

GENERAL NOTES

- All work shall be in accordance with the Uniform Plumbing Code, local codes and ordinances, National Fire Code (NFPA), or these plans or specifications, whichever is more strict.
- All drawings are schematic only, and are intended to indicate the intent, extent, and general arrangement of work. They are not meant to show every fitting, change of direction or every situation. Verify locations in the field. Work indicated shall be furnished complete to perform the function intended.
- Carefully coordinate the space requirements and location of piping with the other trade contractors. Reserve space for sprinkler mains. If coordination fails, conflicts will be decided in favor of the other contractors with this contractor relocating his piping and equipment at no expense to the Owner.
- All plumbing fixtures shall be back vented.
- This contractor shall make all final plumbing connections to equipment/ fixtures provided by other contractors.
- For pipe sizes not shown on floor plans, refer to: adjacent or enlarged plumbing plans, then appropriate schedules, details, specifications, equipment connection sizes and minimum Code requirements. For otherwise indeterminable pipe segments, the size shall be the same as the largest adjacent segment. Where pipe sizes are erroneously shown to decrease then increase, the smaller segment shall be increased to match the larger segment. When a conflict exists, the larger size shall govern. Pipe sizes are nominal (not O.D.) unless specifically noted otherwise.
- All piping shall run concealed above ceilings, in walls, in soffits and in chases unless noted otherwise. Special care shall be taken when dropping 3" nominal pipe in 3-1/2" wall cavities to ensure correct fit and alignment.
- No structural members shall be cut without approval of the Architect.
- All plumbing shall be supported from the building structure. All piping drops to fixtures shall be anchored solid to walls with a steel support bracket with adjustable clip.
- All water piping shall be installed parallel to building lines and pitched to low points. Provide drop-offs at low points. Piping shall be run neatly grouped together when practical.
- All piping through roofs, concrete walls and masonry partitions shall have steel pipe sleeves. Openings between pipes and sleeves shall be caulked and sealed smoke and water tight. All pipe penetrations through a fire rated wall or floor shall have a UL rated fire stop system rated to match the rating of the wall, as per the NFPA.
- All wall fixtures shall be carrier mounted unless otherwise specified.
- All domestic water piping shall be insulated unless otherwise specified.
- Run all piping on warm side of building insulation. No water, or waste lines shall be run in exterior walls, unless directly indicated.
- Provide shock absorbers where shown on drawings, and on tops of risers to all flush valves, shower valves, dishwashers and clotheswashers. Sizes shall conform to P.D.I. standards.
- All sanitary waste piping less than 4" shall pitch down at 1/4" per L.F. All 4" and larger piping shall pitch at 1/4" per L.F. whenever possible. No sanitary/ waste piping under slab shall be less than 2" in diameter.
- All Domestic copper water piping shall be type "K" or "L" copper, type "M" is prohibited.

