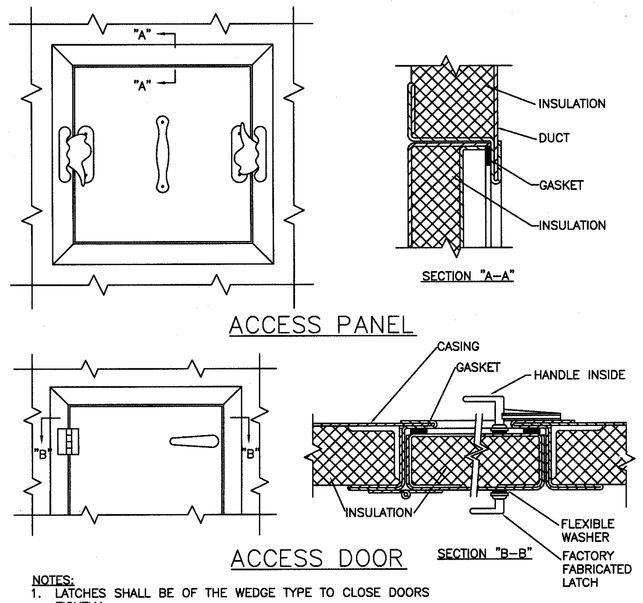
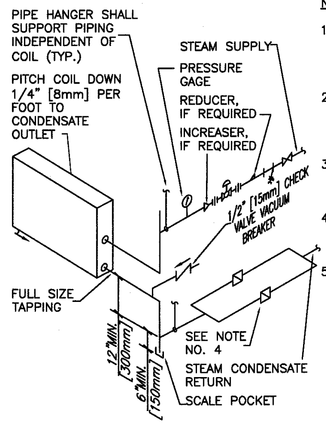


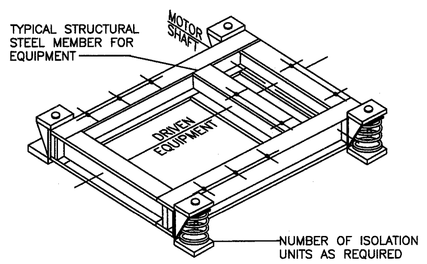
NOTES:
1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
3. SEE SMACNA 2005, FIGURE 9-15

ACCESS PANEL AND DOOR DETAIL
NTS — 1 / M3.1

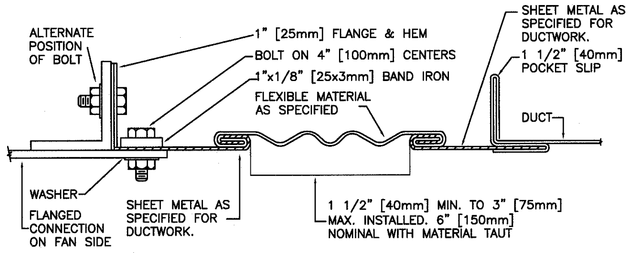


NOTE:
1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATOR UNITS, THE RUNOUT PIPING FOR CONNECTIONS TO COIL SHALL BE INSTALLED WITH SWING JOINTS TO ALLOW FOR THE VIBRATION.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.
3. TRAP EACH COIL SEPARATELY WHEN INSTALLED IN A BANK OF TWO OR MORE HIGH. ALSO PROVIDE SEPARATE VACUUM BREAKER FOR EACH COIL.
4. TWO TRAP ASSEMBLIES IN PARALLEL ARE SHOWN. TWO TRAPS REQUIRED WHEN CONDENSATE LOAD IS 5,000 LBS/HR [2400 KG/HR] OR GREATER.
5. SUPPLY & RETURN PIPES ARE SHOWN FROM SAME END. REHEAT COIL MAY HAVE SUPPLY & RETURN PIPES FROM OPPOSITE ENDS.

