

HARRIMAN

AUBURN PORTLAND MANCHESTER

UNIVERSITY OF SOUTHERN MAINE DEPARTMENT REORGANIZATION PROJECT 2015-011

PORTLAND, MAINE

Harriman Project No. 15457

Key Plan

Proj North



True North



LEGEND

Legend table with columns for pipe types (XCW, CW, XHW, HW, XHWR, HWR, XS, S, XV, V), existing/above/below floor, and symbols for pumps, valves, cleanouts, etc.

GENERAL NOTES

- 1 DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2 VERIFY LOCATION AND DEPTH OF UTILITIES AT ALL POINTS OF CONNECTION INDICATED ON DRAWINGS BEFORE START OF PROJECT.
3 COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED. PIPING INVERTS AND SLOPE SHALL BE CLOSELY COORDINATED TO AVOID CONFLICTS WITH ALL OTHER TRADES BELOW SLAB WORK.
4 COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.
5 PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED. EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
6 REFER TO INSTALLATION SCHEDULE DATA FOR THE SIZE OF PIPING CONNECTIONS AND MOUNTING HEIGHTS OF EACH FIXTURE.
7 ALL PLUMBING FIXTURE SHUT-OFF AND/OR BALANCING VALVES INSTALLED IN PIPE CHASES SHALL BE ACCESSIBLE FROM JUST ABOVE THE CEILING LINE OR ACCESS DOORS PROVIDED LOW IN CHASE WALL.
8 SANITARY WASTE PIPING 4" & LARGER SHALL BE INSTALLED WITH A PITCH OF 1/4" PER 1'-0".
9 ALL UNDERSLAB PIPING SHALL BE INTALLED TO PROVIDE NO LESS THAN 2" OF COVER BETWEEN THE PIPING AND THE FLOOR SLAB.
10 VENT AND WATER PIPING SHALL PITCH TO DRAIN.
11 PROVIDE FIXTURE STOPS ON ANY WATER SUPPLY IMMEDIATELY ADJACENT TO PLUMBING FIXTURES.
12 CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
13 PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
14 VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
15 STORM DRAIN PIPING SHALL BE INSTALLED WITH A PITCH OF 1/8" PER 1'-0".
16 THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL AND CONNECT COMPLETELY".
17 ENTIRE PLUMBING INSTALLATION SHALL BE IN COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL CODES AND STANDARDS.
18 OSHA RULES, REGULATIONS AND REQUIREMENTS, AND ANY STATE AND LOCAL REQUIREMENTS FOR SAFETY SHALL BE FOLLOWED BY THE CONTRACTOR

2.01 MATERIALS

A. SOIL, WASTE, VENT, INDIRECT WASTE AND STORM DRAINAGE PIPING:

- 1. SCHEDULE 40 POLYVINYL CHLORIDE (PVC) WITH SOLVENT CEMENT JOINTS MAY BE USED FOR BELOW GROUND PIPING ONLY. FITTINGS SHALL BE OF THE DRAINAGE PATTERN.
2. DOUBLE BRANCH DRAINAGE CONNECTIONS 2" AND SMALLER SHALL BE MADE WITH DOUBLE WYE FITTINGS

B. COLD WATER, HOT WATER, HOT WATER RETURN PIPING. SHALL BE TYPE "L" HARD-DRAWN COPPER TUBING WITH WROUGHT COPPER, SOLDER-TYPE FITTINGS AND CONNECTIONS. IMMEDIATE EXPOSED PIPING AT FIXTURES SHALL BE IFS COPPER, CAST BRASS THREADED FITTINGS, ALL FINISHED AND CHROME-PLATED, UNLESS OTHERWISE NOTED.

C. VALVES AND FITTINGS: PROVIDE BALL VALVES FOR COMPLETE OPERATION AND DRAINAGE. PROVIDE ACCESSIBLE SECTIONALIZING VALVES WHERE WATER BRANCHES CONNECT TO MAINS. PROVIDE DRAIN VALVES AT THE LOW POINTS.

D. HANGERS: ALL HANGERS SHALL BE OF THE ADJUSTABLE CLEVIS TYPE WITH SHIELDS FOR PLASTIC PIPING AND ALL INSULATED PIPING. VERTICAL PIPE CLAMPS FOR COPPER PIPING SHALL BE COPPER, BRONZE OR BRONZE PLATED CONSTRUCTION. ALL OTHER VERTICAL CLAMPS AND ALL HORIZONTAL PIPE HANGERS SHALL BE ALL STEEL CONSTRUCTION.

E. INSULATION:

- 1. PROVIDE 1" THICK FIBERGLASS INSULATION FOR ALL COLD WATER, HOT WATER, HOT WATER RETURN PIPING.

