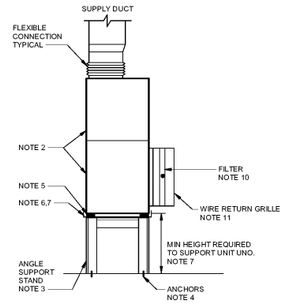
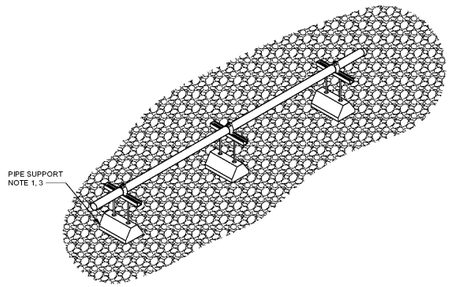


NOTES:

1. DETAIL INDICATES GENERAL COMPONENTS OF A VERTICAL INDOOR AIR HANDLER. ACTUAL CONFIGURATION, COMPONENTS AND ACCESSORIES MAY VARY AS REQUIRED ON OTHER DETAILS, DRAWINGS AND SPECIFICATIONS.
2. SECURE UNIT TO WALL/STRUCTURE WITH ANGLE BRACKET. PER SEISMIC REQUIREMENTS. ATTACH BRACKET IN LOCATION THAT WILL NOT LIMIT ACCESS.
3. PROVIDE 3"x3"x3/16" WELDED ANGLE STEEL FRAME. PRIME AND PAINT FRAME BEFORE INSTALLING UNIT. VERIFY UNIT DIMENSIONS AND ANY ATTACHMENT LOCATIONS PRIOR TO CONSTRUCTING STANDS. SUBMIT DIMENSIONED SHOP DRAWINGS.
4. PROVIDE FLANGE ON STAND FEET TO ANCHOR TO FLOOR PER SEISMIC REQUIREMENTS.
5. WAFFLE PADS.
6. ALL WELDED, 16 GAUGE, STAINLESS STEEL DRAIN PAN WITH OVERFLOW SWITCH.
7. HEIGHT OF OVERFLOW PAN SHALL NOT INTERFERE WITH UNIT ACCESS DOORS OR SERVICE CLEARANCE.
8. PROVIDE PLENUM FULL SIZE OF UNIT RETURN AIR OPENING.
9. CONTINUOUS HINGED FILTER RACK.
10. SEE WIRE GRILLE DETAIL.

VERTICAL INDOOR AIR HANDLER DETAIL

NOT TO SCALE

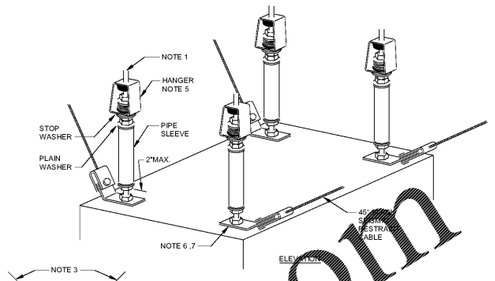


NOTES:

1. PROVIDE SUPPORT 4 FT ON CENTER.
2. SEE SPECIFICATIONS FOR SUPPORT REQUIREMENTS.
3. SET SUPPORTS IN HEAVY BED OF MASTIC.
4. HEIGHT OF SUPPORT SHALL BE ADJUSTED TO PROVIDE A 1/4"/FT SLOPE TOWARD THE DRAIN.

EQUIPMENT DRAIN PIPE SUPPORT ON ROOF DETAIL

NOT TO SCALE

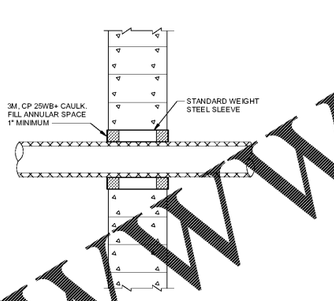


NOTES:

1. ATTACH ROD TO STRUCTURE. PROVIDE 1/4" CLEARANCE BETWEEN STRUCTURE AND TOP OF ISOLATOR.
2. PROVIDE TWO NUTS WITH 1/8" CLEARANCE BETWEEN BOTTOM OF ISOLATOR AND WASHER.
3. CABLE SHALL BE AT 45 DEGREES FROM UNIT AND CEILING. ALTERNATE DIRECTIONS EVERY OTHER SET OF CABLES.
4. CABLE, ROD, SLEEVE, HANGER, AND SPACING SHALL BE CALCULATED BY SEISMIC ENGINEER, BUT IN NO CASE SHALL BE LESS THAN MIN. SIZE SPECIFIED.
5. PROVIDE VIBRATION ISOLATOR WHEN SPECIFIED.
6. PROVIDE TWO NUTS ON INTERIOR OF UNIT.
7. EQUIPMENT MAY BE TRAPEZE MOUNTED. TRAPEZE SHALL BE SECURED TO UNIT.

