

PLUMBING LEGEND

AFF	.....	ABOVE FINISHED FLOOR	— — — — —	(CW) COLD WATER
ARCH	.....	ARCHITECTURAL	— — — — —	(HW) HOT WATER
B.G.	.....	BELOW GRADE	— — — — —	(HWR) HOT WATER RECIRC
BTU	.....	BRITISH THERMAL UNIT	— -/— -/— -/—	(HT) HOT WATER HEAT TRACED
CAP.	.....	CAPACITY	— — — — —	(W) BELOW GRADE WASTE
C.I.	.....	CAST IRON	— — — — —	(W) ABOVE GRADE WASTE
COMP.	.....	COMPARTMENT	— V — V —	(V) VENT
CONT.	.....	CONTINUATION	— AV — AV —	(AV) ACID VENT
CU.	.....	CUBIC	— RD —	(RD) RAIN DRAIN
DF	.....	DRINKING FOUNTAIN	— OD —	(OD) OVERFLOW RAIN DRAIN
DI	.....	DEIONIZED (WATER)	— FDC —	(FDC) FIRE DEPARTMENT CONNECTION
DIA.	.....	DIAMETER	— A —	(A) COMPRESSED AIR
ELEV.	.....	ELEVATION	— PHW —	(PHW) PROCESS HOT WATER
EWC	.....	ELECTRIC WATER COOLER	— PCW —	(PCW) PROCESS COLD WATER
FD	.....	FLOOR DRAIN	— VAC —	VACUUM
FDC	.....	FIRE DEPARTMENT CONNECTION	— G —	(G) NATURAL GAS
F.F.	.....	FINISH FLOOR	— F —	(F) FIRE WATER
FLG.	.....	FLANGE	— GW —	(GW) GREASE WASTE
FT	.....	FOOT / FEET	— AW —	(AW) ACID WASTE
G	.....	GAS		
GA.	.....	GAUGE		
GALV.	.....	GALVANIZED		
GPM	.....	GALLONS PER MINUTE		
G.V.	.....	GATE VALVE		
HP	.....	HORSEPOWER		
HR.	.....	HOUR		
I.E.	.....	INVERT ELEVATION		
kW	.....	KILOWATT		
LAV	.....	LAVATORY		
LBS	.....	POUNDS		
MAX.	.....	MAXIMUM		
MBH	.....	THOUSANDS OF BTUs PER HOUR		
MIN.	.....	MINIMUM		
M.J.	.....	MECHANICAL JOINT		
N.J.M.	.....	NOT IN MECHANICAL		
OS&Y	.....	OUTSIDE STEM & YOKE		
PROT.	.....	PROTECTION		
PRV	.....	PRESSURE REDUCING VALVE		
PSI, PSIG	.....	POUNDS PER SQUARE INCH		
P/T	.....	PRESSURE / TEMPERATURE		
REQ'D	.....	REQUIRED		
RPBP	.....	REDUCED PRESSURE BACKFLOW PREVENTER		
RPM	.....	REVOLUTIONS PER MINUTE		
TYP.	.....	TYPICAL		
UR	.....	URINAL		
VTR	.....	VENT THROUGH ROOF		
WC	.....	WATER CLOSET		

	.....	EQUIPMENT MARK NUMBER
	.....	FIXTURE MARK
(E)	.....	EXISTING
#	.....	NOTE
	.....	CONNECT TO EXISTING
T	.....	CAP
	.....	TEE
	.....	ELBOW
	.....	CLEANOUT

	.....	PRESSURE/TEMP RELIEF VALVE
	.....	BUTTERFLY VALVE
	.....	GAS PRESSURE REGULATING VALVE
	.....	TOP CONNECTION
	.....	BOTTOM CONNECTION
	.....	PIPE TURNED UP, PIPE TURNED DOWN
	.....	GATE VALVE
	.....	BALL VALVE
	.....	BALANCING VALVE
	.....	CHECK VALVE
	.....	UNION
	.....	DOUBLE CHECK ASSEMBLY

