

PLUMBING LEGEND

MARK/SYMBOL	DESCRIPTION
---	COLD WATER (CW)
----	HOT WATER (HW, 110° F)
----	HOT WATER (HW, 140° F)
----	HOT WATER RETURN(HWR)
----	DRAIN/WASTE (D)
----	VENT (V)
----	OIL WASTE (OWS)
----	GREASE INTERCEPTED WASTE (TGI)
----	NATURAL GAS (NG)
----	STORM WATER (ST)
----	CONDENSATE DRAIN (CD)
⊘	BALL VALVE
⊘	BUTTERFLY VALVE
⊘	GATE VALVE
⊘	GLOBE VALVE
⊘	PLUG VALVE
⊘	CHECK VALVE
⊘	PRESSURE REDUCING VALVE (PRV)
⊘	ANCHOR
⊘	RELIEF VALVE
⊘	STRAINER WITH BLOWDOWN VALVE
⊘	UNION
⊘	GAS METER
⊘	WATER METER
⊘	DROP IN PIPE
⊘	RISE IN PIPE
⊘	FLOW DIRECTION ARROW
⊘	CONNECT TO EXISTING
⊘	AFF ABOVE FINISHED FLOOR
⊘	BFP BACKFLOW PREVENTER
⊘	BTUH BRITISH THERMAL UNIT PER HOUR
⊘	DB DOWNSPOUT BOOT
⊘	DF DRINKING FOUNTAIN
⊘	ECO EXTERIOR CLEANOUT
⊘	ELEC ELECTRICAL
⊘	EWG ELECTRIC WATER COOLER
⊘	FCO FLOOR CLEANOUT
⊘	FD FLOOR DRAIN
⊘	FS FLOOR SINK
⊘	GPH GALLONS PER HOUR
⊘	HB HOSE BIBB
⊘	HYD WATER HYDRANT
⊘	ICE ICE MACHINE
⊘	LAV LAV
⊘	MBH BRITISH THERMAL UNIT PER HOUR X 1000
⊘	MECH MECHANICAL
⊘	NIC NOT IN CONTRACT
⊘	PMP PUMP
⊘	REF REFRIGERATOR
⊘	SNK SINK
⊘	SS SANITARY SEWER
⊘	TP TRAP PRIMER
⊘	UR URINAL
⊘	VB VACUUM BREAKER
⊘	VTR VENT THRU ROOF
⊘	WC WATER CLOSET
⊘	WCO WALL CLEANOUT
⊘	WC WATER COLUMN
⊘	WH WATER HEATER
⊘	WHA WATER HAMMER ARRESTOR

