Add	*225.69*	
40 05 19 00-0103	EA	8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,988.53	387.36
		For Class 52 Rating, Deduct	*-154.18*	
		For Class 54 Rating, Add	*105.12*	
		For Class 55 Rating, Add	*233.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0104	EA	8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,041.58	390.85
		For Class 52 Rating, Deduct	*-159.43*	
		For Class 54 Rating, Add	*108.70*	
		For Class 55 Rating, Add	*241.61*	
40 05 19 00-0105	EA	8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,094.64	394.34
		For Class 52 Rating, Deduct	*-164.69*	
		For Class 54 Rating, Add	*112.29*	
		For Class 55 Rating, Add	*249.57*	
40 05 19 00-0106	EA	8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,147.70	397.83
		For Class 52 Rating, Deduct	*-169.94*	
		For Class 54 Rating, Add	*115.87*	
		For Class 55 Rating, Add	*257.54*	
40 05 19 00-0107	EA	8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,200.76	401.32
		For Class 52 Rating, Deduct	*-175.20*	
		For Class 54 Rating, Add	*119.45*	
		For Class 55 Rating, Add	*265.50*	
40 05 19 00-0108	EA	8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,253.81	404.81
		For Class 52 Rating, Deduct	*-180.45*	
		For Class 54 Rating, Add	*123.03*	
		For Class 55 Rating, Add	*273.46*	
40 05 19 00-0109	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,306.87	408.30
		For Class 52 Rating, Deduct	*-185.71*	
		For Class 54 Rating, Add	*126.62*	
		For Class 55 Rating, Add	*281.43*	
40 05 19 00-0110	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,359.93	411.79
		For Class 52 Rating, Deduct	*-190.96*	
		For Class 54 Rating, Add	*130.20*	
		For Class 55 Rating, Add	*289.39*	
40 05 19 00-0111	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,412.99	415.29
		For Class 52 Rating, Deduct	*-196.21*	
		For Class 54 Rating, Add	*133.78*	
		For Class 55 Rating, Add	*297.35*	
40 05 19 00-0112	EA	8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,466.05	418.78
		For Class 52 Rating, Deduct	*-201.47*	
		For Class 54 Rating, Add	*137.37*	
		For Class 55 Rating, Add	*305.32*	
40 05 19 00-0113	EA	8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,519.10	422.27
		For Class 52 Rating, Deduct	*-206.72*	
		For Class 54 Rating, Add	*140.95*	
		For Class 55 Rating, Add	*313.28*	
40 05 19 00-0114	EA	8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,572.16	425.75
		For Class 52 Rating, Deduct	*-211.98*	
		For Class 54 Rating, Add	*144.53*	
		For Class 55 Rating, Add	*321.24*	
40 05 19 00-0115	EA	8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,625.22	429.24
		For Class 52 Rating, Deduct	*-217.23*	
		For Class 54 Rating, Add	*148.11*	
		For Class 55 Rating, Add	*329.21*	
40 05 19 00-0116	EA	8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,678.28	432.73
		For Class 52 Rating, Deduct	*-222.49*	
		For Class 54 Rating, Add	*151.70*	
		For Class 55 Rating, Add	*337.17*	
40 05 19 00-0117	EA	8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,731.33	436.22
		For Class 52 Rating, Deduct	*-227.74*	
		For Class 54 Rating, Add	*155.28*	
		For Class 55 Rating, Add	*345.13*	
40 05 19 00-0118	EA	8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,784.39	439.71
		For Class 52 Rating, Deduct	*-233.00*	
		For Class 54 Rating, Add	*158.86*	
		For Class 55 Rating, Add	*353.10*	
40 05 19 00-0119	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,837.45	443.20
		For Class 52 Rating, Deduct	*-238.25*	
		For Class 54 Rating, Add	*162.44*	
		For Class 55 Rating, Add	*361.06*	
40 05 19 00-0120	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,890.51	446.69
		For Class 52 Rating, Deduct	*-243.51*	
		For Class 54 Rating, Add	*166.03*	
		For Class 55 Rating, Add	*369.02*	
40 05 19 00-0121	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,943.57	450.18
		For Class 52 Rating, Deduct	*-248.76*	
		For Class 54 Rating, Add	*169.61*	
		For Class 55 Rating, Add	*376.99*	
40 05 19 00-0122	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,996.61	453.67
		For Class 52 Rating, Deduct	*-254.02*	
		For Class 54 Rating, Add	*173.19*	
		For Class 55 Rating, Add	*384.95*	

40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0124	EA	10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,226.24	390.85
		For Class 52 Rating, Deduct	*-69.74*	
		For Class 54 Rating, Add	*47.55*	
		For Class 55 Rating, Add	*105.69*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0125	EA	10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,294.50	394.34
		For Class 52 Rating, Deduct	*-76.67*	
		For Class 54 Rating, Add	*52.28*	
		For Class 55 Rating, Add	*116.19*	
40 05 19 00-0126	EA	10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,362.76	397.83
		For Class 52 Rating, Deduct	*-83.60*	
		For Class 54 Rating, Add	*57.00*	
		For Class 55 Rating, Add	*126.69*	
40 05 19 00-0127	EA	10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,431.02	401.32
		For Class 52 Rating, Deduct	*-90.52*	
		For Class 54 Rating, Add	*61.72*	
		For Class 55 Rating, Add	*137.19*	
40 05 19 00-0128	EA	10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,499.26	404.81
		For Class 52 Rating, Deduct	*-97.45*	
		For Class 54 Rating, Add	*66.44*	
		For Class 55 Rating, Add	*147.68*	
40 05 19 00-0129	EA	10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,567.52	408.30
		For Class 52 Rating, Deduct	*-104.38*	
		For Class 54 Rating, Add	*71.17*	
		For Class 55 Rating, Add	*158.18*	
40 05 19 00-0130	EA	10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,635.78	411.79
		For Class 52 Rating, Deduct	*-111.30*	
		For Class 54 Rating, Add	*75.89*	
		For Class 55 Rating, Add	*168.68*	
40 05 19 00-0131	EA	10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,704.04	415.29
		For Class 52 Rating, Deduct	*-118.23*	
		For Class 54 Rating, Add	*80.61*	
		For Class 55 Rating, Add	*179.17*	
40 05 19 00-0132	EA	10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,772.30	418.78
		For Class 52 Rating, Deduct	*-125.16*	
		For Class 54 Rating, Add	*85.33*	
		For Class 55 Rating, Add	*189.67*	
40 05 19 00-0133	EA	10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,840.55	422.27
		For Class 52 Rating, Deduct	*-132.08*	
		For Class 54 Rating, Add	*90.06*	
		For Class 55 Rating, Add	*200.17*	
40 05 19 00-0134	EA	10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,908.81	425.75
		For Class 52 Rating, Deduct	*-139.01*	
		For Class 54 Rating, Add	*94.78*	
		For Class 55 Rating, Add	*210.66*	
40 05 19 00-0135	EA	10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,977.07	429.24
		For Class 52 Rating, Deduct	*-145.94*	
		For Class 54 Rating, Add	*99.50*	
		For Class 55 Rating, Add	*221.16*	
40 05 19 00-0136	EA	10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,045.33	432.73
		For Class 52 Rating, Deduct	*-152.86*	
		For Class 54 Rating, Add	*104.23*	
		For Class 55 Rating, Add	*231.66*	
40 05 19 00-0137	EA	10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,113.58	436.22
		For Class 52 Rating, Deduct	*-159.79*	
		For Class 54 Rating, Add	*108.95*	
		For Class 55 Rating, Add	*242.16*	
40 05 19 00-0138	EA	10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,181.84	439.71
		For Class 52 Rating, Deduct	*-166.72*	
		For Class 54 Rating, Add	*113.67*	
		For Class 55 Rating, Add	*252.65*	
40 05 19 00-0139	EA	10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,250.10	443.20
		For Class 52 Rating, Deduct	*-173.64*	
		For Class 54 Rating, Add	*118.39*	
		For Class 55 Rating, Add	*263.15*	
40 05 19 00-0140	EA	10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,318.36	446.69
		For Class 52 Rating, Deduct	*-180.57*	
		For Class 54 Rating, Add	*123.12*	
		For Class 55 Rating, Add	*273.65*	
40 05 19 00-0141	EA	10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,386.62	450.18
		For Class 52 Rating, Deduct	*-187.50*	
		For Class 54 Rating, Add	*127.84*	
		For Class 55 Rating, Add	*284.14*	
40 05 19 00-0142	EA	10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,454.86	453.67
		For Class 52 Rating, Deduct	*-194.42*	
		For Class 54 Rating, Add	*132.56*	
		For Class 55 Rating, Add	*294.64*	
40 05 19 00-0143	EA	10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,523.12	457.16
		For Class 52 Rating, Deduct	*-201.35*	
		For Class 54 Rating, Add	*137.28*	
		For Class 55 Rating, Add	*305.14*	
40 05 19 00-0144	EA	10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,591.38	460.65
		For Class 52 Rating, Deduct	*-208.28*	
		For Class 54 Rating, Add	*142.01*	
		For Class 55 Rating, Add	*315.63*	
40 05 19 00-0145	EA	10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,659.64	464.14
		For Class 52 Rating, Deduct	*-215.20*	
		For Class 54 Rating, Add	*146.73*	
		For Class 55 Rating, Add	*326.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0146	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,727.88	467.63
		For Class 52 Rating, Deduct	*-222.13*	
		For Class 54 Rating, Add	*151.45*	
		For Class 55 Rating, Add	*336.63*	
40 05 19 00-0147	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,796.14	471.11
		For Class 52 Rating, Deduct	*-229.06*	
		For Class 54 Rating, Add	*156.17*	
		For Class 55 Rating, Add	*347.12*	
40 05 19 00-0148	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,864.40	474.60
		For Class 52 Rating, Deduct	*-235.98*	
		For Class 54 Rating, Add	*160.90*	
		For Class 55 Rating, Add	*357.62*	
40 05 19 00-0149	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,932.66	478.09
		For Class 52 Rating, Deduct	*-242.91*	
		For Class 54 Rating, Add	*165.62*	
		For Class 55 Rating, Add	*368.12*	
40 05 19 00-0150	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,000.92	481.59
		For Class 52 Rating, Deduct	*-249.84*	
		For Class 54 Rating, Add	*170.34*	
		For Class 55 Rating, Add	*378.62*	
40 05 19 00-0151	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,069.17	485.08
		For Class 52 Rating, Deduct	*-256.76*	
		For Class 54 Rating, Add	*175.07*	
		For Class 55 Rating, Add	*389.11*	
40 05 19 00-0152	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,137.43	488.57
		For Class 52 Rating, Deduct	*-263.69*	
		For Class 54 Rating, Add	*179.79*	
		For Class 55 Rating, Add	*399.61*	
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,205.69	492.06
		For Class 52 Rating, Deduct	*-270.62*	
		For Class 54 Rating, Add	*184.51*	
		For Class 55 Rating, Add	*410.11*	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,273.95	495.55
		For Class 52 Rating, Deduct	*-277.54*	
		For Class 54 Rating, Add	*189.23*	
		For Class 55 Rating, Add	*420.60*	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,341.12	499.04
		For Class 52 Rating, Deduct	*-284.35*	
		For Class 54 Rating, Add	*193.88*	
		For Class 55 Rating, Add	*430.92*	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,410.46	502.53
		For Class 52 Rating, Deduct	*-291.40*	
		For Class 54 Rating, Add	*198.68*	
		For Class 55 Rating, Add	*441.60*	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,478.72	506.02
		For Class 52 Rating, Deduct	*-298.32*	
		For Class 54 Rating, Add	*203.40*	
		For Class 55 Rating, Add	*452.10*	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,546.98	509.51
		For Class 52 Rating, Deduct	*-305.25*	
		For Class 54 Rating, Add	*208.13*	
		For Class 55 Rating, Add	*462.59*	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,615.24	513.00
		For Class 52 Rating, Deduct	*-312.18*	
		For Class 54 Rating, Add	*212.85*	
		For Class 55 Rating, Add	*473.09*	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,683.49	516.48
		For Class 52 Rating, Deduct	*-319.10*	
		For Class 54 Rating, Add	*217.57*	
		For Class 55 Rating, Add	*483.59*	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,751.75	519.97
		For Class 52 Rating, Deduct	*-326.03*	
		For Class 54 Rating, Add	*222.29*	
		For Class 55 Rating, Add	*494.08*	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,820.01	523.46
		For Class 52 Rating, Deduct	*-332.96*	
		For Class 54 Rating, Add	*227.02*	
		For Class 55 Rating, Add	*504.58*	

40 05 19 00-0163 12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,589.25	488.57
		For Class 52 Rating, Deduct	*-93.39*	
		For Class 54 Rating, Add	*63.68*	
		For Class 55 Rating, Add	*141.53*	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,673.80	492.06
		For Class 52 Rating, Deduct	*-102.11*	
		For Class 54 Rating, Add	*69.62*	
		For Class 55 Rating, Add	*154.74*	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,758.34	495.55
		For Class 52 Rating, Deduct	*-110.83*	
		For Class 54 Rating, Add	*75.56*	
		For Class 55 Rating, Add	*167.95*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0167	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,842.89	499.04
		For Class 52 Rating, Deduct	*-119.54*	
		For Class 54 Rating, Add	*81.51*	
		For Class 55 Rating, Add	*181.16*	
40 05 19 00-0168	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,927.42	502.53
		For Class 52 Rating, Deduct	*-128.26*	
		For Class 54 Rating, Add	*87.45*	
		For Class 55 Rating, Add	*194.38*	
40 05 19 00-0169	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,011.97	506.02
		For Class 52 Rating, Deduct	*-136.98*	
		For Class 54 Rating, Add	*93.40*	
		For Class 55 Rating, Add	*207.59*	
40 05 19 00-0170	EA	12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,096.51	509.51
		For Class 52 Rating, Deduct	*-145.70*	
		For Class 54 Rating, Add	*99.34*	
		For Class 55 Rating, Add	*220.80*	
40 05 19 00-0171	EA	12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,181.05	513.00
		For Class 52 Rating, Deduct	*-154.42*	
		For Class 54 Rating, Add	*105.28*	
		For Class 55 Rating, Add	*234.01*	
40 05 19 00-0172	EA	12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,265.59	516.48
		For Class 52 Rating, Deduct	*-163.13*	
		For Class 54 Rating, Add	*111.23*	
		For Class 55 Rating, Add	*247.22*	
40 05 19 00-0173	EA	12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,350.13	519.97
		For Class 52 Rating, Deduct	*-171.85*	
		For Class 54 Rating, Add	*117.17*	
		For Class 55 Rating, Add	*260.43*	
40 05 19 00-0174	EA	12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,434.68	523.46
		For Class 52 Rating, Deduct	*-180.57*	
		For Class 54 Rating, Add	*123.12*	
		For Class 55 Rating, Add	*273.65*	
40 05 19 00-0175	EA	12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,519.22	526.95
		For Class 52 Rating, Deduct	*-189.29*	
		For Class 54 Rating, Add	*129.06*	
		For Class 55 Rating, Add	*286.86*	
40 05 19 00-0176	EA	12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,603.77	530.44
		For Class 52 Rating, Deduct	*-198.01*	
		For Class 54 Rating, Add	*135.00*	
		For Class 55 Rating, Add	*300.07*	
40 05 19 00-0177	EA	12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,688.30	533.93
		For Class 52 Rating, Deduct	*-206.72*	
		For Class 54 Rating, Add	*140.95*	
		For Class 55 Rating, Add	*313.28*	
40 05 19 00-0178	EA	12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,772.85	537.42
		For Class 52 Rating, Deduct	*-215.44*	
		For Class 54 Rating, Add	*146.89*	
		For Class 55 Rating, Add	*326.49*	
40 05 19 00-0179	EA	12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,857.39	540.91
		For Class 52 Rating, Deduct	*-224.16*	
		For Class 54 Rating, Add	*152.84*	
		For Class 55 Rating, Add	*339.70*	
40 05 19 00-0180	EA	12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,941.94	544.41
		For Class 52 Rating, Deduct	*-232.88*	
		For Class 54 Rating, Add	*158.78*	
		For Class 55 Rating, Add	*352.92*	
40 05 19 00-0181	EA	12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,026.47	547.90
		For Class 52 Rating, Deduct	*-241.60*	
		For Class 54 Rating, Add	*164.72*	
		For Class 55 Rating, Add	*366.13*	
40 05 19 00-0182	EA	12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,111.02	551.39
		For Class 52 Rating, Deduct	*-250.31*	
		For Class 54 Rating, Add	*170.67*	
		For Class 55 Rating, Add	*379.34*	
40 05 19 00-0183	EA	12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,195.56	554.88
		For Class 52 Rating, Deduct	*-259.03*	
		For Class 54 Rating, Add	*176.61*	
		For Class 55 Rating, Add	*392.55*	
40 05 19 00-0184	EA	12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,280.10	558.37
		For Class 52 Rating, Deduct	*-267.75*	
		For Class 54 Rating, Add	*182.56*	
		For Class 55 Rating, Add	*405.76*	
40 05 19 00-0185	EA	12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,364.65	561.85
		For Class 52 Rating, Deduct	*-276.47*	
		For Class 54 Rating, Add	*188.50*	
		For Class 55 Rating, Add	*418.98*	
40 05 19 00-0186	EA	12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,449.18	565.34
		For Class 52 Rating, Deduct	*-285.19*	
		For Class 54 Rating, Add	*194.45*	
		For Class 55 Rating, Add	*432.19*	
40 05 19 00-0187	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,533.73	568.83
		For Class 52 Rating, Deduct	*-293.90*	
		For Class 54 Rating, Add	*200.39*	
		For Class 55 Rating, Add	*445.40*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0188	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,618.27	572.32
		For Class 52 Rating, Deduct	*-302.62*	
		For Class 54 Rating, Add	*206.33*	
		For Class 55 Rating, Add	*458.61*	
40 05 19 00-0189	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,702.82	575.81
		For Class 52 Rating, Deduct	*-311.34*	
		For Class 54 Rating, Add	*212.28*	
		For Class 55 Rating, Add	*471.82*	
40 05 19 00-0190	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,787.34	579.30
		For Class 52 Rating, Deduct	*-320.06*	
		For Class 54 Rating, Add	*218.22*	
		For Class 55 Rating, Add	*485.03*	
40 05 19 00-0191	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,871.89	582.79
		For Class 52 Rating, Deduct	*-328.78*	
		For Class 54 Rating, Add	*224.17*	
		For Class 55 Rating, Add	*498.25*	
40 05 19 00-0192	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,956.43	586.28
		For Class 52 Rating, Deduct	*-337.49*	
		For Class 54 Rating, Add	*230.11*	
		For Class 55 Rating, Add	*511.46*	
40 05 19 00-0193	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,040.98	589.77
		For Class 52 Rating, Deduct	*-346.21*	
		For Class 54 Rating, Add	*236.05*	
		For Class 55 Rating, Add	*524.67*	
40 05 19 00-0194	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,125.52	593.26
		For Class 52 Rating, Deduct	*-354.93*	
		For Class 54 Rating, Add	*242.00*	
		For Class 55 Rating, Add	*537.88*	
40 05 19 00-0195	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,210.06	596.75
		For Class 52 Rating, Deduct	*-363.65*	
		For Class 54 Rating, Add	*247.94*	
		For Class 55 Rating, Add	*551.09*	
40 05 19 00-0196	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,294.60	600.24
		For Class 52 Rating, Deduct	*-372.37*	
		For Class 54 Rating, Add	*253.89*	
		For Class 55 Rating, Add	*564.30*	
40 05 19 00-0197	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,379.14	603.73
		For Class 52 Rating, Deduct	*-381.08*	
		For Class 54 Rating, Add	*259.83*	
		For Class 55 Rating, Add	*577.52*	
40 05 19 00-0198	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,463.69	607.22
		For Class 52 Rating, Deduct	*-389.80*	
		For Class 54 Rating, Add	*265.77*	
		For Class 55 Rating, Add	*590.73*	
40 05 19 00-0199	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,548.22	610.71
		For Class 52 Rating, Deduct	*-398.52*	
		For Class 54 Rating, Add	*271.72*	
		For Class 55 Rating, Add	*603.94*	
40 05 19 00-0200	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,632.77	614.20
		For Class 52 Rating, Deduct	*-407.24*	
		For Class 54 Rating, Add	*277.66*	
		For Class 55 Rating, Add	*617.15*	
40 05 19 00-0201	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,717.31	617.69
		For Class 52 Rating, Deduct	*-415.96*	
		For Class 54 Rating, Add	*283.61*	
		For Class 55 Rating, Add	*630.36*	
40 05 19 00-0202	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,801.86	621.18
		For Class 52 Rating, Deduct	*-424.67*	
		For Class 54 Rating, Add	*289.55*	
		For Class 55 Rating, Add	*643.58*	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0204	EA	14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,077.12	586.28
		For Class 52 Rating, Deduct	*-130.77*	
		For Class 54 Rating, Add	*89.16*	
		For Class 55 Rating, Add	*198.18*	
40 05 19 00-0205	EA	14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,179.04	589.77
		For Class 52 Rating, Deduct	*-141.40*	
		For Class 54 Rating, Add	*96.41*	
		For Class 55 Rating, Add	*214.28*	
40 05 19 00-0206	EA	14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,280.95	593.26
		For Class 52 Rating, Deduct	*-152.03*	
		For Class 54 Rating, Add	*103.66*	
		For Class 55 Rating, Add	*230.39*	
40 05 19 00-0207	EA	14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,382.86	596.75
		For Class 52 Rating, Deduct	*-162.66*	
		For Class 54 Rating, Add	*110.90*	
		For Class 55 Rating, Add	*246.50*	
40 05 19 00-0208	EA	14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,484.77	600.24
		For Class 52 Rating, Deduct	*-173.29*	
		For Class 54 Rating, Add	*118.15*	
		For Class 55 Rating, Add	*262.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0209	EA	14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,586.69	603.73
		For Class 52 Rating, Deduct	*-183.91*	
		For Class 54 Rating, Add	*125.40*	
		For Class 55 Rating, Add	*278.71*	
40 05 19 00-0210	EA	14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,688.60	607.22
		For Class 52 Rating, Deduct	*-194.54*	
		For Class 54 Rating, Add	*132.64*	
		For Class 55 Rating, Add	*294.82*	
40 05 19 00-0211	EA	14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,790.51	610.71
		For Class 52 Rating, Deduct	*-205.17*	
		For Class 54 Rating, Add	*139.89*	
		For Class 55 Rating, Add	*310.93*	
40 05 19 00-0212	EA	14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,892.42	614.20
		For Class 52 Rating, Deduct	*-215.80*	
		For Class 54 Rating, Add	*147.14*	
		For Class 55 Rating, Add	*327.04*	
40 05 19 00-0213	EA	14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,994.34	617.69
		For Class 52 Rating, Deduct	*-226.43*	
		For Class 54 Rating, Add	*154.38*	
		For Class 55 Rating, Add	*343.14*	
40 05 19 00-0214	EA	14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,096.25	621.18
		For Class 52 Rating, Deduct	*-237.06*	
		For Class 54 Rating, Add	*161.63*	
		For Class 55 Rating, Add	*359.25*	
40 05 19 00-0215	EA	14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,198.17	624.67
		For Class 52 Rating, Deduct	*-247.69*	
		For Class 54 Rating, Add	*168.88*	
		For Class 55 Rating, Add	*375.36*	
40 05 19 00-0216	EA	14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,300.08	628.16
		For Class 52 Rating, Deduct	*-258.32*	
		For Class 54 Rating, Add	*176.12*	
		For Class 55 Rating, Add	*391.47*	
40 05 19 00-0217	EA	14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,401.99	631.65
		For Class 52 Rating, Deduct	*-268.94*	
		For Class 54 Rating, Add	*183.37*	
		For Class 55 Rating, Add	*407.57*	
40 05 19 00-0218	EA	14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,503.91	635.14
		For Class 52 Rating, Deduct	*-279.57*	
		For Class 54 Rating, Add	*190.62*	
		For Class 55 Rating, Add	*423.68*	
40 05 19 00-0219	EA	14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,605.82	638.63
		For Class 52 Rating, Deduct	*-290.20*	
		For Class 54 Rating, Add	*197.87*	
		For Class 55 Rating, Add	*439.79*	
40 05 19 00-0220	EA	14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,707.73	642.12
		For Class 52 Rating, Deduct	*-300.83*	
		For Class 54 Rating, Add	*205.11*	
		For Class 55 Rating, Add	*455.90*	
40 05 19 00-0221	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,809.64	645.61
		For Class 52 Rating, Deduct	*-311.46*	
		For Class 54 Rating, Add	*212.36*	
		For Class 55 Rating, Add	*472.00*	
40 05 19 00-0222	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,911.56	649.10
		For Class 52 Rating, Deduct	*-322.09*	
		For Class 54 Rating, Add	*219.61*	
		For Class 55 Rating, Add	*488.11*	
40 05 19 00-0223	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,013.47	652.58
		For Class 52 Rating, Deduct	*-332.72*	
		For Class 54 Rating, Add	*226.85*	
		For Class 55 Rating, Add	*504.22*	
40 05 19 00-0224	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,115.39	656.07
		For Class 52 Rating, Deduct	*-343.35*	
		For Class 54 Rating, Add	*234.10*	
		For Class 55 Rating, Add	*520.33*	
40 05 19 00-0225	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,217.30	659.56
		For Class 52 Rating, Deduct	*-353.98*	
		For Class 54 Rating, Add	*241.35*	
		For Class 55 Rating, Add	*536.43*	
40 05 19 00-0226	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,319.21	663.05
		For Class 52 Rating, Deduct	*-364.60*	
		For Class 54 Rating, Add	*248.59*	
		For Class 55 Rating, Add	*552.54*	
40 05 19 00-0227	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,421.13	666.54
		For Class 52 Rating, Deduct	*-375.23*	
		For Class 54 Rating, Add	*255.84*	
		For Class 55 Rating, Add	*568.65*	
40 05 19 00-0228	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,523.04	670.03
		For Class 52 Rating, Deduct	*-385.86*	
		For Class 54 Rating, Add	*263.09*	
		For Class 55 Rating, Add	*584.76*	
40 05 19 00-0229	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,624.96	673.53
		For Class 52 Rating, Deduct	*-396.49*	
		For Class 54 Rating, Add	*270.33*	
		For Class 55 Rating, Add	*600.86*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0230	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,726.86	677.02
		For Class 52 Rating, Deduct	*-407.12*	
		For Class 54 Rating, Add	*277.58*	
		For Class 55 Rating, Add	*616.97*	
40 05 19 00-0231	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,828.78	680.51
		For Class 52 Rating, Deduct	*-417.75*	
		For Class 54 Rating, Add	*284.83*	
		For Class 55 Rating, Add	*633.08*	
40 05 19 00-0232	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,930.69	684.00
		For Class 52 Rating, Deduct	*-428.38*	
		For Class 54 Rating, Add	*292.07*	
		For Class 55 Rating, Add	*649.18*	
40 05 19 00-0233	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,032.61	687.49
		For Class 52 Rating, Deduct	*-439.01*	
		For Class 54 Rating, Add	*299.32*	
		For Class 55 Rating, Add	*665.29*	
40 05 19 00-0234	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,134.52	690.98
		For Class 52 Rating, Deduct	*-449.63*	
		For Class 54 Rating, Add	*306.57*	
		For Class 55 Rating, Add	*681.40*	
40 05 19 00-0235	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,236.43	694.47
		For Class 52 Rating, Deduct	*-460.26*	
		For Class 54 Rating, Add	*313.82*	
		For Class 55 Rating, Add	*697.51*	
40 05 19 00-0236	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,338.35	697.95
		For Class 52 Rating, Deduct	*-470.89*	
		For Class 54 Rating, Add	*321.06*	
		For Class 55 Rating, Add	*713.62*	
40 05 19 00-0237	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,440.26	701.44
		For Class 52 Rating, Deduct	*-481.52*	
		For Class 54 Rating, Add	*328.31*	
		For Class 55 Rating, Add	*729.72*	
40 05 19 00-0238	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,542.18	704.93
		For Class 52 Rating, Deduct	*-492.15*	
		For Class 54 Rating, Add	*335.56*	
		For Class 55 Rating, Add	*745.83*	
40 05 19 00-0239	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,644.07	708.42
		For Class 52 Rating, Deduct	*-502.78*	
		For Class 54 Rating, Add	*342.80*	
		For Class 55 Rating, Add	*761.94*	
40 05 19 00-0240	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,745.99	711.91
		For Class 52 Rating, Deduct	*-513.41*	
		For Class 54 Rating, Add	*350.05*	
		For Class 55 Rating, Add	*778.05*	
40 05 19 00-0241	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,847.90	715.40
		For Class 52 Rating, Deduct	*-524.04*	
		For Class 54 Rating, Add	*357.30*	
		For Class 55 Rating, Add	*794.15*	

40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0243	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,424.42	670.03
		For Class 52 Rating, Deduct	*-155.01*	
		For Class 54 Rating, Add	*105.69*	
		For Class 55 Rating, Add	*234.92*	
40 05 19 00-0244	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,542.62	673.53
		For Class 52 Rating, Deduct	*-167.43*	
		For Class 54 Rating, Add	*114.16*	
		For Class 55 Rating, Add	*253.74*	
40 05 19 00-0245	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,660.81	677.02
		For Class 52 Rating, Deduct	*-179.85*	
		For Class 54 Rating, Add	*122.63*	
		For Class 55 Rating, Add	*272.56*	
40 05 19 00-0246	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,779.01	680.51
		For Class 52 Rating, Deduct	*-192.27*	
		For Class 54 Rating, Add	*131.10*	
		For Class 55 Rating, Add	*291.38*	
40 05 19 00-0247	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,897.22	684.00
		For Class 52 Rating, Deduct	*-204.69*	
		For Class 54 Rating, Add	*139.56*	
		For Class 55 Rating, Add	*310.21*	
40 05 19 00-0248	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,015.42	687.49
		For Class 52 Rating, Deduct	*-217.11*	
		For Class 54 Rating, Add	*148.03*	
		For Class 55 Rating, Add	*329.03*	
40 05 19 00-0249	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,133.61	690.98
		For Class 52 Rating, Deduct	*-229.53*	
		For Class 54 Rating, Add	*156.50*	
		For Class 55 Rating, Add	*347.85*	
40 05 19 00-0250	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,251.81	694.47
		For Class 52 Rating, Deduct	*-241.95*	
		For Class 54 Rating, Add	*164.97*	
		For Class 55 Rating, Add	*366.67*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0251	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,370.01	697.95
		For Class 52 Rating, Deduct	*-254.38*	
		For Class 54 Rating, Add	*173.44*	
		For Class 55 Rating, Add	*385.49*	
40 05 19 00-0252	EA	16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,488.21	701.44
		For Class 52 Rating, Deduct	*-266.80*	
		For Class 54 Rating, Add	*181.91*	
		For Class 55 Rating, Add	*404.32*	
40 05 19 00-0253	EA	16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,606.41	704.93
		For Class 52 Rating, Deduct	*-279.22*	
		For Class 54 Rating, Add	*190.37*	
		For Class 55 Rating, Add	*423.14*	
40 05 19 00-0254	EA	16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,724.59	708.42
		For Class 52 Rating, Deduct	*-291.64*	
		For Class 54 Rating, Add	*198.84*	
		For Class 55 Rating, Add	*441.96*	
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,842.79	711.91
		For Class 52 Rating, Deduct	*-304.06*	
		For Class 54 Rating, Add	*207.31*	
		For Class 55 Rating, Add	*460.78*	
40 05 19 00-0256	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,960.99	715.40
		For Class 52 Rating, Deduct	*-316.48*	
		For Class 54 Rating, Add	*215.78*	
		For Class 55 Rating, Add	*479.60*	
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,079.19	718.89
		For Class 52 Rating, Deduct	*-328.90*	
		For Class 54 Rating, Add	*224.25*	
		For Class 55 Rating, Add	*498.43*	
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,197.38	722.38
		For Class 52 Rating, Deduct	*-341.32*	
		For Class 54 Rating, Add	*232.72*	
		For Class 55 Rating, Add	*517.25*	
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,315.58	725.87
		For Class 52 Rating, Deduct	*-353.74*	
		For Class 54 Rating, Add	*241.18*	
		For Class 55 Rating, Add	*536.07*	
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,433.78	729.36
		For Class 52 Rating, Deduct	*-366.16*	
		For Class 54 Rating, Add	*249.65*	
		For Class 55 Rating, Add	*554.89*	
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,551.99	732.85
		For Class 52 Rating, Deduct	*-378.58*	
		For Class 54 Rating, Add	*258.12*	
		For Class 55 Rating, Add	*573.72*	
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,670.19	736.35
		For Class 52 Rating, Deduct	*-391.00*	
		For Class 54 Rating, Add	*266.59*	
		For Class 55 Rating, Add	*592.54*	
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,788.38	739.83
		For Class 52 Rating, Deduct	*-403.42*	
		For Class 54 Rating, Add	*275.06*	
		For Class 55 Rating, Add	*611.36*	
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,906.58	743.32
		For Class 52 Rating, Deduct	*-415.84*	
		For Class 54 Rating, Add	*283.53*	
		For Class 55 Rating, Add	*630.18*	
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,024.78	746.81
		For Class 52 Rating, Deduct	*-428.26*	
		For Class 54 Rating, Add	*291.99*	
		For Class 55 Rating, Add	*649.00*	
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,142.98	750.30
		For Class 52 Rating, Deduct	*-440.68*	
		For Class 54 Rating, Add	*300.46*	
		For Class 55 Rating, Add	*667.83*	
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,261.17	753.79
		For Class 52 Rating, Deduct	*-453.10*	
		For Class 54 Rating, Add	*308.93*	
		For Class 55 Rating, Add	*686.65*	
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,379.37	757.28
		For Class 52 Rating, Deduct	*-465.52*	
		For Class 54 Rating, Add	*317.40*	
		For Class 55 Rating, Add	*705.47*	
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,497.57	760.77
		For Class 52 Rating, Deduct	*-477.94*	
		For Class 54 Rating, Add	*325.87*	
		For Class 55 Rating, Add	*724.29*	
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,615.77	764.26
		For Class 52 Rating, Deduct	*-490.36*	
		For Class 54 Rating, Add	*334.34*	
		For Class 55 Rating, Add	*743.12*	
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,733.97	767.75
		For Class 52 Rating, Deduct	*-502.78*	
		For Class 54 Rating, Add	*342.80*	
		For Class 55 Rating, Add	*761.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272	EA	16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,852.16	771.24
		For Class 52 Rating, Deduct	*-515.20*	
		For Class 54 Rating, Add	*351.27*	
		For Class 55 Rating, Add	*780.76*	
40 05 19 00-0273	EA	16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,970.36	774.73
		For Class 52 Rating, Deduct	*-527.62*	
		For Class 54 Rating, Add	*359.74*	
		For Class 55 Rating, Add	*799.58*	
40 05 19 00-0274	EA	16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,088.56	778.22
		For Class 52 Rating, Deduct	*-540.04*	
		For Class 54 Rating, Add	*368.21*	
		For Class 55 Rating, Add	*818.40*	
40 05 19 00-0275	EA	16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,206.77	781.71
		For Class 52 Rating, Deduct	*-552.46*	
		For Class 54 Rating, Add	*376.68*	
		For Class 55 Rating, Add	*837.23*	
40 05 19 00-0276	EA	16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,324.96	785.19
		For Class 52 Rating, Deduct	*-564.88*	
		For Class 54 Rating, Add	*385.15*	
		For Class 55 Rating, Add	*856.05*	
40 05 19 00-0277	EA	16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,443.16	788.68
		For Class 52 Rating, Deduct	*-577.30*	
		For Class 54 Rating, Add	*393.61*	
		For Class 55 Rating, Add	*874.87*	
40 05 19 00-0278	EA	16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,561.36	792.17
		For Class 52 Rating, Deduct	*-589.72*	
		For Class 54 Rating, Add	*402.08*	
		For Class 55 Rating, Add	*893.69*	
40 05 19 00-0279	EA	16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,679.56	795.66
		For Class 52 Rating, Deduct	*-602.14*	
		For Class 54 Rating, Add	*410.55*	
		For Class 55 Rating, Add	*912.52*	
40 05 19 00-0280	EA	16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,797.76	799.16
		For Class 52 Rating, Deduct	*-614.56*	
		For Class 54 Rating, Add	*419.02*	
		For Class 55 Rating, Add	*931.34*	

40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0282	EA	18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,805.31	755.19
		For Class 52 Rating, Deduct	*-182.72*	
		For Class 54 Rating, Add	*124.58*	
		For Class 55 Rating, Add	*276.90*	
40 05 19 00-0283	EA	18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,940.88	758.68
		For Class 52 Rating, Deduct	*-197.05*	
		For Class 54 Rating, Add	*134.35*	
		For Class 55 Rating, Add	*298.62*	
40 05 19 00-0284	EA	18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,076.45	762.17
		For Class 52 Rating, Deduct	*-211.38*	
		For Class 54 Rating, Add	*144.12*	
		For Class 55 Rating, Add	*320.34*	
40 05 19 00-0285	EA	18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,212.03	765.66
		For Class 52 Rating, Deduct	*-225.71*	
		For Class 54 Rating, Add	*153.90*	
		For Class 55 Rating, Add	*342.06*	
40 05 19 00-0286	EA	18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,347.59	769.14
		For Class 52 Rating, Deduct	*-240.04*	
		For Class 54 Rating, Add	*163.67*	
		For Class 55 Rating, Add	*363.78*	
40 05 19 00-0287	EA	18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,483.16	772.63
		For Class 52 Rating, Deduct	*-254.38*	
		For Class 54 Rating, Add	*173.44*	
		For Class 55 Rating, Add	*385.49*	
40 05 19 00-0288	EA	18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,618.73	776.12
		For Class 52 Rating, Deduct	*-268.71*	
		For Class 54 Rating, Add	*183.21*	
		For Class 55 Rating, Add	*407.21*	
40 05 19 00-0289	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,754.30	779.61
		For Class 52 Rating, Deduct	*-283.04*	
		For Class 54 Rating, Add	*192.98*	
		For Class 55 Rating, Add	*428.93*	
40 05 19 00-0290	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,889.87	783.10
		For Class 52 Rating, Deduct	*-297.37*	
		For Class 54 Rating, Add	*202.75*	
		For Class 55 Rating, Add	*450.65*	
40 05 19 00-0291	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,025.42	786.59
		For Class 52 Rating, Deduct	*-311.70*	
		For Class 54 Rating, Add	*212.52*	
		For Class 55 Rating, Add	*472.36*	
40 05 19 00-0292	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,161.00	790.08
		For Class 52 Rating, Deduct	*-326.03*	
		For Class 54 Rating, Add	*222.29*	
		For Class 55 Rating, Add	*494.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0293	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,296.57	793.57
		For Class 52 Rating, Deduct	*-340.36*	
		For Class 54 Rating, Add	*232.06*	
		For Class 55 Rating, Add	*515.80*	
40 05 19 00-0294	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,432.14	797.06
		For Class 52 Rating, Deduct	*-354.69*	
		For Class 54 Rating, Add	*241.84*	
		For Class 55 Rating, Add	*537.52*	
40 05 19 00-0295	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,567.70	800.56
		For Class 52 Rating, Deduct	*-369.02*	
		For Class 54 Rating, Add	*251.61*	
		For Class 55 Rating, Add	*559.24*	
40 05 19 00-0296	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,703.27	804.05
		For Class 52 Rating, Deduct	*-383.35*	
		For Class 54 Rating, Add	*261.38*	
		For Class 55 Rating, Add	*580.95*	
40 05 19 00-0297	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,838.84	807.54
		For Class 52 Rating, Deduct	*-397.68*	
		For Class 54 Rating, Add	*271.15*	
		For Class 55 Rating, Add	*602.67*	
40 05 19 00-0298	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,974.42	811.02
		For Class 52 Rating, Deduct	*-412.02*	
		For Class 54 Rating, Add	*280.92*	
		For Class 55 Rating, Add	*624.39*	
40 05 19 00-0299	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,109.99	814.51
		For Class 52 Rating, Deduct	*-426.35*	
		For Class 54 Rating, Add	*290.69*	
		For Class 55 Rating, Add	*646.11*	
40 05 19 00-0300	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,245.55	818.00
		For Class 52 Rating, Deduct	*-440.68*	
		For Class 54 Rating, Add	*300.46*	
		For Class 55 Rating, Add	*667.83*	
40 05 19 00-0301	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,381.12	821.49
		For Class 52 Rating, Deduct	*-455.01*	
		For Class 54 Rating, Add	*310.23*	
		For Class 55 Rating, Add	*689.54*	
40 05 19 00-0302	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,516.69	824.98
		For Class 52 Rating, Deduct	*-469.34*	
		For Class 54 Rating, Add	*320.00*	
		For Class 55 Rating, Add	*711.26*	
40 05 19 00-0303	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,652.26	828.47
		For Class 52 Rating, Deduct	*-483.67*	
		For Class 54 Rating, Add	*329.78*	
		For Class 55 Rating, Add	*732.98*	
40 05 19 00-0304	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,787.84	831.96
		For Class 52 Rating, Deduct	*-498.00*	
		For Class 54 Rating, Add	*339.55*	
		For Class 55 Rating, Add	*754.70*	
40 05 19 00-0305	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,923.40	835.45
		For Class 52 Rating, Deduct	*-512.33*	
		For Class 54 Rating, Add	*349.32*	
		For Class 55 Rating, Add	*776.42*	
40 05 19 00-0306	EA	18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,058.97	838.94
		For Class 52 Rating, Deduct	*-526.66*	
		For Class 54 Rating, Add	*359.09*	
		For Class 55 Rating, Add	*798.13*	
40 05 19 00-0307	EA	18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,194.54	842.43
		For Class 52 Rating, Deduct	*-540.99*	
		For Class 54 Rating, Add	*368.86*	
		For Class 55 Rating, Add	*819.85*	
40 05 19 00-0308	EA	18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,330.11	845.92
		For Class 52 Rating, Deduct	*-555.33*	
		For Class 54 Rating, Add	*378.63*	
		For Class 55 Rating, Add	*841.57*	
40 05 19 00-0309	EA	18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,465.67	849.41
		For Class 52 Rating, Deduct	*-569.66*	
		For Class 54 Rating, Add	*388.40*	
		For Class 55 Rating, Add	*863.29*	
40 05 19 00-0310	EA	18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,601.25	852.90
		For Class 52 Rating, Deduct	*-583.99*	
		For Class 54 Rating, Add	*398.17*	
		For Class 55 Rating, Add	*885.01*	
40 05 19 00-0311	EA	18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,736.82	856.38
		For Class 52 Rating, Deduct	*-598.32*	
		For Class 54 Rating, Add	*407.94*	
		For Class 55 Rating, Add	*906.72*	
40 05 19 00-0312	EA	18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,872.39	859.87
		For Class 52 Rating, Deduct	*-612.65*	
		For Class 54 Rating, Add	*417.72*	
		For Class 55 Rating, Add	*928.44*	
40 05 19 00-0313	EA	18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,007.96	863.37
		For Class 52 Rating, Deduct	*-626.98*	
		For Class 54 Rating, Add	*427.49*	
		For Class 55 Rating, Add	*950.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0314	EA	18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,143.52	866.86
		For Class 52 Rating, Deduct	*-641.31*	
		For Class 54 Rating, Add	*437.26*	
		For Class 55 Rating, Add	*971.88*	
40 05 19 00-0315	EA	18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,279.09	870.35
		For Class 52 Rating, Deduct	*-655.64*	
		For Class 54 Rating, Add	*447.03*	
		For Class 55 Rating, Add	*993.60*	
40 05 19 00-0316	EA	18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,414.66	873.84
		For Class 52 Rating, Deduct	*-669.97*	
		For Class 54 Rating, Add	*456.80*	
		For Class 55 Rating, Add	*1,015.31*	
40 05 19 00-0317	EA	18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,550.24	877.33
		For Class 52 Rating, Deduct	*-684.30*	
		For Class 54 Rating, Add	*466.57*	
		For Class 55 Rating, Add	*1,037.03*	
40 05 19 00-0318	EA	18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,685.80	880.82
		For Class 52 Rating, Deduct	*-698.64*	
		For Class 54 Rating, Add	*476.34*	
		For Class 55 Rating, Add	*1,058.75*	
40 05 19 00-0319	EA	18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,821.37	884.31
		For Class 52 Rating, Deduct	*-712.97*	
		For Class 54 Rating, Add	*486.11*	
		For Class 55 Rating, Add	*1,080.47*	

40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0321	EA	20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,270.02	861.98
		For Class 52 Rating, Deduct	*-216.04*	
		For Class 54 Rating, Add	*147.30*	
		For Class 55 Rating, Add	*327.40*	
40 05 19 00-0322	EA	20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,425.12	865.47
		For Class 52 Rating, Deduct	*-232.52*	
		For Class 54 Rating, Add	*158.54*	
		For Class 55 Rating, Add	*352.37*	
40 05 19 00-0323	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,580.23	868.96
		For Class 52 Rating, Deduct	*-249.00*	
		For Class 54 Rating, Add	*169.77*	
		For Class 55 Rating, Add	*377.35*	
40 05 19 00-0324	EA	20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,735.35	872.45
		For Class 52 Rating, Deduct	*-265.48*	
		For Class 54 Rating, Add	*181.01*	
		For Class 55 Rating, Add	*402.33*	
40 05 19 00-0325	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,890.46	875.93
		For Class 52 Rating, Deduct	*-281.96*	
		For Class 54 Rating, Add	*192.25*	
		For Class 55 Rating, Add	*427.30*	
40 05 19 00-0326	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,045.57	879.42
		For Class 52 Rating, Deduct	*-298.44*	
		For Class 54 Rating, Add	*203.48*	
		For Class 55 Rating, Add	*452.28*	
40 05 19 00-0327	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,200.68	882.91
		For Class 52 Rating, Deduct	*-314.92*	
		For Class 54 Rating, Add	*214.72*	
		For Class 55 Rating, Add	*477.25*	
40 05 19 00-0328	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,355.79	886.40
		For Class 52 Rating, Deduct	*-331.40*	
		For Class 54 Rating, Add	*225.96*	
		For Class 55 Rating, Add	*502.23*	
40 05 19 00-0329	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,510.91	889.89
		For Class 52 Rating, Deduct	*-347.88*	
		For Class 54 Rating, Add	*237.19*	
		For Class 55 Rating, Add	*527.20*	
40 05 19 00-0330	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,666.02	893.38
		For Class 52 Rating, Deduct	*-364.37*	
		For Class 54 Rating, Add	*248.43*	
		For Class 55 Rating, Add	*552.18*	
40 05 19 00-0331	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,821.12	896.87
		For Class 52 Rating, Deduct	*-380.85*	
		For Class 54 Rating, Add	*259.67*	
		For Class 55 Rating, Add	*577.15*	
40 05 19 00-0332	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,976.24	900.36
		For Class 52 Rating, Deduct	*-397.33*	
		For Class 54 Rating, Add	*270.90*	
		For Class 55 Rating, Add	*602.13*	
40 05 19 00-0333	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,131.35	903.85
		For Class 52 Rating, Deduct	*-413.81*	
		For Class 54 Rating, Add	*282.14*	
		For Class 55 Rating, Add	*627.11*	
40 05 19 00-0334	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,286.46	907.34
		For Class 52 Rating, Deduct	*-430.29*	
		For Class 54 Rating, Add	*293.38*	
		For Class 55 Rating, Add	*652.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0335	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,441.58	910.83
		For Class 52 Rating, Deduct	*-446.77*	
		For Class 54 Rating, Add	*304.61*	
		For Class 55 Rating, Add	*677.06*	
40 05 19 00-0336	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,596.68	914.32
		For Class 52 Rating, Deduct	*-463.25*	
		For Class 54 Rating, Add	*315.85*	
		For Class 55 Rating, Add	*702.03*	
40 05 19 00-0337	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,751.80	917.81
		For Class 52 Rating, Deduct	*-479.73*	
		For Class 54 Rating, Add	*327.09*	
		For Class 55 Rating, Add	*727.01*	
40 05 19 00-0338	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,906.91	921.29
		For Class 52 Rating, Deduct	*-496.21*	
		For Class 54 Rating, Add	*338.33*	
		For Class 55 Rating, Add	*751.98*	
40 05 19 00-0339	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,062.02	924.78
		For Class 52 Rating, Deduct	*-512.69*	
		For Class 54 Rating, Add	*349.56*	
		For Class 55 Rating, Add	*776.96*	
40 05 19 00-0340	EA	20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,217.13	928.28
		For Class 52 Rating, Deduct	*-529.17*	
		For Class 54 Rating, Add	*360.80*	
		For Class 55 Rating, Add	*801.94*	
40 05 19 00-0341	EA	20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,372.24	931.77
		For Class 52 Rating, Deduct	*-545.65*	
		For Class 54 Rating, Add	*372.04*	
		For Class 55 Rating, Add	*826.91*	
40 05 19 00-0342	EA	20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,527.36	935.26
		For Class 52 Rating, Deduct	*-562.13*	
		For Class 54 Rating, Add	*383.27*	
		For Class 55 Rating, Add	*851.89*	
40 05 19 00-0343	EA	20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,682.47	938.75
		For Class 52 Rating, Deduct	*-578.61*	
		For Class 54 Rating, Add	*394.51*	
		For Class 55 Rating, Add	*876.86*	
40 05 19 00-0344	EA	20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,837.58	942.24
		For Class 52 Rating, Deduct	*-595.09*	
		For Class 54 Rating, Add	*405.75*	
		For Class 55 Rating, Add	*901.84*	
40 05 19 00-0345	EA	20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,992.69	945.73
		For Class 52 Rating, Deduct	*-611.57*	
		For Class 54 Rating, Add	*416.98*	
		For Class 55 Rating, Add	*926.81*	
40 05 19 00-0346	EA	20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,147.80	949.22
		For Class 52 Rating, Deduct	*-628.05*	
		For Class 54 Rating, Add	*428.22*	
		For Class 55 Rating, Add	*951.79*	
40 05 19 00-0347	EA	20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,302.92	952.71
		For Class 52 Rating, Deduct	*-644.54*	
		For Class 54 Rating, Add	*439.46*	
		For Class 55 Rating, Add	*976.77*	
40 05 19 00-0348	EA	20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,458.03	956.20
		For Class 52 Rating, Deduct	*-661.02*	
		For Class 54 Rating, Add	*450.69*	
		For Class 55 Rating, Add	*1,001.74*	
40 05 19 00-0349	EA	20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,613.13	959.69
		For Class 52 Rating, Deduct	*-677.50*	
		For Class 54 Rating, Add	*461.93*	
		For Class 55 Rating, Add	*1,026.72*	
40 05 19 00-0350	EA	20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,768.25	963.17
		For Class 52 Rating, Deduct	*-693.98*	
		For Class 54 Rating, Add	*473.17*	
		For Class 55 Rating, Add	*1,051.69*	
40 05 19 00-0351	EA	20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,923.35	966.66
		For Class 52 Rating, Deduct	*-710.46*	
		For Class 54 Rating, Add	*484.40*	
		For Class 55 Rating, Add	*1,076.67*	
40 05 19 00-0352	EA	20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,078.46	970.15
		For Class 52 Rating, Deduct	*-726.94*	
		For Class 54 Rating, Add	*495.64*	
		For Class 55 Rating, Add	*1,101.64*	
40 05 19 00-0353	EA	20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,233.58	973.64
		For Class 52 Rating, Deduct	*-743.42*	
		For Class 54 Rating, Add	*506.88*	
		For Class 55 Rating, Add	*1,126.62*	
40 05 19 00-0354	EA	20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,388.68	977.13
		For Class 52 Rating, Deduct	*-759.90*	
		For Class 54 Rating, Add	*518.11*	
		For Class 55 Rating, Add	*1,151.59*	
40 05 19 00-0355	EA	20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,543.80	980.62
		For Class 52 Rating, Deduct	*-776.38*	
		For Class 54 Rating, Add	*529.35*	
		For Class 55 Rating, Add	*1,176.57*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0356	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,698.91	984.11
		For Class 52 Rating, Deduct	*-792.86*	
		For Class 54 Rating, Add	*540.59*	
		For Class 55 Rating, Add	*1,201.55*	
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,854.02	987.60
		For Class 52 Rating, Deduct	*-809.34*	
		For Class 54 Rating, Add	*551.82*	
		For Class 55 Rating, Add	*1,226.52*	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,009.13	991.10
		For Class 52 Rating, Deduct	*-825.82*	
		For Class 54 Rating, Add	*563.06*	
		For Class 55 Rating, Add	*1,251.50*	

40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,995.43	1,019.01
		For Class 52 Rating, Deduct	*-269.66*	
		For Class 54 Rating, Add	*183.86*	
		For Class 55 Rating, Add	*408.66*	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,186.36	1,022.50
		For Class 52 Rating, Deduct	*-290.08*	
		For Class 54 Rating, Add	*197.78*	
		For Class 55 Rating, Add	*439.61*	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,377.30	1,025.99
		For Class 52 Rating, Deduct	*-310.50*	
		For Class 54 Rating, Add	*211.71*	
		For Class 55 Rating, Add	*470.56*	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,568.24	1,029.48
		For Class 52 Rating, Deduct	*-330.93*	
		For Class 54 Rating, Add	*225.63*	
		For Class 55 Rating, Add	*501.50*	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,759.18	1,032.97
		For Class 52 Rating, Deduct	*-351.35*	
		For Class 54 Rating, Add	*239.56*	
		For Class 55 Rating, Add	*532.45*	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,950.12	1,036.46
		For Class 52 Rating, Deduct	*-371.77*	
		For Class 54 Rating, Add	*253.48*	
		For Class 55 Rating, Add	*563.40*	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,141.05	1,039.95
		For Class 52 Rating, Deduct	*-392.19*	
		For Class 54 Rating, Add	*267.40*	
		For Class 55 Rating, Add	*594.35*	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,331.99	1,043.44
		For Class 52 Rating, Deduct	*-412.61*	
		For Class 54 Rating, Add	*281.33*	
		For Class 55 Rating, Add	*625.30*	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,522.94	1,046.93
		For Class 52 Rating, Deduct	*-433.03*	
		For Class 54 Rating, Add	*295.25*	
		For Class 55 Rating, Add	*656.24*	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,713.88	1,050.42
		For Class 52 Rating, Deduct	*-453.46*	
		For Class 54 Rating, Add	*309.17*	
		For Class 55 Rating, Add	*687.19*	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,904.82	1,053.91
		For Class 52 Rating, Deduct	*-473.88*	
		For Class 54 Rating, Add	*323.10*	
		For Class 55 Rating, Add	*718.14*	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,095.75	1,057.40
		For Class 52 Rating, Deduct	*-494.30*	
		For Class 54 Rating, Add	*337.02*	
		For Class 55 Rating, Add	*749.09*	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,286.69	1,060.89
		For Class 52 Rating, Deduct	*-514.72*	
		For Class 54 Rating, Add	*350.95*	
		For Class 55 Rating, Add	*780.04*	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,477.63	1,064.38
		For Class 52 Rating, Deduct	*-535.14*	
		For Class 54 Rating, Add	*364.87*	
		For Class 55 Rating, Add	*810.98*	
40 05 19 00-0374	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,668.57	1,067.87
		For Class 52 Rating, Deduct	*-555.56*	
		For Class 54 Rating, Add	*378.79*	
		For Class 55 Rating, Add	*841.93*	
40 05 19 00-0375	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,859.50	1,071.36
		For Class 52 Rating, Deduct	*-575.99*	
		For Class 54 Rating, Add	*392.72*	
		For Class 55 Rating, Add	*872.88*	
40 05 19 00-0376	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,050.45	1,074.85
		For Class 52 Rating, Deduct	*-596.41*	
		For Class 54 Rating, Add	*406.64*	
		For Class 55 Rating, Add	*903.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0377	EA	24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,241.39	1,078.34
		For Class 52 Rating, Deduct	*-616.83*	
		For Class 54 Rating, Add	*420.57*	
		For Class 55 Rating, Add	*934.78*	
40 05 19 00-0378	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,432.33	1,081.83
		For Class 52 Rating, Deduct	*-637.25*	
		For Class 54 Rating, Add	*434.49*	
		For Class 55 Rating, Add	*965.72*	
40 05 19 00-0379	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,623.27	1,085.32
		For Class 52 Rating, Deduct	*-657.67*	
		For Class 54 Rating, Add	*448.41*	
		For Class 55 Rating, Add	*996.67*	
40 05 19 00-0380	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,814.20	1,088.81
		For Class 52 Rating, Deduct	*-678.09*	
		For Class 54 Rating, Add	*462.34*	
		For Class 55 Rating, Add	*1,027.62*	
40 05 19 00-0381	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,005.13	1,092.30
		For Class 52 Rating, Deduct	*-698.52*	
		For Class 54 Rating, Add	*476.26*	
		For Class 55 Rating, Add	*1,058.57*	
40 05 19 00-0382	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,196.07	1,095.79
		For Class 52 Rating, Deduct	*-718.94*	
		For Class 54 Rating, Add	*490.18*	
		For Class 55 Rating, Add	*1,089.52*	
40 05 19 00-0383	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,387.01	1,099.27
		For Class 52 Rating, Deduct	*-739.36*	
		For Class 54 Rating, Add	*504.11*	
		For Class 55 Rating, Add	*1,120.46*	
40 05 19 00-0384	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,577.95	1,102.76
		For Class 52 Rating, Deduct	*-759.78*	
		For Class 54 Rating, Add	*518.03*	
		For Class 55 Rating, Add	*1,151.41*	
40 05 19 00-0385	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,768.89	1,106.25
		For Class 52 Rating, Deduct	*-780.20*	
		For Class 54 Rating, Add	*531.96*	
		For Class 55 Rating, Add	*1,182.36*	
40 05 19 00-0386	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,959.83	1,109.74
		For Class 52 Rating, Deduct	*-800.62*	
		For Class 54 Rating, Add	*545.88*	
		For Class 55 Rating, Add	*1,213.31*	
40 05 19 00-0387	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,150.77	1,113.23
		For Class 52 Rating, Deduct	*-821.05*	
		For Class 54 Rating, Add	*559.80*	
		For Class 55 Rating, Add	*1,244.26*	
40 05 19 00-0388	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,341.71	1,116.72
		For Class 52 Rating, Deduct	*-841.47*	
		For Class 54 Rating, Add	*573.73*	
		For Class 55 Rating, Add	*1,275.20*	
40 05 19 00-0389	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,622.54	1,179.54
		For Class 52 Rating, Deduct	*-861.89*	
		For Class 54 Rating, Add	*587.65*	
		For Class 55 Rating, Add	*1,306.15*	
40 05 19 00-0390	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,813.47	1,183.04
		For Class 52 Rating, Deduct	*-882.31*	
		For Class 54 Rating, Add	*601.58*	
		For Class 55 Rating, Add	*1,337.10*	
40 05 19 00-0391	EA	24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,004.42	1,186.53
		For Class 52 Rating, Deduct	*-902.73*	
		For Class 54 Rating, Add	*615.50*	
		For Class 55 Rating, Add	*1,368.05*	
40 05 19 00-0392	EA	24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,195.36	1,190.01
		For Class 52 Rating, Deduct	*-923.15*	
		For Class 54 Rating, Add	*629.42*	
		For Class 55 Rating, Add	*1,399.00*	
40 05 19 00-0393	EA	24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,386.30	1,193.50
		For Class 52 Rating, Deduct	*-943.58*	
		For Class 54 Rating, Add	*643.35*	
		For Class 55 Rating, Add	*1,429.95*	
40 05 19 00-0394	EA	24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,577.23	1,196.99
		For Class 52 Rating, Deduct	*-964.00*	
		For Class 54 Rating, Add	*657.27*	
		For Class 55 Rating, Add	*1,460.89*	
40 05 19 00-0395	EA	24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,768.17	1,200.48
		For Class 52 Rating, Deduct	*-984.42*	
		For Class 54 Rating, Add	*671.19*	
		For Class 55 Rating, Add	*1,491.84*	
40 05 19 00-0396	EA	24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,959.11	1,203.97
		For Class 52 Rating, Deduct	*-1,004.84*	
		For Class 54 Rating, Add	*685.12*	
		For Class 55 Rating, Add	*1,522.79*	
40 05 19 00-0397	EA	24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,150.05	1,207.46
		For Class 52 Rating, Deduct	*-1,025.26*	
		For Class 54 Rating, Add	*699.04*	
		For Class 55 Rating, Add	*1,553.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0398		30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*		
40 05 19 00-0399	EA	30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,076.05	1,437.79
		For Class 52 Rating, Deduct	*-428.73*	
		For Class 54 Rating, Add	*292.32*	
		For Class 55 Rating, Add	*649.73*	
40 05 19 00-0400	EA	30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,349.50	1,441.28
		For Class 52 Rating, Deduct	*-458.23*	
		For Class 54 Rating, Add	*312.43*	
		For Class 55 Rating, Add	*694.43*	
40 05 19 00-0401	EA	30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,622.96	1,444.77
		For Class 52 Rating, Deduct	*-487.73*	
		For Class 54 Rating, Add	*332.54*	
		For Class 55 Rating, Add	*739.13*	
40 05 19 00-0402	EA	30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,896.41	1,448.26
		For Class 52 Rating, Deduct	*-517.23*	
		For Class 54 Rating, Add	*352.66*	
		For Class 55 Rating, Add	*783.84*	
40 05 19 00-0403	EA	30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,169.85	1,451.75
		For Class 52 Rating, Deduct	*-546.73*	
		For Class 54 Rating, Add	*372.77*	
		For Class 55 Rating, Add	*828.54*	
40 05 19 00-0404	EA	30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,443.31	1,455.24
		For Class 52 Rating, Deduct	*-576.23*	
		For Class 54 Rating, Add	*392.88*	
		For Class 55 Rating, Add	*873.24*	
40 05 19 00-0405	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,716.76	1,458.72
		For Class 52 Rating, Deduct	*-605.72*	
		For Class 54 Rating, Add	*412.99*	
		For Class 55 Rating, Add	*917.95*	
40 05 19 00-0406	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,990.21	1,462.21
		For Class 52 Rating, Deduct	*-635.22*	
		For Class 54 Rating, Add	*433.10*	
		For Class 55 Rating, Add	*962.65*	
40 05 19 00-0407	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,263.66	1,465.70
		For Class 52 Rating, Deduct	*-664.72*	
		For Class 54 Rating, Add	*453.22*	
		For Class 55 Rating, Add	*1,007.35*	
40 05 19 00-0408	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,537.11	1,469.19
		For Class 52 Rating, Deduct	*-694.22*	
		For Class 54 Rating, Add	*473.33*	
		For Class 55 Rating, Add	*1,052.05*	
40 05 19 00-0409	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,810.56	1,472.68
		For Class 52 Rating, Deduct	*-723.71*	
		For Class 54 Rating, Add	*493.44*	
		For Class 55 Rating, Add	*1,096.76*	
40 05 19 00-0410	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,084.01	1,476.17
		For Class 52 Rating, Deduct	*-753.21*	
		For Class 54 Rating, Add	*513.55*	
		For Class 55 Rating, Add	*1,141.46*	
40 05 19 00-0411	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,357.46	1,479.66
		For Class 52 Rating, Deduct	*-782.71*	
		For Class 54 Rating, Add	*533.67*	
		For Class 55 Rating, Add	*1,186.16*	
40 05 19 00-0412	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,630.90	1,483.15
		For Class 52 Rating, Deduct	*-812.21*	
		For Class 54 Rating, Add	*553.78*	
		For Class 55 Rating, Add	*1,230.86*	
40 05 19 00-0413	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,904.35	1,486.64
		For Class 52 Rating, Deduct	*-841.71*	
		For Class 54 Rating, Add	*573.89*	
		For Class 55 Rating, Add	*1,275.57*	
40 05 19 00-0414	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,177.81	1,490.13
		For Class 52 Rating, Deduct	*-871.20*	
		For Class 54 Rating, Add	*594.00*	
		For Class 55 Rating, Add	*1,320.27*	
40 05 19 00-0415	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,451.26	1,493.62
		For Class 52 Rating, Deduct	*-900.70*	
		For Class 54 Rating, Add	*614.12*	
		For Class 55 Rating, Add	*1,364.97*	
40 05 19 00-0416	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,724.71	1,497.11
		For Class 52 Rating, Deduct	*-930.20*	
		For Class 54 Rating, Add	*634.23*	
		For Class 55 Rating, Add	*1,409.68*	
40 05 19 00-0417	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,998.15	1,500.60
		For Class 52 Rating, Deduct	*-959.70*	
		For Class 54 Rating, Add	*654.34*	
		For Class 55 Rating, Add	*1,454.38*	
40 05 19 00-0418	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,271.61	1,504.09
		For Class 52 Rating, Deduct	*-989.20*	
		For Class 54 Rating, Add	*674.45*	
		For Class 55 Rating, Add	*1,499.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0419	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,545.06	1,507.58
		For Class 52 Rating, Deduct	*-1,018.69*	
		For Class 54 Rating, Add	*694.56*	
		For Class 55 Rating, Add	*1,543.78*	
40 05 19 00-0420	EA	30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,818.51	1,511.07
		For Class 52 Rating, Deduct	*-1,048.19*	
		For Class 54 Rating, Add	*714.68*	
		For Class 55 Rating, Add	*1,588.49*	
40 05 19 00-0421	EA	30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,091.96	1,514.56
		For Class 52 Rating, Deduct	*-1,077.69*	
		For Class 54 Rating, Add	*734.79*	
		For Class 55 Rating, Add	*1,633.19*	
40 05 19 00-0422	EA	30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,365.41	1,518.05
		For Class 52 Rating, Deduct	*-1,107.19*	
		For Class 54 Rating, Add	*754.90*	
		For Class 55 Rating, Add	*1,677.89*	
40 05 19 00-0423	EA	30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,637.78	1,521.54
		For Class 52 Rating, Deduct	*-1,136.57*	
		For Class 54 Rating, Add	*774.93*	
		For Class 55 Rating, Add	*1,722.41*	
40 05 19 00-0424	EA	30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,912.32	1,525.03
		For Class 52 Rating, Deduct	*-1,166.18*	
		For Class 54 Rating, Add	*795.13*	
		For Class 55 Rating, Add	*1,767.30*	
40 05 19 00-0425	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,185.77	1,528.52
		For Class 52 Rating, Deduct	*-1,195.68*	
		For Class 54 Rating, Add	*815.24*	
		For Class 55 Rating, Add	*1,812.00*	
40 05 19 00-0426	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,459.21	1,532.01
		For Class 52 Rating, Deduct	*-1,225.18*	
		For Class 54 Rating, Add	*835.35*	
		For Class 55 Rating, Add	*1,856.70*	
40 05 19 00-0427	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,732.66	1,535.50
		For Class 52 Rating, Deduct	*-1,254.68*	
		For Class 54 Rating, Add	*855.46*	
		For Class 55 Rating, Add	*1,901.41*	
40 05 19 00-0428	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,006.12	1,538.99
		For Class 52 Rating, Deduct	*-1,284.18*	
		For Class 54 Rating, Add	*875.57*	
		For Class 55 Rating, Add	*1,946.11*	
40 05 19 00-0429	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,279.57	1,542.48
		For Class 52 Rating, Deduct	*-1,313.67*	
		For Class 54 Rating, Add	*895.69*	
		For Class 55 Rating, Add	*1,990.81*	
40 05 19 00-0430	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,553.01	1,545.96
		For Class 52 Rating, Deduct	*-1,343.17*	
		For Class 54 Rating, Add	*915.80*	
		For Class 55 Rating, Add	*2,035.51*	
40 05 19 00-0431	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,826.47	1,549.45
		For Class 52 Rating, Deduct	*-1,372.67*	
		For Class 54 Rating, Add	*935.91*	
		For Class 55 Rating, Add	*2,080.22*	
40 05 19 00-0432	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,099.92	1,552.94
		For Class 52 Rating, Deduct	*-1,402.17*	
		For Class 54 Rating, Add	*956.02*	
		For Class 55 Rating, Add	*2,124.92*	
40 05 19 00-0433	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,373.37	1,556.43
		For Class 52 Rating, Deduct	*-1,431.66*	
		For Class 54 Rating, Add	*976.13*	
		For Class 55 Rating, Add	*2,169.62*	
40 05 19 00-0434	EA	30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,646.82	1,559.92
		For Class 52 Rating, Deduct	*-1,461.16*	
		For Class 54 Rating, Add	*996.25*	
		For Class 55 Rating, Add	*2,214.32*	
40 05 19 00-0435	EA	30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,920.27	1,563.41
		For Class 52 Rating, Deduct	*-1,490.66*	
		For Class 54 Rating, Add	*1,016.36*	
		For Class 55 Rating, Add	*2,259.03*	
40 05 19 00-0436	EA	30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,193.72	1,566.91
		For Class 52 Rating, Deduct	*-1,520.16*	
		For Class 54 Rating, Add	*1,036.47*	
		For Class 55 Rating, Add	*2,303.73*	