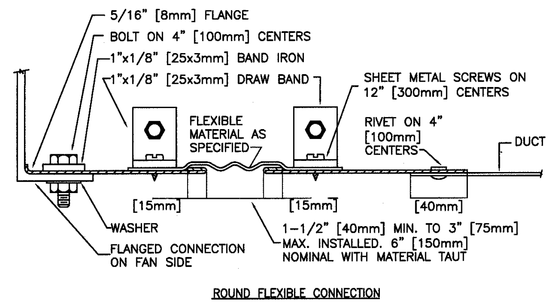
STEAM COIL - PIPING CONNECTIONS
NTS — 5 / M3.1



VIBRATION ISOLATION BASES
NTS — 12 / M3.1

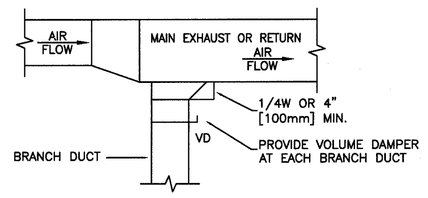


RECTANGULAR FLEXIBLE CONNECTION



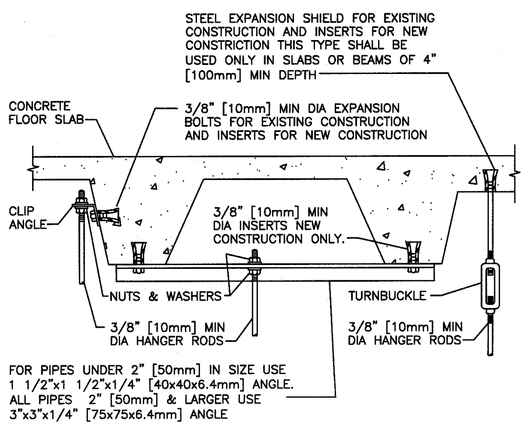
ROUND FLEXIBLE CONNECTION

FLEXIBLE DUCT CONNECTIONS
NTS — 2 / M3.1

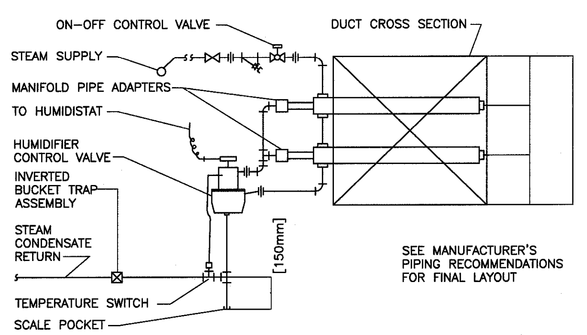


PLAN VIEW

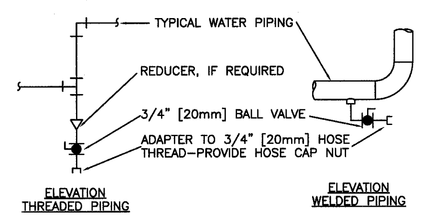
EXHAUST OR RETURN BRANCH DUCTWORK
NTS — 6 / M3.1



SECURING HANGER RODS IN CONCRETE
NTS — 9 / M3.1

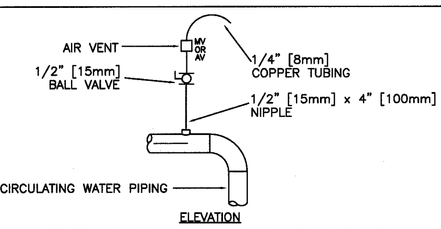


STEAM HUMIDIFIER - PIPING CONNECTIONS (MULTIPLE DISPERSION TUBES)
NTS — 13 / M3.1



TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

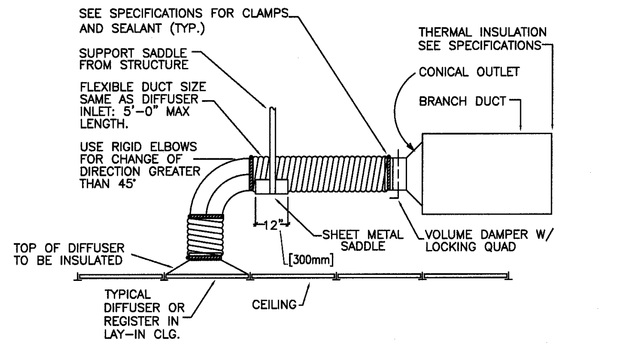
NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.



