

LINE LEGEND

PIPING FLOW STREAM ID

ABBREVIATIONS

PIPE FITTING SYMBOLS

VALVE SYMBOLS

Soderstrom Architects

DRAWING INDEX

1200 NW Naito Parkway, Suite 410

CONSULTING ENGINEERS



ABBREVIATIONS, &

P0.01

GENERAL NOTES

KEYED NOTES

Key Plan

- 1 LOCATION OF NATURAL GAS STUB TO METER. COORDINATE WITH NW NATURAL GAS COMPANY.
- 4 CONNECT 4" SANITARY TO SERVICE FROM STREET. SEE CIVIL PLANS FOR CONTINUATION.

- A SEE SHEET P0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B REFER TO STRUCTURAL PLANS FOR FLOOR SLOPES AND TRENCH DRAIN ELEVATIONS.

- 2 CONNECT 2" DOMESTIC WATER TO SERVICE FROM STREET. SEE CIVIL PLANS FOR CONTINUATION.
- 3 LOCATION OF FIRE SERVICE FOR REFERENCE ONLY.
- 5 4" GREASE PIPING TO DIVERTER VALVE. SEE CIVIL PLANS FOR CONTINUATION.
- 6 COORDINATE FLOOR SINK LOCATION WITH FINAL LOCATION OF ICE MAKER.

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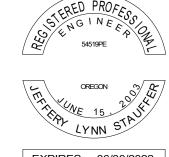
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Beaverton, OR (503) 645-0176

Revisions

0 PERMIT SET 1 BID SET



EXPIRES: 06/30/2022

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02/03/21

CC20034

/**B**/

PLUMBING BELOW GRADE FLOOR PLAN

P1.01

PLUMBING BELOW GRADE FLOOR PLAN

GENERAL NOTES

- A SEE SHEET P0.01 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.
- B REFER TO STRUCTURAL PLANS FOR FLOOR SLOPES AND TRENCH DRAIN ELEVATIONS.
- C MOUNT SHOWER HEADS AT 7'-0" ABOVE FINISHED FLOOR.

KEYED NOTES

- 1 2" MAIN BUILDING SHUT-OFF VALVE.
- 2 ROUTE 3/4" CW, 3/4" HW DN IN WALL TO <u>L-1</u> AND <u>MS-1.</u>
- 3 ROUTE 1/2" CW, 1/2" HW PEX TUBING IN TOE KICK SPACE OF CABINET AND CAP. TERMINATE 2"-SAN 2" ABOVE FINISHED FLOOR AND CAP.
- 4 ROUTE 3/4" CW, 3/4" HW DN IN WALL TO L-1 AND BOTH WB-1.
- 5 ROUTE 3/4" CW, 3/4" HW DN IN WALL TO WB-1. PROVIDE 3/4"x1/2" REDUCING BUSHING PRIOR TO ENTERING BOX.
- 6 2 LBS NATURAL GAS METER LOCATION.
- 7 1/2" CDA PIPING DN IN WALL, TERMINATE 48" ABOVE FINISHED FLOOR, AND PROVIDE QUICK DISCONNECT FITTING.
- 8 1/2" NG PIPING WITH SHUT-OFF VALVE AND REGULATOR. CONNECT TO RADIANT HEATER. REFER TO MECHANICAL PLANS.
- 9 3/4" NG PIPING DN IN WALL, TERMINATE 3" ABOVE FINISHED FLOOR, PROVIDE GAS SHUT-OFF VALVE, AND MAKE FINAL CONNECTION TO
- 10 1/2" NG PIPING DN IN WALL, TERMINATE 6" ABOVE FINISHED FLOOR, PROVIDE GAS SHUT-OFF VALVE, AND MAKE FINAL CONNECTION TO APPLIANCE.
- 11 PROVIDE SHUT-OFF VALVE AND CAP FOR FUTURE.
- 12 PROVIDE 1/2" GAS SHUT-OFF VALVE, SOLENOID VALVE, AND PRESSURE REGULATOR.
- 13 MOUNT BFP-2 IN WALL AT 48" ABOVE FINISHED FLOOR. PROVIDE WITH ACCESS PANEL. DISCHARGE TO HUB DRAIN LOCATED IN WALL. PROVIDE ACCESS PANEL. PROVIDE FINAL CONNECTION TO COFFEE MAKER.
- 14 INSTALL IB-1 AT 48" ABOVE FINISHED FLOOR.