ABBREVIATIONS, LINE TYPES & SYMBOLS

140	140 DEG F HOT WATER	LF	LINEAR FEET	---	SANITARY / WASTE PIPING BELOW SLAB
●	AT	LV	LAVATORY	---	SANITARY / WASTE PIPING ABOVE SLAB
A	AMPS	MTD	MOUNTED	---	VENT PIPING ABOVE SLAB
ADA	AMERICANS WITH DISABILITIES ACT	MV	MIXING VALVE	---	VENT PIPING BELOW SLAB
AFF	ABOVE FINISHED FLOOR	OD	OUTSIDE DIAMETER	---	COLD WATER PIPING
BLV	BALL VALVE	PC	PLUMBING CONTRACTOR	---	TRAP PRIMER PIPING
BLV	BALL VALVE	PDI	PLUMBING & DRAINAGE INSTITUTE	---	120 HOT WATER PIPING
CNTR	COUNTER	PH	PHASE	---	HOT WATER RETURN PIPING
CO	CLEANOUT	PSI	POUNDS PER SQUARE INCH	---	140 HOT WATER PIPING
CONT	CONTINUATION	RAW	RISE AT WALL	---	BALL VALVE
COORD	COORDINATION	RH	RIGHT HAND	---	VERTICAL BALL VALVE
CW	COLD WATER	RIC	RISE IN CHASE	---	CHECK VALVE
C#HW	COLD & HOT WATER	RIN	RISE IN WALL	---	VACUUM RELIEF VALVE
DAW	DROP AT WALL	RIN	RISE IN WALL	---	RELIEF VALVE
DEG	DEGREES	RUC	RUN UNDER COUNTER	---	THERMOMETER
DIV	DIVISION	RUF	RUN UNDER FLOOR	---	TRAP PRIMER
DIW	DROP IN WALL	RV	RELIEF VALVE	---	DROP/RISE IN LINE
DN	DOWN	S	SANITARY WASTE	---	TEE -DROP
DN&U	DOWN AND UP	SA	SHOCK ABSORBER	---	SHOCK ABSORBER
DN&W	DOWN AT WALL	SH	SHOWER	---	UNION
DNIC	DOWN IN CHASE	SK	SINK	---	MIXING VALVE
DNIN	DOWN IN WALL	SS	STAINLESS STEEL	---	FLOOR DRAIN
DO	DRAKOFF	T	THERMOMETER	---	WALL CLEANOUT
DW	DISHWASHER	TP	TRAP PRIMER	---	PLUMBING FIXTURE/ EQUIPMENT NUMBER TAG
EQ	EQUAL	TYP	TYPICAL	---	
ET	EXPANSION TANK	UIC	UP IN CHASE	---	
FD	FLOOR DRAIN	U#DNIC	UP & DOWN IN CHASE	---	
FFE	FINISHED FLOOR ELEVATION	U#DNIN	UP & DOWN IN WALL	---	
GAL	GALLONS	UIN	UP IN WALL	---	
GC	GENERAL CONTRACTOR	V	VENT	---	
GHT	GARDEN HOSE THREAD	VB	VACUUM BREAKER	---	
GPF	GALLONS PER FLUSH	VC	VITREOUS CHINA	---	
GPM	GALLONS PER MINUTE	VIF	VERIFY IN FIELD	---	
GV	GATE VALVE	VRV	VACUUM RELIEF VALVE	---	
HC	HEATING CONTRACTOR	VTR	VENT THRU ROOF	---	
HW	HOT WATER	W	WASTE	---	
HWB	HOT WATER RETURN	W	WASTE	---	
IE	INVERT ELEVATION	WC	WATER CLOSET, WATER COLUMN	---	
IDW	INDIRECT WASTE	WCO	WALL CLEANOUT	---	
		WSI	WARM SIDE OF INSULATION	---	

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	COLD WATER	120° WATER	SAN/ WASTE	VENT	REMARKS	MOUNTING HEIGHT
DW-1	DISHWASHER UNDER COUNTER		1/2"	1-1/4" x 1-1/2"	1-1/2"	UNIT BY GC	PER MANUF'R
LV-1	LAVATORY, SOLID SURFACE W/ INTEGRAL BOWLS	3/8"	3/8"	1-1/4" x 1-1/2"	1-1/2"	SINGLE HANDLE FAUCET	COUNTER VIF
LV-2	LAVATORY, SOLID SURFACE W/ INTEGRAL BOWLS - ADA	3/8"	3/8"	1-1/4" x 1-1/2"	1-1/2"	SINGLE HANDLE FAUCET	COUNTER 34"
SH-1	SHOWER, RIGHT HAND - ADA	1/2"	1/2"	2"	1-1/2"	GELCOAT FIBERGLASS, GRAB BARS, SEAT, 36"x36"x82" OD	CONTROLS ADA
SK-1	SINK, SINGLE BOWL - ADA	1/2"	1/2"	1-1/2"	1-1/2"	5.5. 22"x25"x6-1/2" KITCHEN FAUCET W/ SPRAY	COUNTER 34"
UR-1	URINAL, WALL MTD	1"		2"	1-1/2"	WATER SAVER FV, VC, CARRIER	STANDARD
UR-2	URINAL, WALL MTD - ADA	1"		2"	1-1/2"	WATER SAVER FV, VC, CARRIER	RIM 17" AFF
WB-1	WATER SUPPLY BOX FOR REFRIGERATOR ICE MAKER	1/2"				RECESSED PLASTIC BOX WITH SHUTOFF VALVE	PER MANUF'R
WC-1	WATER CLOSET, FV, WALL MTD - STANDARD	1/2"		3"	2"	1.1 / 1.6 GPF, VC	RIM 15" AFF
WC-2	WATER CLOSET, FV, WALL MTD - ADA	1/2"		3"	2"	1.1 / 1.6 GPF, VC	RIM 16-1/2" TO 17" AFF
WC-3	WATER CLOSET, RH FV, WALL MTD, RIGHT HAND - ADA	1/2"		3"	2"	1.1 / 1.6 GPF, VC, RIGHT HAND FLUSH VALVE	RIM 16-1/2" TO 17" AFF

