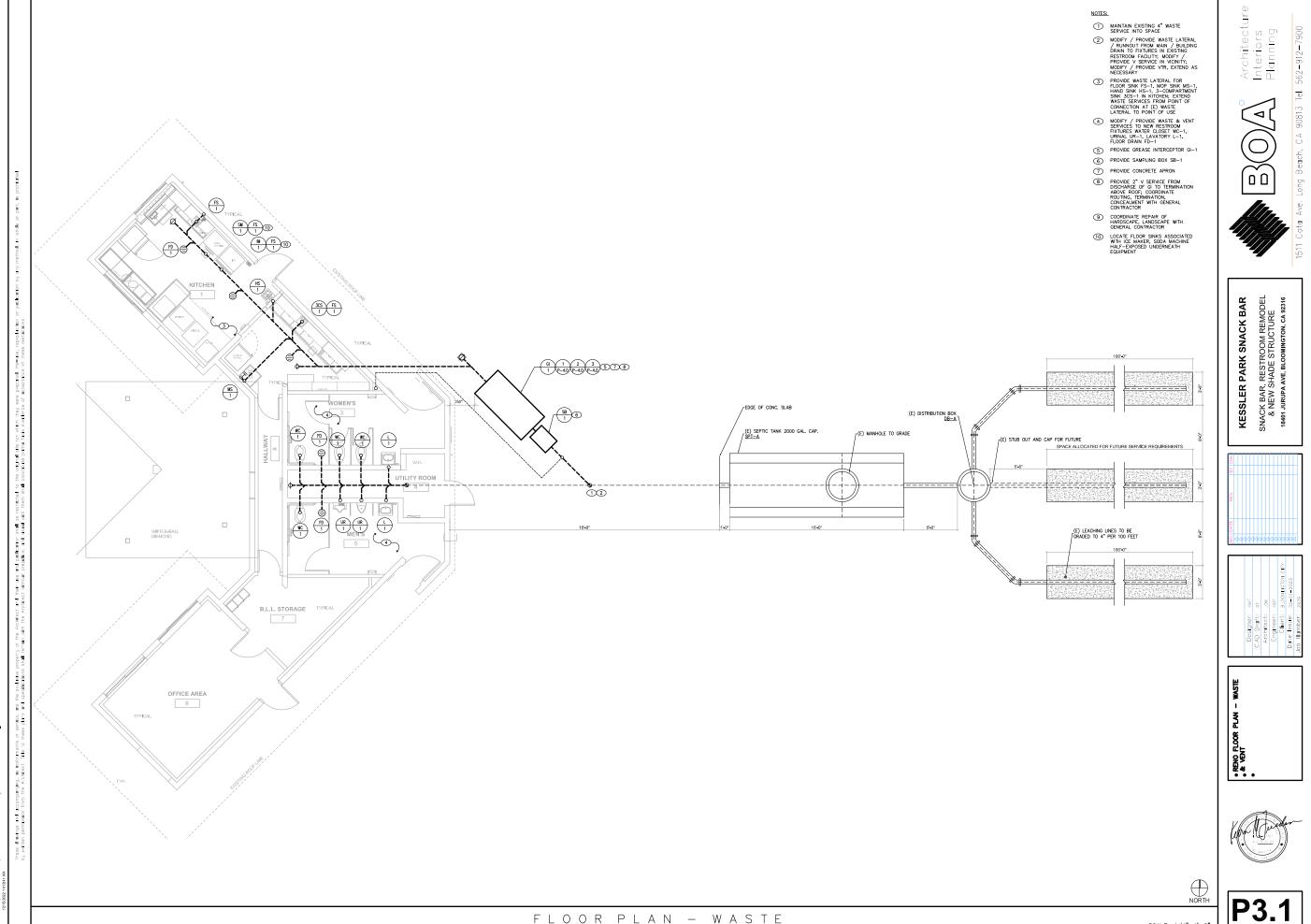
