

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 indeterminate 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.
- 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 any 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 1/8" 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.

MINIMUM FIXTURE COUNTS:

THIS DESIGN MEETS UPC 2015 CH. 4 MINIMUM PLUMBING FACILITIES.

OCCUPANCIES:

A. R-1 RESIDENTIAL OCCUPANCY (MINIMUM STAY) - HOTELS, MOTELS, BED AND BREAKFAST HOMES, FOR GUEST ROOMS, BY HAVING: A MINIMUM OF 1 WATER CLOSET AND 1 LAVATORY PER SLEEPING ROOM, AND 1 SERVICE SINK IN THE BUILDING.

B. A-2 ASSEMBLY OCCUPANCY - RESTAURANTS, PUBS, LOUNGES AND BANQUET HALLS, FOR RESTAURANT / LOUNGE WITH 120 SEATS BY HAVING:
 (1) 2 MALE WATER CLOSETS, 2 URINALS AND TWO LAVATORIES WHICH IS GOOD FOR UP TO 150 MALES.
 (2) 4 WATER CLOSETS AND 2 LAVATORIES WHICH IS GOOD FOR UP TO 200 FEMALES.

WATER SPEC. SCHEDULE

TAG	ITEM	CW	HW	OUTLET	REMARKS
BFP-1	HOUSE WATER ENTRANCE RPZ BACKFLOW PREVENTER	3"	-	SAME	
BFP-2	NO SENR CHARGE RPZ BACKFLOW PREVENTER	1"	-	SAME	
BFP-3	IRRIGATION RPZ BACKFLOW PREVENTER	1"	-	SAME	
ET-1	EXPANSION TANK POTABLE WATER	1"	-	-	15 GAL ACCEPT.
HB-1	NON-FREEZE HOSE BIB W/ VB	3/4"	-	3/2 GHT	
M-1	MAIN BUILDING METER	3"	-	SAME	
M-2	NO SENR CHARGE METER	1"	-	SAME	
DRV-1	DIGITAL RE-CIRCULATION VALVE	1-1/2"	1-1/2"	2"	120°
MV-1	MIXING VALVE	1"	1"	1"	140°
PRV-1	HOUSE WATER ENTRANCE PRESSURE REGULATING VALVE	3"	-	SAME	80 PSI
PRV-2	NO SENR CHARGE PRESSURE REGULATING VALVE	1"	-	SAME	80 PSI
SA-1	SHOCK ABSORBER	3/4"	-	-	P.D.I. A
SA-2	SHOCK ABSORBER	1"	-	-	P.D.I. B
TP-1	TRAP SEAL PRIMER	1/2"	-	SAME	

KITCHEN AND LAUNDRY SCHEDULE

TAG	FIXTURE	COLD WATER	120 WATER	140 WATER	165 WATER	INDIRECT WASTE	DIRECT WASTE	VENT	GAS	REMARKS
1	SINK, 3 COMPARTMENT	3/4" TO TWO 1/2"		3/4" TO TWO 1/2"			THREE 2" TO ONE 2"	1-1/2"		FIXTURE BY G.C.
3	MOP BASIN	1/2"		1/2"			3"	1-1/2"		FIXTURE BY G.C.
12AB	VENTLESS DISHWASHER	1/2"		1/2"		1-1/2"				APPLIANCE WITH BOOSTER BY G.C. FIXTURE BY G.C.
13	SOILED DISHTABLE	1/2"		1/2"			2"	1-1/2"		FIXTURE BY G.C.
14	COMBI OVEN	TWO 1/2"		2"		1"				APPLIANCE BY G.C.
20	HAND SINK	1/2"	1/2"				1-1/2"	1-1/2"		FIXTURE BY G.C.
21	BEVERAGE COUNTER WITH SINK	1/2"	1/2"			1-1/2"				FIXTURE BY G.C.
30	FLOOR TROUGH						4"	2"		FIXTURE BY G.C.
31	ICE BIN					3/4"				APPLIANCE BY G.C.
32	ICE MAKER	1/2"				3/4"				APPLIANCE BY G.C.
44	REFRIGERATOR					3/4"				APPLIANCE BY G.C.
50	GLASSWASHER			1/2"		1"				APPLIANCE BY G.C.
52	UNDERBAR HAND SINK	1/2"	1/2"				1-1/2" TO 2"	2"		FIXTURE BY G.C.
53	UNDERBAR DRAIN BOARD					1-1/2"				FIXTURE BY G.C.
57	UNDERBAR ICE CHEST					3/4"				APPLIANCE BY G.C.
67	WATER FILTER	3/4"								APPLIANCE BY G.C.
74	CHEFS CENTER	1/2"		1/2"		1 & 1-1/2"				APPLIANCE BY G.C.
74	DROP IN SINK	1/2"	1/2"				1-1/2"	1-1/2"		FIXTURE BY G.C.
81	ICE MACHINE			3/4"		TWO 3/4"				APPLIANCE BY G.C.
83	COLD FOOD WELL					1"				APPLIANCE BY G.C.
88	COLD FOOD WELL					1"				APPLIANCE BY G.C.
43	HYDRATION WATER DISPENSER	1/2"				1"				APPLIANCE BY G.C.
L-1	COMMERCIAL GAS CLOTHES DRYER								1"	APPLIANCE BY G.C.
L-2	COMMERCIAL CLOTHES WASHER	1"			1"	3" TO TRENCH				APPLIANCE BY G.C.

