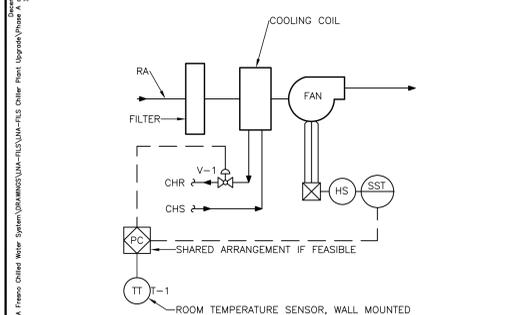


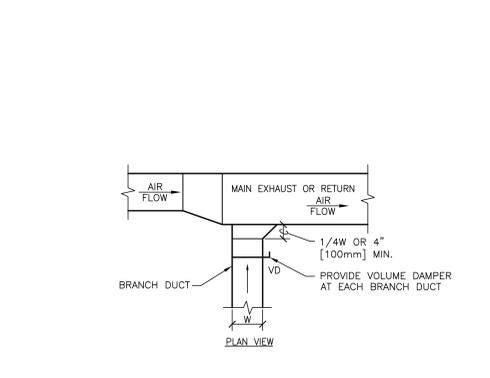
FAN COIL SEQUENCE OF OPERATION (COOLING ONLY)

1. FAN COIL UNIT SHALL OPERATE ON A SCHEDULE AS SET BY THE DCC.
2. MODULATE V-1 TO MAINTAIN SPACE SET POINT AND FAN SHALL CYCLE W/TEMPERATURE.
3. ALARM IF SPACE TEMPERATURE OUTSIDE OF RANGES.



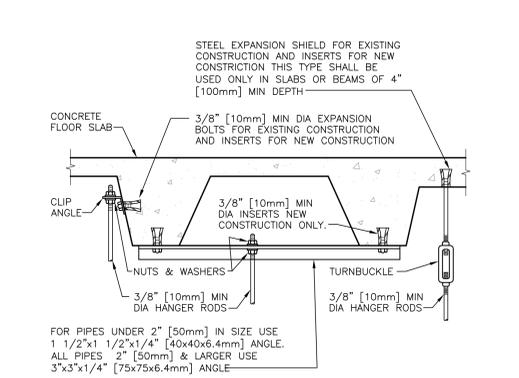
13 COOLING ONLY FAN COIL UNIT CONTROLS
MS-501 NO SCALE

EXHAUST OR RETURN BRANCH DUCTWORK



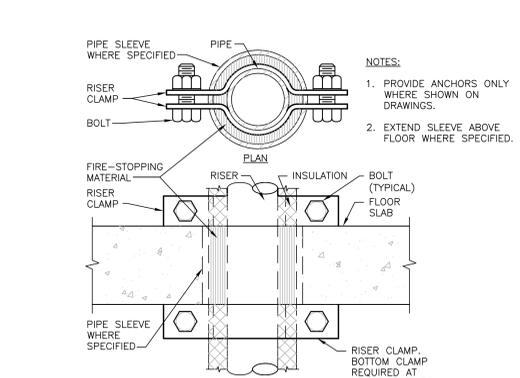
10 EXHAUST OR RETURN BRANCH DUCTWORK
MS-501 NO SCALE

SECURING HANGER RODS IN CONCRETE



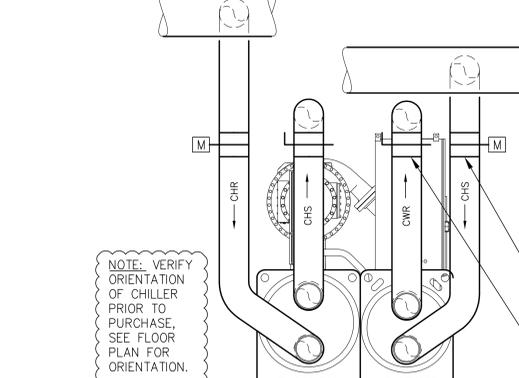
7 SECURING HANGER RODS IN CONCRETE
MS-501 NO SCALE

SUPPORT/ANCHOR FOR PIPE RISERS



4 SUPPORT/ANCHOR FOR PIPE RISERS
MS-501 NO SCALE

CHILLER PIPE ELEVATION



1 CHILLER PIPE ELEVATION
MS-501 NO SCALE

REFRIGERANT LEAK DETECTION SYSTEM (R-134A)

1. PROVIDE "BREAK-GLASS" TYPE SWITCH IMMEDIATELY ADJACENT TO AND OUTSIDE OF PRINCIPAL CHILLER ROOM EXIT. EE-1 SHALL RESPOND AUTOMATICALLY TO REFRIGERATION DETECTION SYSTEM SET TO ACTIVATE THE VENTILATION SYSTEM WHEN REFRIGERANT (R-134A) LEVEL REACHES 25,000 PPM. THE VENTILATION SYSTEM INCLUDES THE ENABLING OF EE-1 AND OPENING THE MOTORIZED BACKDRAFT DAMPERS ON THE MAKE UP AIR LOUVERS.
2. PROVIDE TWO COLORED AND LABELED INDICATOR LAMPS THAT INDICATE WHETHER OR NOT THERE IS AIRFLOW THROUGH EE-1.
3. LOCATE AND INSTALL SYSTEM COMPONENTS PER 2013 CMC CHAPTER 11.