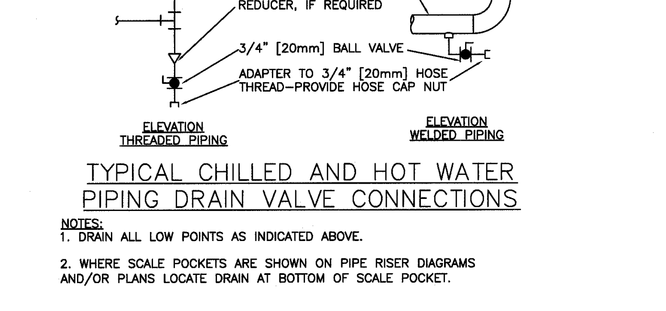
TYPICAL MANUAL AIR VENT

NOTES:
1. VENT ALL HIGH POINTS INDICATED ABOVE.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

DRAIN VALVE AND AIR VENT CONNECTIONS (HYDRONIC SYSTEMS)
NTS — 3 / M3.1



FLEXIBLE AIR DUCT CONNECTOR
NTS — 7 / M3.1

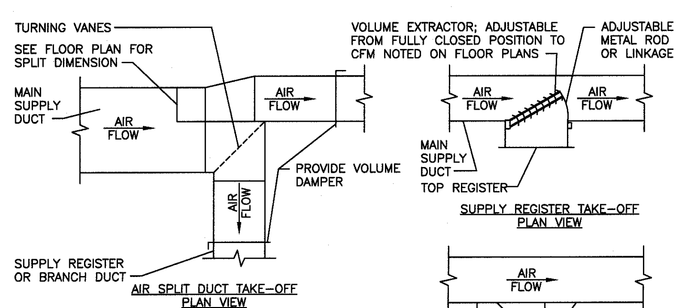


FLOOR MOUNT EQUIPMENT RESTRAINED BY RESILIENT PADS (TYPE DS)

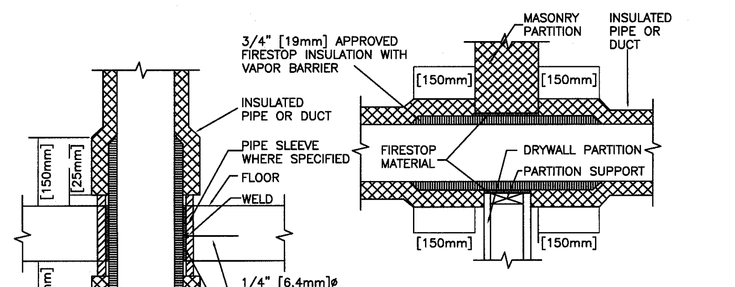
SEISMIC BRACING FOR LIGHT SUSPENDED EQUIPMENT

NOTE:
NOT REQUIRED FOR AIR TERMINAL UNITS.