40 05 19 00-0437 36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0438	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,337.23	1,821.66
		For Class 52 Rating, Deduct	*-613.49*	
		For Class 54 Rating, Add	*418.29*	
		For Class 55 Rating, Add	*929.71*	
40 05 19 00-0439	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,707.31	1,825.15
		For Class 52 Rating, Deduct	*-653.61*	
		For Class 54 Rating, Add	*445.64*	
		For Class 55 Rating, Add	*990.52*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0440	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,077.39	1,828.64
		For Class 52 Rating, Deduct	*-693.74*	
		For Class 54 Rating, Add	*473.00*	
		For Class 55 Rating, Add	*1,051.33*	
40 05 19 00-0441	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,447.45	1,832.13
		For Class 52 Rating, Deduct	*-733.87*	
		For Class 54 Rating, Add	*500.36*	
		For Class 55 Rating, Add	*1,112.14*	
40 05 19 00-0442	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,817.53	1,835.62
		For Class 52 Rating, Deduct	*-773.99*	
		For Class 54 Rating, Add	*527.72*	
		For Class 55 Rating, Add	*1,172.95*	
40 05 19 00-0443	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,187.61	1,839.11
		For Class 52 Rating, Deduct	*-814.12*	
		For Class 54 Rating, Add	*555.08*	
		For Class 55 Rating, Add	*1,233.76*	
40 05 19 00-0444	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,557.69	1,842.60
		For Class 52 Rating, Deduct	*-854.25*	
		For Class 54 Rating, Add	*582.44*	
		For Class 55 Rating, Add	*1,294.57*	
40 05 19 00-0445	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,927.77	1,846.09
		For Class 52 Rating, Deduct	*-894.37*	
		For Class 54 Rating, Add	*609.80*	
		For Class 55 Rating, Add	*1,355.38*	
40 05 19 00-0446	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,297.84	1,849.58
		For Class 52 Rating, Deduct	*-934.50*	
		For Class 54 Rating, Add	*637.16*	
		For Class 55 Rating, Add	*1,416.19*	
40 05 19 00-0447	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,667.91	1,853.07
		For Class 52 Rating, Deduct	*-974.63*	
		For Class 54 Rating, Add	*664.52*	
		For Class 55 Rating, Add	*1,477.00*	
40 05 19 00-0448	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,037.99	1,856.56
		For Class 52 Rating, Deduct	*-1,014.75*	
		For Class 54 Rating, Add	*691.88*	
		For Class 55 Rating, Add	*1,537.81*	
40 05 19 00-0449	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,408.07	1,860.04
		For Class 52 Rating, Deduct	*-1,054.88*	
		For Class 54 Rating, Add	*719.24*	
		For Class 55 Rating, Add	*1,598.62*	
40 05 19 00-0450	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,778.14	1,863.53
		For Class 52 Rating, Deduct	*-1,095.01*	
		For Class 54 Rating, Add	*746.60*	
		For Class 55 Rating, Add	*1,659.43*	
40 05 19 00-0451	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,148.21	1,867.02
		For Class 52 Rating, Deduct	*-1,135.13*	
		For Class 54 Rating, Add	*773.95*	
		For Class 55 Rating, Add	*1,720.24*	
40 05 19 00-0452	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,518.29	1,870.51
		For Class 52 Rating, Deduct	*-1,175.26*	
		For Class 54 Rating, Add	*801.31*	
		For Class 55 Rating, Add	*1,781.05*	
40 05 19 00-0453	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,888.37	1,874.00
		For Class 52 Rating, Deduct	*-1,215.39*	
		For Class 54 Rating, Add	*828.67*	
		For Class 55 Rating, Add	*1,841.86*	
40 05 19 00-0454	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,258.44	1,877.49
		For Class 52 Rating, Deduct	*-1,255.51*	
		For Class 54 Rating, Add	*856.03*	
		For Class 55 Rating, Add	*1,902.67*	
40 05 19 00-0455	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,628.51	1,880.98
		For Class 52 Rating, Deduct	*-1,295.64*	
		For Class 54 Rating, Add	*883.39*	
		For Class 55 Rating, Add	*1,963.48*	
40 05 19 00-0456	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,998.59	1,884.48
		For Class 52 Rating, Deduct	*-1,335.77*	
		For Class 54 Rating, Add	*910.75*	
		For Class 55 Rating, Add	*2,024.29*	
40 05 19 00-0457	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,368.67	1,887.97
		For Class 52 Rating, Deduct	*-1,375.89*	
		For Class 54 Rating, Add	*938.11*	
		For Class 55 Rating, Add	*2,085.10*	
40 05 19 00-0458	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,738.75	1,891.46
		For Class 52 Rating, Deduct	*-1,416.02*	
		For Class 54 Rating, Add	*965.47*	
		For Class 55 Rating, Add	*2,145.91*	
40 05 19 00-0459	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,108.82	1,894.95
		For Class 52 Rating, Deduct	*-1,456.15*	
		For Class 54 Rating, Add	*992.83*	
		For Class 55 Rating, Add	*2,206.72*	
40 05 19 00-0460	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,478.89	1,898.44
		For Class 52 Rating, Deduct	*-1,496.27*	
		For Class 54 Rating, Add	*1,020.19*	
		For Class 55 Rating, Add	*2,267.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0461	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,848.97	1,901.93
		For Class 52 Rating, Deduct	*-1,536.40*	
		For Class 54 Rating, Add	*1,047.55*	
		For Class 55 Rating, Add	*2,328.34*	
40 05 19 00-0462	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,219.05	1,905.41
		For Class 52 Rating, Deduct	*-1,576.53*	
		For Class 54 Rating, Add	*1,074.90*	
		For Class 55 Rating, Add	*2,389.15*	
40 05 19 00-0463	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,589.13	1,908.90
		For Class 52 Rating, Deduct	*-1,616.65*	
		For Class 54 Rating, Add	*1,102.26*	
		For Class 55 Rating, Add	*2,449.96*	
40 05 19 00-0464	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,959.20	1,912.39
		For Class 52 Rating, Deduct	*-1,656.78*	
		For Class 54 Rating, Add	*1,129.62*	
		For Class 55 Rating, Add	*2,510.78*	
40 05 19 00-0465	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,329.28	1,915.88
		For Class 52 Rating, Deduct	*-1,696.91*	
		For Class 54 Rating, Add	*1,156.98*	
		For Class 55 Rating, Add	*2,571.59*	
40 05 19 00-0466	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,699.36	1,919.37
		For Class 52 Rating, Deduct	*-1,737.03*	
		For Class 54 Rating, Add	*1,184.34*	
		For Class 55 Rating, Add	*2,632.40*	
40 05 19 00-0467	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,069.43	1,922.86
		For Class 52 Rating, Deduct	*-1,777.16*	
		For Class 54 Rating, Add	*1,211.70*	
		For Class 55 Rating, Add	*2,693.21*	
40 05 19 00-0468	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,439.50	1,926.35
		For Class 52 Rating, Deduct	*-1,817.29*	
		For Class 54 Rating, Add	*1,239.06*	
		For Class 55 Rating, Add	*2,754.02*	
40 05 19 00-0469	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,809.58	1,929.84
		For Class 52 Rating, Deduct	*-1,857.41*	
		For Class 54 Rating, Add	*1,266.42*	
		For Class 55 Rating, Add	*2,814.83*	
40 05 19 00-0470	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,179.66	1,933.33
		For Class 52 Rating, Deduct	*-1,897.54*	
		For Class 54 Rating, Add	*1,293.78*	
		For Class 55 Rating, Add	*2,875.64*	
40 05 19 00-0471	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,549.74	1,936.82
		For Class 52 Rating, Deduct	*-1,937.67*	
		For Class 54 Rating, Add	*1,321.14*	
		For Class 55 Rating, Add	*2,936.45*	
40 05 19 00-0472	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,919.82	1,940.31
		For Class 52 Rating, Deduct	*-1,977.79*	
		For Class 54 Rating, Add	*1,348.50*	
		For Class 55 Rating, Add	*2,997.26*	
40 05 19 00-0473	EA	36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,289.89	1,943.80
		For Class 52 Rating, Deduct	*-2,017.92*	
		For Class 54 Rating, Add	*1,375.86*	
		For Class 55 Rating, Add	*3,058.07*	
40 05 19 00-0474	EA	36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,659.96	1,947.29
		For Class 52 Rating, Deduct	*-2,058.05*	
		For Class 54 Rating, Add	*1,403.21*	
		For Class 55 Rating, Add	*3,118.88*	
40 05 19 00-0475	EA	36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,030.04	1,950.78
		For Class 52 Rating, Deduct	*-2,098.17*	
		For Class 54 Rating, Add	*1,430.57*	
		For Class 55 Rating, Add	*3,179.69*	

40 05 19 00-0476 42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0477	EA	42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,919.35	2,296.27
		For Class 52 Rating, Deduct	*-818.42*	
		For Class 54 Rating, Add	*558.01*	
		For Class 55 Rating, Add	*1,240.27*	
40 05 19 00-0478	EA	42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,469.66	2,299.76
		For Class 52 Rating, Deduct	*-878.37*	
		For Class 54 Rating, Add	*598.89*	
		For Class 55 Rating, Add	*1,331.13*	
40 05 19 00-0479	EA	42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,013.44	2,303.25
		For Class 52 Rating, Deduct	*-937.60*	
		For Class 54 Rating, Add	*639.28*	
		For Class 55 Rating, Add	*1,420.90*	
40 05 19 00-0480	EA	42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,562.65	2,306.74
		For Class 52 Rating, Deduct	*-997.44*	
		For Class 54 Rating, Add	*680.07*	
		For Class 55 Rating, Add	*1,511.57*	
40 05 19 00-0481	EA	42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,106.44	2,310.22
		For Class 52 Rating, Deduct	*-1,056.67*	
		For Class 54 Rating, Add	*720.46*	
		For Class 55 Rating, Add	*1,601.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0482	EA	42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,656.74	2,313.71
		For Class 52 Rating, Deduct	*-1,116.62*	
		For Class 54 Rating, Add	*761.33*	
		For Class 55 Rating, Add	*1,692.19*	
40 05 19 00-0483	EA	42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,199.44	2,317.20
		For Class 52 Rating, Deduct	*-1,175.74*	
		For Class 54 Rating, Add	*801.64*	
		For Class 55 Rating, Add	*1,781.78*	
40 05 19 00-0484	EA	42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,749.74	2,320.69
		For Class 52 Rating, Deduct	*-1,235.69*	
		For Class 54 Rating, Add	*842.51*	
		For Class 55 Rating, Add	*1,872.63*	
40 05 19 00-0485	EA	42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,293.52	2,324.18
		For Class 52 Rating, Deduct	*-1,294.92*	
		For Class 54 Rating, Add	*882.90*	
		For Class 55 Rating, Add	*1,962.40*	
40 05 19 00-0486	EA	42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,842.73	2,327.67
		For Class 52 Rating, Deduct	*-1,354.75*	
		For Class 54 Rating, Add	*923.70*	
		For Class 55 Rating, Add	*2,053.07*	
40 05 19 00-0487	EA	42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,386.52	2,331.17
		For Class 52 Rating, Deduct	*-1,413.99*	
		For Class 54 Rating, Add	*964.08*	
		For Class 55 Rating, Add	*2,142.84*	
40 05 19 00-0488	EA	42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,935.74	2,334.66
		For Class 52 Rating, Deduct	*-1,473.82*	
		For Class 54 Rating, Add	*1,004.88*	
		For Class 55 Rating, Add	*2,233.51*	
40 05 19 00-0489	EA	42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,479.51	2,338.15
		For Class 52 Rating, Deduct	*-1,533.06*	
		For Class 54 Rating, Add	*1,045.27*	
		For Class 55 Rating, Add	*2,323.28*	
40 05 19 00-0490	EA	42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,024.39	2,341.64
		For Class 52 Rating, Deduct	*-1,592.41*	
		For Class 54 Rating, Add	*1,085.73*	
		For Class 55 Rating, Add	*2,413.23*	
40 05 19 00-0491	EA	42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,572.52	2,345.13
		For Class 52 Rating, Deduct	*-1,652.12*	
		For Class 54 Rating, Add	*1,126.45*	
		For Class 55 Rating, Add	*2,503.72*	
40 05 19 00-0492	EA	42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,116.30	2,348.62
		For Class 52 Rating, Deduct	*-1,711.36*	
		For Class 54 Rating, Add	*1,166.83*	
		For Class 55 Rating, Add	*2,593.48*	
40 05 19 00-0493	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,666.61	2,352.10
		For Class 52 Rating, Deduct	*-1,771.31*	
		For Class 54 Rating, Add	*1,207.71*	
		For Class 55 Rating, Add	*2,684.34*	
40 05 19 00-0494	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,210.38	2,355.59
		For Class 52 Rating, Deduct	*-1,830.54*	
		For Class 54 Rating, Add	*1,248.10*	
		For Class 55 Rating, Add	*2,774.10*	
40 05 19 00-0495	EA	42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,759.60	2,359.08
		For Class 52 Rating, Deduct	*-1,890.38*	
		For Class 54 Rating, Add	*1,288.89*	
		For Class 55 Rating, Add	*2,864.78*	
40 05 19 00-0496	EA	42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,303.39	2,362.57
		For Class 52 Rating, Deduct	*-1,949.61*	
		For Class 54 Rating, Add	*1,329.28*	
		For Class 55 Rating, Add	*2,954.55*	
40 05 19 00-0497	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,853.69	2,366.06
		For Class 52 Rating, Deduct	*-2,009.56*	
		For Class 54 Rating, Add	*1,370.16*	
		For Class 55 Rating, Add	*3,045.40*	
40 05 19 00-0498	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,397.46	2,369.55
		For Class 52 Rating, Deduct	*-2,068.80*	
		For Class 54 Rating, Add	*1,410.54*	
		For Class 55 Rating, Add	*3,135.17*	
40 05 19 00-0499	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,946.68	2,373.04
		For Class 52 Rating, Deduct	*-2,128.63*	
		For Class 54 Rating, Add	*1,451.34*	
		For Class 55 Rating, Add	*3,225.84*	
40 05 19 00-0500	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,490.47	2,376.53
		For Class 52 Rating, Deduct	*-2,187.86*	
		For Class 54 Rating, Add	*1,491.72*	
		For Class 55 Rating, Add	*3,315.61*	
40 05 19 00-0501	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,040.76	2,380.02
		For Class 52 Rating, Deduct	*-2,247.81*	
		For Class 54 Rating, Add	*1,532.60*	
		For Class 55 Rating, Add	*3,406.46*	
40 05 19 00-0502	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,584.55	2,383.51
		For Class 52 Rating, Deduct	*-2,307.05*	
		For Class 54 Rating, Add	*1,572.99*	
		For Class 55 Rating, Add	*3,496.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0503	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,132.67	2,387.00
		For Class 52 Rating, Deduct	*-2,366.76*	
		For Class 54 Rating, Add	*1,613.70*	
		For Class 55 Rating, Add	*3,586.72*	
40 05 19 00-0504	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,677.54	2,390.49
		For Class 52 Rating, Deduct	*-2,426.11*	
		For Class 54 Rating, Add	*1,654.17*	
		For Class 55 Rating, Add	*3,676.67*	
40 05 19 00-0505	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,112.76	2,393.99
		For Class 52 Rating, Deduct	*-2,473.41*	
		For Class 54 Rating, Add	*1,686.41*	
		For Class 55 Rating, Add	*3,748.34*	
40 05 19 00-0506	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,770.54	2,397.47
		For Class 52 Rating, Deduct	*-2,545.18*	
		For Class 54 Rating, Add	*1,735.35*	
		For Class 55 Rating, Add	*3,857.11*	
40 05 19 00-0507	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,314.32	2,400.96
		For Class 52 Rating, Deduct	*-2,604.42*	
		For Class 54 Rating, Add	*1,775.74*	
		For Class 55 Rating, Add	*3,946.87*	
40 05 19 00-0508	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,863.54	2,404.45
		For Class 52 Rating, Deduct	*-2,664.25*	
		For Class 54 Rating, Add	*1,816.53*	
		For Class 55 Rating, Add	*4,037.55*	
40 05 19 00-0509	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,407.32	2,407.94
		For Class 52 Rating, Deduct	*-2,723.48*	
		For Class 54 Rating, Add	*1,856.92*	
		For Class 55 Rating, Add	*4,127.31*	
40 05 19 00-0510	EA	42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,957.62	2,411.43
		For Class 52 Rating, Deduct	*-2,783.43*	
		For Class 54 Rating, Add	*1,897.80*	
		For Class 55 Rating, Add	*4,218.17*	
40 05 19 00-0511	EA	42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,500.33	2,414.92
		For Class 52 Rating, Deduct	*-2,842.55*	
		For Class 54 Rating, Add	*1,938.10*	
		For Class 55 Rating, Add	*4,307.75*	
40 05 19 00-0512	EA	42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,050.62	2,418.41
		For Class 52 Rating, Deduct	*-2,902.50*	
		For Class 54 Rating, Add	*1,978.98*	
		For Class 55 Rating, Add	*4,398.61*	
40 05 19 00-0513	EA	42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,594.40	2,421.90
		For Class 52 Rating, Deduct	*-2,961.73*	
		For Class 54 Rating, Add	*2,019.36*	
		For Class 55 Rating, Add	*4,488.37*	
40 05 19 00-0514	EA	42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,143.62	2,425.39
		For Class 52 Rating, Deduct	*-3,021.57*	
		For Class 54 Rating, Add	*2,060.16*	
		For Class 55 Rating, Add	*4,579.05*	

40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0002)*

40 05 19 00-0516	EA	48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,700.95	2,886.04
		For Class 52 Rating, Deduct	*-1,026.10*	
		For Class 54 Rating, Add	*699.61*	
		For Class 55 Rating, Add	*1,555.00*	
40 05 19 00-0517	EA	48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,499.87	2,889.52
		For Class 52 Rating, Deduct	*-1,113.40*	
		For Class 54 Rating, Add	*759.13*	
		For Class 55 Rating, Add	*1,687.30*	
40 05 19 00-0518	EA	48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,297.69	2,893.01
		For Class 52 Rating, Deduct	*-1,200.58*	
		For Class 54 Rating, Add	*818.58*	
		For Class 55 Rating, Add	*1,819.42*	
40 05 19 00-0519	EA	48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,102.04	2,896.50
		For Class 52 Rating, Deduct	*-1,288.47*	
		For Class 54 Rating, Add	*878.51*	
		For Class 55 Rating, Add	*1,952.62*	
40 05 19 00-0520	EA	48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,900.96	2,899.99
		For Class 52 Rating, Deduct	*-1,375.77*	
		For Class 54 Rating, Add	*938.03*	
		For Class 55 Rating, Add	*2,084.92*	
40 05 19 00-0521	EA	48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,699.89	2,903.48
		For Class 52 Rating, Deduct	*-1,463.07*	
		For Class 54 Rating, Add	*997.55*	
		For Class 55 Rating, Add	*2,217.22*	
40 05 19 00-0522	EA	48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,503.15	2,906.98
		For Class 52 Rating, Deduct	*-1,550.85*	
		For Class 54 Rating, Add	*1,057.40*	
		For Class 55 Rating, Add	*2,350.24*	
40 05 19 00-0523	EA	48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,303.15	2,910.47
		For Class 52 Rating, Deduct	*-1,638.27*	
		For Class 54 Rating, Add	*1,117.00*	
		For Class 55 Rating, Add	*2,482.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0524	EA	48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,100.98	2,913.96
		For Class 52 Rating, Deduct	*-1,725.45*	
		For Class 54 Rating, Add	*1,176.44*	
		For Class 55 Rating, Add	*2,614.84*	
40 05 19 00-0525	EA	48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,905.34	2,917.45
		For Class 52 Rating, Deduct	*-1,813.35*	
		For Class 54 Rating, Add	*1,236.37*	
		For Class 55 Rating, Add	*2,748.04*	
40 05 19 00-0526	EA	48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,704.26	2,920.94
		For Class 52 Rating, Deduct	*-1,900.65*	
		For Class 54 Rating, Add	*1,295.90*	
		For Class 55 Rating, Add	*2,880.34*	
40 05 19 00-0527	EA	48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,508.60	2,924.43
		For Class 52 Rating, Deduct	*-1,988.54*	
		For Class 54 Rating, Add	*1,355.82*	
		For Class 55 Rating, Add	*3,013.55*	
40 05 19 00-0528	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,306.43	2,927.92
		For Class 52 Rating, Deduct	*-2,075.72*	
		For Class 54 Rating, Add	*1,415.27*	
		For Class 55 Rating, Add	*3,145.66*	
40 05 19 00-0529	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,105.36	2,931.41
		For Class 52 Rating, Deduct	*-2,163.02*	
		For Class 54 Rating, Add	*1,474.79*	
		For Class 55 Rating, Add	*3,277.96*	
40 05 19 00-0530	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,909.71	2,934.89
		For Class 52 Rating, Deduct	*-2,250.92*	
		For Class 54 Rating, Add	*1,534.72*	
		For Class 55 Rating, Add	*3,411.17*	
40 05 19 00-0531	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,708.63	2,938.38
		For Class 52 Rating, Deduct	*-2,338.22*	
		For Class 54 Rating, Add	*1,594.24*	
		For Class 55 Rating, Add	*3,543.46*	
40 05 19 00-0532	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,506.46	2,941.87
		For Class 52 Rating, Deduct	*-2,425.40*	
		For Class 54 Rating, Add	*1,653.68*	
		For Class 55 Rating, Add	*3,675.58*	
40 05 19 00-0533	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,310.81	2,945.36
		For Class 52 Rating, Deduct	*-2,513.30*	
		For Class 54 Rating, Add	*1,713.61*	
		For Class 55 Rating, Add	*3,808.78*	
40 05 19 00-0534	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,109.73	2,948.85
		For Class 52 Rating, Deduct	*-2,600.59*	
		For Class 54 Rating, Add	*1,773.13*	
		For Class 55 Rating, Add	*3,941.08*	
40 05 19 00-0535	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,907.56	2,952.34
		For Class 52 Rating, Deduct	*-2,687.77*	
		For Class 54 Rating, Add	*1,832.57*	
		For Class 55 Rating, Add	*4,073.20*	
40 05 19 00-0536	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,711.90	2,955.83
		For Class 52 Rating, Deduct	*-2,775.67*	
		For Class 54 Rating, Add	*1,892.50*	
		For Class 55 Rating, Add	*4,206.40*	
40 05 19 00-0537	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,511.91	2,959.32
		For Class 52 Rating, Deduct	*-2,863.09*	
		For Class 54 Rating, Add	*1,952.11*	
		For Class 55 Rating, Add	*4,338.88*	
40 05 19 00-0538	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,309.75	2,962.81
		For Class 52 Rating, Deduct	*-2,950.27*	
		For Class 54 Rating, Add	*2,011.55*	
		For Class 55 Rating, Add	*4,471.00*	
40 05 19 00-0539	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,114.10	2,966.30
		For Class 52 Rating, Deduct	*-3,038.17*	
		For Class 54 Rating, Add	*2,071.48*	
		For Class 55 Rating, Add	*4,604.20*	
40 05 19 00-0540	EA	48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,913.02	2,969.80
		For Class 52 Rating, Deduct	*-3,125.47*	
		For Class 54 Rating, Add	*2,131.00*	
		For Class 55 Rating, Add	*4,736.50*	
40 05 19 00-0541	EA	48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,710.85	2,973.29
		For Class 52 Rating, Deduct	*-3,212.65*	
		For Class 54 Rating, Add	*2,190.44*	
		For Class 55 Rating, Add	*4,868.62*	
40 05 19 00-0542	EA	48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,515.20	2,976.78
		For Class 52 Rating, Deduct	*-3,300.54*	
		For Class 54 Rating, Add	*2,250.37*	
		For Class 55 Rating, Add	*5,001.82*	
40 05 19 00-0543	EA	48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,314.12	2,980.26
		For Class 52 Rating, Deduct	*-3,387.84*	
		For Class 54 Rating, Add	*2,309.89*	
		For Class 55 Rating, Add	*5,134.12*	
40 05 19 00-0544	EA	48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,015.33	2,983.75
		For Class 52 Rating, Deduct	*-3,464.39*	
		For Class 54 Rating, Add	*2,362.09*	
		For Class 55 Rating, Add	*5,250.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0545	EA	48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,917.39	2,987.24
		For Class 52 Rating, Deduct	*-3,563.04*	
		For Class 54 Rating, Add	*2,429.34*	
		For Class 55 Rating, Add	*5,399.62*	
40 05 19 00-0546	EA	48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,715.22	2,990.73
		For Class 52 Rating, Deduct	*-3,650.22*	
		For Class 54 Rating, Add	*2,488.79*	
		For Class 55 Rating, Add	*5,531.74*	
40 05 19 00-0547	EA	48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,520.66	2,994.22
		For Class 52 Rating, Deduct	*-3,738.24*	
		For Class 54 Rating, Add	*2,548.80*	
		For Class 55 Rating, Add	*5,665.13*	
40 05 19 00-0548	EA	48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,318.49	2,997.71
		For Class 52 Rating, Deduct	*-3,825.42*	
		For Class 54 Rating, Add	*2,608.24*	
		For Class 55 Rating, Add	*5,797.24*	
40 05 19 00-0549	EA	48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,116.33	3,001.20
		For Class 52 Rating, Deduct	*-3,912.60*	
		For Class 54 Rating, Add	*2,667.68*	
		For Class 55 Rating, Add	*5,929.36*	
40 05 19 00-0550	EA	48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,921.75	3,004.69
		For Class 52 Rating, Deduct	*-4,000.61*	
		For Class 54 Rating, Add	*2,727.69*	
		For Class 55 Rating, Add	*6,062.74*	
40 05 19 00-0551	EA	48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,719.59	3,008.18
		For Class 52 Rating, Deduct	*-4,087.79*	
		For Class 54 Rating, Add	*2,787.13*	
		For Class 55 Rating, Add	*6,194.86*	
40 05 19 00-0552	EA	48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,518.51	3,011.67
		For Class 52 Rating, Deduct	*-4,175.09*	
		For Class 54 Rating, Add	*2,846.65*	
		For Class 55 Rating, Add	*6,327.16*	
40 05 19 00-0553	EA	48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,322.86	3,015.16
		For Class 52 Rating, Deduct	*-4,262.99*	
		For Class 54 Rating, Add	*2,906.58*	
		For Class 55 Rating, Add	*6,460.36*	

40 05 19 00-0554 Flanged End x Grooved End (FxG), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0001)*

40 05 19 00-0555 4" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0556	EA	4" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	426.53	159.69
		For Class 52 Rating, Deduct	*-20.30*	
		For Class 54 Rating, Add	*13.84*	
		For Class 55 Rating, Add	*30.77*	
40 05 19 00-0557	EA	4" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	458.98	162.48
		For Class 52 Rating, Deduct	*-23.41*	
		For Class 54 Rating, Add	*15.96*	
		For Class 55 Rating, Add	*35.47*	
40 05 19 00-0558	EA	4" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	491.44	165.27
		For Class 52 Rating, Deduct	*-26.51*	
		For Class 54 Rating, Add	*18.08*	
		For Class 55 Rating, Add	*40.18*	
40 05 19 00-0559	EA	4" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	523.90	168.07
		For Class 52 Rating, Deduct	*-29.62*	
		For Class 54 Rating, Add	*20.19*	
		For Class 55 Rating, Add	*44.88*	
40 05 19 00-0560	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	556.35	170.86
		For Class 52 Rating, Deduct	*-32.72*	
		For Class 54 Rating, Add	*22.31*	
		For Class 55 Rating, Add	*49.59*	
40 05 19 00-0561	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	588.80	173.66
		For Class 52 Rating, Deduct	*-35.83*	
		For Class 54 Rating, Add	*24.43*	
		For Class 55 Rating, Add	*54.29*	
40 05 19 00-0562	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	621.27	176.45
		For Class 52 Rating, Deduct	*-38.93*	
		For Class 54 Rating, Add	*26.54*	
		For Class 55 Rating, Add	*59.00*	
40 05 19 00-0563	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	653.73	179.24
		For Class 52 Rating, Deduct	*-42.04*	
		For Class 54 Rating, Add	*28.66*	
		For Class 55 Rating, Add	*63.71*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0564	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	686.19	182.03
		For Class 52 Rating, Deduct	*-45.14*	
		For Class 54 Rating, Add	*30.78*	
		For Class 55 Rating, Add	*68.41*	
40 05 19 00-0565	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	718.64	184.82
		For Class 52 Rating, Deduct	*-48.25*	
		For Class 54 Rating, Add	*32.90*	
		For Class 55 Rating, Add	*73.12*	
40 05 19 00-0566	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	751.09	187.61
		For Class 52 Rating, Deduct	*-51.35*	
		For Class 54 Rating, Add	*35.01*	
		For Class 55 Rating, Add	*77.82*	
40 05 19 00-0567	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	783.56	190.41
		For Class 52 Rating, Deduct	*-54.46*	
		For Class 54 Rating, Add	*37.13*	
		For Class 55 Rating, Add	*82.53*	
40 05 19 00-0568	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	816.02	193.20
		For Class 52 Rating, Deduct	*-57.56*	
		For Class 54 Rating, Add	*39.25*	
		For Class 55 Rating, Add	*87.23*	
40 05 19 00-0569	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	848.48	195.99
		For Class 52 Rating, Deduct	*-60.67*	
		For Class 54 Rating, Add	*41.36*	
		For Class 55 Rating, Add	*91.94*	
40 05 19 00-0570	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	880.93	198.78
		For Class 52 Rating, Deduct	*-63.77*	
		For Class 54 Rating, Add	*43.48*	
		For Class 55 Rating, Add	*96.64*	
40 05 19 00-0571	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	913.38	201.57
		For Class 52 Rating, Deduct	*-66.88*	
		For Class 54 Rating, Add	*45.60*	
		For Class 55 Rating, Add	*101.35*	
40 05 19 00-0572	EA	4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	945.84	204.36
		For Class 52 Rating, Deduct	*-69.98*	
		For Class 54 Rating, Add	*47.72*	
		For Class 55 Rating, Add	*106.06*	
40 05 19 00-0573	EA	4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	978.31	207.15
		For Class 52 Rating, Deduct	*-73.09*	
		For Class 54 Rating, Add	*49.83*	
		For Class 55 Rating, Add	*110.76*	
40 05 19 00-0574	EA	4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,010.76	209.95
		For Class 52 Rating, Deduct	*-76.19*	
		For Class 54 Rating, Add	*51.95*	
		For Class 55 Rating, Add	*115.47*	
40 05 19 00-0575	EA	4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,043.22	212.74
		For Class 52 Rating, Deduct	*-79.30*	
		For Class 54 Rating, Add	*54.07*	
		For Class 55 Rating, Add	*120.17*	
40 05 19 00-0576	EA	4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,075.68	215.53
		For Class 52 Rating, Deduct	*-82.40*	
		For Class 54 Rating, Add	*56.18*	
		For Class 55 Rating, Add	*124.88*	
40 05 19 00-0577	EA	4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,108.13	218.32
		For Class 52 Rating, Deduct	*-85.51*	
		For Class 54 Rating, Add	*58.30*	
		For Class 55 Rating, Add	*129.58*	
40 05 19 00-0578	EA	4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,140.59	221.11
		For Class 52 Rating, Deduct	*-88.61*	
		For Class 54 Rating, Add	*60.42*	
		For Class 55 Rating, Add	*134.29*	
40 05 19 00-0579	EA	4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,173.05	223.90
		For Class 52 Rating, Deduct	*-91.72*	
		For Class 54 Rating, Add	*62.54*	
		For Class 55 Rating, Add	*138.99*	
40 05 19 00-0580	EA	4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,205.51	226.69
		For Class 52 Rating, Deduct	*-94.82*	
		For Class 54 Rating, Add	*64.65*	
		For Class 55 Rating, Add	*143.70*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0581	EA	4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,237.97	229.49
		For Class 52 Rating, Deduct	*-97.93*	
		For Class 54 Rating, Add	*66.77*	
		For Class 55 Rating, Add	*148.41*	
40 05 19 00-0582	EA	4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,270.43	232.28
		For Class 52 Rating, Deduct	*-101.03*	
		For Class 54 Rating, Add	*68.89*	
		For Class 55 Rating, Add	*153.11*	
40 05 19 00-0583	EA	4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,302.87	235.07
		For Class 52 Rating, Deduct	*-104.14*	
		For Class 54 Rating, Add	*71.00*	
		For Class 55 Rating, Add	*157.82*	
40 05 19 00-0584	EA	4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,335.34	237.87
		For Class 52 Rating, Deduct	*-107.24*	
		For Class 54 Rating, Add	*73.12*	
		For Class 55 Rating, Add	*162.52*	
40 05 19 00-0585	EA	4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,367.80	240.66
		For Class 52 Rating, Deduct	*-110.35*	
		For Class 54 Rating, Add	*75.24*	
		For Class 55 Rating, Add	*167.23*	
40 05 19 00-0586	EA	4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,400.26	243.45
		For Class 52 Rating, Deduct	*-113.45*	
		For Class 54 Rating, Add	*77.36*	
		For Class 55 Rating, Add	*171.93*	
40 05 19 00-0587	EA	4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,432.71	246.24
		For Class 52 Rating, Deduct	*-116.56*	
		For Class 54 Rating, Add	*79.47*	
		For Class 55 Rating, Add	*176.64*	
40 05 19 00-0588	EA	4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,465.16	249.04
		For Class 52 Rating, Deduct	*-119.66*	
		For Class 54 Rating, Add	*81.59*	
		For Class 55 Rating, Add	*181.34*	
40 05 19 00-0589	EA	4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,497.62	251.83
		For Class 52 Rating, Deduct	*-122.77*	
		For Class 54 Rating, Add	*83.71*	
		For Class 55 Rating, Add	*186.05*	
40 05 19 00-0590	EA	4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,530.09	254.62
		For Class 52 Rating, Deduct	*-125.87*	
		For Class 54 Rating, Add	*85.82*	
		For Class 55 Rating, Add	*190.76*	
40 05 19 00-0591	EA	4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,562.54	257.41
		For Class 52 Rating, Deduct	*-128.98*	
		For Class 54 Rating, Add	*87.94*	
		For Class 55 Rating, Add	*195.46*	
40 05 19 00-0592	EA	4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,595.00	260.20
		For Class 52 Rating, Deduct	*-132.08*	
		For Class 54 Rating, Add	*90.06*	
		For Class 55 Rating, Add	*200.17*	
40 05 19 00-0593	EA	4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,627.46	262.99
		For Class 52 Rating, Deduct	*-135.19*	
		For Class 54 Rating, Add	*92.17*	
		For Class 55 Rating, Add	*204.87*	
40 05 19 00-0594	EA	4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,659.91	265.78
		For Class 52 Rating, Deduct	*-138.29*	
		For Class 54 Rating, Add	*94.29*	
		For Class 55 Rating, Add	*209.58*	

40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0596	EA	6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	533.64	201.01
		For Class 52 Rating, Deduct	*-25.20*	
		For Class 54 Rating, Add	*17.18*	
		For Class 55 Rating, Add	*38.19*	
40 05 19 00-0597	EA	6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	572.61	203.80
		For Class 52 Rating, Deduct	*-29.02*	
		For Class 54 Rating, Add	*19.79*	
		For Class 55 Rating, Add	*43.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0598	EA	6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	611.58	206.59
		For Class 52 Rating, Deduct	*-32.84*	
		For Class 54 Rating, Add	*22.39*	
		For Class 55 Rating, Add	*49.77*	
40 05 19 00-0599	EA	6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	650.55	209.38
		For Class 52 Rating, Deduct	*-36.66*	
		For Class 54 Rating, Add	*25.00*	
		For Class 55 Rating, Add	*55.56*	
40 05 19 00-0600	EA	6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	689.54	212.17
		For Class 52 Rating, Deduct	*-40.49*	
		For Class 54 Rating, Add	*27.60*	
		For Class 55 Rating, Add	*61.35*	
40 05 19 00-0601	EA	6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	728.50	214.97
		For Class 52 Rating, Deduct	*-44.31*	
		For Class 54 Rating, Add	*30.21*	
		For Class 55 Rating, Add	*67.15*	
40 05 19 00-0602	EA	6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	767.47	217.76
		For Class 52 Rating, Deduct	*-48.13*	
		For Class 54 Rating, Add	*32.81*	
		For Class 55 Rating, Add	*72.94*	
40 05 19 00-0603	EA	6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	806.44	220.55
		For Class 52 Rating, Deduct	*-51.95*	
		For Class 54 Rating, Add	*35.42*	
		For Class 55 Rating, Add	*78.73*	
40 05 19 00-0604	EA	6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	845.41	223.35
		For Class 52 Rating, Deduct	*-55.77*	
		For Class 54 Rating, Add	*38.03*	
		For Class 55 Rating, Add	*84.52*	
40 05 19 00-0605	EA	6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	884.38	226.14
		For Class 52 Rating, Deduct	*-59.59*	
		For Class 54 Rating, Add	*40.63*	
		For Class 55 Rating, Add	*90.31*	
40 05 19 00-0606	EA	6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	923.37	228.93
		For Class 52 Rating, Deduct	*-63.42*	
		For Class 54 Rating, Add	*43.24*	
		For Class 55 Rating, Add	*96.10*	
40 05 19 00-0607	EA	6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	962.33	231.72
		For Class 52 Rating, Deduct	*-67.24*	
		For Class 54 Rating, Add	*45.84*	
		For Class 55 Rating, Add	*101.89*	
40 05 19 00-0608	EA	6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,001.30	234.52
		For Class 52 Rating, Deduct	*-71.06*	
		For Class 54 Rating, Add	*48.45*	
		For Class 55 Rating, Add	*107.68*	
40 05 19 00-0609	EA	6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,040.27	237.31
		For Class 52 Rating, Deduct	*-74.88*	
		For Class 54 Rating, Add	*51.05*	
		For Class 55 Rating, Add	*113.48*	
40 05 19 00-0610	EA	6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,079.24	240.10
		For Class 52 Rating, Deduct	*-78.70*	
		For Class 54 Rating, Add	*53.66*	
		For Class 55 Rating, Add	*119.27*	
40 05 19 00-0611	EA	6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,118.22	242.89
		For Class 52 Rating, Deduct	*-82.52*	
		For Class 54 Rating, Add	*56.27*	
		For Class 55 Rating, Add	*125.06*	
40 05 19 00-0612	EA	6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,157.19	245.68
		For Class 52 Rating, Deduct	*-86.34*	
		For Class 54 Rating, Add	*58.87*	
		For Class 55 Rating, Add	*130.85*	
40 05 19 00-0613	EA	6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,196.16	248.47
		For Class 52 Rating, Deduct	*-90.17*	
		For Class 54 Rating, Add	*61.48*	
		For Class 55 Rating, Add	*136.64*	
40 05 19 00-0614	EA	6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,235.13	251.26
		For Class 52 Rating, Deduct	*-93.99*	
		For Class 54 Rating, Add	*64.08*	
		For Class 55 Rating, Add	*142.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0615	EA	6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,274.10	254.06
		For Class 52 Rating, Deduct	*-97.81*	
		For Class 54 Rating, Add	*66.69*	
		For Class 55 Rating, Add	*148.22*	
40 05 19 00-0616	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,313.07	256.85
		For Class 52 Rating, Deduct	*-101.63*	
		For Class 54 Rating, Add	*69.29*	
		For Class 55 Rating, Add	*154.02*	
40 05 19 00-0617	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,352.06	259.64
		For Class 52 Rating, Deduct	*-105.45*	
		For Class 54 Rating, Add	*71.90*	
		For Class 55 Rating, Add	*159.81*	
40 05 19 00-0618	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,391.02	262.43
		For Class 52 Rating, Deduct	*-109.27*	
		For Class 54 Rating, Add	*74.51*	
		For Class 55 Rating, Add	*165.60*	
40 05 19 00-0619	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,429.99	265.22
		For Class 52 Rating, Deduct	*-113.10*	
		For Class 54 Rating, Add	*77.11*	
		For Class 55 Rating, Add	*171.39*	
40 05 19 00-0620	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,468.96	268.01
		For Class 52 Rating, Deduct	*-116.92*	
		For Class 54 Rating, Add	*79.72*	
		For Class 55 Rating, Add	*177.18*	
40 05 19 00-0621	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,507.93	270.80
		For Class 52 Rating, Deduct	*-120.74*	
		For Class 54 Rating, Add	*82.32*	
		For Class 55 Rating, Add	*182.97*	
40 05 19 00-0622	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,546.90	273.59
		For Class 52 Rating, Deduct	*-124.56*	
		For Class 54 Rating, Add	*84.93*	
		For Class 55 Rating, Add	*188.76*	
40 05 19 00-0623	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,585.89	276.39
		For Class 52 Rating, Deduct	*-128.38*	
		For Class 54 Rating, Add	*87.53*	
		For Class 55 Rating, Add	*194.56*	
40 05 19 00-0624	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,624.85	279.18
		For Class 52 Rating, Deduct	*-132.20*	
		For Class 54 Rating, Add	*90.14*	
		For Class 55 Rating, Add	*200.35*	
40 05 19 00-0625	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,663.82	281.97
		For Class 52 Rating, Deduct	*-136.02*	
		For Class 54 Rating, Add	*92.74*	
		For Class 55 Rating, Add	*206.14*	
40 05 19 00-0626	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,702.79	284.76
		For Class 52 Rating, Deduct	*-139.85*	
		For Class 54 Rating, Add	*95.35*	
		For Class 55 Rating, Add	*211.93*	
40 05 19 00-0627	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,741.76	287.55
		For Class 52 Rating, Deduct	*-143.67*	
		For Class 54 Rating, Add	*97.96*	
		For Class 55 Rating, Add	*217.72*	
40 05 19 00-0628	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,780.74	290.35
		For Class 52 Rating, Deduct	*-147.49*	
		For Class 54 Rating, Add	*100.56*	
		For Class 55 Rating, Add	*223.51*	
40 05 19 00-0629	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,819.72	293.14
		For Class 52 Rating, Deduct	*-151.31*	
		For Class 54 Rating, Add	*103.17*	
		For Class 55 Rating, Add	*229.31*	
40 05 19 00-0630	EA	6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,858.68	295.94
		For Class 52 Rating, Deduct	*-155.13*	
		For Class 54 Rating, Add	*105.77*	
		For Class 55 Rating, Add	*235.10*	
40 05 19 00-0631	EA	6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,897.65	298.73
		For Class 52 Rating, Deduct	*-158.95*	
		For Class 54 Rating, Add	*108.38*	
		For Class 55 Rating, Add	*240.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0632	EA	6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,936.62	301.52
		For Class 52 Rating, Deduct	*-162.78*	
		For Class 54 Rating, Add	*110.98*	
		For Class 55 Rating, Add	*246.68*	
40 05 19 00-0633	EA	6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,975.59	304.31
		For Class 52 Rating, Deduct	*-166.60*	
		For Class 54 Rating, Add	*113.59*	
		For Class 55 Rating, Add	*252.47*	
40 05 19 00-0634	EA	6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,014.58	307.10
		For Class 52 Rating, Deduct	*-170.42*	
		For Class 54 Rating, Add	*116.20*	
		For Class 55 Rating, Add	*258.26*	

40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0636	EA	8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	723.55	256.85
		For Class 52 Rating, Deduct	*-36.78*	
		For Class 54 Rating, Add	*25.08*	
		For Class 55 Rating, Add	*55.74*	
40 05 19 00-0637	EA	8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	775.56	259.64
		For Class 52 Rating, Deduct	*-42.04*	
		For Class 54 Rating, Add	*28.66*	
		For Class 55 Rating, Add	*63.71*	
40 05 19 00-0638	EA	8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	827.55	262.43
		For Class 52 Rating, Deduct	*-47.29*	
		For Class 54 Rating, Add	*32.24*	
		For Class 55 Rating, Add	*71.67*	
40 05 19 00-0639	EA	8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	879.55	265.22
		For Class 52 Rating, Deduct	*-52.55*	
		For Class 54 Rating, Add	*35.83*	
		For Class 55 Rating, Add	*79.63*	
40 05 19 00-0640	EA	8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	931.55	268.01
		For Class 52 Rating, Deduct	*-57.80*	
		For Class 54 Rating, Add	*39.41*	
		For Class 55 Rating, Add	*87.60*	
40 05 19 00-0641	EA	8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	983.55	270.80
		For Class 52 Rating, Deduct	*-63.06*	
		For Class 54 Rating, Add	*42.99*	
		For Class 55 Rating, Add	*95.56*	
40 05 19 00-0642	EA	8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,035.55	273.59
		For Class 52 Rating, Deduct	*-68.31*	
		For Class 54 Rating, Add	*46.58*	
		For Class 55 Rating, Add	*103.52*	
40 05 19 00-0643	EA	8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,087.56	276.39
		For Class 52 Rating, Deduct	*-73.57*	
		For Class 54 Rating, Add	*50.16*	
		For Class 55 Rating, Add	*111.49*	
40 05 19 00-0644	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,139.55	279.18
		For Class 52 Rating, Deduct	*-78.82*	
		For Class 54 Rating, Add	*53.74*	
		For Class 55 Rating, Add	*119.45*	
40 05 19 00-0645	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,191.55	281.97
		For Class 52 Rating, Deduct	*-84.08*	
		For Class 54 Rating, Add	*57.32*	
		For Class 55 Rating, Add	*127.41*	
40 05 19 00-0646	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,243.55	284.76
		For Class 52 Rating, Deduct	*-89.33*	
		For Class 54 Rating, Add	*60.91*	
		For Class 55 Rating, Add	*135.38*	
40 05 19 00-0647	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,295.55	287.55
		For Class 52 Rating, Deduct	*-94.58*	
		For Class 54 Rating, Add	*64.49*	
		For Class 55 Rating, Add	*143.34*	
40 05 19 00-0648	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,347.56	290.35
		For Class 52 Rating, Deduct	*-99.84*	
		For Class 54 Rating, Add	*68.07*	
		For Class 55 Rating, Add	*151.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0649	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,399.56	293.14
		For Class 52 Rating, Deduct	*-105.09*	
		For Class 54 Rating, Add	*71.66*	
		For Class 55 Rating, Add	*159.27*	
40 05 19 00-0650	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,451.55	295.94
		For Class 52 Rating, Deduct	*-110.35*	
		For Class 54 Rating, Add	*75.24*	
		For Class 55 Rating, Add	*167.23*	
40 05 19 00-0651	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,503.55	298.73
		For Class 52 Rating, Deduct	*-115.60*	
		For Class 54 Rating, Add	*78.82*	
		For Class 55 Rating, Add	*175.19*	
40 05 19 00-0652	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,555.55	301.52
		For Class 52 Rating, Deduct	*-120.86*	
		For Class 54 Rating, Add	*82.40*	
		For Class 55 Rating, Add	*183.15*	
40 05 19 00-0653	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,607.55	304.31
		For Class 52 Rating, Deduct	*-126.11*	
		For Class 54 Rating, Add	*85.99*	
		For Class 55 Rating, Add	*191.12*	
40 05 19 00-0654	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,659.56	307.10
		For Class 52 Rating, Deduct	*-131.37*	
		For Class 54 Rating, Add	*89.57*	
		For Class 55 Rating, Add	*199.08*	
40 05 19 00-0655	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,711.55	309.89
		For Class 52 Rating, Deduct	*-136.62*	
		For Class 54 Rating, Add	*93.15*	
		For Class 55 Rating, Add	*207.04*	
40 05 19 00-0656	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,763.55	312.68
		For Class 52 Rating, Deduct	*-141.88*	
		For Class 54 Rating, Add	*96.73*	
		For Class 55 Rating, Add	*215.01*	
40 05 19 00-0657	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,815.55	315.48
		For Class 52 Rating, Deduct	*-147.13*	
		For Class 54 Rating, Add	*100.32*	
		For Class 55 Rating, Add	*222.97*	
40 05 19 00-0658	EA	8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,867.55	318.27
		For Class 52 Rating, Deduct	*-152.39*	
		For Class 54 Rating, Add	*103.90*	
		For Class 55 Rating, Add	*230.93*	
40 05 19 00-0659	EA	8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,919.56	321.06
		For Class 52 Rating, Deduct	*-157.64*	
		For Class 54 Rating, Add	*107.48*	
		For Class 55 Rating, Add	*238.90*	
40 05 19 00-0660	EA	8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,971.56	323.85
		For Class 52 Rating, Deduct	*-162.90*	
		For Class 54 Rating, Add	*111.07*	
		For Class 55 Rating, Add	*246.86*	
40 05 19 00-0661	EA	8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,023.55	326.64
		For Class 52 Rating, Deduct	*-168.15*	
		For Class 54 Rating, Add	*114.65*	
		For Class 55 Rating, Add	*254.82*	
40 05 19 00-0662	EA	8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,075.55	329.43
		For Class 52 Rating, Deduct	*-173.41*	
		For Class 54 Rating, Add	*118.23*	
		For Class 55 Rating, Add	*262.79*	
40 05 19 00-0663	EA	8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,127.55	332.22
		For Class 52 Rating, Deduct	*-178.66*	
		For Class 54 Rating, Add	*121.81*	
		For Class 55 Rating, Add	*270.75*	
40 05 19 00-0664	EA	8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,179.55	335.02
		For Class 52 Rating, Deduct	*-183.91*	
		For Class 54 Rating, Add	*125.40*	
		For Class 55 Rating, Add	*278.71*	
40 05 19 00-0665	EA	8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,231.56	337.81
		For Class 52 Rating, Deduct	*-189.17*	
		For Class 54 Rating, Add	*128.98*	
		For Class 55 Rating, Add	*286.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0666	EA	8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,283.56	340.60
		For Class 52 Rating, Deduct	*-194.42*	
		For Class 54 Rating, Add	*132.56*	
		For Class 55 Rating, Add	*294.64*	
40 05 19 00-0667	EA	8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,335.55	343.39
		For Class 52 Rating, Deduct	*-199.68*	
		For Class 54 Rating, Add	*136.14*	
		For Class 55 Rating, Add	*302.60*	
40 05 19 00-0668	EA	8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,387.55	346.18
		For Class 52 Rating, Deduct	*-204.93*	
		For Class 54 Rating, Add	*139.73*	
		For Class 55 Rating, Add	*310.57*	
40 05 19 00-0669	EA	8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,439.55	348.97
		For Class 52 Rating, Deduct	*-210.19*	
		For Class 54 Rating, Add	*143.31*	
		For Class 55 Rating, Add	*318.53*	
40 05 19 00-0670	EA	8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,491.55	351.77
		For Class 52 Rating, Deduct	*-215.44*	
		For Class 54 Rating, Add	*146.89*	
		For Class 55 Rating, Add	*326.49*	
40 05 19 00-0671	EA	8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,543.56	354.56
		For Class 52 Rating, Deduct	*-220.70*	
		For Class 54 Rating, Add	*150.48*	
		For Class 55 Rating, Add	*334.46*	
40 05 19 00-0672	EA	8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,595.55	357.36
		For Class 52 Rating, Deduct	*-225.95*	
		For Class 54 Rating, Add	*154.06*	
		For Class 55 Rating, Add	*342.42*	
40 05 19 00-0673	EA	8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,647.55	360.15
		For Class 52 Rating, Deduct	*-231.21*	
		For Class 54 Rating, Add	*157.64*	
		For Class 55 Rating, Add	*350.38*	
40 05 19 00-0674	EA	8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,699.55	362.94
		For Class 52 Rating, Deduct	*-236.46*	
		For Class 54 Rating, Add	*161.22*	
		For Class 55 Rating, Add	*358.35*	

40 05 19 00-0675 10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0676	EA	10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	901.52	312.68
		For Class 52 Rating, Deduct	*-47.05*	
		For Class 54 Rating, Add	*32.08*	
		For Class 55 Rating, Add	*71.31*	
40 05 19 00-0677	EA	10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	968.72	315.48
		For Class 52 Rating, Deduct	*-53.98*	
		For Class 54 Rating, Add	*36.80*	
		For Class 55 Rating, Add	*81.80*	
40 05 19 00-0678	EA	10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,035.92	318.27
		For Class 52 Rating, Deduct	*-60.91*	
		For Class 54 Rating, Add	*41.53*	
		For Class 55 Rating, Add	*92.30*	
40 05 19 00-0679	EA	10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,103.13	321.06
		For Class 52 Rating, Deduct	*-67.83*	
		For Class 54 Rating, Add	*46.25*	
		For Class 55 Rating, Add	*102.80*	
40 05 19 00-0680	EA	10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,170.33	323.85
		For Class 52 Rating, Deduct	*-74.76*	
		For Class 54 Rating, Add	*50.97*	
		For Class 55 Rating, Add	*113.30*	
40 05 19 00-0681	EA	10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,237.52	326.64
		For Class 52 Rating, Deduct	*-81.69*	
		For Class 54 Rating, Add	*55.70*	
		For Class 55 Rating, Add	*123.79*	
40 05 19 00-0682	EA	10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,304.71	329.43
		For Class 52 Rating, Deduct	*-88.61*	
		For Class 54 Rating, Add	*60.42*	
		For Class 55 Rating, Add	*134.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0683	EA	10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,371.91	332.22
		For Class 52 Rating, Deduct	*-95.54*	
		For Class 54 Rating, Add	*65.14*	
		For Class 55 Rating, Add	*144.79*	
40 05 19 00-0684	EA	10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,439.11	335.02
		For Class 52 Rating, Deduct	*-102.47*	
		For Class 54 Rating, Add	*69.86*	
		For Class 55 Rating, Add	*155.28*	
40 05 19 00-0685	EA	10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,506.32	337.81
		For Class 52 Rating, Deduct	*-109.39*	
		For Class 54 Rating, Add	*74.59*	
		For Class 55 Rating, Add	*165.78*	
40 05 19 00-0686	EA	10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,573.52	340.60
		For Class 52 Rating, Deduct	*-116.32*	
		For Class 54 Rating, Add	*79.31*	
		For Class 55 Rating, Add	*176.28*	
40 05 19 00-0687	EA	10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,640.71	343.39
		For Class 52 Rating, Deduct	*-123.25*	
		For Class 54 Rating, Add	*84.03*	
		For Class 55 Rating, Add	*186.77*	
40 05 19 00-0688	EA	10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,707.91	346.18
		For Class 52 Rating, Deduct	*-130.17*	
		For Class 54 Rating, Add	*88.75*	
		For Class 55 Rating, Add	*197.27*	
40 05 19 00-0689	EA	10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,775.11	348.97
		For Class 52 Rating, Deduct	*-137.10*	
		For Class 54 Rating, Add	*93.48*	
		For Class 55 Rating, Add	*207.77*	
40 05 19 00-0690	EA	10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,842.31	351.77
		For Class 52 Rating, Deduct	*-144.03*	
		For Class 54 Rating, Add	*98.20*	
		For Class 55 Rating, Add	*218.27*	
40 05 19 00-0691	EA	10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,909.52	354.56
		For Class 52 Rating, Deduct	*-150.95*	
		For Class 54 Rating, Add	*102.92*	
		For Class 55 Rating, Add	*228.76*	
40 05 19 00-0692	EA	10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,976.71	357.36
		For Class 52 Rating, Deduct	*-157.88*	
		For Class 54 Rating, Add	*107.65*	
		For Class 55 Rating, Add	*239.26*	
40 05 19 00-0693	EA	10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,043.91	360.15
		For Class 52 Rating, Deduct	*-164.81*	
		For Class 54 Rating, Add	*112.37*	
		For Class 55 Rating, Add	*249.76*	
40 05 19 00-0694	EA	10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,111.11	362.94
		For Class 52 Rating, Deduct	*-171.73*	
		For Class 54 Rating, Add	*117.09*	
		For Class 55 Rating, Add	*260.25*	
40 05 19 00-0695	EA	10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,178.31	365.73
		For Class 52 Rating, Deduct	*-178.66*	
		For Class 54 Rating, Add	*121.81*	
		For Class 55 Rating, Add	*270.75*	
40 05 19 00-0696	EA	10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,245.52	368.52
		For Class 52 Rating, Deduct	*-185.59*	
		For Class 54 Rating, Add	*126.54*	
		For Class 55 Rating, Add	*281.25*	
40 05 19 00-0697	EA	10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,312.72	371.31
		For Class 52 Rating, Deduct	*-192.51*	
		For Class 54 Rating, Add	*131.26*	
		For Class 55 Rating, Add	*291.75*	
40 05 19 00-0698	EA	10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,379.91	374.10
		For Class 52 Rating, Deduct	*-199.44*	
		For Class 54 Rating, Add	*135.98*	
		For Class 55 Rating, Add	*302.24*	
40 05 19 00-0699	EA	10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,447.11	376.90
		For Class 52 Rating, Deduct	*-206.37*	
		For Class 54 Rating, Add	*140.70*	
		For Class 55 Rating, Add	*312.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,514.30	379.69
		For Class 52 Rating, Deduct	*-213.29*	
		For Class 54 Rating, Add	*145.43*	
		For Class 55 Rating, Add	*323.23*	
40 05 19 00-0701	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,581.50	382.48
		For Class 52 Rating, Deduct	*-220.22*	
		For Class 54 Rating, Add	*150.15*	
		For Class 55 Rating, Add	*333.73*	
40 05 19 00-0702	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,648.71	385.27
		For Class 52 Rating, Deduct	*-227.15*	
		For Class 54 Rating, Add	*154.87*	
		For Class 55 Rating, Add	*344.23*	
40 05 19 00-0703	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,715.91	388.06
		For Class 52 Rating, Deduct	*-234.07*	
		For Class 54 Rating, Add	*159.59*	
		For Class 55 Rating, Add	*354.73*	
40 05 19 00-0704	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,783.10	390.85
		For Class 52 Rating, Deduct	*-241.00*	
		For Class 54 Rating, Add	*164.32*	
		For Class 55 Rating, Add	*365.22*	
40 05 19 00-0705	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,850.30	393.64
		For Class 52 Rating, Deduct	*-247.93*	
		For Class 54 Rating, Add	*169.04*	
		For Class 55 Rating, Add	*375.72*	
40 05 19 00-0706	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,917.50	396.44
		For Class 52 Rating, Deduct	*-254.85*	
		For Class 54 Rating, Add	*173.76*	
		For Class 55 Rating, Add	*386.22*	
40 05 19 00-0707	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,984.70	399.23
		For Class 52 Rating, Deduct	*-261.78*	
		For Class 54 Rating, Add	*178.49*	
		For Class 55 Rating, Add	*396.71*	
40 05 19 00-0708	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,051.91	402.02
		For Class 52 Rating, Deduct	*-268.71*	
		For Class 54 Rating, Add	*183.21*	
		For Class 55 Rating, Add	*407.21*	
40 05 19 00-0709	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,119.10	404.81
		For Class 52 Rating, Deduct	*-275.63*	
		For Class 54 Rating, Add	*187.93*	
		For Class 55 Rating, Add	*417.71*	
40 05 19 00-0710	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,186.30	407.60
		For Class 52 Rating, Deduct	*-282.56*	
		For Class 54 Rating, Add	*192.65*	
		For Class 55 Rating, Add	*428.21*	
40 05 19 00-0711	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,253.50	410.39
		For Class 52 Rating, Deduct	*-289.49*	
		For Class 54 Rating, Add	*197.38*	
		For Class 55 Rating, Add	*438.70*	
40 05 19 00-0712	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,320.70	413.18
		For Class 52 Rating, Deduct	*-296.41*	
		For Class 54 Rating, Add	*202.10*	
		For Class 55 Rating, Add	*449.20*	
40 05 19 00-0713	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,387.91	415.99
		For Class 52 Rating, Deduct	*-303.34*	
		For Class 54 Rating, Add	*206.82*	
		For Class 55 Rating, Add	*459.70*	
40 05 19 00-0714	EA	10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,455.11	418.78
		For Class 52 Rating, Deduct	*-310.27*	
		For Class 54 Rating, Add	*211.55*	
		For Class 55 Rating, Add	*470.19*	

