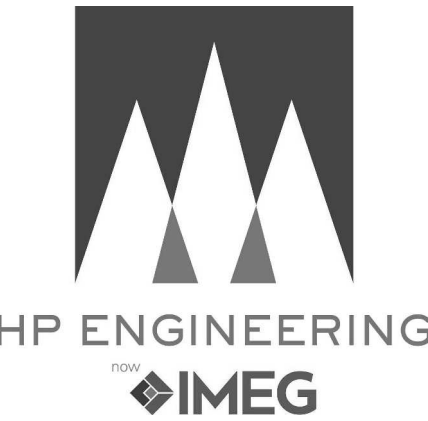


issue for review:			2026.08.05
issue for pricing:			2026.09.11
issue for construction:			
revisions:			
mark	date	description	

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REFER TO SHEETS G020 - G033 FOR ALL
GENERAL NOTES RELATIVE TO THE SCOPE OF
WORK AND TYPE OF DRAWINGS, DIMENSIONS,
AND INSTRUCTIONS FOUND ON THIS SHEET.

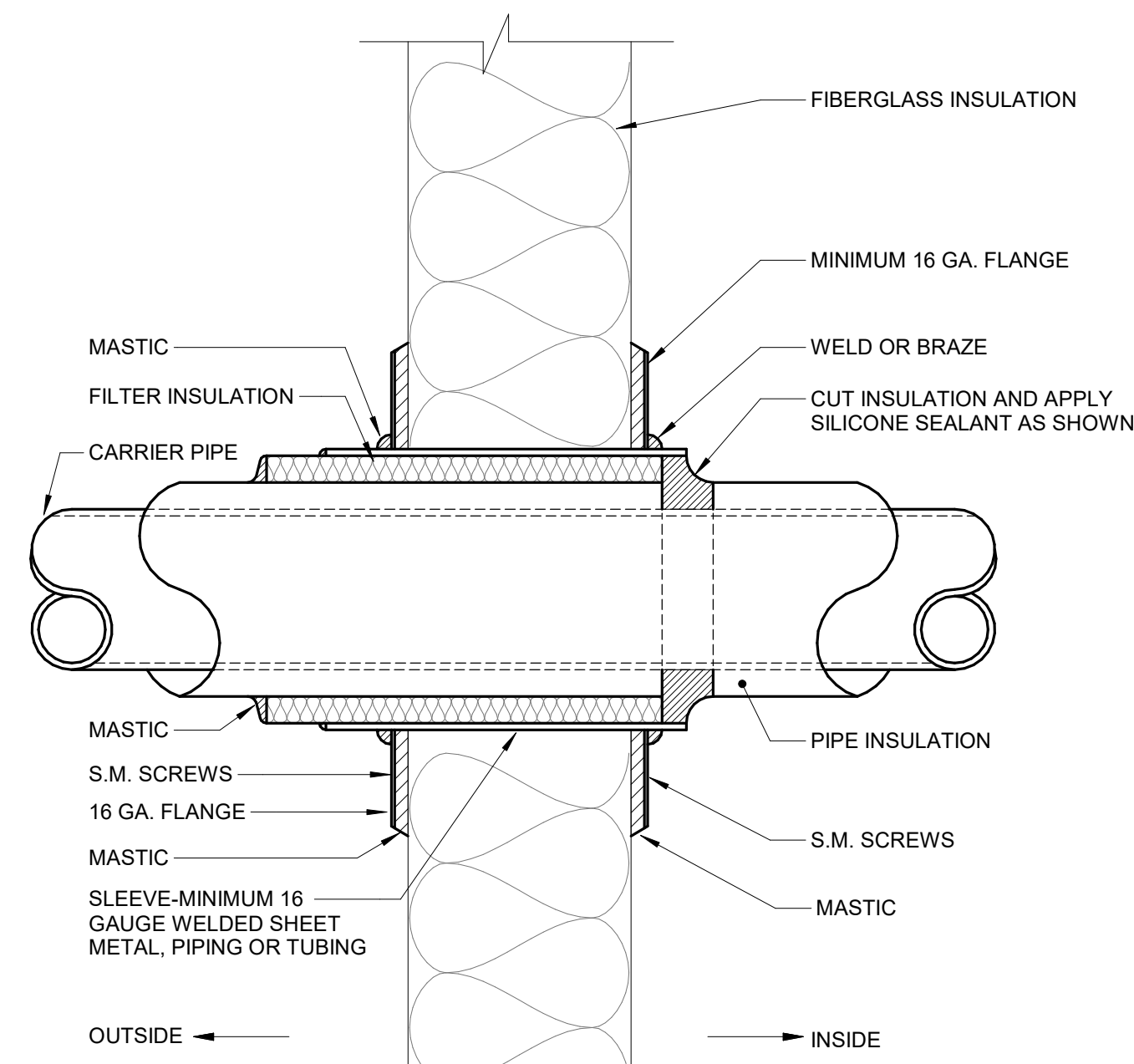
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CONTRACT DOCUMENTS INCLUDING SHEETS,
DRAWINGS, GENERAL NOTES, SPECIFICATIONS,
ETC. AS PROVIDED BY THE ARCHITECT OR ANY
OTHER CONSULTANT.

