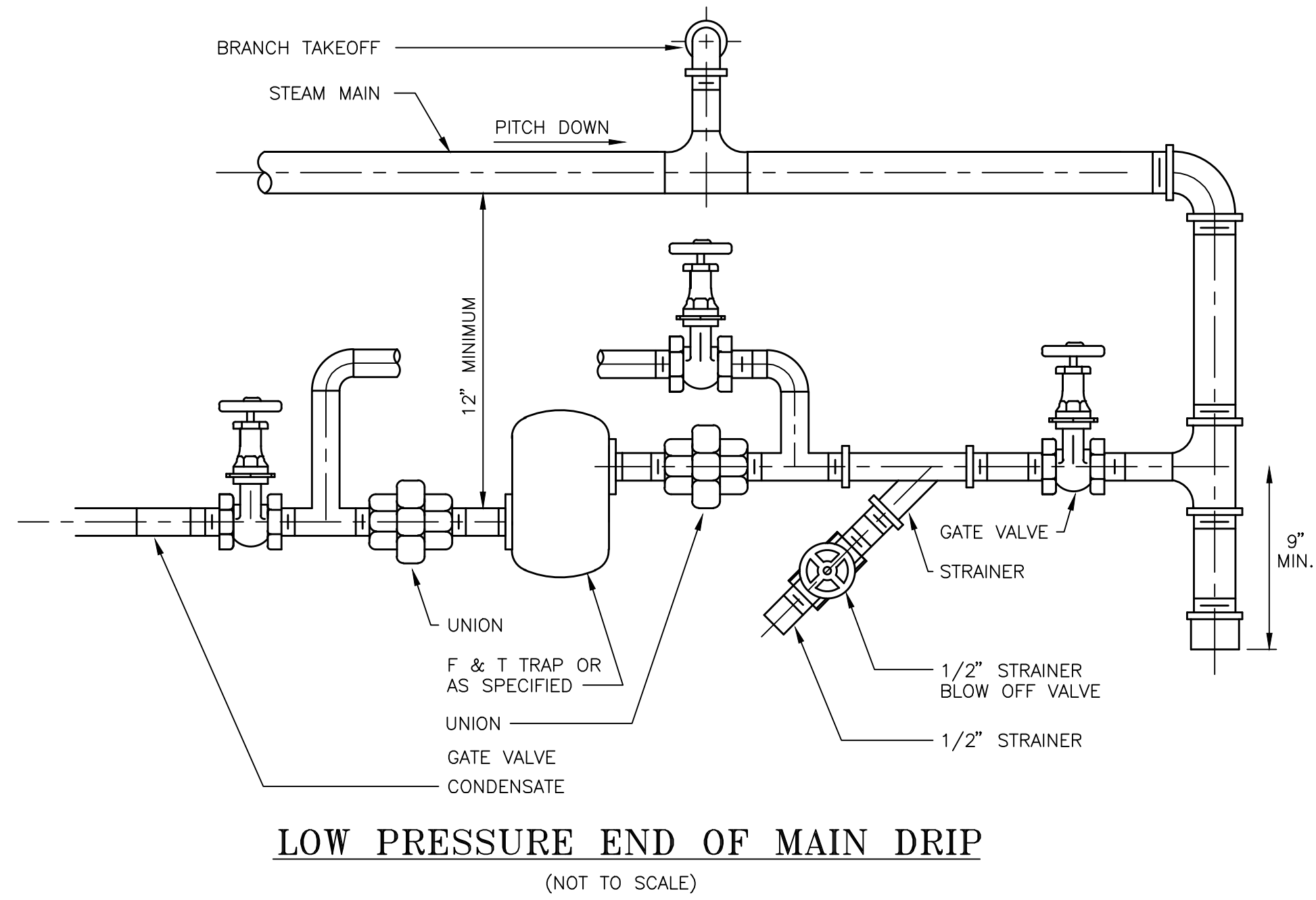
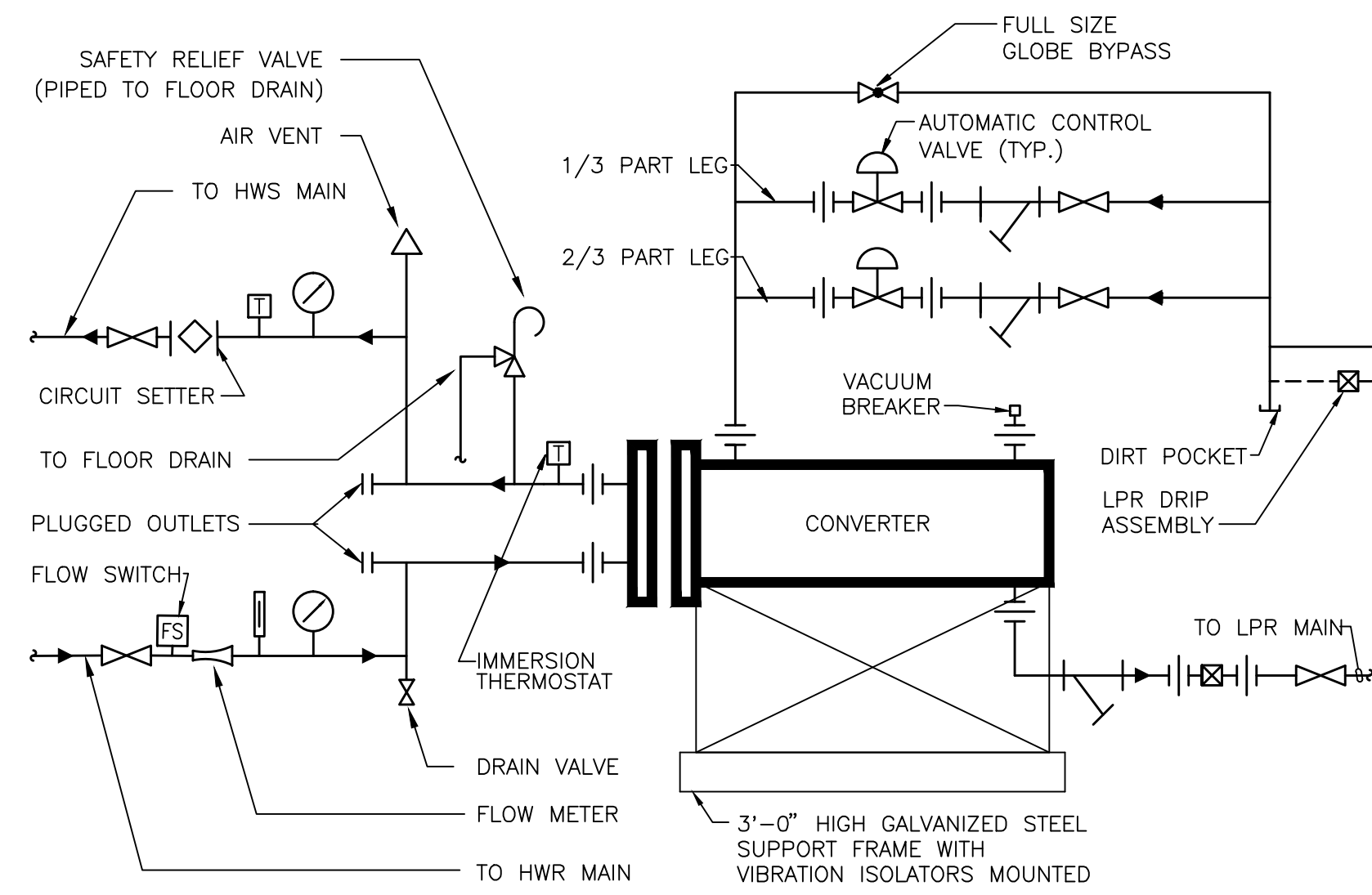


**HOT WATER UNIT HEATER**  
(NOT TO SCALE)

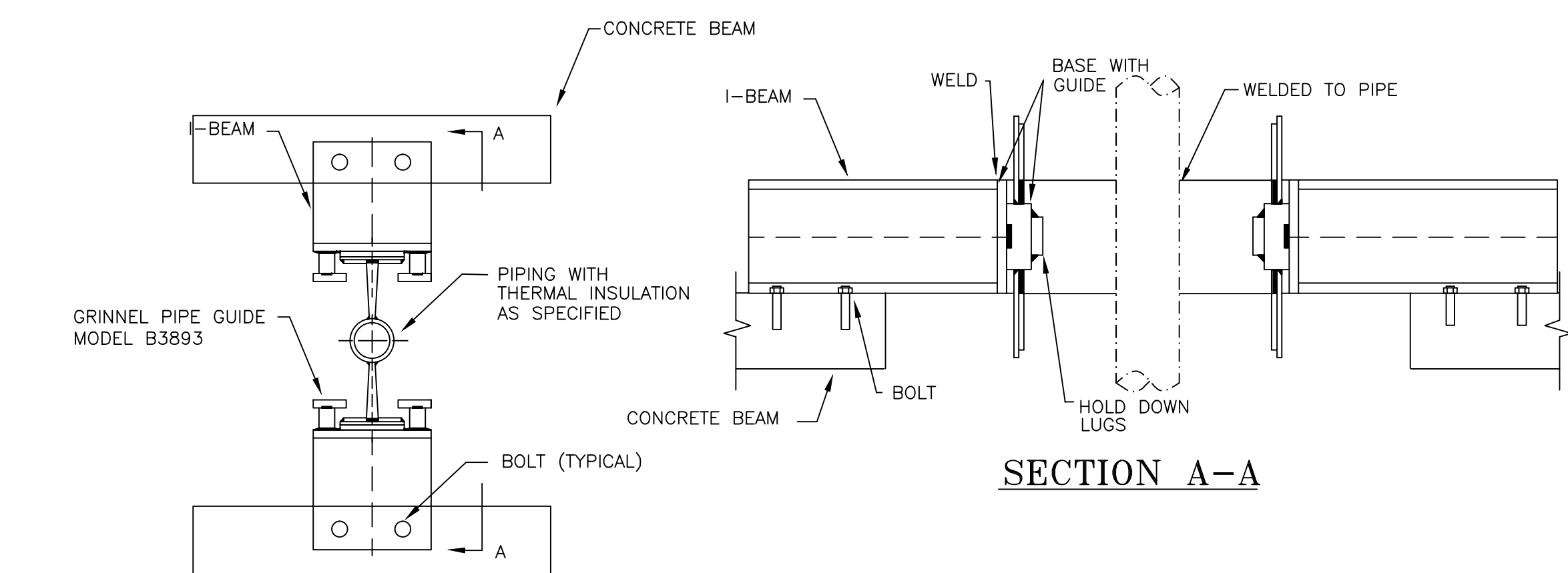