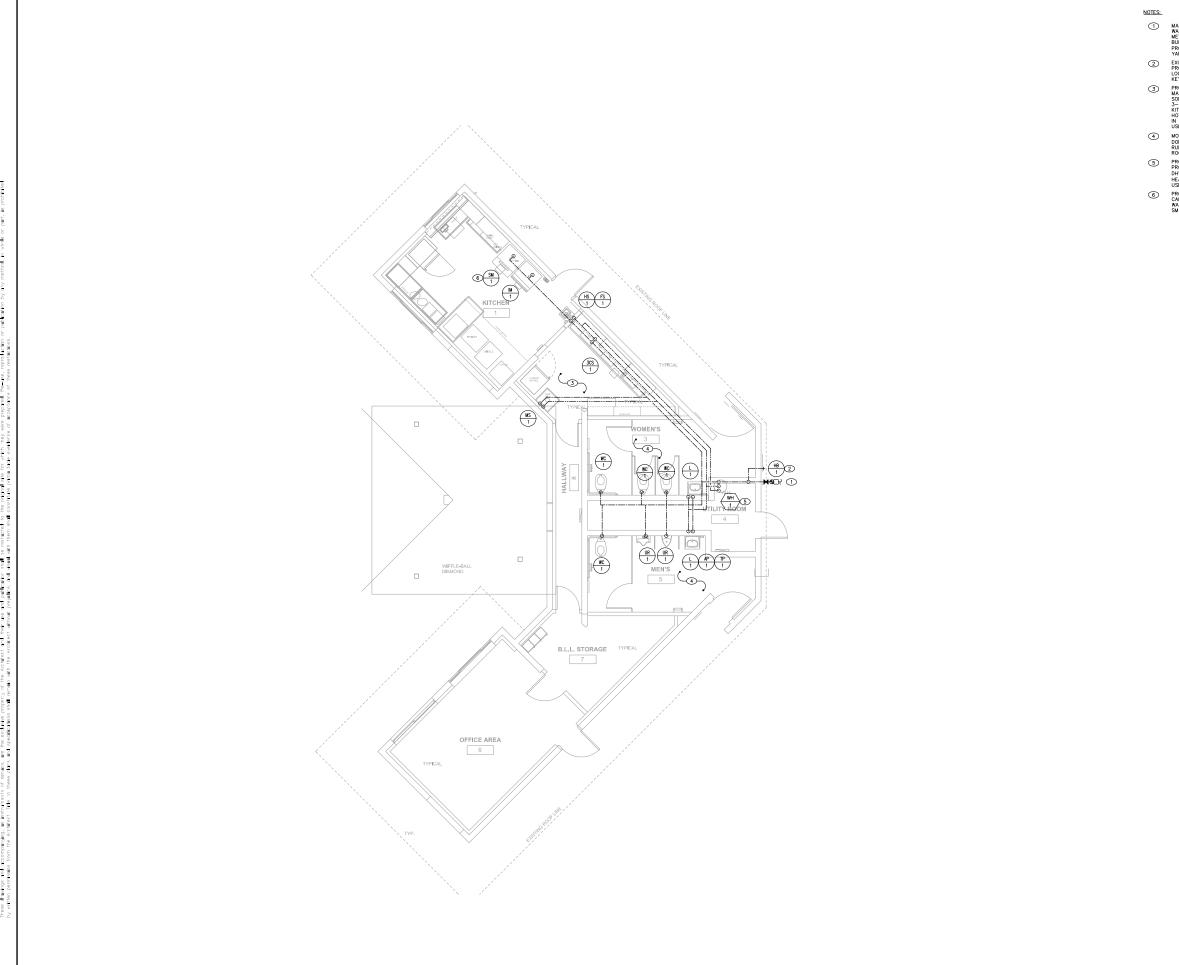