contents:
HVAC DETAILS

design: CD
date: 2026.09.11
project: 25.18

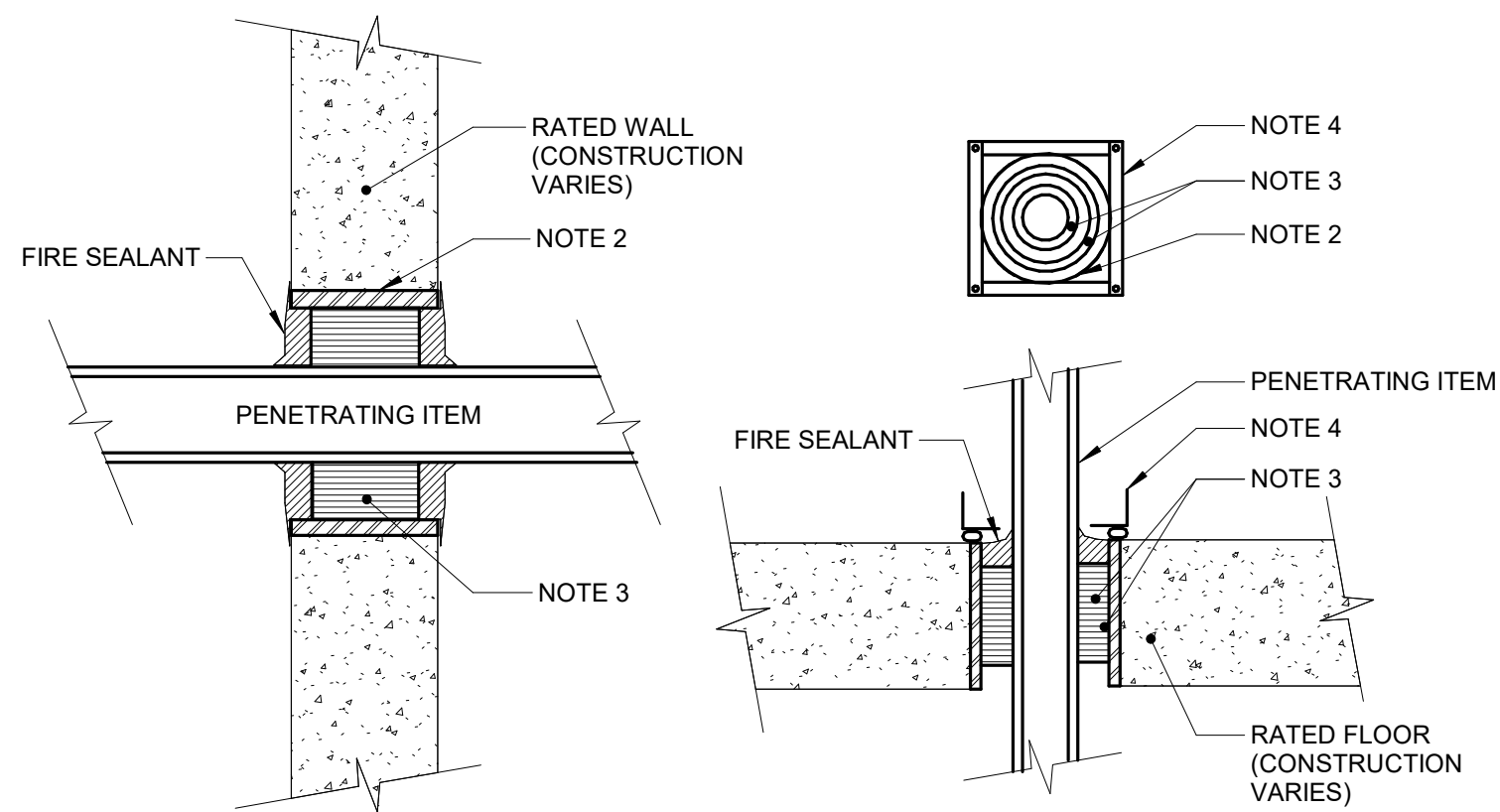