40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0716	EA	12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,158.92	390.85
		For Class 52 Rating, Deduct	*-62.34*	
		For Class 54 Rating, Add	*42.50*	
		For Class 55 Rating, Add	*94.47*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0717	EA	12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,242.41	393.64
		For Class 52 Rating, Deduct	*-71.06*	
		For Class 54 Rating, Add	*48.45*	
		For Class 55 Rating, Add	*107.68*	
40 05 19 00-0718	EA	12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,325.89	396.44
		For Class 52 Rating, Deduct	*-79.78*	
		For Class 54 Rating, Add	*54.39*	
		For Class 55 Rating, Add	*120.90*	
40 05 19 00-0719	EA	12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,409.38	399.23
		For Class 52 Rating, Deduct	*-88.49*	
		For Class 54 Rating, Add	*60.34*	
		For Class 55 Rating, Add	*134.11*	
40 05 19 00-0720	EA	12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,492.87	402.02
		For Class 52 Rating, Deduct	*-97.21*	
		For Class 54 Rating, Add	*66.28*	
		For Class 55 Rating, Add	*147.32*	
40 05 19 00-0721	EA	12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,576.35	404.81
		For Class 52 Rating, Deduct	*-105.93*	
		For Class 54 Rating, Add	*72.23*	
		For Class 55 Rating, Add	*160.53*	
40 05 19 00-0722	EA	12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,659.83	407.60
		For Class 52 Rating, Deduct	*-114.65*	
		For Class 54 Rating, Add	*78.17*	
		For Class 55 Rating, Add	*173.74*	
40 05 19 00-0723	EA	12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,743.32	410.39
		For Class 52 Rating, Deduct	*-123.37*	
		For Class 54 Rating, Add	*84.11*	
		For Class 55 Rating, Add	*186.96*	
40 05 19 00-0724	EA	12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,826.80	413.18
		For Class 52 Rating, Deduct	*-132.08*	
		For Class 54 Rating, Add	*90.06*	
		For Class 55 Rating, Add	*200.17*	
40 05 19 00-0725	EA	12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,910.30	415.99
		For Class 52 Rating, Deduct	*-140.80*	
		For Class 54 Rating, Add	*96.00*	
		For Class 55 Rating, Add	*213.38*	
40 05 19 00-0726	EA	12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,993.78	418.78
		For Class 52 Rating, Deduct	*-149.52*	
		For Class 54 Rating, Add	*101.95*	
		For Class 55 Rating, Add	*226.59*	
40 05 19 00-0727	EA	12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,077.26	421.57
		For Class 52 Rating, Deduct	*-158.24*	
		For Class 54 Rating, Add	*107.89*	
		For Class 55 Rating, Add	*239.80*	
40 05 19 00-0728	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,160.74	424.36
		For Class 52 Rating, Deduct	*-166.96*	
		For Class 54 Rating, Add	*113.83*	
		For Class 55 Rating, Add	*253.01*	
40 05 19 00-0729	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.23	427.15
		For Class 52 Rating, Deduct	*-175.67*	
		For Class 54 Rating, Add	*119.78*	
		For Class 55 Rating, Add	*266.23*	
40 05 19 00-0730	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,327.71	429.94
		For Class 52 Rating, Deduct	*-184.39*	
		For Class 54 Rating, Add	*125.72*	
		For Class 55 Rating, Add	*279.44*	
40 05 19 00-0731	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,411.20	432.73
		For Class 52 Rating, Deduct	*-193.11*	
		For Class 54 Rating, Add	*131.67*	
		For Class 55 Rating, Add	*292.65*	
40 05 19 00-0732	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,494.69	435.52
		For Class 52 Rating, Deduct	*-201.83*	
		For Class 54 Rating, Add	*137.61*	
		For Class 55 Rating, Add	*305.86*	
40 05 19 00-0733	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,578.16	438.32
		For Class 52 Rating, Deduct	*-210.55*	
		For Class 54 Rating, Add	*143.55*	
		For Class 55 Rating, Add	*319.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0734	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,661.65	441.11
		For Class 52 Rating, Deduct	*-219.26*	
		For Class 54 Rating, Add	*149.50*	
		For Class 55 Rating, Add	*332.28*	
40 05 19 00-0735	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,745.13	443.90
		For Class 52 Rating, Deduct	*-227.98*	
		For Class 54 Rating, Add	*155.44*	
		For Class 55 Rating, Add	*345.50*	
40 05 19 00-0736	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,828.63	446.69
		For Class 52 Rating, Deduct	*-236.70*	
		For Class 54 Rating, Add	*161.39*	
		For Class 55 Rating, Add	*358.71*	
40 05 19 00-0737	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,912.11	449.48
		For Class 52 Rating, Deduct	*-245.42*	
		For Class 54 Rating, Add	*167.33*	
		For Class 55 Rating, Add	*371.92*	
40 05 19 00-0738	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,995.59	452.27
		For Class 52 Rating, Deduct	*-254.14*	
		For Class 54 Rating, Add	*173.27*	
		For Class 55 Rating, Add	*385.13*	
40 05 19 00-0739	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,079.07	455.06
		For Class 52 Rating, Deduct	*-262.85*	
		For Class 54 Rating, Add	*179.22*	
		For Class 55 Rating, Add	*398.34*	
40 05 19 00-0740	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,162.56	457.86
		For Class 52 Rating, Deduct	*-271.57*	
		For Class 54 Rating, Add	*185.16*	
		For Class 55 Rating, Add	*411.56*	
40 05 19 00-0741	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,246.04	460.65
		For Class 52 Rating, Deduct	*-280.29*	
		For Class 54 Rating, Add	*191.11*	
		For Class 55 Rating, Add	*424.77*	
40 05 19 00-0742	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,329.54	463.44
		For Class 52 Rating, Deduct	*-289.01*	
		For Class 54 Rating, Add	*197.05*	
		For Class 55 Rating, Add	*437.98*	
40 05 19 00-0743	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,413.02	466.23
		For Class 52 Rating, Deduct	*-297.73*	
		For Class 54 Rating, Add	*203.00*	
		For Class 55 Rating, Add	*451.19*	
40 05 19 00-0744	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,496.49	469.02
		For Class 52 Rating, Deduct	*-306.44*	
		For Class 54 Rating, Add	*208.94*	
		For Class 55 Rating, Add	*464.40*	
40 05 19 00-0745	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,579.98	471.81
		For Class 52 Rating, Deduct	*-315.16*	
		For Class 54 Rating, Add	*214.88*	
		For Class 55 Rating, Add	*477.61*	
40 05 19 00-0746	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,663.46	474.60
		For Class 52 Rating, Deduct	*-323.88*	
		For Class 54 Rating, Add	*220.83*	
		For Class 55 Rating, Add	*490.82*	
40 05 19 00-0747	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,746.95	477.40
		For Class 52 Rating, Deduct	*-332.60*	
		For Class 54 Rating, Add	*226.77*	
		For Class 55 Rating, Add	*504.04*	
40 05 19 00-0748	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,830.44	480.20
		For Class 52 Rating, Deduct	*-341.32*	
		For Class 54 Rating, Add	*232.72*	
		For Class 55 Rating, Add	*517.25*	
40 05 19 00-0749	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,913.93	482.99
		For Class 52 Rating, Deduct	*-350.03*	
		For Class 54 Rating, Add	*238.66*	
		For Class 55 Rating, Add	*530.46*	
40 05 19 00-0750	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,997.40	485.78
		For Class 52 Rating, Deduct	*-358.75*	
		For Class 54 Rating, Add	*244.60*	
		For Class 55 Rating, Add	*543.67*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0751	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,080.89	488.57
		For Class 52 Rating, Deduct	*-367.47*	
		For Class 54 Rating, Add	*250.55*	
		For Class 55 Rating, Add	*556.88*	
40 05 19 00-0752	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,164.37	491.36
		For Class 52 Rating, Deduct	*-376.19*	
		For Class 54 Rating, Add	*256.49*	
		For Class 55 Rating, Add	*570.10*	
40 05 19 00-0753	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,247.87	494.15
		For Class 52 Rating, Deduct	*-384.91*	
		For Class 54 Rating, Add	*262.44*	
		For Class 55 Rating, Add	*583.31*	
40 05 19 00-0754	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,331.35	496.95
		For Class 52 Rating, Deduct	*-393.62*	
		For Class 54 Rating, Add	*268.38*	
		For Class 55 Rating, Add	*596.52*	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0756	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,557.47	469.02
		For Class 52 Rating, Deduct	*-93.15*	
		For Class 54 Rating, Add	*63.51*	
		For Class 55 Rating, Add	*141.17*	
40 05 19 00-0757	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,658.33	471.81
		For Class 52 Rating, Deduct	*-103.78*	
		For Class 54 Rating, Add	*70.76*	
		For Class 55 Rating, Add	*157.27*	
40 05 19 00-0758	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,759.18	474.60
		For Class 52 Rating, Deduct	*-114.41*	
		For Class 54 Rating, Add	*78.01*	
		For Class 55 Rating, Add	*173.38*	
40 05 19 00-0759	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,860.04	477.40
		For Class 52 Rating, Deduct	*-125.04*	
		For Class 54 Rating, Add	*85.25*	
		For Class 55 Rating, Add	*189.49*	
40 05 19 00-0760	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,960.90	480.20
		For Class 52 Rating, Deduct	*-135.67*	
		For Class 54 Rating, Add	*92.50*	
		For Class 55 Rating, Add	*205.60*	
40 05 19 00-0761	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,061.76	482.99
		For Class 52 Rating, Deduct	*-146.30*	
		For Class 54 Rating, Add	*99.75*	
		For Class 55 Rating, Add	*221.70*	
40 05 19 00-0762	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,162.60	485.78
		For Class 52 Rating, Deduct	*-156.92*	
		For Class 54 Rating, Add	*106.99*	
		For Class 55 Rating, Add	*237.81*	
40 05 19 00-0763	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,263.46	488.57
		For Class 52 Rating, Deduct	*-167.55*	
		For Class 54 Rating, Add	*114.24*	
		For Class 55 Rating, Add	*253.92*	
40 05 19 00-0764	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,364.31	491.36
		For Class 52 Rating, Deduct	*-178.18*	
		For Class 54 Rating, Add	*121.49*	
		For Class 55 Rating, Add	*270.03*	
40 05 19 00-0765	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,465.18	494.15
		For Class 52 Rating, Deduct	*-188.81*	
		For Class 54 Rating, Add	*128.73*	
		For Class 55 Rating, Add	*286.13*	
40 05 19 00-0766	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,566.04	496.95
		For Class 52 Rating, Deduct	*-199.44*	
		For Class 54 Rating, Add	*135.98*	
		For Class 55 Rating, Add	*302.24*	
40 05 19 00-0767	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,666.88	499.74
		For Class 52 Rating, Deduct	*-210.07*	
		For Class 54 Rating, Add	*143.23*	
		For Class 55 Rating, Add	*318.35*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0768	EA	14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,767.74	502.53
		For Class 52 Rating, Deduct	*-220.70*	
		For Class 54 Rating, Add	*150.48*	
		For Class 55 Rating, Add	*334.46*	
40 05 19 00-0769	EA	14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,868.59	505.32
		For Class 52 Rating, Deduct	*-231.33*	
		For Class 54 Rating, Add	*157.72*	
		For Class 55 Rating, Add	*350.56*	
40 05 19 00-0770	EA	14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,969.45	508.11
		For Class 52 Rating, Deduct	*-241.95*	
		For Class 54 Rating, Add	*164.97*	
		For Class 55 Rating, Add	*366.67*	
40 05 19 00-0771	EA	14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,070.31	510.90
		For Class 52 Rating, Deduct	*-252.58*	
		For Class 54 Rating, Add	*172.22*	
		For Class 55 Rating, Add	*382.78*	
40 05 19 00-0772	EA	14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,171.17	513.69
		For Class 52 Rating, Deduct	*-263.21*	
		For Class 54 Rating, Add	*179.46*	
		For Class 55 Rating, Add	*398.89*	
40 05 19 00-0773	EA	14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,272.01	516.48
		For Class 52 Rating, Deduct	*-273.84*	
		For Class 54 Rating, Add	*186.71*	
		For Class 55 Rating, Add	*414.99*	
40 05 19 00-0774	EA	14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,372.87	519.28
		For Class 52 Rating, Deduct	*-284.47*	
		For Class 54 Rating, Add	*193.96*	
		For Class 55 Rating, Add	*431.10*	
40 05 19 00-0775	EA	14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,473.73	522.07
		For Class 52 Rating, Deduct	*-295.10*	
		For Class 54 Rating, Add	*201.20*	
		For Class 55 Rating, Add	*447.21*	
40 05 19 00-0776	EA	14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,574.59	524.86
		For Class 52 Rating, Deduct	*-305.73*	
		For Class 54 Rating, Add	*208.45*	
		For Class 55 Rating, Add	*463.32*	
40 05 19 00-0777	EA	14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,675.45	527.65
		For Class 52 Rating, Deduct	*-316.36*	
		For Class 54 Rating, Add	*215.70*	
		For Class 55 Rating, Add	*479.42*	
40 05 19 00-0778	EA	14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,776.30	530.44
		For Class 52 Rating, Deduct	*-326.98*	
		For Class 54 Rating, Add	*222.94*	
		For Class 55 Rating, Add	*495.53*	
40 05 19 00-0779	EA	14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,877.15	533.23
		For Class 52 Rating, Deduct	*-337.61*	
		For Class 54 Rating, Add	*230.19*	
		For Class 55 Rating, Add	*511.64*	
40 05 19 00-0780	EA	14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,978.00	536.02
		For Class 52 Rating, Deduct	*-348.24*	
		For Class 54 Rating, Add	*237.44*	
		For Class 55 Rating, Add	*527.75*	
40 05 19 00-0781	EA	14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,078.86	538.82
		For Class 52 Rating, Deduct	*-358.87*	
		For Class 54 Rating, Add	*244.69*	
		For Class 55 Rating, Add	*543.85*	
40 05 19 00-0782	EA	14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,179.72	541.61
		For Class 52 Rating, Deduct	*-369.50*	
		For Class 54 Rating, Add	*251.93*	
		For Class 55 Rating, Add	*559.96*	
40 05 19 00-0783	EA	14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,280.58	544.41
		For Class 52 Rating, Deduct	*-380.13*	
		For Class 54 Rating, Add	*259.18*	
		For Class 55 Rating, Add	*576.07*	
40 05 19 00-0784	EA	14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,381.42	547.20
		For Class 52 Rating, Deduct	*-390.76*	
		For Class 54 Rating, Add	*266.43*	
		For Class 55 Rating, Add	*592.18*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0785	EA	14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,482.28	549.99
		For Class 52 Rating, Deduct	*-401.39*	
		For Class 54 Rating, Add	*273.67*	
		For Class 55 Rating, Add	*608.28*	
40 05 19 00-0786	EA	14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,583.14	552.78
		For Class 52 Rating, Deduct	*-412.02*	
		For Class 54 Rating, Add	*280.92*	
		For Class 55 Rating, Add	*624.39*	
40 05 19 00-0787	EA	14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,683.99	555.57
		For Class 52 Rating, Deduct	*-422.64*	
		For Class 54 Rating, Add	*288.17*	
		For Class 55 Rating, Add	*640.50*	
40 05 19 00-0788	EA	14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,784.86	558.37
		For Class 52 Rating, Deduct	*-433.27*	
		For Class 54 Rating, Add	*295.41*	
		For Class 55 Rating, Add	*656.61*	
40 05 19 00-0789	EA	14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,885.71	561.16
		For Class 52 Rating, Deduct	*-443.90*	
		For Class 54 Rating, Add	*302.66*	
		For Class 55 Rating, Add	*672.71*	
40 05 19 00-0790	EA	14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,986.56	563.95
		For Class 52 Rating, Deduct	*-454.53*	
		For Class 54 Rating, Add	*309.91*	
		For Class 55 Rating, Add	*688.82*	
40 05 19 00-0791	EA	14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,087.41	566.74
		For Class 52 Rating, Deduct	*-465.16*	
		For Class 54 Rating, Add	*317.15*	
		For Class 55 Rating, Add	*704.93*	
40 05 19 00-0792	EA	14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,188.27	569.53
		For Class 52 Rating, Deduct	*-475.79*	
		For Class 54 Rating, Add	*324.40*	
		For Class 55 Rating, Add	*721.04*	
40 05 19 00-0793	EA	14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,289.13	572.32
		For Class 52 Rating, Deduct	*-486.42*	
		For Class 54 Rating, Add	*331.65*	
		For Class 55 Rating, Add	*737.14*	

40 05 19 00-0794 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0795	EA	16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,814.24	536.02
		For Class 52 Rating, Deduct	*-110.23*	
		For Class 54 Rating, Add	*75.16*	
		For Class 55 Rating, Add	*167.05*	
40 05 19 00-0796	EA	16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,931.38	538.82
		For Class 52 Rating, Deduct	*-122.65*	
		For Class 54 Rating, Add	*83.62*	
		For Class 55 Rating, Add	*185.87*	
40 05 19 00-0797	EA	16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,048.53	541.61
		For Class 52 Rating, Deduct	*-135.07*	
		For Class 54 Rating, Add	*92.09*	
		For Class 55 Rating, Add	*204.69*	
40 05 19 00-0798	EA	16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,165.67	544.41
		For Class 52 Rating, Deduct	*-147.49*	
		For Class 54 Rating, Add	*100.56*	
		For Class 55 Rating, Add	*223.51*	
40 05 19 00-0799	EA	16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,282.81	547.20
		For Class 52 Rating, Deduct	*-159.91*	
		For Class 54 Rating, Add	*109.03*	
		For Class 55 Rating, Add	*242.34*	
40 05 19 00-0800	EA	16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,399.95	549.99
		For Class 52 Rating, Deduct	*-172.33*	
		For Class 54 Rating, Add	*117.50*	
		For Class 55 Rating, Add	*261.16*	
40 05 19 00-0801	EA	16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,517.09	552.78
		For Class 52 Rating, Deduct	*-184.75*	
		For Class 54 Rating, Add	*125.97*	
		For Class 55 Rating, Add	*279.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0802	EA	16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,634.23	555.57
		For Class 52 Rating, Deduct	*-197.17*	
		For Class 54 Rating, Add	*134.43*	
		For Class 55 Rating, Add	*298.80*	
40 05 19 00-0803	EA	16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,751.38	558.37
		For Class 52 Rating, Deduct	*-209.59*	
		For Class 54 Rating, Add	*142.90*	
		For Class 55 Rating, Add	*317.63*	
40 05 19 00-0804	EA	16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,857.66	561.16
		For Class 52 Rating, Deduct	*-220.82*	
		For Class 54 Rating, Add	*150.56*	
		For Class 55 Rating, Add	*334.64*	
40 05 19 00-0805	EA	16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,985.65	563.95
		For Class 52 Rating, Deduct	*-234.43*	
		For Class 54 Rating, Add	*159.84*	
		For Class 55 Rating, Add	*355.27*	
40 05 19 00-0806	EA	16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,102.79	566.74
		For Class 52 Rating, Deduct	*-246.85*	
		For Class 54 Rating, Add	*168.31*	
		For Class 55 Rating, Add	*374.09*	
40 05 19 00-0807	EA	16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,219.93	569.53
		For Class 52 Rating, Deduct	*-259.27*	
		For Class 54 Rating, Add	*176.78*	
		For Class 55 Rating, Add	*392.91*	
40 05 19 00-0808	EA	16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,337.08	572.32
		For Class 52 Rating, Deduct	*-271.69*	
		For Class 54 Rating, Add	*185.24*	
		For Class 55 Rating, Add	*411.74*	
40 05 19 00-0809	EA	16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,454.22	575.11
		For Class 52 Rating, Deduct	*-284.11*	
		For Class 54 Rating, Add	*193.71*	
		For Class 55 Rating, Add	*430.56*	
40 05 19 00-0810	EA	16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,571.36	577.91
		For Class 52 Rating, Deduct	*-296.53*	
		For Class 54 Rating, Add	*202.18*	
		For Class 55 Rating, Add	*449.38*	
40 05 19 00-0811	EA	16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,688.49	580.70
		For Class 52 Rating, Deduct	*-308.95*	
		For Class 54 Rating, Add	*210.65*	
		For Class 55 Rating, Add	*468.20*	
40 05 19 00-0812	EA	16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,805.63	583.49
		For Class 52 Rating, Deduct	*-321.37*	
		For Class 54 Rating, Add	*219.12*	
		For Class 55 Rating, Add	*487.02*	
40 05 19 00-0813	EA	16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,922.78	586.28
		For Class 52 Rating, Deduct	*-333.79*	
		For Class 54 Rating, Add	*227.59*	
		For Class 55 Rating, Add	*505.85*	
40 05 19 00-0814	EA	16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,039.93	589.07
		For Class 52 Rating, Deduct	*-346.21*	
		For Class 54 Rating, Add	*236.05*	
		For Class 55 Rating, Add	*524.67*	
40 05 19 00-0815	EA	16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,157.07	591.86
		For Class 52 Rating, Deduct	*-358.63*	
		For Class 54 Rating, Add	*244.52*	
		For Class 55 Rating, Add	*543.49*	
40 05 19 00-0816	EA	16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,274.20	594.65
		For Class 52 Rating, Deduct	*-371.05*	
		For Class 54 Rating, Add	*252.99*	
		For Class 55 Rating, Add	*562.31*	
40 05 19 00-0817	EA	16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,391.34	597.44
		For Class 52 Rating, Deduct	*-383.47*	
		For Class 54 Rating, Add	*261.46*	
		For Class 55 Rating, Add	*581.14*	
40 05 19 00-0818	EA	16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,508.48	600.24
		For Class 52 Rating, Deduct	*-395.89*	
		For Class 54 Rating, Add	*269.93*	
		For Class 55 Rating, Add	*599.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0819	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,625.63	603.03
		For Class 52 Rating, Deduct	*-408.31*	
		For Class 54 Rating, Add	*278.40*	
		For Class 55 Rating, Add	*618.78*	
40 05 19 00-0820	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,742.77	605.82
		For Class 52 Rating, Deduct	*-420.73*	
		For Class 54 Rating, Add	*286.86*	
		For Class 55 Rating, Add	*637.60*	
40 05 19 00-0821	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,859.91	608.62
		For Class 52 Rating, Deduct	*-433.15*	
		For Class 54 Rating, Add	*295.33*	
		For Class 55 Rating, Add	*656.42*	
40 05 19 00-0822	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,977.04	611.41
		For Class 52 Rating, Deduct	*-445.57*	
		For Class 54 Rating, Add	*303.80*	
		For Class 55 Rating, Add	*675.25*	
40 05 19 00-0823	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,094.18	614.20
		For Class 52 Rating, Deduct	*-457.99*	
		For Class 54 Rating, Add	*312.27*	
		For Class 55 Rating, Add	*694.07*	
40 05 19 00-0824	EA	16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,211.32	616.99
		For Class 52 Rating, Deduct	*-470.41*	
		For Class 54 Rating, Add	*320.74*	
		For Class 55 Rating, Add	*712.89*	
40 05 19 00-0825	EA	16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,328.47	619.79
		For Class 52 Rating, Deduct	*-482.83*	
		For Class 54 Rating, Add	*329.21*	
		For Class 55 Rating, Add	*731.71*	
40 05 19 00-0826	EA	16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,445.62	622.58
		For Class 52 Rating, Deduct	*-495.26*	
		For Class 54 Rating, Add	*337.67*	
		For Class 55 Rating, Add	*750.54*	
40 05 19 00-0827	EA	16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,562.76	625.37
		For Class 52 Rating, Deduct	*-507.68*	
		For Class 54 Rating, Add	*346.14*	
		For Class 55 Rating, Add	*769.36*	
40 05 19 00-0828	EA	16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,679.89	628.16
		For Class 52 Rating, Deduct	*-520.10*	
		For Class 54 Rating, Add	*354.61*	
		For Class 55 Rating, Add	*788.18*	
40 05 19 00-0829	EA	16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,797.03	630.95
		For Class 52 Rating, Deduct	*-532.52*	
		For Class 54 Rating, Add	*363.08*	
		For Class 55 Rating, Add	*807.00*	
40 05 19 00-0830	EA	16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,914.17	633.74
		For Class 52 Rating, Deduct	*-544.94*	
		For Class 54 Rating, Add	*371.55*	
		For Class 55 Rating, Add	*825.83*	
40 05 19 00-0831	EA	16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,031.32	636.53
		For Class 52 Rating, Deduct	*-557.36*	
		For Class 54 Rating, Add	*380.02*	
		For Class 55 Rating, Add	*844.65*	
40 05 19 00-0832	EA	16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,148.46	639.33
		For Class 52 Rating, Deduct	*-569.78*	
		For Class 54 Rating, Add	*388.48*	
		For Class 55 Rating, Add	*863.47*	

40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0834	EA	18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,104.19	604.15
		For Class 52 Rating, Deduct	*-130.77*	
		For Class 54 Rating, Add	*89.16*	
		For Class 55 Rating, Add	*198.18*	
40 05 19 00-0835	EA	18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,238.71	606.94
		For Class 52 Rating, Deduct	*-145.10*	
		For Class 54 Rating, Add	*98.93*	
		For Class 55 Rating, Add	*219.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0836	EA	18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,373.22	609.74
		For Class 52 Rating, Deduct	*-159.43*	
		For Class 54 Rating, Add	*108.70*	
		For Class 55 Rating, Add	*241.61*	
40 05 19 00-0837	EA	18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,507.73	612.53
		For Class 52 Rating, Deduct	*-173.76*	
		For Class 54 Rating, Add	*118.47*	
		For Class 55 Rating, Add	*263.33*	
40 05 19 00-0838	EA	18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,642.25	615.32
		For Class 52 Rating, Deduct	*-188.09*	
		For Class 54 Rating, Add	*128.25*	
		For Class 55 Rating, Add	*285.05*	
40 05 19 00-0839	EA	18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,776.75	618.11
		For Class 52 Rating, Deduct	*-202.43*	
		For Class 54 Rating, Add	*138.02*	
		For Class 55 Rating, Add	*306.77*	
40 05 19 00-0840	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,911.26	620.90
		For Class 52 Rating, Deduct	*-216.76*	
		For Class 54 Rating, Add	*147.79*	
		For Class 55 Rating, Add	*328.48*	
40 05 19 00-0841	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,045.78	623.69
		For Class 52 Rating, Deduct	*-231.09*	
		For Class 54 Rating, Add	*157.56*	
		For Class 55 Rating, Add	*350.20*	
40 05 19 00-0842	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,180.29	626.48
		For Class 52 Rating, Deduct	*-245.42*	
		For Class 54 Rating, Add	*167.33*	
		For Class 55 Rating, Add	*371.92*	
40 05 19 00-0843	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,314.80	629.27
		For Class 52 Rating, Deduct	*-259.75*	
		For Class 54 Rating, Add	*177.10*	
		For Class 55 Rating, Add	*393.64*	
40 05 19 00-0844	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,449.32	632.07
		For Class 52 Rating, Deduct	*-274.08*	
		For Class 54 Rating, Add	*186.87*	
		For Class 55 Rating, Add	*415.36*	
40 05 19 00-0845	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,583.82	634.87
		For Class 52 Rating, Deduct	*-288.41*	
		For Class 54 Rating, Add	*196.64*	
		For Class 55 Rating, Add	*437.07*	
40 05 19 00-0846	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,718.34	637.66
		For Class 52 Rating, Deduct	*-302.74*	
		For Class 54 Rating, Add	*206.42*	
		For Class 55 Rating, Add	*458.79*	
40 05 19 00-0847	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,852.85	640.45
		For Class 52 Rating, Deduct	*-317.07*	
		For Class 54 Rating, Add	*216.19*	
		For Class 55 Rating, Add	*480.51*	
40 05 19 00-0848	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,987.36	643.24
		For Class 52 Rating, Deduct	*-331.40*	
		For Class 54 Rating, Add	*225.96*	
		For Class 55 Rating, Add	*502.23*	
40 05 19 00-0849	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,121.87	646.03
		For Class 52 Rating, Deduct	*-345.73*	
		For Class 54 Rating, Add	*235.73*	
		For Class 55 Rating, Add	*523.94*	
40 05 19 00-0850	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,256.38	648.82
		For Class 52 Rating, Deduct	*-360.07*	
		For Class 54 Rating, Add	*245.50*	
		For Class 55 Rating, Add	*545.66*	
40 05 19 00-0851	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,390.89	651.62
		For Class 52 Rating, Deduct	*-374.40*	
		For Class 54 Rating, Add	*255.27*	
		For Class 55 Rating, Add	*567.38*	
40 05 19 00-0852	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,525.41	654.41
		For Class 52 Rating, Deduct	*-388.73*	
		For Class 54 Rating, Add	*265.04*	
		For Class 55 Rating, Add	*589.10*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0853	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,659.92	657.20
		For Class 52 Rating, Deduct	*-403.06*	
		For Class 54 Rating, Add	*274.81*	
		For Class 55 Rating, Add	*610.82*	
40 05 19 00-0854	EA	18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,794.43	659.99
		For Class 52 Rating, Deduct	*-417.39*	
		For Class 54 Rating, Add	*284.58*	
		For Class 55 Rating, Add	*632.53*	
40 05 19 00-0855	EA	18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,928.94	662.78
		For Class 52 Rating, Deduct	*-431.72*	
		For Class 54 Rating, Add	*294.35*	
		For Class 55 Rating, Add	*654.25*	
40 05 19 00-0856	EA	18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,063.44	665.57
		For Class 52 Rating, Deduct	*-446.05*	
		For Class 54 Rating, Add	*304.13*	
		For Class 55 Rating, Add	*675.97*	
40 05 19 00-0857	EA	18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,197.96	668.36
		For Class 52 Rating, Deduct	*-460.38*	
		For Class 54 Rating, Add	*313.90*	
		For Class 55 Rating, Add	*697.69*	
40 05 19 00-0858	EA	18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,332.48	671.16
		For Class 52 Rating, Deduct	*-474.71*	
		For Class 54 Rating, Add	*323.67*	
		For Class 55 Rating, Add	*719.41*	
40 05 19 00-0859	EA	18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,466.99	673.95
		For Class 52 Rating, Deduct	*-489.04*	
		For Class 54 Rating, Add	*333.44*	
		For Class 55 Rating, Add	*741.12*	
40 05 19 00-0860	EA	18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,601.50	676.74
		For Class 52 Rating, Deduct	*-503.38*	
		For Class 54 Rating, Add	*343.21*	
		For Class 55 Rating, Add	*762.84*	
40 05 19 00-0861	EA	18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,736.01	679.53
		For Class 52 Rating, Deduct	*-517.71*	
		For Class 54 Rating, Add	*352.98*	
		For Class 55 Rating, Add	*784.56*	
40 05 19 00-0862	EA	18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,870.51	682.32
		For Class 52 Rating, Deduct	*-532.04*	
		For Class 54 Rating, Add	*362.75*	
		For Class 55 Rating, Add	*806.28*	
40 05 19 00-0863	EA	18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,005.04	685.11
		For Class 52 Rating, Deduct	*-546.37*	
		For Class 54 Rating, Add	*372.52*	
		For Class 55 Rating, Add	*828.00*	
40 05 19 00-0864	EA	18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,139.55	687.90
		For Class 52 Rating, Deduct	*-560.70*	
		For Class 54 Rating, Add	*382.30*	
		For Class 55 Rating, Add	*849.71*	
40 05 19 00-0865	EA	18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,274.06	690.70
		For Class 52 Rating, Deduct	*-575.03*	
		For Class 54 Rating, Add	*392.07*	
		For Class 55 Rating, Add	*871.43*	
40 05 19 00-0866	EA	18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,408.57	693.49
		For Class 52 Rating, Deduct	*-589.36*	
		For Class 54 Rating, Add	*401.84*	
		For Class 55 Rating, Add	*893.15*	
40 05 19 00-0867	EA	18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,543.07	696.28
		For Class 52 Rating, Deduct	*-603.69*	
		For Class 54 Rating, Add	*411.61*	
		For Class 55 Rating, Add	*914.87*	
40 05 19 00-0868	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,677.58	699.08
		For Class 52 Rating, Deduct	*-618.02*	
		For Class 54 Rating, Add	*421.38*	
		For Class 55 Rating, Add	*936.59*	
40 05 19 00-0869	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,812.11	701.87
		For Class 52 Rating, Deduct	*-632.35*	
		For Class 54 Rating, Add	*431.15*	
		For Class 55 Rating, Add	*958.30*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0870	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,946.62	704.66
		For Class 52 Rating, Deduct	*-646.69*	
		For Class 54 Rating, Add	*440.92*	
		For Class 55 Rating, Add	*980.02*	
40 05 19 00-0871	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,081.13	707.45
		For Class 52 Rating, Deduct	*-661.02*	
		For Class 54 Rating, Add	*450.69*	
		For Class 55 Rating, Add	*1,001.74*	

40 05 19 00-0872 20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0873	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,433.39	689.58
		For Class 52 Rating, Deduct	*-152.74*	
		For Class 54 Rating, Add	*104.14*	
		For Class 55 Rating, Add	*231.48*	
40 05 19 00-0874	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,587.45	692.37
		For Class 52 Rating, Deduct	*-169.23*	
		For Class 54 Rating, Add	*115.38*	
		For Class 55 Rating, Add	*256.45*	
40 05 19 00-0875	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,741.50	695.16
		For Class 52 Rating, Deduct	*-185.71*	
		For Class 54 Rating, Add	*126.62*	
		For Class 55 Rating, Add	*281.43*	
40 05 19 00-0876	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,895.57	697.95
		For Class 52 Rating, Deduct	*-202.19*	
		For Class 54 Rating, Add	*137.85*	
		For Class 55 Rating, Add	*306.40*	
40 05 19 00-0877	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,049.62	700.75
		For Class 52 Rating, Deduct	*-218.67*	
		For Class 54 Rating, Add	*149.09*	
		For Class 55 Rating, Add	*331.38*	
40 05 19 00-0878	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,203.67	703.54
		For Class 52 Rating, Deduct	*-235.15*	
		For Class 54 Rating, Add	*160.33*	
		For Class 55 Rating, Add	*356.35*	
40 05 19 00-0879	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,357.72	706.33
		For Class 52 Rating, Deduct	*-251.63*	
		For Class 54 Rating, Add	*171.56*	
		For Class 55 Rating, Add	*381.33*	
40 05 19 00-0880	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,511.77	709.12
		For Class 52 Rating, Deduct	*-268.11*	
		For Class 54 Rating, Add	*182.80*	
		For Class 55 Rating, Add	*406.31*	
40 05 19 00-0881	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,665.83	711.91
		For Class 52 Rating, Deduct	*-284.59*	
		For Class 54 Rating, Add	*194.04*	
		For Class 55 Rating, Add	*431.28*	
40 05 19 00-0882	EA	20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,819.89	714.70
		For Class 52 Rating, Deduct	*-301.07*	
		For Class 54 Rating, Add	*205.28*	
		For Class 55 Rating, Add	*456.26*	
40 05 19 00-0883	EA	20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,973.94	717.49
		For Class 52 Rating, Deduct	*-317.55*	
		For Class 54 Rating, Add	*216.51*	
		For Class 55 Rating, Add	*481.23*	
40 05 19 00-0884	EA	20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,128.00	720.29
		For Class 52 Rating, Deduct	*-334.03*	
		For Class 54 Rating, Add	*227.75*	
		For Class 55 Rating, Add	*506.21*	
40 05 19 00-0885	EA	20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,282.04	723.08
		For Class 52 Rating, Deduct	*-350.51*	
		For Class 54 Rating, Add	*238.99*	
		For Class 55 Rating, Add	*531.18*	
40 05 19 00-0886	EA	20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,436.09	725.87
		For Class 52 Rating, Deduct	*-366.99*	
		For Class 54 Rating, Add	*250.22*	
		For Class 55 Rating, Add	*556.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0887	EA	20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,590.16	728.66
		For Class 52 Rating, Deduct	*-383.47*	
		For Class 54 Rating, Add	*261.46*	
		For Class 55 Rating, Add	*581.14*	
40 05 19 00-0888	EA	20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,744.21	731.45
		For Class 52 Rating, Deduct	*-399.95*	
		For Class 54 Rating, Add	*272.70*	
		For Class 55 Rating, Add	*606.11*	
40 05 19 00-0889	EA	20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,898.27	734.25
		For Class 52 Rating, Deduct	*-416.43*	
		For Class 54 Rating, Add	*283.93*	
		For Class 55 Rating, Add	*631.09*	
40 05 19 00-0890	EA	20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,052.31	737.04
		For Class 52 Rating, Deduct	*-432.91*	
		For Class 54 Rating, Add	*295.17*	
		For Class 55 Rating, Add	*656.06*	
40 05 19 00-0891	EA	20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,206.36	739.83
		For Class 52 Rating, Deduct	*-449.40*	
		For Class 54 Rating, Add	*306.41*	
		For Class 55 Rating, Add	*681.04*	
40 05 19 00-0892	EA	20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,360.42	742.63
		For Class 52 Rating, Deduct	*-465.88*	
		For Class 54 Rating, Add	*317.64*	
		For Class 55 Rating, Add	*706.01*	
40 05 19 00-0893	EA	20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,514.48	745.42
		For Class 52 Rating, Deduct	*-482.36*	
		For Class 54 Rating, Add	*328.88*	
		For Class 55 Rating, Add	*730.99*	
40 05 19 00-0894	EA	20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,668.54	748.21
		For Class 52 Rating, Deduct	*-498.84*	
		For Class 54 Rating, Add	*340.12*	
		For Class 55 Rating, Add	*755.97*	
40 05 19 00-0895	EA	20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,822.59	751.00
		For Class 52 Rating, Deduct	*-515.32*	
		For Class 54 Rating, Add	*351.35*	
		For Class 55 Rating, Add	*780.94*	
40 05 19 00-0896	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,976.63	753.79
		For Class 52 Rating, Deduct	*-531.80*	
		For Class 54 Rating, Add	*362.59*	
		For Class 55 Rating, Add	*805.92*	
40 05 19 00-0897	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,130.69	756.58
		For Class 52 Rating, Deduct	*-548.28*	
		For Class 54 Rating, Add	*373.83*	
		For Class 55 Rating, Add	*830.89*	
40 05 19 00-0898	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,284.74	759.37
		For Class 52 Rating, Deduct	*-564.76*	
		For Class 54 Rating, Add	*385.06*	
		For Class 55 Rating, Add	*855.87*	
40 05 19 00-0899	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,438.80	762.17
		For Class 52 Rating, Deduct	*-581.24*	
		For Class 54 Rating, Add	*396.30*	
		For Class 55 Rating, Add	*880.84*	
40 05 19 00-0900	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,592.86	764.96
		For Class 52 Rating, Deduct	*-597.72*	
		For Class 54 Rating, Add	*407.54*	
		For Class 55 Rating, Add	*905.82*	
40 05 19 00-0901	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,746.91	767.75
		For Class 52 Rating, Deduct	*-614.20*	
		For Class 54 Rating, Add	*418.77*	
		For Class 55 Rating, Add	*930.79*	
40 05 19 00-0902	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,900.96	770.54
		For Class 52 Rating, Deduct	*-630.68*	
		For Class 54 Rating, Add	*430.01*	
		For Class 55 Rating, Add	*955.77*	
40 05 19 00-0903	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,055.01	773.33
		For Class 52 Rating, Deduct	*-647.16*	
		For Class 54 Rating, Add	*441.25*	
		For Class 55 Rating, Add	*980.75*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0904	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,209.07	776.12
		For Class 52 Rating, Deduct	*-663.64*	
		For Class 54 Rating, Add	*452.48*	
		For Class 55 Rating, Add	*1,005.72*	
40 05 19 00-0905	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,363.13	778.91
		For Class 52 Rating, Deduct	*-680.12*	
		For Class 54 Rating, Add	*463.72*	
		For Class 55 Rating, Add	*1,030.70*	
40 05 19 00-0906	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,517.18	781.71
		For Class 52 Rating, Deduct	*-696.60*	
		For Class 54 Rating, Add	*474.96*	
		For Class 55 Rating, Add	*1,055.67*	
40 05 19 00-0907	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,671.23	784.50
		For Class 52 Rating, Deduct	*-713.09*	
		For Class 54 Rating, Add	*486.20*	
		For Class 55 Rating, Add	*1,080.65*	
40 05 19 00-0908	EA	20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,825.28	787.29
		For Class 52 Rating, Deduct	*-729.57*	
		For Class 54 Rating, Add	*497.43*	
		For Class 55 Rating, Add	*1,105.62*	
40 05 19 00-0909	EA	20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,979.33	790.08
		For Class 52 Rating, Deduct	*-746.05*	
		For Class 54 Rating, Add	*508.67*	
		For Class 55 Rating, Add	*1,130.60*	
40 05 19 00-0910	EA	20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,133.40	792.87
		For Class 52 Rating, Deduct	*-762.53*	
		For Class 54 Rating, Add	*519.91*	
		For Class 55 Rating, Add	*1,155.58*	

40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0912	EA	24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,989.63	815.21
		For Class 52 Rating, Deduct	*-192.99*	
		For Class 54 Rating, Add	*131.58*	
		For Class 55 Rating, Add	*292.47*	
40 05 19 00-0913	EA	24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,179.50	818.00
		For Class 52 Rating, Deduct	*-213.41*	
		For Class 54 Rating, Add	*145.51*	
		For Class 55 Rating, Add	*323.42*	
40 05 19 00-0914	EA	24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,369.38	820.79
		For Class 52 Rating, Deduct	*-233.83*	
		For Class 54 Rating, Add	*159.43*	
		For Class 55 Rating, Add	*354.36*	
40 05 19 00-0915	EA	24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,559.27	823.59
		For Class 52 Rating, Deduct	*-254.26*	
		For Class 54 Rating, Add	*173.36*	
		For Class 55 Rating, Add	*385.31*	
40 05 19 00-0916	EA	24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,749.15	826.38
		For Class 52 Rating, Deduct	*-274.68*	
		For Class 54 Rating, Add	*187.28*	
		For Class 55 Rating, Add	*416.26*	
40 05 19 00-0917	EA	24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,939.04	829.17
		For Class 52 Rating, Deduct	*-295.10*	
		For Class 54 Rating, Add	*201.20*	
		For Class 55 Rating, Add	*447.21*	
40 05 19 00-0918	EA	24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,128.92	831.96
		For Class 52 Rating, Deduct	*-315.52*	
		For Class 54 Rating, Add	*215.13*	
		For Class 55 Rating, Add	*478.16*	
40 05 19 00-0919	EA	24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,318.79	834.75
		For Class 52 Rating, Deduct	*-335.94*	
		For Class 54 Rating, Add	*229.05*	
		For Class 55 Rating, Add	*509.11*	
40 05 19 00-0920	EA	24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,508.67	837.54
		For Class 52 Rating, Deduct	*-356.36*	
		For Class 54 Rating, Add	*242.98*	
		For Class 55 Rating, Add	*540.05*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0921	EA	24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,698.56	840.33
		For Class 52 Rating, Deduct	*-376.79*	
		For Class 54 Rating, Add	*256.90*	
		For Class 55 Rating, Add	*571.00*	
40 05 19 00-0922	EA	24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,888.44	843.13
		For Class 52 Rating, Deduct	*-397.21*	
		For Class 54 Rating, Add	*270.82*	
		For Class 55 Rating, Add	*601.95*	
40 05 19 00-0923	EA	24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,078.32	845.92
		For Class 52 Rating, Deduct	*-417.63*	
		For Class 54 Rating, Add	*284.75*	
		For Class 55 Rating, Add	*632.90*	
40 05 19 00-0924	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,268.19	848.71
		For Class 52 Rating, Deduct	*-438.05*	
		For Class 54 Rating, Add	*298.67*	
		For Class 55 Rating, Add	*663.84*	
40 05 19 00-0925	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,458.08	851.50
		For Class 52 Rating, Deduct	*-458.47*	
		For Class 54 Rating, Add	*312.59*	
		For Class 55 Rating, Add	*694.79*	
40 05 19 00-0926	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,647.97	854.29
		For Class 52 Rating, Deduct	*-478.89*	
		For Class 54 Rating, Add	*326.52*	
		For Class 55 Rating, Add	*725.74*	
40 05 19 00-0927	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,837.85	857.08
		For Class 52 Rating, Deduct	*-499.32*	
		For Class 54 Rating, Add	*340.44*	
		For Class 55 Rating, Add	*756.69*	
40 05 19 00-0928	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,027.73	859.87
		For Class 52 Rating, Deduct	*-519.74*	
		For Class 54 Rating, Add	*354.37*	
		For Class 55 Rating, Add	*787.64*	
40 05 19 00-0929	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,217.61	862.68
		For Class 52 Rating, Deduct	*-540.16*	
		For Class 54 Rating, Add	*368.29*	
		For Class 55 Rating, Add	*818.59*	
40 05 19 00-0930	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,407.48	865.47
		For Class 52 Rating, Deduct	*-560.58*	
		For Class 54 Rating, Add	*382.21*	
		For Class 55 Rating, Add	*849.53*	
40 05 19 00-0931	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,597.36	868.26
		For Class 52 Rating, Deduct	*-581.00*	
		For Class 54 Rating, Add	*396.14*	
		For Class 55 Rating, Add	*880.48*	
40 05 19 00-0932	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,787.25	871.05
		For Class 52 Rating, Deduct	*-601.42*	
		For Class 54 Rating, Add	*410.06*	
		For Class 55 Rating, Add	*911.43*	
40 05 19 00-0933	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,977.14	873.84
		For Class 52 Rating, Deduct	*-621.85*	
		For Class 54 Rating, Add	*423.99*	
		For Class 55 Rating, Add	*942.38*	
40 05 19 00-0934	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,167.02	876.63
		For Class 52 Rating, Deduct	*-642.27*	
		For Class 54 Rating, Add	*437.91*	
		For Class 55 Rating, Add	*973.33*	
40 05 19 00-0935	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,356.90	879.42
		For Class 52 Rating, Deduct	*-662.69*	
		For Class 54 Rating, Add	*451.83*	
		For Class 55 Rating, Add	*1,004.27*	
40 05 19 00-0936	EA	24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,546.77	882.22
		For Class 52 Rating, Deduct	*-683.11*	
		For Class 54 Rating, Add	*465.76*	
		For Class 55 Rating, Add	*1,035.22*	
40 05 19 00-0937	EA	24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,736.66	885.01
		For Class 52 Rating, Deduct	*-703.53*	
		For Class 54 Rating, Add	*479.68*	
		For Class 55 Rating, Add	*1,066.17*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA	24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,926.54	887.80
		For Class 52 Rating, Deduct	*-723.95*	
		For Class 54 Rating, Add	*493.60*	
		For Class 55 Rating, Add	*1,097.12*	
40 05 19 00-0939	EA	24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,116.42	890.59
		For Class 52 Rating, Deduct	*-744.37*	
		For Class 54 Rating, Add	*507.53*	
		For Class 55 Rating, Add	*1,128.07*	
40 05 19 00-0940	EA	24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,306.30	893.38
		For Class 52 Rating, Deduct	*-764.80*	
		For Class 54 Rating, Add	*521.45*	
		For Class 55 Rating, Add	*1,159.01*	
40 05 19 00-0941	EA	24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,568.09	943.64
		For Class 52 Rating, Deduct	*-785.22*	
		For Class 54 Rating, Add	*535.38*	
		For Class 55 Rating, Add	*1,189.96*	
40 05 19 00-0942	EA	24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,757.97	946.43
		For Class 52 Rating, Deduct	*-805.64*	
		For Class 54 Rating, Add	*549.30*	
		For Class 55 Rating, Add	*1,220.91*	
40 05 19 00-0943	EA	24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,947.86	949.22
		For Class 52 Rating, Deduct	*-826.06*	
		For Class 54 Rating, Add	*563.22*	
		For Class 55 Rating, Add	*1,251.86*	
40 05 19 00-0944	EA	24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,137.74	952.01
		For Class 52 Rating, Deduct	*-846.48*	
		For Class 54 Rating, Add	*577.15*	
		For Class 55 Rating, Add	*1,282.81*	
40 05 19 00-0945	EA	24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,327.62	954.80
		For Class 52 Rating, Deduct	*-866.90*	
		For Class 54 Rating, Add	*591.07*	
		For Class 55 Rating, Add	*1,313.75*	
40 05 19 00-0946	EA	24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,517.50	957.59
		For Class 52 Rating, Deduct	*-887.33*	
		For Class 54 Rating, Add	*605.00*	
		For Class 55 Rating, Add	*1,344.70*	
40 05 19 00-0947	EA	24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,707.37	960.38
		For Class 52 Rating, Deduct	*-907.75*	
		For Class 54 Rating, Add	*618.92*	
		For Class 55 Rating, Add	*1,375.65*	
40 05 19 00-0948	EA	24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,897.26	963.17
		For Class 52 Rating, Deduct	*-928.17*	
		For Class 54 Rating, Add	*632.84*	
		For Class 55 Rating, Add	*1,406.60*	
40 05 19 00-0949	EA	24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,087.15	965.97
		For Class 52 Rating, Deduct	*-948.59*	
		For Class 54 Rating, Add	*646.77*	
		For Class 55 Rating, Add	*1,437.55*	

40 05 19 00-0950 30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*

40 05 19 00-0951	EA	30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,543.81	1,150.23
		For Class 52 Rating, Deduct	*-308.12*	
		For Class 54 Rating, Add	*210.08*	
		For Class 55 Rating, Add	*466.94*	
40 05 19 00-0952	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,816.22	1,153.02
		For Class 52 Rating, Deduct	*-337.61*	
		For Class 54 Rating, Add	*230.19*	
		For Class 55 Rating, Add	*511.64*	
40 05 19 00-0953	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,088.61	1,155.81
		For Class 52 Rating, Deduct	*-367.11*	
		For Class 54 Rating, Add	*250.30*	
		For Class 55 Rating, Add	*556.34*	
40 05 19 00-0954	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,361.00	1,158.60
		For Class 52 Rating, Deduct	*-396.61*	
		For Class 54 Rating, Add	*270.42*	
		For Class 55 Rating, Add	*601.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0955	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,633.40	1,161.39
		For Class 52 Rating, Deduct	*-426.11*	
		For Class 54 Rating, Add	*290.53*	
		For Class 55 Rating, Add	*645.75*	
40 05 19 00-0956	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,905.79	1,164.18
		For Class 52 Rating, Deduct	*-455.61*	
		For Class 54 Rating, Add	*310.64*	
		For Class 55 Rating, Add	*690.45*	
40 05 19 00-0957	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,178.18	1,166.98
		For Class 52 Rating, Deduct	*-485.10*	
		For Class 54 Rating, Add	*330.75*	
		For Class 55 Rating, Add	*735.15*	
40 05 19 00-0958	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,450.58	1,169.77
		For Class 52 Rating, Deduct	*-514.60*	
		For Class 54 Rating, Add	*350.87*	
		For Class 55 Rating, Add	*779.86*	
40 05 19 00-0959	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,722.97	1,172.56
		For Class 52 Rating, Deduct	*-544.10*	
		For Class 54 Rating, Add	*370.98*	
		For Class 55 Rating, Add	*824.56*	
40 05 19 00-0960	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,995.36	1,175.35
		For Class 52 Rating, Deduct	*-573.60*	
		For Class 54 Rating, Add	*391.09*	
		For Class 55 Rating, Add	*869.26*	
40 05 19 00-0961	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,267.75	1,178.14
		For Class 52 Rating, Deduct	*-603.09*	
		For Class 54 Rating, Add	*411.20*	
		For Class 55 Rating, Add	*913.96*	
40 05 19 00-0962	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,540.14	1,180.93
		For Class 52 Rating, Deduct	*-632.59*	
		For Class 54 Rating, Add	*431.31*	
		For Class 55 Rating, Add	*958.67*	
40 05 19 00-0963	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,812.54	1,183.73
		For Class 52 Rating, Deduct	*-662.09*	
		For Class 54 Rating, Add	*451.43*	
		For Class 55 Rating, Add	*1,003.37*	
40 05 19 00-0964	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,084.93	1,186.53
		For Class 52 Rating, Deduct	*-691.59*	
		For Class 54 Rating, Add	*471.54*	
		For Class 55 Rating, Add	*1,048.07*	
40 05 19 00-0965	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,357.33	1,189.32
		For Class 52 Rating, Deduct	*-721.09*	
		For Class 54 Rating, Add	*491.65*	
		For Class 55 Rating, Add	*1,092.78*	
40 05 19 00-0966	EA	30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,629.72	1,192.11
		For Class 52 Rating, Deduct	*-750.59*	
		For Class 54 Rating, Add	*511.76*	
		For Class 55 Rating, Add	*1,137.48*	
40 05 19 00-0967	EA	30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,902.11	1,194.90
		For Class 52 Rating, Deduct	*-780.08*	
		For Class 54 Rating, Add	*531.87*	
		For Class 55 Rating, Add	*1,182.18*	
40 05 19 00-0968	EA	30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,174.49	1,197.69
		For Class 52 Rating, Deduct	*-809.58*	
		For Class 54 Rating, Add	*551.99*	
		For Class 55 Rating, Add	*1,226.88*	
40 05 19 00-0969	EA	30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,446.90	1,200.48
		For Class 52 Rating, Deduct	*-839.08*	
		For Class 54 Rating, Add	*572.10*	
		For Class 55 Rating, Add	*1,271.59*	
40 05 19 00-0970	EA	30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,719.29	1,203.27
		For Class 52 Rating, Deduct	*-868.58*	
		For Class 54 Rating, Add	*592.21*	
		For Class 55 Rating, Add	*1,316.29*	
40 05 19 00-0971	EA	30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,991.68	1,206.06
		For Class 52 Rating, Deduct	*-898.07*	
		For Class 54 Rating, Add	*612.32*	
		For Class 55 Rating, Add	*1,360.99*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0972	EA	30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,264.08	1,208.86
		For Class 52 Rating, Deduct	*-927.57*	
		For Class 54 Rating, Add	*632.44*	
		For Class 55 Rating, Add	*1,405.69*	
40 05 19 00-0973	EA	30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,536.47	1,211.65
		For Class 52 Rating, Deduct	*-957.07*	
		For Class 54 Rating, Add	*652.55*	
		For Class 55 Rating, Add	*1,450.40*	
40 05 19 00-0974	EA	30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,808.86	1,214.44
		For Class 52 Rating, Deduct	*-986.57*	
		For Class 54 Rating, Add	*672.66*	
		For Class 55 Rating, Add	*1,495.10*	
40 05 19 00-0975	EA	30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,081.26	1,217.23
		For Class 52 Rating, Deduct	*-1,016.07*	
		For Class 54 Rating, Add	*692.77*	
		For Class 55 Rating, Add	*1,539.80*	
40 05 19 00-0976	EA	30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,353.65	1,220.02
		For Class 52 Rating, Deduct	*-1,045.56*	
		For Class 54 Rating, Add	*712.88*	
		For Class 55 Rating, Add	*1,584.51*	
40 05 19 00-0977	EA	30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,626.04	1,222.81
		For Class 52 Rating, Deduct	*-1,075.06*	
		For Class 54 Rating, Add	*733.00*	
		For Class 55 Rating, Add	*1,629.21*	
40 05 19 00-0978	EA	30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,898.43	1,225.60
		For Class 52 Rating, Deduct	*-1,104.56*	
		For Class 54 Rating, Add	*753.11*	
		For Class 55 Rating, Add	*1,673.91*	
40 05 19 00-0979	EA	30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,170.82	1,228.40
		For Class 52 Rating, Deduct	*-1,134.06*	
		For Class 54 Rating, Add	*773.22*	
		For Class 55 Rating, Add	*1,718.61*	
40 05 19 00-0980	EA	30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,443.22	1,231.19
		For Class 52 Rating, Deduct	*-1,163.56*	
		For Class 54 Rating, Add	*793.33*	
		For Class 55 Rating, Add	*1,763.32*	
40 05 19 00-0981	EA	30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,715.61	1,233.98
		For Class 52 Rating, Deduct	*-1,193.05*	
		For Class 54 Rating, Add	*813.45*	
		For Class 55 Rating, Add	*1,808.02*	
40 05 19 00-0982	EA	30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,988.01	1,236.77
		For Class 52 Rating, Deduct	*-1,222.55*	
		For Class 54 Rating, Add	*833.56*	
		For Class 55 Rating, Add	*1,852.72*	
40 05 19 00-0983	EA	30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,260.40	1,239.56
		For Class 52 Rating, Deduct	*-1,252.05*	
		For Class 54 Rating, Add	*853.67*	
		For Class 55 Rating, Add	*1,897.42*	
40 05 19 00-0984	EA	30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,532.79	1,242.35
		For Class 52 Rating, Deduct	*-1,281.55*	
		For Class 54 Rating, Add	*873.78*	
		For Class 55 Rating, Add	*1,942.13*	
40 05 19 00-0985	EA	30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,805.19	1,245.15
		For Class 52 Rating, Deduct	*-1,311.05*	
		For Class 54 Rating, Add	*893.90*	
		For Class 55 Rating, Add	*1,986.83*	
40 05 19 00-0986	EA	30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,077.58	1,247.95
		For Class 52 Rating, Deduct	*-1,340.54*	
		For Class 54 Rating, Add	*914.01*	
		For Class 55 Rating, Add	*2,031.53*	
40 05 19 00-0987	EA	30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,349.97	1,250.74
		For Class 52 Rating, Deduct	*-1,370.04*	
		For Class 54 Rating, Add	*934.12*	
		For Class 55 Rating, Add	*2,076.24*	
40 05 19 00-0988	EA	30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,622.36	1,253.53
		For Class 52 Rating, Deduct	*-1,399.54*	
		For Class 54 Rating, Add	*954.23*	
		For Class 55 Rating, Add	*2,120.94*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0989		36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0554)*		
40 05 19 00-0990	EA	36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,156.69	1,457.33
		For Class 52 Rating, Deduct	*-434.35*	
		For Class 54 Rating, Add	*296.15*	
		For Class 55 Rating, Add	*658.23*	
40 05 19 00-0991	EA	36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,525.71	1,460.12
		For Class 52 Rating, Deduct	*-474.48*	
		For Class 54 Rating, Add	*323.51*	
		For Class 55 Rating, Add	*719.05*	
40 05 19 00-0992	EA	36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,894.73	1,462.91
		For Class 52 Rating, Deduct	*-514.60*	
		For Class 54 Rating, Add	*350.87*	
		For Class 55 Rating, Add	*779.86*	
40 05 19 00-0993	EA	36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,263.75	1,465.70
		For Class 52 Rating, Deduct	*-554.73*	
		For Class 54 Rating, Add	*378.22*	
		For Class 55 Rating, Add	*840.66*	
40 05 19 00-0994	EA	36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,632.76	1,468.49
		For Class 52 Rating, Deduct	*-594.85*	
		For Class 54 Rating, Add	*405.58*	
		For Class 55 Rating, Add	*901.48*	
40 05 19 00-0995	EA	36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,001.78	1,471.29
		For Class 52 Rating, Deduct	*-634.98*	
		For Class 54 Rating, Add	*432.94*	
		For Class 55 Rating, Add	*962.29*	
40 05 19 00-0996	EA	36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,370.80	1,474.08
		For Class 52 Rating, Deduct	*-675.11*	
		For Class 54 Rating, Add	*460.30*	
		For Class 55 Rating, Add	*1,023.10*	
40 05 19 00-0997	EA	36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,739.82	1,476.87
		For Class 52 Rating, Deduct	*-715.24*	
		For Class 54 Rating, Add	*487.66*	
		For Class 55 Rating, Add	*1,083.91*	
40 05 19 00-0998	EA	36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,108.84	1,479.66
		For Class 52 Rating, Deduct	*-755.36*	
		For Class 54 Rating, Add	*515.02*	
		For Class 55 Rating, Add	*1,144.72*	
40 05 19 00-0999	EA	36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,477.85	1,482.45
		For Class 52 Rating, Deduct	*-795.49*	
		For Class 54 Rating, Add	*542.38*	
		For Class 55 Rating, Add	*1,205.53*	
40 05 19 00-1000	EA	36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,846.87	1,485.24
		For Class 52 Rating, Deduct	*-835.62*	
		For Class 54 Rating, Add	*569.74*	
		For Class 55 Rating, Add	*1,266.34*	
40 05 19 00-1001	EA	36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,215.89	1,488.03
		For Class 52 Rating, Deduct	*-875.74*	
		For Class 54 Rating, Add	*597.10*	
		For Class 55 Rating, Add	*1,327.15*	
40 05 19 00-1002	EA	36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,584.91	1,490.83
		For Class 52 Rating, Deduct	*-915.87*	
		For Class 54 Rating, Add	*624.46*	
		For Class 55 Rating, Add	*1,387.96*	
40 05 19 00-1003	EA	36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,953.93	1,493.62
		For Class 52 Rating, Deduct	*-956.00*	
		For Class 54 Rating, Add	*651.82*	
		For Class 55 Rating, Add	*1,448.77*	
40 05 19 00-1004	EA	36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,322.96	1,496.41
		For Class 52 Rating, Deduct	*-996.12*	
		For Class 54 Rating, Add	*679.17*	
		For Class 55 Rating, Add	*1,509.58*	
40 05 19 00-1005	EA	36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,691.97	1,499.20
		For Class 52 Rating, Deduct	*-1,036.25*	
		For Class 54 Rating, Add	*706.53*	
		For Class 55 Rating, Add	*1,570.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1006	EA	36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,060.98	1,502.00
		For Class 52 Rating, Deduct	*-1,076.38*	
		For Class 54 Rating, Add	*733.89*	
		For Class 55 Rating, Add	*1,631.20*	
40 05 19 00-1007	EA	36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,430.00	1,504.79
		For Class 52 Rating, Deduct	*-1,116.50*	
		For Class 54 Rating, Add	*761.25*	
		For Class 55 Rating, Add	*1,692.01*	
40 05 19 00-1008	EA	36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,799.02	1,507.58
		For Class 52 Rating, Deduct	*-1,156.63*	
		For Class 54 Rating, Add	*788.61*	
		For Class 55 Rating, Add	*1,752.82*	
40 05 19 00-1009	EA	36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,168.04	1,510.37
		For Class 52 Rating, Deduct	*-1,196.76*	
		For Class 54 Rating, Add	*815.97*	
		For Class 55 Rating, Add	*1,813.63*	
40 05 19 00-1010	EA	36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,537.07	1,513.17
		For Class 52 Rating, Deduct	*-1,236.88*	
		For Class 54 Rating, Add	*843.33*	
		For Class 55 Rating, Add	*1,874.44*	
40 05 19 00-1011	EA	36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,906.08	1,515.96
		For Class 52 Rating, Deduct	*-1,277.01*	
		For Class 54 Rating, Add	*870.69*	
		For Class 55 Rating, Add	*1,935.25*	
40 05 19 00-1012	EA	36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,275.09	1,518.75
		For Class 52 Rating, Deduct	*-1,317.14*	
		For Class 54 Rating, Add	*898.05*	
		For Class 55 Rating, Add	*1,996.06*	
40 05 19 00-1013	EA	36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,644.11	1,521.54
		For Class 52 Rating, Deduct	*-1,357.26*	
		For Class 54 Rating, Add	*925.41*	
		For Class 55 Rating, Add	*2,056.87*	
40 05 19 00-1014	EA	36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,013.13	1,524.33
		For Class 52 Rating, Deduct	*-1,397.39*	
		For Class 54 Rating, Add	*952.77*	
		For Class 55 Rating, Add	*2,117.68*	
40 05 19 00-1015	EA	36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,382.16	1,527.12
		For Class 52 Rating, Deduct	*-1,437.52*	
		For Class 54 Rating, Add	*980.12*	
		For Class 55 Rating, Add	*2,178.49*	
40 05 19 00-1016	EA	36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,751.17	1,529.91
		For Class 52 Rating, Deduct	*-1,477.64*	
		For Class 54 Rating, Add	*1,007.48*	
		For Class 55 Rating, Add	*2,239.30*	
40 05 19 00-1017	EA	36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,120.19	1,532.71
		For Class 52 Rating, Deduct	*-1,517.77*	
		For Class 54 Rating, Add	*1,034.84*	
		For Class 55 Rating, Add	*2,300.11*	
40 05 19 00-1018	EA	36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,489.21	1,535.50
		For Class 52 Rating, Deduct	*-1,557.90*	
		For Class 54 Rating, Add	*1,062.20*	
		For Class 55 Rating, Add	*2,360.92*	
40 05 19 00-1019	EA	36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,858.22	1,538.29
		For Class 52 Rating, Deduct	*-1,598.02*	
		For Class 54 Rating, Add	*1,089.56*	
		For Class 55 Rating, Add	*2,421.73*	
40 05 19 00-1020	EA	36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,227.24	1,541.08
		For Class 52 Rating, Deduct	*-1,638.15*	
		For Class 54 Rating, Add	*1,116.92*	
		For Class 55 Rating, Add	*2,482.54*	
40 05 19 00-1021	EA	36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,596.27	1,543.87
		For Class 52 Rating, Deduct	*-1,678.28*	
		For Class 54 Rating, Add	*1,144.28*	
		For Class 55 Rating, Add	*2,543.35*	
40 05 19 00-1022	EA	36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,965.28	1,546.66
		For Class 52 Rating, Deduct	*-1,718.40*	
		For Class 54 Rating, Add	*1,171.64*	
		For Class 55 Rating, Add	*2,604.16*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1023	EA	36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,334.30	1,549.45
		For Class 52 Rating, Deduct	*-1,758.53*	
		For Class 54 Rating, Add	*1,199.00*	
		For Class 55 Rating, Add	*2,664.97*	
40 05 19 00-1024	EA	36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,703.32	1,552.25
		For Class 52 Rating, Deduct	*-1,798.66*	
		For Class 54 Rating, Add	*1,226.36*	
		For Class 55 Rating, Add	*2,725.78*	
40 05 19 00-1025	EA	36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,072.34	1,555.04
		For Class 52 Rating, Deduct	*-1,838.78*	
		For Class 54 Rating, Add	*1,253.72*	
		For Class 55 Rating, Add	*2,786.59*	
40 05 19 00-1026	EA	36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,441.35	1,557.83
		For Class 52 Rating, Deduct	*-1,878.91*	
		For Class 54 Rating, Add	*1,281.08*	
		For Class 55 Rating, Add	*2,847.40*	
40 05 19 00-1027	EA	36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,810.38	1,560.62
		For Class 52 Rating, Deduct	*-1,919.04*	
		For Class 54 Rating, Add	*1,308.43*	
		For Class 55 Rating, Add	*2,908.21*	