FLOOR PLAN - DEMO

P3.0



SCALE: 1/4"=1'-0"



MOILES:

1 MAINTAIN EXISTING 1-1/2" COLD WATER SERVICE FROM WATER METER ONTO SITE TO POE AT BUILDING ISOLATION VALVE, (N) YARD BOX
2 EXISTING COLD WATER TO HB-A; PROVIDE HOUSE BIB UNDER LOCKABLE COVER WITH REMOVABLE KEY

USE

MODIFY / PROVIDE COLD WATER,
DOMESTIC HOT WATER LATERAL,
RUNOUT FROM MAINS IN UTILITY
ROOM TO POINTS OF USE.

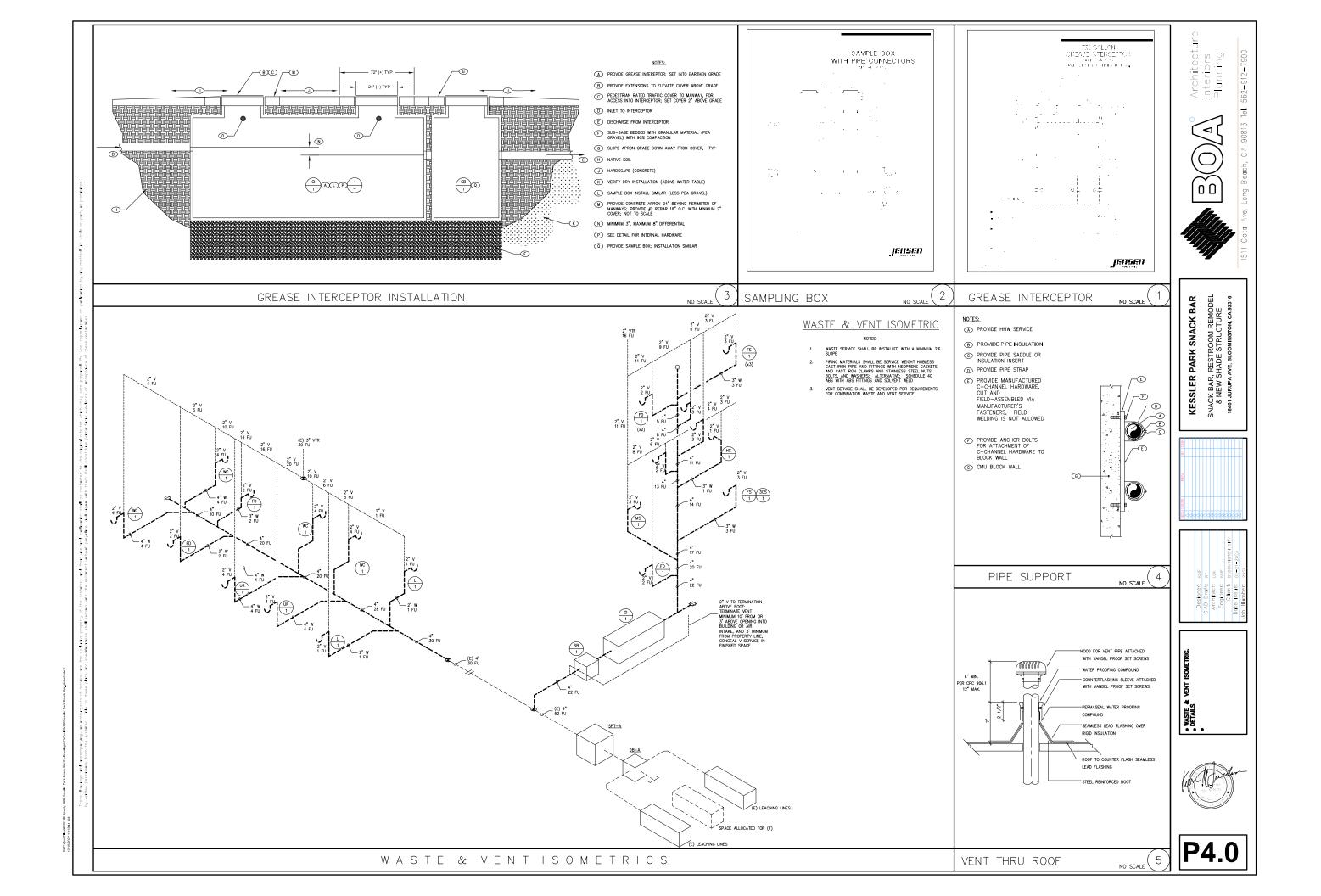
PROVIDE WATER HEATER WH-1;
PROVIDE ASSOCIATED CW, DHW
DHWR SERVICES TO / FROM WATER
HEATER TO / FROM POINTS OF
USE
PROVIDE AIR CAP BETWEEN
CARBONATORS AND POTABLE
WATER SUPPLY FOR SODA MACHINE
SM-1

