

**2 DOMESTIC WATER ISOMETRIC DIAGRAM**

Scale: NTS

**1 PLUMBING SUPPLY PLAN**

Scale: 1/4" = 1'-0"

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WATER PIPING TO BE ROUTED BELOW SLAB OR TO DROP IN NEAREST WALL AND ROUTE THROUGH CABINETRY FOR FRONT BAR AREA. CONTRACTOR TO DETERMINE IN FIELD THE MOST COST EFFECTIVE ROUTING AND COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO NOTE 7.

**CROSS CONNECTION CONTROL SCHEDULE**

FIXTURE	MAKE	MODEL	ASSE, ASME OR ANSI STANDARD
ICE MACHINE	AIR GAP	INTERNAL	ASSE A112.1.2
COFFEE BREWER	WATTS	SD-3	ASSE 1022
ESPRESSO MACHINE	WATTS	SD-3	ASSE 1022
BLENDER PITCHER RINSER	WATTS	SD-3	ASSE 1022
WORK SINK	AIR GAP	-	ASSE A112.1.2
HAND SINKS	AIR GAP	-	ASSE A112.1.2
DROP-IN SINKS	AIR GAP	-	ASSE A112.1.2

ALL BRASS VALVES SHALL COMPLY WITH THE 2014 EPA LEAD FREE REQUIREMENTS.

**WSFU CALCULATION**

FIXTURE	QTY.	WSFU EACH	TOTAL
EXISTING WATER CLOSET (VALVE)	2	*	70
EXISTING LAVATORY	2	1	2
EXISTING MOP SINK	1	3	3
EXISTING 3-COMPARTMENT SINK	1	4	4
EXISTING CHEMICAL DISPENSER	2	0.5	1
EXISTING WAREWASHER (.74 GPM)	1	2	2
EXISTING HAND SINK	1	1	1
RELOCATED COFFEE BREWER	1	0.5	0.5
RELOCATED ESPRESSO MACHINE	2	0.5	1
ICE MACHINE	1	0.5	0.5
HAND SINK	1	1	1
KITCHEN SINK	4	1.5	6
GLASS FILLER	2	0.5	1
INSTAHOT TAP	2	0.5	1
DIPPERWELL	2	0.5	1
HOSE BIB	1	2.5	2.5
<b>TOTAL WSFU REQUIRED</b>			<b>98.5</b>

\*TABLE 610.10 LIST 70 FU FOR 2 FLUSH VALVE TOILETS.  
98.5 WSFU REQUIRED BY THE 2009 UNIFORM PLUMBING CODE.

**PLUMBING SUPPLY NOTES**

- SEE PLUMBING SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- ALL PLUMBING LINES TO BE ROUTED SUCH THAT THEY ARE NOT VISIBLE TO CUSTOMERS EXCEPT WHERE FIRST APPROVED BY STARBUCKS AT EXPOSED CEILING AREAS.
- REFER TO MANUFACTURER SPECIFICATIONS FOR LOCATION OF CONNECTIONS UNLESS OTHERWISE NOTED.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTION TO ALL PLUMBING EQUIPMENT.
- DIMENSIONS ARE TO FINISH FACE UNLESS OTHERWISE NOTED.
- REFER TO DETAIL SHEETS FOR PLUMBING FITTINGS LOCATED IN CASEWORK.
- GENERAL CONTRACTOR SHALL CONTACT WATER FILTRATION SUPPLIER TO COORDINATE SOW AND SCHEDULE PRIOR TO INSTALLATION OF WATER FILTRATION SYSTEM.
- INSULATE ALL PIPING INCLUDING PIPES AT BAR AND IN CASEWORK PER THE REQUIREMENTS LISTED ON THE PLUMBING SPECIFICATIONS SHEET.

