

PLUMBING SPECIFICATIONS

1. INTRODUCTION

1.1 THE CONTRACTING FOR INSTALLATION OF PLUMBING SYSTEMS WILL BE ACCOMPLISHED IN THE FIELD AT THE DIVISION LEVEL...

1.2 SCOPE OF WORK

1.2.1 PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL PLUMBING FIXTURES, ACCESSORIES, AND ATTENDANT PIPING AS STATED HEREIN...

1.3 GENERAL

1.3.1 ALL SAFETY PRECAUTIONS SHALL BE TAKEN TO PROTECT PERSON, PROPERTY, AND EQUIPMENT. 1.3.2 NO COMPENSATION FOR WORK PERFORMED OVER AND ABOVE PROJECTS SUM SHALL BE ALLOWED...

1.4 OPERATIONS AND INSTALLATION

1.4.1 ALL DELIVERIES TO COINCIDE WITH CONSTRUCTION SCHEDULE. MATERIALS SHALL BE STORED WHERE AND/OR AS DIRECTED BY THE GENERAL CONTRACTOR...

1.4.2 ALL UNDER FLOOR PIPING SHALL BE INSTALLED IN CONJUNCTION WITH THE GENERAL CONTRACTOR'S WORK SCHEDULE...

1.4.3 PLUMBING CONTRACTOR SHALL DO THE NECESSARY TRENCHING, SHORING AND BACKFILLING REQUIRED TO FULFILL HIS CONTRACT...

1.4.4 ALL OPENINGS AND STUB-UP FOR PLUMBING PIPING AND FIXTURES SHALL BE CAREFULLY LOCATED AND COORDINATED...

1.5 CODE AND PERMIT REQUIREMENTS

1.5.1 ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES, AND CODES...

1.5.2 PLUMBING CONTRACTOR SHALL OBTAIN, PAY FOR AND FURNISH ALL PERMITS REQUIRED BY LOCAL OR STATE ORDINANCES OR CODES...

2. MATERIALS

2.1 DOMESTIC WATER PIPING

2.1.1 ABOVE AND BELOW GRADE WATER PIPING SHALL BE PEX TUBING CONFORMING TO ASTM F877 CROSS-LINKED POLYETHYLENE TUBING...

2.1.2 ABOVE AND BELOW GRADE WATER PIPING SHALL BE TYPE "L" AND "M" HARD DRAWN SEAMLESS COPPER TUBING CONFORMING TO ASTM B88.

2.1.2.1 COPPER UNIONS: CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACE AND SOLDER-JOINT...

2.2 FILTERED WATER PIPING

2.2.1 ABOVE AND BELOW GRADE FILTERED WATER PIPING SHALL BE CPVC TUBING CONFORMING TO ASTM D2846 AND CSA B137 CHLORINATED POLY(VINYL CHLORIDE) PLASTIC...

2.2.1.1 FITTINGS: FITTINGS SHALL BE SOCKET TYPE JOINTS IN COMPLIANCE WITH ASTM D2846 AND CSA B137. CPVC FITTINGS SHALL BE FLOWGRAD GOLD CPVC CTS FITTINGS...

2.3 SOIL, WASTE AND VENT PIPES

2.3.1 ABOVE AND BELOW GRADE SOIL, WASTE AND VENT PIPING SHALL BE PVC PLASTIC, SCHEDULE 40 DWV PIPE CONFORMING TO ASTM D2665 WITH PLAIN ENDS...

2.3.1.1 FITTINGS SHALL BE PVC SOCKET-TYPE DWV PIPE FITTINGS; ASTM D2665 MADE TO ASTM D3311 DRAIN, WASTE AND VENT PATTERNS.

2.3.2 ABOVE AND BELOW GRADE SOIL, WASTE AND VENT PIPING SHALL BE HUB-AND-SPOUT CAST-IRON SOIL PIPE AND FITTINGS CONFORMING TO ASTM A74 WITH ASTM C564 RUBBER GASKETS...

2.3.3 ABOVE GRADE SOIL, WASTE AND VENT PIPING SHALL BE ALLOWED TO BE COPPER DRAINAGE TUBING CONFORMING TO ASTM B306 AT PLUMBING CONTRACTOR'S OPTION.

2.4 FLASHING: SHEET LEAD, 4 POUNDS PER SQUARE FOOT, MINIMUM.

2.5 INSULATION

2.5.1 DOMESTIC COLD WATER (WITHIN BUILDING):

COPPER PIPE: 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF-SEALING LAP...

PEX TUBING: NO INSULATION REQUIRED.