PLUMBING CALCULATIONS EXCLUDING COMMERCIAL KITCHEN							
FIXTURE TYPE	NUMBER OF FIXTURES	DOMESTIC WATER SERVICE			SANITARY WASTE SERVICE		
		WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
CLOTHES WASHER	3	4	12	9		3	9
LAVATORY (SINGLE)	11	1	11	8.25	8.25	1	11
MOP BASIN	1	3	3	2.25	2.25	3	3
RECEPTOR (INDIRECT WASTE)	6	---	---	---	---	2	12
SHOWERS, (STALL)	4	2	8	6	6	2	8
URINAL (1.0 GPF, GENERAL USE)	3	4	12	12	0	2	6
WATER CLOSET (1.6 GPF FLUSHOMETER VALVE-GENERAL)	13	5	65	65	0	4	52
HOSE BIBB (FIRST ONE)	1	2.5	2.5	2.5	0	---	---
HOSE BIBB (EACH ADDITIONAL)	2	1	2	2	0	---	---
TOTAL	44		115.5	107	25.5		101
	GPM	72				WASTE SIZE	4"

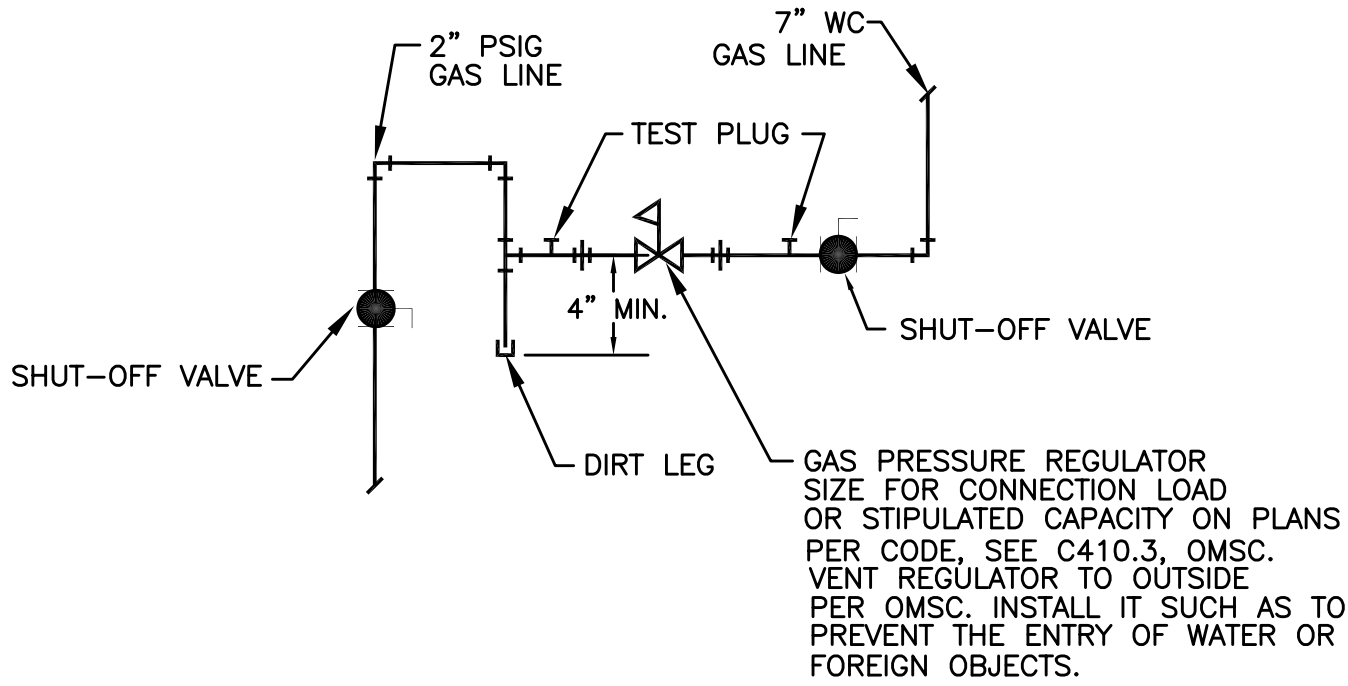
PLUMBING CONNECTION SCHEDULE

MARK	FIXTURE	W	V	CW	HW	REMARKS
CW-1	CLOTHES WASHER FITTING	2"	2"	1/2"	1/2"	Acorn 8185, Guy Gray WB 200/T 200 OR EQUAL
HB-1	HOSE BIB			3/4"		NON-FREEZE, SEE SPECS.
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	COUNTERMOUNT, SEE SPECS.