Key Plan

/A/

- 15 TRAP PRIMER LOCATION. SEE DETAIL 4/P5.01 FOR MORE INFORMATION.
- 16 PROVIDE GRISWOLD F-2989 3521D FLOW LIMITING VALVE. FLOW SET AT 1.0
- 17 1/2"-CDA PIPING TERMINATES WITH RETRACTABLE HOSE REEL. COORDINATE FINAL MOUNTING REQUIREMENTS WITH OWNER.
- 18 PROVIDE 1" TACO FLOW SWITCH FOR VEHICLE WASH DIVERTER VALVE. COORDINATE WITH ELECTRICAL AND CIVIL. FOR CONDUIT LOCATION AND VALVE REQUIREMENTS.
- 19 CONNECT CW AND HW FOR EW-1 TO L-1 BRANCH PIPING.

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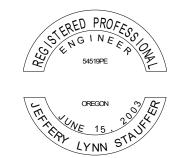


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Revisions

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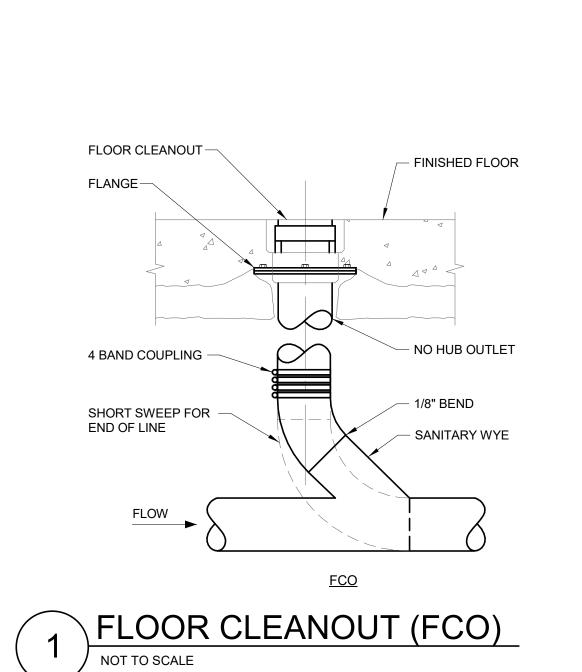
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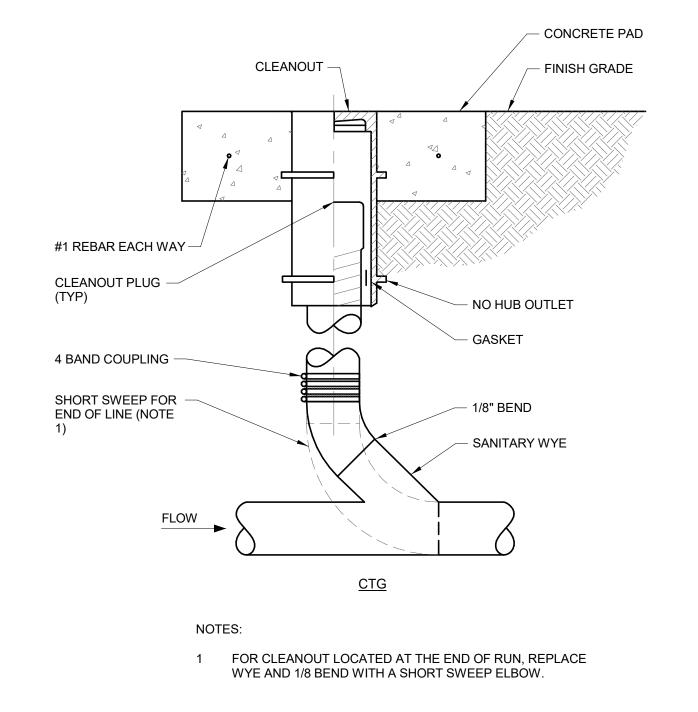
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PLUMBING GROUND FLOOR PLAN