EXCEPTION: FOR NON-RECIRCULATING HOT WATER SYSTEM, PROVIDE 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET...

CPVC TUBING: NO INSULATION REQUIRED.

2.5.2 DOMESTIC HOT WATER:

COPPER PIPE: 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF-SEALING LAP...

PEX TUBING: 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF-SEALING LAP...

FOR HOT WATER PIPING BEING SERVED BY SYSTEM WITH RECIRCULATING PUMP, PROVIDE 1" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET...

2.5.3 INDIRECT AND CONDENSATE DRAIN PIPING (WITHIN BUILDING):

COPPER PIPE: PROVIDE 1" FLEXIBLE UNCELLULAR INSULATION BY ARMACELL.

PVC PIPING: NO INSULATION REQUIRED.

FOR PIPING AT HANGERS, PROVIDE 8" LONG SECTIONS OF HIGH DENSITY, HIGH TEMPERATURE CALCIUM SILICATE BY JOHNS-MANVILLE, FIBERGLASS BY KNAUF, OR 8" LONG STYROFOAM BILLETS BY DOW...

FOR HOT AND COLD WATER PIPING EXPOSED, CONCEALED IN WALLS, AND/OR INSTALLED INSIDE MASONRY UNITS OF WALLS, COVER FITTINGS WITH ZESTON, KNAUF, OR EQUAL ONE-PIECE PVC PREMOLDED INSULATING COVERS...

2.6 INDIRECT AND CONDENSATE DRAIN LINES:

PROVIDE HARD DRAWN, TYPE "M" OR "L" COPPER PIPE FOR ALL CONDENSATE DRAIN PIPING FROM COOLER AND FREEZER EVAPORATORS. PROVIDE HEAT TRACE FOR ALL CONDENSATE DRAIN PIPING LOCATED IN FREEZERS...

PROVIDE PVC PIPE FOR ALL OTHER INDIRECT AND CONDENSATE DRAIN PIPING FROM HVAC, PLUMBING, AND BEVERAGE EQUIPMENT...

3. TESTING AND INSPECTION:

3.1 THE ENTIRE PLUMBING SYSTEM SHALL BE TESTED BEFORE COVERING OR ENCLOSING.

3.2 INSPECTION:

WORK SHALL BE INSPECTED FOR COMPLIANCE WITH CODES, ORDINANCES, REGULATIONS AND ADHERENCE TO CONTRACT DOCUMENTS. PLUMBING CONTRACTOR SHALL SUPPLY OWNER WITH SIGNED FORMS OR PROOF OF ACCEPTANCE BY THE LOCAL AUTHORITY...

3.3 PERFORMANCE REQUIRED:

3.3.1 PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING SYSTEMS LEAK FREE AND AS PER PLANS AND SPECIFICATIONS.

3.3.2 ALL EXPOSED EQUIPMENT SHALL BE INSTALLED IN A WORKMANLIKE MANNER AND WILL BE SUBJECT TO ARCHITECTURAL INSPECTION FOR AESTHETIC APPEARANCE.