40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-0001)*

40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1030	EA	4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	364.29	136.54
		For Class 52 Rating, Deduct	*-17.32*	
		For Class 54 Rating, Add	*11.81*	
		For Class 55 Rating, Add	*26.24*	
40 05 19 00-1031	EA	4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	396.14	138.92
		For Class 52 Rating, Deduct	*-20.42*	
		For Class 54 Rating, Add	*13.92*	
		For Class 55 Rating, Add	*30.95*	
40 05 19 00-1032	EA	4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	427.98	141.31
		For Class 52 Rating, Deduct	*-23.53*	
		For Class 54 Rating, Add	*16.04*	
		For Class 55 Rating, Add	*35.65*	
40 05 19 00-1033	EA	4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	459.83	143.70
		For Class 52 Rating, Deduct	*-26.63*	
		For Class 54 Rating, Add	*18.16*	
		For Class 55 Rating, Add	*40.36*	
40 05 19 00-1034	EA	4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	491.67	146.08
		For Class 52 Rating, Deduct	*-29.74*	
		For Class 54 Rating, Add	*20.27*	
		For Class 55 Rating, Add	*45.06*	
40 05 19 00-1035	EA	4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	523.51	148.47
		For Class 52 Rating, Deduct	*-32.84*	
		For Class 54 Rating, Add	*22.39*	
		For Class 55 Rating, Add	*49.77*	
40 05 19 00-1036	EA	4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	555.36	150.87
		For Class 52 Rating, Deduct	*-35.95*	
		For Class 54 Rating, Add	*24.51*	
		For Class 55 Rating, Add	*54.48*	
40 05 19 00-1037	EA	4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	587.21	153.24
		For Class 52 Rating, Deduct	*-39.05*	
		For Class 54 Rating, Add	*26.63*	
		For Class 55 Rating, Add	*59.18*	
40 05 19 00-1038	EA	4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	619.04	155.64
		For Class 52 Rating, Deduct	*-42.16*	
		For Class 54 Rating, Add	*28.74*	
		For Class 55 Rating, Add	*63.89*	
40 05 19 00-1039	EA	4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	650.89	158.02
		For Class 52 Rating, Deduct	*-45.26*	
		For Class 54 Rating, Add	*30.86*	
		For Class 55 Rating, Add	*68.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1040	EA	4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	682.74	160.40
		For Class 52 Rating, Deduct	*-48.37*	
		For Class 54 Rating, Add	*32.98*	
		For Class 55 Rating, Add	*73.30*	
40 05 19 00-1041	EA	4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	714.58	162.80
		For Class 52 Rating, Deduct	*-51.47*	
		For Class 54 Rating, Add	*35.09*	
		For Class 55 Rating, Add	*78.00*	
40 05 19 00-1042	EA	4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	746.43	165.18
		For Class 52 Rating, Deduct	*-54.58*	
		For Class 54 Rating, Add	*37.21*	
		For Class 55 Rating, Add	*82.71*	
40 05 19 00-1043	EA	4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	778.27	167.57
		For Class 52 Rating, Deduct	*-57.68*	
		For Class 54 Rating, Add	*39.33*	
		For Class 55 Rating, Add	*87.41*	
40 05 19 00-1044	EA	4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	810.11	169.96
		For Class 52 Rating, Deduct	*-60.79*	
		For Class 54 Rating, Add	*41.45*	
		For Class 55 Rating, Add	*92.12*	
40 05 19 00-1045	EA	4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	841.96	172.34
		For Class 52 Rating, Deduct	*-63.89*	
		For Class 54 Rating, Add	*43.56*	
		For Class 55 Rating, Add	*96.83*	
40 05 19 00-1046	EA	4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	873.81	174.73
		For Class 52 Rating, Deduct	*-67.00*	
		For Class 54 Rating, Add	*45.68*	
		For Class 55 Rating, Add	*101.53*	
40 05 19 00-1047	EA	4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	905.64	177.11
		For Class 52 Rating, Deduct	*-70.10*	
		For Class 54 Rating, Add	*47.80*	
		For Class 55 Rating, Add	*106.24*	
40 05 19 00-1048	EA	4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	937.49	179.50
		For Class 52 Rating, Deduct	*-73.21*	
		For Class 54 Rating, Add	*49.91*	
		For Class 55 Rating, Add	*110.94*	
40 05 19 00-1049	EA	4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	969.34	181.89
		For Class 52 Rating, Deduct	*-76.31*	
		For Class 54 Rating, Add	*52.03*	
		For Class 55 Rating, Add	*115.65*	
40 05 19 00-1050	EA	4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,001.18	184.28
		For Class 52 Rating, Deduct	*-79.42*	
		For Class 54 Rating, Add	*54.15*	
		For Class 55 Rating, Add	*120.35*	
40 05 19 00-1051	EA	4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,033.02	186.66
		For Class 52 Rating, Deduct	*-82.52*	
		For Class 54 Rating, Add	*56.27*	
		For Class 55 Rating, Add	*125.06*	
40 05 19 00-1052	EA	4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,064.87	189.06
		For Class 52 Rating, Deduct	*-85.63*	
		For Class 54 Rating, Add	*58.38*	
		For Class 55 Rating, Add	*129.76*	
40 05 19 00-1053	EA	4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,096.71	191.44
		For Class 52 Rating, Deduct	*-88.73*	
		For Class 54 Rating, Add	*60.50*	
		For Class 55 Rating, Add	*134.47*	
40 05 19 00-1054	EA	4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,128.56	193.82
		For Class 52 Rating, Deduct	*-91.84*	
		For Class 54 Rating, Add	*62.62*	
		For Class 55 Rating, Add	*139.18*	
40 05 19 00-1055	EA	4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,160.41	196.21
		For Class 52 Rating, Deduct	*-94.94*	
		For Class 54 Rating, Add	*64.73*	
		For Class 55 Rating, Add	*143.88*	
40 05 19 00-1056	EA	4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,192.24	198.60
		For Class 52 Rating, Deduct	*-98.05*	
		For Class 54 Rating, Add	*66.85*	
		For Class 55 Rating, Add	*148.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1057	EA	4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,224.09	200.99
		For Class 52 Rating, Deduct	*-101.15*	
		For Class 54 Rating, Add	*68.97*	
		For Class 55 Rating, Add	*153.29*	
40 05 19 00-1058	EA	4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,255.94	203.37
		For Class 52 Rating, Deduct	*-104.26*	
		For Class 54 Rating, Add	*71.09*	
		For Class 55 Rating, Add	*158.00*	
40 05 19 00-1059	EA	4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,287.78	205.76
		For Class 52 Rating, Deduct	*-107.36*	
		For Class 54 Rating, Add	*73.20*	
		For Class 55 Rating, Add	*162.70*	
40 05 19 00-1060	EA	4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,319.62	208.15
		For Class 52 Rating, Deduct	*-110.47*	
		For Class 54 Rating, Add	*75.32*	
		For Class 55 Rating, Add	*167.41*	
40 05 19 00-1061	EA	4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,351.47	210.54
		For Class 52 Rating, Deduct	*-113.57*	
		For Class 54 Rating, Add	*77.44*	
		For Class 55 Rating, Add	*172.11*	
40 05 19 00-1062	EA	4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,383.31	212.92
		For Class 52 Rating, Deduct	*-116.68*	
		For Class 54 Rating, Add	*79.55*	
		For Class 55 Rating, Add	*176.82*	
40 05 19 00-1063	EA	4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,415.16	215.30
		For Class 52 Rating, Deduct	*-119.78*	
		For Class 54 Rating, Add	*81.67*	
		For Class 55 Rating, Add	*181.53*	
40 05 19 00-1064	EA	4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,447.00	217.70
		For Class 52 Rating, Deduct	*-122.89*	
		For Class 54 Rating, Add	*83.79*	
		For Class 55 Rating, Add	*186.23*	
40 05 19 00-1065	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,478.84	220.08
		For Class 52 Rating, Deduct	*-125.99*	
		For Class 54 Rating, Add	*85.90*	
		For Class 55 Rating, Add	*190.94*	
40 05 19 00-1066	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,510.69	222.47
		For Class 52 Rating, Deduct	*-129.10*	
		For Class 54 Rating, Add	*88.02*	
		For Class 55 Rating, Add	*195.64*	
40 05 19 00-1067	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,542.54	224.86
		For Class 52 Rating, Deduct	*-132.20*	
		For Class 54 Rating, Add	*90.14*	
		For Class 55 Rating, Add	*200.35*	
40 05 19 00-1068	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,574.38	227.25
		For Class 52 Rating, Deduct	*-135.31*	
		For Class 54 Rating, Add	*92.26*	
		For Class 55 Rating, Add	*205.05*	

40 05 19 00-1069 6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1070	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	456.91	171.87
		For Class 52 Rating, Deduct	*-21.62*	
		For Class 54 Rating, Add	*14.74*	
		For Class 55 Rating, Add	*32.76*	
40 05 19 00-1071	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	495.27	174.26
		For Class 52 Rating, Deduct	*-25.44*	
		For Class 54 Rating, Add	*17.34*	
		For Class 55 Rating, Add	*38.55*	
40 05 19 00-1072	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	533.62	176.63
		For Class 52 Rating, Deduct	*-29.26*	
		For Class 54 Rating, Add	*19.95*	
		For Class 55 Rating, Add	*44.34*	
40 05 19 00-1073	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	571.98	179.03
		For Class 52 Rating, Deduct	*-33.08*	
		For Class 54 Rating, Add	*22.55*	
		For Class 55 Rating, Add	*50.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1074	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	610.35	181.41
		For Class 52 Rating, Deduct	*-36.90*	
		For Class 54 Rating, Add	*25.16*	
		For Class 55 Rating, Add	*55.92*	
40 05 19 00-1075	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	648.70	183.80
		For Class 52 Rating, Deduct	*-40.72*	
		For Class 54 Rating, Add	*27.77*	
		For Class 55 Rating, Add	*61.72*	
40 05 19 00-1076	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	687.06	186.19
		For Class 52 Rating, Deduct	*-44.55*	
		For Class 54 Rating, Add	*30.37*	
		For Class 55 Rating, Add	*67.51*	
40 05 19 00-1077	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	725.42	188.57
		For Class 52 Rating, Deduct	*-48.37*	
		For Class 54 Rating, Add	*32.98*	
		For Class 55 Rating, Add	*73.30*	
40 05 19 00-1078	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	763.77	190.97
		For Class 52 Rating, Deduct	*-52.19*	
		For Class 54 Rating, Add	*35.58*	
		For Class 55 Rating, Add	*79.09*	
40 05 19 00-1079	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	802.13	193.34
		For Class 52 Rating, Deduct	*-56.01*	
		For Class 54 Rating, Add	*38.19*	
		For Class 55 Rating, Add	*84.88*	
40 05 19 00-1080	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	840.50	195.73
		For Class 52 Rating, Deduct	*-59.83*	
		For Class 54 Rating, Add	*40.79*	
		For Class 55 Rating, Add	*90.67*	
40 05 19 00-1081	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	878.85	198.13
		For Class 52 Rating, Deduct	*-63.65*	
		For Class 54 Rating, Add	*43.40*	
		For Class 55 Rating, Add	*96.46*	
40 05 19 00-1082	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	917.21	200.50
		For Class 52 Rating, Deduct	*-67.48*	
		For Class 54 Rating, Add	*46.01*	
		For Class 55 Rating, Add	*102.26*	
40 05 19 00-1083	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	955.57	202.89
		For Class 52 Rating, Deduct	*-71.30*	
		For Class 54 Rating, Add	*48.61*	
		For Class 55 Rating, Add	*108.05*	
40 05 19 00-1084	EA	6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	993.92	205.29
		For Class 52 Rating, Deduct	*-75.12*	
		For Class 54 Rating, Add	*51.22*	
		For Class 55 Rating, Add	*113.84*	
40 05 19 00-1085	EA	6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,032.28	207.67
		For Class 52 Rating, Deduct	*-78.94*	
		For Class 54 Rating, Add	*53.82*	
		For Class 55 Rating, Add	*119.63*	
40 05 19 00-1086	EA	6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,070.65	210.05
		For Class 52 Rating, Deduct	*-82.76*	
		For Class 54 Rating, Add	*56.43*	
		For Class 55 Rating, Add	*125.42*	
40 05 19 00-1087	EA	6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,109.00	212.44
		For Class 52 Rating, Deduct	*-86.58*	
		For Class 54 Rating, Add	*59.03*	
		For Class 55 Rating, Add	*131.21*	
40 05 19 00-1088	EA	6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,147.36	214.83
		For Class 52 Rating, Deduct	*-90.40*	
		For Class 54 Rating, Add	*61.64*	
		For Class 55 Rating, Add	*137.00*	
40 05 19 00-1089	EA	6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,185.72	217.22
		For Class 52 Rating, Deduct	*-94.23*	
		For Class 54 Rating, Add	*64.25*	
		For Class 55 Rating, Add	*142.80*	
40 05 19 00-1090	EA	6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,224.07	219.60
		For Class 52 Rating, Deduct	*-98.05*	
		For Class 54 Rating, Add	*66.85*	
		For Class 55 Rating, Add	*148.59*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1091	EA	6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,262.43	221.99
		For Class 52 Rating, Deduct	*-101.87*	
		For Class 54 Rating, Add	*69.46*	
		For Class 55 Rating, Add	*154.38*	
40 05 19 00-1092	EA	6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,300.80	224.39
		For Class 52 Rating, Deduct	*-105.69*	
		For Class 54 Rating, Add	*72.06*	
		For Class 55 Rating, Add	*160.17*	
40 05 19 00-1093	EA	6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,339.15	226.76
		For Class 52 Rating, Deduct	*-109.51*	
		For Class 54 Rating, Add	*74.67*	
		For Class 55 Rating, Add	*165.96*	
40 05 19 00-1094	EA	6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,377.51	229.15
		For Class 52 Rating, Deduct	*-113.33*	
		For Class 54 Rating, Add	*77.27*	
		For Class 55 Rating, Add	*171.75*	
40 05 19 00-1095	EA	6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,415.87	231.54
		For Class 52 Rating, Deduct	*-117.16*	
		For Class 54 Rating, Add	*79.88*	
		For Class 55 Rating, Add	*177.54*	
40 05 19 00-1096	EA	6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,454.22	233.93
		For Class 52 Rating, Deduct	*-120.98*	
		For Class 54 Rating, Add	*82.48*	
		For Class 55 Rating, Add	*183.33*	
40 05 19 00-1097	EA	6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,492.59	236.31
		For Class 52 Rating, Deduct	*-124.80*	
		For Class 54 Rating, Add	*85.09*	
		For Class 55 Rating, Add	*189.13*	
40 05 19 00-1098	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,530.95	238.70
		For Class 52 Rating, Deduct	*-128.62*	
		For Class 54 Rating, Add	*87.70*	
		For Class 55 Rating, Add	*194.92*	
40 05 19 00-1099	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,569.30	241.09
		For Class 52 Rating, Deduct	*-132.44*	
		For Class 54 Rating, Add	*90.30*	
		For Class 55 Rating, Add	*200.71*	
40 05 19 00-1100	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,607.66	243.46
		For Class 52 Rating, Deduct	*-136.26*	
		For Class 54 Rating, Add	*92.91*	
		For Class 55 Rating, Add	*206.50*	
40 05 19 00-1101	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,646.02	245.86
		For Class 52 Rating, Deduct	*-140.09*	
		For Class 54 Rating, Add	*95.51*	
		For Class 55 Rating, Add	*212.29*	
40 05 19 00-1102	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,684.37	248.25
		For Class 52 Rating, Deduct	*-143.91*	
		For Class 54 Rating, Add	*98.12*	
		For Class 55 Rating, Add	*218.08*	
40 05 19 00-1103	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,722.74	250.63
		For Class 52 Rating, Deduct	*-147.73*	
		For Class 54 Rating, Add	*100.72*	
		For Class 55 Rating, Add	*223.88*	
40 05 19 00-1104	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,761.10	253.02
		For Class 52 Rating, Deduct	*-151.55*	
		For Class 54 Rating, Add	*103.33*	
		For Class 55 Rating, Add	*229.67*	
40 05 19 00-1105	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,799.45	255.41
		For Class 52 Rating, Deduct	*-155.37*	
		For Class 54 Rating, Add	*105.94*	
		For Class 55 Rating, Add	*235.46*	
40 05 19 00-1106	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,837.81	257.80
		For Class 52 Rating, Deduct	*-159.19*	
		For Class 54 Rating, Add	*108.54*	
		For Class 55 Rating, Add	*241.25*	
40 05 19 00-1107	EA	6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,876.17	260.18
		For Class 52 Rating, Deduct	*-163.01*	
		For Class 54 Rating, Add	*111.15*	
		For Class 55 Rating, Add	*247.04*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1108	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,914.53	262.56
		For Class 52 Rating, Deduct	*-166.84*	
		For Class 54 Rating, Add	*113.75*	
		For Class 55 Rating, Add	*252.83*	

40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1110	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	618.26	219.60
		For Class 52 Rating, Deduct	*-31.41*	
		For Class 54 Rating, Add	*21.41*	
		For Class 55 Rating, Add	*47.60*	
40 05 19 00-1111	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	669.65	221.99
		For Class 52 Rating, Deduct	*-36.66*	
		For Class 54 Rating, Add	*25.00*	
		For Class 55 Rating, Add	*55.56*	
40 05 19 00-1112	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	721.04	224.39
		For Class 52 Rating, Deduct	*-41.92*	
		For Class 54 Rating, Add	*28.58*	
		For Class 55 Rating, Add	*63.52*	
40 05 19 00-1113	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	772.42	226.76
		For Class 52 Rating, Deduct	*-47.17*	
		For Class 54 Rating, Add	*32.16*	
		For Class 55 Rating, Add	*71.49*	
40 05 19 00-1114	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	823.81	229.15
		For Class 52 Rating, Deduct	*-52.43*	
		For Class 54 Rating, Add	*35.75*	
		For Class 55 Rating, Add	*79.45*	
40 05 19 00-1115	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	875.20	231.54
		For Class 52 Rating, Deduct	*-57.68*	
		For Class 54 Rating, Add	*39.33*	
		For Class 55 Rating, Add	*87.41*	
40 05 19 00-1116	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	926.58	233.93
		For Class 52 Rating, Deduct	*-62.94*	
		For Class 54 Rating, Add	*42.91*	
		For Class 55 Rating, Add	*95.38*	
40 05 19 00-1117	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	977.97	236.31
		For Class 52 Rating, Deduct	*-68.19*	
		For Class 54 Rating, Add	*46.49*	
		For Class 55 Rating, Add	*103.34*	
40 05 19 00-1118	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,029.36	238.70
		For Class 52 Rating, Deduct	*-73.45*	
		For Class 54 Rating, Add	*50.08*	
		For Class 55 Rating, Add	*111.30*	
40 05 19 00-1119	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,080.74	241.09
		For Class 52 Rating, Deduct	*-78.70*	
		For Class 54 Rating, Add	*53.66*	
		For Class 55 Rating, Add	*119.27*	
40 05 19 00-1120	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,132.13	243.46
		For Class 52 Rating, Deduct	*-83.96*	
		For Class 54 Rating, Add	*57.24*	
		For Class 55 Rating, Add	*127.23*	
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,183.52	245.86
		For Class 52 Rating, Deduct	*-89.21*	
		For Class 54 Rating, Add	*60.83*	
		For Class 55 Rating, Add	*135.19*	
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,234.90	248.25
		For Class 52 Rating, Deduct	*-94.46*	
		For Class 54 Rating, Add	*64.41*	
		For Class 55 Rating, Add	*143.16*	
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,286.29	250.63
		For Class 52 Rating, Deduct	*-99.72*	
		For Class 54 Rating, Add	*67.99*	
		For Class 55 Rating, Add	*151.12*	
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,337.68	253.02
		For Class 52 Rating, Deduct	*-104.97*	
		For Class 54 Rating, Add	*71.57*	
		For Class 55 Rating, Add	*159.08*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1125	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,389.06	255.41
		For Class 52 Rating, Deduct	*-110.23*	
		For Class 54 Rating, Add	*75.16*	
		For Class 55 Rating, Add	*167.05*	
40 05 19 00-1126	EA	8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,440.45	257.80
		For Class 52 Rating, Deduct	*-115.48*	
		For Class 54 Rating, Add	*78.74*	
		For Class 55 Rating, Add	*175.01*	
40 05 19 00-1127	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,491.84	260.18
		For Class 52 Rating, Deduct	*-120.74*	
		For Class 54 Rating, Add	*82.32*	
		For Class 55 Rating, Add	*182.97*	
40 05 19 00-1128	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,543.22	262.56
		For Class 52 Rating, Deduct	*-125.99*	
		For Class 54 Rating, Add	*85.90*	
		For Class 55 Rating, Add	*190.94*	
40 05 19 00-1129	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,594.61	264.96
		For Class 52 Rating, Deduct	*-131.25*	
		For Class 54 Rating, Add	*89.49*	
		For Class 55 Rating, Add	*198.90*	
40 05 19 00-1130	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,646.00	267.35
		For Class 52 Rating, Deduct	*-136.50*	
		For Class 54 Rating, Add	*93.07*	
		For Class 55 Rating, Add	*206.86*	
40 05 19 00-1131	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,697.38	269.72
		For Class 52 Rating, Deduct	*-141.76*	
		For Class 54 Rating, Add	*96.65*	
		For Class 55 Rating, Add	*214.83*	
40 05 19 00-1132	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,748.77	272.12
		For Class 52 Rating, Deduct	*-147.01*	
		For Class 54 Rating, Add	*100.24*	
		For Class 55 Rating, Add	*222.79*	
40 05 19 00-1133	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,800.16	274.51
		For Class 52 Rating, Deduct	*-152.27*	
		For Class 54 Rating, Add	*103.82*	
		For Class 55 Rating, Add	*230.75*	
40 05 19 00-1134	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,851.54	276.89
		For Class 52 Rating, Deduct	*-157.52*	
		For Class 54 Rating, Add	*107.40*	
		For Class 55 Rating, Add	*238.72*	
40 05 19 00-1135	EA	8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,902.93	279.28
		For Class 52 Rating, Deduct	*-162.78*	
		For Class 54 Rating, Add	*110.98*	
		For Class 55 Rating, Add	*246.68*	
40 05 19 00-1136	EA	8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,954.32	281.66
		For Class 52 Rating, Deduct	*-168.03*	
		For Class 54 Rating, Add	*114.57*	
		For Class 55 Rating, Add	*254.64*	
40 05 19 00-1137	EA	8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,005.70	284.06
		For Class 52 Rating, Deduct	*-173.29*	
		For Class 54 Rating, Add	*118.15*	
		For Class 55 Rating, Add	*262.61*	
40 05 19 00-1138	EA	8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,057.09	286.44
		For Class 52 Rating, Deduct	*-178.54*	
		For Class 54 Rating, Add	*121.73*	
		For Class 55 Rating, Add	*270.57*	
40 05 19 00-1139	EA	8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,108.48	288.82
		For Class 52 Rating, Deduct	*-183.79*	
		For Class 54 Rating, Add	*125.31*	
		For Class 55 Rating, Add	*278.53*	
40 05 19 00-1140	EA	8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,159.86	291.22
		For Class 52 Rating, Deduct	*-189.05*	
		For Class 54 Rating, Add	*128.90*	
		For Class 55 Rating, Add	*286.50*	
40 05 19 00-1141	EA	8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,211.26	293.61
		For Class 52 Rating, Deduct	*-194.30*	
		For Class 54 Rating, Add	*132.48*	
		For Class 55 Rating, Add	*294.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1142	EA	8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,262.64	295.98
		For Class 52 Rating, Deduct	*-199.56*	
		For Class 54 Rating, Add	*136.06*	
		For Class 55 Rating, Add	*302.42*	
40 05 19 00-1143	EA	8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,314.02	298.38
		For Class 52 Rating, Deduct	*-204.81*	
		For Class 54 Rating, Add	*139.65*	
		For Class 55 Rating, Add	*310.39*	
40 05 19 00-1144	EA	8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,365.42	300.76
		For Class 52 Rating, Deduct	*-210.07*	
		For Class 54 Rating, Add	*143.23*	
		For Class 55 Rating, Add	*318.35*	
40 05 19 00-1145	EA	8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,416.80	303.14
		For Class 52 Rating, Deduct	*-215.32*	
		For Class 54 Rating, Add	*146.81*	
		For Class 55 Rating, Add	*326.31*	
40 05 19 00-1146	EA	8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,468.18	305.54
		For Class 52 Rating, Deduct	*-220.58*	
		For Class 54 Rating, Add	*150.39*	
		For Class 55 Rating, Add	*334.28*	
40 05 19 00-1147	EA	8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,519.57	307.92
		For Class 52 Rating, Deduct	*-225.83*	
		For Class 54 Rating, Add	*153.98*	
		For Class 55 Rating, Add	*342.24*	
40 05 19 00-1148	EA	8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,570.96	310.31
		For Class 52 Rating, Deduct	*-231.09*	
		For Class 54 Rating, Add	*157.56*	
		For Class 55 Rating, Add	*350.20*	

40 05 19 00-1149 10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1150	EA	10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	773.12	267.35
		For Class 52 Rating, Deduct	*-40.49*	
		For Class 54 Rating, Add	*27.60*	
		For Class 55 Rating, Add	*61.35*	
40 05 19 00-1151	EA	10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	839.70	269.72
		For Class 52 Rating, Deduct	*-47.41*	
		For Class 54 Rating, Add	*32.33*	
		For Class 55 Rating, Add	*71.85*	
40 05 19 00-1152	EA	10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	906.28	272.12
		For Class 52 Rating, Deduct	*-54.34*	
		For Class 54 Rating, Add	*37.05*	
		For Class 55 Rating, Add	*82.35*	
40 05 19 00-1153	EA	10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	972.87	274.51
		For Class 52 Rating, Deduct	*-61.26*	
		For Class 54 Rating, Add	*41.77*	
		For Class 55 Rating, Add	*92.84*	
40 05 19 00-1154	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,039.45	276.89
		For Class 52 Rating, Deduct	*-68.19*	
		For Class 54 Rating, Add	*46.49*	
		For Class 55 Rating, Add	*103.34*	
40 05 19 00-1155	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,106.04	279.28
		For Class 52 Rating, Deduct	*-75.12*	
		For Class 54 Rating, Add	*51.22*	
		For Class 55 Rating, Add	*113.84*	
40 05 19 00-1156	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,172.63	281.66
		For Class 52 Rating, Deduct	*-82.04*	
		For Class 54 Rating, Add	*55.94*	
		For Class 55 Rating, Add	*124.33*	
40 05 19 00-1157	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,239.21	284.06
		For Class 52 Rating, Deduct	*-88.97*	
		For Class 54 Rating, Add	*60.66*	
		For Class 55 Rating, Add	*134.83*	
40 05 19 00-1158	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,305.80	286.44
		For Class 52 Rating, Deduct	*-95.90*	
		For Class 54 Rating, Add	*65.39*	
		For Class 55 Rating, Add	*145.33*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1159	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,372.39	288.82
		For Class 52 Rating, Deduct	*-102.82*	
		For Class 54 Rating, Add	*70.11*	
		For Class 55 Rating, Add	*155.83*	
40 05 19 00-1160	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,438.97	291.22
		For Class 52 Rating, Deduct	*-109.75*	
		For Class 54 Rating, Add	*74.83*	
		For Class 55 Rating, Add	*166.32*	
40 05 19 00-1161	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,505.57	293.61
		For Class 52 Rating, Deduct	*-116.68*	
		For Class 54 Rating, Add	*79.55*	
		For Class 55 Rating, Add	*176.82*	
40 05 19 00-1162	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,572.15	295.98
		For Class 52 Rating, Deduct	*-123.60*	
		For Class 54 Rating, Add	*84.28*	
		For Class 55 Rating, Add	*187.32*	
40 05 19 00-1163	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,638.73	298.38
		For Class 52 Rating, Deduct	*-130.53*	
		For Class 54 Rating, Add	*89.00*	
		For Class 55 Rating, Add	*197.81*	
40 05 19 00-1164	EA	10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,705.33	300.76
		For Class 52 Rating, Deduct	*-137.46*	
		For Class 54 Rating, Add	*93.72*	
		For Class 55 Rating, Add	*208.31*	
40 05 19 00-1165	EA	10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,771.91	303.14
		For Class 52 Rating, Deduct	*-144.38*	
		For Class 54 Rating, Add	*98.44*	
		For Class 55 Rating, Add	*218.81*	
40 05 19 00-1166	EA	10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,838.49	305.54
		For Class 52 Rating, Deduct	*-151.31*	
		For Class 54 Rating, Add	*103.17*	
		For Class 55 Rating, Add	*229.31*	
40 05 19 00-1167	EA	10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,905.08	307.92
		For Class 52 Rating, Deduct	*-158.24*	
		For Class 54 Rating, Add	*107.89*	
		For Class 55 Rating, Add	*239.80*	
40 05 19 00-1168	EA	10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,971.67	310.31
		For Class 52 Rating, Deduct	*-165.17*	
		For Class 54 Rating, Add	*112.61*	
		For Class 55 Rating, Add	*250.30*	
40 05 19 00-1169	EA	10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,038.24	312.70
		For Class 52 Rating, Deduct	*-172.09*	
		For Class 54 Rating, Add	*117.33*	
		For Class 55 Rating, Add	*260.80*	
40 05 19 00-1170	EA	10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,104.83	315.08
		For Class 52 Rating, Deduct	*-179.02*	
		For Class 54 Rating, Add	*122.06*	
		For Class 55 Rating, Add	*271.29*	
40 05 19 00-1171	EA	10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,171.42	317.48
		For Class 52 Rating, Deduct	*-185.94*	
		For Class 54 Rating, Add	*126.78*	
		For Class 55 Rating, Add	*281.79*	
40 05 19 00-1172	EA	10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,238.00	319.85
		For Class 52 Rating, Deduct	*-192.87*	
		For Class 54 Rating, Add	*131.50*	
		For Class 55 Rating, Add	*292.29*	
40 05 19 00-1173	EA	10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,304.59	322.24
		For Class 52 Rating, Deduct	*-199.80*	
		For Class 54 Rating, Add	*136.23*	
		For Class 55 Rating, Add	*302.78*	
40 05 19 00-1174	EA	10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,371.18	324.64
		For Class 52 Rating, Deduct	*-206.72*	
		For Class 54 Rating, Add	*140.95*	
		For Class 55 Rating, Add	*313.28*	
40 05 19 00-1175	EA	10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,437.76	327.02
		For Class 52 Rating, Deduct	*-213.65*	
		For Class 54 Rating, Add	*145.67*	
		For Class 55 Rating, Add	*323.78*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1176	EA	10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,504.35	329.40
		For Class 52 Rating, Deduct	*-220.58*	
		For Class 54 Rating, Add	*150.39*	
		For Class 55 Rating, Add	*334.28*	
40 05 19 00-1177	EA	10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,570.94	331.80
		For Class 52 Rating, Deduct	*-227.50*	
		For Class 54 Rating, Add	*155.12*	
		For Class 55 Rating, Add	*344.77*	
40 05 19 00-1178	EA	10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,637.52	334.18
		For Class 52 Rating, Deduct	*-234.43*	
		For Class 54 Rating, Add	*159.84*	
		For Class 55 Rating, Add	*355.27*	
40 05 19 00-1179	EA	10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,704.11	336.57
		For Class 52 Rating, Deduct	*-241.36*	
		For Class 54 Rating, Add	*164.56*	
		For Class 55 Rating, Add	*365.77*	
40 05 19 00-1180	EA	10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,770.70	338.95
		For Class 52 Rating, Deduct	*-248.28*	
		For Class 54 Rating, Add	*169.28*	
		For Class 55 Rating, Add	*376.26*	
40 05 19 00-1181	EA	10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,837.28	341.34
		For Class 52 Rating, Deduct	*-255.21*	
		For Class 54 Rating, Add	*174.01*	
		For Class 55 Rating, Add	*386.76*	
40 05 19 00-1182	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,903.87	343.73
		For Class 52 Rating, Deduct	*-262.14*	
		For Class 54 Rating, Add	*178.73*	
		For Class 55 Rating, Add	*397.26*	
40 05 19 00-1183	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,970.46	346.11
		For Class 52 Rating, Deduct	*-269.06*	
		For Class 54 Rating, Add	*183.45*	
		For Class 55 Rating, Add	*407.75*	
40 05 19 00-1184	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,037.04	348.50
		For Class 52 Rating, Deduct	*-275.99*	
		For Class 54 Rating, Add	*188.18*	
		For Class 55 Rating, Add	*418.25*	
40 05 19 00-1185	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,103.63	350.90
		For Class 52 Rating, Deduct	*-282.92*	
		For Class 54 Rating, Add	*192.90*	
		For Class 55 Rating, Add	*428.75*	
40 05 19 00-1186	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,170.22	353.28
		For Class 52 Rating, Deduct	*-289.84*	
		For Class 54 Rating, Add	*197.62*	
		For Class 55 Rating, Add	*439.25*	
40 05 19 00-1187	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,236.79	355.66
		For Class 52 Rating, Deduct	*-296.77*	
		For Class 54 Rating, Add	*202.34*	
		For Class 55 Rating, Add	*449.74*	
40 05 19 00-1188	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,303.38	358.05
		For Class 52 Rating, Deduct	*-303.70*	
		For Class 54 Rating, Add	*207.07*	
		For Class 55 Rating, Add	*460.24*	

40 05 19 00-1189 12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1190	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	997.06	334.18
		For Class 52 Rating, Deduct	*-53.98*	
		For Class 54 Rating, Add	*36.80*	
		For Class 55 Rating, Add	*81.80*	
40 05 19 00-1191	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,079.93	336.57
		For Class 52 Rating, Deduct	*-62.70*	
		For Class 54 Rating, Add	*42.75*	
		For Class 55 Rating, Add	*95.02*	
40 05 19 00-1192	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,162.81	338.95
		For Class 52 Rating, Deduct	*-71.42*	
		For Class 54 Rating, Add	*48.69*	
		For Class 55 Rating, Add	*108.23*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1193	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,245.67	341.34
		For Class 52 Rating, Deduct	*-80.13*	
		For Class 54 Rating, Add	*54.64*	
		For Class 55 Rating, Add	*121.44*	
40 05 19 00-1194	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,328.55	343.73
		For Class 52 Rating, Deduct	*-88.85*	
		For Class 54 Rating, Add	*60.58*	
		For Class 55 Rating, Add	*134.65*	
40 05 19 00-1195	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,411.42	346.11
		For Class 52 Rating, Deduct	*-97.57*	
		For Class 54 Rating, Add	*66.53*	
		For Class 55 Rating, Add	*147.86*	
40 05 19 00-1196	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,494.29	348.50
		For Class 52 Rating, Deduct	*-106.29*	
		For Class 54 Rating, Add	*72.47*	
		For Class 55 Rating, Add	*161.08*	
40 05 19 00-1197	EA	12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,577.16	350.90
		For Class 52 Rating, Deduct	*-115.01*	
		For Class 54 Rating, Add	*78.41*	
		For Class 55 Rating, Add	*174.29*	
40 05 19 00-1198	EA	12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,660.03	353.28
		For Class 52 Rating, Deduct	*-123.72*	
		For Class 54 Rating, Add	*84.36*	
		For Class 55 Rating, Add	*187.50*	
40 05 19 00-1199	EA	12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,742.90	355.66
		For Class 52 Rating, Deduct	*-132.44*	
		For Class 54 Rating, Add	*90.30*	
		For Class 55 Rating, Add	*200.71*	
40 05 19 00-1200	EA	12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,825.77	358.05
		For Class 52 Rating, Deduct	*-141.16*	
		For Class 54 Rating, Add	*96.25*	
		For Class 55 Rating, Add	*213.92*	
40 05 19 00-1201	EA	12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,908.65	360.44
		For Class 52 Rating, Deduct	*-149.88*	
		For Class 54 Rating, Add	*102.19*	
		For Class 55 Rating, Add	*227.13*	
40 05 19 00-1202	EA	12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,991.51	362.82
		For Class 52 Rating, Deduct	*-158.60*	
		For Class 54 Rating, Add	*108.13*	
		For Class 55 Rating, Add	*240.34*	
40 05 19 00-1203	EA	12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,074.39	365.21
		For Class 52 Rating, Deduct	*-167.31*	
		For Class 54 Rating, Add	*114.08*	
		For Class 55 Rating, Add	*253.56*	
40 05 19 00-1204	EA	12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,157.26	367.60
		For Class 52 Rating, Deduct	*-176.03*	
		For Class 54 Rating, Add	*120.02*	
		For Class 55 Rating, Add	*266.77*	
40 05 19 00-1205	EA	12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,240.13	369.99
		For Class 52 Rating, Deduct	*-184.75*	
		For Class 54 Rating, Add	*125.97*	
		For Class 55 Rating, Add	*279.98*	
40 05 19 00-1206	EA	12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,323.00	372.37
		For Class 52 Rating, Deduct	*-193.47*	
		For Class 54 Rating, Add	*131.91*	
		For Class 55 Rating, Add	*293.19*	
40 05 19 00-1207	EA	12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,405.88	374.76
		For Class 52 Rating, Deduct	*-202.19*	
		For Class 54 Rating, Add	*137.85*	
		For Class 55 Rating, Add	*306.40*	
40 05 19 00-1208	EA	12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,488.74	377.14
		For Class 52 Rating, Deduct	*-210.90*	
		For Class 54 Rating, Add	*143.80*	
		For Class 55 Rating, Add	*319.62*	
40 05 19 00-1209	EA	12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,571.62	379.53
		For Class 52 Rating, Deduct	*-219.62*	
		For Class 54 Rating, Add	*149.74*	
		For Class 55 Rating, Add	*332.83*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1210	EA	12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,654.49	381.92
		For Class 52 Rating, Deduct	*-228.34*	
		For Class 54 Rating, Add	*155.69*	
		For Class 55 Rating, Add	*346.04*	
40 05 19 00-1211	EA	12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,737.35	384.31
		For Class 52 Rating, Deduct	*-237.06*	
		For Class 54 Rating, Add	*161.63*	
		For Class 55 Rating, Add	*359.25*	
40 05 19 00-1212	EA	12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,820.23	386.70
		For Class 52 Rating, Deduct	*-245.78*	
		For Class 54 Rating, Add	*167.57*	
		For Class 55 Rating, Add	*372.46*	
40 05 19 00-1213	EA	12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,903.10	389.07
		For Class 52 Rating, Deduct	*-254.49*	
		For Class 54 Rating, Add	*173.52*	
		For Class 55 Rating, Add	*385.67*	
40 05 19 00-1214	EA	12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,985.97	391.47
		For Class 52 Rating, Deduct	*-263.21*	
		For Class 54 Rating, Add	*179.46*	
		For Class 55 Rating, Add	*398.89*	
40 05 19 00-1215	EA	12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,068.84	393.86
		For Class 52 Rating, Deduct	*-271.93*	
		For Class 54 Rating, Add	*185.41*	
		For Class 55 Rating, Add	*412.10*	
40 05 19 00-1216	EA	12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,151.72	396.24
		For Class 52 Rating, Deduct	*-280.65*	
		For Class 54 Rating, Add	*191.35*	
		For Class 55 Rating, Add	*425.31*	
40 05 19 00-1217	EA	12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,234.58	398.63
		For Class 52 Rating, Deduct	*-289.37*	
		For Class 54 Rating, Add	*197.30*	
		For Class 55 Rating, Add	*438.52*	
40 05 19 00-1218	EA	12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,317.46	401.02
		For Class 52 Rating, Deduct	*-298.08*	
		For Class 54 Rating, Add	*203.24*	
		For Class 55 Rating, Add	*451.73*	
40 05 19 00-1219	EA	12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,400.33	403.40
		For Class 52 Rating, Deduct	*-306.80*	
		For Class 54 Rating, Add	*209.18*	
		For Class 55 Rating, Add	*464.94*	
40 05 19 00-1220	EA	12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,483.20	405.79
		For Class 52 Rating, Deduct	*-315.52*	
		For Class 54 Rating, Add	*215.13*	
		For Class 55 Rating, Add	*478.16*	
40 05 19 00-1221	EA	12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,566.07	408.17
		For Class 52 Rating, Deduct	*-324.24*	
		For Class 54 Rating, Add	*221.07*	
		For Class 55 Rating, Add	*491.37*	
40 05 19 00-1222	EA	12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,648.95	410.56
		For Class 52 Rating, Deduct	*-332.96*	
		For Class 54 Rating, Add	*227.02*	
		For Class 55 Rating, Add	*504.58*	
40 05 19 00-1223	EA	12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,731.81	412.96
		For Class 52 Rating, Deduct	*-341.67*	
		For Class 54 Rating, Add	*232.96*	
		For Class 55 Rating, Add	*517.79*	
40 05 19 00-1224	EA	12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,814.69	415.33
		For Class 52 Rating, Deduct	*-350.39*	
		For Class 54 Rating, Add	*238.90*	
		For Class 55 Rating, Add	*531.00*	
40 05 19 00-1225	EA	12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,897.56	417.73
		For Class 52 Rating, Deduct	*-359.11*	
		For Class 54 Rating, Add	*244.85*	
		For Class 55 Rating, Add	*544.22*	
40 05 19 00-1226	EA	12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,980.42	420.12
		For Class 52 Rating, Deduct	*-367.83*	
		For Class 54 Rating, Add	*250.79*	
		For Class 55 Rating, Add	*557.43*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1227	EA	12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,063.30	422.49
		For Class 52 Rating, Deduct	*-376.55*	
		For Class 54 Rating, Add	*256.74*	
		For Class 55 Rating, Add	*570.64*	
40 05 19 00-1228	EA	12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,146.17	424.89
		For Class 52 Rating, Deduct	*-385.26*	
		For Class 54 Rating, Add	*262.68*	
		For Class 55 Rating, Add	*583.85*	

40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1230	EA	14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,307.86	401.02
		For Class 52 Rating, Deduct	*-77.03*	
		For Class 54 Rating, Add	*52.52*	
		For Class 55 Rating, Add	*116.73*	
40 05 19 00-1231	EA	14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,408.11	403.40
		For Class 52 Rating, Deduct	*-87.66*	
		For Class 54 Rating, Add	*59.77*	
		For Class 55 Rating, Add	*132.84*	
40 05 19 00-1232	EA	14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,508.34	405.79
		For Class 52 Rating, Deduct	*-98.29*	
		For Class 54 Rating, Add	*67.01*	
		For Class 55 Rating, Add	*148.95*	
40 05 19 00-1233	EA	14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,608.59	408.17
		For Class 52 Rating, Deduct	*-108.92*	
		For Class 54 Rating, Add	*74.26*	
		For Class 55 Rating, Add	*165.06*	
40 05 19 00-1234	EA	14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,708.84	410.56
		For Class 52 Rating, Deduct	*-119.54*	
		For Class 54 Rating, Add	*81.51*	
		For Class 55 Rating, Add	*181.16*	
40 05 19 00-1235	EA	14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,809.07	412.96
		For Class 52 Rating, Deduct	*-130.17*	
		For Class 54 Rating, Add	*88.75*	
		For Class 55 Rating, Add	*197.27*	
40 05 19 00-1236	EA	14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,909.32	415.33
		For Class 52 Rating, Deduct	*-140.80*	
		For Class 54 Rating, Add	*96.00*	
		For Class 55 Rating, Add	*213.38*	
40 05 19 00-1237	EA	14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,009.56	417.73
		For Class 52 Rating, Deduct	*-151.43*	
		For Class 54 Rating, Add	*103.25*	
		For Class 55 Rating, Add	*229.49*	
40 05 19 00-1238	EA	14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,109.80	420.12
		For Class 52 Rating, Deduct	*-162.06*	
		For Class 54 Rating, Add	*110.50*	
		For Class 55 Rating, Add	*245.59*	
40 05 19 00-1239	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,210.04	422.49
		For Class 52 Rating, Deduct	*-172.69*	
		For Class 54 Rating, Add	*117.74*	
		For Class 55 Rating, Add	*261.70*	
40 05 19 00-1240	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,310.29	424.89
		For Class 52 Rating, Deduct	*-183.32*	
		For Class 54 Rating, Add	*124.99*	
		For Class 55 Rating, Add	*277.81*	
40 05 19 00-1241	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,410.52	427.27
		For Class 52 Rating, Deduct	*-193.95*	
		For Class 54 Rating, Add	*132.24*	
		For Class 55 Rating, Add	*293.92*	
40 05 19 00-1242	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,510.77	429.66
		For Class 52 Rating, Deduct	*-204.57*	
		For Class 54 Rating, Add	*139.48*	
		For Class 55 Rating, Add	*310.02*	
40 05 19 00-1243	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,611.02	432.05
		For Class 52 Rating, Deduct	*-215.20*	
		For Class 54 Rating, Add	*146.73*	
		For Class 55 Rating, Add	*326.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1244	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,711.25	434.43
		For Class 52 Rating, Deduct	*-225.83*	
		For Class 54 Rating, Add	*153.98*	
		For Class 55 Rating, Add	*342.24*	
40 05 19 00-1245	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,811.50	436.82
		For Class 52 Rating, Deduct	*-236.46*	
		For Class 54 Rating, Add	*161.22*	
		For Class 55 Rating, Add	*358.35*	
40 05 19 00-1246	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,911.74	439.21
		For Class 52 Rating, Deduct	*-247.09*	
		For Class 54 Rating, Add	*168.47*	
		For Class 55 Rating, Add	*374.45*	
40 05 19 00-1247	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,011.98	441.59
		For Class 52 Rating, Deduct	*-257.72*	
		For Class 54 Rating, Add	*175.72*	
		For Class 55 Rating, Add	*390.56*	
40 05 19 00-1248	EA	14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,112.22	443.98
		For Class 52 Rating, Deduct	*-268.35*	
		For Class 54 Rating, Add	*182.96*	
		For Class 55 Rating, Add	*406.67*	
40 05 19 00-1249	EA	14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,212.47	446.37
		For Class 52 Rating, Deduct	*-278.98*	
		For Class 54 Rating, Add	*190.21*	
		For Class 55 Rating, Add	*422.78*	
40 05 19 00-1250	EA	14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,312.70	448.75
		For Class 52 Rating, Deduct	*-289.60*	
		For Class 54 Rating, Add	*197.46*	
		For Class 55 Rating, Add	*438.88*	
40 05 19 00-1251	EA	14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,412.95	451.15
		For Class 52 Rating, Deduct	*-300.23*	
		For Class 54 Rating, Add	*204.71*	
		For Class 55 Rating, Add	*454.99*	
40 05 19 00-1252	EA	14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,513.19	453.53
		For Class 52 Rating, Deduct	*-310.86*	
		For Class 54 Rating, Add	*211.95*	
		For Class 55 Rating, Add	*471.10*	
40 05 19 00-1253	EA	14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,613.43	455.92
		For Class 52 Rating, Deduct	*-321.49*	
		For Class 54 Rating, Add	*219.20*	
		For Class 55 Rating, Add	*487.21*	
40 05 19 00-1254	EA	14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,713.68	458.31
		For Class 52 Rating, Deduct	*-332.12*	
		For Class 54 Rating, Add	*226.45*	
		For Class 55 Rating, Add	*503.31*	
40 05 19 00-1255	EA	14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,813.92	460.69
		For Class 52 Rating, Deduct	*-342.75*	
		For Class 54 Rating, Add	*233.69*	
		For Class 55 Rating, Add	*519.42*	
40 05 19 00-1256	EA	14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,914.16	463.08
		For Class 52 Rating, Deduct	*-353.38*	
		For Class 54 Rating, Add	*240.94*	
		For Class 55 Rating, Add	*535.53*	
40 05 19 00-1257	EA	14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,014.40	465.46
		For Class 52 Rating, Deduct	*-364.01*	
		For Class 54 Rating, Add	*248.19*	
		For Class 55 Rating, Add	*551.64*	
40 05 19 00-1258	EA	14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,114.65	467.85
		For Class 52 Rating, Deduct	*-374.64*	
		For Class 54 Rating, Add	*255.43*	
		For Class 55 Rating, Add	*567.74*	
40 05 19 00-1259	EA	14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,214.88	470.24
		For Class 52 Rating, Deduct	*-385.26*	
		For Class 54 Rating, Add	*262.68*	
		For Class 55 Rating, Add	*583.85*	
40 05 19 00-1260	EA	14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,315.13	472.63
		For Class 52 Rating, Deduct	*-395.89*	
		For Class 54 Rating, Add	*269.93*	
		For Class 55 Rating, Add	*599.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1261	EA	14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,415.37	475.01
		For Class 52 Rating, Deduct	*-406.52*	
		For Class 54 Rating, Add	*277.17*	
		For Class 55 Rating, Add	*616.06*	
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,515.61	477.40
		For Class 52 Rating, Deduct	*-417.15*	
		For Class 54 Rating, Add	*284.42*	
		For Class 55 Rating, Add	*632.17*	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,615.86	479.79
		For Class 52 Rating, Deduct	*-427.78*	
		For Class 54 Rating, Add	*291.67*	
		For Class 55 Rating, Add	*648.28*	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,716.10	482.17
		For Class 52 Rating, Deduct	*-438.41*	
		For Class 54 Rating, Add	*298.91*	
		For Class 55 Rating, Add	*664.39*	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,816.34	484.56
		For Class 52 Rating, Deduct	*-449.04*	
		For Class 54 Rating, Add	*306.16*	
		For Class 55 Rating, Add	*680.50*	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,916.58	486.95
		For Class 52 Rating, Deduct	*-459.67*	
		For Class 54 Rating, Add	*313.41*	
		For Class 55 Rating, Add	*696.60*	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,016.83	489.34
		For Class 52 Rating, Deduct	*-470.30*	
		For Class 54 Rating, Add	*320.66*	
		For Class 55 Rating, Add	*712.71*	

40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,522.77	458.31
		For Class 52 Rating, Deduct	*-91.12*	
		For Class 54 Rating, Add	*62.13*	
		For Class 55 Rating, Add	*138.09*	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,639.30	460.69
		For Class 52 Rating, Deduct	*-103.54*	
		For Class 54 Rating, Add	*70.60*	
		For Class 55 Rating, Add	*156.91*	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,755.83	463.08
		For Class 52 Rating, Deduct	*-115.96*	
		For Class 54 Rating, Add	*79.07*	
		For Class 55 Rating, Add	*175.74*	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,872.36	465.46
		For Class 52 Rating, Deduct	*-128.38*	
		For Class 54 Rating, Add	*87.53*	
		For Class 55 Rating, Add	*194.56*	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,988.89	467.85
		For Class 52 Rating, Deduct	*-140.80*	
		For Class 54 Rating, Add	*96.00*	
		For Class 55 Rating, Add	*213.38*	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,105.41	470.24
		For Class 52 Rating, Deduct	*-153.22*	
		For Class 54 Rating, Add	*104.47*	
		For Class 55 Rating, Add	*232.20*	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,221.94	472.63
		For Class 52 Rating, Deduct	*-165.64*	
		For Class 54 Rating, Add	*112.94*	
		For Class 55 Rating, Add	*251.02*	
40 05 19 00-1276	EA	16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,338.47	475.01
		For Class 52 Rating, Deduct	*-178.06*	
		For Class 54 Rating, Add	*121.41*	
		For Class 55 Rating, Add	*269.85*	
40 05 19 00-1277	EA	16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,454.99	477.40
		For Class 52 Rating, Deduct	*-190.48*	
		For Class 54 Rating, Add	*129.87*	
		For Class 55 Rating, Add	*288.67*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1278	EA	16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,571.52	479.79
		For Class 52 Rating, Deduct	*-202.90*	
		For Class 54 Rating, Add	*138.34*	
		For Class 55 Rating, Add	*307.49*	
40 05 19 00-1279	EA	16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,688.05	482.17
		For Class 52 Rating, Deduct	*-215.32*	
		For Class 54 Rating, Add	*146.81*	
		For Class 55 Rating, Add	*326.31*	
40 05 19 00-1280	EA	16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,804.57	484.56
		For Class 52 Rating, Deduct	*-227.74*	
		For Class 54 Rating, Add	*155.28*	
		For Class 55 Rating, Add	*345.13*	
40 05 19 00-1281	EA	16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,921.10	486.95
		For Class 52 Rating, Deduct	*-240.16*	
		For Class 54 Rating, Add	*163.75*	
		For Class 55 Rating, Add	*363.96*	
40 05 19 00-1282	EA	16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,037.63	489.34
		For Class 52 Rating, Deduct	*-252.58*	
		For Class 54 Rating, Add	*172.22*	
		For Class 55 Rating, Add	*382.78*	
40 05 19 00-1283	EA	16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,154.16	491.72
		For Class 52 Rating, Deduct	*-265.00*	
		For Class 54 Rating, Add	*180.68*	
		For Class 55 Rating, Add	*401.60*	
40 05 19 00-1284	EA	16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,270.68	494.11
		For Class 52 Rating, Deduct	*-277.42*	
		For Class 54 Rating, Add	*189.15*	
		For Class 55 Rating, Add	*420.42*	
40 05 19 00-1285	EA	16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,387.22	496.50
		For Class 52 Rating, Deduct	*-289.84*	
		For Class 54 Rating, Add	*197.62*	
		For Class 55 Rating, Add	*439.25*	
40 05 19 00-1286	EA	16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,503.75	498.88
		For Class 52 Rating, Deduct	*-302.26*	
		For Class 54 Rating, Add	*206.09*	
		For Class 55 Rating, Add	*458.07*	
40 05 19 00-1287	EA	16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,620.27	501.27
		For Class 52 Rating, Deduct	*-314.68*	
		For Class 54 Rating, Add	*214.56*	
		For Class 55 Rating, Add	*476.89*	
40 05 19 00-1288	EA	16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,736.79	503.65
		For Class 52 Rating, Deduct	*-327.10*	
		For Class 54 Rating, Add	*223.03*	
		For Class 55 Rating, Add	*495.71*	
40 05 19 00-1289	EA	16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,853.33	506.05
		For Class 52 Rating, Deduct	*-339.52*	
		For Class 54 Rating, Add	*231.49*	
		For Class 55 Rating, Add	*514.53*	
40 05 19 00-1290	EA	16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,969.85	508.43
		For Class 52 Rating, Deduct	*-351.95*	
		For Class 54 Rating, Add	*239.96*	
		For Class 55 Rating, Add	*533.36*	
40 05 19 00-1291	EA	16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,086.37	510.81
		For Class 52 Rating, Deduct	*-364.37*	
		For Class 54 Rating, Add	*248.43*	
		For Class 55 Rating, Add	*552.18*	
40 05 19 00-1292	EA	16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,202.91	513.21
		For Class 52 Rating, Deduct	*-376.79*	
		For Class 54 Rating, Add	*256.90*	
		For Class 55 Rating, Add	*571.00*	
40 05 19 00-1293	EA	16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,319.43	515.60
		For Class 52 Rating, Deduct	*-389.21*	
		For Class 54 Rating, Add	*265.37*	
		For Class 55 Rating, Add	*589.82*	
40 05 19 00-1294	EA	16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,435.95	517.98
		For Class 52 Rating, Deduct	*-401.63*	
		For Class 54 Rating, Add	*273.84*	
		For Class 55 Rating, Add	*608.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1295	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,552.49	520.37
		For Class 52 Rating, Deduct	*-414.05*	
		For Class 54 Rating, Add	*282.30*	
		For Class 55 Rating, Add	*627.47*	
40 05 19 00-1296	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,669.01	522.75
		For Class 52 Rating, Deduct	*-426.47*	
		For Class 54 Rating, Add	*290.77*	
		For Class 55 Rating, Add	*646.29*	
40 05 19 00-1297	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,785.53	525.14
		For Class 52 Rating, Deduct	*-438.89*	
		For Class 54 Rating, Add	*299.24*	
		For Class 55 Rating, Add	*665.11*	
40 05 19 00-1298	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,902.07	527.53
		For Class 52 Rating, Deduct	*-451.31*	
		For Class 54 Rating, Add	*307.71*	
		For Class 55 Rating, Add	*683.93*	
40 05 19 00-1299	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,018.60	529.91
		For Class 52 Rating, Deduct	*-463.73*	
		For Class 54 Rating, Add	*316.18*	
		For Class 55 Rating, Add	*702.76*	
40 05 19 00-1300	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,135.12	532.31
		For Class 52 Rating, Deduct	*-476.15*	
		For Class 54 Rating, Add	*324.65*	
		For Class 55 Rating, Add	*721.58*	
40 05 19 00-1301	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,251.66	534.68
		For Class 52 Rating, Deduct	*-488.57*	
		For Class 54 Rating, Add	*333.11*	
		For Class 55 Rating, Add	*740.40*	
40 05 19 00-1302	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,368.18	537.07
		For Class 52 Rating, Deduct	*-500.99*	
		For Class 54 Rating, Add	*341.58*	
		For Class 55 Rating, Add	*759.22*	
40 05 19 00-1303	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,484.70	539.47
		For Class 52 Rating, Deduct	*-513.41*	
		For Class 54 Rating, Add	*350.05*	
		For Class 55 Rating, Add	*778.05*	
40 05 19 00-1304	EA	16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,601.24	541.84
		For Class 52 Rating, Deduct	*-525.83*	
		For Class 54 Rating, Add	*358.52*	
		For Class 55 Rating, Add	*796.87*	
40 05 19 00-1305	EA	16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,717.76	544.23
		For Class 52 Rating, Deduct	*-538.25*	
		For Class 54 Rating, Add	*366.99*	
		For Class 55 Rating, Add	*815.69*	
40 05 19 00-1306	EA	16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,834.28	546.63
		For Class 52 Rating, Deduct	*-550.67*	
		For Class 54 Rating, Add	*375.46*	
		For Class 55 Rating, Add	*834.51*	