PUMP SCHEDULE

TAG	ITEM	SERVICE	GPM	HEAD	HP	VOLTS	REMARKS
DCP-1	DOMESTIC RECIRC PUMP	120° HW RECIRC LOOP	12	20'	1/8	115 SINGLE	3/4" BRONZE ELEC. BY DIV. 16 TWO IN PARALLEL
DCP-2	DOMESTIC RECIRC PUMP	140° HW RECIRC LOOP	4	9'	1/40	115 SINGLE	3/4" BRONZE ELEC. BY DIV. 16
SP-1	ELEVATOR SUMP PUMP	ELEVATOR SHAFT	50	18'	1/2	115 SINGLE	OIL MINDER ELEC. BY EG

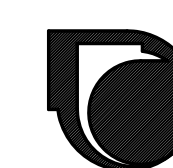
DRAIN SPEC. SCHEDULE

TAG	ITEM	WASTE	VENT	REMARKS
FCO-1	ROUND, FINISHED AREAS FLOOR CLEANOUT	SIZE OF PIPE	-	
FCO-2	ROUND W/ CARPET MARKER FLOOR CLEANOUT	SIZE OF PIPE	-	
FD-1	ROUND, FINISHED FLOOR DRAIN	3"	1-1/2"	
FD-2	ROUND RECESSED GRATE FLOOR DRAIN	3"	1-1/2"	
FD-3	ROUND FLOOR SINK FLOOR DRAIN W/FUNNEL	3"	1-1/2"	
FD-4	ROUND FLOOR SINK FLOOR DRAIN W/ FUNNEL	4"	2"	
GT-1	GREASE TRAP RECESSED	3"		3" OUT
RD-1	ROOF DRAIN, DUEL REGULAR AND EMERGENCY OVERFLOW	4" & 4"	-	
RD-2	ROOF DRAIN, DUEL REGULAR AND EMERGENCY OVERFLOW	3" & 3"	-	
WC0-1	WALL CLEAN OUT	SIZE OF PIPE	-	
WT-1	WASHING MACHINE TROUGH	4"	2"	WITH INTEGRAL LINT FILTER