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	HW	CW	WASTE	VENT	SUPPLY STOP	DESCRIPTION
BEV	BEVERAGE MACHINE	-	1/2"	-	-	CW	EQUIPMENT (COFFEE/BEVERAGE MACHINE) IS OWNER PROVIDED. PLUMBING CONTRACTOR TO PROVIDE ROUGH-IN PLUMBING INCLUDING SHUT-OFF VALVE IN VALVE BOX RECESSED IN WALL. BOX SHALL BE PRO-SET FIRE RATED SERIES WITH BALL VALVE. PROVIDE BACKFLOW PREVENTER IN SUPPLY; WILKINS 740. CONFIGURE BOX FOR SUPPLY DIRECT FROM MAIN.
BFP-1	BACKFLOW PREVENTER	-	LINE SIZE	-	-	-	REDUCED PRESSURE TYPE, INTEGRAL SHUT-OFF VALVES COMPLYING WITH A.S.S.E. 1013; WILKINS 975XLS-AG SERIES WITH INLET WYE STRAINER AND AIR GAP FITTING.
ET-1	EXPANSION TANK	-	-	-	-	-	DOMESTIC WATER USAGE, VERTICAL STEEL TANK, HEAVY DUTY BUTYL BLEND DIAPHRAM, POLYPROPYLENE LINED DOME, 2.0 GALLON CAPACITY; WILKINS WXTD4.
EWG-1	ELECTRIC WATER COOLER	-	1/2"	1-1/2"	1-1/2"	CW	TWIN UNIT, ONE WHEEL CHAIR ACCESSIBLE, FRONT PUSHBARS, SURFACE MOUNT, STAINLESS STEEL TOP, ARI 1010 CERTIFIED, 8 GPH, 5 YR. REFRIGERATION SYSTEM WARRANTY, LEAD FREE, 120 VAC, ELKAY EZ2SLC, PROVIDE CARRIER/HANGER.
FD-1	FLOOR DRAIN	-	-	LINE SIZE	2"	-	CAST IRON BODY, 6" ROUND POLISHED BRONZE STRAINER, VANDAL PROOF SCREWS, 4 INCH DEEP SEAL TRAP; ZURN ZN-415-6B-VP. PROVIDE WITH 'TRAP-GUARD' FOR SEAL PROTECTION WHERE ALLOWED BY LOCAL CODES, OTHERWISE, PROVIDE WITH TRAP PRIMER CONNECTION AND PRIMER PER BELOW.
HB-1	HOSE BIBB (FROST PROOF)	-	3/4"	-	-	-	AUTOMATIC DRAINING, 3/4" FPT, BRASS CONSTRUCTION, LOOSE KEY HANDLE, CONFORMING TO A.S.S.E. 1019, VACUUM BREAKER-BACKFLOW PREVENTER CONFORMING TO A.S.S.E. 1011, 3/4" HOSE THREAD NOZZEL; ZURN Z-1321.
LAV-1	LAVATORY (HANDICAP)	1/2"	1/2"	1-1/2"	1-1/2"	HW & CW	WALL HUNG, SINGLE USER WASH STATION, ONE PIECE BOWL, HAND DRYER, SOAP DISPENSER, TRAP COVER, AND SENSOR FAUCET CONFORMING TO ANSI Z124.3 FOR WALL MOUNTING, THERMOSTATIC MIXING VALVE; BRADLEY ADVOCATE MODEL AV30-2A-3-1-HD2-C-CHAR-PO. COLOR SHALL BE VERIFIED PER ARCHITECT PRIOR TO ORDER.
MS-1	MOP SINK (SQUARE)	1/2"	1/2"	3"	2"	-	MOLDED STONE, 1-PHASE, 24KX24K1/2", 1-1/4" CURB, STAINLESS STEEL CAPS, INTEGRAL DRAIN, STAINLESS STEEL GRID STRAINER, STERN-WILLIAMS SB-800, FAUCET, SERVICE TYPE, VACUUM BREAKER, WALL BRACE, 8" SPOUT, BUCKET HOOK, 3/4" HOSE THREAD, STERN-WILLIAMS T-10-VB. MOP HANGER, STAINLESS STEEL, 24X3". STERN-WILLIAMS T-40.
MS-2	TUB SINK	1/2"	1/2"	2"	1-1/2"	-	REMOVE EXISTING TUB SINK. PROVIDE NEW PER BELOW AND RECONNECT TO EXISTING SUPPLY, DRAIN AND VENT PIPING. SINK SHALL BE HEAVY DUTY, SINGLE COMPARTMENT, 20 X 26 INCH WALL HUNG, MOLDED FOAM CONSTRUCTION, INTEGRAL DRAIN, 3-HOLE, 4" CENTERS. FAUCET, 2 BLADE HANDLE, DECK MOUNT, GOOSENECK SPOUT WITH VACUUM BREAKER, CHROME PLATED BRASS CONSTRUCTION; ZURN MS260 WITH ZS124H FAUCET WITH WALL MOUNT KIT. CONTRACTOR TO PROVIDE NEW SUPPLY STOPS, TRAP ASSEMBLY, ETC.