WATER HEATER SCHEDULE

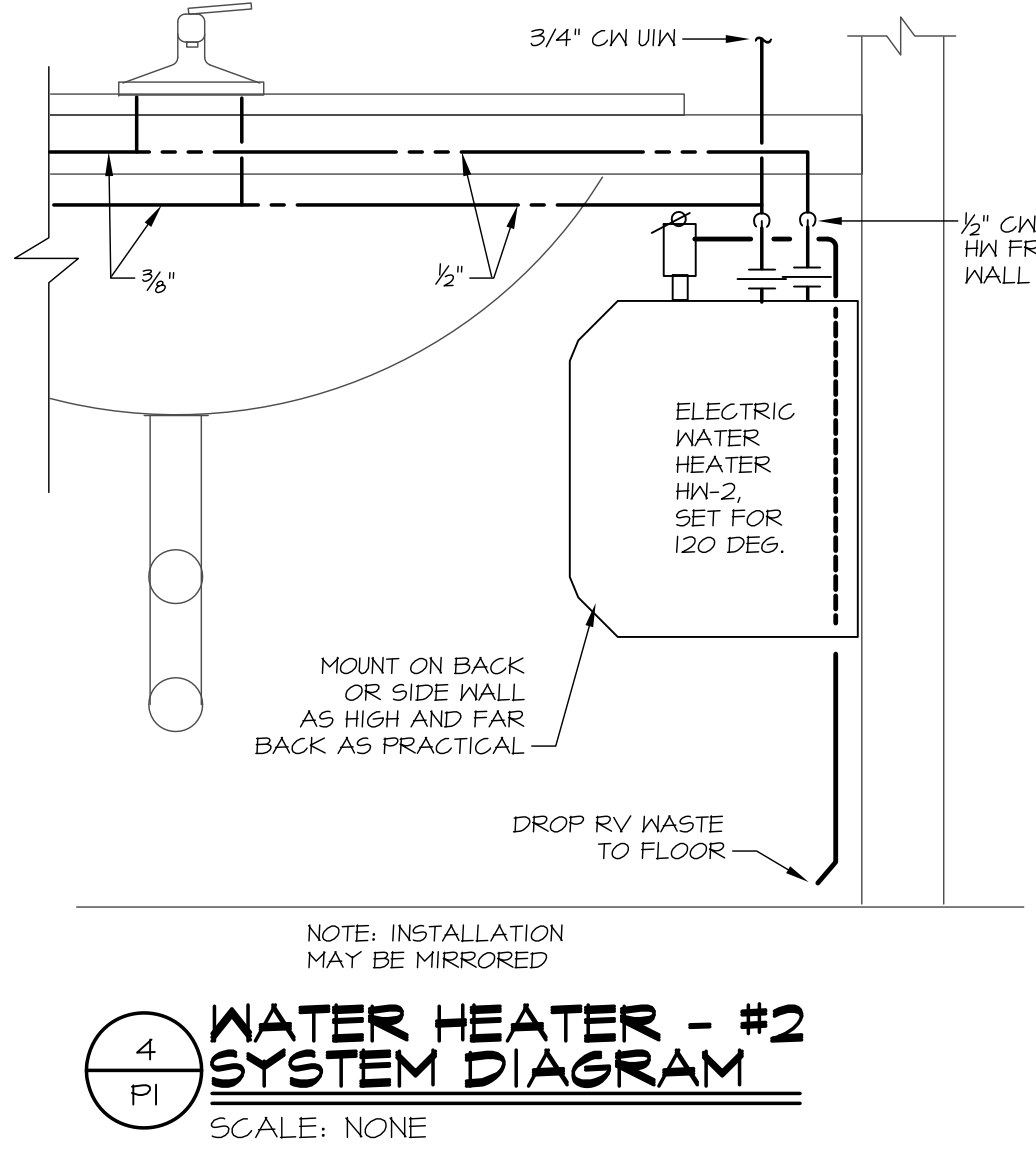
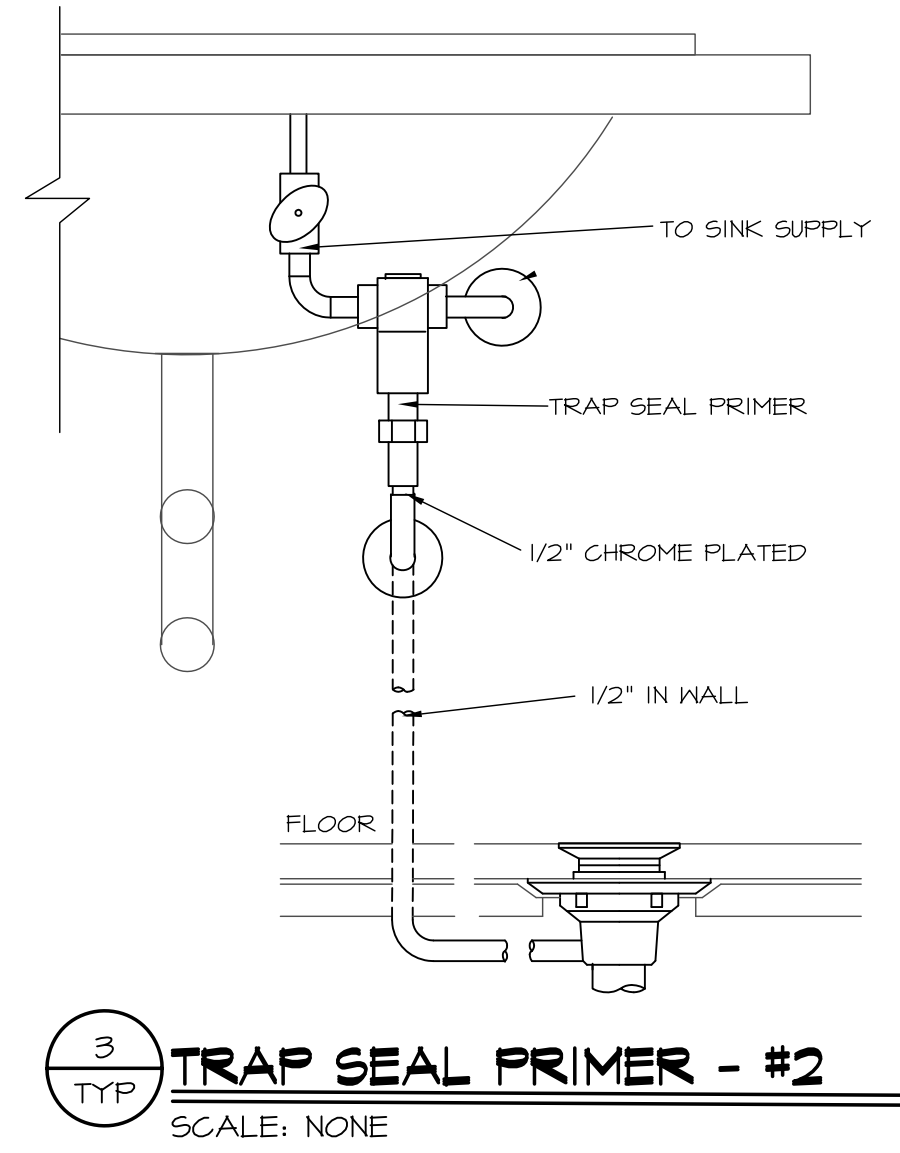
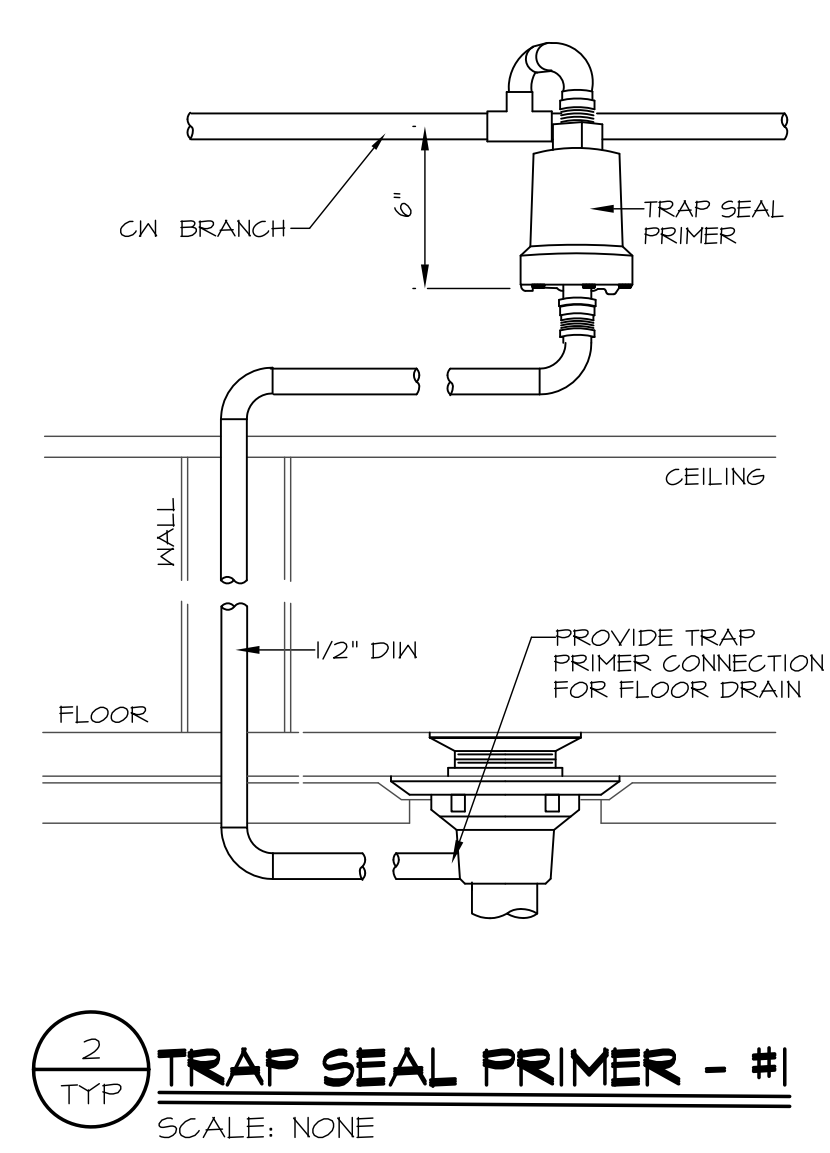
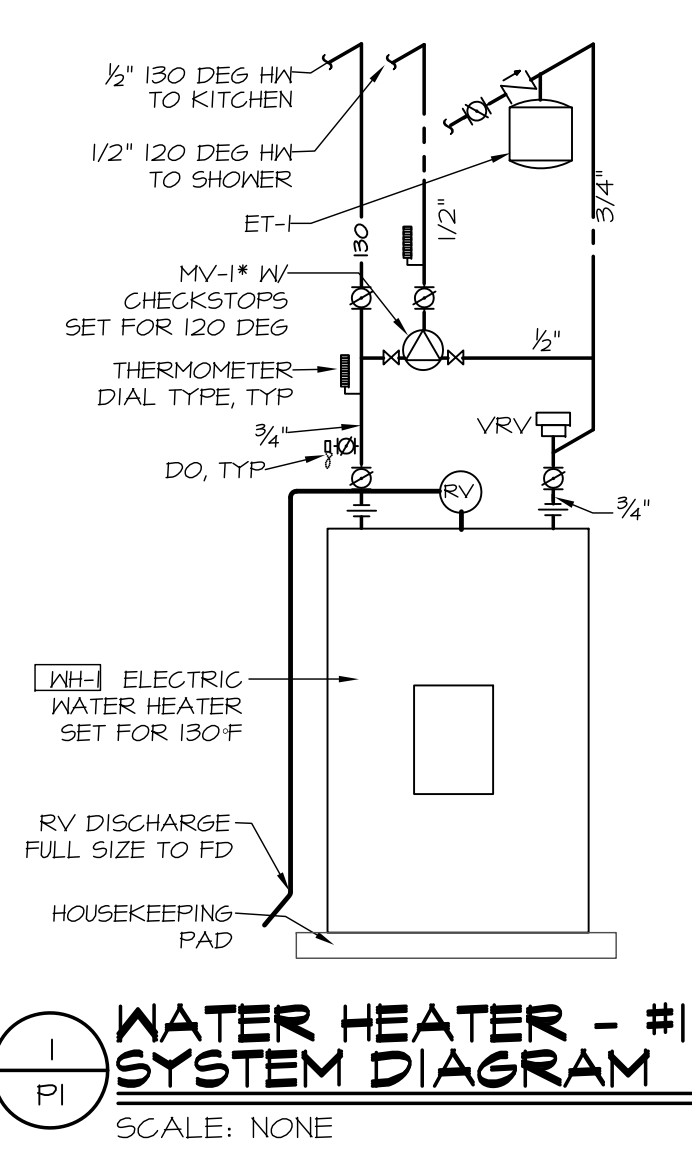
TAG	ITEM	GAL	WATTS	VOLTS	PH	REMARKS