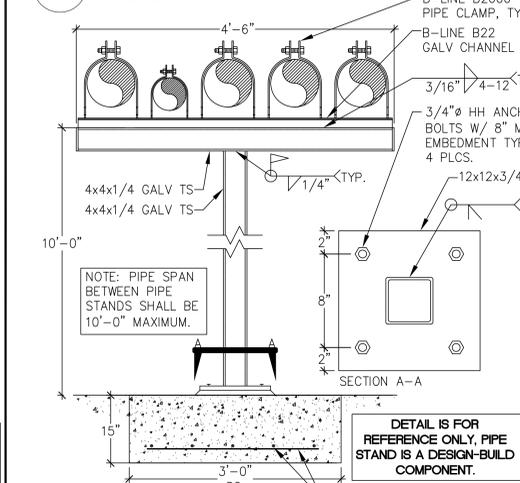
EMERGENCY EQUIPMENT CONTROL (UPON LEAK DETECTION)

1. ACTIVATE THE "OFF-ONLY" SWITCH ADJACENT TO THE INSIDE AND OUTSIDE THE PRINCIPAL EXIT DOOR. THIS SWITCH SHALL PROVIDE OFF-ONLY CONTROL OF COMPRESSORS, NORMALLY CLOSED VALVES, AND ANY AUTOMATIC REFRIGERANT VALVES.
2. INSTALL REFRIGERANT DETECTORS IN SPACE PER MANUFACTURER'S RECOMMENDATIONS

DESIGNER'S NOTES:

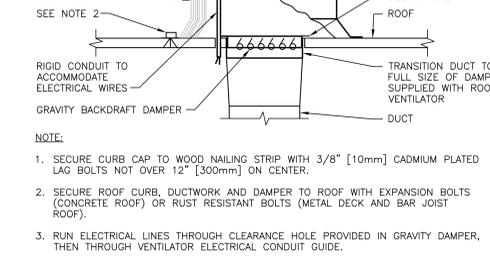
1. PROVIDE A MOTORIZED DAMPER, IF APPLICABLE.
2. PROVIDE DIRECT DRIVE FANS FOR LOCATIONS NOT EASILY ACCESSIBLE. AS ATTIC OR PIPE BASEMENT AND LESS THAN 2 HP.
3. MINIMUM CURB HEIGHT SHALL BE 12 INCHES (300 mm). INCREASE HEIGHT, IF REQUIRED, TO OVERCOME SNOW DRIFT.

14 REFRIGERANT LEAK DETECTION
MS-501 NO SCALE



15 PIPE STAND
MS-501 NO SCALE

POWER ROOF VENTILATOR

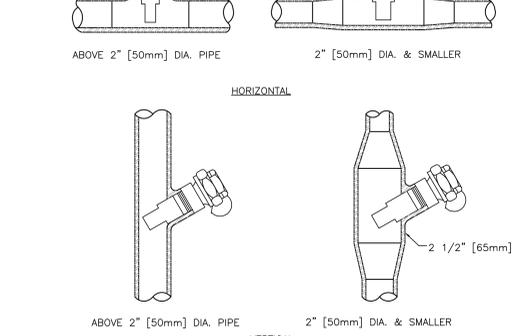


DESIGNER'S NOTES:

1. PROVIDE DIRECT DRIVE FANS FOR LOCATIONS NOT EASILY ACCESSIBLE. AS ATTIC OR PIPE BASEMENT AND LESS THAN 2 HP.
3. MINIMUM CURB HEIGHT SHALL BE 12 INCHES (300 mm). INCREASE HEIGHT, IF REQUIRED, TO OVERCOME SNOW DRIFT.