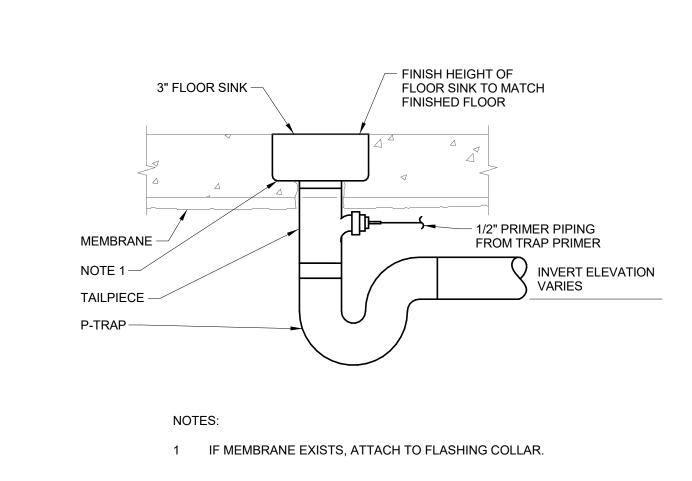
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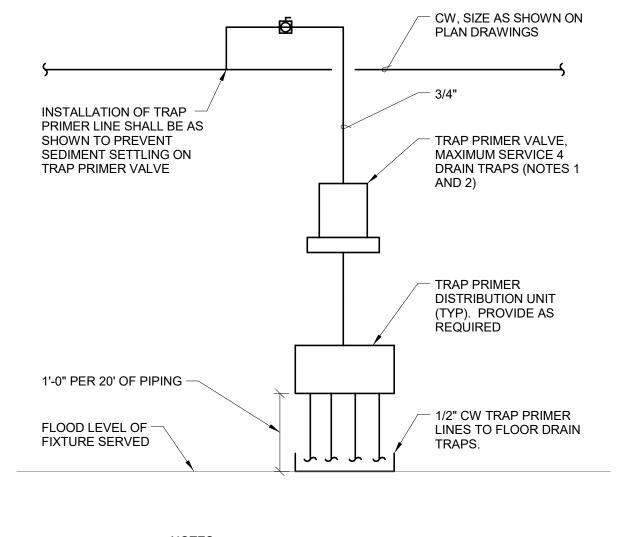




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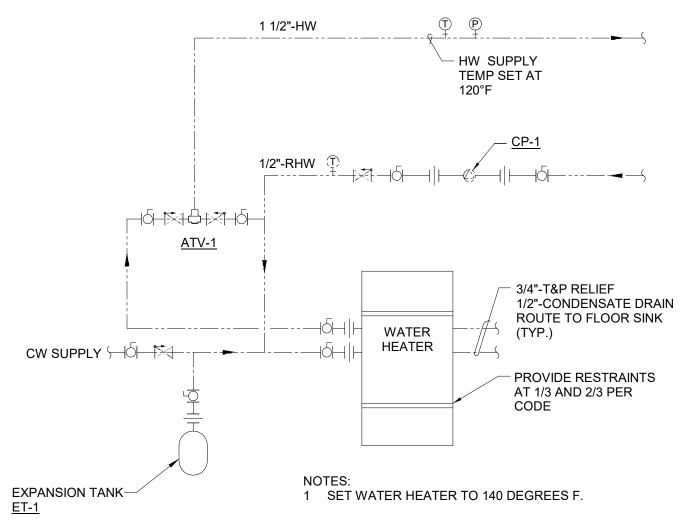
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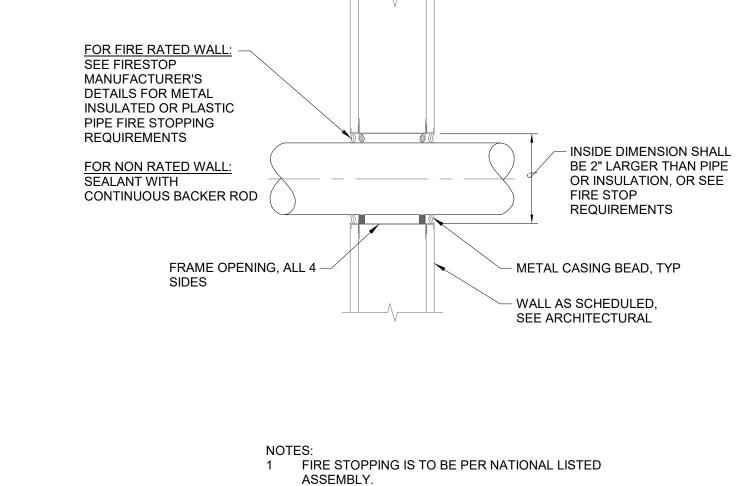
- PROVIDE APPROVED TRAP PRIMER VALVE SUCH AS PRECISION PLUMBING PRODUCTS OR EQUAL.
- 2 PROVIDE ACCESS PANEL IN FINISHED AREA.