40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1308	EA	18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,754.33	516.55
		For Class 52 Rating, Deduct	*-106.88*	
		For Class 54 Rating, Add	*72.88*	
		For Class 55 Rating, Add	*161.98*	
40 05 19 00-1309	EA	18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,888.23	518.94
		For Class 52 Rating, Deduct	*-121.22*	
		For Class 54 Rating, Add	*82.65*	
		For Class 55 Rating, Add	*183.70*	
40 05 19 00-1310	EA	18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,022.14	521.31
		For Class 52 Rating, Deduct	*-135.55*	
		For Class 54 Rating, Add	*92.42*	
		For Class 55 Rating, Add	*205.42*	
40 05 19 00-1311	EA	18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,156.03	523.71
		For Class 52 Rating, Deduct	*-149.88*	
		For Class 54 Rating, Add	*102.19*	
		For Class 55 Rating, Add	*227.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1312	EA	18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,289.92	526.10
		For Class 52 Rating, Deduct	*-164.21*	
		For Class 54 Rating, Add	*111.96*	
		For Class 55 Rating, Add	*248.85*	
40 05 19 00-1313	EA	18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,423.83	528.48
		For Class 52 Rating, Deduct	*-178.54*	
		For Class 54 Rating, Add	*121.73*	
		For Class 55 Rating, Add	*270.57*	
40 05 19 00-1314	EA	18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,557.72	530.87
		For Class 52 Rating, Deduct	*-192.87*	
		For Class 54 Rating, Add	*131.50*	
		For Class 55 Rating, Add	*292.29*	
40 05 19 00-1315	EA	18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,691.61	533.26
		For Class 52 Rating, Deduct	*-207.20*	
		For Class 54 Rating, Add	*141.27*	
		For Class 55 Rating, Add	*314.00*	
40 05 19 00-1316	EA	18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,825.52	535.65
		For Class 52 Rating, Deduct	*-221.53*	
		For Class 54 Rating, Add	*151.05*	
		For Class 55 Rating, Add	*335.72*	
40 05 19 00-1317	EA	18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,959.42	538.03
		For Class 52 Rating, Deduct	*-235.86*	
		For Class 54 Rating, Add	*160.82*	
		For Class 55 Rating, Add	*357.44*	
40 05 19 00-1318	EA	18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,093.31	540.41
		For Class 52 Rating, Deduct	*-250.20*	
		For Class 54 Rating, Add	*170.59*	
		For Class 55 Rating, Add	*379.16*	
40 05 19 00-1319	EA	18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,227.21	542.81
		For Class 52 Rating, Deduct	*-264.53*	
		For Class 54 Rating, Add	*180.36*	
		For Class 55 Rating, Add	*400.88*	
40 05 19 00-1320	EA	18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,361.11	545.19
		For Class 52 Rating, Deduct	*-278.86*	
		For Class 54 Rating, Add	*190.13*	
		For Class 55 Rating, Add	*422.59*	
40 05 19 00-1321	EA	18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,495.00	547.57
		For Class 52 Rating, Deduct	*-293.19*	
		For Class 54 Rating, Add	*199.90*	
		For Class 55 Rating, Add	*444.31*	
40 05 19 00-1322	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,628.91	549.97
		For Class 52 Rating, Deduct	*-307.52*	
		For Class 54 Rating, Add	*209.67*	
		For Class 55 Rating, Add	*466.03*	
40 05 19 00-1323	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,762.81	552.36
		For Class 52 Rating, Deduct	*-321.85*	
		For Class 54 Rating, Add	*219.44*	
		For Class 55 Rating, Add	*487.75*	
40 05 19 00-1324	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,896.70	554.73
		For Class 52 Rating, Deduct	*-336.18*	
		For Class 54 Rating, Add	*229.21*	
		For Class 55 Rating, Add	*509.47*	
40 05 19 00-1325	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,030.60	557.13
		For Class 52 Rating, Deduct	*-350.51*	
		For Class 54 Rating, Add	*238.99*	
		For Class 55 Rating, Add	*531.18*	
40 05 19 00-1326	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,164.50	559.51
		For Class 52 Rating, Deduct	*-364.84*	
		For Class 54 Rating, Add	*248.76*	
		For Class 55 Rating, Add	*552.90*	
40 05 19 00-1327	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,298.39	561.90
		For Class 52 Rating, Deduct	*-379.17*	
		For Class 54 Rating, Add	*258.53*	
		For Class 55 Rating, Add	*574.62*	
40 05 19 00-1328	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,432.30	564.29
		For Class 52 Rating, Deduct	*-393.51*	
		For Class 54 Rating, Add	*268.30*	
		For Class 55 Rating, Add	*596.34*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1329	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,566.20	566.67
		For Class 52 Rating, Deduct	*-407.84*	
		For Class 54 Rating, Add	*278.07*	
		For Class 55 Rating, Add	*618.06*	
40 05 19 00-1330	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,700.09	569.07
		For Class 52 Rating, Deduct	*-422.17*	
		For Class 54 Rating, Add	*287.84*	
		For Class 55 Rating, Add	*639.77*	
40 05 19 00-1331	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,833.99	571.44
		For Class 52 Rating, Deduct	*-436.50*	
		For Class 54 Rating, Add	*297.61*	
		For Class 55 Rating, Add	*661.49*	
40 05 19 00-1332	EA	18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,967.89	573.83
		For Class 52 Rating, Deduct	*-450.83*	
		For Class 54 Rating, Add	*307.38*	
		For Class 55 Rating, Add	*683.21*	
40 05 19 00-1333	EA	18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,101.78	576.23
		For Class 52 Rating, Deduct	*-465.16*	
		For Class 54 Rating, Add	*317.15*	
		For Class 55 Rating, Add	*704.93*	
40 05 19 00-1334	EA	18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,235.69	578.61
		For Class 52 Rating, Deduct	*-479.49*	
		For Class 54 Rating, Add	*326.93*	
		For Class 55 Rating, Add	*726.65*	
40 05 19 00-1335	EA	18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,369.59	580.99
		For Class 52 Rating, Deduct	*-493.82*	
		For Class 54 Rating, Add	*336.70*	
		For Class 55 Rating, Add	*748.36*	
40 05 19 00-1336	EA	18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,503.48	583.39
		For Class 52 Rating, Deduct	*-508.15*	
		For Class 54 Rating, Add	*346.47*	
		For Class 55 Rating, Add	*770.08*	
40 05 19 00-1337	EA	18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,637.38	585.77
		For Class 52 Rating, Deduct	*-522.48*	
		For Class 54 Rating, Add	*356.24*	
		For Class 55 Rating, Add	*791.80*	
40 05 19 00-1338	EA	18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,771.28	588.15
		For Class 52 Rating, Deduct	*-536.81*	
		For Class 54 Rating, Add	*366.01*	
		For Class 55 Rating, Add	*813.52*	
40 05 19 00-1339	EA	18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,905.18	590.54
		For Class 52 Rating, Deduct	*-551.15*	
		For Class 54 Rating, Add	*375.78*	
		For Class 55 Rating, Add	*835.24*	
40 05 19 00-1340	EA	18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,039.07	592.93
		For Class 52 Rating, Deduct	*-565.48*	
		For Class 54 Rating, Add	*385.55*	
		For Class 55 Rating, Add	*856.95*	
40 05 19 00-1341	EA	18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,172.98	595.33
		For Class 52 Rating, Deduct	*-579.81*	
		For Class 54 Rating, Add	*395.32*	
		For Class 55 Rating, Add	*878.67*	
40 05 19 00-1342	EA	18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,306.88	597.70
		For Class 52 Rating, Deduct	*-594.14*	
		For Class 54 Rating, Add	*405.09*	
		For Class 55 Rating, Add	*900.39*	
40 05 19 00-1343	EA	18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,440.77	600.09
		For Class 52 Rating, Deduct	*-608.47*	
		For Class 54 Rating, Add	*414.87*	
		For Class 55 Rating, Add	*922.11*	
40 05 19 00-1344	EA	18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,574.67	602.49
		For Class 52 Rating, Deduct	*-622.80*	
		For Class 54 Rating, Add	*424.64*	
		For Class 55 Rating, Add	*943.83*	
40 05 19 00-1345	EA	18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,708.57	604.86
		For Class 52 Rating, Deduct	*-637.13*	
		For Class 54 Rating, Add	*434.41*	
		For Class 55 Rating, Add	*965.54*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346		20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*		
40 05 19 00-1347	EA	20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,037.62	589.59
		For Class 52 Rating, Deduct	*-125.87*	
		For Class 54 Rating, Add	*85.82*	
		For Class 55 Rating, Add	*190.76*	
40 05 19 00-1348	EA	20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,191.07	591.98
		For Class 52 Rating, Deduct	*-142.35*	
		For Class 54 Rating, Add	*97.06*	
		For Class 55 Rating, Add	*215.73*	
40 05 19 00-1349	EA	20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,344.50	594.36
		For Class 52 Rating, Deduct	*-158.83*	
		For Class 54 Rating, Add	*108.30*	
		For Class 55 Rating, Add	*240.71*	
40 05 19 00-1350	EA	20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,497.94	596.75
		For Class 52 Rating, Deduct	*-175.32*	
		For Class 54 Rating, Add	*119.53*	
		For Class 55 Rating, Add	*265.68*	
40 05 19 00-1351	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,651.39	599.14
		For Class 52 Rating, Deduct	*-191.80*	
		For Class 54 Rating, Add	*130.77*	
		For Class 55 Rating, Add	*290.66*	
40 05 19 00-1352	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,804.83	601.52
		For Class 52 Rating, Deduct	*-208.28*	
		For Class 54 Rating, Add	*142.01*	
		For Class 55 Rating, Add	*315.63*	
40 05 19 00-1353	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,958.26	603.91
		For Class 52 Rating, Deduct	*-224.76*	
		For Class 54 Rating, Add	*153.24*	
		For Class 55 Rating, Add	*340.61*	
40 05 19 00-1354	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,111.71	606.30
		For Class 52 Rating, Deduct	*-241.24*	
		For Class 54 Rating, Add	*164.48*	
		For Class 55 Rating, Add	*365.58*	
40 05 19 00-1355	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,265.15	608.69
		For Class 52 Rating, Deduct	*-257.72*	
		For Class 54 Rating, Add	*175.72*	
		For Class 55 Rating, Add	*390.56*	
40 05 19 00-1356	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,418.58	611.07
		For Class 52 Rating, Deduct	*-274.20*	
		For Class 54 Rating, Add	*186.95*	
		For Class 55 Rating, Add	*415.54*	
40 05 19 00-1357	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,572.04	613.46
		For Class 52 Rating, Deduct	*-290.68*	
		For Class 54 Rating, Add	*198.19*	
		For Class 55 Rating, Add	*440.51*	
40 05 19 00-1358	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,725.47	615.85
		For Class 52 Rating, Deduct	*-307.16*	
		For Class 54 Rating, Add	*209.43*	
		For Class 55 Rating, Add	*465.49*	
40 05 19 00-1359	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,878.90	618.23
		For Class 52 Rating, Deduct	*-323.64*	
		For Class 54 Rating, Add	*220.66*	
		For Class 55 Rating, Add	*490.46*	
40 05 19 00-1360	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,032.36	620.62
		For Class 52 Rating, Deduct	*-340.12*	
		For Class 54 Rating, Add	*231.90*	
		For Class 55 Rating, Add	*515.44*	
40 05 19 00-1361	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,185.79	623.01
		For Class 52 Rating, Deduct	*-356.60*	
		For Class 54 Rating, Add	*243.14*	
		For Class 55 Rating, Add	*540.41*	
40 05 19 00-1362	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,339.22	625.40
		For Class 52 Rating, Deduct	*-373.08*	
		For Class 54 Rating, Add	*254.37*	
		For Class 55 Rating, Add	*565.39*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1363	EA	20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,492.68	627.78
		For Class 52 Rating, Deduct	*-389.56*	
		For Class 54 Rating, Add	*265.61*	
		For Class 55 Rating, Add	*590.37*	
40 05 19 00-1364	EA	20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,646.11	630.16
		For Class 52 Rating, Deduct	*-406.04*	
		For Class 54 Rating, Add	*276.85*	
		For Class 55 Rating, Add	*615.34*	
40 05 19 00-1365	EA	20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,799.55	632.56
		For Class 52 Rating, Deduct	*-422.53*	
		For Class 54 Rating, Add	*288.09*	
		For Class 55 Rating, Add	*640.32*	
40 05 19 00-1366	EA	20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,953.00	634.95
		For Class 52 Rating, Deduct	*-439.01*	
		For Class 54 Rating, Add	*299.32*	
		For Class 55 Rating, Add	*665.29*	
40 05 19 00-1367	EA	20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,106.43	637.32
		For Class 52 Rating, Deduct	*-455.49*	
		For Class 54 Rating, Add	*310.56*	
		For Class 55 Rating, Add	*690.27*	
40 05 19 00-1368	EA	20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,259.87	639.72
		For Class 52 Rating, Deduct	*-471.97*	
		For Class 54 Rating, Add	*321.80*	
		For Class 55 Rating, Add	*715.24*	
40 05 19 00-1369	EA	20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,413.32	642.11
		For Class 52 Rating, Deduct	*-488.45*	
		For Class 54 Rating, Add	*333.03*	
		For Class 55 Rating, Add	*740.22*	
40 05 19 00-1370	EA	20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,566.76	644.49
		For Class 52 Rating, Deduct	*-504.93*	
		For Class 54 Rating, Add	*344.27*	
		For Class 55 Rating, Add	*765.20*	
40 05 19 00-1371	EA	20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,720.19	646.88
		For Class 52 Rating, Deduct	*-521.41*	
		For Class 54 Rating, Add	*355.51*	
		For Class 55 Rating, Add	*790.17*	
40 05 19 00-1372	EA	20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,873.64	649.26
		For Class 52 Rating, Deduct	*-537.89*	
		For Class 54 Rating, Add	*366.74*	
		For Class 55 Rating, Add	*815.15*	
40 05 19 00-1373	EA	20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,027.08	651.66
		For Class 52 Rating, Deduct	*-554.37*	
		For Class 54 Rating, Add	*377.98*	
		For Class 55 Rating, Add	*840.12*	
40 05 19 00-1374	EA	20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,180.51	654.04
		For Class 52 Rating, Deduct	*-570.85*	
		For Class 54 Rating, Add	*389.22*	
		For Class 55 Rating, Add	*865.10*	
40 05 19 00-1375	EA	20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,333.96	656.42
		For Class 52 Rating, Deduct	*-587.33*	
		For Class 54 Rating, Add	*400.45*	
		For Class 55 Rating, Add	*890.07*	
40 05 19 00-1376	EA	20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,487.40	658.82
		For Class 52 Rating, Deduct	*-603.81*	
		For Class 54 Rating, Add	*411.69*	
		For Class 55 Rating, Add	*915.05*	
40 05 19 00-1377	EA	20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,640.83	661.19
		For Class 52 Rating, Deduct	*-620.29*	
		For Class 54 Rating, Add	*422.93*	
		For Class 55 Rating, Add	*940.02*	
40 05 19 00-1378	EA	20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,794.29	663.58
		For Class 52 Rating, Deduct	*-636.77*	
		For Class 54 Rating, Add	*434.16*	
		For Class 55 Rating, Add	*965.00*	
40 05 19 00-1379	EA	20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,947.72	665.98
		For Class 52 Rating, Deduct	*-653.25*	
		For Class 54 Rating, Add	*445.40*	
		For Class 55 Rating, Add	*989.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1380	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,101.15	668.36
		For Class 52 Rating, Deduct	*-669.73*	
		For Class 54 Rating, Add	*456.64*	
		For Class 55 Rating, Add	*1,014.95*	
40 05 19 00-1381	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,254.61	670.74
		For Class 52 Rating, Deduct	*-686.22*	
		For Class 54 Rating, Add	*467.87*	
		For Class 55 Rating, Add	*1,039.93*	
40 05 19 00-1382	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,408.04	673.14
		For Class 52 Rating, Deduct	*-702.70*	
		For Class 54 Rating, Add	*479.11*	
		For Class 55 Rating, Add	*1,064.90*	
40 05 19 00-1383	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,561.47	675.52
		For Class 52 Rating, Deduct	*-719.18*	
		For Class 54 Rating, Add	*490.35*	
		For Class 55 Rating, Add	*1,089.88*	
40 05 19 00-1384	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,714.93	677.91
		For Class 52 Rating, Deduct	*-735.66*	
		For Class 54 Rating, Add	*501.58*	
		For Class 55 Rating, Add	*1,114.85*	

40 05 19 00-1385 24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1386	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,484.82	697.00
		For Class 52 Rating, Deduct	*-157.16*	
		For Class 54 Rating, Add	*107.16*	
		For Class 55 Rating, Add	*238.17*	
40 05 19 00-1387	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,674.10	699.39
		For Class 52 Rating, Deduct	*-177.59*	
		For Class 54 Rating, Add	*121.08*	
		For Class 55 Rating, Add	*269.12*	
40 05 19 00-1388	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,863.36	701.78
		For Class 52 Rating, Deduct	*-198.01*	
		For Class 54 Rating, Add	*135.00*	
		For Class 55 Rating, Add	*300.07*	
40 05 19 00-1389	EA	24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,052.63	704.16
		For Class 52 Rating, Deduct	*-218.43*	
		For Class 54 Rating, Add	*148.93*	
		For Class 55 Rating, Add	*331.02*	
40 05 19 00-1390	EA	24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,241.90	706.55
		For Class 52 Rating, Deduct	*-238.85*	
		For Class 54 Rating, Add	*162.85*	
		For Class 55 Rating, Add	*361.97*	
40 05 19 00-1391	EA	24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,431.16	708.94
		For Class 52 Rating, Deduct	*-259.27*	
		For Class 54 Rating, Add	*176.78*	
		For Class 55 Rating, Add	*392.91*	
40 05 19 00-1392	EA	24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,620.43	711.33
		For Class 52 Rating, Deduct	*-279.69*	
		For Class 54 Rating, Add	*190.70*	
		For Class 55 Rating, Add	*423.86*	
40 05 19 00-1393	EA	24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,809.69	713.71
		For Class 52 Rating, Deduct	*-300.11*	
		For Class 54 Rating, Add	*204.62*	
		For Class 55 Rating, Add	*454.81*	
40 05 19 00-1394	EA	24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,998.97	716.10
		For Class 52 Rating, Deduct	*-320.54*	
		For Class 54 Rating, Add	*218.55*	
		For Class 55 Rating, Add	*485.76*	
40 05 19 00-1395	EA	24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,188.24	718.49
		For Class 52 Rating, Deduct	*-340.96*	
		For Class 54 Rating, Add	*232.47*	
		For Class 55 Rating, Add	*516.71*	
40 05 19 00-1396	EA	24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,377.50	720.87
		For Class 52 Rating, Deduct	*-361.38*	
		For Class 54 Rating, Add	*246.40*	
		For Class 55 Rating, Add	*547.65*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1397	EA	24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,566.77	723.26
		For Class 52 Rating, Deduct	*-381.80*	
		For Class 54 Rating, Add	*260.32*	
		For Class 55 Rating, Add	*578.60*	
40 05 19 00-1398	EA	24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,756.04	725.65
		For Class 52 Rating, Deduct	*-402.22*	
		For Class 54 Rating, Add	*274.24*	
		For Class 55 Rating, Add	*609.55*	
40 05 19 00-1399	EA	24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,945.30	728.04
		For Class 52 Rating, Deduct	*-422.64*	
		For Class 54 Rating, Add	*288.17*	
		For Class 55 Rating, Add	*640.50*	
40 05 19 00-1400	EA	24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,134.57	730.42
		For Class 52 Rating, Deduct	*-443.07*	
		For Class 54 Rating, Add	*302.09*	
		For Class 55 Rating, Add	*671.45*	
40 05 19 00-1401	EA	24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,323.84	732.81
		For Class 52 Rating, Deduct	*-463.49*	
		For Class 54 Rating, Add	*316.01*	
		For Class 55 Rating, Add	*702.39*	
40 05 19 00-1402	EA	24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,513.11	735.20
		For Class 52 Rating, Deduct	*-483.91*	
		For Class 54 Rating, Add	*329.94*	
		For Class 55 Rating, Add	*733.34*	
40 05 19 00-1403	EA	24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,702.38	737.57
		For Class 52 Rating, Deduct	*-504.33*	
		For Class 54 Rating, Add	*343.86*	
		For Class 55 Rating, Add	*764.29*	
40 05 19 00-1404	EA	24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,891.65	739.97
		For Class 52 Rating, Deduct	*-524.75*	
		For Class 54 Rating, Add	*357.79*	
		For Class 55 Rating, Add	*795.24*	
40 05 19 00-1405	EA	24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,080.91	742.36
		For Class 52 Rating, Deduct	*-545.17*	
		For Class 54 Rating, Add	*371.71*	
		For Class 55 Rating, Add	*826.19*	
40 05 19 00-1406	EA	24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,270.18	744.74
		For Class 52 Rating, Deduct	*-565.60*	
		For Class 54 Rating, Add	*385.63*	
		For Class 55 Rating, Add	*857.13*	
40 05 19 00-1407	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,459.45	747.13
		For Class 52 Rating, Deduct	*-586.02*	
		For Class 54 Rating, Add	*399.56*	
		For Class 55 Rating, Add	*888.08*	
40 05 19 00-1408	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,648.71	749.52
		For Class 52 Rating, Deduct	*-606.44*	
		For Class 54 Rating, Add	*413.48*	
		For Class 55 Rating, Add	*919.03*	
40 05 19 00-1409	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,837.98	751.91
		For Class 52 Rating, Deduct	*-626.86*	
		For Class 54 Rating, Add	*427.40*	
		For Class 55 Rating, Add	*949.98*	
40 05 19 00-1410	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,027.26	754.30
		For Class 52 Rating, Deduct	*-647.28*	
		For Class 54 Rating, Add	*441.33*	
		For Class 55 Rating, Add	*980.93*	
40 05 19 00-1411	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,216.52	756.67
		For Class 52 Rating, Deduct	*-667.70*	
		For Class 54 Rating, Add	*455.25*	
		For Class 55 Rating, Add	*1,011.88*	
40 05 19 00-1412	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,405.79	759.07
		For Class 52 Rating, Deduct	*-688.13*	
		For Class 54 Rating, Add	*469.18*	
		For Class 55 Rating, Add	*1,042.82*	
40 05 19 00-1413	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,595.06	761.46
		For Class 52 Rating, Deduct	*-708.55*	
		For Class 54 Rating, Add	*483.10*	
		For Class 55 Rating, Add	*1,073.77*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1414	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,784.32	763.83
		For Class 52 Rating, Deduct	*-728.97*	
		For Class 54 Rating, Add	*497.02*	
		For Class 55 Rating, Add	*1,104.72*	
40 05 19 00-1415	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,035.07	806.80
		For Class 52 Rating, Deduct	*-749.39*	
		For Class 54 Rating, Add	*510.95*	
		For Class 55 Rating, Add	*1,135.67*	
40 05 19 00-1416	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,224.34	809.19
		For Class 52 Rating, Deduct	*-769.81*	
		For Class 54 Rating, Add	*524.87*	
		For Class 55 Rating, Add	*1,166.61*	
40 05 19 00-1417	EA	24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,413.61	811.58
		For Class 52 Rating, Deduct	*-790.23*	
		For Class 54 Rating, Add	*538.80*	
		For Class 55 Rating, Add	*1,197.56*	
40 05 19 00-1418	EA	24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,602.88	813.97
		For Class 52 Rating, Deduct	*-810.66*	
		For Class 54 Rating, Add	*552.72*	
		For Class 55 Rating, Add	*1,228.51*	
40 05 19 00-1419	EA	24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,792.15	816.35
		For Class 52 Rating, Deduct	*-831.08*	
		For Class 54 Rating, Add	*566.64*	
		For Class 55 Rating, Add	*1,259.46*	
40 05 19 00-1420	EA	24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,981.42	818.75
		For Class 52 Rating, Deduct	*-851.50*	
		For Class 54 Rating, Add	*580.57*	
		For Class 55 Rating, Add	*1,290.41*	
40 05 19 00-1421	EA	24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,170.68	821.13
		For Class 52 Rating, Deduct	*-871.92*	
		For Class 54 Rating, Add	*594.49*	
		For Class 55 Rating, Add	*1,321.36*	
40 05 19 00-1422	EA	24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,359.95	823.51
		For Class 52 Rating, Deduct	*-892.34*	
		For Class 54 Rating, Add	*608.42*	
		For Class 55 Rating, Add	*1,352.30*	
40 05 19 00-1423	EA	24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,549.22	825.90
		For Class 52 Rating, Deduct	*-912.76*	
		For Class 54 Rating, Add	*622.34*	
		For Class 55 Rating, Add	*1,383.25*	

40 05 19 00-1424 30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1425	EA	30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,748.28	983.45
		For Class 52 Rating, Deduct	*-248.40*	
		For Class 54 Rating, Add	*169.37*	
		For Class 55 Rating, Add	*376.44*	
40 05 19 00-1426	EA	30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,020.06	985.83
		For Class 52 Rating, Deduct	*-277.90*	
		For Class 54 Rating, Add	*189.48*	
		For Class 55 Rating, Add	*421.15*	
40 05 19 00-1427	EA	30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,291.84	988.22
		For Class 52 Rating, Deduct	*-307.40*	
		For Class 54 Rating, Add	*209.59*	
		For Class 55 Rating, Add	*465.85*	
40 05 19 00-1428	EA	30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,563.62	990.60
		For Class 52 Rating, Deduct	*-336.90*	
		For Class 54 Rating, Add	*229.70*	
		For Class 55 Rating, Add	*510.55*	
40 05 19 00-1429	EA	30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,835.40	993.00
		For Class 52 Rating, Deduct	*-366.40*	
		For Class 54 Rating, Add	*249.82*	
		For Class 55 Rating, Add	*555.26*	
40 05 19 00-1430	EA	30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,107.18	995.38
		For Class 52 Rating, Deduct	*-395.89*	
		For Class 54 Rating, Add	*269.93*	
		For Class 55 Rating, Add	*599.96*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,378.96	997.76
		For Class 52 Rating, Deduct	*-425.39*	
		For Class 54 Rating, Add	*290.04*	
		For Class 55 Rating, Add	*644.66*	
40 05 19 00-1432	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,650.74	1,000.16
		For Class 52 Rating, Deduct	*-454.89*	
		For Class 54 Rating, Add	*310.15*	
		For Class 55 Rating, Add	*689.36*	
40 05 19 00-1433	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,922.52	1,002.53
		For Class 52 Rating, Deduct	*-484.39*	
		For Class 54 Rating, Add	*330.26*	
		For Class 55 Rating, Add	*734.07*	
40 05 19 00-1434	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,194.30	1,004.92
		For Class 52 Rating, Deduct	*-513.88*	
		For Class 54 Rating, Add	*350.38*	
		For Class 55 Rating, Add	*778.77*	
40 05 19 00-1435	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,466.07	1,007.32
		For Class 52 Rating, Deduct	*-543.38*	
		For Class 54 Rating, Add	*370.49*	
		For Class 55 Rating, Add	*823.47*	
40 05 19 00-1436	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,737.86	1,009.70
		For Class 52 Rating, Deduct	*-572.88*	
		For Class 54 Rating, Add	*390.60*	
		For Class 55 Rating, Add	*868.18*	
40 05 19 00-1437	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,009.64	1,012.09
		For Class 52 Rating, Deduct	*-602.38*	
		For Class 54 Rating, Add	*410.71*	
		For Class 55 Rating, Add	*912.88*	
40 05 19 00-1438	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,281.41	1,014.48
		For Class 52 Rating, Deduct	*-631.88*	
		For Class 54 Rating, Add	*430.82*	
		For Class 55 Rating, Add	*957.58*	
40 05 19 00-1439	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,553.20	1,016.86
		For Class 52 Rating, Deduct	*-661.38*	
		For Class 54 Rating, Add	*450.94*	
		For Class 55 Rating, Add	*1,002.28*	
40 05 19 00-1440	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,824.98	1,019.25
		For Class 52 Rating, Deduct	*-690.87*	
		For Class 54 Rating, Add	*471.05*	
		For Class 55 Rating, Add	*1,046.99*	
40 05 19 00-1441	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,096.75	1,021.63
		For Class 52 Rating, Deduct	*-720.37*	
		For Class 54 Rating, Add	*491.16*	
		For Class 55 Rating, Add	*1,091.69*	
40 05 19 00-1442	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,368.53	1,024.02
		For Class 52 Rating, Deduct	*-749.87*	
		For Class 54 Rating, Add	*511.27*	
		For Class 55 Rating, Add	*1,136.39*	
40 05 19 00-1443	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,640.32	1,026.42
		For Class 52 Rating, Deduct	*-779.37*	
		For Class 54 Rating, Add	*531.39*	
		For Class 55 Rating, Add	*1,181.09*	
40 05 19 00-1444	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,912.09	1,028.79
		For Class 52 Rating, Deduct	*-808.86*	
		For Class 54 Rating, Add	*551.50*	
		For Class 55 Rating, Add	*1,225.80*	
40 05 19 00-1445	EA	30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,183.87	1,031.18
		For Class 52 Rating, Deduct	*-838.36*	
		For Class 54 Rating, Add	*571.61*	
		For Class 55 Rating, Add	*1,270.50*	
40 05 19 00-1446	EA	30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,455.66	1,033.58
		For Class 52 Rating, Deduct	*-867.86*	
		For Class 54 Rating, Add	*591.72*	
		For Class 55 Rating, Add	*1,315.20*	
40 05 19 00-1447	EA	30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,727.43	1,035.95
		For Class 52 Rating, Deduct	*-897.36*	
		For Class 54 Rating, Add	*611.84*	
		For Class 55 Rating, Add	*1,359.91*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1448	EA	30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,999.21	1,038.34
		For Class 52 Rating, Deduct	*-926.86*	
		For Class 54 Rating, Add	*631.95*	
		For Class 55 Rating, Add	*1,404.61*	
40 05 19 00-1449	EA	30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,271.00	1,040.74
		For Class 52 Rating, Deduct	*-956.35*	
		For Class 54 Rating, Add	*652.06*	
		For Class 55 Rating, Add	*1,449.31*	
40 05 19 00-1450	EA	30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,542.77	1,043.12
		For Class 52 Rating, Deduct	*-985.85*	
		For Class 54 Rating, Add	*672.17*	
		For Class 55 Rating, Add	*1,494.01*	
40 05 19 00-1451	EA	30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,814.55	1,045.51
		For Class 52 Rating, Deduct	*-1,015.35*	
		For Class 54 Rating, Add	*692.28*	
		For Class 55 Rating, Add	*1,538.72*	
40 05 19 00-1452	EA	30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,086.33	1,047.89
		For Class 52 Rating, Deduct	*-1,044.85*	
		For Class 54 Rating, Add	*712.40*	
		For Class 55 Rating, Add	*1,583.42*	
40 05 19 00-1453	EA	30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,358.11	1,050.28
		For Class 52 Rating, Deduct	*-1,074.35*	
		For Class 54 Rating, Add	*732.51*	
		For Class 55 Rating, Add	*1,628.12*	
40 05 19 00-1454	EA	30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,629.89	1,052.68
		For Class 52 Rating, Deduct	*-1,103.84*	
		For Class 54 Rating, Add	*752.62*	
		For Class 55 Rating, Add	*1,672.82*	
40 05 19 00-1455	EA	30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,901.67	1,055.05
		For Class 52 Rating, Deduct	*-1,133.34*	
		For Class 54 Rating, Add	*772.73*	
		For Class 55 Rating, Add	*1,717.53*	
40 05 19 00-1456	EA	30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,173.45	1,057.44
		For Class 52 Rating, Deduct	*-1,162.84*	
		For Class 54 Rating, Add	*792.85*	
		For Class 55 Rating, Add	*1,762.23*	
40 05 19 00-1457	EA	30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,445.23	1,059.84
		For Class 52 Rating, Deduct	*-1,192.34*	
		For Class 54 Rating, Add	*812.96*	
		For Class 55 Rating, Add	*1,806.93*	
40 05 19 00-1458	EA	30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,717.01	1,062.21
		For Class 52 Rating, Deduct	*-1,221.83*	
		For Class 54 Rating, Add	*833.07*	
		For Class 55 Rating, Add	*1,851.64*	
40 05 19 00-1459	EA	30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,988.79	1,064.60
		For Class 52 Rating, Deduct	*-1,251.33*	
		For Class 54 Rating, Add	*853.18*	
		For Class 55 Rating, Add	*1,896.34*	
40 05 19 00-1460	EA	30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,260.57	1,066.99
		For Class 52 Rating, Deduct	*-1,280.83*	
		For Class 54 Rating, Add	*873.29*	
		For Class 55 Rating, Add	*1,941.04*	
40 05 19 00-1461	EA	30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,532.35	1,069.38
		For Class 52 Rating, Deduct	*-1,310.33*	
		For Class 54 Rating, Add	*893.41*	
		For Class 55 Rating, Add	*1,985.74*	
40 05 19 00-1462	EA	30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,804.13	1,071.76
		For Class 52 Rating, Deduct	*-1,339.83*	
		For Class 54 Rating, Add	*913.52*	
		For Class 55 Rating, Add	*2,030.45*	

40 05 19 00-1463 36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1464	EA	36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,103.68	1,246.02
		For Class 52 Rating, Deduct	*-353.74*	
		For Class 54 Rating, Add	*241.18*	
		For Class 55 Rating, Add	*536.07*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1465	EA	36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,472.08	1,248.41
		For Class 52 Rating, Deduct	*-393.86*	
		For Class 54 Rating, Add	*268.54*	
		For Class 55 Rating, Add	*596.88*	
40 05 19 00-1466	EA	36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,840.50	1,250.78
		For Class 52 Rating, Deduct	*-433.99*	
		For Class 54 Rating, Add	*295.90*	
		For Class 55 Rating, Add	*657.69*	
40 05 19 00-1467	EA	36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,208.90	1,253.18
		For Class 52 Rating, Deduct	*-474.12*	
		For Class 54 Rating, Add	*323.26*	
		For Class 55 Rating, Add	*718.50*	
40 05 19 00-1468	EA	36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,577.30	1,255.57
		For Class 52 Rating, Deduct	*-514.24*	
		For Class 54 Rating, Add	*350.62*	
		For Class 55 Rating, Add	*779.31*	
40 05 19 00-1469	EA	36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,945.72	1,257.94
		For Class 52 Rating, Deduct	*-554.37*	
		For Class 54 Rating, Add	*377.98*	
		For Class 55 Rating, Add	*840.12*	
40 05 19 00-1470	EA	36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,314.12	1,260.34
		For Class 52 Rating, Deduct	*-594.50*	
		For Class 54 Rating, Add	*405.34*	
		For Class 55 Rating, Add	*900.93*	
40 05 19 00-1471	EA	36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,682.51	1,262.72
		For Class 52 Rating, Deduct	*-634.62*	
		For Class 54 Rating, Add	*432.70*	
		For Class 55 Rating, Add	*961.74*	
40 05 19 00-1472	EA	36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,050.93	1,265.11
		For Class 52 Rating, Deduct	*-674.75*	
		For Class 54 Rating, Add	*460.06*	
		For Class 55 Rating, Add	*1,022.55*	
40 05 19 00-1473	EA	36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,419.33	1,267.50
		For Class 52 Rating, Deduct	*-714.88*	
		For Class 54 Rating, Add	*487.42*	
		For Class 55 Rating, Add	*1,083.36*	
40 05 19 00-1474	EA	36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,787.74	1,269.88
		For Class 52 Rating, Deduct	*-755.00*	
		For Class 54 Rating, Add	*514.78*	
		For Class 55 Rating, Add	*1,144.17*	
40 05 19 00-1475	EA	36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,156.15	1,272.27
		For Class 52 Rating, Deduct	*-795.13*	
		For Class 54 Rating, Add	*542.13*	
		For Class 55 Rating, Add	*1,204.98*	
40 05 19 00-1476	EA	36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,524.55	1,274.65
		For Class 52 Rating, Deduct	*-835.26*	
		For Class 54 Rating, Add	*569.49*	
		For Class 55 Rating, Add	*1,265.79*	
40 05 19 00-1477	EA	36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,892.95	1,277.04
		For Class 52 Rating, Deduct	*-875.38*	
		For Class 54 Rating, Add	*596.85*	
		For Class 55 Rating, Add	*1,326.60*	
40 05 19 00-1478	EA	36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,261.36	1,279.44
		For Class 52 Rating, Deduct	*-915.51*	
		For Class 54 Rating, Add	*624.21*	
		For Class 55 Rating, Add	*1,387.41*	
40 05 19 00-1479	EA	36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,629.76	1,281.82
		For Class 52 Rating, Deduct	*-955.64*	
		For Class 54 Rating, Add	*651.57*	
		For Class 55 Rating, Add	*1,448.22*	
40 05 19 00-1480	EA	36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,998.17	1,284.20
		For Class 52 Rating, Deduct	*-995.76*	
		For Class 54 Rating, Add	*678.93*	
		For Class 55 Rating, Add	*1,509.04*	
40 05 19 00-1481	EA	36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,366.58	1,286.60
		For Class 52 Rating, Deduct	*-1,035.89*	
		For Class 54 Rating, Add	*706.29*	
		For Class 55 Rating, Add	*1,569.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1482	EA	36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,734.98	1,288.98
		For Class 52 Rating, Deduct	*-1,076.02*	
		For Class 54 Rating, Add	*733.65*	
		For Class 55 Rating, Add	*1,630.66*	
40 05 19 00-1483	EA	36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,103.39	1,291.37
		For Class 52 Rating, Deduct	*-1,116.14*	
		For Class 54 Rating, Add	*761.01*	
		For Class 55 Rating, Add	*1,691.47*	
40 05 19 00-1484	EA	36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,471.79	1,293.75
		For Class 52 Rating, Deduct	*-1,156.27*	
		For Class 54 Rating, Add	*788.37*	
		For Class 55 Rating, Add	*1,752.28*	
40 05 19 00-1485	EA	36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,840.19	1,296.14
		For Class 52 Rating, Deduct	*-1,196.40*	
		For Class 54 Rating, Add	*815.73*	
		For Class 55 Rating, Add	*1,813.09*	
40 05 19 00-1486	EA	36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,208.60	1,298.53
		For Class 52 Rating, Deduct	*-1,236.52*	
		For Class 54 Rating, Add	*843.08*	
		For Class 55 Rating, Add	*1,873.90*	
40 05 19 00-1487	EA	36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,577.01	1,300.91
		For Class 52 Rating, Deduct	*-1,276.65*	
		For Class 54 Rating, Add	*870.44*	
		For Class 55 Rating, Add	*1,934.71*	
40 05 19 00-1488	EA	36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,945.41	1,303.30
		For Class 52 Rating, Deduct	*-1,316.78*	
		For Class 54 Rating, Add	*897.80*	
		For Class 55 Rating, Add	*1,995.52*	
40 05 19 00-1489	EA	36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,313.82	1,305.69
		For Class 52 Rating, Deduct	*-1,356.91*	
		For Class 54 Rating, Add	*925.16*	
		For Class 55 Rating, Add	*2,056.33*	
40 05 19 00-1490	EA	36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,682.21	1,308.08
		For Class 52 Rating, Deduct	*-1,397.03*	
		For Class 54 Rating, Add	*952.52*	
		For Class 55 Rating, Add	*2,117.14*	
40 05 19 00-1491	EA	36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,050.62	1,310.46
		For Class 52 Rating, Deduct	*-1,437.16*	
		For Class 54 Rating, Add	*979.88*	
		For Class 55 Rating, Add	*2,177.95*	
40 05 19 00-1492	EA	36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,419.03	1,312.85
		For Class 52 Rating, Deduct	*-1,477.28*	
		For Class 54 Rating, Add	*1,007.24*	
		For Class 55 Rating, Add	*2,238.76*	
40 05 19 00-1493	EA	36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,787.43	1,315.24
		For Class 52 Rating, Deduct	*-1,517.41*	
		For Class 54 Rating, Add	*1,034.60*	
		For Class 55 Rating, Add	*2,299.57*	
40 05 19 00-1494	EA	36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,155.84	1,317.62
		For Class 52 Rating, Deduct	*-1,557.54*	
		For Class 54 Rating, Add	*1,061.96*	
		For Class 55 Rating, Add	*2,360.38*	
40 05 19 00-1495	EA	36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,524.25	1,320.01
		For Class 52 Rating, Deduct	*-1,597.67*	
		For Class 54 Rating, Add	*1,089.32*	
		For Class 55 Rating, Add	*2,421.19*	
40 05 19 00-1496	EA	36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,892.65	1,322.40
		For Class 52 Rating, Deduct	*-1,637.79*	
		For Class 54 Rating, Add	*1,116.68*	
		For Class 55 Rating, Add	*2,482.00*	
40 05 19 00-1497	EA	36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,261.05	1,324.79
		For Class 52 Rating, Deduct	*-1,677.92*	
		For Class 54 Rating, Add	*1,144.04*	
		For Class 55 Rating, Add	*2,542.81*	
40 05 19 00-1498	EA	36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,629.46	1,327.17
		For Class 52 Rating, Deduct	*-1,718.04*	
		For Class 54 Rating, Add	*1,171.39*	
		For Class 55 Rating, Add	*2,603.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1499	EA	36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,997.86	1,329.56
		For Class 52 Rating, Deduct	*-1,758.17*	
		For Class 54 Rating, Add	*1,198.75*	
		For Class 55 Rating, Add	*2,664.43*	
40 05 19 00-1500	EA	36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,366.27	1,331.95
		For Class 52 Rating, Deduct	*-1,798.30*	
		For Class 54 Rating, Add	*1,226.11*	
		For Class 55 Rating, Add	*2,725.24*	
40 05 19 00-1501	EA	36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,734.68	1,334.33
		For Class 52 Rating, Deduct	*-1,838.43*	
		For Class 54 Rating, Add	*1,253.47*	
		For Class 55 Rating, Add	*2,786.05*	

40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1503	EA	42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,691.01	1,570.65
		For Class 52 Rating, Deduct	*-474.24*	
		For Class 54 Rating, Add	*323.34*	
		For Class 55 Rating, Add	*718.68*	
40 05 19 00-1504	EA	42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,239.63	1,573.03
		For Class 52 Rating, Deduct	*-534.19*	
		For Class 54 Rating, Add	*364.22*	
		For Class 55 Rating, Add	*809.54*	
40 05 19 00-1505	EA	42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,781.74	1,575.42
		For Class 52 Rating, Deduct	*-593.42*	
		For Class 54 Rating, Add	*404.61*	
		For Class 55 Rating, Add	*899.30*	
40 05 19 00-1506	EA	42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,329.29	1,577.81
		For Class 52 Rating, Deduct	*-653.25*	
		For Class 54 Rating, Add	*445.40*	
		For Class 55 Rating, Add	*989.98*	
40 05 19 00-1507	EA	42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,871.40	1,580.20
		For Class 52 Rating, Deduct	*-712.49*	
		For Class 54 Rating, Add	*485.79*	
		For Class 55 Rating, Add	*1,079.74*	
40 05 19 00-1508	EA	42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,420.03	1,582.58
		For Class 52 Rating, Deduct	*-772.44*	
		For Class 54 Rating, Add	*526.66*	
		For Class 55 Rating, Add	*1,170.60*	
40 05 19 00-1509	EA	42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,961.06	1,584.96
		For Class 52 Rating, Deduct	*-831.55*	
		For Class 54 Rating, Add	*566.97*	
		For Class 55 Rating, Add	*1,260.18*	
40 05 19 00-1510	EA	42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,509.68	1,587.36
		For Class 52 Rating, Deduct	*-891.51*	
		For Class 54 Rating, Add	*607.85*	
		For Class 55 Rating, Add	*1,351.04*	
40 05 19 00-1511	EA	42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,051.80	1,589.75
		For Class 52 Rating, Deduct	*-950.74*	
		For Class 54 Rating, Add	*648.23*	
		For Class 55 Rating, Add	*1,440.80*	
40 05 19 00-1512	EA	42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,599.34	1,592.12
		For Class 52 Rating, Deduct	*-1,010.57*	
		For Class 54 Rating, Add	*689.03*	
		For Class 55 Rating, Add	*1,531.48*	
40 05 19 00-1513	EA	42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,141.45	1,594.52
		For Class 52 Rating, Deduct	*-1,069.81*	
		For Class 54 Rating, Add	*729.41*	
		For Class 55 Rating, Add	*1,621.24*	
40 05 19 00-1514	EA	42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,689.00	1,596.91
		For Class 52 Rating, Deduct	*-1,129.64*	
		For Class 54 Rating, Add	*770.21*	
		For Class 55 Rating, Add	*1,711.92*	
40 05 19 00-1515	EA	42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,231.11	1,599.28
		For Class 52 Rating, Deduct	*-1,188.87*	
		For Class 54 Rating, Add	*810.60*	
		For Class 55 Rating, Add	*1,801.68*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1516	EA	42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,774.31	1,601.68
		For Class 52 Rating, Deduct	*-1,248.23*	
		For Class 54 Rating, Add	*851.06*	
		For Class 55 Rating, Add	*1,891.63*	
40 05 19 00-1517	EA	42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,320.77	1,604.06
		For Class 52 Rating, Deduct	*-1,307.94*	
		For Class 54 Rating, Add	*891.78*	
		For Class 55 Rating, Add	*1,982.12*	
40 05 19 00-1518	EA	42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,862.88	1,606.45
		For Class 52 Rating, Deduct	*-1,367.17*	
		For Class 54 Rating, Add	*932.16*	
		For Class 55 Rating, Add	*2,071.89*	
40 05 19 00-1519	EA	42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,411.51	1,608.84
		For Class 52 Rating, Deduct	*-1,427.13*	
		For Class 54 Rating, Add	*973.04*	
		For Class 55 Rating, Add	*2,162.75*	
40 05 19 00-1520	EA	42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,953.62	1,611.22
		For Class 52 Rating, Deduct	*-1,486.36*	
		For Class 54 Rating, Add	*1,013.43*	
		For Class 55 Rating, Add	*2,252.51*	
40 05 19 00-1521	EA	42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,501.17	1,613.62
		For Class 52 Rating, Deduct	*-1,546.19*	
		For Class 54 Rating, Add	*1,054.22*	
		For Class 55 Rating, Add	*2,343.19*	
40 05 19 00-1522	EA	42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,043.28	1,616.00
		For Class 52 Rating, Deduct	*-1,605.43*	
		For Class 54 Rating, Add	*1,094.61*	
		For Class 55 Rating, Add	*2,432.95*	
40 05 19 00-1523	EA	42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,591.91	1,618.38
		For Class 52 Rating, Deduct	*-1,665.38*	
		For Class 54 Rating, Add	*1,135.49*	
		For Class 55 Rating, Add	*2,523.81*	
40 05 19 00-1524	EA	42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,134.02	1,620.78
		For Class 52 Rating, Deduct	*-1,724.61*	
		For Class 54 Rating, Add	*1,175.87*	
		For Class 55 Rating, Add	*2,613.57*	
40 05 19 00-1525	EA	42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,681.56	1,623.16
		For Class 52 Rating, Deduct	*-1,784.45*	
		For Class 54 Rating, Add	*1,216.67*	
		For Class 55 Rating, Add	*2,704.25*	
40 05 19 00-1526	EA	42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,223.68	1,625.54
		For Class 52 Rating, Deduct	*-1,843.68*	
		For Class 54 Rating, Add	*1,257.05*	
		For Class 55 Rating, Add	*2,794.01*	
40 05 19 00-1527	EA	42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,772.31	1,627.94
		For Class 52 Rating, Deduct	*-1,903.63*	
		For Class 54 Rating, Add	*1,297.93*	
		For Class 55 Rating, Add	*2,884.87*	
40 05 19 00-1528	EA	42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,314.42	1,630.32
		For Class 52 Rating, Deduct	*-1,962.87*	
		For Class 54 Rating, Add	*1,338.32*	
		For Class 55 Rating, Add	*2,974.63*	
40 05 19 00-1529	EA	42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,860.88	1,632.70
		For Class 52 Rating, Deduct	*-2,022.58*	
		For Class 54 Rating, Add	*1,379.03*	
		For Class 55 Rating, Add	*3,065.13*	
40 05 19 00-1530	EA	42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,404.08	1,635.10
		For Class 52 Rating, Deduct	*-2,081.93*	
		For Class 54 Rating, Add	*1,419.50*	
		For Class 55 Rating, Add	*3,155.07*	
40 05 19 00-1531	EA	42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,837.62	1,637.48
		For Class 52 Rating, Deduct	*-2,129.22*	
		For Class 54 Rating, Add	*1,451.74*	
		For Class 55 Rating, Add	*3,226.74*	
40 05 19 00-1532	EA	42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,493.73	1,639.88
		For Class 52 Rating, Deduct	*-2,201.00*	
		For Class 54 Rating, Add	*1,500.68*	
		For Class 55 Rating, Add	*3,335.51*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1533	EA	42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,035.85	1,642.25
		For Class 52 Rating, Deduct	*-2,260.23*	
		For Class 54 Rating, Add	*1,541.07*	
		For Class 55 Rating, Add	*3,425.28*	
40 05 19 00-1534	EA	42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,583.39	1,644.64
		For Class 52 Rating, Deduct	*-2,320.07*	
		For Class 54 Rating, Add	*1,581.86*	
		For Class 55 Rating, Add	*3,515.95*	
40 05 19 00-1535	EA	42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,125.50	1,647.04
		For Class 52 Rating, Deduct	*-2,379.30*	
		For Class 54 Rating, Add	*1,622.25*	
		For Class 55 Rating, Add	*3,605.72*	
40 05 19 00-1536	EA	42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,674.13	1,649.42
		For Class 52 Rating, Deduct	*-2,439.25*	
		For Class 54 Rating, Add	*1,663.13*	
		For Class 55 Rating, Add	*3,696.57*	
40 05 19 00-1537	EA	42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,215.17	1,651.80
		For Class 52 Rating, Deduct	*-2,498.37*	
		For Class 54 Rating, Add	*1,703.43*	
		For Class 55 Rating, Add	*3,786.16*	
40 05 19 00-1538	EA	42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,763.79	1,654.20
		For Class 52 Rating, Deduct	*-2,558.32*	
		For Class 54 Rating, Add	*1,744.31*	
		For Class 55 Rating, Add	*3,877.02*	
40 05 19 00-1539	EA	42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,305.90	1,656.58
		For Class 52 Rating, Deduct	*-2,617.55*	
		For Class 54 Rating, Add	*1,784.69*	
		For Class 55 Rating, Add	*3,966.78*	
40 05 19 00-1540	EA	42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,853.45	1,658.96
		For Class 52 Rating, Deduct	*-2,677.38*	
		For Class 54 Rating, Add	*1,825.49*	
		For Class 55 Rating, Add	*4,057.45*	

40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe *(40 05 19 00-1028)*

40 05 19 00-1542	EA	48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,597.43	1,974.05
		For Class 52 Rating, Deduct	*-616.71*	
		For Class 54 Rating, Add	*420.48*	
		For Class 55 Rating, Add	*934.60*	
40 05 19 00-1543	EA	48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,394.68	1,976.44
		For Class 52 Rating, Deduct	*-704.01*	
		For Class 54 Rating, Add	*480.01*	
		For Class 55 Rating, Add	*1,066.89*	
40 05 19 00-1544	EA	48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,190.85	1,978.82
		For Class 52 Rating, Deduct	*-791.19*	
		For Class 54 Rating, Add	*539.45*	
		For Class 55 Rating, Add	*1,199.01*	
40 05 19 00-1545	EA	48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,993.52	1,981.22
		For Class 52 Rating, Deduct	*-879.09*	
		For Class 54 Rating, Add	*599.38*	
		For Class 55 Rating, Add	*1,332.21*	
40 05 19 00-1546	EA	48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,790.77	1,983.59
		For Class 52 Rating, Deduct	*-966.39*	
		For Class 54 Rating, Add	*658.90*	
		For Class 55 Rating, Add	*1,464.51*	
40 05 19 00-1547	EA	48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,588.02	1,985.98
		For Class 52 Rating, Deduct	*-1,053.68*	
		For Class 54 Rating, Add	*718.42*	
		For Class 55 Rating, Add	*1,596.81*	
40 05 19 00-1548	EA	48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,389.61	1,988.38
		For Class 52 Rating, Deduct	*-1,141.46*	
		For Class 54 Rating, Add	*778.27*	
		For Class 55 Rating, Add	*1,729.83*	
40 05 19 00-1549	EA	48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,187.95	1,990.75
		For Class 52 Rating, Deduct	*-1,228.88*	
		For Class 54 Rating, Add	*837.87*	
		For Class 55 Rating, Add	*1,862.31*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1550	EA	48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,984.11	1,993.14
		For Class 52 Rating, Deduct	*-1,316.06*	
		For Class 54 Rating, Add	*897.31*	
		For Class 55 Rating, Add	*1,994.43*	
40 05 19 00-1551	EA	48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,786.78	1,995.54
		For Class 52 Rating, Deduct	*-1,403.96*	
		For Class 54 Rating, Add	*957.24*	
		For Class 55 Rating, Add	*2,127.63*	
40 05 19 00-1552	EA	48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,584.04	1,997.92
		For Class 52 Rating, Deduct	*-1,491.26*	
		For Class 54 Rating, Add	*1,016.77*	
		For Class 55 Rating, Add	*2,259.93*	
40 05 19 00-1553	EA	48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,386.72	2,000.31
		For Class 52 Rating, Deduct	*-1,579.15*	
		For Class 54 Rating, Add	*1,076.70*	
		For Class 55 Rating, Add	*2,393.14*	
40 05 19 00-1554	EA	48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,182.87	2,002.69
		For Class 52 Rating, Deduct	*-1,666.33*	
		For Class 54 Rating, Add	*1,136.14*	
		For Class 55 Rating, Add	*2,525.25*	
40 05 19 00-1555	EA	48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,980.13	2,005.08
		For Class 52 Rating, Deduct	*-1,753.63*	
		For Class 54 Rating, Add	*1,195.66*	
		For Class 55 Rating, Add	*2,657.55*	
40 05 19 00-1556	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,782.81	2,007.48
		For Class 52 Rating, Deduct	*-1,841.53*	
		For Class 54 Rating, Add	*1,255.59*	
		For Class 55 Rating, Add	*2,790.76*	
40 05 19 00-1557	EA	48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,580.05	2,009.85
		For Class 52 Rating, Deduct	*-1,928.83*	
		For Class 54 Rating, Add	*1,315.11*	
		For Class 55 Rating, Add	*2,923.05*	
40 05 19 00-1558	EA	48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,376.21	2,012.24
		For Class 52 Rating, Deduct	*-2,016.01*	
		For Class 54 Rating, Add	*1,374.55*	
		For Class 55 Rating, Add	*3,055.17*	
40 05 19 00-1559	EA	48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,178.89	2,014.64
		For Class 52 Rating, Deduct	*-2,103.91*	
		For Class 54 Rating, Add	*1,434.48*	
		For Class 55 Rating, Add	*3,188.37*	
40 05 19 00-1560	EA	48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,976.14	2,017.01
		For Class 52 Rating, Deduct	*-2,191.21*	
		For Class 54 Rating, Add	*1,494.00*	
		For Class 55 Rating, Add	*3,320.67*	
40 05 19 00-1561	EA	48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,772.30	2,019.40
		For Class 52 Rating, Deduct	*-2,278.39*	
		For Class 54 Rating, Add	*1,553.45*	
		For Class 55 Rating, Add	*3,452.79*	
40 05 19 00-1562	EA	48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,574.98	2,021.79
		For Class 52 Rating, Deduct	*-2,366.28*	
		For Class 54 Rating, Add	*1,613.37*	
		For Class 55 Rating, Add	*3,585.99*	
40 05 19 00-1563	EA	48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,373.31	2,024.18
		For Class 52 Rating, Deduct	*-2,453.70*	
		For Class 54 Rating, Add	*1,672.98*	
		For Class 55 Rating, Add	*3,718.47*	
40 05 19 00-1564	EA	48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,169.48	2,026.56
		For Class 52 Rating, Deduct	*-2,540.88*	
		For Class 54 Rating, Add	*1,732.42*	
		For Class 55 Rating, Add	*3,850.59*	
40 05 19 00-1565	EA	48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,972.16	2,028.95
		For Class 52 Rating, Deduct	*-2,628.78*	
		For Class 54 Rating, Add	*1,792.35*	
		For Class 55 Rating, Add	*3,983.79*	
40 05 19 00-1566	EA	48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,769.40	2,031.34
		For Class 52 Rating, Deduct	*-2,716.08*	
		For Class 54 Rating, Add	*1,851.87*	
		For Class 55 Rating, Add	*4,116.09*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1567	EA	48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,565.57	2,033.72
		For Class 52 Rating, Deduct	*-2,803.26*	
		For Class 54 Rating, Add	*1,911.31*	
		For Class 55 Rating, Add	*4,248.21*	
40 05 19 00-1568	EA	48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,368.25	2,036.11
		For Class 52 Rating, Deduct	*-2,891.16*	
		For Class 54 Rating, Add	*1,971.24*	
		For Class 55 Rating, Add	*4,381.41*	
40 05 19 00-1569	EA	48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,165.49	2,038.50
		For Class 52 Rating, Deduct	*-2,978.45*	
		For Class 54 Rating, Add	*2,030.76*	
		For Class 55 Rating, Add	*4,513.71*	
40 05 19 00-1570	EA	48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,865.04	2,040.89
		For Class 52 Rating, Deduct	*-3,055.01*	
		For Class 54 Rating, Add	*2,082.96*	
		For Class 55 Rating, Add	*4,629.72*	
40 05 19 00-1571	EA	48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,765.42	2,043.27
		For Class 52 Rating, Deduct	*-3,153.65*	
		For Class 54 Rating, Add	*2,150.22*	
		For Class 55 Rating, Add	*4,779.21*	
40 05 19 00-1572	EA	48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,561.58	2,045.66
		For Class 52 Rating, Deduct	*-3,240.83*	
		For Class 54 Rating, Add	*2,209.66*	
		For Class 55 Rating, Add	*4,911.33*	
40 05 19 00-1573	EA	48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,365.35	2,048.05
		For Class 52 Rating, Deduct	*-3,328.85*	
		For Class 54 Rating, Add	*2,269.67*	
		For Class 55 Rating, Add	*5,044.72*	
40 05 19 00-1574	EA	48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,161.51	2,050.43
		For Class 52 Rating, Deduct	*-3,416.03*	
		For Class 54 Rating, Add	*2,329.11*	
		For Class 55 Rating, Add	*5,176.83*	
40 05 19 00-1575	EA	48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,957.67	2,052.82
		For Class 52 Rating, Deduct	*-3,503.21*	
		For Class 54 Rating, Add	*2,388.55*	
		For Class 55 Rating, Add	*5,308.95*	
40 05 19 00-1576	EA	48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,761.44	2,055.21
		For Class 52 Rating, Deduct	*-3,591.22*	
		For Class 54 Rating, Add	*2,448.56*	
		For Class 55 Rating, Add	*5,442.33*	
40 05 19 00-1577	EA	48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,557.60	2,057.60
		For Class 52 Rating, Deduct	*-3,678.40*	
		For Class 54 Rating, Add	*2,508.00*	
		For Class 55 Rating, Add	*5,574.45*	
40 05 19 00-1578	EA	48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,354.84	2,059.97
		For Class 52 Rating, Deduct	*-3,765.70*	
		For Class 54 Rating, Add	*2,567.52*	
		For Class 55 Rating, Add	*5,706.75*	
40 05 19 00-1579	EA	48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,157.53	2,062.37
		For Class 52 Rating, Deduct	*-3,853.60*	
		For Class 54 Rating, Add	*2,627.45*	
		For Class 55 Rating, Add	*5,839.95*	

40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows *(40 05 19 00-0001)*

40 05 19 00-1581	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	323.23	115.16
40 05 19 00-1582	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	453.30	147.27
40 05 19 00-1583	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	631.64	166.81
40 05 19 00-1584	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	921.90	211.48
40 05 19 00-1585	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,139.18	234.52
40 05 19 00-1586	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,417.39	254.75
40 05 19 00-1587	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,746.13	314.08
40 05 19 00-1588	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,288.60	376.90
40 05 19 00-1589	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,819.89	474.60
40 05 19 00-1590	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	4,277.60	537.42
40 05 19 00-1591	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	7,181.26	711.91
40 05 19 00-1592	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	10,166.34	806.14
40 05 19 00-1593	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	16,998.22	921.29
40 05 19 00-1594	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	22,626.61	1,130.69