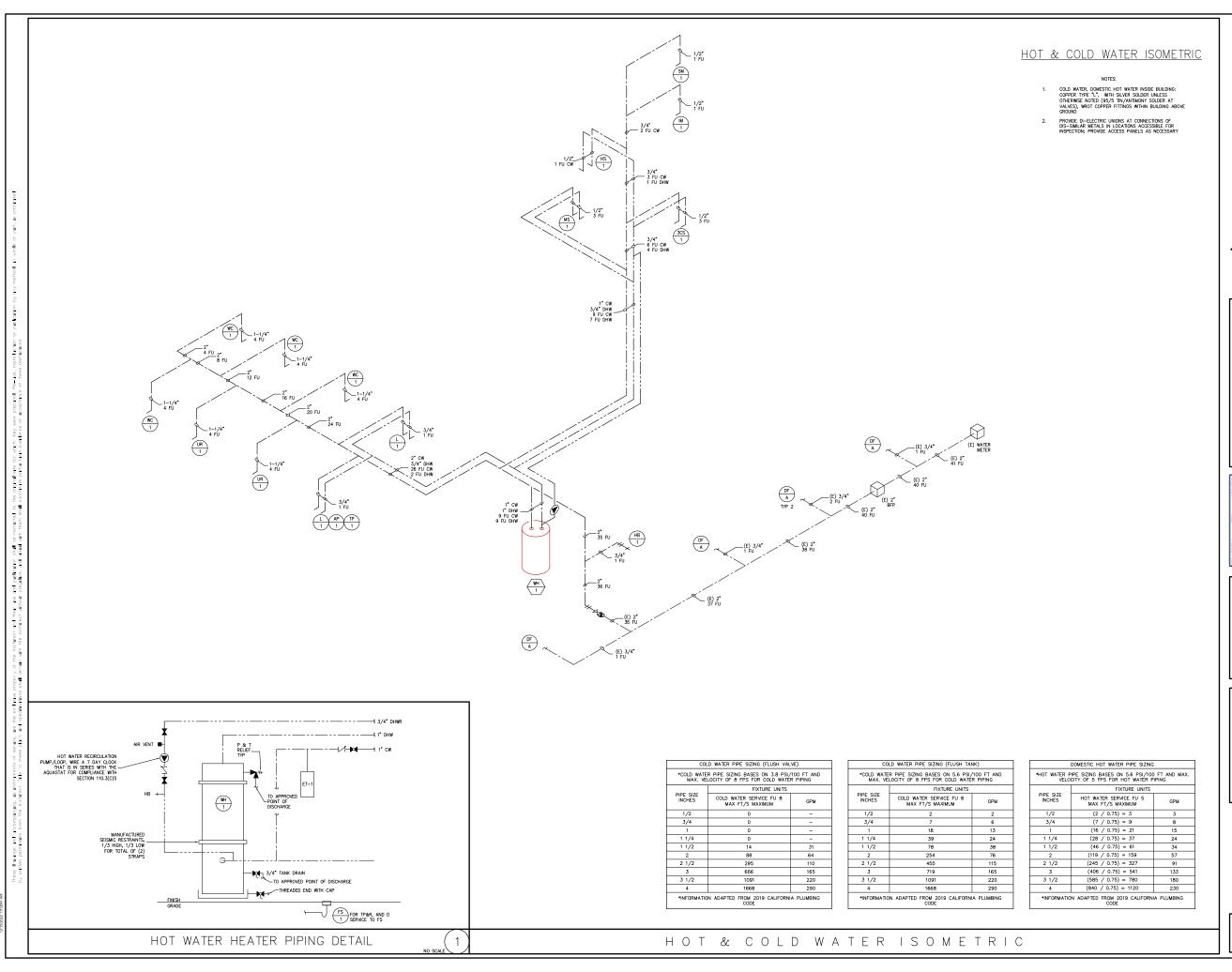
<u>-</u>

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KESSLER PARK SNACK BAR SNACK BAR, RESTROOM REMODEL & NEW SHADE STRUCTURE 18401 JURUPA AVE, BLOOMINGTON, CA 92316

SCALE: 1/4"=1'-0"





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SNACK BAR, RESTROOM REMODEL & NEW SHADE STRUCTURE 18401 JURUPA AVE, BLOOMINGTON, CA 92316 KESSLER PARK SNACK BAR





P4.1

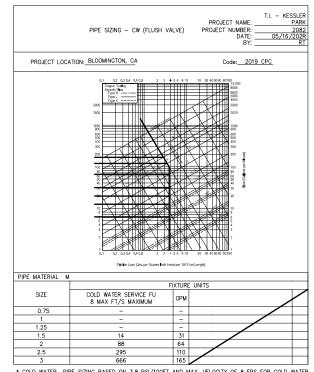
PLI	JMBING FI) FIRE S	(TURE UNIT: TATION	S	PRO PROJE:	JECT NAME CT NUMBER DATE BY	:	2082 5/16/202R	
PROJECT LOCATION: BLOC	MINGTON,	CA			CODE: 20	19 CPC		
		WA	STE	COLD WTF	R (@100%)	HOT WATER (@ 100%)		
FIXTURES	QTY.	FU (EACH)	FU (TOTAL)	FU (EACH)	FU (TOTAL)	FU (EACH)	FU (TOTAL)	
WATER CLOSET (WC-1)	4	4	16	4	16			
LAVATORY (L-1)	2	1	2	1	2	1	2	
URINAL (UR-1)	2	4	8	4	8			
MOP SINK (MS-1)	1	3	3	3	3	3	3	
HAND SINK (HS-1)	1	1	1	1	1	1	1	
ICE MAKER (IM-1)	1			1	1			
3-COMPARTMENT SINK (CS-1)	1			3	3	3	3	
FLOOR DRAIN (FD-1)	5	2	10		0		0	
FLOOR SINK (FS-1)	2	3	6		0		0	
HOSE BIB (HB-1)	1			1	1			
DRINKING FOUNTAIN (DF-A)	5			1	5			
SUB-TOTALS:			46		40		9	
		BUILDING	SEWER SIZE:	4	INCHES			
			COLD WATER:	40	FU			
	(co	INTINUOUS FL	COLD WATER: DW DEMAND):		FU			
		COLD WA	TER DEMAND:	40	FU			