LV-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNT, ADA; SEE SPECS.
SH-1	SHOWER	2"	1-1/2"	1/2"	1/2"	FIBERGLASS
SH-2	SHOWER	2"	1-1/2"	1/2"	1/2"	FIBERGLASS, ADA
SS-1	SERVICE SINK	3"	2"	1/2"	1/2"	W/ CAN WASHER SEE ARCH. DWGS FOR DETAIL SEE 3/P6.01
WC-1	WATER CLOSET	3"	2"	1"		FLOOR MOUNT, FLUSH VALVE
WC-2	WATER CLOSET	3"	2"	1"		FLOOR MOUNT, FLUSH VALVE, ADA
UR-1	URINAL	2"	1-1/2"	3/4"		WALL MOUNT, SEE ARCHITECTURAL ELEVATIONS
FD-1	FLOOR DRAIN	3"	V.L.			J.R. SMITH 2005A (ROUND) OR EQUAL APPROVED.
FD-2	FLOOR DRAIN	3"	V.L.			J.R. SMITH 2120 (HEAVY DUTY) OR EQUAL
FS-1	FLOOR SINK	3"	V.L.			J.R. SMITH 3002 W/ 3/4 GRATE
TD-1	TRENCH DRAIN	3"	V.L.			3 FEET LONG WITH J.R. SMITH GRATE
OD-1	OVERFLOOR DRAIN	3"	V.L.			J.R. SMITH 1080
RD-1	ROOF DRAIN	3"				J.R. SMITH 1010
OF-1	OVERFLOOR FITTING	3"	V.L.			J.R. SMITH 1770

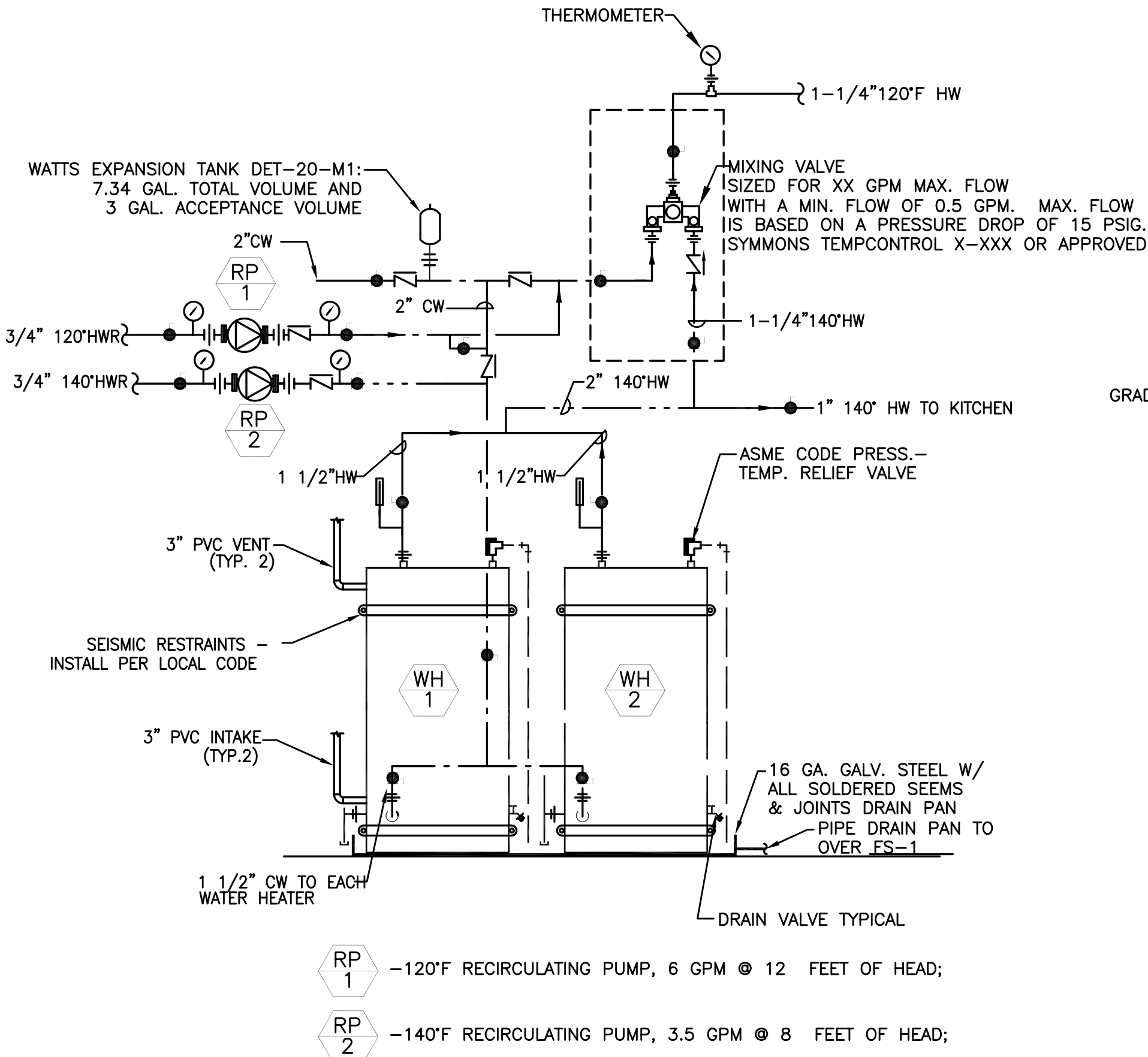
* PROVIDE W/ WALL CLEAN-OUT BELOW EACH SINK