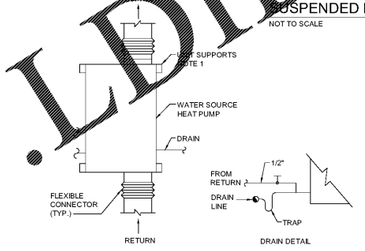
SUSPENDED EQUIPMENT SEISMIC DETAIL

NOT TO SCALE



INSULATED AND NON-INSULATED METAL PIPE AND CONDUIT THROUGH NON-RATED CONCRETE OR BLOCK WALL

NOT TO SCALE

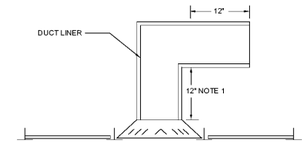


NOTES:

1. PROVIDE VIBRATION ISOLATORS SEE SPECIFICATIONS. SUPPORT FROM STRUCTURE WITH THREADED ROD.
2. PROVIDE 2'6" CLEARANCE FOR ACCESS TO COMPRESSOR FAN AND MOTOR.
3. PROVIDE END OR SIDE DISCHARGE AS SHOWN ON SCHEDULE OR REQUIRED.
4. TRANSITION SUPPLY AND RETURN DUCT AS REQUIRED FOR CONNECTION.
5. MOUNT UNIT TO MAINTAIN SLOPE ON DRAIN LINE.

SUSPENDED WATER SOURCE HEAT PUMP INSTALLATION DETAIL

NOT TO SCALE

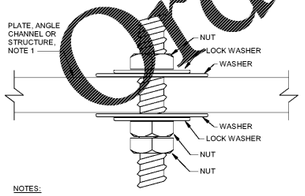


NOTES:

1. WHERE SPACE DOES NOT PERMIT, 12" DIMENSION SHALL BE REDUCED TO MAXIMUM PRACTICAL SIZE.
2. SUPPORT BOOT SIMILAR TO DUCT.
3. DO NOT PROVIDE TURNING VANES.
4. RETURN BOOTS WITHIN 20 FT OF AIR HANDLING EQUIPMENT SHALL BE ORIENTED WITH OPENING AWAY FROM EQUIPMENT.
5. WHERE LOCATION ON PLANS DOES NOT PERMIT INSTALLATION OF RETURN BOOT, GRILLE SHALL BE MOVED TO THE NEAREST SUITABLE LOCATION.

RETURN GRILLE BOOT DETAIL

NOT TO SCALE

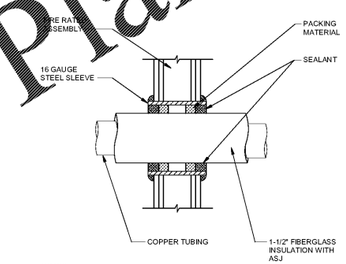


NOTES:

1. THIS DETAIL INDICATES A METHOD OF ATTACHING THREADED RODS, BOLTS OR SIMILARLY CONSTRUCTED COMPONENTS TO ANOTHER COMPONENT (I.E. ANGLE, CHANNEL, PLATE, STRUCTURE, ETC.). THIS ATTACHMENT METHOD MAY NOT BE SUITABLE IN ALL CASES BUT SHALL BE REQUIRED WHERE PRACTICAL. ALTERNATE METHODS, WHEN PRESENTED TO THE ENGINEER, CAN BE CONSIDERED.
2. OTHER MORE SPECIFIC METHODS OF ATTACHMENT, SUCH AS SEISMIC ATTACHMENTS, SHALL APPLY WHERE SPECIFICALLY INDICATED.