H. FIRE STOP SEALANT:

- 1. UNINSULATED PIPING PENETRATIONS: THE ANNULAR SPACE SHALL BE COMPLETELY FILLED WITH NON-COMBUSTIBLE, NON-EXPANDING CEMENTITIOUS MORTAR. SUFFICIENT MATERIAL SHALL BE USED TO ACHIEVE A FIRE BARRIER EQUAL TO OR GREATER THAN THAT OF THE SEPARATION BEING PROTECTED. THE INSTALLATION SHALL BE IN COMPLETE ACCORDANCE WITH ALL OF THE MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.
2. INSULATED PIPING AND MULTIPLE PIPE PENETRATIONS: PROVIDE ONE LAYER OF "WRAP STRIP" A NON-COMBUSTIBLE, FLEXIBLE, HIGH EXPANSION MATERIAL, ON EACH INSULATED PIPE. THEN, THE REMAINING ANNULAR SPACE SHALL BE COMPLETELY FILLED WITH NON-EXPANDING CEMENTITIOUS MORTAR. SUFFICIENT QUANTITIES OF EACH MATERIAL SHALL BE USED TO ACHIEVE A COMPOSITE FIRE BARRIER EQUAL TO OR GREATER THAN THAT OF THE SEPARATION BEING PROTECTED. THE INSTALLATION SHALL BE IN COMPLETE ACCORDANCE WITH ALL OF THE MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.

3.01 ERECTION, INSTALLATION AND APPLICATION

A. ALL WATER PIPING SHALL BE RUN AT A MINIMUM PITCH OF 1" PER 50'-0" TO DRAIN VALVES, AND ALL PIPING SHALL BE RUN WITHIN THE HEATED SPACE OF THE BUILDING.

B. ALL VENT PIPING SHALL BE RUN AT A POSITIVE PITCH TO DRAIN BACK TO THE DRAINAGE CONNECTIONS.

C. DRAINAGE PIPING SHALL BE RUN AT 1/4" PER FOOT (TWO PERCENT) PITCH.

D. ALL FLOOR SINKS AND FLOOR CLEANOUTS SHALL BE SET PARALLEL TO AND FLUSH WITH THE SURROUNDING FLOOR.

E. ALL FIXTURES SHALL BE INSTALLED LEVEL AND FLUSH TO WALLS AND FLOORS AS APPLICABLE.

F. ALL FIXTURES SHALL BE SEALED WATER TIGHT WITH CAULK TO ALL ADJACENT SURFACES. CAULKING SHALL BE OF THE APPROPRIATE TYPE FOR THE GIVEN APPLICATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.

G. THE ENTIRE PLUMBING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF MAINE INTERNAL PLUMBING RULES, AND ALL LOCAL CODES.

H. THE SPRINKLER WORK SHALL BE IN ACCORDANCE WITH NFPA PAMPHLET #13.

3.02 TESTS

A. TEST AND PROVE TIGHT ALL PIPING SYSTEMS IN THE BUILDING IN ACCORDANCE WITH THE STATE OF MAINE INTERNAL PLUMBING RULES PROCEDURES. WATER PIPING SHALL BE TESTED AT 125 PSIG.

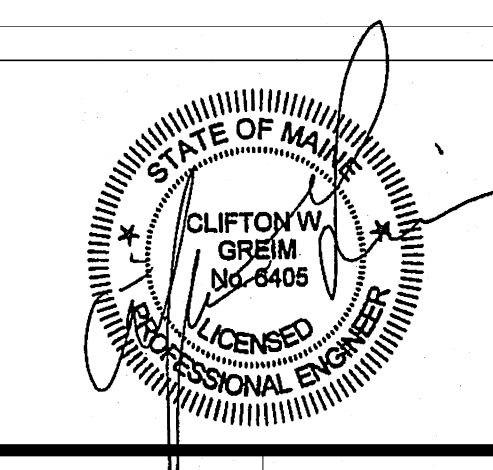
PLUMBING FIXTURE INSTALLATION SCHEDULE

FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR

Table with columns: TAG, DESCRIPTION, BRANCH SIZE (VENT, WASTE, HW, CW), FIXTURE SPECIFICATIONS, SUPPLY FITTING SPECIFICATIONS, MOUNTING HEIGHT. Includes rows for SK-1 (SINK), P-1 (PUMP), and FS-1 (FLOOR SINK).

Issues and Revisions

Table with columns: Mark, Date, Description. Shows revisions for 100% REVIEW, OWNER REVIEW, and ISSUED FOR BID.



Drawing Scales: NO SCALE

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LEGEND SCHEDULES, GENERAL NOTES AND SPECIFICATIONS

P00.1