PRESSURE DROP CALCULATION (FLUSH VALVE — COLD WATER)						
PROJECT LOCATION: BLOOMINGTON, CA		-		CODE: 20	19 CPC	
SYSTEM PRESSURE  AVAILABLE PRESSURE						
AVAILABLE PRESSURE			MINIMUM	62 72	PSI PSI	
PRESSURE REQUIRED AT FARTHEST FIXTU	JRE:			25	PSI	
PRESSURE LOSS DUE TO HEIGHT:				2.3	PSI	
PRESSURE LOSS THRU METER: 2" METER				7.0	PSI	
PRESSURE LOSS THRU BACKFLOW PREVE	NTER:			6	PSI	
OTHER LOSSES:				0	PSI	
	SUB	TOTAL		40.3	PSI	
LOSS AVAILABLE FOR FRICTION:	62	-	40.3	21.7	PSI	
LENGTH OF RUNS METER TO FARTHEST FIXTURE		OUTSIC	E BUILDING:	400	FT	
		INSIC	E BUILDING: TOTAL:		FT FT	
EQUIVALENT LENGTH					FT	
(FT): 445	х	1.25	FT	556	FT	
ALLOWABLE FRICTION LOSS	1.25 F	ACTOR FOR FI	TTINGS			
PRESSURE AVAILABLE (PSI)  EQUIVALENT (FT) /100 (FT)	-	21.7	×	100	3.9	

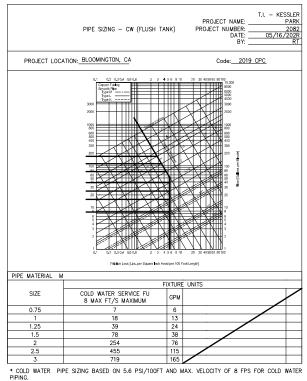
*	WATER	CALCULATION	FOR	ENGINEERED	PLUMBING	SYSTEM	BASED	ON	APPENDIX	Α	OF	THE	CPC	

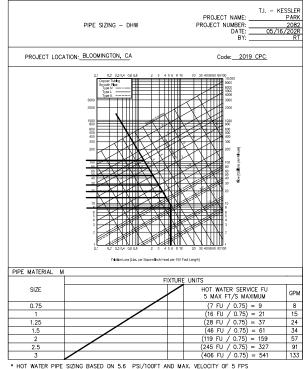
PRESSURE DROP CALCULATION (FLUSH VALVE — CW, DWH SERVICES		PROJ PROJ	T.I. – KESSL PA 20 05/16/20		
PROJECT LOCATION: BLOOMINGTON, CA		-		CODE: 201	9 CPC
SYSTEM PRESSURE					
AVAILABLE PRESSURE			MINIMUM -	62 72	PSI PSI
PRESSURE REQUIRED AT FARTHEST FIXTU	RE:		-	15	PSI
PRESSURE LOSS DUE TO HEIGHT:			-	2.3	PSI
PRESSURE LOSS THRU METER: 2" METER				7.0	PSI
PRESSURE LOSS THRU BACKFLOW PREVEN	ITER:			6	PSI
OTHER LOSSES:				0	PSI
	SUB1	TOTAL		30.3	PSI
LOSS AVAILABLE FOR FRICTION:	62	-	30.3	31.7	PSI
LENGTH OF RUNS METER TO FARTHEST FIXTURE					_
METER TO FARTHEST FIXTURE			IDE BUILDING: IDE BUILDING:		FT FT
			TOTAL:	445	FT
					FT
EQUIVALENT LENGTH (FT): 445	х	1.25	FT -	556	FT
	1.25 F	ACTOR FOR I	FITTINGS		
ALLOWABLE FRICTION LOSS					
PRESSURE AVAILABLE (PSI)	-	31.7		100	5.7
EQUIVALENT (FT) /100 (FT)		556.3	- x	100	3.7

\* WATER CALCULATION FOR ENGINEERED PLUMBING SYSTEM BASED ON APPENDIX A OF THE CPC



\* COLD WATER PIPE SIZING BASED ON 3.8 PSI/100FT AND MAX. VELOCITY OF 8 FPS FOR COLD WATER PIPING.





\* HOT WATER PIPE SIZING BASED ON 5.6 PSI/100FT AND MAX. VELOCITY OF 5 FPS FOR HOT WATER PIPING. FACTOR OF 75% ACCOUNTED FOR IN TABLE FOR DE-RATED DHW LOADS.

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KESSLER PARK SNACK BAR