PRV-1	PRESSURE REDUCING VALVE	-	LINE SIZE	-	-	-	DOMESTIC WATER APPROVED, CAST IRON, FDA APPROVED NON-WICKING REINFORCED DIAPHRAM, WITH STRAINER, REMOVABLE SEAT, CAPABLE OF BEING DISASSEMBLED WITH VALVE BODY IN PLACE, FDA APPROVED EPOXY COATED INTERIOR, MEETS SBCCI STANDARD PLUMBING REQUIREMENTS; WILKINS 500CFSC. SET TO 70 PSIG.
REF	REFRIGERATOR	-	1/4"	-	-	CW	EQUIPMENT (REFRIGERATOR) IS OWNER PROVIDED. PLUMBING CONTRACTOR TO PROVIDE ROUGH-IN PLUMBING INCLUDING BALL VALVE IN POLYMER VALVE BOX RECESSED IN WALL; PRO-SET FIRE RATED SERIES.
SNK-1	SINK	1/2"	1/2"	1-1/2"	1-1/2"	HW & CW	SINGLE COMPARTMENT, COUNTER SET, 22X22X12", 18 GA. STAINLESS STEEL, SELF RIMMING, 3-HOLE, 4" CENTERS; ELKAY "LUSTERTONE" MODEL DLR-2222. FAUCET, 2 HANDLE, DECK MOUNT, SWING SPOUT, WING HANDLES; ZURN Z-871-C4. DRAIN, 3-1/2" STD STRAINER, STAINLESS STEEL BASKET. PROVIDE 115V GARBAGE DISPOSAL, 3/4 HP, CONTINUOUS FEED AND DISHWASHER CONNECTION; GE GF100DY. CONNECT SINK, DISHWASHER, AND GARBAGE DISPOSAL PER MANUFACTURER RECOMMENDATION.
TP	TRAP PRIMER	-	-	-	-	-	END OF LINE TYPE, INTEGRAL VACUUM BREAKER AND AIR GAP, COMPLYING WITH A.S.S.E. 1018, PRECISION PLUMBING PRODUCTS "OREGON #1". FOR MULTIPLE TRAP APPLICATIONS, PROVIDE WITH DISTRIBUTION UNITS.
UR-1	URINAL	-	3/4"	2"	1-1/2"	-	WALL HUNG, SENSOR OPERATED AQUAVANTAGE FLUSH VALVE, WHITE VITREOUS CHINA, INTEGRAL FLUSHING RIM AND TRAP. 18in GALFLUSH FLUSH VALVE; ZURN ZS798.235.00 WITH SIDE MOUNTED SENSOR OPERATED VALVE, PROVIDE CARRIER/HANGER.
WC-1	WATER CLOSET	-	1/2"	4"	2"	-	FLOOR MOUNT, PRESSURE ASSIST FLUSH, WHITE VITREOUS CHINA, ELONGATED BOWL, 1.6 GAL/FLUSH, ELONGATED OPEN FRON SEAT, NO LID, STAINLESS STEEL CHECK-HINGES, AMERICAN STANDARD CADET SERIES, 2487.016.
WC-2	WATER CLOSET (HANDICAP)	-	1/2"	4"	2"	-	FLOOR MOUNT, PRESSURE ASSIST FLUSH, WHITE VITREOUS CHINA, ELONGATED BOWL, 1.6 GAL/FLUSH, ELONGATED OPEN FRON SEAT, NO LID, STAINLESS STEEL CHECK-HINGES, AMERICAN STANDARD CADET SERIES, 2487.016 WITH RIGHT HAND FLUSH.
WCO	WALL CLEANOUT	-	-	LINE SIZE	-	-	BRONZE PLUG, STAINLESS STEEL WALL ACCESS COVER PLATE, ZURN Z-1446 TEE WITH ACCESS PLATE.
WHA	WATER HAMMER ARRESTOR	-	-	-	-	-	PISTON OR BELLOWS TYPE, PRECHARGED AIR OR NERT GAS CUSHION, APPROVED PER A.S.S.E. 1010 AND P.D.I. STANDARD WH-201; WATTS, SIOUX CHIEF, JOSAM, PRECISION PLUMBING PRODUCTS, OR EQUAL.

