

## GENERAL NOTES

- All work shall be in accordance with the State 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 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 containing liquid 2" and larger shall be supported from the top chord of bar joists unless permission to do otherwise is obtained from the Structural Consultant. 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 draw-offs at low points. Piping shall be run neatly grouped together when practical. Allow room between all piping and other obstructions to allow for the installation of the specified pipe insulation.
- 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 and storm water piping shall be insulated unless otherwise specified.
- Run all piping on warm side of building insulation. No water, or drain 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, 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

I40	I40 DEG F HOT WATER	IDW	INDIRECT WASTE	-----	SANITARY/ WASTE PIPING BELOW SLAB
●	AT	LV	LAVATORY	_____	SANITARY / WASTE PIPING ABOVE SLAB
A	AMPS, AQUASTAT	MTD	MOUNTED	-----	EXIST. SANITARY/ WASTE PIPING BELOW SLAB
ADA	AMERICANS WITH DISABILITIES ACT	MV	MIXING VALVE	-----	EXIST. SANITARY/ WASTE PIPING BELOW SLAB
ADA	AMERICANS WITH DISABILITIES ACT	NB	NICKEL BRONZE	-----	EXIST. SANITARY/ WASTE PIPING BELOW SLAB
AFF	ABOVE FINISHED FLOOR	OD	OUTSIDE DIAMETER	-----	VENT PIPING ABOVE SLAB
AFF	ABOVE FINISHED FLOOR	OD	OUTSIDE DIAMETER	-----	VENT PIPING BELOW SLAB
BFP	BACKFLOW PREVENTER	PC	PLUMBING CONTRACTOR	-----	VENT PIPING BELOW SLAB
BLV	BALL VALVE	PDI	PLUMBING & DRAINAGE INSTITUTE	----- PD	PUMP DISCHARGE PIPING ABOVE SLAB
BV	BALANCE VALVE	PG	PRESSURE GAUGE	-----	COLD WATER PIPING
CNTR	COUNTER	PH	PHASE	----- TP	EXIST. COLD WATER PIPING
CO	CLEANOUT	PH	PHASE	----- TP	TRAP PRIMER PIPING
CO	CLEANOUT	PD	PUMP DISCHARGE	----- TP	TRAP PRIMER PIPING BELOW SLAB
CONT	CONTINUATION	RAD	RADON	-----	TRAP PRIMER PIPING BELOW SLAB
COORD	COORDINATION	RAW	RISE AT WALL	-----	120 HOT WATER PIPING
CW	COLD WATER	RH	RIGHT HAND	-----	HOT WATER RETURN PIPING
CW	COLD WATER	RH	RIGHT HAND	-----	HOT WATER RETURN PIPING
CHW	COLD & HOT WATER	RIW	RISE IN WALL	----- I40	I40 HOT WATER PIPING
DAM	DROP AT WALL	RUC	RUN UNDER COUNTER	----- G	GAS PIPING
DEG	DEGREES	RUF	RUN UNDER FLOOR	-----	GAS PIPING
DEG	DEGREES	RV	RELIEF VALVE	-----	RADON GAS COLLECTION PIPING BELOW SLAB
DIC	DROP IN CHASE	S	SANITARY WASTE	-----	RADON GAS COLLECTION PIPING BELOW SLAB
DIV	DIVISION	SA	SHOCK ABSORBER	----- X	EXIST. PIPING TO BE REMOVED
DIW	DROP IN WALL	SK	SINK	----- X	EXIST. PIPING TO BE REMOVED
DN	DOWN	SS	STAINLESS STEEL	-----	
DNAM	DOWN AT WALL	ST	STACK	-----	
DNIC	DOWN IN CHASE	SV	STACK VENT	-----	BALL VALVE
DNW	DOWN IN WALL	T	THERMOMETER	-----	VERTICAL BALL VALVE
DO	DRAW-OFF	TS	TUB/SHOWER	-----	BALANCING VALVE
EA	EACH	TYP	TYPICAL	-----	CHECK VALVE
ET	EXPANSION TANK	UIC	UP IN CHASE	-----	BACKFLOW PREVENTER
FCO	FLOOR CLEANOUT	U&DNAM	UP & DOWN AT WALL	-----	VACUUM RELIEF VALVE
FD	FLOOR DRAIN	U&DNIC	UP & DOWN IN CHASE	-----	VACUUM RELIEF VALVE
FFE	FINISHED FLOOR ELEVATION	U&DNW	UP & DOWN IN WALL	-----	RELIEF VALVE
G	GAS (FUEL)	UW	UP IN WALL	-----	PRESSURE REDUCING VALVE
GAL	GALLONS	V	VENT	-----	THERMOMETER
GC	GENERAL CONTRACTOR	VB	VACUUM BREAKER	-----	PRESSURE GAUGE
GC	GENERAL CONTRACTOR	VC	VITREOUS CHINA	-----	TRAP PRIMER
GHT	GARDEN HOSE THREAD	VIF	VERIFY IN FIELD	-----	DROP/RISE IN LINE
GPF	GALLONS PER FLUSH	VRV	VACUUM RELIEF VALVE	-----	LINE UP TO FLOOR ABOVE
GPM	GALLONS PER MINUTE	VS	VENT STACK	-----	TEE -DROP
GV	GATE VALVE	VTR	VENT THRU ROOF	-----	SHOCK ABSORBER
HB	HOSE BIB	W	WASTE	-----	UNION
HC	HEATING CONTRACTOR	WC	WATER CLOSET, WATER COLUMN	-----	MIXING VALVE
HW	HOT WATER	WCO	WALL CLEANOUT	-----	FLOOR CLEANOUT
HWR	HOT WATER RETURN	WSI	WARM SIDE OF INSULATION	-----	FLOOR DRAIN
IE	INVERT ELEVATION			-----	WALL CLEANOUT
				-----	VENT THROUGH ROOF
				-----	HOSE BIB
				-----	PLUMBING FIXTURE/ EQUIPMENT NUMBER TAG

## PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	COLD WATER	120° WATER	SAN/ WASTE	VENT	REMARKS	MOUNTING HEIGHT
LV-1	LAVATORY, WALL MTD	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	VC, TWO HANDLE FAUCET, CARRIER	RIM 34"
LV-3	LAVATORY, WALL MTD, - ADA	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	VC, TWO HANDLE FAUCET, CARRIER	RIM 34"
LV-1	LAVATORY, VANITY TOP 48" CENTERED BOWL	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	VC, TWO HANDLE FAUCET,	CABINET
SK-1	SINK, SINGLE BOWL	1/2"	1/2"	1-1/2"	1-1/2"	S.S. 22"x25"x8" KITCHEN FAUCET	COUNTER
SK-2	SINK, SINGLE BOWL ADA	1/2"	1/2"	1-1/2"	1-1/2"	S.S. 22"x25"x6-1/2" KITCHEN FAUCET	COUNTER
TS-1	TUB/SHOWER - RH	1/2"	1/2"	2"	1-1/2"	FIBERGLASS, 60" X 32" TUB & SHOWER CONTROLS	
TS-2	TUB/SHOWER - LH	1/2"	1/2"	2"	1-1/2"	FIBERGLASS, 60" X 32" TUB & SHOWER CONTROLS	
TS-3I	TUB/SHOWER - RH- ADA	1/2"	1/2"	2"	1-1/2"	FIBERGLASS, 60" X 32" TUB & SHOWER CONTROLS	
WC-1	WATER CLOSET, TANK, FLOOR MTD	1/2"		3"	2"	1.2B GFF, VC, 15" TO RIM INSULATED TANK	FLOOR
WC-2	WATER CLOSET, TANK, FLOOR MTD - ADA	1/2"		3"	2"	1.2B GFF, VC, 16-1/2" TO RIM INSULATED TANK	FLOOR

## PUMP SCHEDULE

TAG	ITEM	SERVICE	GPM	HEAD	HP	VOLTS	REMARKS
EP-1	EJECTOR PUMPS	BASEMENT SEWER	50 EACH	30	2 EACH	230	DUPLEX PACKAGED ELEC. BY DIV. 16

## WATER SPEC. SCHEDULE

TAG	ITEM	CW	HW	OUTLET	REMARKS
BFP-1	WATER ENTRANCE BACKFLOW PREVENTER	1"	-	SAME	1" IDW
BFP-2	BOILER MAKE-UP WATER (IF ANY)	3/4"	-	SAME	
ET-1	EXPANSION TANK POTABLE WATER	3/4"	-	-	
HB-1	NON-FREEZE HOSE BIB W/ VB	3/4"	-	3/4" GHT	
MV-1	MASTER MIXING VALVE	1"	1"	1"	120°
SA-1	SHOCK ABSORBER	1/2" OR 3/4"	-	-	P.D.I. A

## DRAIN SPEC. SCHEDULE

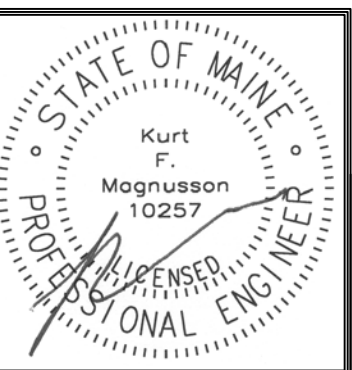
TAG	ITEM	WASTE	VENT	REMARKS
BWV	BACKWATER VALVE WITH CO EXTENSION	SIZE OF PIPE	-	
FCO-1	ROUND, FINISHED AREAS FLOOR CLEANOUT	SIZE OF PIPE	-	
FD-1	ROUND RECESSED GRATE FLOOR DRAIN	3"	1-1/2"	
WCO-1	WALL CLEAN OUT	SIZE OF PIPE	-	

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NOT A CONTRACT  
DOCUMENT



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MSE PROJECT 1516



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**PLUMBING NOTES AND SCHEDULES**