**LOW PRESSURE END OF MAIN DRIP**  
(NOT TO SCALE)

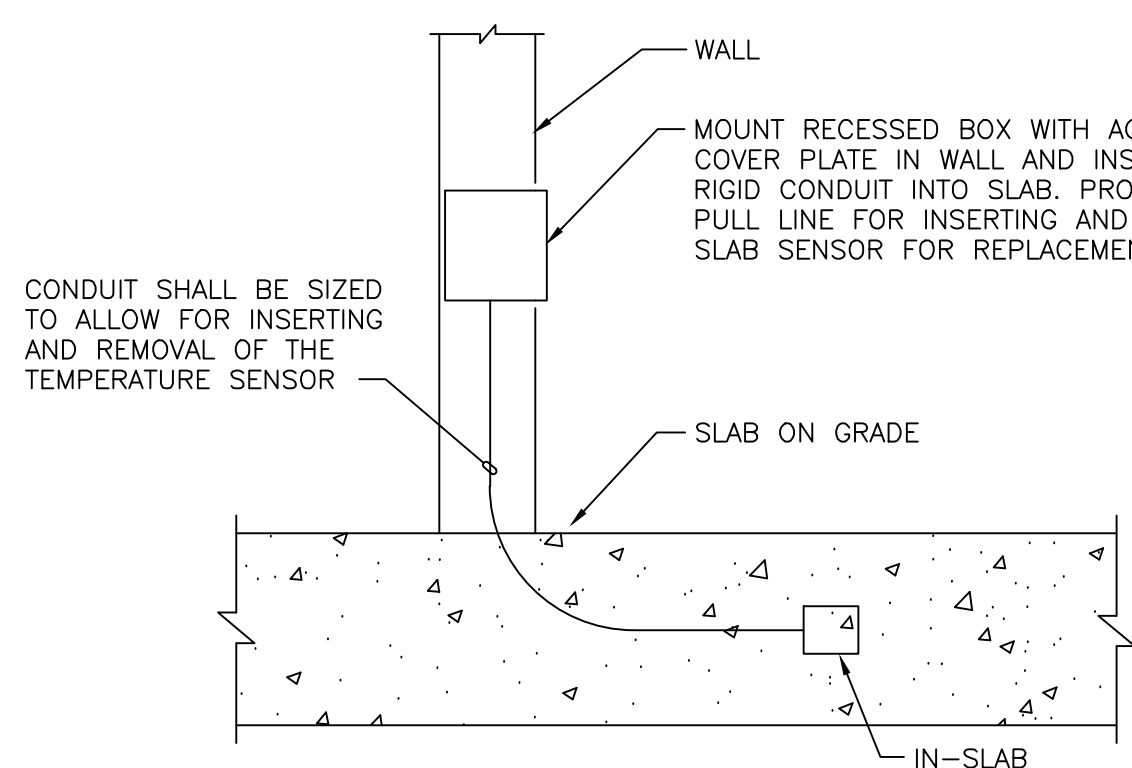


- NOTES:
1. ALL PIPING SHALL BE ARRANGED TO ALLOW REMOVAL OF TUBE BUNDLE WITH MINIMAL DISTURBANCE TO PIPING.
  2. PROVIDE TWO VALVES AT EACH STRAINER/RAIN ON STEAM SERVICE. FIRST VALVE IN LINE TO BE WELDED, SECOND VALVE TO HAVE THREADED END CONNECTIONS.