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1595		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows** *(40 05 19 00-0001)*		
40 05 19 00-1596	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	306.94	115.16
40 05 19 00-1597	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	427.25	147.27
40 05 19 00-1598	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	565.42	166.81
40 05 19 00-1599	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	826.36	211.48
40 05 19 00-1600	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,017.58	234.52
40 05 19 00-1601	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,169.85	254.75
40 05 19 00-1602	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,472.53	314.08
40 05 19 00-1603	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,920.55	376.90
40 05 19 00-1604	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,484.42	474.60
40 05 19 00-1605	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,265.75	537.42
40 05 19 00-1606	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	6,440.82	711.91
40 05 19 00-1607	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	9,625.67	806.14
40 05 19 00-1608	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	14,673.78	921.29
40 05 19 00-1609	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	19,997.10	1,130.69
40 05 19 00-1610		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows** *(40 05 19 00-0001)*		
40 05 19 00-1611	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	305.86	115.16
40 05 19 00-1612	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	418.56	147.27
40 05 19 00-1613	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	557.82	166.81
40 05 19 00-1614	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	804.64	211.48
40 05 19 00-1615	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,065.35	234.52
40 05 19 00-1616	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,320.76	254.75
40 05 19 00-1617	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,506.19	314.08
40 05 19 00-1618	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,961.81	376.90
40 05 19 00-1619	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,663.55	474.60
40 05 19 00-1620	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,673.96	537.42
40 05 19 00-1621	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	6,513.56	711.91
40 05 19 00-1622	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,792.86	806.14
40 05 19 00-1623	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	15,007.08	921.29
40 05 19 00-1624	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	20,431.37	1,130.69
40 05 19 00-1625		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows** *(40 05 19 00-0001)*		
40 05 19 00-1626	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	333.00	115.16
40 05 19 00-1627	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	469.59	147.27
40 05 19 00-1628	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	579.53	166.81
40 05 19 00-1629	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	881.73	211.48
40 05 19 00-1630	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,207.58	234.52
40 05 19 00-1631	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,357.67	254.75
40 05 19 00-1632	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,660.36	314.08
40 05 19 00-1633	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,961.81	376.90
40 05 19 00-1634	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,663.55	474.60
40 05 19 00-1635	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,820.53	537.42
40 05 19 00-1636	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	6,586.30	711.91
40 05 19 00-1637	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,864.52	806.14
40 05 19 00-1638	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	15,083.08	921.29
40 05 19 00-1639	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	20,584.45	1,130.69
40 05 19 00-1640		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows** *(40 05 19 00-0001)*		
40 05 19 00-1641	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	427.89	131.21
40 05 19 00-1642	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	526.29	140.98
40 05 19 00-1643	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	592.96	157.03
40 05 19 00-1644	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	788.13	163.33
40 05 19 00-1645	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	833.08	179.38
40 05 19 00-1646	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	909.76	189.15
40 05 19 00-1647	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	847.35	175.19
40 05 19 00-1648	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	954.20	191.24
40 05 19 00-1649	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,094.94	201.01
40 05 19 00-1650	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,167.86	223.35
40 05 19 00-1651	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,094.94	201.01
40 05 19 00-1652	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,211.80	210.78
40 05 19 00-1653	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,349.85	233.12
40 05 19 00-1654	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,492.70	244.98
40 05 19 00-1655	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,262.56	230.68
40 05 19 00-1656	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,360.96	240.45
40 05 19 00-1657	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,560.91	262.78
40 05 19 00-1658	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,702.13	274.29
40 05 19 00-1659	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,821.69	284.41
40 05 19 00-1660	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,476.26	262.08
40 05 19 00-1661	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,761.40	271.85
40 05 19 00-1662	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,815.86	294.19
40 05 19 00-1663	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,916.92	305.71

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1664	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,077.73	315.82
40 05 19 00-1665	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,265.98	345.48
40 05 19 00-1666	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,902.04	310.94
40 05 19 00-1667	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,028.68	320.71
40 05 19 00-1668	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,508.73	343.04
40 05 19 00-1669	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,603.27	354.56
40 05 19 00-1670	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,868.31	364.68
40 05 19 00-1671	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,810.11	394.34
40 05 19 00-1672	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,992.32	425.75
40 05 19 00-1673	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,664.00	342.34
40 05 19 00-1674	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,791.72	352.12
40 05 19 00-1675	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,003.62	374.45
40 05 19 00-1676	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,155.69	385.97
40 05 19 00-1677	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,439.18	396.09
40 05 19 00-1678	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,706.70	425.75
40 05 19 00-1679	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,798.79	457.16
40 05 19 00-1680	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,991.98	452.10
40 05 19 00-1681	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,738.35	473.21
40 05 19 00-1682	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,041.38	483.34
40 05 19 00-1683	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,679.12	513.00
40 05 19 00-1684	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,595.25	544.41
40 05 19 00-1685	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,621.41	593.26
40 05 19 00-1686	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,048.99	624.67
40 05 19 00-1687	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,510.99	520.32
40 05 19 00-1688	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,415.41	530.44
40 05 19 00-1689	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,858.97	560.11
40 05 19 00-1690	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,938.96	591.51
40 05 19 00-1691	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,560.26	640.37
40 05 19 00-1692	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,329.82	671.78
40 05 19 00-1693	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,959.25	759.03
40 05 19 00-1694	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,477.42	588.02
40 05 19 00-1695	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,695.16	617.69
40 05 19 00-1696	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,035.61	649.10
40 05 19 00-1697	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,834.97	697.95
40 05 19 00-1698	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,218.20	729.36
40 05 19 00-1699	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,213.42	816.61
40 05 19 00-1700	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,622.00	863.72
40 05 19 00-1701	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	17,824.87	842.78
40 05 19 00-1702	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	19,386.90	930.03
40 05 19 00-1703	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	19,957.69	977.13
40 05 19 00-1704	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	25,493.97	1,034.71

40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows *(40 05 19 00-0001)*

40 05 19 00-1706	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	382.94	115.16
40 05 19 00-1707	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	586.84	147.27
40 05 19 00-1708	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	855.29	166.81
40 05 19 00-1709	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,212.86	211.48
40 05 19 00-1710	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,704.82	234.52
40 05 19 00-1711	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,985.20	254.75
40 05 19 00-1712	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,573.41	314.08
40 05 19 00-1713	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,186.45	376.90
40 05 19 00-1714	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,339.84	474.60
40 05 19 00-1715	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,355.59	537.42
40 05 19 00-1716	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	11,158.10	711.91
40 05 19 00-1717	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	16,950.75	806.14
40 05 19 00-1718	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	26,242.78	921.29

40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base *(40 05 19 00-0001)*

40 05 19 00-1720	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	403.57	115.16
40 05 19 00-1721	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	546.67	147.27
40 05 19 00-1722	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	883.52	166.81
40 05 19 00-1723	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,192.23	211.48
40 05 19 00-1724	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,595.17	234.52
40 05 19 00-1725	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,880.97	254.75
40 05 19 00-1726	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,323.71	314.08
40 05 19 00-1727	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,917.20	376.90
40 05 19 00-1728	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,846.94	474.60
40 05 19 00-1729	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,417.56	537.42
40 05 19 00-1730	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	8,859.72	711.91
40 05 19 00-1731	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	12,641.69	806.14
40 05 19 00-1732	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	23,406.99	921.29
40 05 19 00-1733	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	25,257.22	1,130.69

40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees *(40 05 19 00-0001)*

40 05 19 00-1735	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	551.66	184.96

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	683.48	227.54
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	950.57	254.06
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,360.06	330.13
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,796.37	360.15
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,392.41	387.36
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,717.27	488.57
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,308.33	558.37
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,173.13	704.93
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	6,110.28	778.22
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	10,365.03	1,074.85
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	14,896.82	1,231.89
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	30,655.32	1,423.82

40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees

(40 05 19 00-0001)

40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	687.58	206.59
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	844.84	210.78
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	848.11	237.31
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,107.75	233.12
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,098.01	259.64
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,158.13	276.39
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,397.16	244.98
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,397.17	271.50
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,475.75	288.26
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,758.02	341.99
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,022.11	254.75
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	1,983.04	281.27
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,071.38	298.03
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,192.98	351.77
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,325.24	370.27
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,449.21	284.41
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,263.57	310.94
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,230.33	327.69
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,616.84	381.43
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,543.89	399.92
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,832.53	417.03
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,990.78	315.82
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,268.82	342.34
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,725.21	359.10
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,742.59	412.83
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	2,982.32	431.34
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,252.51	448.43
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,485.75	519.97
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,562.87	364.68
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,319.96	391.20
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,389.85	407.95
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,538.59	461.69
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,677.36	480.20
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,726.07	497.29
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,482.61	568.83
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,585.29	607.22
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,377.21	396.09
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,792.05	422.61
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	3,964.00	439.36
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,126.85	493.11
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,619.54	511.60
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,734.48	528.70
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	4,901.50	600.24
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,419.90	638.63
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	6,643.68	682.43
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,740.40	509.86
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	7,788.58	526.60
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,014.40	580.35
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,042.43	598.84
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,068.34	615.95
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,248.39	687.49
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,354.31	725.87
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	8,620.71	823.59
40 05 19 00-1802	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,007.51	865.47
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	10,681.32	729.71
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,421.21	742.98
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,502.74	781.01
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,597.13	796.01
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,641.64	809.63
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,766.08	860.22
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	11,842.84	895.13
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	12,049.41	968.41
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	12,320.98	1,005.06
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	16,111.08	1,153.37
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	19,005.94	631.30
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,202.63	685.04

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1815	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,230.66	703.54
40 05 19 00-1816	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,281.54	720.63
40 05 19 00-1817	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,440.96	792.17
40 05 19 00-1818	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,627.24	830.56
40 05 19 00-1819	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	17,775.28	928.28
40 05 19 00-1820	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	18,042.84	970.15
40 05 19 00-1821	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	22,853.72	1,179.54
40 05 19 00-1822	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	29,328.08	1,289.47
40 05 19 00-1823	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	23,276.03	816.96
40 05 19 00-1824	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	23,301.94	834.05
40 05 19 00-1825	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	23,486.33	905.59
40 05 19 00-1826	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	23,544.49	943.98
40 05 19 00-1827	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	23,793.50	1,041.69
40 05 19 00-1828	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	24,036.10	1,083.57
40 05 19 00-1829	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee	24,711.62	1,292.96

40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base *(40 05 19 00-0001)*

40 05 19 00-1831	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	592.92	184.96
40 05 19 00-1832	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	801.82	227.54
40 05 19 00-1833	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,154.68	254.06
40 05 19 00-1834	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,745.48	330.13
40 05 19 00-1835	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,330.53	360.15
40 05 19 00-1836	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,600.86	387.36
40 05 19 00-1837	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	3,229.71	488.57
40 05 19 00-1838	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	3,917.40	558.37
40 05 19 00-1839	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	5,224.07	704.93
40 05 19 00-1840	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	7,480.41	778.22
40 05 19 00-1841	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	12,498.39	1,074.85
40 05 19 00-1842	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	17,761.93	1,231.89

40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes *(40 05 19 00-0001)*

40 05 19 00-1844	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	488.69	184.96
40 05 19 00-1845	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	678.05	227.54
40 05 19 00-1846	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	966.85	254.06
40 05 19 00-1847	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	1,269.95	330.13
40 05 19 00-1848	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	1,790.95	360.15
40 05 19 00-1849	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye	2,309.89	387.36

40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses *(40 05 19 00-0001)*

40 05 19 00-1851	EA	4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	671.52	254.75
40 05 19 00-1852	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	875.32	276.04
40 05 19 00-1853	EA	6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	929.95	307.80
40 05 19 00-1854	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,068.92	280.57
40 05 19 00-1855	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,167.32	317.57
40 05 19 00-1856	EA	8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,210.87	341.30
40 05 19 00-1857	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,372.02	302.91
40 05 19 00-1858	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,511.66	339.90
40 05 19 00-1859	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,651.84	363.64
40 05 19 00-1860	EA	10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,050.11	448.78
40 05 19 00-1861	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,762.93	314.43
40 05 19 00-1862	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	1,860.25	351.41
40 05 19 00-1863	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,001.51	375.15
40 05 19 00-1864	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,420.40	460.30
40 05 19 00-1865	EA	12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,288.54	485.78
40 05 19 00-1866	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,207.79	361.54
40 05 19 00-1867	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,347.98	385.27
40 05 19 00-1868	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,622.47	470.42
40 05 19 00-1869	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,848.89	495.90
40 05 19 00-1870	EA	14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,988.51	519.97
40 05 19 00-1871	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,627.29	391.20
40 05 19 00-1872	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,787.02	414.94
40 05 19 00-1873	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,061.51	500.09
40 05 19 00-1874	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,308.56	525.56
40 05 19 00-1875	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,581.63	549.64
40 05 19 00-1876	EA	16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,765.51	663.05
40 05 19 00-1877	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,737.85	422.61
40 05 19 00-1878	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	2,896.50	446.34
40 05 19 00-1879	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,129.73	531.49
40 05 19 00-1880	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,375.70	556.97
40 05 19 00-1881	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,868.16	581.05
40 05 19 00-1882	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,227.83	694.47
40 05 19 00-1883	EA	18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,421.42	739.83
40 05 19 00-1884	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,553.39	471.46
40 05 19 00-1885	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,722.89	495.20
40 05 19 00-1886	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	3,940.93	580.35
40 05 19 00-1887	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,203.19	605.82

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1888	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,284.18	629.90
40 05 19 00-1889	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,216.00	743.32
40 05 19 00-1890	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,418.28	788.68
40 05 19 00-1891	EA	20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,954.12	935.26
40 05 19 00-1892	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,673.63	502.88
40 05 19 00-1893	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	4,797.54	526.60
40 05 19 00-1894	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,082.88	611.76
40 05 19 00-1895	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,256.11	637.23
40 05 19 00-1896	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,359.90	661.31
40 05 19 00-1897	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	5,688.09	774.73
40 05 19 00-1898	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,344.09	820.10
40 05 19 00-1899	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	7,773.26	912.75
40 05 19 00-1900	EA	24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,560.71	1,019.01
40 05 19 00-1901	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,592.14	724.47
40 05 19 00-1902	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,652.51	748.56
40 05 19 00-1903	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	8,991.55	861.98
40 05 19 00-1904	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	9,108.06	907.34
40 05 19 00-1905	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	9,593.96	1,053.91
40 05 19 00-1906	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,426.54	1,106.25
40 05 19 00-1907	EA	30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	14,148.08	1,437.79
40 05 19 00-1908	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,120.79	921.64
40 05 19 00-1909	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,151.99	942.24
40 05 19 00-1910	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,437.58	1,034.71
40 05 19 00-1911	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,547.71	1,076.59
40 05 19 00-1912	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,948.82	1,198.74
40 05 19 00-1913	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,403.45	1,245.85
40 05 19 00-1914	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,097.33	1,516.31
40 05 19 00-1915	EA	36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,843.37	1,657.64
40 05 19 00-1916	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,804.25	829.17
40 05 19 00-1917	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,840.73	853.24
40 05 19 00-1918	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,165.66	966.66
40 05 19 00-1919	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,259.37	1,012.03
40 05 19 00-1920	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,711.61	1,158.60
40 05 19 00-1921	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,174.18	1,210.95
40 05 19 00-1922	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,680.38	1,542.48
40 05 19 00-1923	EA	42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,033.60	1,715.22
40 05 19 00-1924	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,339.09	1,926.35
40 05 19 00-1925	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	23,858.96	966.66
40 05 19 00-1926	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,184.98	1,080.08
40 05 19 00-1927	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,278.69	1,125.45
40 05 19 00-1928	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,704.88	1,272.02
40 05 19 00-1929	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,167.42	1,324.37
40 05 19 00-1930	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,359.16	1,655.90

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers *(40 05 19 00-0001)*

40 05 19 00-1932	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	357.32	131.21
40 05 19 00-1933	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	451.37	140.98
40 05 19 00-1934	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	497.42	157.03
40 05 19 00-1935	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	602.48	163.33
40 05 19 00-1936	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	610.51	179.38
40 05 19 00-1937	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	710.00	189.15
40 05 19 00-1938	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	763.76	175.19
40 05 19 00-1939	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	791.34	191.24
40 05 19 00-1940	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	865.86	201.01
40 05 19 00-1941	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	973.52	223.35
40 05 19 00-1942	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,180.02	191.24
40 05 19 00-1943	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	948.37	201.01
40 05 19 00-1944	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,046.78	210.78
40 05 19 00-1945	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,151.17	233.12
40 05 19 00-1946	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,122.48	244.98
40 05 19 00-1947	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,394.57	214.62
40 05 19 00-1948	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,139.88	230.68
40 05 19 00-1949	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,080.86	240.45
40 05 19 00-1950	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,203.72	262.78
40 05 19 00-1951	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,482.82	274.29
40 05 19 00-1952	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,593.69	284.41
40 05 19 00-1953	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,762.88	262.08
40 05 19 00-1954	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,408.55	271.85
40 05 19 00-1955	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,546.61	294.19
40 05 19 00-1956	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,539.10	305.71
40 05 19 00-1957	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,765.05	315.82
40 05 19 00-1958	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,767.65	345.48
40 05 19 00-1959	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,811.92	310.94
40 05 19 00-1960	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,760.52	320.71
40 05 19 00-1961	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,906.17	343.04
40 05 19 00-1962	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,861.75	354.56
40 05 19 00-1963	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,140.90	364.68
40 05 19 00-1964	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,018.65	394.34
40 05 19 00-1965	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,478.79	425.75

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,366.14	352.12
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,668.14	374.45
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,866.90	385.97
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,943.03	396.09
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,617.76	425.75
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,150.64	457.16
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,322.12	452.10
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,512.01	513.00
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,703.99	544.41
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,065.72	593.26
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,592.09	624.67
40 05 19 00-1977	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,140.25	560.11
40 05 19 00-1978	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,450.58	591.51
40 05 19 00-1979	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,860.08	640.37
40 05 19 00-1980	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,459.19	671.78
40 05 19 00-1981	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,596.72	759.03
40 05 19 00-1982	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,400.68	729.36
40 05 19 00-1983	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	11,757.52	816.61
40 05 19 00-1984	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	13,284.80	863.72
40 05 19 00-1985	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	13,202.05	842.78
40 05 19 00-1986	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,815.10	930.03
40 05 19 00-1987	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,546.48	977.13
40 05 19 00-1988	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,523.90	1,034.71

40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers *(40 05 19 00-0001)*

40 05 19 00-1990	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	386.63	131.21
40 05 19 00-1991	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	485.03	140.98
40 05 19 00-1992	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	550.62	157.03
40 05 19 00-1993	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	602.48	163.33
40 05 19 00-1994	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	646.34	179.38
40 05 19 00-1995	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	743.65	189.15
40 05 19 00-1996	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	763.76	175.19
40 05 19 00-1997	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	830.43	191.24
40 05 19 00-1998	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	907.11	201.01
40 05 19 00-1999	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,045.18	223.35
40 05 19 00-2000	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	948.37	201.01
40 05 19 00-2001	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,026.15	210.78
40 05 19 00-2002	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,143.58	233.12
40 05 19 00-2003	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,305.96	244.98
40 05 19 00-2004	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,139.88	230.68
40 05 19 00-2005	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,236.11	240.45
40 05 19 00-2006	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,374.18	262.78
40 05 19 00-2007	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,516.48	274.29
40 05 19 00-2008	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,593.69	284.41
40 05 19 00-2009	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,408.55	271.85
40 05 19 00-2010	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,546.61	294.19
40 05 19 00-2011	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,688.92	305.71
40 05 19 00-2012	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,765.05	315.82
40 05 19 00-2013	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,934.84	345.48
40 05 19 00-2014	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,044.26	310.94
40 05 19 00-2015	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,872.34	320.71
40 05 19 00-2016	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,906.17	343.04
40 05 19 00-2017	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,079.97	354.56
40 05 19 00-2018	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,140.90	364.68
40 05 19 00-2019	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,340.01	394.34
40 05 19 00-2020	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,477.71	425.75
40 05 19 00-2021	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,589.79	352.12
40 05 19 00-2022	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,668.14	374.45
40 05 19 00-2023	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,730.10	385.97
40 05 19 00-2024	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,789.95	396.09
40 05 19 00-2025	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,992.32	425.75
40 05 19 00-2026	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,150.64	457.16
40 05 19 00-2027	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,322.12	452.10
40 05 19 00-2028	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,377.94	483.34
40 05 19 00-2029	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,254.61	513.00
40 05 19 00-2030	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,727.88	544.41
40 05 19 00-2031	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,065.72	593.26
40 05 19 00-2032	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,592.09	624.67
40 05 19 00-2033	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,188.02	560.11
40 05 19 00-2034	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,450.58	591.51
40 05 19 00-2035	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,836.20	640.37
40 05 19 00-2036	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,433.13	671.78
40 05 19 00-2037	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,572.83	759.03
40 05 19 00-2038	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	10,400.68	729.36
40 05 19 00-2039	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,826.18	816.61
40 05 19 00-2040	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,284.80	863.72
40 05 19 00-2041	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,815.10	930.03
40 05 19 00-2042	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	16,546.48	977.13
40 05 19 00-2043	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	18,523.90	1,034.71

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2044		**Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges** *(40 05 19 00-0001)*		
40 05 19 00-2045	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	137.14	45.37
40 05 19 00-2046	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	205.75	67.00
40 05 19 00-2047	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	295.35	79.56
40 05 19 00-2048	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	403.38	92.82
40 05 19 00-2049	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	518.90	108.88
40 05 19 00-2050	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	682.30	122.14
40 05 19 00-2051	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	814.05	139.59
40 05 19 00-2052	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,103.85	195.43
40 05 19 00-2053	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,463.41	244.29
40 05 19 00-2054	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,075.79	296.63
40 05 19 00-2055	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,914.13	345.48
40 05 19 00-2056	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	5,164.42	380.39
40 05 19 00-2057	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,261.50	418.78
40 05 19 00-2058	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	9,582.73	471.11

40 05 19 00-2059 Ductile Iron Bolt Packs *(40 05 19)*

Note: Labor installation is included with pipe fittings or valves.

40 05 19 00-2060	EA	4" Pipe Diameter, Ductile Iron Flange Bolt Pack	38.62	
		Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*10.81*	
		For Hot Dip Galvanized, Add	*15.45*	
40 05 19 00-2061	EA	6" Pipe Diameter, Ductile Iron Flange Bolt Pack	59.59	
		Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*16.69*	
		For Hot Dip Galvanized, Add	*23.84*	
40 05 19 00-2062	EA	8" Pipe Diameter, Ductile Iron Flange Bolt Pack	64.71	
		Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*18.12*	
		For Hot Dip Galvanized, Add	*25.88*	
40 05 19 00-2063	EA	10" Pipe Diameter, Ductile Iron Flange Bolt Pack	145.35	
		Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*40.70*	
		For Hot Dip Galvanized, Add	*58.14*	
40 05 19 00-2064	EA	12" Pipe Diameter, Ductile Iron Flange Bolt Pack	146.63	
		Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*41.06*	
		For Hot Dip Galvanized, Add	*58.65*	
40 05 19 00-2065	EA	14" Pipe Diameter, Ductile Iron Flange Bolt Pack	164.28	
		Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*46.00*	
		For Hot Dip Galvanized, Add	*65.71*	
40 05 19 00-2066	EA	16" Pipe Diameter, Ductile Iron Flange Bolt Pack	276.17	
		Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*77.33*	
		For Hot Dip Galvanized, Add	*110.47*	
40 05 19 00-2067	EA	18" Pipe Diameter, Ductile Iron Flange Bolt Pack	401.20	
		Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*112.34*	
		For Hot Dip Galvanized, Add	*160.48*	
40 05 19 00-2068	EA	20" Pipe Diameter, Ductile Iron Flange Bolt Pack	506.57	
		Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*141.84*	
		For Hot Dip Galvanized, Add	*202.63*	
40 05 19 00-2069	EA	24" Pipe Diameter, Ductile Iron Flange Bolt Pack	724.81	
		Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*202.95*	
		For Hot Dip Galvanized, Add	*289.92*	
40 05 19 00-2070	EA	30" Pipe Diameter, Ductile Iron Flange Bolt Pack	1,145.31	
		Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*320.69*	
		For Hot Dip Galvanized, Add	*458.12*	
40 05 19 00-2071	EA	36" Pipe Diameter, Ductile Iron Flange Bolt Pack	1,633.81	
		Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*457.47*	
		For Hot Dip Galvanized, Add	*653.52*	
40 05 19 00-2072	EA	42" Pipe Diameter, Ductile Iron Flange Bolt Pack	2,101.85	
		Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*588.52*	
		For Hot Dip Galvanized, Add	*840.74*	
40 05 19 00-2073	EA	48" Pipe Diameter, Ductile Iron Flange Bolt Pack	2,568.93	
		Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
		For Zinc Plated, Add	*719.30*	
		For Hot Dip Galvanized, Add	*1,027.57*	

40 05 19 00-2074 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 *(40 05 19)*

Note: Labor installation is included with pipe fittings or valves.

40 05 19 00-2075 Full Face Flange Styrene Butadiene (SBR) Gaskets *(40 05 19 00-2074)*

40 05 19 00-2076	EA	4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	6.52	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2077	EA	6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	8.30	
40 05 19 00-2078	EA	8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	11.26	
40 05 19 00-2079	EA	10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	13.04	
40 05 19 00-2080	EA	12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	14.22	
40 05 19 00-2081	EA	14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	23.70	
40 05 19 00-2082	EA	16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	29.03	
40 05 19 00-2083	EA	18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	30.81	
40 05 19 00-2084	EA	20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	47.40	
40 05 19 00-2085	EA	24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	50.96	
40 05 19 00-2086	EA	30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	65.77	
40 05 19 00-2087	EA	36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	75.25	
40 05 19 00-2088	EA	42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	80.58	
40 05 19 00-2089	EA	48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	88.28	

40 05 19 00-2090 Full Face Flange Nitrile Buna-N (NBR) Gaskets *(40 05 19 00-2074)*

Note: (Acrylonitrile Butadiene)

40 05 19 00-2091	EA	4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	20.14	
40 05 19 00-2092	EA	6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	28.44	
40 05 19 00-2093	EA	8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	43.84	
40 05 19 00-2094	EA	10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	47.99	
40 05 19 00-2095	EA	12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	51.55	
40 05 19 00-2096	EA	14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	97.17	
40 05 19 00-2097	EA	16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	119.68	
40 05 19 00-2098	EA	18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	120.28	
40 05 19 00-2099	EA	20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	125.02	
40 05 19 00-2100	EA	24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	132.13	
40 05 19 00-2101	EA	30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	146.35	
40 05 19 00-2102	EA	36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	161.16	
40 05 19 00-2103	EA	42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	229.30	
40 05 19 00-2104	EA	48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick	250.63	

40 05 19 00-2105 Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets *(40 05 19 00-2074)*

40 05 19 00-2106	EA	4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	17.78	
40 05 19 00-2107	EA	6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	23.11	
40 05 19 00-2108	EA	8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	31.40	
40 05 19 00-2109	EA	10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	36.74	
40 05 19 00-2110	EA	12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	40.88	
40 05 19 00-2111	EA	14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	67.54	
40 05 19 00-2112	EA	16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	81.17	
40 05 19 00-2113	EA	18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	81.76	
40 05 19 00-2114	EA	20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	83.54	
40 05 19 00-2115	EA	24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	97.17	
40 05 19 00-2116	EA	30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	119.09	
40 05 19 00-2117	EA	36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	135.68	
40 05 19 00-2118	EA	42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	194.34	
40 05 19 00-2119	EA	48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick	214.48	

40 05 19 00-2120 Full Face Flange Neoprene Gaskets *(40 05 19 00-2074)*

Note: (Polychloroprene)

40 05 19 00-2121	EA	4" Full Face Flange Neoprene Gasket, 1/8" Thick	20.74	
40 05 19 00-2122	EA	6" Full Face Flange Neoprene Gasket, 1/8" Thick	29.03	
40 05 19 00-2123	EA	8" Full Face Flange Neoprene Gasket, 1/8" Thick	44.44	
40 05 19 00-2124	EA	10" Full Face Flange Neoprene Gasket, 1/8" Thick	47.99	
40 05 19 00-2125	EA	12" Full Face Flange Neoprene Gasket, 1/8" Thick	51.55	
40 05 19 00-2126	EA	14" Full Face Flange Neoprene Gasket, 1/8" Thick	68.73	
40 05 19 00-2127	EA	16" Full Face Flange Neoprene Gasket, 1/8" Thick	120.87	
40 05 19 00-2128	EA	18" Full Face Flange Neoprene Gasket, 1/8" Thick	121.46	
40 05 19 00-2129	EA	20" Full Face Flange Neoprene Gasket, 1/8" Thick	128.57	
40 05 19 00-2130	EA	24" Full Face Flange Neoprene Gasket, 1/8" Thick	130.35	
40 05 19 00-2131	EA	30" Full Face Flange Neoprene Gasket, 1/8" Thick	141.61	
40 05 19 00-2132	EA	36" Full Face Flange Neoprene Gasket, 1/8" Thick	159.38	
40 05 19 00-2133	EA	42" Full Face Flange Neoprene Gasket, 1/8" Thick	231.08	
40 05 19 00-2134	EA	48" Full Face Flange Neoprene Gasket, 1/8" Thick	253.00	

40 05 19 00-2135 Full Face Flange FKM Gaskets *(40 05 19 00-2074)*

Note: (Fluoroelastomer Fluorel Viton®)

40 05 19 00-2136	EA	4" Full Face Flange FKM Gasket, 1/8" Thick	61.07	
40 05 19 00-2137	EA	6" Full Face Flange FKM Gasket, 1/8" Thick	90.93	
40 05 19 00-2138	EA	8" Full Face Flange FKM Gasket, 1/8" Thick	121.46	
40 05 19 00-2139	EA	10" Full Face Flange FKM Gasket, 1/8" Thick	146.57	
40 05 19 00-2140	EA	12" Full Face Flange FKM Gasket, 1/8" Thick	190.67	
40 05 19 00-2141	EA	14" Full Face Flange FKM Gasket, 1/8" Thick	348.77	
40 05 19 00-2142	EA	16" Full Face Flange FKM Gasket, 1/8" Thick	399.67	
40 05 19 00-2143	EA	18" Full Face Flange FKM Gasket, 1/8" Thick	418.67	
40 05 19 00-2144	EA	20" Full Face Flange FKM Gasket, 1/8" Thick	446.49	
40 05 19 00-2145	EA	24" Full Face Flange FKM Gasket, 1/8" Thick	617.48	
40 05 19 00-2146	EA	30" Full Face Flange FKM Gasket, 1/8" Thick	740.30	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2147	EA	36" Full Face Flange FKM Gasket, 1/8" Thick	781.01	
40 05 19 00-2148	EA	42" Full Face Flange FKM Gasket, 1/8" Thick	973.72	
40 05 19 00-2149	EA	48" Full Face Flange FKM Gasket, 1/8" Thick	1,020.54	

40 05 19 00-2150 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) *(40 05 19)*

40 05 19 00-2151	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	329.83	65.88
40 05 19 00-2152	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	456.07	80.42
40 05 19 00-2153	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	672.45	98.08
40 05 19 00-2154	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	921.69	119.64
40 05 19 00-2155	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,169.39	145.90
40 05 19 00-2156	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,871.67	178.01
40 05 19 00-2157	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,935.57	217.24
40 05 19 00-2158	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,036.25	264.97
40 05 19 00-2159	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,719.65	323.32
40 05 19 00-2160	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,148.81	394.37
40 05 19 00-2161	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	5,343.49	481.23
40 05 19 00-2162	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	7,927.64	587.02
40 05 19 00-2163	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	20,564.24	716.23
40 05 19 00-2164	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	26,261.93	873.74

40 05 23 Stainless Steel Process Pipe and Tubing *(40 05)*

40 05 23 23 300- and 400-Series Stainless Steel Process Pipe *(40 05 23)*

40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly *(40 05 23 23)*

Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.

40 05 23 23-0002	LF	1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	27.93	8.31
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	*2.92*	
		For Work In Restricted Working Space, Add	*5.01*	
40 05 23 23-0003	LF	3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	31.62	9.52
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	*3.06*	
		For Work In Restricted Working Space, Add	*5.95*	
40 05 23 23-0004	LF	1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	36.81	10.74
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	*3.59*	
		For Work In Restricted Working Space, Add	*6.90*	
40 05 23 23-0005	LF	1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	42.21	12.98
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	*4.53*	
		For Work In Restricted Working Space, Add	*7.44*	
40 05 23 23-0006	LF	1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	46.53	13.35
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	*5.19*	
		For Work In Restricted Working Space, Add	*7.97*	
40 05 23 23-0007	LF	2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	56.35	17.64
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	*6.33*	
		For Work In Restricted Working Space, Add	*9.61*	
40 05 23 23-0008	LF	2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	81.50	21.75
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	*10.88*	
		For Work In Restricted Working Space, Add	*11.90*	
40 05 23 23-0009	LF	3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	103.02	25.20
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	*14.17*	
		For Work In Restricted Working Space, Add	*14.56*	
40 05 23 23-0010	LF	4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	140.03	25.20
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Work In Restricted Working Space, Add	*18.47*	

40 05 23 23-0011 Stainless Steel Tubing And Fittings *(40 05 23 23)*

40 05 23 23-0012 Type 304 Tubing *(40 05 23 23-0011)*

40 05 23 23-0013 0.035" Wall *(40 05 23 23-0012)*

40 05 23 23-0014	LF	1/4", 0.035" Wall, Type 304, Stainless Steel Tubing	7.46	2.74
		For Work In Restricted Working Space, Add	*1.63*	
40 05 23 23-0015	LF	3/8", 0.035" Wall, Type 304, Stainless Steel Tubing	8.64	3.25
		For Work In Restricted Working Space, Add	*1.96*	
40 05 23 23-0016	LF	1/2", 0.035" Wall, Type 304, Stainless Steel Tubing	10.32	3.85
		For Work In Restricted Working Space, Add	*2.29*	
40 05 23 23-0017	LF	5/8", 0.035" Wall, Type 304, Stainless Steel Tubing	16.94	4.36
		For Work In Restricted Working Space, Add	*2.61*	
40 05 23 23-0018	LF	3/4", 0.035" Wall, Type 304, Stainless Steel Tubing	20.11	4.87
		For Work In Restricted Working Space, Add	*2.94*	
40 05 23 23-0019	LF	7/8", 0.035" Wall, Type 304, Stainless Steel Tubing	22.25	5.48
		For Work In Restricted Working Space, Add	*3.27*	
40 05 23 23-0020	LF	1", 0.035" Wall, Type 304, Stainless Steel Tubing	24.83	6.59
		For Work In Restricted Working Space, Add	*3.92*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0021		**0.049" Wall** *(40 05 23 23-0012)*		
40 05 23 23-0022	LF	1/4", 0.049" Wall, Type 304, Stainless Steel Tubing	12.51	3.25
		For Work In Restricted Working Space, Add	*1.96*	
40 05 23 23-0023	LF	3/8", 0.049" Wall, Type 304, Stainless Steel Tubing	13.93	3.85
		For Work In Restricted Working Space, Add	*2.29*	
40 05 23 23-0024	LF	1/2", 0.049" Wall, Type 304, Stainless Steel Tubing	16.76	4.36
		For Work In Restricted Working Space, Add	*2.61*	
40 05 23 23-0025	LF	5/8", 0.049" Wall, Type 304, Stainless Steel Tubing	21.21	5.48
		For Work In Restricted Working Space, Add	*3.27*	
40 05 23 23-0026	LF	3/4", 0.049" Wall, Type 304, Stainless Steel Tubing	24.25	6.59
		For Work In Restricted Working Space, Add	*3.92*	
40 05 23 23-0027	LF	7/8", 0.049" Wall, Type 304, Stainless Steel Tubing	27.23	7.60
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0028	LF	1", 0.049" Wall, Type 304, Stainless Steel Tubing	31.43	8.62
		For Work In Restricted Working Space, Add	*5.20*	
40 05 23 23-0029		**0.065" Wall** *(40 05 23 23-0012)*		
40 05 23 23-0030	LF	1/4", 0.065" Wall, Type 304, Stainless Steel Tubing	14.60	3.85
		For Work In Restricted Working Space, Add	*2.29*	
40 05 23 23-0031	LF	3/8", 0.065" Wall, Type 304, Stainless Steel Tubing	16.81	4.36
		For Work In Restricted Working Space, Add	*2.61*	
40 05 23 23-0032	LF	1/2", 0.065" Wall, Type 304, Stainless Steel Tubing	20.72	5.48
		For Work In Restricted Working Space, Add	*3.27*	
40 05 23 23-0033	LF	5/8", 0.065" Wall, Type 304, Stainless Steel Tubing	24.34	6.59
		For Work In Restricted Working Space, Add	*3.92*	
40 05 23 23-0034	LF	3/4", 0.065" Wall, Type 304, Stainless Steel Tubing	28.72	7.60
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0035	LF	7/8", 0.065" Wall, Type 304, Stainless Steel Tubing	33.00	8.62
		For Work In Restricted Working Space, Add	*5.20*	
40 05 23 23-0036	LF	1", 0.065" Wall, Type 304, Stainless Steel Tubing	37.20	9.73
		For Work In Restricted Working Space, Add	*5.85*	
40 05 23 23-0037		**Type 304 Tube Fittings** *(40 05 23 23-0011)*		
40 05 23 23-0038		**90 Degree Elbows** *(40 05 23 23-0037)*		
40 05 23 23-0039	EA	1/4", Type 304, Stainless Steel, 90 Degree Elbow	47.27	10.95
		For Work In Restricted Working Space, Add	*6.54*	
40 05 23 23-0040	EA	3/8", Type 304, Stainless Steel, 90 Degree Elbow	55.97	11.97
		For Work In Restricted Working Space, Add	*7.16*	
40 05 23 23-0041	EA	1/2", Type 304, Stainless Steel, 90 Degree Elbow	84.61	13.48
		For Work In Restricted Working Space, Add	*8.11*	
40 05 23 23-0042	EA	5/8", Type 304, Stainless Steel, 90 Degree Elbow	90.34	15.10
		For Work In Restricted Working Space, Add	*9.08*	
40 05 23 23-0043	EA	3/4", Type 304, Stainless Steel, 90 Degree Elbow	101.08	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0044	EA	7/8", Type 304, Stainless Steel, 90 Degree Elbow	138.36	18.15
		For Work In Restricted Working Space, Add	*10.86*	
40 05 23 23-0045	EA	1", Type 304, Stainless Steel, 90 Degree Elbow	176.30	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0046		**Union Tees** *(40 05 23 23-0037)*		
40 05 23 23-0047	EA	1/4", Type 304, Stainless Steel, Union Tee	75.06	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0048	EA	3/8", Type 304, Stainless Steel, Union Tee	91.16	18.15
		For Work In Restricted Working Space, Add	*10.86*	
40 05 23 23-0049	EA	1/2", Type 304, Stainless Steel, Union Tee	124.85	20.28
		For Work In Restricted Working Space, Add	*12.17*	
40 05 23 23-0050	EA	5/8", Type 304, Stainless Steel, Union Tee	134.26	23.02
		For Work In Restricted Working Space, Add	*13.83*	
40 05 23 23-0051	EA	3/4", Type 304, Stainless Steel, Union Tee	171.81	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0052	EA	7/8", Type 304, Stainless Steel, Union Tee	273.76	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0053	EA	1", Type 304, Stainless Steel, Union Tee	328.11	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0054		**Unions** *(40 05 23 23-0037)*		
40 05 23 23-0055	EA	1/4", Type 304, Stainless Steel, Union	71.69	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0056	EA	3/8", Type 304, Stainless Steel, Union	93.06	18.15
		For Work In Restricted Working Space, Add	*10.86*	
40 05 23 23-0057	EA	1/2", Type 304, Stainless Steel, Union	126.10	20.28
		For Work In Restricted Working Space, Add	*12.17*	
40 05 23 23-0058	EA	5/8", Type 304, Stainless Steel, Union	153.83	23.02
		For Work In Restricted Working Space, Add	*13.83*	
40 05 23 23-0059	EA	3/4", Type 304, Stainless Steel, Union	183.72	24.74
		For Work In Restricted Working Space, Add	*14.84*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0060	EA	7/8", Type 304, Stainless Steel, Union	283.27	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0061	EA	1", Type 304, Stainless Steel, Union	301.18	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0062		**Male Connectors** *(40 05 23 23-0037)*		
40 05 23 23-0063	EA	1/4" x 1/4", Type 304, Stainless Steel, Male Connection	35.20	10.95
		For Work In Restricted Working Space, Add	*6.54*	
40 05 23 23-0064	EA	3/8" x 3/8", Type 304, Stainless Steel, Male Connection	44.11	11.97
		For Work In Restricted Working Space, Add	*7.16*	
40 05 23 23-0065	EA	1/2" x 1/2", Type 304, Stainless Steel, Male Connection	57.33	13.48
		For Work In Restricted Working Space, Add	*8.11*	
40 05 23 23-0066	EA	5/8" x 5/8" Male Connection, Stainless Steel Type 304	64.62	15.10
		For Work In Restricted Working Space, Add	*9.08*	
40 05 23 23-0067	EA	3/4" x 3/4", Type 304, Stainless Steel, Male Connection	78.23	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0068	EA	7/8" x 7/8", Type 304, Stainless Steel, Male Connection	118.31	18.15
		For Work In Restricted Working Space, Add	*10.86*	
40 05 23 23-0069	EA	1" x 1", Type 304, Stainless Steel, Male Connection	123.71	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0070		**Type 304 Valves** *(40 05 23 23-0011)*		
40 05 23 23-0071		**Gate Valves** *(40 05 23 23-0070)*		
40 05 23 23-0072	EA	1/4" Gate Valve, Stainless Steel Type 304	164.14	16.33
		For Work In Restricted Working Space, Add	*8.86*	
40 05 23 23-0073	EA	3/8" Gate Valve, Stainless Steel Type 304	273.82	19.16
		For Work In Restricted Working Space, Add	*9.32*	
40 05 23 23-0074	EA	1/2" Gate Valve, Stainless Steel Type 304	285.89	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0075	EA	3/4" Gate Valve, Stainless Steel Type 304	317.16	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0076	EA	1" Gate Valve, Stainless Steel Type 304	294.10	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0077		**Globe Valves** *(40 05 23 23-0070)*		
40 05 23 23-0078	EA	1/4" Globe Valve, Stainless Steel Type 304	166.34	16.33
		For Work In Restricted Working Space, Add	*8.86*	
40 05 23 23-0079	EA	3/8" Globe Valve, Stainless Steel Type 304	111.61	19.16
		For Work In Restricted Working Space, Add	*9.32*	
40 05 23 23-0080	EA	1/2" Globe Valve, Stainless Steel Type 304	198.64	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0081	EA	3/4" Globe Valve, Stainless Steel Type 304	221.34	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0082	EA	1" Globe Valve, Stainless Steel Type 304	321.87	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0083		**Check Valves** *(40 05 23 23-0070)*		
40 05 23 23-0084	EA	1/4" Check Valve, Stainless Steel Type 304	231.16	16.33
		For Work In Restricted Working Space, Add	*8.86*	
40 05 23 23-0085	EA	3/8" Check Valve, Stainless Steel Type 304	232.72	19.16
		For Work In Restricted Working Space, Add	*9.32*	
40 05 23 23-0086	EA	1/2" Check Valve, Stainless Steel Type 304	155.86	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0087	EA	3/4" Check Valve, Stainless Steel Type 304	163.81	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0088	EA	1" Check Valve, Stainless Steel Type 304	183.02	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0089		**Plug Valves** *(40 05 23 23-0070)*		
40 05 23 23-0090	EA	1/2" Plug Valve, Stainless Steel Type 304	357.18	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0091	EA	3/4" Plug Valve, Stainless Steel Type 304	391.40	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0092	EA	1" Plug Valve, Stainless Steel Type 304	444.57	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0093	EA	1-1/2" Plug Valve, Stainless Steel Type 304	614.96	37.01
		For Work In Restricted Working Space, Add	*22.20*	
40 05 23 23-0094	EA	2" Plug Valve, Stainless Steel Type 304	801.55	50.70
		For Work In Restricted Working Space, Add	*30.42*	
40 05 23 23-0095		**Type 316 Tubing** *(40 05 23 23-0011)*		
40 05 23 23-0096		**0.035" Wall** *(40 05 23 23-0095)*		
40 05 23 23-0097	LF	1/4" Stainless Steel Tubing, Type 316, 0.035" Wall	7.76	2.74
		For Work In Restricted Working Space, Add	*1.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0098	LF	3/8" Stainless Steel Tubing, Type 316, 0.035" Wall	10.14	3.25
		For Work In Restricted Working Space, Add	*1.96*	
40 05 23 23-0099	LF	1/2" Stainless Steel Tubing, Type 316, 0.035" Wall	11.24	3.85
		For Work In Restricted Working Space, Add	*2.29*	
40 05 23 23-0100	LF	5/8" Stainless Steel Tubing, Type 316, 0.035" Wall	19.38	4.36
		For Work In Restricted Working Space, Add	*2.61*	
40 05 23 23-0101	LF	3/4" Stainless Steel Tubing, Type 316, 0.035" Wall	22.00	4.87
		For Work In Restricted Working Space, Add	*2.94*	
40 05 23 23-0102	LF	7/8" Stainless Steel Tubing, Type 316, 0.035" Wall	28.06	5.48
		For Work In Restricted Working Space, Add	*3.27*	
40 05 23 23-0103	LF	1" Stainless Steel Tubing, Type 316, 0.035" Wall	29.33	6.59
		For Work In Restricted Working Space, Add	*3.92*	

40 05 23 23-0104 0.049" Wall *(40 05 23 23-0095)*

40 05 23 23-0105	LF	1/4" Stainless Steel Tubing, Type 316, 0.049" Wall	13.81	3.25
		For Work In Restricted Working Space, Add	*1.96*	
40 05 23 23-0106	LF	3/8" Stainless Steel Tubing, Type 316, 0.049" Wall	15.29	3.85
		For Work In Restricted Working Space, Add	*2.29*	
40 05 23 23-0107	LF	1/2" Stainless Steel Tubing, Type 316, 0.049" Wall	18.04	4.36
		For Work In Restricted Working Space, Add	*2.61*	
40 05 23 23-0108	LF	5/8" Stainless Steel Tubing, Type 316, 0.049" Wall	23.58	5.48
		For Work In Restricted Working Space, Add	*3.27*	
40 05 23 23-0109	LF	3/4" Stainless Steel Tubing, Type 316, 0.049" Wall	27.19	6.59
		For Work In Restricted Working Space, Add	*3.92*	
40 05 23 23-0110	LF	7/8" Stainless Steel Tubing, Type 316, 0.049" Wall	34.79	7.60
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0111	LF	1" Stainless Steel Tubing, Type 316, 0.049" Wall	35.39	8.62
		For Work In Restricted Working Space, Add	*5.20*	

40 05 23 23-0112 0.065" Wall *(40 05 23 23-0095)*

40 05 23 23-0113	LF	1/4" Stainless Steel Tubing, Type 316, 0.065" Wall	16.15	3.85
		For Work In Restricted Working Space, Add	*2.29*	
40 05 23 23-0114	LF	3/8" Stainless Steel Tubing, Type 316, 0.065" Wall	17.99	4.36
		For Work In Restricted Working Space, Add	*2.61*	
40 05 23 23-0115	LF	1/2" Stainless Steel Tubing, Type 316, 0.065" Wall	22.58	5.48
		For Work In Restricted Working Space, Add	*3.27*	
40 05 23 23-0116	LF	5/8" Stainless Steel Tubing, Type 316, 0.065" Wall	26.90	6.59
		For Work In Restricted Working Space, Add	*3.92*	
40 05 23 23-0117	LF	3/4" Stainless Steel Tubing, Type 316, 0.065" Wall	32.65	7.60
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0118	LF	7/8" Stainless Steel Tubing, Type 316, 0.065" Wall	35.92	8.62
		For Work In Restricted Working Space, Add	*5.20*	
40 05 23 23-0119	LF	1" Stainless Steel Tubing, Type 316, 0.065" Wall	41.90	9.73
		For Work In Restricted Working Space, Add	*5.85*	

40 05 23 23-0120 Type 316 Tube Fittings *(40 05 23 23-0011)*

40 05 23 23-0121 90 Degree Elbows *(40 05 23 23-0120)*

40 05 23 23-0122	EA	1/4" 90 Degree Elbow, Stainless Steel Type 316	65.65	10.95
		For Work In Restricted Working Space, Add	*6.54*	
40 05 23 23-0123	EA	3/8" 90 Degree Elbow, Stainless Steel Type 316	79.15	11.97
		For Work In Restricted Working Space, Add	*7.16*	
40 05 23 23-0124	EA	1/2" 90 Degree Elbow, Stainless Steel Type 316	126.18	13.48
		For Work In Restricted Working Space, Add	*8.11*	
40 05 23 23-0125	EA	5/8" 90 Degree Elbow, Stainless Steel Type 316	133.71	15.10
		For Work In Restricted Working Space, Add	*9.08*	
40 05 23 23-0126	EA	3/4" 90 Degree Elbow, Stainless Steel Type 316	150.45	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0127	EA	7/8" 90 Degree Elbow, Stainless Steel Type 316	212.10	18.15
		For Work In Restricted Working Space, Add	*10.86*	
40 05 23 23-0128	EA	1" 90 Degree Elbow, Stainless Steel Type 316	272.43	21.60
		For Work In Restricted Working Space, Add	*12.95*	

40 05 23 23-0129 Union Tees *(40 05 23 23-0120)*

40 05 23 23-0130	EA	1/4" Union Tee, Stainless Steel Type 316	105.64	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0131	EA	3/8" Union Tee, Stainless Steel Type 316	130.83	18.15
		For Work In Restricted Working Space, Add	*10.86*	
40 05 23 23-0132	EA	1/2" Union Tee, Stainless Steel Type 316	185.71	20.28
		For Work In Restricted Working Space, Add	*12.17*	
40 05 23 23-0133	EA	5/8" Union Tee, Stainless Steel Type 316	197.91	23.02
		For Work In Restricted Working Space, Add	*13.83*	
40 05 23 23-0134	EA	3/4" Union Tee, Stainless Steel Type 316	260.15	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0135	EA	7/8" Union Tee, Stainless Steel Type 316	431.85	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0136	EA	1" Union Tee, Stainless Steel Type 316	517.77	32.75
		For Work In Restricted Working Space, Add	*19.62*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0137		**Unions** *(40 05 23 23-0120)*		
40 05 23 23-0138	EA	1/4" Union, Stainless Steel Type 316	67.03	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0139	EA	3/8" Union, Stainless Steel Type 316	86.26	18.15
		For Work In Restricted Working Space, Add	*10.86*	
40 05 23 23-0140	EA	1/2" Union, Stainless Steel Type 316	115.87	20.28
		For Work In Restricted Working Space, Add	*12.17*	
40 05 23 23-0141	EA	5/8" Union, Stainless Steel Type 316	140.95	23.02
		For Work In Restricted Working Space, Add	*13.83*	
40 05 23 23-0142	EA	3/4" Union, Stainless Steel Type 316	167.67	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0143	EA	7/8" Union, Stainless Steel Type 316	255.96	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0144	EA	1" Union, Stainless Steel Type 316	273.00	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0145		**Male Connectors** *(40 05 23 23-0120)*		
40 05 23 23-0146	EA	1/4" x 1/4" Male Connector, Stainless Steel Type 316	44.68	10.95
		For Work In Restricted Working Space, Add	*6.54*	
40 05 23 23-0147	EA	3/8" x 3/8" Male Connector, Stainless Steel Type 316	58.42	11.97
		For Work In Restricted Working Space, Add	*7.16*	
40 05 23 23-0148	EA	1/2" x 1/2" Male Connector, Stainless Steel Type 316	78.75	13.48
		For Work In Restricted Working Space, Add	*8.11*	
40 05 23 23-0149	EA	5/8" x 5/8" Male Connector, Stainless Steel Type 316	88.90	15.10
		For Work In Restricted Working Space, Add	*9.08*	
40 05 23 23-0150	EA	3/4" x 3/4" Male Connector, Stainless Steel Type 316	110.41	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0151	EA	7/8" x 7/8" Male Connector, Stainless Steel Type 316	176.35	18.15
		For Work In Restricted Working Space, Add	*10.86*	
40 05 23 23-0152	EA	1" x 1" Male Connector, Stainless Steel Type 316	180.67	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0153		**Type 316 Valves** *(40 05 23 23-0011)*		
40 05 23 23-0154		**Gate Valves** *(40 05 23 23-0153)*		
40 05 23 23-0155	EA	1/4" Gate Valve, Stainless Steel Type 316	207.60	16.33
		For Work In Restricted Working Space, Add	*8.86*	
40 05 23 23-0156	EA	3/8" Gate Valve, Stainless Steel Type 316	352.19	19.16
		For Work In Restricted Working Space, Add	*9.32*	
40 05 23 23-0157	EA	1/2" Gate Valve, Stainless Steel Type 316	364.26	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0158	EA	3/4" Gate Valve, Stainless Steel Type 316	403.59	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0159	EA	1" Gate Valve, Stainless Steel Type 316	367.94	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0160	EA	1-1/4" Gate Valve, Stainless Steel Type 316	502.73	33.97
		For Work In Restricted Working Space, Add	*20.38*	
40 05 23 23-0161	EA	1-1/2" Gate Valve, Stainless Steel Type 316	803.32	37.01
		For Work In Restricted Working Space, Add	*22.20*	
40 05 23 23-0162	EA	2" Gate Valve, Stainless Steel Type 316	957.12	50.70
		For Work In Restricted Working Space, Add	*30.42*	
40 05 23 23-0163	EA	2-1/2" Gate Valve, Stainless Steel Type 316	1,442.84	162.33
		For Work In Restricted Working Space, Add	*97.37*	
40 05 23 23-0164		**Globe Valves** *(40 05 23 23-0153)*		
40 05 23 23-0165	EA	1/4" Globe Valve, Stainless Steel Type 316	210.52	16.33
		For Work In Restricted Working Space, Add	*8.86*	
40 05 23 23-0166	EA	3/8" Globe Valve, Stainless Steel Type 316	137.61	19.16
		For Work In Restricted Working Space, Add	*9.32*	
40 05 23 23-0167	EA	1/2" Globe Valve, Stainless Steel Type 316	248.85	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0168	EA	3/4" Globe Valve, Stainless Steel Type 316	276.83	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0169	EA	1" Globe Valve, Stainless Steel Type 316	404.67	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0170	EA	1-1/4" Globe Valve, Stainless Steel Type 316	503.63	33.76
		For Work In Restricted Working Space, Add	*20.23*	
40 05 23 23-0171	EA	1-1/2" Globe Valve, Stainless Steel Type 316	832.49	37.01
		For Work In Restricted Working Space, Add	*22.20*	
40 05 23 23-0172	EA	2" Globe Valve, Stainless Steel Type 316	986.30	50.70
		For Work In Restricted Working Space, Add	*30.42*	
40 05 23 23-0173	EA	2-1/2" Globe Valve, Stainless Steel Type 316	1,258.08	162.33
		For Work In Restricted Working Space, Add	*97.37*	
40 05 23 23-0174		**Check Valves** *(40 05 23 23-0153)*		
40 05 23 23-0175	EA	1/4" Check Valve, Stainless Steel Type 316	296.26	16.33
		For Work In Restricted Working Space, Add	*8.86*	
40 05 23 23-0176	EA	3/8" Check Valve, Stainless Steel Type 316	297.82	19.16
		For Work In Restricted Working Space, Add	*9.32*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0177	EA	1/2" Check Valve, Stainless Steel Type 316	192.25	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0178	EA	3/4" Check Valve, Stainless Steel Type 316	200.72	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0179	EA	1" Check Valve, Stainless Steel Type 316	221.00	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0180	EA	1-1/4" Check Valve, Stainless Steel Type 316	303.06	33.97
		For Work In Restricted Working Space, Add	*20.38*	
40 05 23 23-0181	EA	1-1/2" Check Valve, Stainless Steel Type 316	667.18	37.01
		For Work In Restricted Working Space, Add	*22.20*	
40 05 23 23-0182	EA	2" Check Valve, Stainless Steel Type 316	811.26	50.70
		For Work In Restricted Working Space, Add	*30.42*	
40 05 23 23-0183	EA	2-1/2" Check Valve, Stainless Steel Type 316	1,621.11	162.33
		For Work In Restricted Working Space, Add	*97.37*	

40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined *(40 05 23 23-0153)*

40 05 23 23-0185	EA	1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	319.59	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0186	EA	3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	373.23	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0187	EA	1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	476.28	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0188	EA	1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	755.64	37.01
		For Work In Restricted Working Space, Add	*22.20*	
40 05 23 23-0189	EA	2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,055.68	50.70
		For Work In Restricted Working Space, Add	*30.42*	

40 05 23 23-0190 Diaphragm Valves, Teflon Lined *(40 05 23 23-0153)*

40 05 23 23-0191	EA	1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	421.83	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0192	EA	3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	484.94	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0193	EA	1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	587.99	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0194	EA	1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	912.79	37.01
		For Work In Restricted Working Space, Add	*22.20*	
40 05 23 23-0195	EA	2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	1,243.12	50.70
		For Work In Restricted Working Space, Add	*30.42*	

40 05 23 23-0196 Strainers *(40 05 23 23-0153)*

40 05 23 23-0197	EA	1/2" Strainer, Stainless Steel Type 316	422.82	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0198	EA	3/4" Strainer, Stainless Steel Type 316	505.80	24.85
		For Work In Restricted Working Space, Add	*14.91*	
40 05 23 23-0199	EA	1" Strainer, Stainless Steel Type 316	661.89	32.95
		For Work In Restricted Working Space, Add	*19.78*	
40 05 23 23-0200	EA	1-1/4" Strainer, Stainless Steel Type 316	820.40	33.97
		For Work In Restricted Working Space, Add	*20.38*	
40 05 23 23-0201	EA	1-1/2" Strainer, Stainless Steel Type 316	1,028.54	37.01
		For Work In Restricted Working Space, Add	*22.21*	
40 05 23 23-0202	EA	2" Strainer, Stainless Steel Type 316	1,482.72	50.70
		For Work In Restricted Working Space, Add	*30.42*	
40 05 23 23-0203	EA	2-1/2" Strainer, Stainless Steel Type 316	2,037.20	67.43
		For Work In Restricted Working Space, Add	*40.46*	
40 05 23 23-0204	EA	3" Strainer, Stainless Steel Type 316	2,967.40	101.40
		For Work In Restricted Working Space, Add	*60.84*	
40 05 23 23-0205	EA	4" Strainer, Stainless Steel Type 316	3,805.18	162.23
		For Work In Restricted Working Space, Add	*97.33*	

40 05 23 23-0206 Plug Valves *(40 05 23 23-0153)*

40 05 23 23-0207	EA	1/2" Plug Valve, Stainless Steel Type 316	450.26	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0208	EA	3/4" Plug Valve, Stainless Steel Type 316	492.76	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0209	EA	1" Plug Valve, Stainless Steel Type 316	556.96	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0210	EA	1-1/2" Plug Valve, Stainless Steel Type 316	775.31	37.01
		For Work In Restricted Working Space, Add	*22.20*	
40 05 23 23-0211	EA	2" Plug Valve, Stainless Steel Type 316	1,009.09	50.70
		For Work In Restricted Working Space, Add	*30.42*	

40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place *(40 05 23 23-0011)*

Note: For use when connecting pipe to an existing in-place system.