ATTACHMENT TO THREADED BOLTS AND RODS DETAIL

NOT TO SCALE

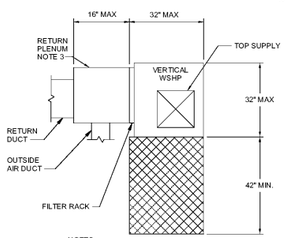


NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR WALL RATINGS.
2. COPPER TUBING TYPE L OR COPPER PIPE. SEE SPECIFICATIONS FOR MORE INFORMATION.
3. PENETRATION DETAIL (W-L-5011) SHOWN FOR REFERENCE ONLY. EXACT UL FIRESTOP PENETRATION DETAIL SHALL BE SELECTED BY THE FIRESTOPPING CONTRACTOR AND SUBMITTED TO THE ARCHITECT. SEE SECTION 07 8400 IN THE SPECIFICATIONS.
4. THROUGH-PENETRATION FIRESTOP SYSTEM SHOULD BE SUITABLE FOR THE PIPE AND INSULATION SYSTEM AS SPECIFIED. WHEN ELASTOMERIC INSULATION IS USED SEE REFRIGERANT PIPE THRU WALL DETAIL.
5. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE FIRESTOPPING CONTRACTOR PRIOR TO PIPE INSTALLATION.
6. PIPING SHALL BE INDEPENDANTLY SUPPORTED ON BOTH SIDES OF THE WALL.
7. INSTALLATION MUST CONFORM TO IBC 714.3.1

CONDENSATE PIPING THROUGH RATED WALL DETAIL

NOT TO SCALE

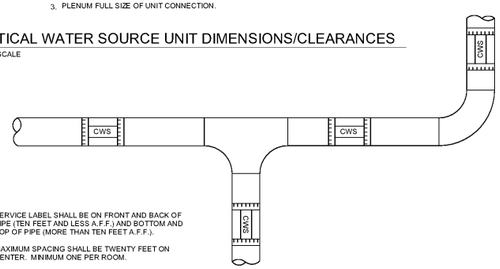


NOTES:

1. CLEARANCE SHOWN IS FOR BASIS OF DESIGN.
2. PROVIDE MANUFACTURERS MINIMUM CLEARANCE OR AS INDICATED ON PLAN, WHICHEVER IS GREATER.
3. PLENUM FULL SIZE OF UNIT CONNECTION.

VERTICAL WATER SOURCE UNIT DIMENSIONS/CLEARANCES

NOT TO SCALE

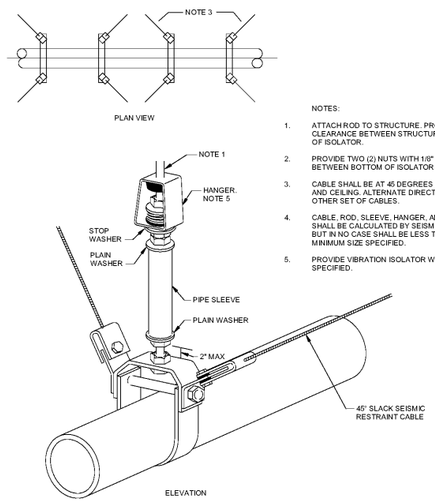


NOTES:

1. SERVICE LABEL SHALL BE ON FRONT AND BACK OF PIPE (TEN FEET AND LESS A.F.F.) AND BOTTOM AND TOP OF PIPE (MORE THAN TEN FEET A.F.F.).
2. MAXIMUM SPACING SHALL BE TWENTY FEET ON CENTER. MINIMUM ONE PER ROOM.
3. LABEL PIPING AT EVERY CHANGE OF DIRECTION.

PIPING IDENTIFICATION DETAIL

NOT TO SCALE



NOTES:

1. ATTACH ROD TO STRUCTURE. PROVIDE 1/4" CLEARANCE BETWEEN STRUCTURE AND TOP OF ISOLATOR.
2. PROVIDE TWO (2) NUTS WITH 1/8" CLEARANCE BETWEEN BOTTOM OF ISOLATOR AND WASHER.
3. CABLE SHALL BE AT 45 DEGREES FROM PIPE AND CEILING. ALTERNATE DIRECTIONS EVERY OTHER SET OF CABLES.
4. CABLE, ROD, SLEEVE, HANGER, AND SPACING SHALL BE CALCULATED BY SEISMIC ENGINEER, BUT IN NO CASE SHALL BE LESS THAN THE MINIMUM SIZE SPECIFIED.
5. PROVIDE VIBRATION ISOLATOR WHEN SPECIFIED.

PIPE SEISMIC DETAIL

NOT TO SCALE

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