

DIVISION 22 PLUMBING

00 72 00 GENERAL CONDITIONS

A. SEE SHEET T2.0.

01 11 00 GENERAL REQUIREMENTS

- A. SEE SHEET T2.0.
B. SUBSTITUTIONS
1. CONTRACTOR SHALL PROVIDE ALL SUPPORTING DATA AND ASSUME THE BURDEN OF PROOF THAT ANY SUBSTITUTE IS EQUIVALENT AS TO APPEARANCE, CONSTRUCTION, CAPACITY, AND PERFORMANCE.

09 91 00 FINISH AND PAINTING

- A. PREPARE EXPOSED PIPE, FITTINGS, SUPPORTS, AND ACCESSORIES FOR FINISH PAINTING IN ROOMS THAT WILL HAVE CEILING AND STRUCTURE PAINTED.
B. COORDINATE WORK WITH THE PAINTERS SO THAT ALL EQUIPMENT IS INSTALLED PRIOR TO PAINTING.

22 05 00 BASIC PLUMBING REQUIREMENTS

- A. PLUMBING CONTRACTOR SHALL VERIFY REQUIREMENTS FOR TEMPORARY WATER WITH GENERAL CONTRACTOR AND INCLUDE IN HIS SCOPE OF WORK WHEN DIRECTED BY G.C.
B. DETAILS AND SCHEDULES ARE SHOWN TO AID THE CONTRACTOR AND ARE NOT MEANT TO BE INCLUSIVE OF ALL DEVICES.
C. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS.

22 05 19 METERS AND GAUGES

- A. PREPARE GAUGES AND THERMOMETERS
1. MANUFACTURERS: TRERICE, M.S. GAUGE, ASHCROFT, MARSH, WEISS, WEKSLER.
2. PREPARE GAUGES
a. GENERAL PURPOSE: TRERICE 600CB CAST ALUMINUM CASE, PHOSPHOR BRONZE BUSH, 1/2" BORE, 1/2" DIAMETER, TRERICE 865/866-1 GAUGE COCK AND TRERICE 870-1 PRESSURE DAMPER.

- a. COLD WATER: 0-100 PSIG/ 1 PSIG; 0-100 DEG F/ 1 DEG F
b. HOT WATER: 0-100 PSIG/ 1 PSIG; 0-160 DEG F/ 2 DEG F.
5. EXTEND NIPPLES TO ALLOW INSULATION CLEARANCE.
6. INSTALL WHERE READ FROM NORMAL OPERATING LEVEL.
7. CALIBRATE FOR ACCURACY.

22 05 29 PIPE AND EQUIPMENT HANGERS AND SUPPORTS

- A. MANUFACTURERS: B-LINE, EMPIRE INDUSTRIES, GLOBAL PIPE HANGER PRODUCTS, GRINNELL, NATIONAL PIPE HANGER, UNI STRUT.
B. PROVIDE SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION WHERE REQUIRED.
C. ANGLES, CHANNELS, AND BEAMS: ASTM A36 AND A572 AS REQUIRED.
D. HANGERS SHALL NOT BE ATTACHED TO JOIST BRIDGING.

22 05 53 MECHANICAL IDENTIFICATION

- A. NAMEPLATES
1. MANUFACTURERS: MARKING SERVICES, BRADY B-1, AND SETON SETONFLEX.
2. 3/4" HIGH, 1/16" THICK PLASTIC WITH ENGRAVED WHITE LETTERS ON BLACK BACKGROUND COLOR, SCREW OR ADHESIVE MOUNTING.
3. PROVIDE AT CONTROL PANELS AND STARTERS.
B. VALVE TAGS
1. MANUFACTURERS: MARKING SERVICES, W.H. BRADY, AND SETON NAME PLATE COMPANY.

22 07 00 INSULATION

- A. GENERAL
1. SEE INSULATION SCHEDULES ON PLANS FOR ADDITIONAL INFORMATION.
2. INSULATION IN INSULATION SYSTEMS AND JACKETS SHALL MEET UL-723/ASTM E84 REQUIREMENTS OF MAX. FIRE HAZARD CLASSIFICATION OF 25, AND MAX. FLAME SPREAD, INDEX CONTRIBUTED, AND SMOKE DEVELOPED OF 50 WHEN INSTALLED IN RETURN AIR SYSTEMS.
3. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND MICA PUBLICATION "COMMERCIAL AND INDUSTRIAL STANDARDS", 2011 SEVENTH EDITION.

- g. MAX. FIRE/SMOKE DEVELOPED OF 25/50 PER ASTM E84 FOR UP TO 2" THICK.
h. PROVIDE MANUFACTURER PREFORMED INSULATION OVER VALVES AND FITTINGS.
i. FIELD CUTTING AND GLUING LONGITUDINAL JOINT NOT PERMITTED.
D. PIPE INSULATION REQUIREMENTS
1. INSULATE ENTIRE PIPING SYSTEM INCLUDING VALVES AND FITTINGS PER MICA INSULATION STANDARDS PLATES 10 THRU 18.
2. SEAL ALL INSULATION ENDS.

22 10 00 EXCAVATION AND BACKFILL

- A. P.C. SHALL EXCAVATE AND BACKFILL TRENCHES FOR PLUMBING WORK.
B. MAINTAIN, PROTECT, AND TEMPORARILY SUPPORT ABOVE AND BELOW GRADE UTILITIES WHICH ARE TO REMAIN.
C. PROVIDE AND MAINTAIN ALL FENCING, BARRICADES, SIGNS, WARNING LIGHTS, AND/OR OTHER EQUIPMENT NECESSARY TO KEEP ALL EXCAVATION PITS AND TRENCHES AND THE ENTIRE SUBGRADE AREA SAFE UNDER ALL CIRCUMSTANCES AND AT ALL TIMES.
D. ELEVATIONS SHOWN ON THE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE NECESSARY TO FIT FIELD CONDITIONS.

22 11 00 WATER PIPING AND VALVES

- A. PIPING
1. SEE PIPING SCHEDULES ON PLANS FOR ADDITIONAL INFORMATION.
2. FIELD VERIFY AND MARK SEWER ELEVATIONS AND SIZES BEFORE BEGINNING BUILDING.
3. DRAWINGS AND DIAGRAMS SHOW SIZE AND APPROXIMATE LOCATION OF PIPING.
4. NEAR LOCATIONS WHERE PIPES PENETRATE WALLS, FLOORS OR CEILINGS.
5. AT EACH MAIN SERVICE POINT.
B. WATER PIPING BALANCING
1. VERIFY THAT SUFFICIENT WATER FLOW, PRESSURE AND TEMPERATURE ARE AVAILABLE AT EACH OUTLET AND EQUIPMENT CONNECTION.
2. BALANCE CIRCULATING HOT WATER SYSTEM TO ENSURE PROPER CIRCULATION OF HOT WATER IN THE SYSTEM WITH HOT WATER AVAILABLE TO ALL FIXTURES AND CONNECTIONS.

LEGEND

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

Table with 3 columns: SYM, ABBR, IDENTIFICATION. Lists symbols for CW (Cold Water Piping), HW (Hot Water Piping), HWR (Hot Water Return Piping), NP (Non-Potable Water Piping), SOFT (Soft Water Piping), SA (Sanitary Sewer Piping), ST (Storm Piping), OF (Overflow Conductor Piping), V (Vent Piping), VTR (Vent Thru Roof), G (Gas Piping), A (Air Piping), V (Vacuum Piping), CLEAN OUT, WCO (Wall Clean Out), FCO (Floor Clean Out/Flush), BFP (Backflow Preventer), PRV (Pressure Reducing Valve), SHUTOFF VALVE, BALANCE VALVE, CHECK VALVE, WHA (Water Hammer Arrestor), TEST CONNECTION, PIPING CAP, UNION, THERMOMETER, PRESSURE GAUGE, HOSE BIBB, ROOF DRAIN, OVERFLOW DRAIN, FLOOR DRAIN, SITE DRAIN, HUB DRAIN, FIXTURE UNDER WATER SUPPLY OR WASTE, INVERT ELEVATION, ELEVATION, ROUGH IN, REMOVE EXISTING, ABOVE FINISHED FLOOR, HEATING CONTRACTOR, ELECTRICAL CONTRACTOR, FIRE PROTECTION CONTRACTOR, GENERAL CONTRACTOR, PLUMBING CONTRACTOR, NOT IN CONTRACT, BETWEEN JOISTS, THRU JOISTS, TIGHT TO STRUCTURE, TYP. TYPICAL.

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PROJECT INFORMATION

PROJECT NUMBER 1823380

TENANT BUILD-OUT FOR: ASPEN DENTAL, 4011 WARDS ROAD • LYNCHBURG, VA 24502. Includes a professional seal area.

SHEET DATES

ISSUE DATE MAY 31, 2018

Table with 2 columns: REVISIONS, Description of revisions.

SHEET INFORMATION

LEGEND & SPECIFICATIONS

SHEET NUMBER

P0.1