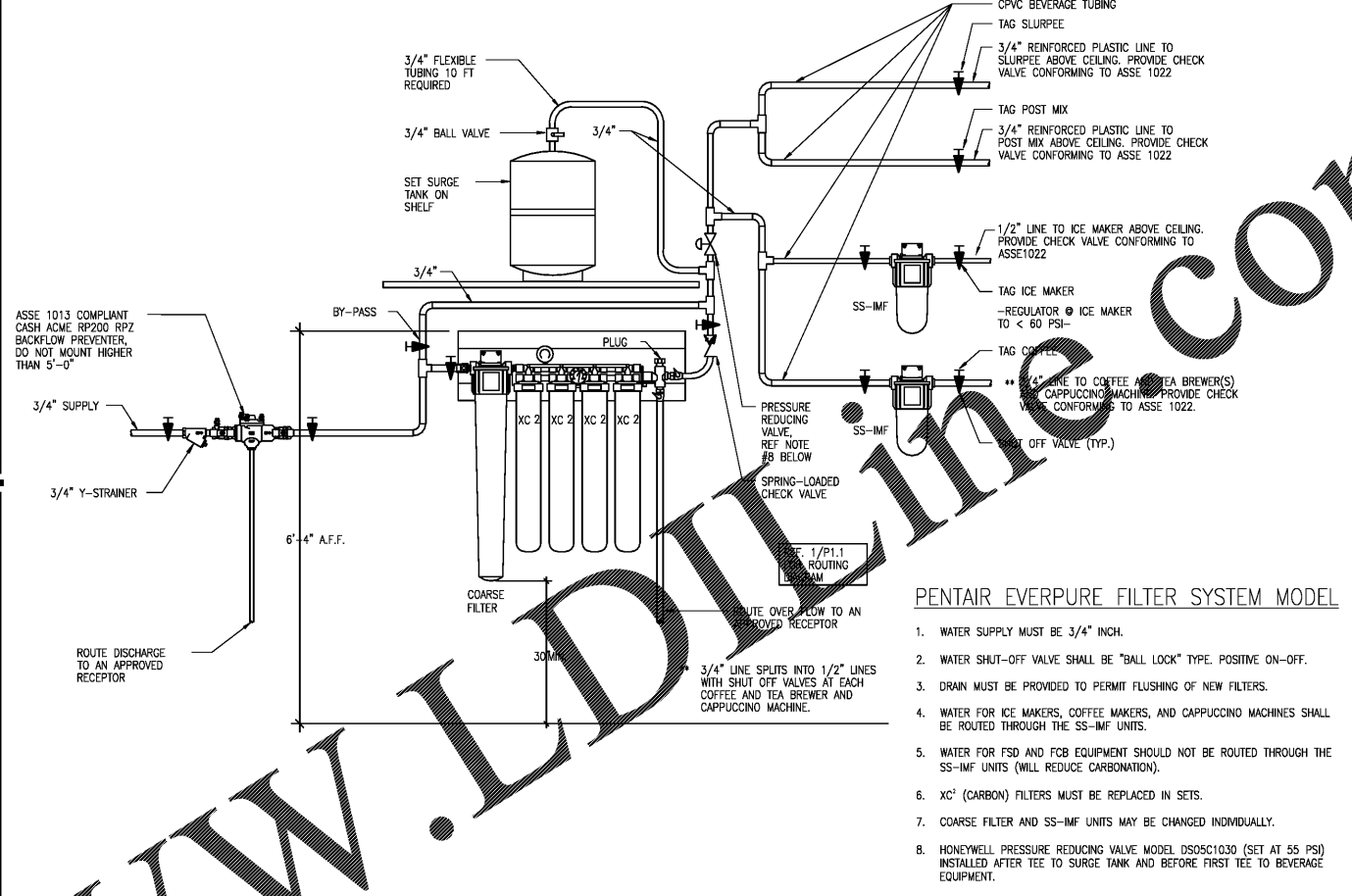
4. CUTTING AND CLEANING:

4.1 PLUMBING CONTRACTOR SHALL CLEAN ENTIRE SITE OF DEBRIS, TOOLS AND EQUIPMENT RELATED TO THIS WORK.

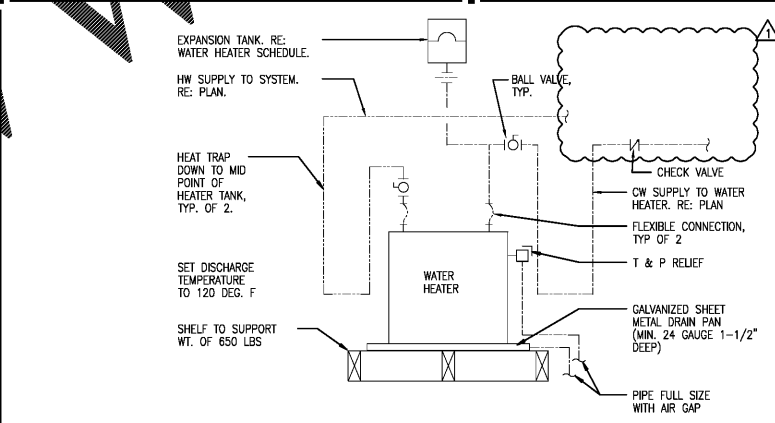
4.2 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF HIS WORK WHICH MAY BE REQUIRED TO RELIEVE THE WORK OF OTHER CONTRACTORS.