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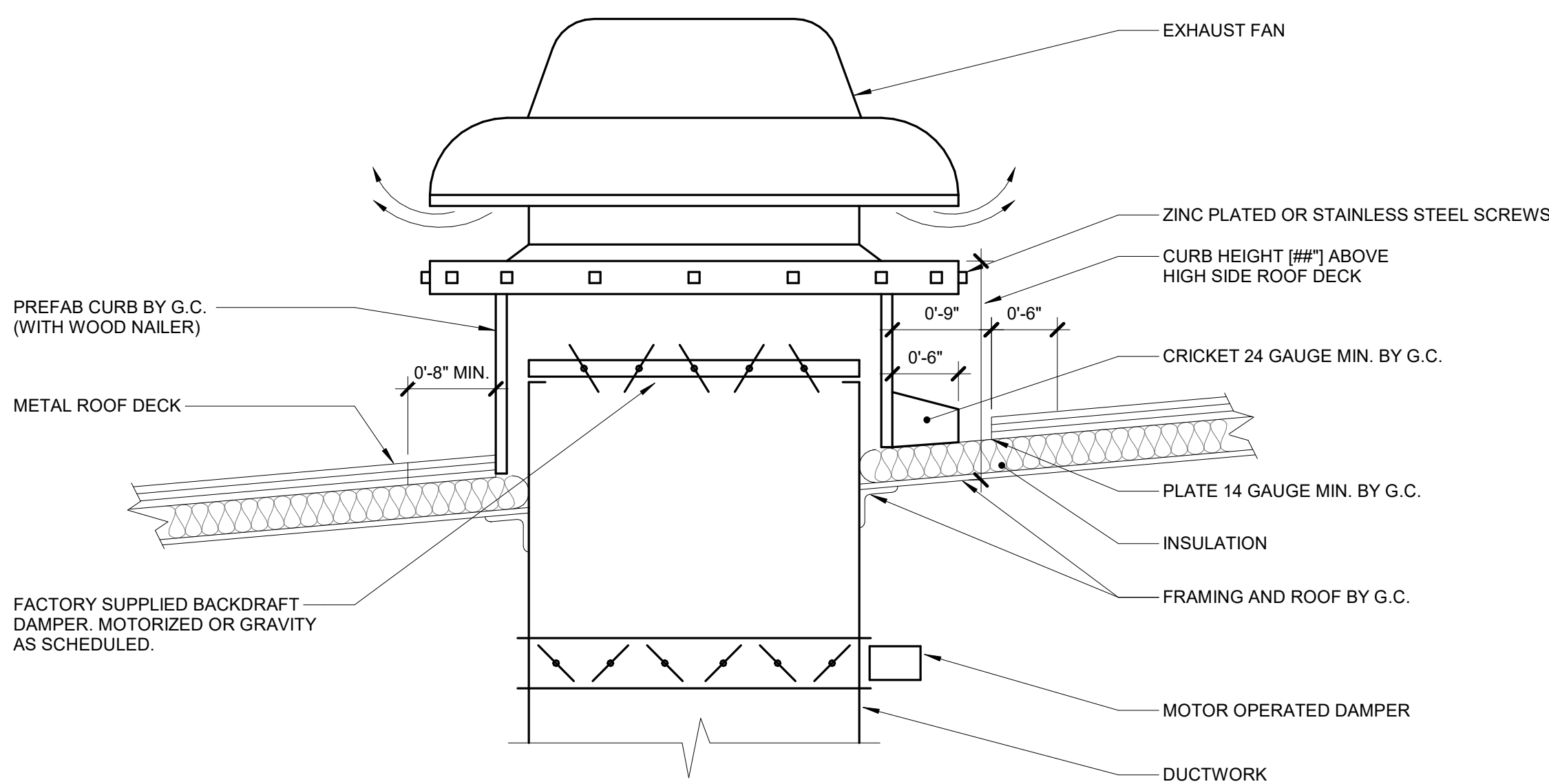
NOTES:

1. CHILLED WATER LINES OR REFRIGERATION SUCTION LINE-ADD LAYER OF CELLULAR FOAM TO COMPLETELY FILL SLEEVE. APPLY MASTIC AND SILICONE SEALANT AS SHOWN.
2. STEAM AND CONDENSATE RETURN LINES-INSULATION TO PASS THROUGH SLEEVE ADD ADDITIONAL INSULATION TO FILL ANNULAR SPACE IN SLEEVE. COAT RAW ENDS WITH CHILLERS INSULATION MASTIC. APPLY SILICONE SEALANT AS SHOWN.
3. REFRIGERANT LIQUID LINES-FILL ANNULAR SPARE CONDUIT COMPLETELY WITH ARMAFLEX TO 2" BEYOND EACH END OF SLEEVE. MASTIC BETWEEN SLEEVE AND INSULATION. APPLY SILICONE SEALANT AS SHOWN.
4. SUPPORT PIPE PER SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) WITH HIGH DENSITY INSULATION INSERT SO PIPING REMAINS AT CENTER OF SLEEVE WITH NO AIR GAPS.



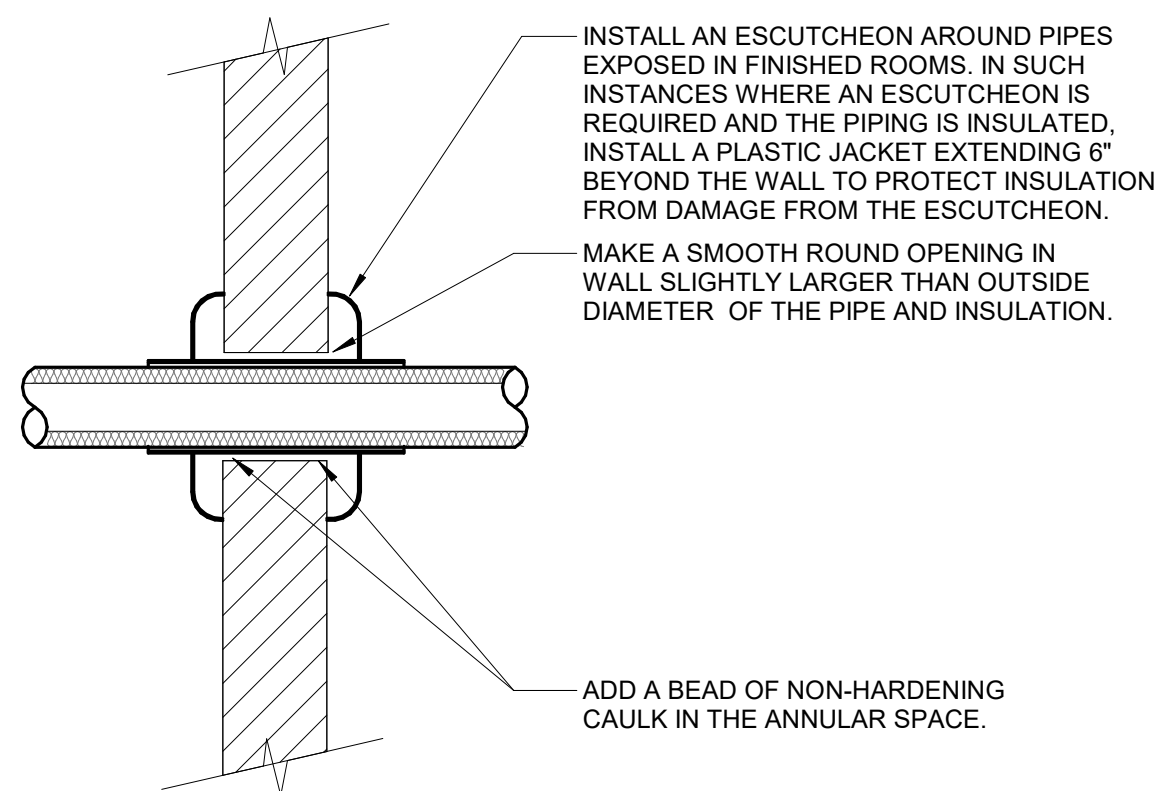
NOTES:

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 07840 (07 84 00) (SECTION 21 05 03 - FIRE PROTECTION, SECTION 22 05 03 - PLUMBING, SECTION 23 05 03 - HVAC) FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
4. WATERTIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME. BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP, PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.