40 05 23 23-0213	EA	Cut And Prepare 1/2" Stainless Steel Pipe	20.27
40 05 23 23-0214	EA	Cut And Prepare 3/4" Stainless Steel Pipe	21.89
40 05 23 23-0215	EA	Cut And Prepare 1" Stainless Steel Pipe	24.63
40 05 23 23-0216	EA	Cut And Prepare 1-1/4" Stainless Steel Pipe	25.84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0217	EA	Cut And Prepare 1-1/2" Stainless Steel Pipe	27.36	
40 05 23 23-0218	EA	Cut And Prepare 2" Stainless Steel Pipe	29.39	
40 05 23 23-0219	EA	Cut And Prepare 2-1/2" Stainless Steel Pipe	31.42	
40 05 23 23-0220	EA	Cut And Prepare 3" Stainless Steel Pipe	34.46	
40 05 23 23-0221	EA	Cut And Prepare 4" Stainless Steel Pipe	37.50	
40 05 23 23-0222	EA	Cut And Prepare 6" Stainless Steel Pipe	40.54	
40 05 23 23-0223	EA	Cut And Prepare 8" Stainless Steel Pipe	43.58	
40 05 23 23-0224	EA	Cut And Prepare 10" Stainless Steel Pipe	47.63	
40 05 23 23-0225	EA	Cut And Prepare 12" Stainless Steel Pipe	51.68	
40 05 23 23-0226	EA	Cut And Prepare 14" Stainless Steel Pipe	55.74	
40 05 23 23-0227	EA	Cut And Prepare 16" Stainless Steel Pipe	59.80	
40 05 23 23-0228	EA	Cut And Prepare 18" Stainless Steel Pipe	62.83	
40 05 23 23-0229	EA	Cut And Prepare 20" Stainless Steel Pipe	65.87	
40 05 23 23-0230	EA	Cut And Prepare 24" Stainless Steel Pipe	69.93	

40 05 23 23-0231 Stainless Steel Pipe And Fittings *(40 05 23 23)*

40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings *(40 05 23 23-0231)*

40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe *(40 05 23 23-0232)*

40 05 23 23-0234	LF	1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	14.23	4.36
		For Work In Restricted Working Space, Add	*2.61*	
40 05 23 23-0235	LF	3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	17.55	5.48
		For Work In Restricted Working Space, Add	*3.27*	
40 05 23 23-0236	LF	1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	21.53	6.59
		For Work In Restricted Working Space, Add	*3.92*	
40 05 23 23-0237	LF	1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	25.80	7.60
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0238	LF	1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	29.81	8.62
		For Work In Restricted Working Space, Add	*5.20*	
40 05 23 23-0239	LF	2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	38.04	10.95
		For Work In Restricted Working Space, Add	*6.54*	
40 05 23 23-0240	LF	2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	51.07	12.98
		For Work In Restricted Working Space, Add	*7.80*	
40 05 23 23-0241	LF	3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	64.19	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0242	LF	4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	86.74	21.60
		For Work In Restricted Working Space, Add	*12.95*	

40 05 23 23-0243 150#, Type 304 Stainless Steel Threaded 90 Degree Elbows *(40 05 23 23-0232)*

40 05 23 23-0244	EA	1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	35.14	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0245	EA	3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	46.63	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0246	EA	1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	59.87	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0247	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	83.77	37.52
		For Work In Restricted Working Space, Add	*22.53*	
40 05 23 23-0248	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	99.70	44.10
		For Work In Restricted Working Space, Add	*26.45*	
40 05 23 23-0249	EA	2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	121.37	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0250	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	202.32	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0251	EA	3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	260.50	109.00
		For Work In Restricted Working Space, Add	*65.42*	
40 05 23 23-0252	EA	4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	353.24	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-0253 150#, Type 304 Stainless Steel Threaded 45 Degree Elbows *(40 05 23 23-0232)*

40 05 23 23-0254	EA	1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	35.71	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0255	EA	3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	47.53	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0256	EA	1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	60.15	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0257	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	83.66	37.52
		For Work In Restricted Working Space, Add	*22.53*	
40 05 23 23-0258	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	98.36	44.10
		For Work In Restricted Working Space, Add	*26.45*	
40 05 23 23-0259	EA	2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	121.05	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0260	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	208.39	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0261	EA	3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	272.35	109.00
		For Work In Restricted Working Space, Add	*65.42*	
40 05 23 23-0262	EA	4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	367.03	135.16
		For Work In Restricted Working Space, Add	*81.12*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

40 05 23 23-0263 150#, Type 304 Stainless Steel Threaded Tees *(40 05 23 23-0232)*

40 05 23 23-0264	EA	1/2", 150#, Type 304 Stainless Steel Threaded Tee	52.77	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0265	EA	3/4", 150#, Type 304 Stainless Steel Threaded Tee	70.65	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0266	EA	1", 150#, Type 304 Stainless Steel Threaded Tee	87.79	40.56
		For Work In Restricted Working Space, Add	*24.33*	
40 05 23 23-0267	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded Tee	125.94	56.38
		For Work In Restricted Working Space, Add	*33.80*	
40 05 23 23-0268	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded Tee	143.25	63.37
		For Work In Restricted Working Space, Add	*38.02*	
40 05 23 23-0269	EA	2", 150#, Type 304 Stainless Steel Threaded Tee	190.19	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0270	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded Tee	289.79	122.18
		For Work In Restricted Working Space, Add	*73.30*	
40 05 23 23-0271	EA	3", 150#, Type 304 Stainless Steel Threaded Tee	392.59	163.55
		For Work In Restricted Working Space, Add	*98.12*	
40 05 23 23-0272	EA	4", 150#, Type 304 Stainless Steel Threaded Tee	523.91	202.79
		For Work In Restricted Working Space, Add	*121.67*	

40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers *(40 05 23 23-0232)*

40 05 23 23-0274	EA	3/4", 150#, Type 304 Stainless Steel Threaded Reducer	46.21	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0275	EA	1", 150#, Type 304 Stainless Steel Threaded Reducer	58.98	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0276	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer	81.23	37.52
		For Work In Restricted Working Space, Add	*22.53*	
40 05 23 23-0277	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer	96.97	44.10
		For Work In Restricted Working Space, Add	*26.45*	
40 05 23 23-0278	EA	2", 150#, Type 304 Stainless Steel Threaded Reducer	121.43	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0279	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer	200.52	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0280	EA	3", 150#, Type 304 Stainless Steel Threaded Reducer	262.95	109.00
		For Work In Restricted Working Space, Add	*65.42*	
40 05 23 23-0281	EA	4", 150#, Type 304 Stainless Steel Threaded Reducer	344.77	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps *(40 05 23 23-0232)*

40 05 23 23-0283	EA	1/2", 150#, Type 304 Stainless Steel Threaded Cap	17.98	8.21
		For Work In Restricted Working Space, Add	*4.91*	
40 05 23 23-0284	EA	3/4", 150#, Type 304 Stainless Steel Threaded Cap	23.83	10.95
		For Work In Restricted Working Space, Add	*6.54*	
40 05 23 23-0285	EA	1", 150#, Type 304 Stainless Steel Threaded Cap	30.07	13.48
		For Work In Restricted Working Space, Add	*8.11*	
40 05 23 23-0286	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded Cap	43.78	19.16
		For Work In Restricted Working Space, Add	*11.48*	
40 05 23 23-0287	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded Cap	50.37	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0288	EA	2", 150#, Type 304 Stainless Steel Threaded Cap	64.01	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0289	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded Cap	97.73	40.56
		For Work In Restricted Working Space, Add	*24.33*	
40 05 23 23-0290	EA	3", 150#, Type 304 Stainless Steel Threaded Cap	129.70	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0291	EA	4", 150#, Type 304 Stainless Steel Threaded Cap	174.06	67.63
		For Work In Restricted Working Space, Add	*40.56*	

40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions *(40 05 23 23-0232)*

40 05 23 23-0293	EA	1/2", 150#, Type 304 Stainless Steel Threaded Union	56.29	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0294	EA	3/4", 150#, Type 304 Stainless Steel Threaded Union	74.07	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0295	EA	1", 150#, Type 304 Stainless Steel Threaded Union	94.18	40.56
		For Work In Restricted Working Space, Add	*24.33*	
40 05 23 23-0296	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded Union	135.35	56.38
		For Work In Restricted Working Space, Add	*33.80*	
40 05 23 23-0297	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded Union	152.37	63.37
		For Work In Restricted Working Space, Add	*38.02*	
40 05 23 23-0298	EA	2", 150#, Type 304 Stainless Steel Threaded Union	199.70	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0299	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded Union	336.65	126.74
		For Work In Restricted Working Space, Add	*76.05*	
40 05 23 23-0300	EA	3", 150#, Type 304 Stainless Steel Threaded Union	431.82	163.55
		For Work In Restricted Working Space, Add	*98.13*	
40 05 23 23-0301	EA	4", 150#, Type 304 Stainless Steel Threaded Union	440.41	135.21
		For Work In Restricted Working Space, Add	*81.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0302		**150#, Type 304 Stainless Steel Threaded Couplings** *(40 05 23 23-0232)*		
40 05 23 23-0303	EA	1/2", 150#, Type 304 Stainless Steel Threaded Coupling	34.91	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0304	EA	3/4", 150#, Type 304 Stainless Steel Threaded Coupling	46.32	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0305	EA	1", 150#, Type 304 Stainless Steel Threaded Coupling	59.62	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0306	EA	1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling	82.77	37.52
		For Work In Restricted Working Space, Add	*22.53*	
40 05 23 23-0307	EA	1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling	97.27	44.10
		For Work In Restricted Working Space, Add	*26.45*	
40 05 23 23-0308	EA	2", 150#, Type 304 Stainless Steel Threaded Coupling	119.56	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0309	EA	2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling	197.14	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0310	EA	3", 150#, Type 304 Stainless Steel Threaded Coupling	254.43	109.00
		For Work In Restricted Working Space, Add	*65.42*	
40 05 23 23-0311	EA	4", 150#, Type 304 Stainless Steel Threaded Coupling	326.93	135.16
		For Work In Restricted Working Space, Add	*81.12*	
40 05 23 23-0312		**Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings** *(40 05 23 23-0231)*		
40 05 23 23-0313		**Type 316, Schedule 40 Stainless Steel Threaded Pipe** *(40 05 23 23-0312)*		
40 05 23 23-0314	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	17.16	4.36
		For Work In Restricted Working Space, Add	*2.61*	
40 05 23 23-0315	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	20.43	5.48
		For Work In Restricted Working Space, Add	*3.27*	
40 05 23 23-0316	LF	1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	25.67	6.59
		For Work In Restricted Working Space, Add	*3.92*	
40 05 23 23-0317	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	31.22	7.60
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0318	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	36.23	8.62
		For Work In Restricted Working Space, Add	*5.20*	
40 05 23 23-0319	LF	2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	46.63	10.95
		For Work In Restricted Working Space, Add	*6.54*	
40 05 23 23-0320	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	63.08	12.98
		For Work In Restricted Working Space, Add	*7.80*	
40 05 23 23-0321	LF	3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	82.11	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0322	LF	4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	110.05	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0323		**150#, Type 316 Stainless Steel Threaded 90 Degree Elbows** *(40 05 23 23-0312)*		
40 05 23 23-0324	EA	1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	35.88	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0325	EA	3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	47.72	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0326	EA	1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	60.54	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0327	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	84.97	37.52
		For Work In Restricted Working Space, Add	*22.53*	
40 05 23 23-0328	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	101.31	44.10
		For Work In Restricted Working Space, Add	*26.45*	
40 05 23 23-0329	EA	2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	123.35	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0330	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	205.48	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0331	EA	3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	268.26	109.00
		For Work In Restricted Working Space, Add	*65.42*	
40 05 23 23-0332	EA	4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow	362.66	135.16
		For Work In Restricted Working Space, Add	*81.12*	
40 05 23 23-0333		**150#, Type 316 Stainless Steel Threaded 45 Degree Elbows** *(40 05 23 23-0312)*		
40 05 23 23-0334	EA	1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	36.47	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0335	EA	3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	48.10	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0336	EA	1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	60.98	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0337	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	84.85	37.52
		For Work In Restricted Working Space, Add	*22.53*	
40 05 23 23-0338	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	99.75	44.10
		For Work In Restricted Working Space, Add	*26.45*	
40 05 23 23-0339	EA	2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	122.91	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0340	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	211.37	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0341	EA	3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	279.21	109.00
		For Work In Restricted Working Space, Add	*65.42*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0342	EA	4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	385.55	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees *(40 05 23 23-0312)*

40 05 23 23-0344	EA	1/2", 150#, Type 316 Stainless Steel Threaded Tee	53.55	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0345	EA	3/4", 150#, Type 316 Stainless Steel Threaded Tee	71.45	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0346	EA	1", 150#, Type 316 Stainless Steel Threaded Tee	88.68	40.56
		For Work In Restricted Working Space, Add	*24.33*	
40 05 23 23-0347	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Tee	127.75	56.38
		For Work In Restricted Working Space, Add	*33.80*	
40 05 23 23-0348	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Tee	145.04	63.37
		For Work In Restricted Working Space, Add	*38.02*	
40 05 23 23-0349	EA	2", 150#, Type 316 Stainless Steel Threaded Tee	192.55	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0350	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Tee	299.41	122.18
		For Work In Restricted Working Space, Add	*73.30*	
40 05 23 23-0351	EA	3", 150#, Type 316 Stainless Steel Threaded Tee	405.72	163.55
		For Work In Restricted Working Space, Add	*98.12*	
40 05 23 23-0352	EA	4", 150#, Type 316 Stainless Steel Threaded Tee	533.69	202.79
		For Work In Restricted Working Space, Add	*121.67*	

40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers *(40 05 23 23-0312)*

40 05 23 23-0354	EA	3/4", 150#, Type 316 Stainless Steel Threaded Reducer	46.88	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0355	EA	1", 150#, Type 316 Stainless Steel Threaded Reducer	60.96	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0356	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer	81.60	37.52
		For Work In Restricted Working Space, Add	*22.53*	
40 05 23 23-0357	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer	98.92	44.10
		For Work In Restricted Working Space, Add	*26.45*	
40 05 23 23-0358	EA	2", 150#, Type 316 Stainless Steel Threaded Reducer	124.84	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0359	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer	208.29	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0360	EA	3", 150#, Type 316 Stainless Steel Threaded Reducer	271.53	109.00
		For Work In Restricted Working Space, Add	*65.42*	
40 05 23 23-0361	EA	4", 150#, Type 316 Stainless Steel Threaded Reducer	359.07	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps *(40 05 23 23-0312)*

40 05 23 23-0363	EA	1/2", 150#, Type 316 Stainless Steel Threaded Cap	18.42	8.21
		For Work In Restricted Working Space, Add	*4.91*	
40 05 23 23-0364	EA	3/4", 150#, Type 316 Stainless Steel Threaded Cap	24.16	10.95
		For Work In Restricted Working Space, Add	*6.54*	
40 05 23 23-0365	EA	1", 150#, Type 316 Stainless Steel Threaded Cap	30.65	13.48
		For Work In Restricted Working Space, Add	*8.11*	
40 05 23 23-0366	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Cap	45.38	19.16
		For Work In Restricted Working Space, Add	*11.48*	
40 05 23 23-0367	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Cap	52.28	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0368	EA	2", 150#, Type 316 Stainless Steel Threaded Cap	66.49	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0369	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Cap	101.83	40.56
		For Work In Restricted Working Space, Add	*24.33*	
40 05 23 23-0370	EA	3", 150#, Type 316 Stainless Steel Threaded Cap	133.86	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0371	EA	4", 150#, Type 316 Stainless Steel Threaded Cap	182.32	67.63
		For Work In Restricted Working Space, Add	*40.56*	

40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions *(40 05 23 23-0312)*

40 05 23 23-0373	EA	1/2", 150#, Type 316 Stainless Steel Threaded Union	57.23	24.74
		For Work In Restricted Working Space, Add	*14.84*	
40 05 23 23-0374	EA	3/4", 150#, Type 316 Stainless Steel Threaded Union	77.61	32.75
		For Work In Restricted Working Space, Add	*19.62*	
40 05 23 23-0375	EA	1", 150#, Type 316 Stainless Steel Threaded Union	95.98	40.56
		For Work In Restricted Working Space, Add	*24.33*	
40 05 23 23-0376	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Union	138.39	56.38
		For Work In Restricted Working Space, Add	*33.80*	
40 05 23 23-0377	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Union	155.93	63.37
		For Work In Restricted Working Space, Add	*38.02*	
40 05 23 23-0378	EA	2", 150#, Type 316 Stainless Steel Threaded Union	203.81	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0379	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Union	342.97	126.74
		For Work In Restricted Working Space, Add	*76.05*	
40 05 23 23-0380	EA	3", 150#, Type 316 Stainless Steel Threaded Union	451.51	163.55
		For Work In Restricted Working Space, Add	*98.13*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0381	EA	4", 150#, Type 316 Stainless Steel Threaded Union	482.38	135.21
		For Work In Restricted Working Space, Add	*81.13*	

40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings *(40 05 23 23-0312)*

40 05 23 23-0383	EA	1/2", 150#, Type 316 Stainless Steel Threaded Coupling	36.39	16.33
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-0384	EA	3/4", 150#, Type 316 Stainless Steel Threaded Coupling	47.00	21.60
		For Work In Restricted Working Space, Add	*12.95*	
40 05 23 23-0385	EA	1", 150#, Type 316 Stainless Steel Threaded Coupling	60.28	27.38
		For Work In Restricted Working Space, Add	*16.44*	
40 05 23 23-0386	EA	1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling	83.82	37.52
		For Work In Restricted Working Space, Add	*22.53*	
40 05 23 23-0387	EA	1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling	98.51	44.10
		For Work In Restricted Working Space, Add	*26.45*	
40 05 23 23-0388	EA	2", 150#, Type 316 Stainless Steel Threaded Coupling	121.29	53.33
		For Work In Restricted Working Space, Add	*32.02*	
40 05 23 23-0389	EA	2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling	203.19	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-0390	EA	3", 150#, Type 316 Stainless Steel Threaded Coupling	262.24	109.00
		For Work In Restricted Working Space, Add	*65.42*	
40 05 23 23-0391	EA	4", 150#, Type 316 Stainless Steel Threaded Coupling	338.63	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings *(40 05 23 23-0231)*

40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe *(40 05 23 23-0392)*

40 05 23 23-0394	LF	1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	15.68	4.26
		For Work In Restricted Working Space, Add	*2.56*	
40 05 23 23-0395	LF	3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	18.70	5.21
		For Work In Restricted Working Space, Add	*3.12*	
40 05 23 23-0396	LF	1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	24.55	6.16
		For Work In Restricted Working Space, Add	*3.66*	
40 05 23 23-0397	LF	1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	30.03	7.67
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0398	LF	1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	33.44	8.61
		For Work In Restricted Working Space, Add	*5.16*	
40 05 23 23-0399	LF	2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	41.37	10.70
		For Work In Restricted Working Space, Add	*6.40*	
40 05 23 23-0400	LF	2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	49.29	12.21
		For Work In Restricted Working Space, Add	*7.31*	
40 05 23 23-0401	LF	3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	57.99	13.73
		For Work In Restricted Working Space, Add	*8.23*	
40 05 23 23-0402	LF	4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	72.55	16.28
		For Work In Restricted Working Space, Add	*9.74*	
40 05 23 23-0403	LF	6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	105.21	21.40
		For Work In Restricted Working Space, Add	*12.79*	
40 05 23 23-0404	LF	8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	178.09	38.41
		For Work In Restricted Working Space, Add	*24.69*	
40 05 23 23-0405	LF	10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	225.42	42.24
		For Work In Restricted Working Space, Add	*27.15*	
40 05 23 23-0406	LF	12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	268.72	46.96
		For Work In Restricted Working Space, Add	*30.17*	
40 05 23 23-0407	LF	14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	329.13	52.80
		For Work In Restricted Working Space, Add	*33.95*	
40 05 23 23-0408	LF	16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	363.05	60.35
		For Work In Restricted Working Space, Add	*38.79*	
40 05 23 23-0409	LF	18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	407.60	70.40
		For Work In Restricted Working Space, Add	*45.26*	
40 05 23 23-0410	LF	20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	561.93	84.48
		For Work In Restricted Working Space, Add	*54.31*	
40 05 23 23-0411	LF	24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	731.46	105.60
		For Work In Restricted Working Space, Add	*67.89*	

40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow *(40 05 23 23-0392)*

40 05 23 23-0413	EA	1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	110.90	48.56
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-0414	EA	3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	117.54	51.55
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-0415	EA	1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	129.41	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0416	EA	1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	141.18	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0417	EA	1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	155.92	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0418	EA	2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	174.03	75.86
		For Work In Restricted Working Space, Add	*50.57*	
40 05 23 23-0419	EA	2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	225.07	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0420	EA	3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	263.93	113.79
		For Work In Restricted Working Space, Add	*75.85*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0421	EA	4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	320.77	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0422	EA	6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	426.64	170.13
		For Work In Restricted Working Space, Add	*113.42*	
40 05 23 23-0423	EA	8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	735.67	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0424	EA	10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	1,053.26	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0425	EA	12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	1,587.68	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0426	EA	14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	1,870.18	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0427	EA	16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	2,178.75	774.36
		For Work In Restricted Working Space, Add	*516.25*	
40 05 23 23-0428	EA	18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	2,746.68	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0429	EA	20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	3,833.77	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0430	EA	24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	5,496.16	1,939.59
		For Work In Restricted Working Space, Add	*1,293.06*	

40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow *(40 05 23 23-0392)*

40 05 23 23-0432	EA	1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	111.78	48.56
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-0433	EA	3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	118.42	51.55
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-0434	EA	1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	130.47	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0435	EA	1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	142.59	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0436	EA	1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	156.10	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0437	EA	2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	174.03	75.86
		For Work In Restricted Working Space, Add	*50.57*	
40 05 23 23-0438	EA	2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	224.19	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0439	EA	3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	262.34	113.79
		For Work In Restricted Working Space, Add	*75.85*	
40 05 23 23-0440	EA	4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	317.78	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0441	EA	6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	410.97	170.13
		For Work In Restricted Working Space, Add	*113.42*	
40 05 23 23-0442	EA	8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	705.46	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0443	EA	10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	999.47	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0444	EA	12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	1,502.52	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0445	EA	14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	1,765.65	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0446	EA	16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	2,049.75	774.36
		For Work In Restricted Working Space, Add	*516.25*	
40 05 23 23-0447	EA	18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	2,577.27	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0448	EA	20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	3,605.17	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0449	EA	24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	5,171.88	1,939.59
		For Work In Restricted Working Space, Add	*1,293.06*	

40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee *(40 05 23 23-0392)*

40 05 23 23-0451	EA	1/2", Type 304, Schedule 10 Stainless Steel Tee	146.85	61.73
		For Work In Restricted Working Space, Add	*41.15*	
40 05 23 23-0452	EA	3/4", Type 304, Schedule 10 Stainless Steel Tee	178.05	75.77
		For Work In Restricted Working Space, Add	*50.51*	
40 05 23 23-0453	EA	1", Type 304, Schedule 10 Stainless Steel Tee	198.87	85.14
		For Work In Restricted Working Space, Add	*56.76*	
40 05 23 23-0454	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Tee	226.49	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0455	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Tee	241.26	104.21
		For Work In Restricted Working Space, Add	*69.47*	
40 05 23 23-0456	EA	2", Type 304, Schedule 10 Stainless Steel Tee	262.97	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0457	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Tee	331.94	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0458	EA	3", Type 304, Schedule 10 Stainless Steel Tee	398.29	170.67
		For Work In Restricted Working Space, Add	*113.78*	
40 05 23 23-0459	EA	4", Type 304, Schedule 10 Stainless Steel Tee	454.18	191.55
		For Work In Restricted Working Space, Add	*127.70*	
40 05 23 23-0460	EA	6", Type 304, Schedule 10 Stainless Steel Tee	643.42	255.39
		For Work In Restricted Working Space, Add	*170.27*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0461	EA	8", Type 304, Schedule 10 Stainless Steel Tee	1,040.91	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0462	EA	10", Type 304, Schedule 10 Stainless Steel Tee	1,587.68	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0463	EA	12", Type 304, Schedule 10 Stainless Steel Tee	2,025.57	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0464	EA	14", Type 304, Schedule 10 Stainless Steel Tee	2,475.97	874.07
		For Work In Restricted Working Space, Add	*582.71*	
40 05 23 23-0465	EA	16", Type 304, Schedule 10 Stainless Steel Tee	3,004.94	1,066.28
		For Work In Restricted Working Space, Add	*710.85*	
40 05 23 23-0466	EA	18", Type 304, Schedule 10 Stainless Steel Tee	3,824.38	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0467	EA	20", Type 304, Schedule 10 Stainless Steel Tee	5,092.02	1,786.47
		For Work In Restricted Working Space, Add	*1,190.98*	
40 05 23 23-0468	EA	24", Type 304, Schedule 10 Stainless Steel Tee	7,662.09	2,715.43
		For Work In Restricted Working Space, Add	*1,810.29*	

40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees *(40 05 23 23-0392)*

40 05 23 23-0470	EA	3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee	131.84	51.57
		For Work In Restricted Working Space, Add	*34.38*	
40 05 23 23-0471	EA	1", Type 304, Schedule 10 Stainless Steel Reducing Tee	157.67	63.19
		For Work In Restricted Working Space, Add	*42.13*	
40 05 23 23-0472	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee	189.28	71.00
		For Work In Restricted Working Space, Add	*47.34*	
40 05 23 23-0473	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee	201.52	80.94
		For Work In Restricted Working Space, Add	*53.96*	
40 05 23 23-0474	EA	2", Type 304, Schedule 10 Stainless Steel Reducing Tee	212.83	86.97
		For Work In Restricted Working Space, Add	*57.99*	
40 05 23 23-0475	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee	263.61	94.78
		For Work In Restricted Working Space, Add	*63.19*	
40 05 23 23-0476	EA	3", Type 304, Schedule 10 Stainless Steel Reducing Tee	311.97	113.61
		For Work In Restricted Working Space, Add	*75.74*	
40 05 23 23-0477	EA	4", Type 304, Schedule 10 Stainless Steel Reducing Tee	385.96	142.00
		For Work In Restricted Working Space, Add	*94.67*	
40 05 23 23-0478	EA	6", Type 304, Schedule 10 Stainless Steel Reducing Tee	490.45	162.26
		For Work In Restricted Working Space, Add	*108.17*	
40 05 23 23-0479	EA	8", Type 304, Schedule 10 Stainless Steel Reducing Tee	882.44	242.44
		For Work In Restricted Working Space, Add	*161.63*	
40 05 23 23-0480	EA	10", Type 304, Schedule 10 Stainless Steel Reducing Tee	1,396.40	323.27
		For Work In Restricted Working Space, Add	*215.51*	
40 05 23 23-0481	EA	12", Type 304, Schedule 10 Stainless Steel Reducing Tee	2,012.75	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-0482	EA	14", Type 304, Schedule 10 Stainless Steel Reducing Tee	2,437.60	582.56
		For Work In Restricted Working Space, Add	*388.37*	
40 05 23 23-0483	EA	16", Type 304, Schedule 10 Stainless Steel Reducing Tee	3,010.65	710.60
		For Work In Restricted Working Space, Add	*473.73*	
40 05 23 23-0484	EA	18", Type 304, Schedule 10 Stainless Steel Reducing Tee	3,878.23	905.14
		For Work In Restricted Working Space, Add	*603.43*	
40 05 23 23-0485	EA	20", Type 304, Schedule 10 Stainless Steel Reducing Tee	5,442.20	1,190.98
		For Work In Restricted Working Space, Add	*793.99*	
40 05 23 23-0486	EA	24", Type 304, Schedule 10 Stainless Steel Reducing Tee	8,471.76	1,808.68
		For Work In Restricted Working Space, Add	*1,205.79*	

40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers *(40 05 23 23-0392)*

40 05 23 23-0488	EA	3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	110.19	46.90
		For Work In Restricted Working Space, Add	*31.26*	
40 05 23 23-0489	EA	1", Type 304, Schedule 10 Stainless Steel Concentric Reducer	120.95	51.10
		For Work In Restricted Working Space, Add	*34.07*	
40 05 23 23-0490	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	134.08	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0491	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	143.72	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0492	EA	2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	157.33	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0493	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	206.59	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0494	EA	3", Type 304, Schedule 10 Stainless Steel Concentric Reducer	234.03	97.00
		For Work In Restricted Working Space, Add	*64.67*	
40 05 23 23-0495	EA	4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	273.74	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0496	EA	6", Type 304, Schedule 10 Stainless Steel Concentric Reducer	351.83	144.70
		For Work In Restricted Working Space, Add	*96.47*	
40 05 23 23-0497	EA	8", Type 304, Schedule 10 Stainless Steel Concentric Reducer	565.85	232.75
		For Work In Restricted Working Space, Add	*155.17*	
40 05 23 23-0498	EA	10", Type 304, Schedule 10 Stainless Steel Concentric Reducer	715.91	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0499	EA	12", Type 304, Schedule 10 Stainless Steel Concentric Reducer	960.31	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0500	EA	14", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,335.82	509.14
		For Work In Restricted Working Space, Add	*339.43*	
40 05 23 23-0501	EA	16", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,550.57	580.22
		For Work In Restricted Working Space, Add	*386.81*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0502	EA	18", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,918.75	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0503	EA	20", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,654.71	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0504	EA	24", Type 304, Schedule 10 Stainless Steel Concentric Reducer	3,870.66	1,454.69
		For Work In Restricted Working Space, Add	*969.80*	
40 05 23 23-0505	EA	3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	126.74	46.90
		For Work In Restricted Working Space, Add	*31.26*	
40 05 23 23-0506	EA	1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	133.10	51.10
		For Work In Restricted Working Space, Add	*34.07*	
40 05 23 23-0507	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	142.40	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0508	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	158.86	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0509	EA	2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	168.24	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0510	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	218.56	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0511	EA	3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	245.82	97.00
		For Work In Restricted Working Space, Add	*64.67*	
40 05 23 23-0512	EA	4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	282.86	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0513	EA	6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	384.74	144.70
		For Work In Restricted Working Space, Add	*96.47*	
40 05 23 23-0514	EA	8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	636.40	232.75
		For Work In Restricted Working Space, Add	*155.17*	
40 05 23 23-0515	EA	10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	853.53	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0516	EA	12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,087.47	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0517	EA	14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,629.17	509.14
		For Work In Restricted Working Space, Add	*339.43*	
40 05 23 23-0518	EA	16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,886.70	580.22
		For Work In Restricted Working Space, Add	*386.81*	
40 05 23 23-0519	EA	18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,328.98	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0520	EA	20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	3,312.09	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0521	EA	24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	4,741.89	1,454.69
		For Work In Restricted Working Space, Add	*969.80*	

40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps *(40 05 23 23-0392)*

40 05 23 23-0523	EA	1/2", Type 304, Schedule 10 Stainless Steel Cap	59.42	24.28
		For Work In Restricted Working Space, Add	*16.19*	
40 05 23 23-0524	EA	3/4", Type 304, Schedule 10 Stainless Steel Cap	64.67	25.76
		For Work In Restricted Working Space, Add	*17.18*	
40 05 23 23-0525	EA	1", Type 304, Schedule 10 Stainless Steel Cap	71.04	28.32
		For Work In Restricted Working Space, Add	*18.88*	
40 05 23 23-0526	EA	1-1/4", Type 304, Schedule 10 Stainless Steel Cap	78.02	30.87
		For Work In Restricted Working Space, Add	*20.58*	
40 05 23 23-0527	EA	1-1/2", Type 304, Schedule 10 Stainless Steel Cap	84.38	34.09
		For Work In Restricted Working Space, Add	*22.73*	
40 05 23 23-0528	EA	2", Type 304, Schedule 10 Stainless Steel Cap	91.85	37.93
		For Work In Restricted Working Space, Add	*25.28*	
40 05 23 23-0529	EA	2-1/2", Type 304, Schedule 10 Stainless Steel Cap	118.78	48.54
		For Work In Restricted Working Space, Add	*32.36*	
40 05 23 23-0530	EA	3", Type 304, Schedule 10 Stainless Steel Cap	135.76	56.90
		For Work In Restricted Working Space, Add	*37.93*	
40 05 23 23-0531	EA	4", Type 304, Schedule 10 Stainless Steel Cap	163.29	68.10
		For Work In Restricted Working Space, Add	*45.40*	
40 05 23 23-0532	EA	6", Type 304, Schedule 10 Stainless Steel Cap	208.88	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0533	EA	8", Type 304, Schedule 10 Stainless Steel Cap	358.44	145.46
		For Work In Restricted Working Space, Add	*96.98*	
40 05 23 23-0534	EA	10", Type 304, Schedule 10 Stainless Steel Cap	477.48	193.96
		For Work In Restricted Working Space, Add	*129.31*	
40 05 23 23-0535	EA	12", Type 304, Schedule 10 Stainless Steel Cap	707.07	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0536	EA	14", Type 304, Schedule 10 Stainless Steel Cap	828.49	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-0537	EA	16", Type 304, Schedule 10 Stainless Steel Cap	956.11	387.18
		For Work In Restricted Working Space, Add	*258.12*	
40 05 23 23-0538	EA	18", Type 304, Schedule 10 Stainless Steel Cap	1,204.67	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-0539	EA	20", Type 304, Schedule 10 Stainless Steel Cap	1,670.20	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0540	EA	24", Type 304, Schedule 10 Stainless Steel Cap	2,439.91	969.80
		For Work In Restricted Working Space, Add	*646.53*	

40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings *(40 05 23 23-0231)*

40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe *(40 05 23 23-0541)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0543	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	17.44	4.26
		For Work In Restricted Working Space, Add	*2.56*	
40 05 23 23-0544	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	21.19	5.21
		For Work In Restricted Working Space, Add	*3.12*	
40 05 23 23-0545	LF	1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	25.90	6.16
		For Work In Restricted Working Space, Add	*3.66*	
40 05 23 23-0546	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	32.38	7.57
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0547	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	37.25	8.52
		For Work In Restricted Working Space, Add	*5.16*	
40 05 23 23-0548	LF	2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	47.65	10.88
		For Work In Restricted Working Space, Add	*6.40*	
40 05 23 23-0549	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	58.87	12.30
		For Work In Restricted Working Space, Add	*7.31*	
40 05 23 23-0550	LF	3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	57.82	13.73
		For Work In Restricted Working Space, Add	*8.23*	
40 05 23 23-0551	LF	4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	93.91	16.10
		For Work In Restricted Working Space, Add	*9.74*	
40 05 23 23-0552	LF	6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	145.29	21.30
		For Work In Restricted Working Space, Add	*12.79*	
40 05 23 23-0553	LF	8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	258.26	38.22
		For Work In Restricted Working Space, Add	*24.69*	
40 05 23 23-0554	LF	10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	325.13	42.24
		For Work In Restricted Working Space, Add	*27.15*	
40 05 23 23-0555	LF	12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	403.63	46.77
		For Work In Restricted Working Space, Add	*30.17*	

40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows *(40 05 23 23-0541)*

40 05 23 23-0557	EA	1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	111.61	48.56
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-0558	EA	3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	118.25	51.55
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-0559	EA	1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	129.94	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0560	EA	1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	141.56	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0561	EA	1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	156.27	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0562	EA	2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	175.26	75.86
		For Work In Restricted Working Space, Add	*50.57*	
40 05 23 23-0563	EA	2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	229.64	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0564	EA	3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	270.62	113.79
		For Work In Restricted Working Space, Add	*75.85*	
40 05 23 23-0565	EA	4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	332.03	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0566	EA	6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	498.62	170.13
		For Work In Restricted Working Space, Add	*113.42*	
40 05 23 23-0567	EA	8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	833.76	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0568	EA	10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	1,252.28	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0569	EA	12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	1,845.81	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0570	EA	14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	2,183.32	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0571	EA	16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	2,581.03	774.36
		For Work In Restricted Working Space, Add	*516.25*	
40 05 23 23-0572	EA	18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	3,305.63	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0573	EA	20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	4,523.67	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0574	EA	24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow	6,480.42	1,939.59
		For Work In Restricted Working Space, Add	*1,293.06*	

40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows *(40 05 23 23-0541)*

40 05 23 23-0576	EA	1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	112.84	48.56
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-0577	EA	3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	119.48	51.55
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-0578	EA	1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	130.82	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0579	EA	1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	142.46	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0580	EA	1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	157.15	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0581	EA	2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	175.45	75.86
		For Work In Restricted Working Space, Add	*50.57*	
40 05 23 23-0582	EA	2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	229.64	97.08
		For Work In Restricted Working Space, Add	*64.72*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0583	EA	3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	265.69	113.79
		For Work In Restricted Working Space, Add	*75.85*	
40 05 23 23-0584	EA	4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	334.67	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0585	EA	6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	438.60	170.13
		For Work In Restricted Working Space, Add	*113.42*	
40 05 23 23-0586	EA	8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	770.84	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0587	EA	10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	1,095.09	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0588	EA	12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	1,613.92	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0589	EA	14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	1,844.21	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0590	EA	16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	2,177.28	774.36
		For Work In Restricted Working Space, Add	*516.25*	
40 05 23 23-0591	EA	18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	2,742.35	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0592	EA	20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	3,763.61	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0593	EA	24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	5,440.89	1,939.59
		For Work In Restricted Working Space, Add	*1,293.06*	

40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees *(40 05 23 23-0541)*

40 05 23 23-0595	EA	1/2", Type 304, Schedule 40 Stainless Steel Tee	147.55	61.73
		For Work In Restricted Working Space, Add	*41.15*	
40 05 23 23-0596	EA	3/4", Type 304, Schedule 40 Stainless Steel Tee	178.75	75.77
		For Work In Restricted Working Space, Add	*50.51*	
40 05 23 23-0597	EA	1", Type 304, Schedule 40 Stainless Steel Tee	199.57	85.14
		For Work In Restricted Working Space, Add	*56.76*	
40 05 23 23-0598	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Tee	228.28	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0599	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Tee	241.96	104.21
		For Work In Restricted Working Space, Add	*69.47*	
40 05 23 23-0600	EA	2", Type 304, Schedule 40 Stainless Steel Tee	263.85	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0601	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Tee	334.32	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0602	EA	3", Type 304, Schedule 40 Stainless Steel Tee	401.98	170.67
		For Work In Restricted Working Space, Add	*113.78*	
40 05 23 23-0603	EA	4", Type 304, Schedule 40 Stainless Steel Tee	458.23	191.55
		For Work In Restricted Working Space, Add	*127.70*	
40 05 23 23-0604	EA	6", Type 304, Schedule 40 Stainless Steel Tee	671.40	255.39
		For Work In Restricted Working Space, Add	*170.27*	
40 05 23 23-0605	EA	8", Type 304, Schedule 40 Stainless Steel Tee	1,123.97	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0606	EA	10", Type 304, Schedule 40 Stainless Steel Tee	1,842.59	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0607	EA	12", Type 304, Schedule 40 Stainless Steel Tee	2,294.35	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0608	EA	14", Type 304, Schedule 40 Stainless Steel Tee	3,017.56	874.07
		For Work In Restricted Working Space, Add	*582.71*	
40 05 23 23-0609	EA	16", Type 304, Schedule 40 Stainless Steel Tee	3,795.63	1,066.28
		For Work In Restricted Working Space, Add	*710.85*	
40 05 23 23-0610	EA	18", Type 304, Schedule 40 Stainless Steel Tee	4,897.93	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0611	EA	20", Type 304, Schedule 40 Stainless Steel Tee	6,351.28	1,786.47
		For Work In Restricted Working Space, Add	*1,190.98*	
40 05 23 23-0612	EA	24", Type 304, Schedule 40 Stainless Steel Tee	9,707.28	2,715.43
		For Work In Restricted Working Space, Add	*1,810.29*	

40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees *(40 05 23 23-0541)*

40 05 23 23-0614	EA	3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee	134.13	51.57
		For Work In Restricted Working Space, Add	*34.38*	
40 05 23 23-0615	EA	1", Type 304, Schedule 40 Stainless Steel Reducing Tee	159.96	63.19
		For Work In Restricted Working Space, Add	*42.13*	
40 05 23 23-0616	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee	200.29	71.00
		For Work In Restricted Working Space, Add	*47.34*	
40 05 23 23-0617	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee	204.86	80.94
		For Work In Restricted Working Space, Add	*53.96*	
40 05 23 23-0618	EA	2", Type 304, Schedule 40 Stainless Steel Reducing Tee	212.83	86.97
		For Work In Restricted Working Space, Add	*57.99*	
40 05 23 23-0619	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee	252.36	94.78
		For Work In Restricted Working Space, Add	*63.19*	
40 05 23 23-0620	EA	3", Type 304, Schedule 40 Stainless Steel Reducing Tee	287.15	113.61
		For Work In Restricted Working Space, Add	*75.74*	
40 05 23 23-0621	EA	4", Type 304, Schedule 40 Stainless Steel Reducing Tee	372.94	142.00
		For Work In Restricted Working Space, Add	*94.67*	
40 05 23 23-0622	EA	6", Type 304, Schedule 40 Stainless Steel Reducing Tee	492.56	162.26
		For Work In Restricted Working Space, Add	*108.17*	
40 05 23 23-0623	EA	8", Type 304, Schedule 40 Stainless Steel Reducing Tee	807.74	242.44
		For Work In Restricted Working Space, Add	*161.63*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0624	EA	10", Type 304, Schedule 40 Stainless Steel Reducing Tee	1,419.77	323.27
		For Work In Restricted Working Space, Add	*215.51*	
40 05 23 23-0625	EA	12", Type 304, Schedule 40 Stainless Steel Reducing Tee	2,059.51	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-0626	EA	14", Type 304, Schedule 40 Stainless Steel Reducing Tee	2,371.99	582.56
		For Work In Restricted Working Space, Add	*388.37*	
40 05 23 23-0627	EA	16", Type 304, Schedule 40 Stainless Steel Reducing Tee	2,928.48	710.60
		For Work In Restricted Working Space, Add	*473.73*	
40 05 23 23-0628	EA	18", Type 304, Schedule 40 Stainless Steel Reducing Tee	3,771.08	905.14
		For Work In Restricted Working Space, Add	*603.43*	
40 05 23 23-0629	EA	20", Type 304, Schedule 40 Stainless Steel Reducing Tee	5,281.73	1,190.98
		For Work In Restricted Working Space, Add	*793.99*	
40 05 23 23-0630	EA	24", Type 304, Schedule 40 Stainless Steel Reducing Tee	8,216.20	1,808.68
		For Work In Restricted Working Space, Add	*1,205.79*	

40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers *(40 05 23 23-0541)*

40 05 23 23-0632	EA	3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	111.95	46.90
		For Work In Restricted Working Space, Add	*31.26*	
40 05 23 23-0633	EA	1", Type 304, Schedule 40 Stainless Steel Concentric Reducer	122.71	51.10
		For Work In Restricted Working Space, Add	*34.07*	
40 05 23 23-0634	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	134.21	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0635	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	145.48	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0636	EA	2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	158.38	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0637	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	206.59	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0638	EA	3", Type 304, Schedule 40 Stainless Steel Concentric Reducer	227.69	97.00
		For Work In Restricted Working Space, Add	*64.67*	
40 05 23 23-0639	EA	4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	264.73	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0640	EA	6", Type 304, Schedule 40 Stainless Steel Concentric Reducer	353.24	144.70
		For Work In Restricted Working Space, Add	*96.47*	
40 05 23 23-0641	EA	8", Type 304, Schedule 40 Stainless Steel Concentric Reducer	595.74	232.75
		For Work In Restricted Working Space, Add	*155.17*	
40 05 23 23-0642	EA	10", Type 304, Schedule 40 Stainless Steel Concentric Reducer	767.23	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0643	EA	12", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,006.12	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0644	EA	14", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,438.62	509.14
		For Work In Restricted Working Space, Add	*339.43*	
40 05 23 23-0645	EA	16", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,679.80	580.22
		For Work In Restricted Working Space, Add	*386.81*	
40 05 23 23-0646	EA	18", Type 304, Schedule 40 Stainless Steel Concentric Reducer	2,180.44	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0647	EA	20", Type 304, Schedule 40 Stainless Steel Concentric Reducer	2,963.39	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0648	EA	24", Type 304, Schedule 40 Stainless Steel Concentric Reducer	4,190.33	1,454.69
		For Work In Restricted Working Space, Add	*969.80*	
40 05 23 23-0649	EA	3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	127.45	46.90
		For Work In Restricted Working Space, Add	*31.26*	
40 05 23 23-0650	EA	1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	136.79	51.10
		For Work In Restricted Working Space, Add	*34.07*	
40 05 23 23-0651	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	155.07	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0652	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	165.37	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0653	EA	2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	178.27	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0654	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	218.56	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0655	EA	3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	267.65	97.00
		For Work In Restricted Working Space, Add	*64.67*	
40 05 23 23-0656	EA	4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	297.65	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0657	EA	6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	399.35	144.70
		For Work In Restricted Working Space, Add	*96.47*	
40 05 23 23-0658	EA	8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	637.93	232.75
		For Work In Restricted Working Space, Add	*155.17*	
40 05 23 23-0659	EA	10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	852.20	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0660	EA	12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	1,156.66	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0661	EA	14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	1,807.62	509.14
		For Work In Restricted Working Space, Add	*339.43*	
40 05 23 23-0662	EA	16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	2,052.22	580.22
		For Work In Restricted Working Space, Add	*386.81*	
40 05 23 23-0663	EA	18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	2,662.24	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0664	EA	20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	3,476.56	969.81
		For Work In Restricted Working Space, Add	*646.53*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0665	EA	24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	5,470.88	1,454.69
		For Work In Restricted Working Space, Add	*969.80*	

40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps *(40 05 23 23-0541)*

40 05 23 23-0667	EA	1/2", Type 304, Schedule 40 Stainless Steel Cap	59.94	24.28
		For Work In Restricted Working Space, Add	*16.19*	
40 05 23 23-0668	EA	3/4", Type 304, Schedule 40 Stainless Steel Cap	64.14	25.76
		For Work In Restricted Working Space, Add	*17.18*	
40 05 23 23-0669	EA	1", Type 304, Schedule 40 Stainless Steel Cap	71.56	28.32
		For Work In Restricted Working Space, Add	*18.88*	
40 05 23 23-0670	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Cap	80.38	30.87
		For Work In Restricted Working Space, Add	*20.58*	
40 05 23 23-0671	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Cap	86.67	34.09
		For Work In Restricted Working Space, Add	*22.73*	
40 05 23 23-0672	EA	2", Type 304, Schedule 40 Stainless Steel Cap	91.67	37.93
		For Work In Restricted Working Space, Add	*25.28*	
40 05 23 23-0673	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Cap	117.60	48.54
		For Work In Restricted Working Space, Add	*32.36*	
40 05 23 23-0674	EA	3", Type 304, Schedule 40 Stainless Steel Cap	136.46	56.90
		For Work In Restricted Working Space, Add	*37.93*	
40 05 23 23-0675	EA	4", Type 304, Schedule 40 Stainless Steel Cap	165.40	68.10
		For Work In Restricted Working Space, Add	*45.40*	
40 05 23 23-0676	EA	6", Type 304, Schedule 40 Stainless Steel Cap	221.90	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0677	EA	8", Type 304, Schedule 40 Stainless Steel Cap	379.35	145.46
		For Work In Restricted Working Space, Add	*96.98*	
40 05 23 23-0678	EA	10", Type 304, Schedule 40 Stainless Steel Cap	507.05	193.96
		For Work In Restricted Working Space, Add	*129.31*	
40 05 23 23-0679	EA	12", Type 304, Schedule 40 Stainless Steel Cap	763.43	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0680	EA	14", Type 304, Schedule 40 Stainless Steel Cap	880.11	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-0681	EA	16", Type 304, Schedule 40 Stainless Steel Cap	1,027.12	387.18
		For Work In Restricted Working Space, Add	*258.12*	
40 05 23 23-0682	EA	18", Type 304, Schedule 40 Stainless Steel Cap	1,288.83	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-0683	EA	20", Type 304, Schedule 40 Stainless Steel Cap	1,782.43	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0684	EA	24", Type 304, Schedule 40 Stainless Steel Cap	2,627.56	969.80
		For Work In Restricted Working Space, Add	*646.53*	

40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings *(40 05 23 23-0231)*

40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe *(40 05 23 23-0685)*

40 05 23 23-0687	LF	1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	17.92	4.26
		For Work In Restricted Working Space, Add	*2.56*	
40 05 23 23-0688	LF	3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	21.28	5.21
		For Work In Restricted Working Space, Add	*3.12*	
40 05 23 23-0689	LF	1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	28.41	6.16
		For Work In Restricted Working Space, Add	*3.66*	
40 05 23 23-0690	LF	1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	34.64	7.67
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0691	LF	1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	38.51	8.61
		For Work In Restricted Working Space, Add	*5.16*	
40 05 23 23-0692	LF	2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	47.63	10.70
		For Work In Restricted Working Space, Add	*6.40*	
40 05 23 23-0693	LF	2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	57.07	12.21
		For Work In Restricted Working Space, Add	*7.31*	
40 05 23 23-0694	LF	3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	67.53	13.73
		For Work In Restricted Working Space, Add	*8.23*	
40 05 23 23-0695	LF	4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	85.07	16.28
		For Work In Restricted Working Space, Add	*9.74*	
40 05 23 23-0696	LF	6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	124.75	21.40
		For Work In Restricted Working Space, Add	*12.79*	
40 05 23 23-0697	LF	8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	208.01	38.41
		For Work In Restricted Working Space, Add	*24.69*	
40 05 23 23-0698	LF	10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	267.55	42.24
		For Work In Restricted Working Space, Add	*27.15*	
40 05 23 23-0699	LF	12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	321.23	46.96
		For Work In Restricted Working Space, Add	*30.17*	
40 05 23 23-0700	LF	14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	396.57	52.80
		For Work In Restricted Working Space, Add	*33.95*	
40 05 23 23-0701	LF	16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	436.05	60.35
		For Work In Restricted Working Space, Add	*38.79*	
40 05 23 23-0702	LF	18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	487.78	70.40
		For Work In Restricted Working Space, Add	*45.26*	
40 05 23 23-0703	LF	20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	680.88	84.48
		For Work In Restricted Working Space, Add	*54.31*	
40 05 23 23-0704	LF	24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	889.23	105.60
		For Work In Restricted Working Space, Add	*67.89*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0705		**Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows** *(40 05 23 23-0685)*		
40 05 23 23-0706	EA	1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	111.78	48.56
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-0707	EA	3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	118.42	51.55
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-0708	EA	1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	130.47	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0709	EA	1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	142.71	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0710	EA	1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	156.98	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0711	EA	2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	175.26	75.86
		For Work In Restricted Working Space, Add	*50.57*	
40 05 23 23-0712	EA	2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	227.36	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0713	EA	3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	267.27	113.79
		For Work In Restricted Working Space, Add	*75.85*	
40 05 23 23-0714	EA	4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	325.87	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0715	EA	6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	440.01	170.13
		For Work In Restricted Working Space, Add	*113.42*	
40 05 23 23-0716	EA	8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	760.58	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0717	EA	10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	1,110.85	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0718	EA	12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	1,666.19	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0719	EA	14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	1,944.06	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0720	EA	16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	2,295.60	774.36
		For Work In Restricted Working Space, Add	*516.25*	
40 05 23 23-0721	EA	18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	2,886.80	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0722	EA	20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	4,033.93	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0723	EA	24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow	5,793.58	1,939.59
		For Work In Restricted Working Space, Add	*1,293.06*	
40 05 23 23-0724		**Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows** *(40 05 23 23-0685)*		
40 05 23 23-0725	EA	1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	112.84	48.56
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-0726	EA	3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	119.48	51.55
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-0727	EA	1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	131.52	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0728	EA	1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	144.12	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0729	EA	1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	156.98	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0730	EA	2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	175.26	75.86
		For Work In Restricted Working Space, Add	*50.57*	
40 05 23 23-0731	EA	2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	226.30	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0732	EA	3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	265.69	113.79
		For Work In Restricted Working Space, Add	*75.85*	
40 05 23 23-0733	EA	4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	322.18	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0734	EA	6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	418.19	170.13
		For Work In Restricted Working Space, Add	*113.42*	
40 05 23 23-0735	EA	8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	721.42	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0736	EA	10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	1,095.09	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0737	EA	12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	1,613.92	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0738	EA	14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	1,895.07	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0739	EA	16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	2,205.80	774.36
		For Work In Restricted Working Space, Add	*516.25*	
40 05 23 23-0740	EA	18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	2,781.04	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0741	EA	20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	3,938.91	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0742	EA	24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow	5,667.02	1,939.59
		For Work In Restricted Working Space, Add	*1,293.06*	
40 05 23 23-0743		**Type 316, Schedule 10 Stainless Steel Butt Weld Tees** *(40 05 23 23-0685)*		
40 05 23 23-0744	EA	1/2", Type 316, Schedule 10 Stainless Steel Tee	149.14	61.73
		For Work In Restricted Working Space, Add	*41.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0745	EA	3/4", Type 316, Schedule 10 Stainless Steel Tee	180.34	75.77
		For Work In Restricted Working Space, Add	*50.51*	
40 05 23 23-0746	EA	1", Type 316, Schedule 10 Stainless Steel Tee	201.16	85.14
		For Work In Restricted Working Space, Add	*56.76*	
40 05 23 23-0747	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Tee	230.72	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0748	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Tee	244.60	104.21
		For Work In Restricted Working Space, Add	*69.47*	
40 05 23 23-0749	EA	2", Type 316, Schedule 10 Stainless Steel Tee	265.97	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0750	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Tee	322.35	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0751	EA	3", Type 316, Schedule 10 Stainless Steel Tee	404.10	170.67
		For Work In Restricted Working Space, Add	*113.78*	
40 05 23 23-0752	EA	4", Type 316, Schedule 10 Stainless Steel Tee	462.10	191.55
		For Work In Restricted Working Space, Add	*127.70*	
40 05 23 23-0753	EA	6", Type 316, Schedule 10 Stainless Steel Tee	666.12	255.39
		For Work In Restricted Working Space, Add	*170.27*	
40 05 23 23-0754	EA	8", Type 316, Schedule 10 Stainless Steel Tee	1,100.59	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0755	EA	10", Type 316, Schedule 10 Stainless Steel Tee	1,702.30	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0756	EA	12", Type 316, Schedule 10 Stainless Steel Tee	2,177.44	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0757	EA	14", Type 316, Schedule 10 Stainless Steel Tee	2,757.57	874.07
		For Work In Restricted Working Space, Add	*582.71*	
40 05 23 23-0758	EA	16", Type 316, Schedule 10 Stainless Steel Tee	3,277.65	1,066.28
		For Work In Restricted Working Space, Add	*710.85*	
40 05 23 23-0759	EA	18", Type 316, Schedule 10 Stainless Steel Tee	4,167.50	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0760	EA	20", Type 316, Schedule 10 Stainless Steel Tee	5,592.39	1,786.47
		For Work In Restricted Working Space, Add	*1,190.98*	
40 05 23 23-0761	EA	24", Type 316, Schedule 10 Stainless Steel Tee	8,100.94	2,715.43
		For Work In Restricted Working Space, Add	*1,810.29*	

40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees *(40 05 23 23-0685)*

40 05 23 23-0763	EA	3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee	137.29	51.57
		For Work In Restricted Working Space, Add	*34.38*	
40 05 23 23-0764	EA	1", Type 316, Schedule 10 Stainless Steel Reducing Tee	164.18	63.19
		For Work In Restricted Working Space, Add	*42.13*	
40 05 23 23-0765	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee	197.21	71.00
		For Work In Restricted Working Space, Add	*47.34*	
40 05 23 23-0766	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee	206.97	80.94
		For Work In Restricted Working Space, Add	*53.96*	
40 05 23 23-0767	EA	2", Type 316, Schedule 10 Stainless Steel Reducing Tee	220.39	86.97
		For Work In Restricted Working Space, Add	*57.99*	
40 05 23 23-0768	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee	286.49	94.78
		For Work In Restricted Working Space, Add	*63.19*	
40 05 23 23-0769	EA	3", Type 316, Schedule 10 Stainless Steel Reducing Tee	291.38	113.61
		For Work In Restricted Working Space, Add	*75.74*	
40 05 23 23-0770	EA	4", Type 316, Schedule 10 Stainless Steel Reducing Tee	385.96	142.00
		For Work In Restricted Working Space, Add	*94.67*	
40 05 23 23-0771	EA	6", Type 316, Schedule 10 Stainless Steel Reducing Tee	523.01	162.26
		For Work In Restricted Working Space, Add	*108.17*	
40 05 23 23-0772	EA	8", Type 316, Schedule 10 Stainless Steel Reducing Tee	977.11	242.44
		For Work In Restricted Working Space, Add	*161.63*	
40 05 23 23-0773	EA	10", Type 316, Schedule 10 Stainless Steel Reducing Tee	1,712.12	323.27
		For Work In Restricted Working Space, Add	*215.51*	
40 05 23 23-0774	EA	12", Type 316, Schedule 10 Stainless Steel Reducing Tee	2,281.71	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-0775	EA	14", Type 316, Schedule 10 Stainless Steel Reducing Tee	2,615.80	582.56
		For Work In Restricted Working Space, Add	*388.37*	
40 05 23 23-0776	EA	16", Type 316, Schedule 10 Stainless Steel Reducing Tee	3,233.82	710.60
		For Work In Restricted Working Space, Add	*473.73*	
40 05 23 23-0777	EA	18", Type 316, Schedule 10 Stainless Steel Reducing Tee	4,169.26	905.14
		For Work In Restricted Working Space, Add	*603.43*	
40 05 23 23-0778	EA	20", Type 316, Schedule 10 Stainless Steel Reducing Tee	5,878.01	1,190.98
		For Work In Restricted Working Space, Add	*793.99*	
40 05 23 23-0779	EA	24", Type 316, Schedule 10 Stainless Steel Reducing Tee	9,165.88	1,808.68
		For Work In Restricted Working Space, Add	*1,205.79*	

40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers *(40 05 23 23-0685)*

40 05 23 23-0781	EA	3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer	111.78	46.90
		For Work In Restricted Working Space, Add	*31.26*	
40 05 23 23-0782	EA	1", Type 316, Schedule 10 Stainless Steel Concentric Reducer	122.89	51.10
		For Work In Restricted Working Space, Add	*34.07*	
40 05 23 23-0783	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer	136.90	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0784	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer	144.95	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0785	EA	2", Type 316, Schedule 10 Stainless Steel Concentric Reducer	158.38	68.18
		For Work In Restricted Working Space, Add	*45.46*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0786	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer	205.85	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0787	EA	3", Type 316, Schedule 10 Stainless Steel Concentric Reducer	238.25	97.00
		For Work In Restricted Working Space, Add	*64.67*	
40 05 23 23-0788	EA	4", Type 316, Schedule 10 Stainless Steel Concentric Reducer	265.99	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0789	EA	6", Type 316, Schedule 10 Stainless Steel Concentric Reducer	360.46	144.70
		For Work In Restricted Working Space, Add	*96.47*	
40 05 23 23-0790	EA	8", Type 316, Schedule 10 Stainless Steel Concentric Reducer	574.87	232.75
		For Work In Restricted Working Space, Add	*155.17*	
40 05 23 23-0791	EA	10", Type 316, Schedule 10 Stainless Steel Concentric Reducer	737.02	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0792	EA	12", Type 316, Schedule 10 Stainless Steel Concentric Reducer	985.22	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0793	EA	14", Type 316, Schedule 10 Stainless Steel Concentric Reducer	1,370.12	509.14
		For Work In Restricted Working Space, Add	*339.43*	
40 05 23 23-0794	EA	16", Type 316, Schedule 10 Stainless Steel Concentric Reducer	1,583.05	580.22
		For Work In Restricted Working Space, Add	*386.81*	
40 05 23 23-0795	EA	18", Type 316, Schedule 10 Stainless Steel Concentric Reducer	1,966.49	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0796	EA	20", Type 316, Schedule 10 Stainless Steel Concentric Reducer	2,728.48	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0797	EA	24", Type 316, Schedule 10 Stainless Steel Concentric Reducer	4,001.45	1,454.69
		For Work In Restricted Working Space, Add	*969.80*	
40 05 23 23-0798	EA	3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	125.46	46.90
		For Work In Restricted Working Space, Add	*31.26*	
40 05 23 23-0799	EA	1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	139.14	51.10
		For Work In Restricted Working Space, Add	*34.07*	
40 05 23 23-0800	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	156.16	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0801	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	167.48	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0802	EA	2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	172.29	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0803	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	225.07	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0804	EA	3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	257.97	97.00
		For Work In Restricted Working Space, Add	*64.67*	
40 05 23 23-0805	EA	4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	292.72	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0806	EA	6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	406.39	144.70
		For Work In Restricted Working Space, Add	*96.47*	
40 05 23 23-0807	EA	8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	674.42	232.75
		For Work In Restricted Working Space, Add	*155.17*	
40 05 23 23-0808	EA	10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	908.46	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0809	EA	12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	1,163.12	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0810	EA	14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	1,707.49	509.14
		For Work In Restricted Working Space, Add	*339.43*	
40 05 23 23-0811	EA	16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	1,990.81	580.22
		For Work In Restricted Working Space, Add	*386.81*	
40 05 23 23-0812	EA	18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	2,473.11	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0813	EA	20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	3,538.72	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0814	EA	24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer	4,963.67	1,454.69
		For Work In Restricted Working Space, Add	*969.80*	

40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps *(40 05 23 23-0685)*

40 05 23 23-0816	EA	1/2", Type 316, Schedule 10 Stainless Steel Cap	61.70	24.28
		For Work In Restricted Working Space, Add	*16.19*	
40 05 23 23-0817	EA	3/4", Type 316, Schedule 10 Stainless Steel Cap	67.66	25.76
		For Work In Restricted Working Space, Add	*17.18*	
40 05 23 23-0818	EA	1", Type 316, Schedule 10 Stainless Steel Cap	74.20	28.32
		For Work In Restricted Working Space, Add	*18.88*	
40 05 23 23-0819	EA	1-1/4", Type 316, Schedule 10 Stainless Steel Cap	81.08	30.87
		For Work In Restricted Working Space, Add	*20.58*	
40 05 23 23-0820	EA	1-1/2", Type 316, Schedule 10 Stainless Steel Cap	88.08	34.09
		For Work In Restricted Working Space, Add	*22.73*	
40 05 23 23-0821	EA	2", Type 316, Schedule 10 Stainless Steel Cap	93.96	37.93
		For Work In Restricted Working Space, Add	*25.28*	
40 05 23 23-0822	EA	2-1/2", Type 316, Schedule 10 Stainless Steel Cap	118.11	48.54
		For Work In Restricted Working Space, Add	*32.36*	
40 05 23 23-0823	EA	3", Type 316, Schedule 10 Stainless Steel Cap	139.45	56.90
		For Work In Restricted Working Space, Add	*37.93*	
40 05 23 23-0824	EA	4", Type 316, Schedule 10 Stainless Steel Cap	166.98	68.10
		For Work In Restricted Working Space, Add	*45.40*	
40 05 23 23-0825	EA	6", Type 316, Schedule 10 Stainless Steel Cap	215.39	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0826	EA	8", Type 316, Schedule 10 Stainless Steel Cap	370.03	145.46
		For Work In Restricted Working Space, Add	*96.98*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0827	EA	10", Type 316, Schedule 10 Stainless Steel Cap	491.56	193.96
		For Work In Restricted Working Space, Add	*129.31*	
40 05 23 23-0828	EA	12", Type 316, Schedule 10 Stainless Steel Cap	727.67	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0829	EA	14", Type 316, Schedule 10 Stainless Steel Cap	847.06	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-0830	EA	16", Type 316, Schedule 10 Stainless Steel Cap	971.80	387.18
		For Work In Restricted Working Space, Add	*258.12*	
40 05 23 23-0831	EA	18", Type 316, Schedule 10 Stainless Steel Cap	1,222.65	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-0832	EA	20", Type 316, Schedule 10 Stainless Steel Cap	1,698.88	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0833	EA	24", Type 316, Schedule 10 Stainless Steel Cap	2,528.21	969.80
		For Work In Restricted Working Space, Add	*646.53*	

40 05 23 23-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings *(40 05 23 23-0231)*

40 05 23 23-0835 Type 316, Schedule 40 Stainless Steel Pipe *(40 05 23 23-0834)*

40 05 23 23-0836	LF	1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	20.42	4.26
		For Work In Restricted Working Space, Add	*2.56*	
40 05 23 23-0837	LF	3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	24.79	5.21
		For Work In Restricted Working Space, Add	*3.12*	
40 05 23 23-0838	LF	1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	30.47	6.16
		For Work In Restricted Working Space, Add	*3.66*	
40 05 23 23-0839	LF	1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	38.10	7.57
		For Work In Restricted Working Space, Add	*4.58*	
40 05 23 23-0840	LF	1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	43.95	8.52
		For Work In Restricted Working Space, Add	*5.16*	
40 05 23 23-0841	LF	2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	56.46	10.88
		For Work In Restricted Working Space, Add	*6.40*	
40 05 23 23-0842	LF	2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	70.41	12.30
		For Work In Restricted Working Space, Add	*7.31*	
40 05 23 23-0843	LF	3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	67.98	13.73
		For Work In Restricted Working Space, Add	*8.23*	
40 05 23 23-0844	LF	4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	114.47	16.10
		For Work In Restricted Working Space, Add	*9.74*	
40 05 23 23-0845	LF	6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	179.63	21.30
		For Work In Restricted Working Space, Add	*12.79*	
40 05 23 23-0846	LF	8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	317.12	38.22
		For Work In Restricted Working Space, Add	*24.69*	
40 05 23 23-0847	LF	10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	403.62	42.24
		For Work In Restricted Working Space, Add	*27.15*	
40 05 23 23-0848	LF	12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting	505.00	46.77
		For Work In Restricted Working Space, Add	*30.17*	