5. GUARANTEES:

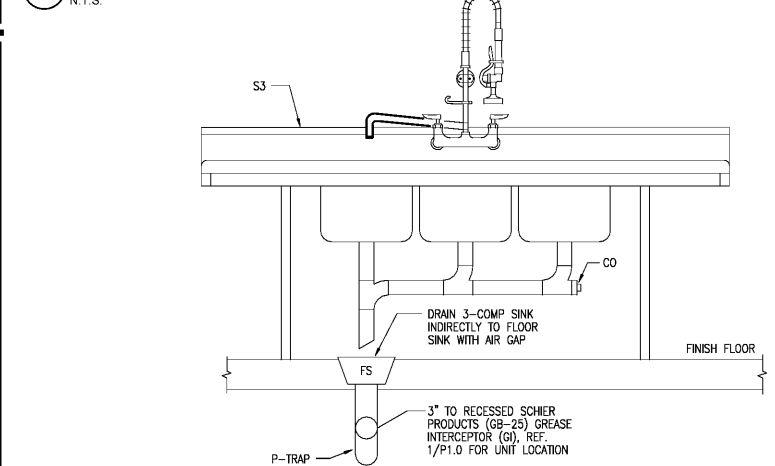
5.1 PLUMBING CONTRACTOR SHALL GUARANTEE ALL OF THE WORK AND THE COMPLETE OPERATION WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS. PLUMBING CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF HIS WORK ON THIS INSTALLATION WHICH PROVES TO BE DEFECTIVE WITHIN ONE (1) YEAR AFTER ACCEPTANCE OF THE WORK.



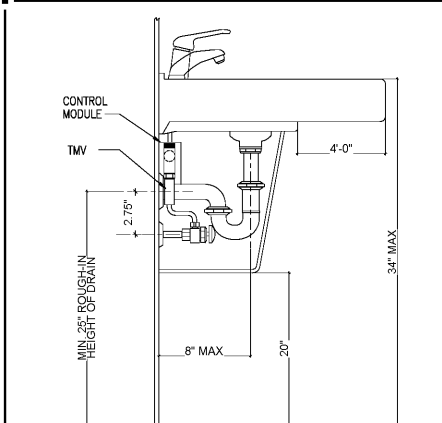
1. PENTAIR EVERPURE WATER PURIFICATION SYSTEM N.T.S.



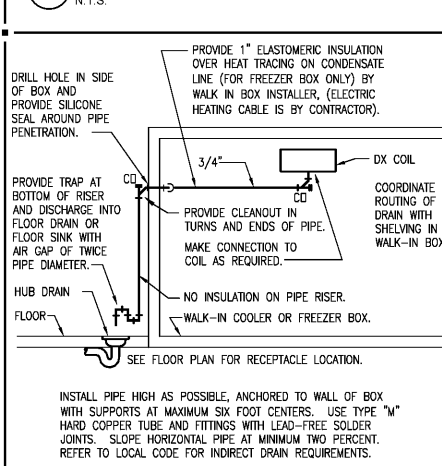
2. WATER HEATER N.T.S.



3. 3-COMPARTMENT SINK DETAIL N.T.S.



3. LAV SHROUD N.T.S.



5. CONDENSATE DRAIN DETAIL N.T.S.

PENTAIR EVERPURE FILTER SYSTEM MODEL

- 1. WATER SUPPLY MUST BE 3/4" INCH.
2. WATER SHUT-OFF VALVE SHALL BE "BALL LOCK" TYPE. POSITIVE ON-OFF.
3. DRAIN MUST BE PROVIDED TO PERMIT FLUSHING OF NEW FILTERS.
4. WATER FOR ICE MAKERS, COFFEE MAKERS, AND CAPPUCCINO MACHINES SHALL BE ROUTED THROUGH THE SS-IMF UNITS.
5. WATER FOR FSD AND FCB EQUIPMENT SHOULD NOT BE ROUTED THROUGH THE SS-IMF UNITS (WILL REDUCE CARBONATION).
6. XC2 (CARBON) FILTERS MUST BE REPLACED IN SETS.
7. COARSE FILTER AND SS-IMF UNITS MAY BE CHANGED INDIVIDUALLY.
8. HONEYWELL PRESSURE REDUCING VALVE MODEL D505C1030 (SET AT 55 PSI) INSTALLED AFTER TEE TO SURGE TANK AND BEFORE FIRST TEE TO BEVERAGE EQUIPMENT.

INTERPLANS ARCHITECTURE ENGINEERING INTERIOR DESIGN PROJECT MANAGEMENT AA 003420 CA 8660 604 COURTLAND STREET SUITE 100 ORLANDO, FLORIDA 32804 PH 407.645.5008 FX 407.629.9124

SEAL: [Blank space for seal]

1. 06.21.17 PEER REVIEW COMMENTS NO. DATE REMARKS REVISIONS

7-ELEVEN logo

BID SET JANUARY 8, 2018 7-ELEVEN STORE #32810 5544 RONALD REAGAN PARKWAY DAVENPORT, FL 33896

PROJECT NO: 2016.0305 DATE: MAY 31, 2017

P2.0 PLUMBING DETAILS & SPECIFICATION

CHECKED: PD DRAWN: MM

Order Plans @ WWW.LDLINE.COM

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