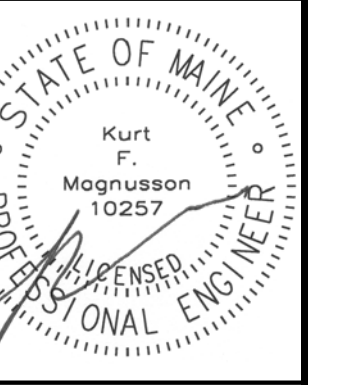
PLUMBING FIXTURE SCHEDULE*

TAG	FIXTURE	COLD WATER	HOT WATER	SAN/ WASTE	VENT	SPECIFICATION AND REMARKS
DB-1	DRAIN BOX			1-1/2"	1-1/2"	
EW-1	EYE WASH	1/2"	1/2"	1-1/2"	1-1/2"	1/2" G4HW TO TEMPERING VALVE, 1/2" 80 DEG TO FIXTURE.
LT-1	LAUNDRY TUB ON METAL LEGS	1/2"	1/2" 140°	1-1/2"	1-1/2"	MOLDED STONE LAUNDRY TUB ON METAL LEGS. CHROME TWO HANDLE LAUNDRY FAUCET, DRAIN, PVC P-TRAP, AND CHROME SUPPLIES WITH INTEGRAL STOPS.
LV-1	LAV DECK, SINGLE BOWL, WALL MTD	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	SOLID SURFACE WITH INTEGRAL BOWL BY G.C. BOWL POSITION VARIES (SEE PLANS). PROVIDE CHROME SINGLE HANDLE FAUCET WITH POP-UP DRAIN, CHROME P-TRAP, AND CHROME SUPPLIES WITH INTEGRAL STOPS.
LV-2	LAV DECK, SINGLE BOWL, WALL MTD ADA	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	SAME AS ABOVE EXCEPT WITH ADA INSULATION KIT.
LV-3	LAVATORY, WALL MTD ADA	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	WHITE (COTTON), VC WALL MOUNTED WHEELCHAIR LAVATORY, AUTOMATIC DECK MOUNTED GOOSENECK FAUCET, CHROME, P-TRAP AND CHROME SUPPLIES W/ WHEEL HANDLE STOPS & ESCUTCHEONS, CHROME GRID DRAIN, ADA INSULATION KIT
LV-4	LAVATORY, UNDERCOUNTER ADA	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	WHITE (COTTON), VC UNDER MOUNTED OVAL LAVATORY, CHROME SINGLE HANDLE FAUCET WITH POP-UP DRAIN, P-TRAP AND CHROME SUPPLIES W/ WHEEL HANDLE STOPS & ESCUTCHEONS, CHROME GRID DRAIN, ADA INSULATION KIT
MB-1	MOB BASIN	1/2"	1/2" 140°	3"	1-1/2"	24"x24"x10" WHITE MOLDED STONE. TWO HANDLE WALL MOUNTED SERVICE FAUCET W/ VB AND STOPS, CHROME. PVC P-TRAP, ACCESSORIES.
SH-1	SHOWER, LONG, RIGHT HAND HEAD	1/2"	1/2"	2"	1-1/2"	STALL BY G.C. (SEE ARCHITECTURAL PLANS AND ELEVATIONS). PROVIDE CHROME SINGLE HANDLE PRESSURE BALANCED SHOWER VALVE WITH INTEGRAL STOPS, DIVERTER VALVE, FIXED AND HAND HELD SHOWER HEADS, CHROME, SHOWER DRAIN.
SH-2	SHOWER, LONG, LEFT HAND HEAD	1/2"	1/2"	2"	1-1/2"	SAME AS ABOVE EXCEPT MIRRORED.
SH-3	SHOWER, 3 FOOT SQUARE, RIGHT HAND HEAD	1/2"	1/2"	2"	1-1/2"	STALL BY G.C. (SEE ARCHITECTURAL PLANS AND ELEVATIONS). PROVIDE CHROME SINGLE HANDLE PRESSURE BALANCED SHOWER VALVE WITH INTEGRAL STOPS, DIVERTER VALVE, FIXED AND HAND HELD SHOWER HEADS, CHROME, SHOWER DRAIN.
SH-4	SHOWER, 3 FOOT SQUARE, LEFT HAND HEAD	1/2"	1/2"	2"	1-1/2"	SAME AS ABOVE EXCEPT MIRRORED.