1 ROOF FAN/HOOD CURB - METAL ROOF

12" = 1'-0"

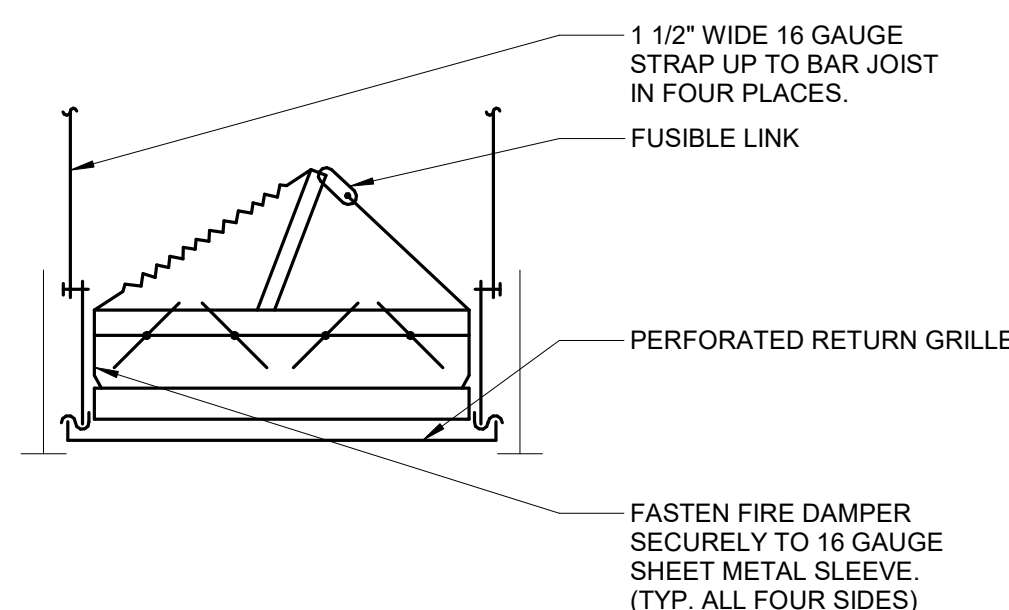


NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTIONS (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR. SEE SPECIFICATION SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