GAS WATER HEATERS

MARK NUMBER	WH 1	WH 2
FUEL	NATURAL GAS	
CAPACITY (GAL)	100	100
INPUT RATE (MBH)	199	199
RECOVERY CAP. @ 100F TR (GPH)	227	227
EFFICIENCY (%)	94	94
GAS VENT/COMBUSTIOIN AIR DIA.	3"	3"
DESIGN WEIGHT (LBS)	1283	1283
BASIS OF DESIGN: A.O. SMITH	CYCLONE BTH-199	

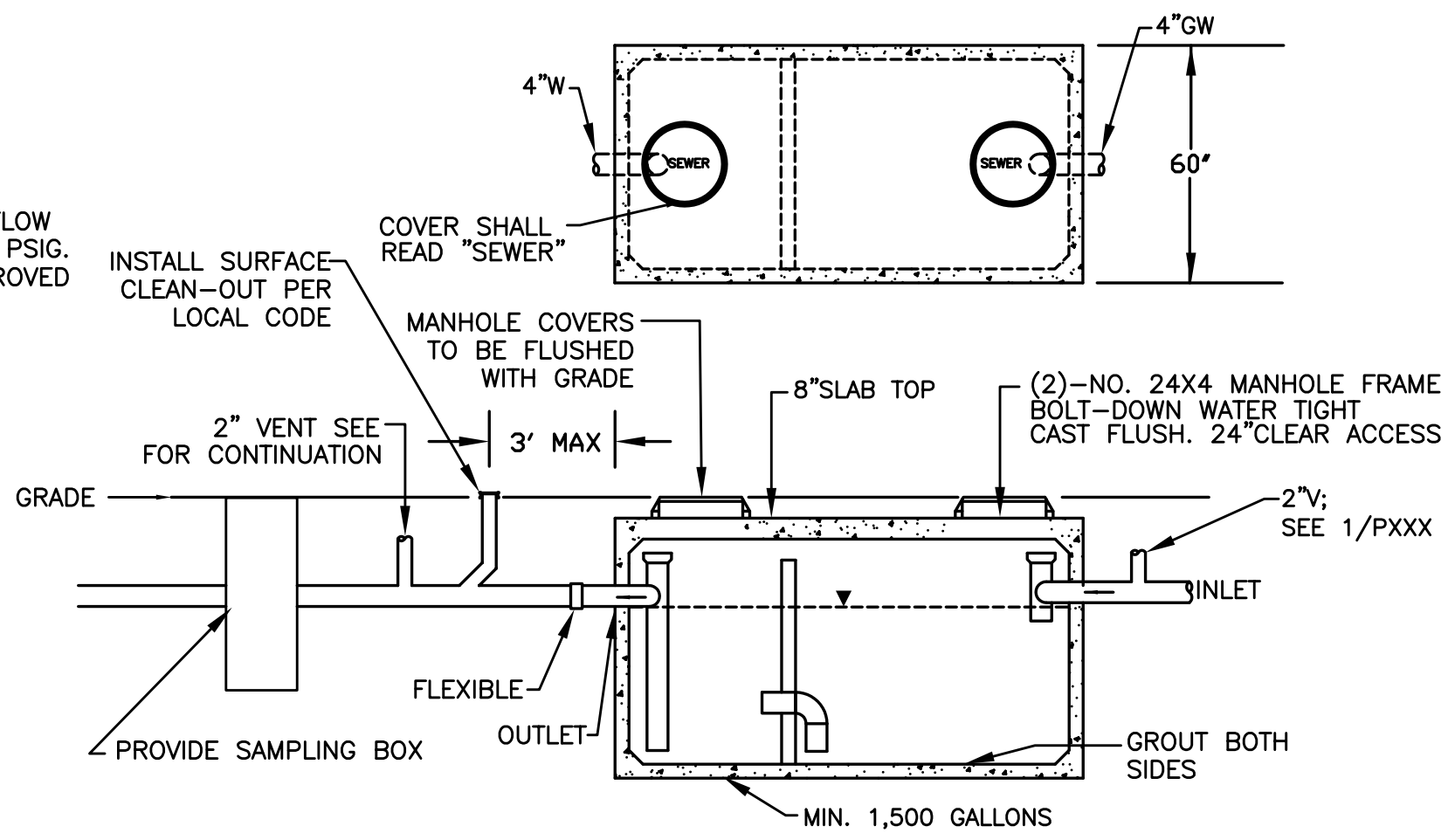


3 GAS PRV DETAIL
P6.00 NTS



- RP 1 -120°F RECIRCULATING PUMP, 6 GPM @ 12 FEET OF HEAD;
- RP 2 -140°F RECIRCULATING PUMP, 3.5 GPM @ 8 FEET OF HEAD;

1 WATER HEATER PIPING DIAGRAM
P6.00 NTS



- NOTES:
- 1) LOCATE STRUCTURE ADJACENT TO DRIVE FOR ACCESS BY MAINTENANCE VEHICLE.
 - 2) FILL WITH CLEAN WATER PRIOR TO START UP OF SYSTEM.
 - 3) INTERCEPTOR TO BE MAINTAINED BY OWNER.
 - 4) UTILITY VAULT CO. INC. MODEL 5106-2-GA OR EQUAL.
 - 5) CONNECTIONS TO CONCRETE WALLS WITH PVC PIPE REQUIRES KOR-N-SEAL CONNECTOR OR A.C. X PVC BRANT ADAPTER. SEAL ALL PIPE CONNECTIONS WITH NONSHRINK GROUT. TOP OF "TEES" TO BE KEPT OPEN.