SH-5	SHOWER, LONG, BACK VALVE, RIGHT HAND FIXED HEAD ADA	1/2"	1/2"	2"	1-1/2"	STALL BY G.C. (SEE ARCHITECTURAL PLANS AND ELEVATIONS). PROVIDE CHROME SINGLE HANDLE PRESSURE BALANCED SHOWER VALVE WITH INTEGRAL STOPS, DIVERTER VALVE, FIXED AND HAND HELD SHOWER HEADS, CHROME, SHOWER DRAIN.
SH-6	SHOWER, LONG, BACK VALVE, LEFT HAND FIXED HEAD ADA	1/2"	1/2"	2"	1-1/2"	SAME AS ABOVE EXCEPT MIRRORED.
SK-1	SINK, SMALL, SINGLE BOWL, COUNTER MTD - ADA	1/2"	1/2"	1-1/2"	1-1/2"	SINGLE BOWL SINK, 5.5, 6-1/2" DEEP BOWL, BASKET DRAIN, DECK MOUNTED TWO HANDLE GOOSENECK PANTRY FAUCET, CHROME, INSULATED P-TRAP AND SUPPLY COVERS AND CHROME WHEEL HANDLE SUPPLIES.
SK-2	SINK, SINGLE BOWL, COUNTER MTD - ADA	1/2"	1/2"	1-1/2"	1-1/2"	SINGLE BOWL SINK, 18 GA 5.5, 25"x22"x6-1/2" DEEP BOWL, BASKET DRAIN. DECK MOUNTED KITCHEN FAUCET, CHROME, INSULATED P-TRAP AND SUPPLY COVERS AND CHROME WHEEL HANDLE SUPPLIES.
UR-1	URINAL, WALL MOUNTED, AUTO FLUSH VALVE	1"		2"	1-1/2"	WHITE VITREOUS CHINA, 0,125 GPF AUTO FLUSH VALVE. CARRIER MOUNTED.
UR-2	URINAL, WALL MOUNTED, AUTO FLUSH VALVE - ADA	1"		2"	1-1/2"	WHITE VITREOUS CHINA, 0,125 GPF AUTO FLUSH VALVE. CARRIER MOUNTED. 17" TO RIM.
WB-1	WATER SUPPLY BOX	1/2"				RECESSED WHITE, HEIGHT VARIES, RUN FLEX CONNECT TO EQUIPMENT
WC-1	WATER CLOSET, FLOOR MTD, TANK TYPE	1/2"	-	3"	2"	ELONGATED BOWL, WHITE, VC, RIM 15". SEAT WITH COVER.
WC-2	WATER CLOSET, FLOOR MTD, TANK TYPE - ADA	1/2"	-	3"	2"	ELONGATED BOWL, WHITE, VC, RIM 16-1/2". SEAT WITH COVER.
WC-3	WATER CLOSET, WALL MTD, AUTO FLUSH VALVE - ADA	1"	-	3"	2"	ELONGATED BOWL, WHITE, VC, RIM 16-1/4". COMMERCIAL PLASTIC SEAT.
WC-4	WATER CLOSET, WALL MTD, AUTO FLUSH VALVE - ADA	1"	-	3"	2"	ELONGATED BOWL, WHITE, VC, RIM 16-1/4". COMMERCIAL PLASTIC SEAT.
WC-5	WATER CLOSET, WALL MTD, AUTO FLUSH VALVE	1"	-	3"	2"	ELONGATED BOWL, WHITE, VC, RIM 15" AFF. COMMERCIAL PLASTIC SEAT.
WC-6	WATER CLOSET, WALL MTD, AUTO FLUSH VALVE - ADA	1"	-	3"	2"	ELONGATED BOWL, WHITE, VC, RIM 17" AFF. COMMERCIAL PLASTIC SEAT.

* SEE MARRIOTT AC HOTEL INTERIOR PRODUCTS & FINISHES SPECIFICATIONS FOR ADDITIONAL INFORMATION & REQUIREMENTS.



MECHANICAL SYSTEMS ENGINEERS
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AC HOTELS by MARRIOTT
 Fore Street / Hancock Street / Thames Street
 Portland, Maine

REVISION:

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 RELEASED FOR PRICING 12/21/2016
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project architect: KAK
 drawn by: EJP

PLUMBING NOTES AND SCHEDULES

sheet number:

P15