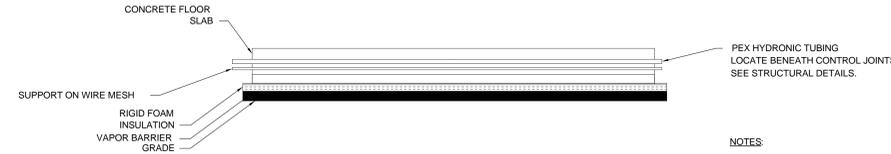


**NOTES:**

1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" CADIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF).
3. RUN ELECTRICAL LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.

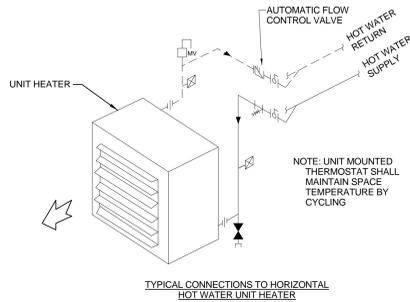
**1 POWER TYPE ROOF VENTILATOR**  
N.T.S.



**NOTES:**

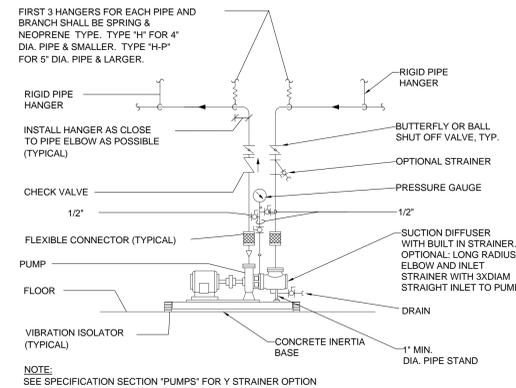
1. FLOOR CONSTRUCTION DETAILS AND MATERIALS ARE SHOWN SCHEMATICALLY. REFER TO ARCHITECTURAL AND STRUCTURAL FLOOR PLANS AND DETAILS FOR EXACT DETAILS AND SPECIFICATIONS.
2. VAPOR BARRIER MUST BE INSTALLED BETWEEN BASE AND RIGID FOAM INSULATION. VAPOR BARRIER SHALL BE MINIMUM 6 MIL. POLY.

**4 HYDRONIC HEATING SLAB**  
N.T.S.



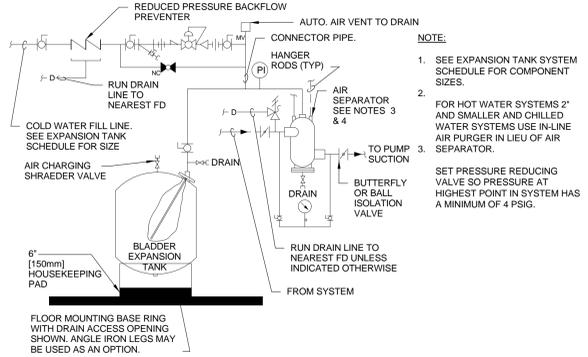
TYPICAL CONNECTIONS TO HORIZONTAL HOT WATER UNIT HEATER

**2 UNIT HEATER (HOT WATER) - PIPING CONNECTIONS**  
N.T.S.



NOTE: SEE SPECIFICATION SECTION 'PUMPS' FOR Y STRAINER OPTION

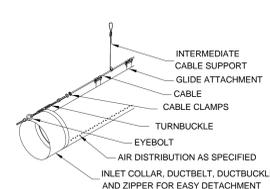
**5 SINGLE SUCTION FLOOR MOUNTED PUMPS**  
N.T.S.



**NOTE:**

1. SEE EXPANSION TANK SYSTEM SCHEDULE FOR COMPONENT SIZES.
2. FOR HOT WATER SYSTEMS 2" AND SMALLER AND CHILLED WATER SYSTEMS USE IN-LINE AIR PURGER IN LIEU OF AIR SEPARATOR.
3. SET PRESSURE REDUCING VALVE SO PRESSURE AT HIGHEST POINT IN SYSTEM HAS A MINIMUM OF 4 PSIG.

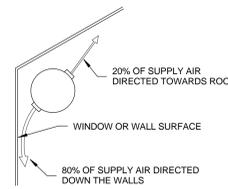
**3 FLOOR MOUNTED EXPANSION TANK - PIPING CONNECTIONS**  
N.T.S.



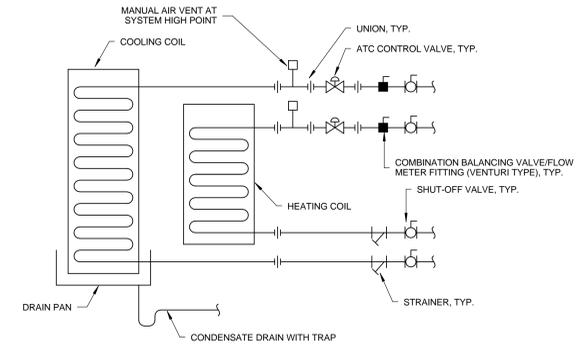
**NOTES:**

1. 1 ROW CABLE SUSPENSION AT 12 O'CLOCK

**6 FABRIC DUCT SUSPENSION DETAIL**  
N.T.S.



**7 FABRIC DUCT AIR DISTRIBUTION**  
N.T.S.



**NOTES:**

1. INSULATE ALL FAN COIL PIPING
2. THIS DETAIL IS PROVIDED FOR INFORMATION ONLY. THE HYDRONIC ACCESSORIES INDICATED ARE INCLUDED WITH THE VA PROVIDED. CONTRACTOR INSTALLED FAN COIL UNITS.

**8 4-PIPE FAN COIL UNIT PIPING DETAIL**  
N.T.S.

FULLY SPRINKLERED  
ISSUED FOR BID

**CONSULTANTS:**

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**PROJECT MANAGER:**



Project Number 3627  
Scale As indicated

Drawing Title <b>MECHANICAL DETAILS</b>	Project Title <b>RENOVATE BUILDING 69</b>
Approved: Project Director	Location <b>1400 Black Horse Hill, Coatesville, PA</b>
Date 1/22/2014	Checked DJR
Drawn ORD	Drawing Number <b>MH502</b>

VA Project Number  
542-CSI-203  
Building Number  
69  
Drawing Number  
MH502  
Dwg. 49 of 86

Office of  
Facilities  
Management