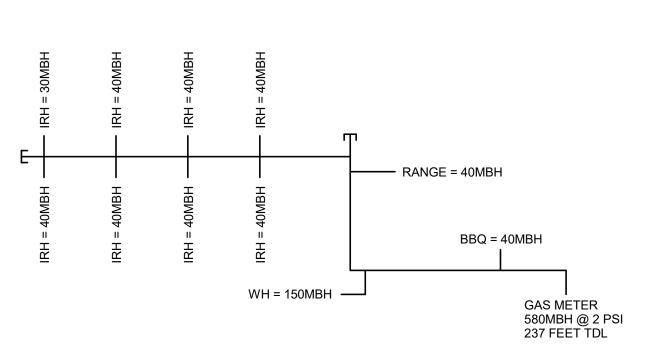




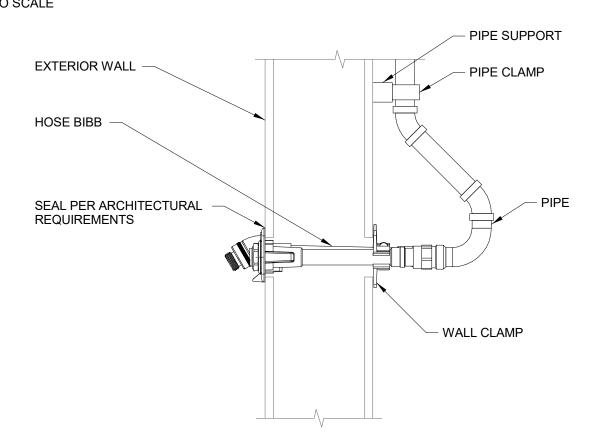






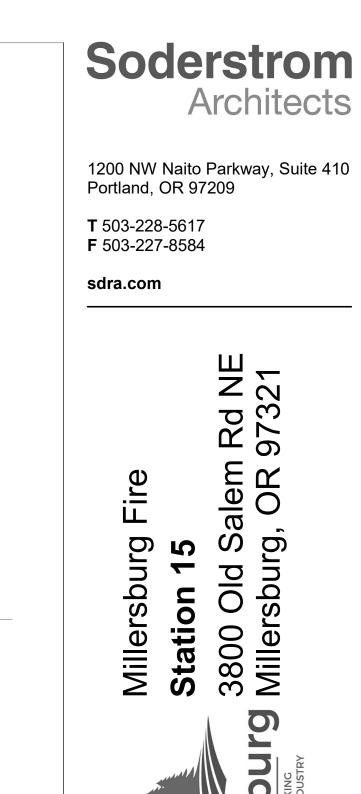












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Issuance

Project Number CC20034

Drawing Title

PLUMBING DETAILS

P5.01

						Р	LUME	BING FIXTURES	
SYMBOL	FIXTURE		R	OUGH-IN C	ONNECTION	NS		DESCRIPTION	REMARKS
		TRAP	WASTE	VENT	HOT WATER	COLD WATER	GAS		
AC-1	AIR COMPRESSOR	-	-	-	-	-	-	QUINCY QT54 AIR COMPRESSOR, 60 GALLON VERTICAL TANK, 5 HP, 230 VOLT, 1 PHASE, 475 POUNDS.	
ATV-1	TEMPERING VALVE	-	-	-	1-1/4"	1-1/4"	-	WATTS 1-1/2" LFN170-M3 CSUT TEMPERING VALVE WITH CHECKSTOPS	
BFP-1	BACKFLOW DEVICE	-	-	-	=	2"	-	WATTS 007M1QT-S DOUBLE CHECK VALVE ASSEMBLY, GRID STRAINER, QUARTER TURN BALL VALVES.	
BFP-2	BACKFLOW DEVICE	-	-	-	-	1/2"	-	WATTS 009QT-S REDUCED PRESSURE BACKFLOW ASSEMBLY, GRID STRAINER, QUARTER TURN BALL VALVES.	
EW-1	EYE WASH STATION	1-1/2"	2"	2"	1/2"	1/2"	-	HAWS 7360BT-7460BT	
L-1	LAVATORY	1-1/2"	2"	2"	1/2"	1/2"	-	ELKAY ELUHAD141455, SINGLE BOWL, STAINLESS STEEL, UNDERMOUNT, DELTA B510LF-PPU FAUCET WITH SINGLE HANDLE.	
L-2	LAVATORY	1-1/2"	2"	2"	1/2"	1/2"	-	AMERICAN STANDARD OVALYN 9482.000, UNDERMOUNT, WHITE, DELTA B510LF-PPU FAUCET WITH SINGLE HANDLE, POP-UP STOPPER.	
S-1	SINK	1-1/2"	2"	2"	1/2"	1/2"	-	ELKAY LUSTERTONE DCFU2816, UNDERMOUNT, 18 GAUGE STAINLESS STEEL SINK, SINGLE BOWL, DELTA FAUCET 9179-DST WITH SINGLE LEVEL, PULL DOWN NOZZLE, DUAL INTEGRAL CHECK VALVES, FISHER 1008 COLD WATER DISPENSER, 3M AQUAPURE 3MFF100 WATER FILTER, INSINKERATOR EVOLUTION PRESTIGE.	
S-2	SINK	1-1/2"	2"	2"	1/2"	1/2"	-	FUTURE	
S-3	SINK	1-1/2"	2"	2"	1/2"	1/2"	-	ELKAY LUSTERTONE ELUHAD1616T, UNDERMOUNT, 18 GAUGE STAINLESS STEEL SINK, SINGLE BOWL, DELTA FAUCET 9179-DST WITH SINGLE LEVEL, PULL DOWN NOZZLE, DUAL INTEGRAL CHECK VALVES, FISHER 1008 COLD WATER DISPENSER, 3M AQUAPURE 3MFF100 WATER FILTER.	