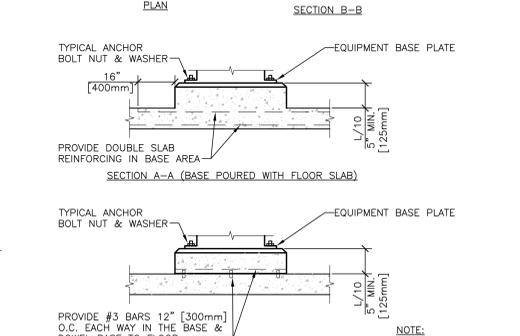
11 POWER ROOF VENTILATOR
MS-501 NO SCALE

INSTALLATION OF THERMOMETER WELLS



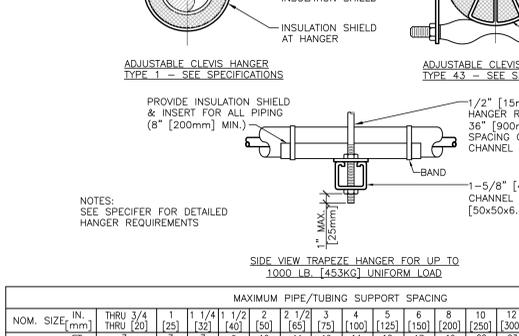
8 INSTALLATION OF THERMOMETER WELLS
MS-501 NO SCALE

CONCRETE EQUIPMENT BASES



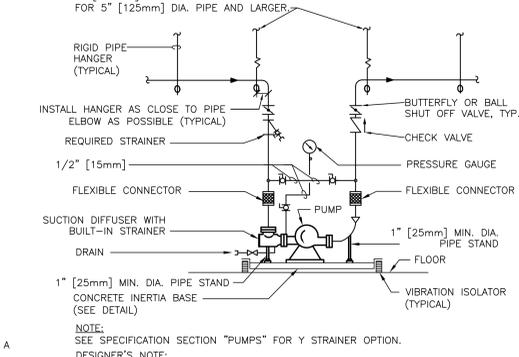
5 CONCRETE EQUIPMENT BASES
MS-501 NO SCALE

PIPE HANGERS



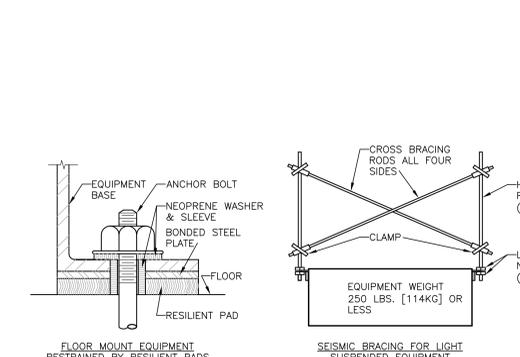
2 PIPE HANGERS
MS-501 NO SCALE

DOUBLE SUCTION FLOOR-MOUNTED PUMPS, CONNECTIONS WITH FLEXIBLE COUPLINGS



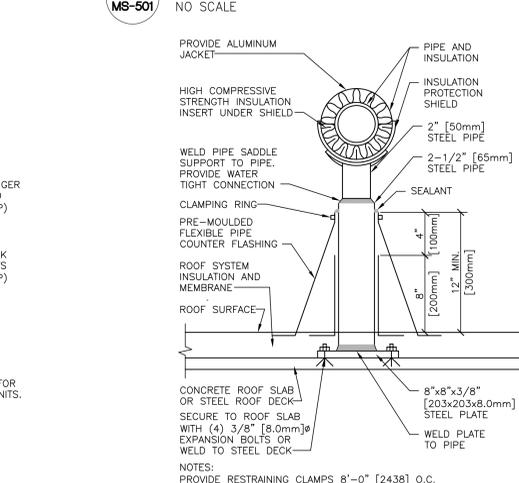
9 DOUBLE SUCTION FLOOR-MOUNTED PUMPS, CONNECTIONS WITH FLEXIBLE COUPLINGS
MS-501 NO SCALE

SEISMIC BRACING EQUIPMENT



6 SEISMIC BRACING EQUIPMENT
MS-501 NO SCALE

SUPPORTING PIPE ON ROOF



3 SUPPORTING PIPE ON ROOF
MS-501 NO SCALE

100% CONSTRUCTION DOCUMENT SUBMITTAL

CONSULTANTS: AXIOM ENGINEERS LEE & ASSOCIATES CONSULTING ENGINEERS 22 Lower Ridge Rd., Suite A Monterey, California 93940-3768 Tel: (831) 649-8000 Fax: (831) 649-8038 email: mail@axiomengineers.com		ARCHITECT/ENGINEERS: hfp architects 745 distel drive, suite a los altos, ca 94022 650-964-4514 fax: 650-967-5148		Drawing Title DETAILS - NEW	Project Title VA CENTRAL CALIFORNIA HEALTH CARE SYSTEM NEW BUILDING 22A + CHILLER INFRASTRUCTURE	Project Number 570-13-300	Office of Construction and Facilities Management Department of Veterans Affairs
Revisions: _____ Date: _____		Approved: Project Director		Location FRESNO, CA.	Building Number 22A	Drawing Number 22A-MS-501	