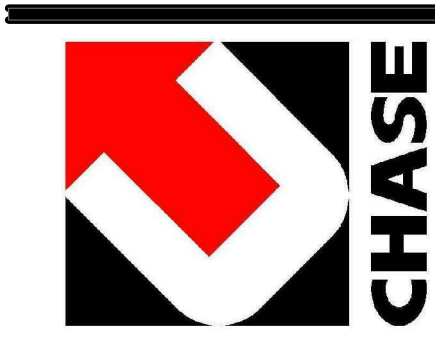
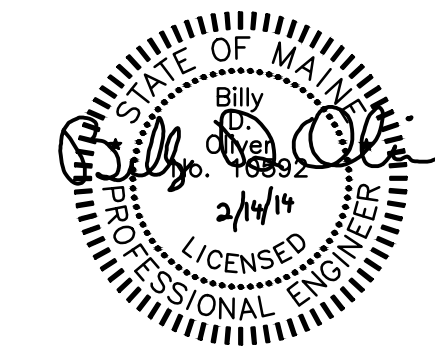
PLUMBING NOTES

- THESE DRAWINGS HAVE BEEN DEVELOPED FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS, DIMENSIONS, CLEARANCES, LOCATION OF EXISTING UTILITIES, ETC. PRIOR TO BIDDING, FABRICATION, OR INSTALLATION. DO NOT SCALE FROM THESE DRAWINGS. COORDINATE ALL STUB-UPS AND CONNECTIONS WITH MANUFACTURER INSTALLATION DATA.
- COORDINATE PLUMBING INSTALLATION AMONG TRADES TO AVOID INTERFERENCES.
- PIPING AND FITTINGS SHALL BE AS FOLLOWS:
 - POTABLE WATER PIPING ABOVE GRADE SHALL BE SCHEDULE TYPE 'L' COPPER WITH LEAD FREE TIN-SILVER SOLDER AND SWEAT FITTINGS.
 - SANITARY DRAIN, WASTE, AND VENT PIPING BURIED BELOW AND UNDER SLAB SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS. ABOVE GRADE PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS.
 - PROPANE GAS PIPING SHALL BE SCHEDULE 40, BLACK CARBON STEEL PER ASTM A53; CLASS 150 THREADED MALLEABLE IRON FITTINGS UP TO 2 INCHES; WELDED FITTINGS FOR 2-1/2 INCHES AND LARGER PER LOCAL GAS CODE REQUIREMENTS.
- ALL FIXTURES SHALL BE EQUIPPED WITH SUPPLY STOPS.
- PROVIDE CARRIERS/HANGERS FOR ALL WALL HUNG FIXTURES.
- INSULATE ABOVE SLAB POTABLE WATER (COLD, HOT, AND HOT WATER RE-CIRCULATING) PIPING WITH 1 INCH FIBERGLASS AND GENERAL SERVICE JACKET. INSULATE UNDERSLAB POTABLE WATER PIPING WITH 1/2 INCH CELLULAR FOAM INSULATION, ARMAFLEX OR EQUAL.
- PITCH HORIZONTAL PIPING TO DRAIN AS FOLLOWS:
 - UP TO 3 INCH-1/4 INCH PER FOOT OF RUN
 - OVER 3 INCH-1/8 INCH PER FOOT OF RUN
- ALL PIPING SHALL BE INSTALLED PER LOCAL CODES.
- SUPPORT HORIZONTAL PIPING FROM STRUCTURE WITHIN 1 FOOT OF ELBOWS AND AT THE MAXIMUM INTERVALS SPECIFIED BELOW:

NOMINAL PIPE SIZE	DISTANCE BETWEEN SUPPORTS
1/2 TO 1-1/4 INCH	6'-0"
1-1/2 TO 2-1/2 INCH	10'-0"
3 TO 4 INCH	12'-0"

PVC 4'-0"