4 WALL PENETRATION - NON-FIRE RATED

NO SCALE



5 RETURN GRILLE FIRE DAMPER

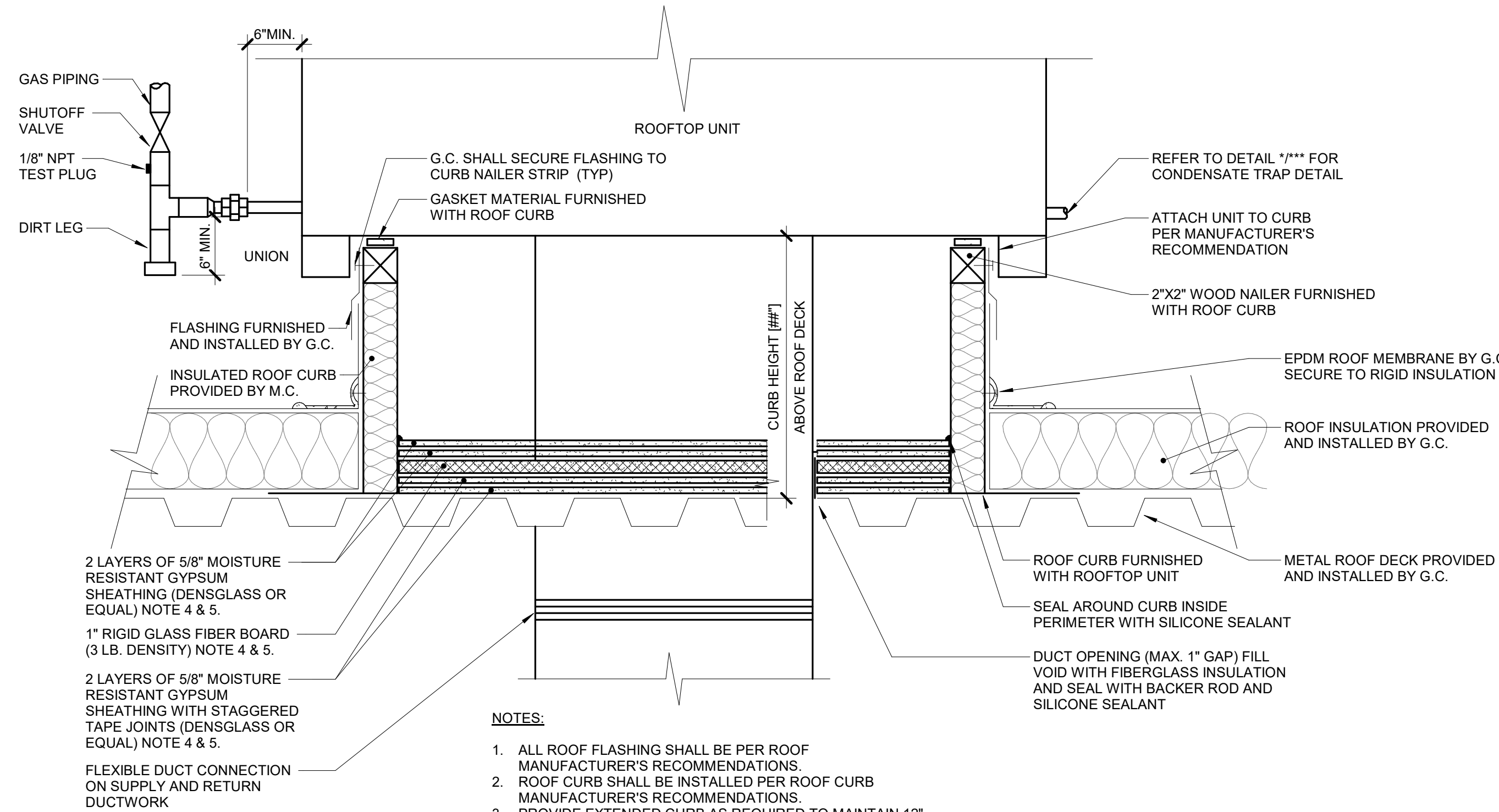
NO SCALE

NOTES:

1. CONTRACTOR OPTION: THE CONTRACTOR MAY SUBSTITUTE A MANUFACTURED WATER/FIRE-RESISTANT FLEXIBLE ACOUSTICAL BARRIER. THIS BARRIER SHALL CONTAIN AT LEAST ONE MASS LAYER (MASS-LOADED VINYL OR GYPSUM) AND FLEXIBLE FIBERGLASS MAT. THE BARRIER MUST HAVE A MINIMUM DOCUMENTED SOUND TRANSMISSION CLASS (STC) RATING OF 37, EQUIVALENT TO VIB-ISO SOUND CLOAK SC.
2. PHOTOGRAPHIC EVIDENCE: PROVIDE PHOTOGRAPHIC EVIDENCE TO THE ENGINEER OF THE SOUND BARRIER INSTALLATION (GYPSUM SHEATHING AND FIBERGLASS MAT OR MANUFACTURED PRODUCT) INSIDE THE CURB BEFORE INSTALLING THE ROOFTOP UNIT.

6 ROOF TOP UNIT CURB

NO SCALE



NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.
2. ROOF CURB SHALL BE INSTALLED PER ROOF CURB MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12\"/>
4. CONTRACTOR OPTION: THE CONTRACTOR MAY SUBSTITUTE A MANUFACTURED WATER/FIRE-RESISTANT FLEXIBLE ACOUSTICAL BARRIER. THIS BARRIER SHALL CONTAIN AT LEAST ONE MASS LAYER (MASS-LOADED VINYL OR GYPSUM) AND FLEXIBLE FIBERGLASS MAT. THE BARRIER MUST HAVE A MINIMUM DOCUMENTED SOUND TRANSMISSION CLASS (STC) RATING OF 37, EQUIVALENT TO VIB-ISO SOUND CLOAK SC.
5. PHOTOGRAPHIC EVIDENCE: PROVIDE PHOTOGRAPHIC EVIDENCE TO THE ENGINEER OF THE SOUND BARRIER INSTALLATION (GYPSUM SHEATHING AND FIBERGLASS MAT OR MANUFACTURED PRODUCT) INSIDE THE CURB BEFORE INSTALLING THE ROOFTOP UNIT.

7 ROOF SUPPORT - ROOF TOP UNIT ISOLATOR CURB

NO SCALE