WH-1	ELECTRIC WATER HEATER	60	4500	240	1	ELEC. BY EC SET AT 130 DEG
WH-2	POINT OF USE ELECTRIC WATER HEATER	4	1500	120	1	ELEC. OUTLET BY EC SET AT 120 DEG

WATER SPEC. SCHEDULE

TAG	ITEM	CW	HW	OUTLET	REMARKS
ET-1	EXPANSION TANK POTABLE WATER	3/4"	-	-	
MV-1	MASTER MIXING VALVE	1/2"	1/2"	1/2"	120°
SA-1	SHOCK ABSORBER	3/4"	-	-	P.D.I. A
TP-1	TRAP SEAL PRIMER	1/2"	-	-	SAME
TP-2	UNDERLAY TRAP SEAL PRIMER	1/2"	-	-	SAME

DRAIN SPEC. SCHEDULE

TAG	ITEM	WASTE	VENT	REMARKS
FD-1	GENERAL ROUND FLOOR DRAIN	3"	1-1/2"	
FD-2	INDIRECT WASTE FLOOR DRAIN	3"	1-1/2"	
WCO-1	WALL CLEANOUT	SIZE OF PIPE*		*NOT TO EXCEED 4" DIAM.



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SCALE: NONE

PLUMBING DETAILS & SCHEDULES

P2.1

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