MS-1	MOP SINK	3"	3"	2"	3/4"	3/4"	-	JUST MANUFACTURING B-33213 CORNER SINK, STAINLESS STEEL, WITH CHICAGO FAUCETS 897-RCF 8" BODY, INTEGRAL CHECK VALVES, ADJUSTABLE ARMS 7 5/8" - 8 3/8, 2 3/8" VANDAL PROOF LEVER, CERAMIC, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE.	
LS-1	LAUNDRY SINK	2"	2"	2"	1/2"	1/2"	-	FIAT PRODUCTS FLOOR MOUNTED POLY TUB MODEL P-1. PROVIDE 8" CENTER SET DECK MOUNT FAUCET WITH 8" SPOUT.	
SH-1	FIBERGLASS SHOWER	2"	2"	2"	1/2"	1/2"	-	BESTBATH 36" SHOWER LSS4038A5B WITH BEVELED THRESHOLD, WITHOUT SEAT AND WITHOUT GRAB BARS, DELTA R10700-UNWS ROUGH-IN BODY, INTEGRAL CHECKS, PRESSURE BALANCING, T13H363-05 TRIM, FIXED WALLMOUNT HEAD, DIVERTER VALVE, HAND HELD WAND, AND 24" STAINLESS STEEL BAR, FD-3.	
SH-2	NOT USED	-	-	-	-	-	-	NOT USED	
WC-1	ADA WATER CLOSET	-	4"	2"	-	1"	-	AMERICAN STANDARD MADERA FLOWISE 3043.001, ELONGATED, WHITE, SLOAN ROYAL 111 FLUSHOMETER, 1.28 GPF, BEMIS OPEN FRONT SEAT.	
HB-1	HOSE BIBB	-	-	-	-	3/4"	-	WOODFORD 65, ANTI SIPHON, TEE KEY.	
HB-2	HOSE BIBB	-	-	-	-	3/4"	-	ZURN Z1341XL-P34.	
IB-1	ICE MAKER BOX	-	-	-	-	1/2"	-	GUY GRAY MIB1HAAB ICE MAKER VALVE BOX, QUARTER TURN VALVES WITH HAMMER ARRESTER.	
WB-1	WASHER BOX	2"	2"	-	1/2"	1/2"	-	GUY GRAY WASHER BOX, MWB-16, REVERSIBLE QUARTER TURN VALVES WITH HAMMER ARRESTER.	
FD-1	FLOOR DRAIN	2"	2"	2"	-	-	-	ZURN EZ-6 6" ADJUSTABLE FLOOR DRAIN.	
FD-2	FLOOR DRAIN	3"	3"	3"	-	-	-	ZURN Z508 9"Ø ROUND EXTRA HEAVY DUTY FLOOR DRAIN WITH BODY, NO-HUB HEAVY- DUTY SLOTTED GRATE, SEDIMENT BUCKET.	
FD-3	FLOOR DRAIN	2"	2"	2"	-	-	-	ZURN EZ-PV2 5" ADJUSTABLE SHOWER DRAIN.	
TD-1	TRENCH DRAIN	4"	·	2"	-	-	-	ZURN Z886-HD SERIES, 4" THROAT, CLASS E DUCTILE IRON SLOTTED GRATE, 4" BOTTOM OUTLET.	
TD-2	TRENCH DRAIN	4"	4"	2"	-	-	-	H-M COMPANY TROUGH DRAIN, 18" WIDE BY 42" LONG BY 12" DEEP, LINT FILTER, 4" BOTTOM DRAIN.	
TD-3	NOT USED	-	-	-	-	-	-	NOT USED	
FS-1	FLOOR SINK	2"	2"	2"	-	-	-	ZURN Z1752 12"x12" SANI-FLOR RECEPTOR, 10" SUMP DEPTH	
OWS-1	OIL WATER SEPARATOR	4"	4"	-	-	-	-	OLDCASTLE INFRASTRUCTURE 576-SA-1000 OIL/WATER SEPARATOR, 1,000 GALLONS, OPTIONAL HEAVY TRAFFIC TOP, GRADE RINGS AS NECESSARY.	