SEISMIC BRACING FOR EQUIPMENT
NTS — 10 / M3.1



SUPPLY DUCTWORK TAKE-OFFS
NTS — 14 / M3.1

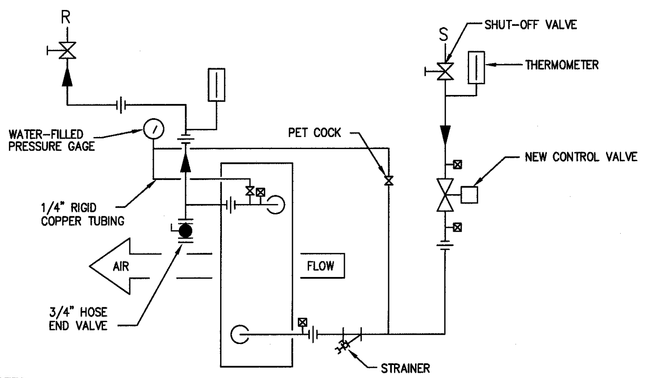


FLOOR OR DECK PENETRATION

PARTITION OR CHASE PENETRATION

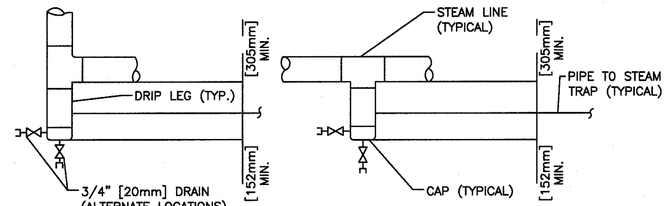
NOTE:
1. APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION 07 84 00, FIRE STOPPING SYSTEMS.

PIPE/DUCT PENETRATION OF SMOKE/FIRE BARRIERS
NTS — 4 / M3.1



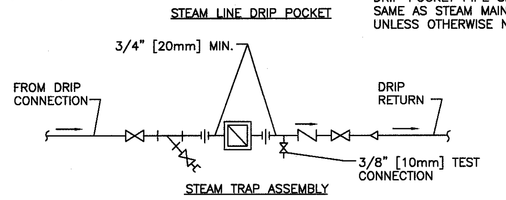
NOTES:
1. CW COILS ARE TO BE PIPED COUNTERFLOW AS INDICATED. HOT WATER COILS TO BE PARALLEL FLOW.
2. LOCATE 2-WAY VALVE, UNIONS, AND/OR FLANGES IN LOCATIONS THAT WILL PERMIT REMOVAL OF COIL WITHOUT REMOVAL OF 2-WAY VALVE.
3. LOCATE PIPING TO AVOID INTERFERING WITH ADJACENT ACCESS PANELS, COILS, AND AIR HANDLING UNIT APPURTENANCES.
4. ALL THERMOMETERS, GAGES, VALVES, ETC. TO BE OF OUTDOOR-USE QUALITY. ENVIRONMENT IN SHREVEPORT IS HOT, HUMID, AND CORROSIVE - CONTRACTOR SHALL SEEK APPROVAL FROM VA ENGINEERING STAFF AND PARADIGM ENGINEERS AND CONSTRUCTORS BEFORE PURCHASING ANY EQUIPMENT.

CHILLED WATER AIR HANDLING UNIT COIL DETAIL
NTS — 8 / M3.1



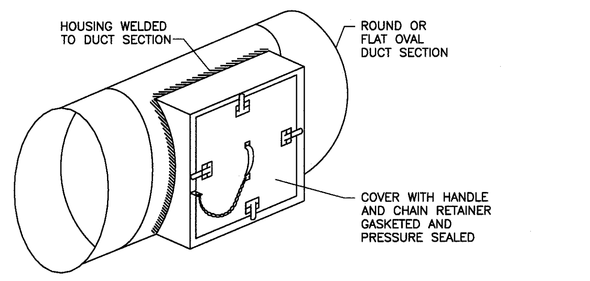
STEAM LINE DRIP POCKET

NOTE:
DRIP POCKET PIPE SIZE SAME AS STEAM MAIN UNLESS OTHERWISE NOTED.



STEAM TRAP ASSEMBLY

STEAM LINE DRIP POCKET STEAM TRAP ASSEMBLY
NTS — 11 / M3.1



ACCESS SECTION FOR ROUND/OVAL DUCT
NTS — 15 / M3.1

FULLY SPRINKLERED BUILDING

BID DOCUMENTS

REVISIONS	DATE
1	
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MECHANICAL DETAILS 2

DRAWING NO. M3.1 — BID PKG.