 - 6) GRAY WATER ONLY. BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER
 - 7) CLEAN-OUT REQUIRED- 3 FEET MAX DOWNSTREAM OF INTERCEPTOR
 - 8) POUR 5 YARDS OF CONCRETE ON TOP OF INTERCEPTOR FOR BALLAST
 - 9) PROVIDE RISERS EXTENSION FOR UNIT AND SAMPLING PORT TO ACCOMMODATE DEEPER BURIAL DEPTH.
 - 10) PROVIDE COVER IN ACCESSIBLE AREA TO ALLOW FULL ACCESS TO TANK FOR PROPER MAINTENANCE.
 - 12) THE UNIT SHOULD INCORPORATE INTEGRAL AIR RELIEF/ANTI-SIPHON.

2 GREASE INTERCEPTOR DETAIL
P6.00 NOT TO SCALE

BBT
ARCHITECTS
1160 sw Simpson Ave. - Suite 100 - Bend, Oregon 97702
1.541.382.5535 | 1.541.389.8033

M Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
E.C. WWW.MPTA-ENG.COM
CONTACT: TAKAKO BAKER

WARM SPRINGS TRAVEL CENTER
Madras, OR

No.	Description	Date

Project Number	1519
Date	JUNE 21, 2016
Drawn By	TB
Checked By	JVB

PLUMBING
LEGEND &
DETAILS

P6.00

PRELIMINARY NOT FOR CONSTRUCTION