**SHEET NOTES**

- TIE INTO EXISTING DOMESTIC WATER SYSTEM VERIFY EXACT LOCATION, PRESSURE AND REQUIREMENTS ON SITE.
- 1/2" CW F TO NEW / RELOCATED ESPRESSO MACHINE PUMP. SEE DETAIL PROVIDED ON SHEET P-5001. REUSE EXISTING BACKFLOW PREVENTER OR INSTALL NEW ASSE 1022 BACKFLOW PREVENTER IF NONE EXISTING AS REQUIRED BY AHJ.
- 1/2" TW & CW TO SINK.
- 1/2" CW TO DIPPERWELL FAUCET. REDUCE TO 1/4" AT UNIT.
- 1/2" CW F TO INSTAHOT TAP. REDUCE TO 1/4" AT UNIT.
- 1/2" CW F TO WATER TOWER FAUCET LOCATED IN WATER STATION.
- 3/4" CW F, CW & HW TO DROP IN WALL, STUB-UP THRU FLOOR AT FRONT BAR AREA AND ROUTE THRU CABINETRY. CONNECT TO EQUIPMENT (2) 10153, (2) 10215, (2) 10874, (2) 11003 AND (2) 12694. REFER TO NOTES 1, 2, 3, 4, 5 AND 6. VERIFY ROUTING IN FIELD WITH GC PRIOR TO INSTALLATION. REUSE EXISTING STUB-UP THRU FLOOR IF POSSIBLE.
- 1/2" CW F TO RELOCATED COFFEE BREWER. INSTALL SHUT-OFF IN CABINET @ 24" AFF. REDUCE TO 3/8" AT UNIT. REUSE EXISTING BACKFLOW PREVENTER OR INSTALL NEW ASSE 1022 BACKFLOW PREVENTER IF NONE EXISTING AS REQUIRED BY AHJ.
- 1/2" HW & CW TO SINK.
- 1/2" CW SUPPLY TO PITCHER RINSER SINK. PROVIDE AN ASSE 1022 BACKFLOW PREVENTER AND ANY ADDITIONAL VALVES AS REQUIRED BY CODE AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 1/2" CW SUPPLY TO ICE MACHINE. REDUCE TO 3/8" AT MACHINE.
- ROUTE 1/2" CW F TO WATER CHILLER AS REQUIRED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 1/2" CW SUPPLY FOR IN-COUNTER RINSER AT 20-1/2" AFF.
- INSTALL N<sub>2</sub>-FUSION - NITRO DISPENSING SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. THE NITROGEN TANK IS CONNECTED TO THE BACK OF THE N<sub>2</sub>-FUSION VIA PVC BRAIDED TUBING. TWO ADDITIONAL TUBES, OR PYTHON, ARE RAN FROM THE SIDE OR TOP OF THE UNIT AND CONNECTED TO THE FRONT THROUGH A HOLE DRILLED IN THE COUNTER SURFACE. THE PYTHON (INSULATED TUBES) FROM THE N<sub>2</sub>-FUSION TO THE FONT IS 10' LONG AT MAXIMUM - FACTOR IN 6" FOR CONNECTIONS INTO THE UNIT AS WELL AS THE FONT ITSELF. THAT LEAVES 9'-6" OF THE PYTHON FREE TO CONNECT THE TWO. CALCULATE ALL VERTICAL AND HORIZONTAL RUNS AS WELL AS BENDS (WITH A MINIMUM BEND RADIUS OF 2") OF THE PYTHON TO DETERMINE THE TOTAL LENGTH NEEDED - NOT TO EXCEED 9'-6". COORDINATE ROUTING, INSTALLATION AND RESPONSIBILITY WITH GENERAL CONTRACTOR.
- 3/4" CSW TO DISHWASHER. VERIFY REQUIRED CONDITIONING (SOFTENED COLD OR COLD WATER) WITH INSTALLED WATER FILTRATION SYSTEM. INSTALL SHUT-OFF WITH 3/4" MALE HOSE-END FITTING @ 18" A.F.F. UNDER COMPARTMENT SINK. SHUT-OFF TO INCLUDE PRESSURE REDUCING VALVE, PRESSURE GAUGE (SET @ 20 PSI, +/- 5 PSI), LINE STRAINER, AND SHOCK ARRESTOR IN WALL. CONNECT SANITIZER TO CSW SUPPLY WITH 72" LONG BRAIDED STAINLESS STEEL HOSE. PROVIDE 3/8" TEE OFF OF COLD WATER LINE SERVING 3-COMPARTMENT SINK AND CONNECT TO DRAIN WATER TEMPERING KIT ACCESSORY ON DISHWASHER TO PROVIDE 140° MAX. WASTE WATER DISCHARGE TO DRAINAGE SYSTEM.
- RTU-1 & 2 TO BE REPLACED WITH NEW UNITS IN EXISTING LOCATIONS. RELOCATE OR PROVIDE NEW NATURAL GAS PIPING, REGULATORS OR VALVING AS REQUIRED. SEE M-1101 FOR MORE INFORMATION.

ISSUED FOR CONSTRUCTION - 08/23/2017



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STARBUCKS TEMPLATE VERSION I2016.12.23

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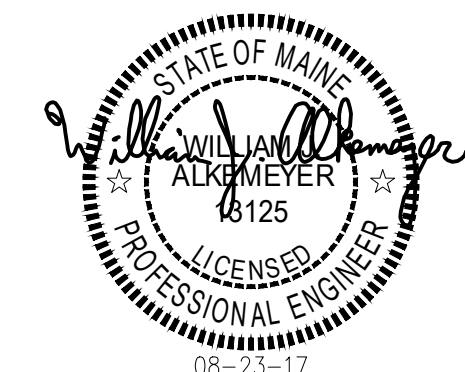
PROJECT NAME:  
**RENOVATION OF STARBUCKS COFFEE PORTLAND, 1080 FOREST AVE.**  
PROJECT ADDRESS:  
1080 FOREST AVENUE  
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CUMBERLAND COUNTY

STORE #: 11917  
PROJECT #: 37548-037  
ISSUE DATE: 08/04/2017  
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Revision Schedule			
Rev	Date	By	Description

SHEET TITLE:  
**PLUMBING SUPPLY PLAN**  
SCALE: AS SHOWN

SHEET NUMBER:  
**P-1101**



146-17