40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows *(40 05 23 23-0834)*

40 05 23 23-0850	EA	1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	112.66	48.56
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-0851	EA	3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	119.30	51.55
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-0852	EA	1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	131.35	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0853	EA	1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	143.10	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0854	EA	1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	157.86	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0855	EA	2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	177.37	75.86
		For Work In Restricted Working Space, Add	*50.57*	
40 05 23 23-0856	EA	2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	233.87	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0857	EA	3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	276.42	113.79
		For Work In Restricted Working Space, Add	*75.85*	
40 05 23 23-0858	EA	4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	345.94	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0859	EA	6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	510.41	170.13
		For Work In Restricted Working Space, Add	*113.42*	
40 05 23 23-0860	EA	8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	895.34	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0861	EA	10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	1,405.47	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0862	EA	12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	2,022.59	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0863	EA	14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	2,280.45	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0864	EA	16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	2,734.78	774.36
		For Work In Restricted Working Space, Add	*516.25*	
40 05 23 23-0865	EA	18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	3,479.10	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0866	EA	20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	4,730.58	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0867	EA	24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow	6,845.14	1,939.59
		For Work In Restricted Working Space, Add	*1,293.06*	

40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows *(40 05 23 23-0834)*

40 05 23 23-0869	EA	1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	114.42	48.56
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-0870	EA	3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	121.06	51.55
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-0871	EA	1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	132.40	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0872	EA	1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	143.61	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0873	EA	1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	158.91	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0874	EA	2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	177.37	75.86
		For Work In Restricted Working Space, Add	*50.57*	
40 05 23 23-0875	EA	2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	233.87	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0876	EA	3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	269.56	113.79
		For Work In Restricted Working Space, Add	*75.85*	
40 05 23 23-0877	EA	4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	332.91	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0878	EA	6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	456.91	170.13
		For Work In Restricted Working Space, Add	*113.42*	
40 05 23 23-0879	EA	8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	801.07	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0880	EA	10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	1,188.22	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0881	EA	12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	1,731.76	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0882	EA	14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	1,979.45	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0883	EA	16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	2,240.95	774.36
		For Work In Restricted Working Space, Add	*516.25*	
40 05 23 23-0884	EA	18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	2,864.32	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0885	EA	20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	3,919.62	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0886	EA	24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow	5,762.14	1,939.59
		For Work In Restricted Working Space, Add	*1,293.06*	

40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees *(40 05 23 23-0834)*

40 05 23 23-0888	EA	1/2", Type 316, Schedule 40 Stainless Steel Tee	150.19	61.73
		For Work In Restricted Working Space, Add	*41.15*	
40 05 23 23-0889	EA	3/4", Type 316, Schedule 40 Stainless Steel Tee	181.39	75.77
		For Work In Restricted Working Space, Add	*50.51*	
40 05 23 23-0890	EA	1", Type 316, Schedule 40 Stainless Steel Tee	202.21	85.14
		For Work In Restricted Working Space, Add	*56.76*	
40 05 23 23-0891	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Tee	232.25	97.08
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-0892	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Tee	244.60	104.21
		For Work In Restricted Working Space, Add	*69.47*	
40 05 23 23-0893	EA	2", Type 316, Schedule 40 Stainless Steel Tee	266.67	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0894	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Tee	328.62	136.18
		For Work In Restricted Working Space, Add	*90.79*	
40 05 23 23-0895	EA	3", Type 316, Schedule 40 Stainless Steel Tee	407.44	170.67
		For Work In Restricted Working Space, Add	*113.78*	
40 05 23 23-0896	EA	4", Type 316, Schedule 40 Stainless Steel Tee	467.91	191.55
		For Work In Restricted Working Space, Add	*127.70*	
40 05 23 23-0897	EA	6", Type 316, Schedule 40 Stainless Steel Tee	707.48	255.39
		For Work In Restricted Working Space, Add	*170.27*	
40 05 23 23-0898	EA	8", Type 316, Schedule 40 Stainless Steel Tee	1,206.85	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0899	EA	10", Type 316, Schedule 40 Stainless Steel Tee	1,982.86	581.88
		For Work In Restricted Working Space, Add	*387.92*	
40 05 23 23-0900	EA	12", Type 316, Schedule 40 Stainless Steel Tee	2,446.41	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0901	EA	14", Type 316, Schedule 40 Stainless Steel Tee	3,390.29	874.07
		For Work In Restricted Working Space, Add	*582.71*	
40 05 23 23-0902	EA	16", Type 316, Schedule 40 Stainless Steel Tee	4,189.42	1,066.28
		For Work In Restricted Working Space, Add	*710.85*	
40 05 23 23-0903	EA	18", Type 316, Schedule 40 Stainless Steel Tee	5,410.40	1,357.71
		For Work In Restricted Working Space, Add	*905.15*	
40 05 23 23-0904	EA	20", Type 316, Schedule 40 Stainless Steel Tee	7,044.49	1,786.47
		For Work In Restricted Working Space, Add	*1,190.98*	
40 05 23 23-0905	EA	24", Type 316, Schedule 40 Stainless Steel Tee	10,198.19	2,715.43
		For Work In Restricted Working Space, Add	*1,810.29*	

40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees *(40 05 23 23-0834)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0907	EA	3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee	140.64	51.57
		For Work In Restricted Working Space, Add	*34.38*	
40 05 23 23-0908	EA	1", Type 316, Schedule 40 Stainless Steel Reducing Tee	166.47	63.19
		For Work In Restricted Working Space, Add	*42.13*	
40 05 23 23-0909	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee	211.29	71.00
		For Work In Restricted Working Space, Add	*47.34*	
40 05 23 23-0910	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee	212.43	80.94
		For Work In Restricted Working Space, Add	*53.96*	
40 05 23 23-0911	EA	2", Type 316, Schedule 40 Stainless Steel Reducing Tee	220.39	86.97
		For Work In Restricted Working Space, Add	*57.99*	
40 05 23 23-0912	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee	287.54	94.78
		For Work In Restricted Working Space, Add	*63.19*	
40 05 23 23-0913	EA	3", Type 316, Schedule 40 Stainless Steel Reducing Tee	298.94	113.61
		For Work In Restricted Working Space, Add	*75.74*	
40 05 23 23-0914	EA	4", Type 316, Schedule 40 Stainless Steel Reducing Tee	393.53	142.00
		For Work In Restricted Working Space, Add	*94.67*	
40 05 23 23-0915	EA	6", Type 316, Schedule 40 Stainless Steel Reducing Tee	527.76	162.26
		For Work In Restricted Working Space, Add	*108.17*	
40 05 23 23-0916	EA	8", Type 316, Schedule 40 Stainless Steel Reducing Tee	883.59	242.44
		For Work In Restricted Working Space, Add	*161.63*	
40 05 23 23-0917	EA	10", Type 316, Schedule 40 Stainless Steel Reducing Tee	1,735.51	323.27
		For Work In Restricted Working Space, Add	*215.51*	
40 05 23 23-0918	EA	12", Type 316, Schedule 40 Stainless Steel Reducing Tee	2,328.47	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-0919	EA	14", Type 316, Schedule 40 Stainless Steel Reducing Tee	2,667.10	582.56
		For Work In Restricted Working Space, Add	*388.37*	
40 05 23 23-0920	EA	16", Type 316, Schedule 40 Stainless Steel Reducing Tee	3,298.08	710.60
		For Work In Restricted Working Space, Add	*473.73*	
40 05 23 23-0921	EA	18", Type 316, Schedule 40 Stainless Steel Reducing Tee	4,253.05	905.14
		For Work In Restricted Working Space, Add	*603.43*	
40 05 23 23-0922	EA	20", Type 316, Schedule 40 Stainless Steel Reducing Tee	6,003.50	1,190.98
		For Work In Restricted Working Space, Add	*793.99*	
40 05 23 23-0923	EA	24", Type 316, Schedule 40 Stainless Steel Reducing Tee	9,365.74	1,808.68
		For Work In Restricted Working Space, Add	*1,205.79*	

40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers *(40 05 23 23-0834)*

40 05 23 23-0925	EA	3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer	114.59	46.90
		For Work In Restricted Working Space, Add	*31.26*	
40 05 23 23-0926	EA	1", Type 316, Schedule 40 Stainless Steel Concentric Reducer	125.70	51.10
		For Work In Restricted Working Space, Add	*34.07*	
40 05 23 23-0927	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer	138.18	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0928	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer	148.12	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0929	EA	2", Type 316, Schedule 40 Stainless Steel Concentric Reducer	160.32	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0930	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer	212.04	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0931	EA	3", Type 316, Schedule 40 Stainless Steel Concentric Reducer	231.39	97.00
		For Work In Restricted Working Space, Add	*64.67*	
40 05 23 23-0932	EA	4", Type 316, Schedule 40 Stainless Steel Concentric Reducer	268.43	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0933	EA	6", Type 316, Schedule 40 Stainless Steel Concentric Reducer	361.69	144.70
		For Work In Restricted Working Space, Add	*96.47*	
40 05 23 23-0934	EA	8", Type 316, Schedule 40 Stainless Steel Concentric Reducer	611.70	232.75
		For Work In Restricted Working Space, Add	*155.17*	
40 05 23 23-0935	EA	10", Type 316, Schedule 40 Stainless Steel Concentric Reducer	806.39	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0936	EA	12", Type 316, Schedule 40 Stainless Steel Concentric Reducer	1,035.02	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0937	EA	14", Type 316, Schedule 40 Stainless Steel Concentric Reducer	1,464.98	509.14
		For Work In Restricted Working Space, Add	*339.43*	
40 05 23 23-0938	EA	16", Type 316, Schedule 40 Stainless Steel Concentric Reducer	1,684.00	580.22
		For Work In Restricted Working Space, Add	*386.81*	
40 05 23 23-0939	EA	18", Type 316, Schedule 40 Stainless Steel Concentric Reducer	2,218.66	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0940	EA	20", Type 316, Schedule 40 Stainless Steel Concentric Reducer	2,998.21	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0941	EA	24", Type 316, Schedule 40 Stainless Steel Concentric Reducer	4,342.05	1,454.69
		For Work In Restricted Working Space, Add	*969.80*	
40 05 23 23-0942	EA	3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	134.48	46.90
		For Work In Restricted Working Space, Add	*31.26*	
40 05 23 23-0943	EA	1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	143.83	51.10
		For Work In Restricted Working Space, Add	*34.07*	
40 05 23 23-0944	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	165.31	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-0945	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	172.94	61.75
		For Work In Restricted Working Space, Add	*41.16*	
40 05 23 23-0946	EA	2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	186.72	68.18
		For Work In Restricted Working Space, Add	*45.46*	
40 05 23 23-0947	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	225.07	85.20
		For Work In Restricted Working Space, Add	*56.80*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0948	EA	3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	282.25	97.00
		For Work In Restricted Working Space, Add	*64.67*	
40 05 23 23-0949	EA	4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	312.08	113.66
		For Work In Restricted Working Space, Add	*75.78*	
40 05 23 23-0950	EA	6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	433.32	144.70
		For Work In Restricted Working Space, Add	*96.47*	
40 05 23 23-0951	EA	8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	665.30	232.75
		For Work In Restricted Working Space, Add	*155.17*	
40 05 23 23-0952	EA	10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	924.24	290.95
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0953	EA	12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	1,270.71	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-0954	EA	14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	1,860.97	509.14
		For Work In Restricted Working Space, Add	*339.43*	
40 05 23 23-0955	EA	16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	2,139.88	580.22
		For Work In Restricted Working Space, Add	*386.81*	
40 05 23 23-0956	EA	18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	2,841.84	727.34
		For Work In Restricted Working Space, Add	*484.90*	
40 05 23 23-0957	EA	20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	3,676.23	969.81
		For Work In Restricted Working Space, Add	*646.53*	
40 05 23 23-0958	EA	24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer	5,511.81	1,454.69
		For Work In Restricted Working Space, Add	*969.80*	

40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps *(40 05 23 23-0834)*

40 05 23 23-0960	EA	1/2", Type 316, Schedule 40 Stainless Steel Cap	62.06	24.28
		For Work In Restricted Working Space, Add	*16.19*	
40 05 23 23-0961	EA	3/4", Type 316, Schedule 40 Stainless Steel Cap	67.49	25.76
		For Work In Restricted Working Space, Add	*17.18*	
40 05 23 23-0962	EA	1", Type 316, Schedule 40 Stainless Steel Cap	74.56	28.32
		For Work In Restricted Working Space, Add	*18.88*	
40 05 23 23-0963	EA	1-1/4", Type 316, Schedule 40 Stainless Steel Cap	84.34	30.87
		For Work In Restricted Working Space, Add	*20.58*	
40 05 23 23-0964	EA	1-1/2", Type 316, Schedule 40 Stainless Steel Cap	85.44	34.09
		For Work In Restricted Working Space, Add	*22.73*	
40 05 23 23-0965	EA	2", Type 316, Schedule 40 Stainless Steel Cap	96.42	37.93
		For Work In Restricted Working Space, Add	*25.28*	
40 05 23 23-0966	EA	2-1/2", Type 316, Schedule 40 Stainless Steel Cap	121.31	48.54
		For Work In Restricted Working Space, Add	*32.36*	
40 05 23 23-0967	EA	3", Type 316, Schedule 40 Stainless Steel Cap	139.98	56.90
		For Work In Restricted Working Space, Add	*37.93*	
40 05 23 23-0968	EA	4", Type 316, Schedule 40 Stainless Steel Cap	170.86	68.10
		For Work In Restricted Working Space, Add	*45.40*	
40 05 23 23-0969	EA	6", Type 316, Schedule 40 Stainless Steel Cap	231.58	85.20
		For Work In Restricted Working Space, Add	*56.80*	
40 05 23 23-0970	EA	8", Type 316, Schedule 40 Stainless Steel Cap	400.45	145.46
		For Work In Restricted Working Space, Add	*96.98*	
40 05 23 23-0971	EA	10", Type 316, Schedule 40 Stainless Steel Cap	536.32	193.96
		For Work In Restricted Working Space, Add	*129.31*	
40 05 23 23-0972	EA	12", Type 316, Schedule 40 Stainless Steel Cap	800.87	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-0973	EA	14", Type 316, Schedule 40 Stainless Steel Cap	918.00	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-0974	EA	16", Type 316, Schedule 40 Stainless Steel Cap	1,035.35	387.18
		For Work In Restricted Working Space, Add	*258.12*	
40 05 23 23-0975	EA	18", Type 316, Schedule 40 Stainless Steel Cap	1,315.70	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-0976	EA	20", Type 316, Schedule 40 Stainless Steel Cap	1,816.02	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-0977	EA	24", Type 316, Schedule 40 Stainless Steel Cap	2,756.32	969.80
		For Work In Restricted Working Space, Add	*646.53*	

40 05 23 23-0978 Valves *(40 05 23 23-0231)*

40 05 23 23-0979 Gate Valves, Class 150 *(40 05 23 23-0978)*

40 05 23 23-0980	EA	1/2" Gate Valve, Stainless Steel, Flanged	492.51	48.67
		For Work In Restricted Working Space, Add	*18.25*	
		For Class 200, Deduct	*-115.47*	
		For Class 300, Add	*405.78*	
40 05 23 23-0981	EA	3/4" Gate Valve, Stainless Steel, Flanged	535.65	50.70
		For Work In Restricted Working Space, Add	*21.29*	
		For Class 200, Deduct	*-124.30*	
		For Class 300, Add	*436.79*	
40 05 23 23-0982	EA	1" Gate Valve, Stainless Steel, Flanged	661.01	76.05
		For Work In Restricted Working Space, Add	*28.70*	
		For Class 200, Deduct	*-151.23*	
		For Class 300, Add	*531.44*	
40 05 23 23-0983	EA	1-1/4" Gate Valve, Stainless Steel, Flanged	832.33	88.72
		For Work In Restricted Working Space, Add	*33.06*	
		For Class 200, Deduct	*-193.17*	
		For Class 300, Add	*678.79*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0984	EA	1-1/2" Gate Valve, Stainless Steel, Flanged	940.09	111.68
		For Work In Restricted Working Space, Add	*41.88*	
		For Class 200, Deduct	*-214.13*	
		For Class 300, Add	*752.46*	
40 05 23 23-0985	EA	2" Gate Valve, Stainless Steel, Flanged	1,116.31	135.16
		For Work In Restricted Working Space, Add	*50.70*	
		For Class 200, Deduct	*-253.41*	
		For Class 300, Add	*890.48*	
40 05 23 23-0986	EA	2-1/2" Gate Valve, Stainless Steel, Flanged	1,597.67	147.02
		For Work In Restricted Working Space, Add	*55.31*	
		For Class 300, Add	*1,328.52*	
40 05 23 23-0987	EA	3" Gate Valve, Stainless Steel, Flanged	1,800.31	172.37
		For Work In Restricted Working Space, Add	*64.72*	
		For Class 300, Add	*1,489.51*	
40 05 23 23-0988	EA	4" Gate Valve, Stainless Steel, Flanged	2,389.19	288.97
		For Work In Restricted Working Space, Add	*108.64*	
		For Class 300, Add	*1,905.44*	
40 05 23 23-0989	EA	6" Gate Valve, Stainless Steel, Flanged	3,981.42	365.02
		For Work In Restricted Working Space, Add	*137.37*	
		For Class 300, Add	*3,312.10*	
40 05 23 23-0990	EA	8" Gate Valve, Stainless Steel, Flanged	8,642.57	466.41
		For Work In Restricted Working Space, Add	*173.82*	
		For Class 300, Add	*7,579.39*	
40 05 23 23-0991	EA	10" Gate Valve, Stainless Steel, Flanged	12,169.15	567.81
		For Work In Restricted Working Space, Add	*212.93*	
		For Class 300, Add	*10,771.84*	
40 05 23 23-0992	EA	12" Gate Valve, Stainless Steel, Flanged	18,300.13	689.47
		For Work In Restricted Working Space, Add	*258.09*	
		For Class 300, Add	*16,393.43*	

40 05 23 23-0993 Globe Valves, Class 150 *(40 05 23 23-0978)*

40 05 23 23-0994	EA	1/2" Globe Valve, Stainless Steel, Flanged	670.64	48.67
		For Work In Restricted Working Space, Add	*18.25*	
		For Class 200, Deduct	*-163.12*	
		For Class 300, Add	*573.22*	
40 05 23 23-0995	EA	3/4" Globe Valve, Stainless Steel, Flanged	742.65	50.70
		For Work In Restricted Working Space, Add	*21.29*	
		For Class 200, Deduct	*-179.67*	
		For Class 300, Add	*631.37*	
40 05 23 23-0996	EA	1" Globe Valve, Stainless Steel, Flanged	926.40	76.05
		For Work In Restricted Working Space, Add	*28.70*	
		For Class 200, Deduct	*-222.23*	
		For Class 300, Add	*780.91*	
40 05 23 23-0997	EA	1-1/2" Globe Valve, Stainless Steel, Flanged	1,376.89	111.68
		For Work In Restricted Working Space, Add	*41.88*	
		For Class 200, Deduct	*-330.98*	
		For Class 300, Add	*1,163.05*	
40 05 23 23-0998	EA	2" Globe Valve, Stainless Steel, Flanged	1,680.25	135.16
		For Work In Restricted Working Space, Add	*50.70*	
		For Class 200, Deduct	*-404.26*	
		For Class 300, Add	*1,420.58*	
40 05 23 23-0999	EA	2-1/2" Globe Valve, Stainless Steel, Flanged	3,365.96	147.02
		For Work In Restricted Working Space, Add	*55.31*	
		For Class 300, Add	*2,990.71*	
40 05 23 23-1000	EA	3" Globe Valve, Stainless Steel, Flanged	3,485.72	172.37
		For Work In Restricted Working Space, Add	*64.72*	
		For Class 300, Add	*3,073.79*	
40 05 23 23-1001	EA	4" Globe Valve, Stainless Steel, Flanged	4,162.37	288.97
		For Work In Restricted Working Space, Add	*108.64*	
		For Class 300, Add	*3,572.23*	
40 05 23 23-1002	EA	6" Globe Valve, Stainless Steel, Flanged	7,660.70	365.02
		For Work In Restricted Working Space, Add	*137.37*	
		For Class 300, Add	*6,770.62*	

40 05 23 23-1003 Check Valves, Class 150 *(40 05 23 23-0978)*

40 05 23 23-1004	EA	2-1/2" Check Valve, Stainless Steel, Flanged	1,529.85	147.02
		For Work In Restricted Working Space, Add	*55.31*	
		For Class 300, Add	*1,264.77*	
40 05 23 23-1005	EA	3" Check Valve, Stainless Steel, Flanged	1,603.18	172.37
		For Work In Restricted Working Space, Add	*64.72*	
		For Class 300, Add	*1,304.20*	
40 05 23 23-1006	EA	4" Check Valve, Stainless Steel, Flanged	2,521.42	288.97
		For Work In Restricted Working Space, Add	*108.64*	
		For Class 300, Add	*2,029.73*	
40 05 23 23-1007	EA	6" Check Valve, Stainless Steel, Flanged	4,317.07	365.02
		For Work In Restricted Working Space, Add	*137.37*	
		For Class 300, Add	*3,627.61*	
40 05 23 23-1008	EA	8" Check Valve, Stainless Steel, Flanged	7,562.61	466.41
		For Work In Restricted Working Space, Add	*173.82*	
		For Class 300, Add	*6,564.23*	

40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings *(40 05 23 23-0231)*

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1010	EA	1/2", Stainless Steel Thread-o-let Fitting	76.76	29.43
		For Work In Restricted Working Space, Add	*19.63*	
40 05 23 23-1011	EA	3/4", Stainless Steel Thread-o-let Fitting	101.40	39.24
		For Work In Restricted Working Space, Add	*26.17*	
40 05 23 23-1012	EA	1", Stainless Steel Thread-o-let Fitting	125.03	48.67
		For Work In Restricted Working Space, Add	*32.45*	
40 05 23 23-1013	EA	1-1/4", Stainless Steel Thread-o-let Fitting	179.25	68.87
		For Work In Restricted Working Space, Add	*45.92*	
40 05 23 23-1014	EA	1-1/2", Stainless Steel Thread-o-let Fitting	198.78	77.67
		For Work In Restricted Working Space, Add	*51.77*	
40 05 23 23-1015	EA	2", Stainless Steel Thread-o-let Fitting	249.06	98.66
		For Work In Restricted Working Space, Add	*65.77*	
40 05 23 23-1016	EA	2-1/2", Stainless Steel Thread-o-let Fitting	438.04	152.09
		For Work In Restricted Working Space, Add	*101.39*	
40 05 23 23-1017	EA	3", Stainless Steel Thread-o-let Fitting	584.00	194.16
		For Work In Restricted Working Space, Add	*129.44*	
40 05 23 23-1018	EA	4", Stainless Steel Thread-o-let Fitting	766.40	243.34
		For Work In Restricted Working Space, Add	*162.23*	

40 05 23 23-1019 Stainless Steel Flanges *(40 05 23 23-0231)*

40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange *(40 05 23 23-1019)*

40 05 23 23-1021	EA	1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	53.98	16.36
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-1022	EA	3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	67.24	21.81
		For Work In Restricted Working Space, Add	*13.08*	
40 05 23 23-1023	EA	1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	80.56	27.04
		For Work In Restricted Working Space, Add	*16.22*	
40 05 23 23-1024	EA	1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	110.09	38.27
		For Work In Restricted Working Space, Add	*22.96*	
40 05 23 23-1025	EA	1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	119.86	43.15
		For Work In Restricted Working Space, Add	*25.89*	
40 05 23 23-1026	EA	2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	153.59	54.80
		For Work In Restricted Working Space, Add	*32.89*	
40 05 23 23-1027	EA	2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	230.44	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-1028	EA	3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	280.02	172.37
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-1029	EA	4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange	358.32	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange *(40 05 23 23-1019)*

40 05 23 23-1031	EA	1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	66.28	16.36
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-1032	EA	3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	77.18	21.81
		For Work In Restricted Working Space, Add	*13.08*	
40 05 23 23-1033	EA	1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	87.65	27.04
		For Work In Restricted Working Space, Add	*16.22*	
40 05 23 23-1034	EA	1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	128.06	38.27
		For Work In Restricted Working Space, Add	*22.96*	
40 05 23 23-1035	EA	1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	137.83	43.15
		For Work In Restricted Working Space, Add	*25.89*	
40 05 23 23-1036	EA	2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	172.02	54.80
		For Work In Restricted Working Space, Add	*32.89*	
40 05 23 23-1037	EA	2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	271.57	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-1038	EA	3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	322.09	172.37
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-1039	EA	4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange	423.08	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange *(40 05 23 23-1019)*

40 05 23 23-1041	EA	1/2", 150#, Type 304 Stainless Steel Weld Neck Flange	75.23	24.27
		For Work In Restricted Working Space, Add	*16.19*	
40 05 23 23-1042	EA	3/4", 150#, Type 304 Stainless Steel Weld Neck Flange	80.91	25.76
		For Work In Restricted Working Space, Add	*17.18*	
40 05 23 23-1043	EA	1", 150#, Type 304 Stainless Steel Weld Neck Flange	90.36	28.32
		For Work In Restricted Working Space, Add	*18.89*	
40 05 23 23-1044	EA	1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange	107.91	30.89
		For Work In Restricted Working Space, Add	*20.60*	
40 05 23 23-1045	EA	1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange	114.93	34.05
		For Work In Restricted Working Space, Add	*22.70*	
40 05 23 23-1046	EA	2", 150#, Type 304 Stainless Steel Weld Neck Flange	127.80	37.94
		For Work In Restricted Working Space, Add	*25.29*	
40 05 23 23-1047	EA	2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange	173.52	48.51
		For Work In Restricted Working Space, Add	*32.34*	
40 05 23 23-1048	EA	3", 150#, Type 304 Stainless Steel Weld Neck Flange	198.07	56.80
		For Work In Restricted Working Space, Add	*37.86*	
40 05 23 23-1049	EA	4", 150#, Type 304 Stainless Steel Weld Neck Flange	251.44	68.05
		For Work In Restricted Working Space, Add	*45.37*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1050	EA	6", 150#, Type 304 Stainless Steel Weld Neck Flange	361.96	85.02
		For Work In Restricted Working Space, Add	*56.69*	
40 05 23 23-1051	EA	8", 150#, Type 304 Stainless Steel Weld Neck Flange	616.34	145.46
		For Work In Restricted Working Space, Add	*96.98*	
40 05 23 23-1052	EA	10", 150#, Type 304 Stainless Steel Weld Neck Flange	863.53	193.95
		For Work In Restricted Working Space, Add	*129.31*	
40 05 23 23-1053	EA	12", 150#, Type 304 Stainless Steel Weld Neck Flange	1,321.52	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-1054	EA	14", 150#, Type 304 Stainless Steel Weld Neck Flange	1,631.45	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-1055	EA	16", 150#, Type 304 Stainless Steel Weld Neck Flange	2,005.04	387.18
		For Work In Restricted Working Space, Add	*258.12*	
40 05 23 23-1056	EA	18", 150#, Type 304 Stainless Steel Weld Neck Flange	2,468.03	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-1057	EA	20", 150#, Type 304 Stainless Steel Weld Neck Flange	3,240.90	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-1058	EA	24", 150#, Type 304 Stainless Steel Weld Neck Flange	4,609.98	969.80
		For Work In Restricted Working Space, Add	*646.53*	

40 05 23 23-1059 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange *(40 05 23 23-1019)*

40 05 23 23-1060	EA	1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	89.89	24.27
		For Work In Restricted Working Space, Add	*16.19*	
40 05 23 23-1061	EA	3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	93.21	25.76
		For Work In Restricted Working Space, Add	*17.18*	
40 05 23 23-1062	EA	1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	98.88	28.32
		For Work In Restricted Working Space, Add	*18.89*	
40 05 23 23-1063	EA	1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	124.43	30.89
		For Work In Restricted Working Space, Add	*20.60*	
40 05 23 23-1064	EA	1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	131.45	34.05
		For Work In Restricted Working Space, Add	*22.70*	
40 05 23 23-1065	EA	2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	141.98	37.94
		For Work In Restricted Working Space, Add	*25.29*	
40 05 23 23-1066	EA	2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	198.09	48.51
		For Work In Restricted Working Space, Add	*32.34*	
40 05 23 23-1067	EA	3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	225.48	56.80
		For Work In Restricted Working Space, Add	*37.86*	
40 05 23 23-1068	EA	4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	315.71	68.05
		For Work In Restricted Working Space, Add	*45.37*	
40 05 23 23-1069	EA	6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	434.75	85.02
		For Work In Restricted Working Space, Add	*56.69*	
40 05 23 23-1070	EA	8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	797.85	145.46
		For Work In Restricted Working Space, Add	*96.98*	
40 05 23 23-1071	EA	10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	1,103.20	193.95
		For Work In Restricted Working Space, Add	*129.31*	
40 05 23 23-1072	EA	12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	1,625.96	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-1073	EA	14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	2,112.69	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-1074	EA	16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	2,580.55	387.18
		For Work In Restricted Working Space, Add	*258.12*	
40 05 23 23-1075	EA	18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	3,287.54	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-1076	EA	20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	4,289.43	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-1077	EA	24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange	6,229.38	969.80
		For Work In Restricted Working Space, Add	*646.53*	

40 05 23 23-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges *(40 05 23 23-1019)*

40 05 23 23-1079	EA	1/2", 150#, Type 304 Stainless Steel Slip-On Flange	126.82	48.55
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-1080	EA	3/4", 150#, Type 304 Stainless Steel Slip-On Flange	133.94	51.54
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-1081	EA	1", 150#, Type 304 Stainless Steel Slip-On Flange	147.17	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-1082	EA	1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange	166.16	61.79
		For Work In Restricted Working Space, Add	*41.20*	
40 05 23 23-1083	EA	1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange	180.19	68.11
		For Work In Restricted Working Space, Add	*45.41*	
40 05 23 23-1084	EA	2", 150#, Type 304 Stainless Steel Slip-On Flange	205.97	75.87
		For Work In Restricted Working Space, Add	*50.58*	
40 05 23 23-1085	EA	2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange	268.07	97.01
		For Work In Restricted Working Space, Add	*64.68*	
40 05 23 23-1086	EA	3", 150#, Type 304 Stainless Steel Slip-On Flange	308.69	113.58
		For Work In Restricted Working Space, Add	*75.73*	
40 05 23 23-1087	EA	4", 150#, Type 304 Stainless Steel Slip-On Flange	379.05	136.10
		For Work In Restricted Working Space, Add	*90.74*	
40 05 23 23-1088	EA	6", 150#, Type 304 Stainless Steel Slip-On Flange	494.65	170.04
		For Work In Restricted Working Space, Add	*113.37*	
40 05 23 23-1089	EA	8", 150#, Type 304 Stainless Steel Slip-On Flange	867.29	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-1090	EA	10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange	1,204.74	387.92
		For Work In Restricted Working Space, Add	*258.61*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1091	EA	12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange	1,799.32	581.87
		For Work In Restricted Working Space, Add	*387.92*	

40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges *(40 05 23 23-1019)*

40 05 23 23-1093	EA	1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange	136.27	48.55
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-1094	EA	3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	142.91	51.54
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-1095	EA	1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	154.26	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-1096	EA	1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	180.82	61.79
		For Work In Restricted Working Space, Add	*41.20*	
40 05 23 23-1097	EA	1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	194.85	68.11
		For Work In Restricted Working Space, Add	*45.41*	
40 05 23 23-1098	EA	2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	215.88	75.87
		For Work In Restricted Working Space, Add	*50.58*	
40 05 23 23-1099	EA	2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	304.96	97.01
		For Work In Restricted Working Space, Add	*64.68*	
40 05 23 23-1100	EA	3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	345.55	113.58
		For Work In Restricted Working Space, Add	*75.73*	
40 05 23 23-1101	EA	4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	430.09	136.10
		For Work In Restricted Working Space, Add	*90.74*	
40 05 23 23-1102	EA	6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	638.83	170.04
		For Work In Restricted Working Space, Add	*113.37*	
40 05 23 23-1103	EA	8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	1,012.87	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-1104	EA	10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	1,439.20	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-1105	EA	12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange	2,100.91	581.87
		For Work In Restricted Working Space, Add	*387.92*	

40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges *(40 05 23 23-1019)*

40 05 23 23-1107	EA	1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange	41.75	9.71
		For Work In Restricted Working Space, Add	*6.47*	
40 05 23 23-1108	EA	3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange	43.70	10.30
		For Work In Restricted Working Space, Add	*6.87*	
40 05 23 23-1109	EA	1", 150#, Type 304 Stainless Steel Raised Face Blind Flange	47.41	11.32
		For Work In Restricted Working Space, Add	*7.55*	
40 05 23 23-1110	EA	1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange	59.70	12.61
		For Work In Restricted Working Space, Add	*8.41*	
40 05 23 23-1111	EA	1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange	69.54	17.04
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-1112	EA	2", 150#, Type 304 Stainless Steel Raised Face Blind Flange	81.29	18.91
		For Work In Restricted Working Space, Add	*12.61*	
40 05 23 23-1113	EA	2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange	109.82	24.32
		For Work In Restricted Working Space, Add	*16.22*	
40 05 23 23-1114	EA	3", 150#, Type 304 Stainless Steel Raised Face Blind Flange	137.19	34.08
		For Work In Restricted Working Space, Add	*22.72*	
40 05 23 23-1115	EA	4", 150#, Type 304 Stainless Steel Raised Face Blind Flange	212.23	56.79
		For Work In Restricted Working Space, Add	*37.86*	
40 05 23 23-1116	EA	6", 150#, Type 304 Stainless Steel Raised Face Blind Flange	288.01	73.02
		For Work In Restricted Working Space, Add	*48.68*	
40 05 23 23-1117	EA	8", 150#, Type 304 Stainless Steel Raised Face Blind Flange	431.35	90.51
		For Work In Restricted Working Space, Add	*60.34*	
40 05 23 23-1118	EA	10", 150#, Type 304 Stainless Steel Raised Face Blind Flange	641.27	108.62
		For Work In Restricted Working Space, Add	*72.41*	
40 05 23 23-1119	EA	12", 150#, Type 304 Stainless Steel Raised Face Blind Flange	842.94	135.78
		For Work In Restricted Working Space, Add	*90.51*	
40 05 23 23-1120	EA	14", 150#, Type 304 Stainless Steel Raised Face Blind Flange	1,069.50	169.72
		For Work In Restricted Working Space, Add	*113.14*	
40 05 23 23-1121	EA	16", 150#, Type 304 Stainless Steel Raised Face Blind Flange	1,361.65	193.59
		For Work In Restricted Working Space, Add	*129.06*	
40 05 23 23-1122	EA	18", 150#, Type 304 Stainless Steel Raised Face Blind Flange	1,619.67	242.44
		For Work In Restricted Working Space, Add	*161.64*	
40 05 23 23-1123	EA	20", 150#, Type 304 Stainless Steel Raised Face Blind Flange	2,163.92	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-1124	EA	24", 150#, Type 304 Stainless Steel Raised Face Blind Flange	3,144.67	484.90
		For Work In Restricted Working Space, Add	*323.27*	

40 05 23 23-1125 300#, Type 304 Stainless Steel Blind Flanges *(40 05 23 23-1019)*

40 05 23 23-1126	EA	1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	51.37	9.71
		For Work In Restricted Working Space, Add	*6.47*	
40 05 23 23-1127	EA	3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	52.70	10.30
		For Work In Restricted Working Space, Add	*6.87*	
40 05 23 23-1128	EA	1", 300#, Type 304 Stainless Steel Raised Face Blind Flange	54.97	11.32
		For Work In Restricted Working Space, Add	*7.55*	
40 05 23 23-1129	EA	1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	68.68	12.61
		For Work In Restricted Working Space, Add	*8.41*	
40 05 23 23-1130	EA	1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	78.52	17.04
		For Work In Restricted Working Space, Add	*11.36*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1131	EA	2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	86.01	18.91
		For Work In Restricted Working Space, Add	*12.61*	
40 05 23 23-1132	EA	2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	142.91	24.32
		For Work In Restricted Working Space, Add	*16.22*	
40 05 23 23-1133	EA	3", 300#, Type 304 Stainless Steel Raised Face Blind Flange	168.15	34.08
		For Work In Restricted Working Space, Add	*22.72*	
40 05 23 23-1134	EA	4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	250.98	56.79
		For Work In Restricted Working Space, Add	*37.86*	
40 05 23 23-1135	EA	6", 300#, Type 304 Stainless Steel Raised Face Blind Flange	447.77	73.02
		For Work In Restricted Working Space, Add	*48.68*	
40 05 23 23-1136	EA	8", 300#, Type 304 Stainless Steel Raised Face Blind Flange	622.31	90.51
		For Work In Restricted Working Space, Add	*60.34*	
40 05 23 23-1137	EA	10", 300#, Type 304 Stainless Steel Raised Face Blind Flange	873.82	108.62
		For Work In Restricted Working Space, Add	*72.41*	
40 05 23 23-1138	EA	12", 300#, Type 304 Stainless Steel Raised Face Blind Flange	1,199.82	135.78
		For Work In Restricted Working Space, Add	*90.51*	
40 05 23 23-1139	EA	14", 300#, Type 304 Stainless Steel Raised Face Blind Flange	1,664.74	169.72
		For Work In Restricted Working Space, Add	*113.14*	
40 05 23 23-1140	EA	16", 300#, Type 304 Stainless Steel Raised Face Blind Flange	2,113.16	193.59
		For Work In Restricted Working Space, Add	*129.06*	
40 05 23 23-1141	EA	18", 300#, Type 304 Stainless Steel Raised Face Blind Flange	2,750.69	242.44
		For Work In Restricted Working Space, Add	*161.64*	
40 05 23 23-1142	EA	20", 300#, Type 304 Stainless Steel Raised Face Blind Flange	3,505.80	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-1143	EA	24", 300#, Type 304 Stainless Steel Raised Face Blind Flange	5,351.75	484.90
		For Work In Restricted Working Space, Add	*323.27*	

40 05 23 23-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange *(40 05 23 23-1019)*

40 05 23 23-1145	EA	1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	62.50	16.36
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-1146	EA	3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	78.13	21.81
		For Work In Restricted Working Space, Add	*13.08*	
40 05 23 23-1147	EA	1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	90.94	27.04
		For Work In Restricted Working Space, Add	*16.22*	
40 05 23 23-1148	EA	1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	125.68	38.27
		For Work In Restricted Working Space, Add	*22.96*	
40 05 23 23-1149	EA	1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	135.45	43.15
		For Work In Restricted Working Space, Add	*25.89*	
40 05 23 23-1150	EA	2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	170.62	54.80
		For Work In Restricted Working Space, Add	*32.89*	
40 05 23 23-1151	EA	2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	255.03	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-1152	EA	3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	311.70	172.37
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-1153	EA	4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	402.74	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange *(40 05 23 23-1019)*

40 05 23 23-1155	EA	1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	78.57	16.36
		For Work In Restricted Working Space, Add	*9.81*	
40 05 23 23-1156	EA	3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	89.47	21.81
		For Work In Restricted Working Space, Add	*13.08*	
40 05 23 23-1157	EA	1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	99.94	27.04
		For Work In Restricted Working Space, Add	*16.22*	
40 05 23 23-1158	EA	1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	151.70	38.27
		For Work In Restricted Working Space, Add	*22.96*	
40 05 23 23-1159	EA	1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	161.47	43.15
		For Work In Restricted Working Space, Add	*25.89*	
40 05 23 23-1160	EA	2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	192.82	54.80
		For Work In Restricted Working Space, Add	*32.89*	
40 05 23 23-1161	EA	2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	318.37	84.46
		For Work In Restricted Working Space, Add	*50.70*	
40 05 23 23-1162	EA	3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	369.83	172.37
		For Work In Restricted Working Space, Add	*64.72*	
40 05 23 23-1163	EA	4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	499.17	135.16
		For Work In Restricted Working Space, Add	*81.12*	

40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange *(40 05 23 23-1019)*

40 05 23 23-1165	EA	1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	86.09	24.27
		For Work In Restricted Working Space, Add	*16.19*	
40 05 23 23-1166	EA	3/4", 150#, Type 316 Stainless Steel Weld Neck Flange	91.80	25.76
		For Work In Restricted Working Space, Add	*17.18*	
40 05 23 23-1167	EA	1", 150#, Type 316 Stainless Steel Weld Neck Flange	102.65	28.32
		For Work In Restricted Working Space, Add	*18.89*	
40 05 23 23-1168	EA	1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange	123.97	30.89
		For Work In Restricted Working Space, Add	*20.60*	
40 05 23 23-1169	EA	1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	130.99	34.05
		For Work In Restricted Working Space, Add	*22.70*	
40 05 23 23-1170	EA	2", 150#, Type 316 Stainless Steel Weld Neck Flange	144.34	37.94
		For Work In Restricted Working Space, Add	*25.29*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1171	EA	2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	201.38	48.51
		For Work In Restricted Working Space, Add	*32.34*	
40 05 23 23-1172	EA	3", 150#, Type 316 Stainless Steel Weld Neck Flange	223.11	56.80
		For Work In Restricted Working Space, Add	*37.86*	
40 05 23 23-1173	EA	4", 150#, Type 316 Stainless Steel Weld Neck Flange	293.98	68.05
		For Work In Restricted Working Space, Add	*45.37*	
40 05 23 23-1174	EA	6", 150#, Type 316 Stainless Steel Weld Neck Flange	435.70	85.02
		For Work In Restricted Working Space, Add	*56.69*	
40 05 23 23-1175	EA	8", 150#, Type 316 Stainless Steel Weld Neck Flange	730.26	145.46
		For Work In Restricted Working Space, Add	*96.98*	
40 05 23 23-1176	EA	10", 150#, Type 316 Stainless Steel Weld Neck Flange	1,053.56	193.95
		For Work In Restricted Working Space, Add	*129.31*	
40 05 23 23-1177	EA	12", 150#, Type 316 Stainless Steel Weld Neck Flange	1,572.55	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-1178	EA	14", 150#, Type 316 Stainless Steel Weld Neck Flange	1,839.35	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-1179	EA	16", 150#, Type 316 Stainless Steel Weld Neck Flange	2,276.34	387.18
		For Work In Restricted Working Space, Add	*258.12*	
40 05 23 23-1180	EA	18", 150#, Type 316 Stainless Steel Weld Neck Flange	2,797.60	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-1181	EA	20", 150#, Type 316 Stainless Steel Weld Neck Flange	3,651.50	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-1182	EA	24", 150#, Type 316 Stainless Steel Weld Neck Flange	5,191.83	969.80
		For Work In Restricted Working Space, Add	*646.53*	

40 05 23 23-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange *(40 05 23 23-1019)*

40 05 23 23-1184	EA	1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	104.07	24.27
		For Work In Restricted Working Space, Add	*16.19*	
40 05 23 23-1185	EA	3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	107.39	25.76
		For Work In Restricted Working Space, Add	*17.18*	
40 05 23 23-1186	EA	1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	113.06	28.32
		For Work In Restricted Working Space, Add	*18.89*	
40 05 23 23-1187	EA	1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	143.84	30.89
		For Work In Restricted Working Space, Add	*20.60*	
40 05 23 23-1188	EA	1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	150.86	34.05
		For Work In Restricted Working Space, Add	*22.70*	
40 05 23 23-1189	EA	2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	165.61	37.94
		For Work In Restricted Working Space, Add	*25.29*	
40 05 23 23-1190	EA	2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	238.75	48.51
		For Work In Restricted Working Space, Add	*32.34*	
40 05 23 23-1191	EA	3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	263.77	56.80
		For Work In Restricted Working Space, Add	*37.86*	
40 05 23 23-1192	EA	4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	386.61	68.05
		For Work In Restricted Working Space, Add	*45.37*	
40 05 23 23-1193	EA	6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	610.12	85.02
		For Work In Restricted Working Space, Add	*56.69*	
40 05 23 23-1194	EA	8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	977.02	145.46
		For Work In Restricted Working Space, Add	*96.98*	
40 05 23 23-1195	EA	10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	1,393.42	193.95
		For Work In Restricted Working Space, Add	*129.31*	
40 05 23 23-1196	EA	12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	2,052.31	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-1197	EA	14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	2,732.81	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-1198	EA	16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	3,365.80	387.18
		For Work In Restricted Working Space, Add	*258.12*	
40 05 23 23-1199	EA	18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	4,296.42	484.90
		For Work In Restricted Working Space, Add	*323.27*	
40 05 23 23-1200	EA	20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	5,558.91	678.86
		For Work In Restricted Working Space, Add	*452.57*	
40 05 23 23-1201	EA	24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange	8,089.30	969.80
		For Work In Restricted Working Space, Add	*646.53*	

40 05 23 23-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges *(40 05 23 23-1019)*

40 05 23 23-1203	EA	1/2", 150#, Type 316 Stainless Steel Slip-On Flange	132.50	48.55
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-1204	EA	3/4", 150#, Type 316 Stainless Steel Slip-On Flange	142.46	51.54
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-1205	EA	1", 150#, Type 316 Stainless Steel Slip-On Flange	156.94	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-1206	EA	1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange	201.78	61.79
		For Work In Restricted Working Space, Add	*41.20*	
40 05 23 23-1207	EA	1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange	191.53	68.11
		For Work In Restricted Working Space, Add	*45.41*	
40 05 23 23-1208	EA	2", 150#, Type 316 Stainless Steel Slip-On Flange	208.79	75.87
		For Work In Restricted Working Space, Add	*50.58*	
40 05 23 23-1209	EA	2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange	266.19	97.01
		For Work In Restricted Working Space, Add	*64.68*	
40 05 23 23-1210	EA	3", 150#, Type 316 Stainless Steel Slip-On Flange	324.76	113.58
		For Work In Restricted Working Space, Add	*75.73*	
40 05 23 23-1211	EA	4", 150#, Type 316 Stainless Steel Slip-On Flange	413.06	136.10
		For Work In Restricted Working Space, Add	*90.74*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1212	EA	6", 150#, Type 316 Stainless Steel Slip-On Flange	545.22	170.04
		For Work In Restricted Working Space, Add	*113.37*	
40 05 23 23-1213	EA	8", 150#, Type 316 Stainless Steel Slip-On Flange	971.73	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-1214	EA	10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange	1,347.50	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-1215	EA	12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange	1,990.28	581.87
		For Work In Restricted Working Space, Add	*387.92*	

40 05 23 23-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges *(40 05 23 23-1019)*

40 05 23 23-1217	EA	1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange	145.73	48.55
		For Work In Restricted Working Space, Add	*32.37*	
40 05 23 23-1218	EA	3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	152.37	51.54
		For Work In Restricted Working Space, Add	*34.37*	
40 05 23 23-1219	EA	1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	163.72	56.65
		For Work In Restricted Working Space, Add	*37.77*	
40 05 23 23-1220	EA	1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	199.25	61.79
		For Work In Restricted Working Space, Add	*41.20*	
40 05 23 23-1221	EA	1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	213.28	68.11
		For Work In Restricted Working Space, Add	*45.41*	
40 05 23 23-1222	EA	2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	233.31	75.87
		For Work In Restricted Working Space, Add	*50.58*	
40 05 23 23-1223	EA	2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	346.07	97.01
		For Work In Restricted Working Space, Add	*64.68*	
40 05 23 23-1224	EA	3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	387.61	113.58
		For Work In Restricted Working Space, Add	*75.73*	
40 05 23 23-1225	EA	4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	495.31	136.10
		For Work In Restricted Working Space, Add	*90.74*	
40 05 23 23-1226	EA	6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	733.84	170.04
		For Work In Restricted Working Space, Add	*113.37*	
40 05 23 23-1227	EA	8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	1,110.72	290.93
		For Work In Restricted Working Space, Add	*193.96*	
40 05 23 23-1228	EA	10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	1,757.79	387.92
		For Work In Restricted Working Space, Add	*258.61*	
40 05 23 23-1229	EA	12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange	2,381.68	581.87
		For Work In Restricted Working Space, Add	*387.92*	

40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges *(40 05 23 23-1019)*

40 05 23 23-1231	EA	1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange	46.17	9.71
		For Work In Restricted Working Space, Add	*6.47*	
40 05 23 23-1232	EA	3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange	51.75	10.30
		For Work In Restricted Working Space, Add	*6.87*	
40 05 23 23-1233	EA	1", 150#, Type 316 Stainless Steel Raised Face Blind Flange	58.27	11.32
		For Work In Restricted Working Space, Add	*7.55*	
40 05 23 23-1234	EA	1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange	68.20	12.61
		For Work In Restricted Working Space, Add	*8.41*	
40 05 23 23-1235	EA	1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange	78.04	17.04
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-1236	EA	2", 150#, Type 316 Stainless Steel Raised Face Blind Flange	95.47	18.91
		For Work In Restricted Working Space, Add	*12.61*	
40 05 23 23-1237	EA	2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange	132.04	24.32
		For Work In Restricted Working Space, Add	*16.22*	
40 05 23 23-1238	EA	3", 150#, Type 316 Stainless Steel Raised Face Blind Flange	161.78	34.08
		For Work In Restricted Working Space, Add	*22.72*	
40 05 23 23-1239	EA	4", 150#, Type 316 Stainless Steel Raised Face Blind Flange	253.82	56.79
		For Work In Restricted Working Space, Add	*37.86*	
40 05 23 23-1240	EA	6", 150#, Type 316 Stainless Steel Raised Face Blind Flange	354.66	73.02
		For Work In Restricted Working Space, Add	*48.68*	
40 05 23 23-1241	EA	8", 150#, Type 316 Stainless Steel Raised Face Blind Flange	590.63	90.51
		For Work In Restricted Working Space, Add	*60.34*	
40 05 23 23-1242	EA	10", 150#, Type 316 Stainless Steel Raised Face Blind Flange	767.01	108.62
		For Work In Restricted Working Space, Add	*72.41*	
40 05 23 23-1243	EA	12", 150#, Type 316 Stainless Steel Raised Face Blind Flange	1,205.51	135.78
		For Work In Restricted Working Space, Add	*90.51*	
40 05 23 23-1244	EA	14", 150#, Type 316 Stainless Steel Raised Face Blind Flange	1,440.70	169.72
		For Work In Restricted Working Space, Add	*113.14*	
40 05 23 23-1245	EA	16", 150#, Type 316 Stainless Steel Raised Face Blind Flange	1,861.04	193.59
		For Work In Restricted Working Space, Add	*129.06*	
40 05 23 23-1246	EA	18", 150#, Type 316 Stainless Steel Raised Face Blind Flange	2,199.17	242.44
		For Work In Restricted Working Space, Add	*161.64*	
40 05 23 23-1247	EA	20", 150#, Type 316 Stainless Steel Raised Face Blind Flange	2,919.68	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-1248	EA	24", 150#, Type 316 Stainless Steel Raised Face Blind Flange	4,252.94	484.90
		For Work In Restricted Working Space, Add	*323.27*	

40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges *(40 05 23 23-1019)*

40 05 23 23-1250	EA	1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange	67.44	9.71
		For Work In Restricted Working Space, Add	*6.47*	
40 05 23 23-1251	EA	3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange	68.77	10.30
		For Work In Restricted Working Space, Add	*6.87*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1252	EA	1", 300#, Type 316 Stainless Steel Raised Face Blind Flange	71.04	11.32
		For Work In Restricted Working Space, Add	*7.55*	
40 05 23 23-1253	EA	1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange	103.20	12.61
		For Work In Restricted Working Space, Add	*8.41*	
40 05 23 23-1254	EA	1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange	113.04	17.04
		For Work In Restricted Working Space, Add	*11.36*	
40 05 23 23-1255	EA	2", 300#, Type 316 Stainless Steel Raised Face Blind Flange	125.24	18.91
		For Work In Restricted Working Space, Add	*12.61*	
40 05 23 23-1256	EA	2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange	203.43	24.32
		For Work In Restricted Working Space, Add	*16.22*	
40 05 23 23-1257	EA	3", 300#, Type 316 Stainless Steel Raised Face Blind Flange	229.84	34.08
		For Work In Restricted Working Space, Add	*22.72*	
40 05 23 23-1258	EA	4", 300#, Type 316 Stainless Steel Raised Face Blind Flange	354.97	56.79
		For Work In Restricted Working Space, Add	*37.86*	
40 05 23 23-1259	EA	6", 300#, Type 316 Stainless Steel Raised Face Blind Flange	625.05	73.02
		For Work In Restricted Working Space, Add	*48.68*	
40 05 23 23-1260	EA	8", 300#, Type 316 Stainless Steel Raised Face Blind Flange	805.73	90.51
		For Work In Restricted Working Space, Add	*60.34*	
40 05 23 23-1261	EA	10", 300#, Type 316 Stainless Steel Raised Face Blind Flange	1,407.03	108.62
		For Work In Restricted Working Space, Add	*72.41*	
40 05 23 23-1262	EA	12", 300#, Type 316 Stainless Steel Raised Face Blind Flange	1,718.38	135.78
		For Work In Restricted Working Space, Add	*90.51*	
40 05 23 23-1263	EA	14", 300#, Type 316 Stainless Steel Raised Face Blind Flange	2,461.21	169.72
		For Work In Restricted Working Space, Add	*113.14*	
40 05 23 23-1264	EA	16", 300#, Type 316 Stainless Steel Raised Face Blind Flange	3,154.19	193.59
		For Work In Restricted Working Space, Add	*129.06*	
40 05 23 23-1265	EA	18", 300#, Type 316 Stainless Steel Raised Face Blind Flange	4,118.89	242.44
		For Work In Restricted Working Space, Add	*161.64*	
40 05 23 23-1266	EA	20", 300#, Type 316 Stainless Steel Raised Face Blind Flange	5,207.80	339.43
		For Work In Restricted Working Space, Add	*226.29*	
40 05 23 23-1267	EA	24", 300#, Type 316 Stainless Steel Raised Face Blind Flange	7,995.62	484.90
		For Work In Restricted Working Space, Add	*323.27*	

40 05 23 23-1268 Type 316 Seamless Annealed Tubing *(40 05 23 23)*

Note: For high pressure air (8000 PSIG working pressure).

40 05 23 23-1269 Type 316 Seamless Annealed Tubing *(40 05 23 23-1268)*

40 05 23 23-1270	LF	3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	17.79
40 05 23 23-1271	LF	1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	21.93
40 05 23 23-1272	LF	3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	26.47

40 05 23 23-1273 Type 316 Seamless Annealed Tubing Fittings *(40 05 23 23-1268)*

Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.

40 05 23 23-1274	EA	3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	59.52
40 05 23 23-1275	EA	3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	63.82
40 05 23 23-1276	EA	3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	97.91
40 05 23 23-1277	EA	3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	51.29
40 05 23 23-1278	EA	3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	84.74
40 05 23 23-1279	EA	1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	65.10
40 05 23 23-1280	EA	1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	79.03
40 05 23 23-1281	EA	1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	121.55
40 05 23 23-1282	EA	1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	77.00
40 05 23 23-1283	EA	1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	119.51
40 05 23 23-1284	EA	3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	76.68
40 05 23 23-1285	EA	3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	98.42
40 05 23 23-1286	EA	3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	162.04
40 05 23 23-1287	EA	3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	133.23
40 05 23 23-1288	EA	3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	164.64

40 05 23 23-1289 Valves For High Pressure Air (5,000 PSIG) *(40 05 23 23-1268)*

40 05 23 23-1290 Needle Valves *(40 05 23 23-1289)*

40 05 23 23-1291	EA	3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	293.10
40 05 23 23-1292	EA	1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	463.42

40 05 23 23-1293 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG *(40 05 23 23-1289)*

40 05 23 23-1294	EA	1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction	280.53

40 05 23 23-1295 Other Valves Working Pressure 6,000 PSI *(40 05 23 23-1289)*

40 05 23 23-1296	EA	1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG	1,151.77
40 05 23 23-1297	EA	1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	291.65
40 05 23 23-1298	EA	Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element	58.05

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

41 Material Processing and Handling Equipment

41 01 Operation and Maintenance of Material Processing and Handling Equipment *(41)*

41 01 20 Operation and Maintenance of Piece Material Handling Equipment *(41 01)*

41 01 20 13 Operation And Maintenance Of Hoists Or Cranes *(41 01 20)*

41 01 20 13-0001 Maintenance *(41 01 20 13)*

41 01 20 13-0002	EA	Regular Inspection	351.65	
41 01 20 13-0003	HR	Hoist Or Crane Servicing, Labor Only	105.91	
41 01 20 13-0004	MO	Hoist Or Crane Maintenance Contract	826.50	

41 20 Piece Material Handling Equipment *(41)*

41 22 Cranes and Hoists *(41 20)*

41 22 23 Hoists *(41 22)*

41 22 23 13 Fixed Hoists *(41 22 23)*

41 22 23 13-0001 Air-Powered Chain Hoists *(41 22 23 13)*
Note: Excludes beam.

41 22 23 13-0002	EA	500 LB Capacity, Air-Powered Chain Hoist	4,608.74	326.35
41 22 23 13-0003	EA	1,000 LB Capacity, Air-Powered Chain Hoist	4,660.80	326.35
41 22 23 13-0004	EA	2,000 LB Capacity, Air-Powered Chain Hoist	5,599.27	326.35
41 22 23 13-0005	EA	4,000 LB Capacity, Air-Powered Chain Hoist	7,066.96	435.13
41 22 23 13-0006	EA	6,000 LB Capacity, Air-Powered Chain Hoist	8,926.64	543.91
41 22 23 13-0007	EA	8,000 LB Capacity, Air-Powered Chain Hoist	10,517.21	799.33
41 22 23 13-0008	EA	10,000 LB Capacity, Air-Powered Chain Hoist	12,157.51	965.44
41 22 23 13-0009	EA	12,000 LB Capacity, Air-Powered Chain Hoist	13,529.74	965.44

41 22 23 13-0010 Electric Hoists *(41 22 23 13)*

41 22 23 13-0011 Electric Industrial Chain Hoists *(41 22 23 13-0010)*
Note: Includes 20' of chain. Excludes beams.

41 22 23 13-0012	EA	500 LB Capacity, Electric Industrial Chain Hoist	3,289.76	315.47
		For DC Electrical Operated, Add	*664.23*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0013	EA	1,000 LB Capacity, Electric Industrial Chain Hoist	3,435.03	315.47
		For DC Electrical Operated, Add	*700.12*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0014	EA	2,000 LB Capacity, Electric Industrial Chain Hoist	3,800.43	315.47
		For DC Electrical Operated, Add	*788.87*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0015	EA	3,000 LB Capacity, Electric Industrial Chain Hoist	5,746.51	326.35
		For DC Electrical Operated, Add	*1,268.50*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0016	EA	4,000 LB Capacity, Electric Industrial Chain Hoist	4,946.46	326.35
		For DC Electrical Operated, Add	*1,066.55*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0017	EA	5,000 LB Capacity, Electric Industrial Chain Hoist	7,087.78	337.22
		For DC Electrical Operated, Add	*1,593.11*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0018	EA	6,000 LB Capacity, Electric Industrial Chain Hoist	6,398.58	369.86
		For DC Electrical Operated, Add	*1,390.38*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0019	EA	7,500 LB Capacity, Electric Industrial Chain Hoist	7,923.46	456.89
		For DC Electrical Operated, Add	*1,766.27*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0020	EA	10,000 LB Capacity, Electric Industrial Chain Hoist	9,401.13	480.29
		For DC Electrical Operated, Add	*2,142.56*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0021	EA	15,000 LB Capacity, Electric Industrial Chain Hoist	15,150.71	501.17
		For DC Electrical Operated, Add	*3,536.88*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0022	EA	20,000 LB Capacity, Electric Industrial Chain Hoist	18,163.40	522.05
		For DC Electrical Operated, Add	*4,279.20*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0023	EA	25,000 LB Capacity, Electric Industrial Chain Hoist	25,157.90	542.93
		For DC Electrical Operated, Add	*6,016.67*	
		For Each LF Copper Conductor Bar, Add	*10.50*	
41 22 23 13-0024	EA	30,000 LB Capacity, Electric Industrial Chain Hoist	32,214.30	595.14
		For DC Electrical Operated, Add	*7,754.54*	
		For Each LF Copper Conductor Bar, Add	*10.50*	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
41 22 23 13-0025		**Hand Chain Hoists** *(41 22 23 13)*		
41 22 23 13-0026	EA	1,000 LB Capacity, Hand Chain Hoist	1,211.78	130.04
41 22 23 13-0027	EA	2,000 LB Capacity, Hand Chain Hoist	1,419.13	131.82
41 22 23 13-0028	EA	3,000 LB Capacity, Hand Chain Hoist	1,889.40	138.06
41 22 23 13-0029	EA	4,000 LB Capacity, Hand Chain Hoist	2,120.41	139.83
41 22 23 13-0030	EA	5,000 LB Capacity, Hand Chain Hoist	2,550.22	146.97
41 22 23 13-0031	EA	6,000 LB Capacity, Hand Chain Hoist	2,858.96	171.90
41 22 23 13-0032	EA	10,000 LB Capacity, Hand Chain Hoist	3,939.81	177.25
41 22 23 13-0033	EA	16,000 LB Capacity, Hand Chain Hoist	5,137.80	213.76
41 22 23 13-0034	EA	20,000 LB Capacity, Hand Chain Hoist	6,260.39	223.57
41 22 23 13-0035	EA	30,000 LB Capacity, Hand Chain Hoist	10,978.11	255.63

END OF SECTION 41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 20 Liquid Handling Equipment *(43)*

43 23 Dry Location Liquid Pumps *(43 20)*

43 23 78 Controlled Volume Horizontal Reciprocating Pumps ***(43 23)***

43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ***(43 23 78)***

43 23 78 31-0001 Diaphragm Pump *(43 23 78 31)*

43 23 78 31-0002	EA	28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI	3,135.90	

43 24 Suspended Liquid Pumps *(43 20)*

43 24 41 Archimedes Screw Pumps ***(43 24)***

43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ***(43 24 41)***

43 24 41 23-0001 Positive Displacement Pump *(43 24 41 23)*

43 24 41 23-0002	EA	25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing	2,589.39	

43 40 Gas and Liquid Storage *(43)*

43 42 Pressurized Tanks And Vessels *(43 40)*

43 42 41 Metallic Specialty Pressure Tanks ***(43 42)***

43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls *(43 42 41)*

43 42 41 00-0002	EA	250 Gallon Aboveground LP Gas Storage Tank	1,431.67	116.53
43 42 41 00-0003	EA	500 Gallon Aboveground LP Gas Storage Tank	2,628.02	174.80
43 42 41 00-0004	EA	1,000 Gallon Aboveground LP Gas Storage Tank	3,731.15	186.45

END OF SECTION 43

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

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