SUPPORT VERTICAL PIPING WITH RISER CLAMPS WITHIN 1 FOOT OF ELBOWS AND BENDS.
- USE DIELECTRIC UNIONS (EPCO OR EQUAL) TO MAKE STEEL TO COPPER PIPING AND EQUIPMENT CONNECTIONS.
- PROVIDE CHROMED ESCUTCHEON PLATES WHERE PIPING PENETRATES FINISHED WALLS OR CEILING.
- ALL DRAINAGE CONNECTIONS SHALL BE TRAPPED UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL ROOF PENETRATIONS FOR PLUMBING PIPING SHALL BE MADE IN ACCORDANCE WITH ROOF SYSTEM MANUFACTURER GUIDELINES. COORDINATE WITH ARCHITECTURAL.
- ALL VENTS THRU ROOF SHALL EXTEND A MINIMUM OF 12 INCHES ABOVE ROOF AND BE MAINTAINED A MINIMUM OF 10 FEET FROM ALL OUTSIDE AIR INTAKES.
- HORIZONTAL VENT PIPING SHALL BE SLOPED TOWARD SEWER 1/8 INCH PER FOOT OF RUN.
- ALL SANITARY BRANCHES TO MAIN CONNECTIONS SHALL BE MADE WITH 45 DEGREE WYE OR WYE AND 1/8 BEND FITTINGS.
- CLEAN NEW PIPING AS FOLLOWS PER LOCAL CODE AND THE REQUIREMENTS OF THE LOCAL UTILITY:
 - FLUSH NEW POTABLE WATER PIPING WITH A 100 PPM CHLORINE SOLUTION. ALLOW TO STAND IN PIPES FOR TWO HOURS. THEN FLUSH WITH POTABLE WATER BEFORE PLACING IN SERVICE.
 - FLUSH ALL OTHER PIPING WITH POTABLE WATER TO REMOVE DIRT AND DEBRIS.
- TEST NEW LINES HYDROSTATICALLY AT THE PRESSURES LISTED BELOW; REPAIR LEAKS AND RETEST UNTIL THE PRESSURE HOLDS FOR ONE HOUR.
 - POTABLE WATER-150 PSIG
 - DRAIN-5 PSIG
- SHOCK ARRESTORS FOR BRANCH PIPING TO FIXTURES WITH QUICK CLOSING VALVES SHALL BE P.P.P. INC., ZURN, OR EQUAL.
- NEW BALL VALVES SHALL BE BRONZE 2-PIECE BODY, FULL PORT TYPE, THREADED CONNECTIONS, WILKINS, APOLLO, OR APPROVED EQUAL.
- SEE ARCHITECTURAL FOR MOUNTING HEIGHTS OF FIXTURES.
- ALL PIPING PENETRATIONS THROUGH NON-RATED CONSTRUCTION SHALL BE SLEEVED. SEAL PENETRATIONS THROUGH EXTERIOR WALL WEATHERTIGHT WITH SILICONE SEALANT. PROVIDE ESCUTCHEONS AT EXPOSED INTERIOR LOCATIONS. ALL PIPING PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED PER DETAIL. SEE ARCHITECTURAL FOR LOCATIONS OF RATED CONSTRUCTION.
- VENT, HW, AND CW PIPING SHALL BE ROUTED UNDERSLAB, ABOVE CEILING, AND INSIDE WALLS ON HEATED SIDE OF INSULATION TO FIXTURES.
- PRIME AND PAINT ALL EXPOSED PIPING. COLOR PER ARCHITECTURAL.
- INDIVIDUAL CONNECTIONS TO FIXTURES SHALL BE SIZED AS INDICATED IN SCHEDULE UNLESS NOTED OTHERWISE.
 - ALL UNDERSLAB DRAIN PIPING SHALL BE 4 INCH MINIMUM, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL LABEL ALL PIPING PER ASME A13.1 - SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS; THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
- INSTALL, INSPECT, TEST, AND PURGE PROPANE PIPING PER NFPA 54, LOCAL GAS CODE, AND THE REQUIREMENTS OF THE LOCAL UTILITY.
- PRIME AND PAINT PROPANE PIPING LOCATED OUTDOORS, AND WHERE EXPOSED INDOORS IN FINISHED LOCATIONS. FINISH PAINT COLOR PER ARCHITECTURAL.



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Existing Terminal Renovation for:
OLD DOMINION FREIGHT LINE
ODEL PORTLAND, ME
 185 RAND ROAD,
 PORTLAND, ME 04102

FOR PERMIT 2/14/14

Project No. 13061.00
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Sheet Name:
 PLUMBING
 SCHEDULE,
 NOTES, & DETAILS
 Sheet Number: