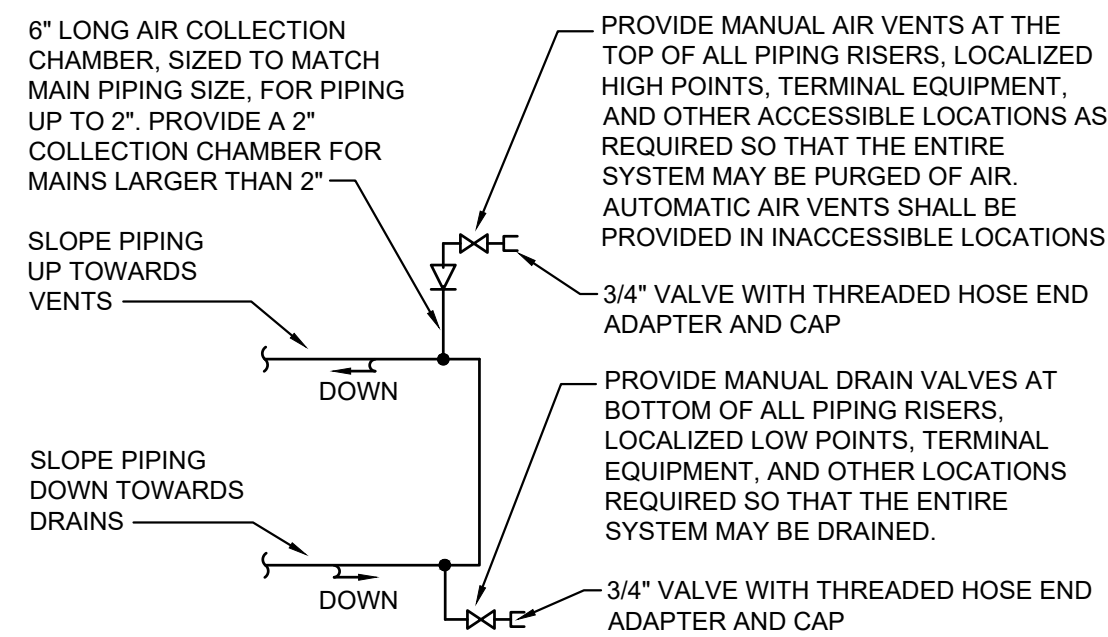
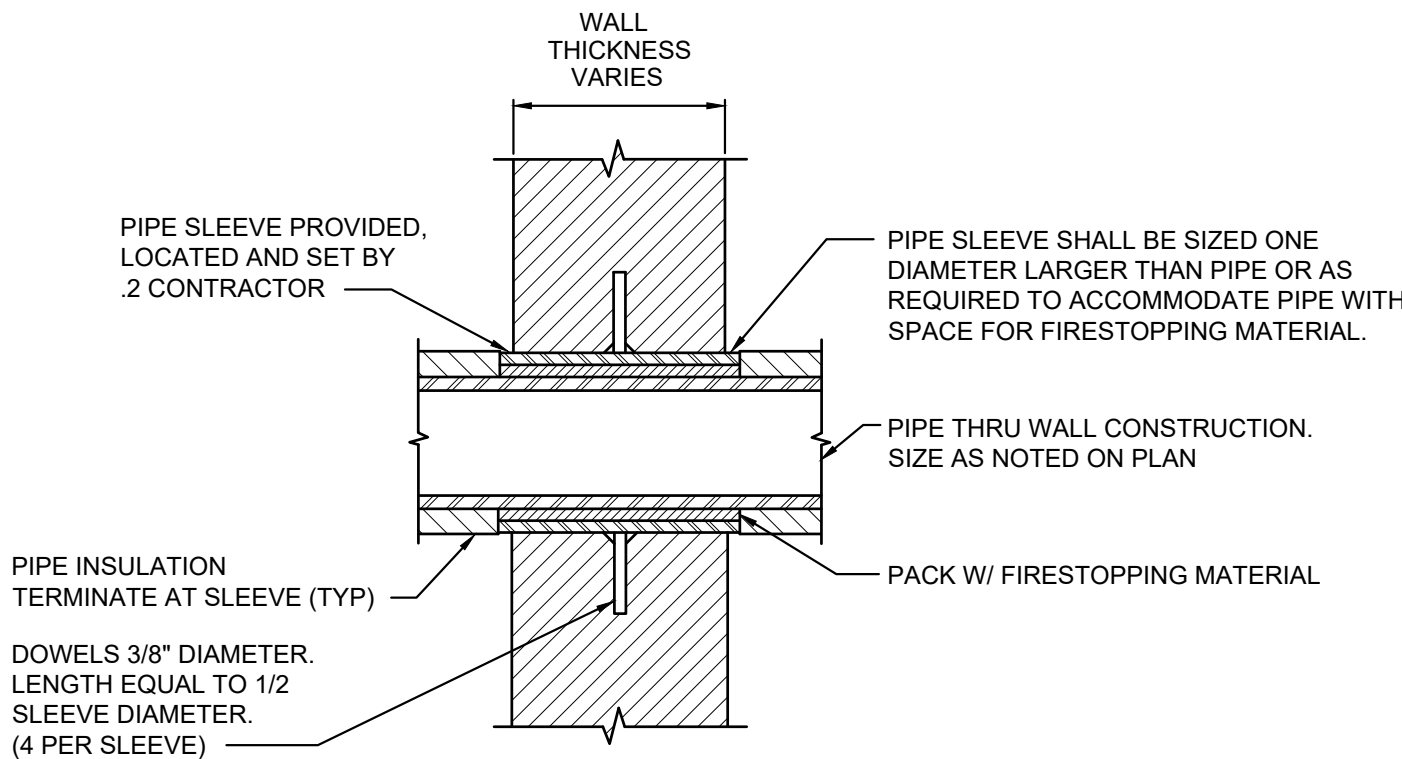


**1 AUTOMATIC AIR VENT**  
NOT TO SCALE

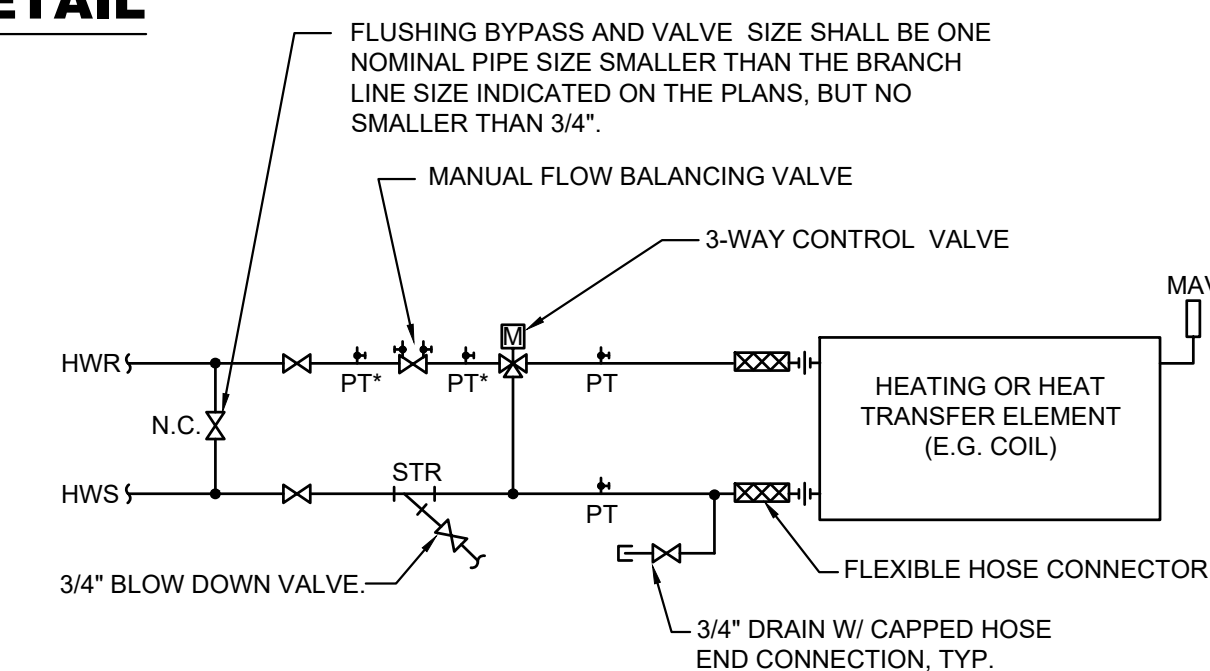


**6 HYDRONIC SYSTEM DRAIN AND MANUAL AIR VENT DETAIL**  
NOT TO SCALE



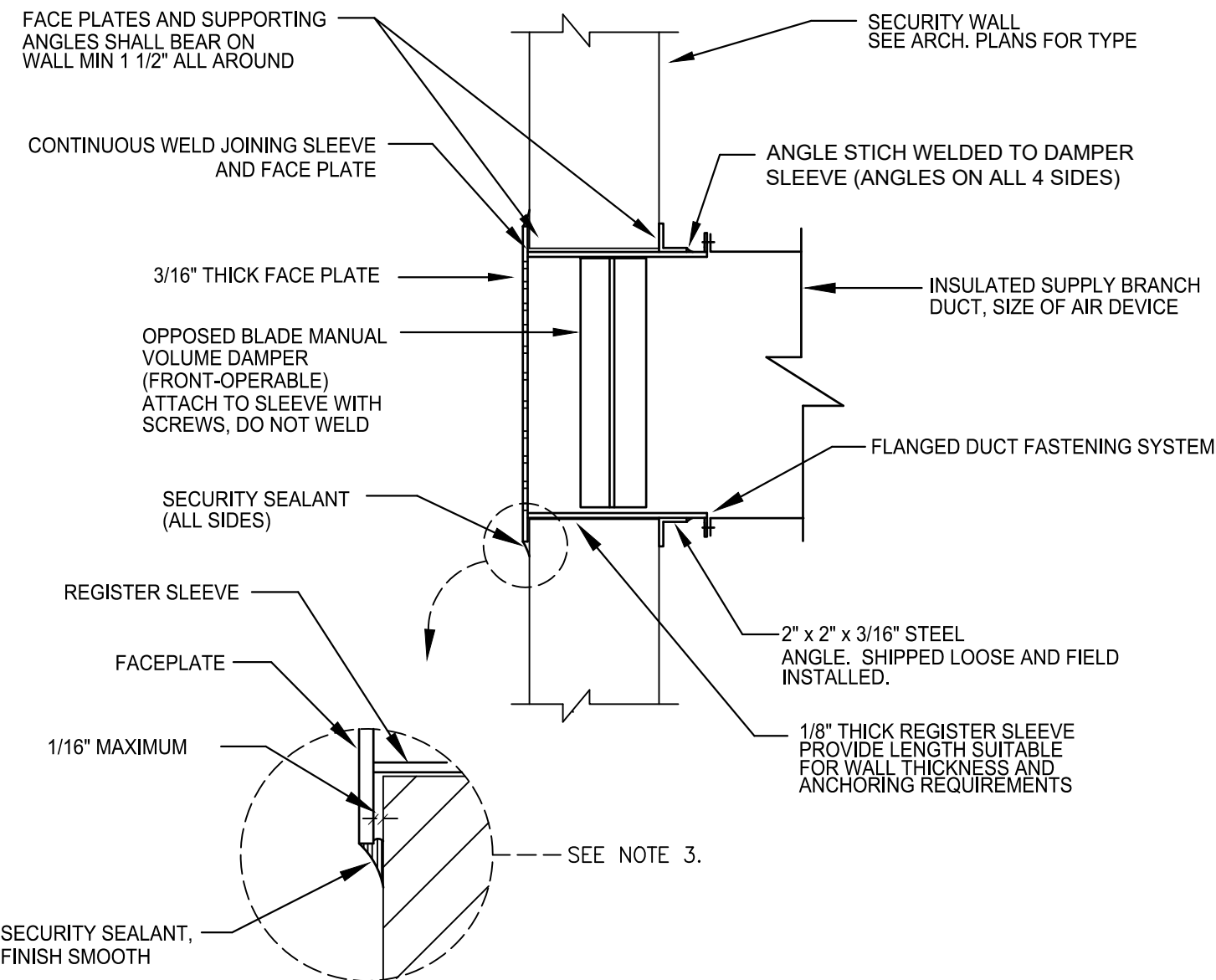
NOTE: COMPLY WITH UL FIRESTOP REQUIREMENTS WHERE APPLICABLE.

**7 PIPE WALL SLEEVE DETAIL**  
NOT TO SCALE



- NOTES:
- CONTROL VALVE SHALL BE PROVIDED WITH FLANGED ENDS OR SHALL BE PROVIDED WITH ADJACENT UNIONS TO FACILITATE REMOVAL.
  - FLEXIBLE HOSE CONNECTORS SHALL BE OMITTED IF THE TERMINAL EQUIPMENT DOES NOT HAVE A FAN.
  - PROVIDE 3-WAY CONTROL VALVE ON ALL HEATING COILS AND FINNED TUBE.

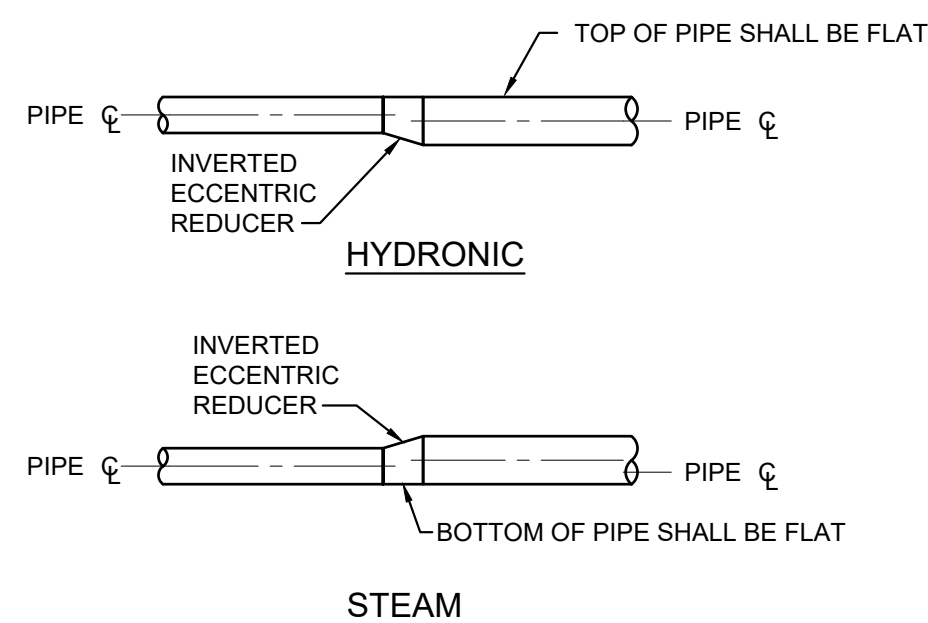
**10 HOT WATER PIPING W/ 3-WAY CONTROL VALVE DETAIL**  
NOT TO SCALE



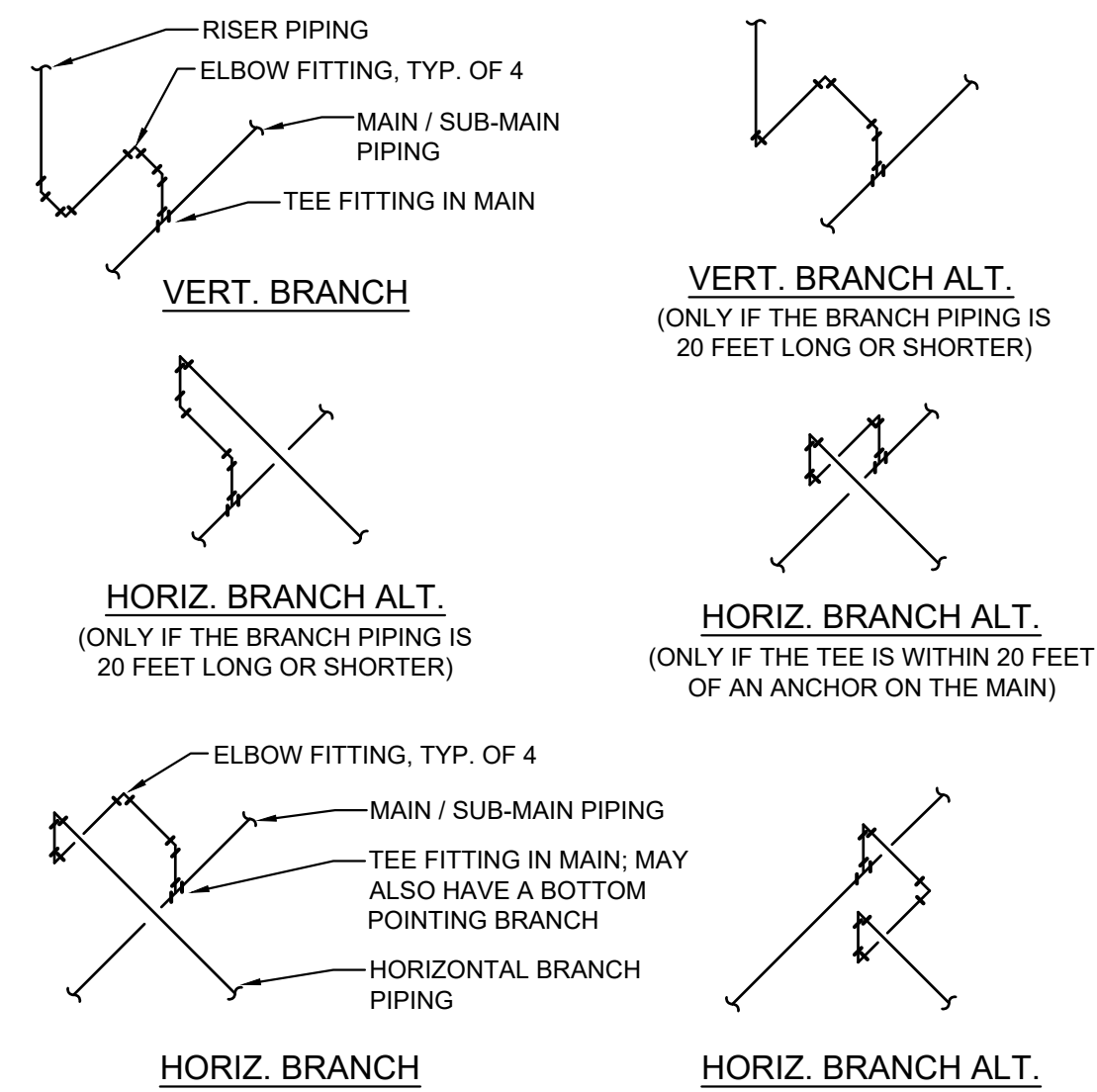
NOTES:

- REGISTER FACEPLATE, REGISTER SLEEVE, AND SECURING ANGLES SHALL BE FABRICATED OF 1018 STEEL OR EQUAL.
- REGISTER FACEPLATE SHALL HAVE 1/4\"/>
- NO OPEN GAP SHALL EXIST BETWEEN THE REGISTER FACEPLATE AND THE SECURITY ASSEMBLY. SECURITY SEALANT SHALL NOT BE USED TO FILL IN A GAP WIDER THAN 1/16\"/>

**2 DUCTED SECURITY REGISTER**  
NOT TO SCALE



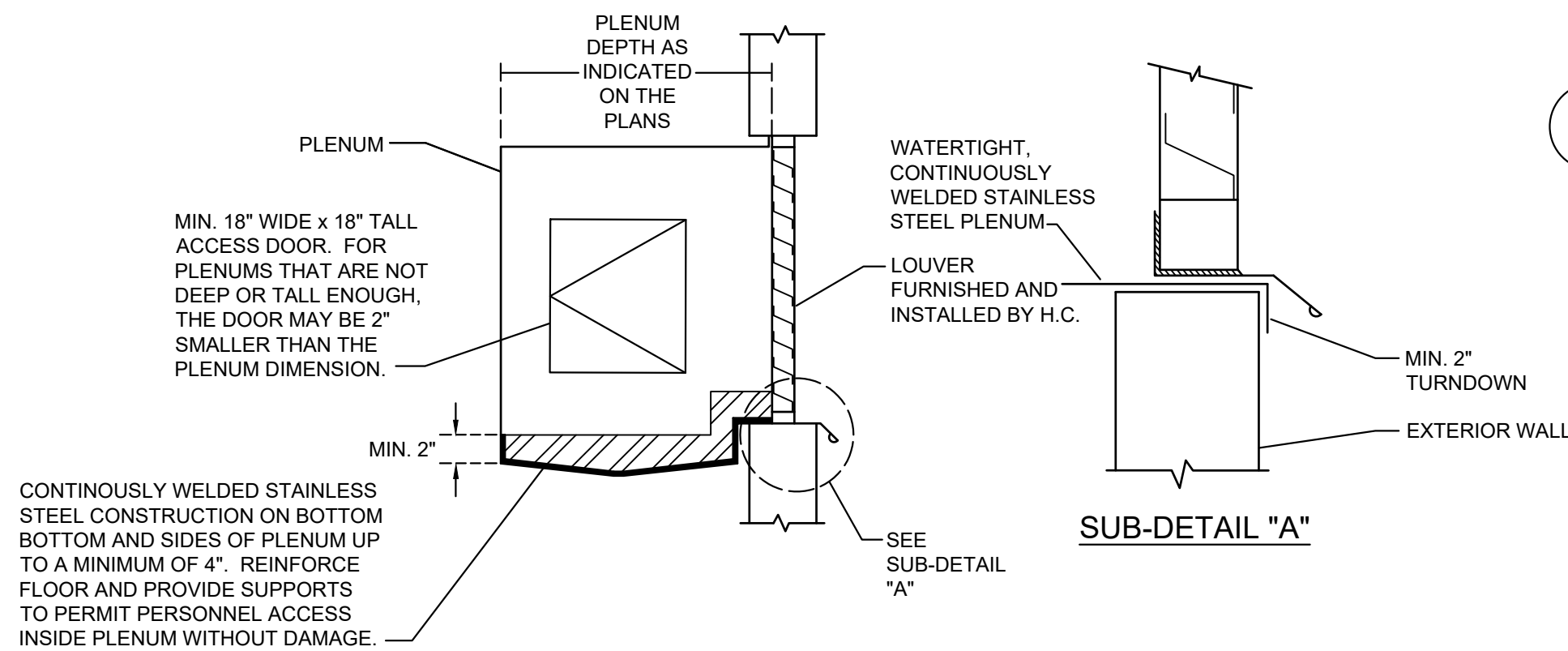
**8 TYPICAL PIPE SIZE CHANGE DETAIL**  
NOT TO SCALE



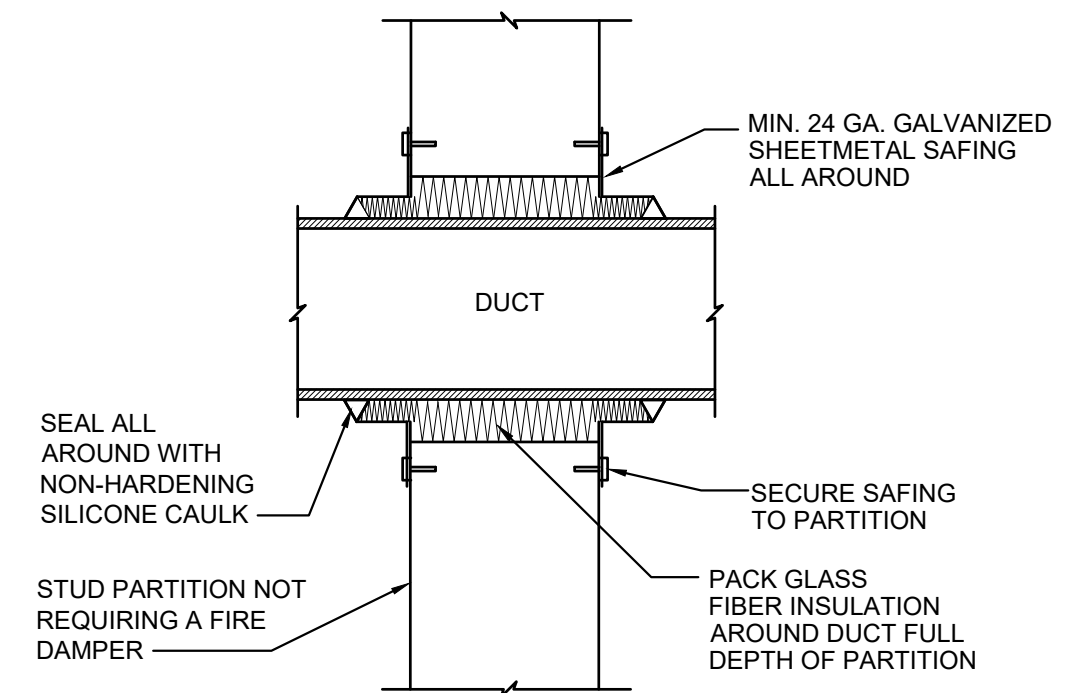
NOTES:

- SWING CONNECTIONS ARE NOT INDICATED ON THE PIPING FLOOR PLANS FOR CLARITY PURPOSES ONLY. ALL BRANCH PIPING CONNECTIONS TO MAIN PIPING ON HOT WATER AND STEAM AND STEAM CONDENSATE PIPING SHALL BE MADE WITH SWING JOINTS AS DETAILED HEREIN USING FOUR (4) ELBOWS AND THE TEE IN THE MAIN.
- THE ELBOWS AND TEE FITTINGS COMPRISING THE SWING CONNECTIONS SHALL UTILIZE A JOINING METHOD THAT IS SPECIFIED IN THE PROJECT MANUAL WHICH PERMITS ROTATION OF THE PIPING IN THE FITTING ABOUT THE PIPE'S LONGITUDINAL AXIS OR ANGULAR DEFLECTION. FLANGED, WELDED, AND/OR SOLDERED CONNECTIONS SHALL NOT BE USED ON THE FIVE FITTINGS INDICATED IN THIS DETAIL UNLESS THESE ARE THE ONLY JOINING METHODS SPECIFIED.
- SWING CONNECTIONS ARE NOT REQUIRED IF THE BRANCH PIPING IS SHORTER THAN 20 FEET AND THE TEE FITTING ON THE MAIN IS WITHIN 20 FEET OF AN ANCHOR ON THE MAIN.

**3 SWING JOINT BRANCH PIPING CONNECTION DETAILS**  
NOT TO SCALE

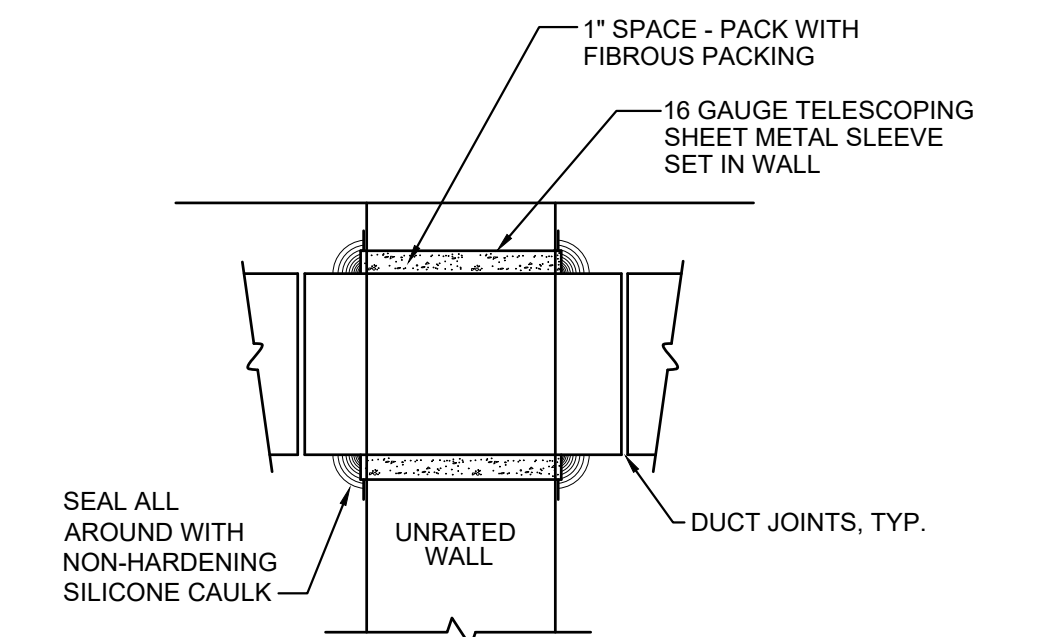


**9 LOUVER AND PLENUM DETAIL**  
NOT TO SCALE



NOTE: THID DETAIL DOES NOT APPLY TO FIRE OR SMOKE RATED WALLS

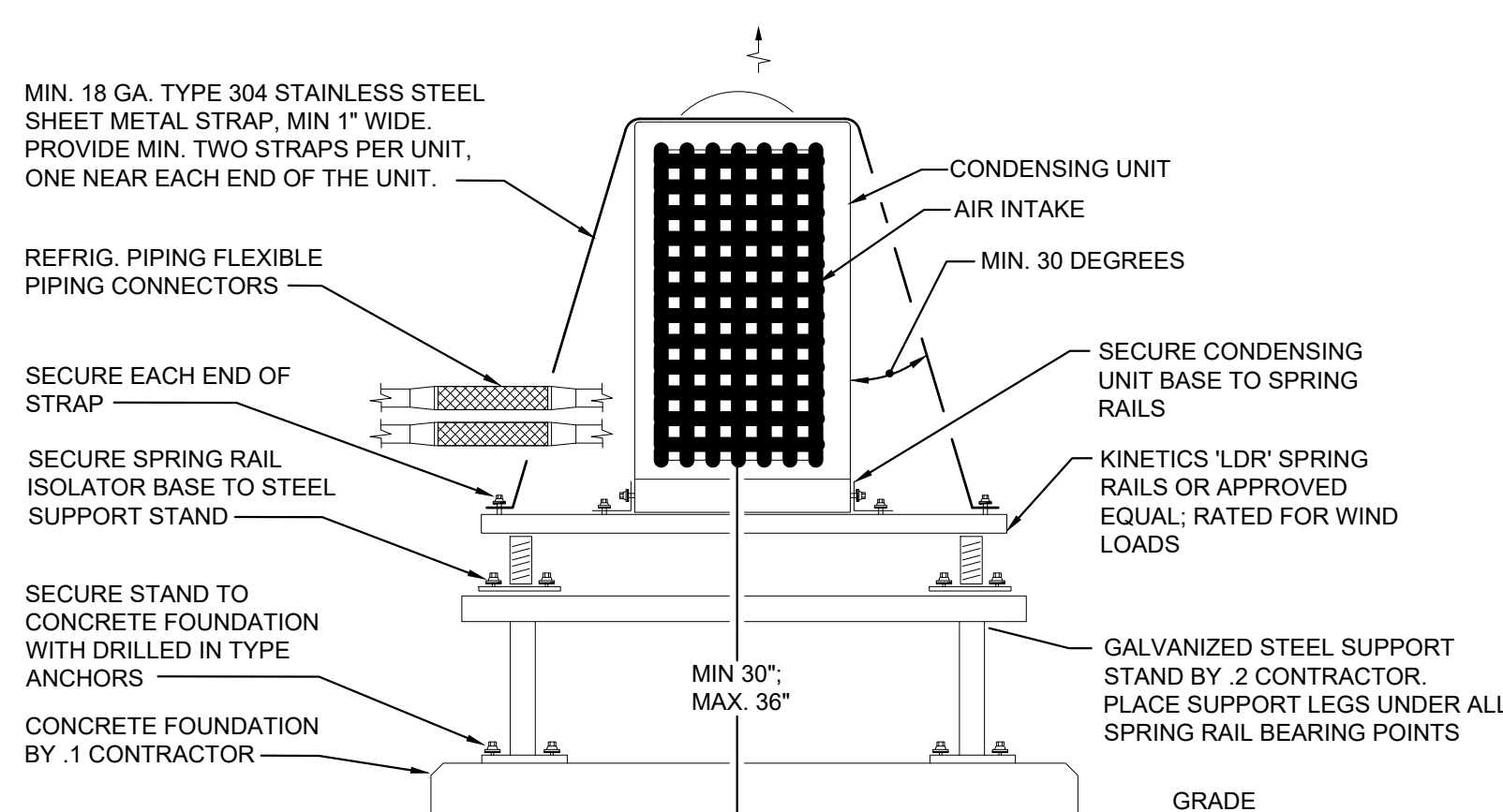
**4 INTERIOR GYPSUM BOARD WALL DUCT PENETRATION DETAIL**  
NOT TO SCALE



NOTE: THID DETAIL DOES NOT APPLY TO FIRE OR SMOKE RATED WALLS

**5 INTERIOR MASONRY WALL DUCT PENETRATION DETAIL**  
NOT TO SCALE

RECORD REVISIONS			
<div><div><div><div><div><div><span></span></div><div><span></span></div></div></div><div><div><div><span></span></div><div><span></span></div></div></div><div><div><div><span></span></div><div><span></span></div></div></div><div><div><div><span></span></div><div><span></span></div></div></div><div><div><div><span></span></div><div><span></span></div></div></div></div></div><div><div>COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WILLIAM ANDREW MINAHAN ENGINEER PEN043434 6/26/2023</div><div>PROFESSIONAL'S SIGNATURE    DATE</div></div></div>			
<div><div><div><div>UpStreet ARCHITECTS, INC.</div><div>541 PHILADELPHIA ST. INDIANA, PA 15701</div><div>911 MENOHER BLVD. JOHNSTOWN, PA 15905</div></div></div></div>			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA			
D.G.S. PROJECT No: <b>C-0588-0015 PHASE 1</b>			
LOYSVILLE YOUTH DEVELOPMENT CENTER- RENOVATIONS TO ZIMMERMAN- BINGAMAN (ZB) COTTAGE DEPARTMENT OF HUMAN SERVICES LOYSVILLE, TYRONE TOWNSHIP, PERRY COUNTY, PA			
DETAILS - MECHANICAL			
<b>VERIFY SCALE</b>  BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: <div><div>0</div><div>1</div></div> IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY W. MINAHAN  CHECKED BY T. HOVAN	DATE 27 JUNE 2023  SCALE AS NOTED
	SHEET No. <b>M-601</b>		



NOTE:

- STRAP MATERIAL THICKNESS, GAUGE, WIDTH, FASTENERS, AND SUPPORT STAND DESIGN SHALL BE SIZED AS PART OF THE DELEGATED WIND RESTRAINT DESIGN SPECIFIED IN SECTION 230529. VALUES NOTED HEREIN ARE MINIMUMS.
- ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- REQUIRED PROTECTION HOODS AND WIND BAFFLES ARE NOT SHOWN FOR CLARITY PURPOSES ONLY.

**11 AT-GRADE CONDENSING UNIT SUPPORT DETAIL**  
NOT TO SCALE