						٧	VAT	ER I	HEA	TER	SCI	HEI	DUI	LE			
TAG	SERVICE	TYPE	MIN	MAX	INPUT	MIN.	FLUE	Е	LECTRI	CAL					BASIS OF DESIGN		REMARKS
			GAS	GAS	MBH	EFF. @ 100%	DIA IN.	V	Ø MCA	MOCP	DIM	IENSIC	NS	WEIGHT	MFG	MODEL	
			PRESSURE IN WC	PRESSURE IN WC		100%	IIN.				H (IN)	W (IN)	D (IN)	LBS			
WH-1	DOMESTIC HOT WATER	GAS	7	14	100	98	3	110	1 5	20	76	-	28	525	AO SMITH	BTH-150	1, 2, 3

NOTES:

PROVIDE WITH CONDENSATE NEUTRALIZER KIT.
 198 GPH RECOVERY AT 90 DEGREE RISE.

3. OPERATING WEIGHT IS 1,360 POUNDS.

					EXPA	NSIO	N TAN	(SCHEDI	ULE			
SYMBOL	LOCATION	SERVICE	CONNE	CTION	FILL	RELIEF	TA	NK SIZE		DESIGN BASIS	3	REMARKS
			INLET (IN)	PRV (IN)	PRESSURE (PSIG)	VALVE (PSIG)	TANK VOLUME	ACCEPTANCE VOLUME	WEIGHT	MFG	MODEL	
ET-1	JANITOR	DOMESTIC HOT WATER	3/4"	-	70	125	6.4	3.2	35	AMTROL	ST-12C	

						PUM	P SC	HE	DUL	E.					
SYMBOL	LOCATION	SERVICE	FLOW TDH MIN NPSH MOTOR ELECTRICAL DESIGN				DESIGN BA	SIS	REMARKS						
			GPM		EFF %	REQ	HP	RPM	V	Ø	HZ	WEIGHT	MFG	MODEL	
CP-1	JANITOR	DOMESTIC HWR	1	13	-	-	1/25	3250	110	1	60	5	TACO	008-IQB-IFC	1
NOTES:															
	PROVIDE WITH INTEGRAL	CHECK VALVE.													

		DRAIN SIZING WORKSHEET							
		DRAIN FIXTURE UNIT VALUES							
LEVEL	AREA		QTY						
FIRST	TOILET/SHOWER ROOMS	LAVATORY SINK	3	Х	1.0	DFU	=	3.0	DFU
LEVEL	TOILET/SHOWER ROOMS	WATER CLOSETS	3	Х	6.0	DFU	=	18.0	DFU
	TOILET/SHOWER ROOMS	SHOWER	3	Х	2.0	DFU	=	6.0	DFU
	TOILET ROOM	WATER CLOSETS	1	Х	6.0	DFU	=	6.0	DFU
	TOILET ROOM	LAVATORY SINK	1	Х	1.0	DFU	=	1.0	DFU
	CONFERENCE ROOM	SINK	1	Х	2.0	DFU	=	2.0	DFU
	KITCHEN	SINK	2	Х	2.0	DFU	=	4.0	DFU
	APPARATUS BAY	HAND SINK	1	Х	2.0	DFU	=	2.0	DFU
	APPARATUS BAY	LAVATORY SINK	1	Х	1.0	DFU	=	1.0	DFU
	LAUNDRY	CLOTHES WASHER	2	Х	3.0	DFU	=	6.0	DFU
	LAUNDRY	LAUNDRY SINK	1	Х	2.0	DFU	=	2.0	DFU
	DECONTAMINATION	CLOTHES WASHER	1	Х	3.0	DFU	=	3.0	DFU
	JANITOR	MOP SINK	1	Х	3.0	DFU	=	3.0	DFU
		TOTAL DRAIN FIXTURE UNITS						57.0	DFU
		1% SLOPE DFU AVAILABLE (4" MAIN)						172.0	DFU
		REMAINING DFU AVAILABLE						115.0	DFU

		WATER SIZING WORKSHEET	l					
. = , /= :	1051	NEW WATER SUPPLY DEMAND						
LEVEL	AREA		-					
FIRST	TOILET/SHOWER ROOMS	LAVATORY SINK	3	Х	1.0	WSFU	= 3.0	WSFU
LEVEL	TOILET/SHOWER ROOMS	WATER CLOSETS	3	Х	2.5	WSFU	= 7.5	WSFU
	TOILET/SHOWER ROOMS	SHOWER	3	Х	2.0	WSFU	= 6.0	WSFU
	TOILET ROOM	WATER CLOSETS	1	Х	3.5	WSFU	= 3.5	WSFU
	TOILET ROOM	LAVATORY SINK	1	Х	1.0	WSFU	= 1.0	WSFU
	CONFERENCE ROOM	SINK	1	Х	2.0	WSFU	= 2.0	WSFU
	KITCHEN	SINK	2	Х	2.0	WSFU	= 4.0	WSFU
	APPARATUS BAY	LAVATORY SINK	1	Х	2.0	WSFU	= 2.0	WSFU
	APPARATUS BAY	LAVATORY SINK	1	Х	1.0	WSFU	= 1.0	WSFU
	APPARATUS BAY	HOSE BIBB	3	Х	2.5	WSFU	= 7.5	WSFU
	LAUNDRY	CLOTHES WASHER	2	Х	4.0	WSFU	= 8.0	WSFU
	DECONTAMINATION	CLOTHES WASHER	1	Х	4.0	WSFU	= 4.0	WSFU
	DECONTAMINATION	LAUNDRY SINK	1	Х	1.5	WSFU	= 1.5	WSFU
	JANITOR	MOP SINK	1	Х	3.0	WSFU	= 3.0	WSFU
	EXTERIOR	HOSE BIBB	5	Х	1.0	WSFU	= 5.0	WSFU
		TOTAL NEW DEMAND FOR WATER LINE					59.0	WSFU
		WATER DEMAND (GPM)					53.0	GPM
		CAPACITY AVAILABLE 2" AT 7 FPS					65.0	GPM
		REMAINING CAPACITY					12.0	GPM

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PLUMBING **SCHEDULES**

P6.01