  3. PROVIDE REMOTE KILL STATION AT ENTRANCE TO MER THAT RELIEVES ALL CONTROL AIR PRESSURE.

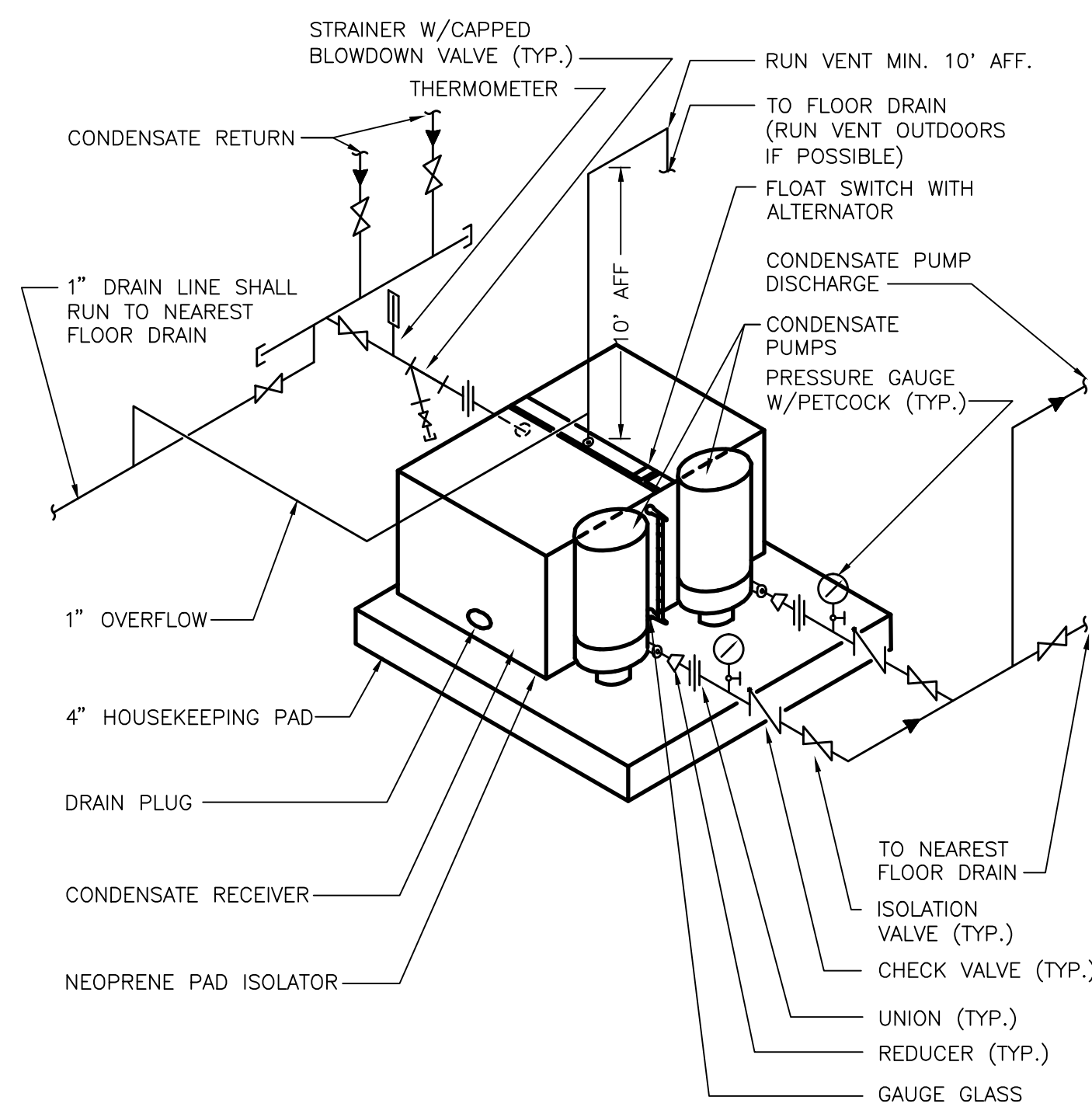
**HOT WATER CONVERTER PIPING**  
(NOT TO SCALE)



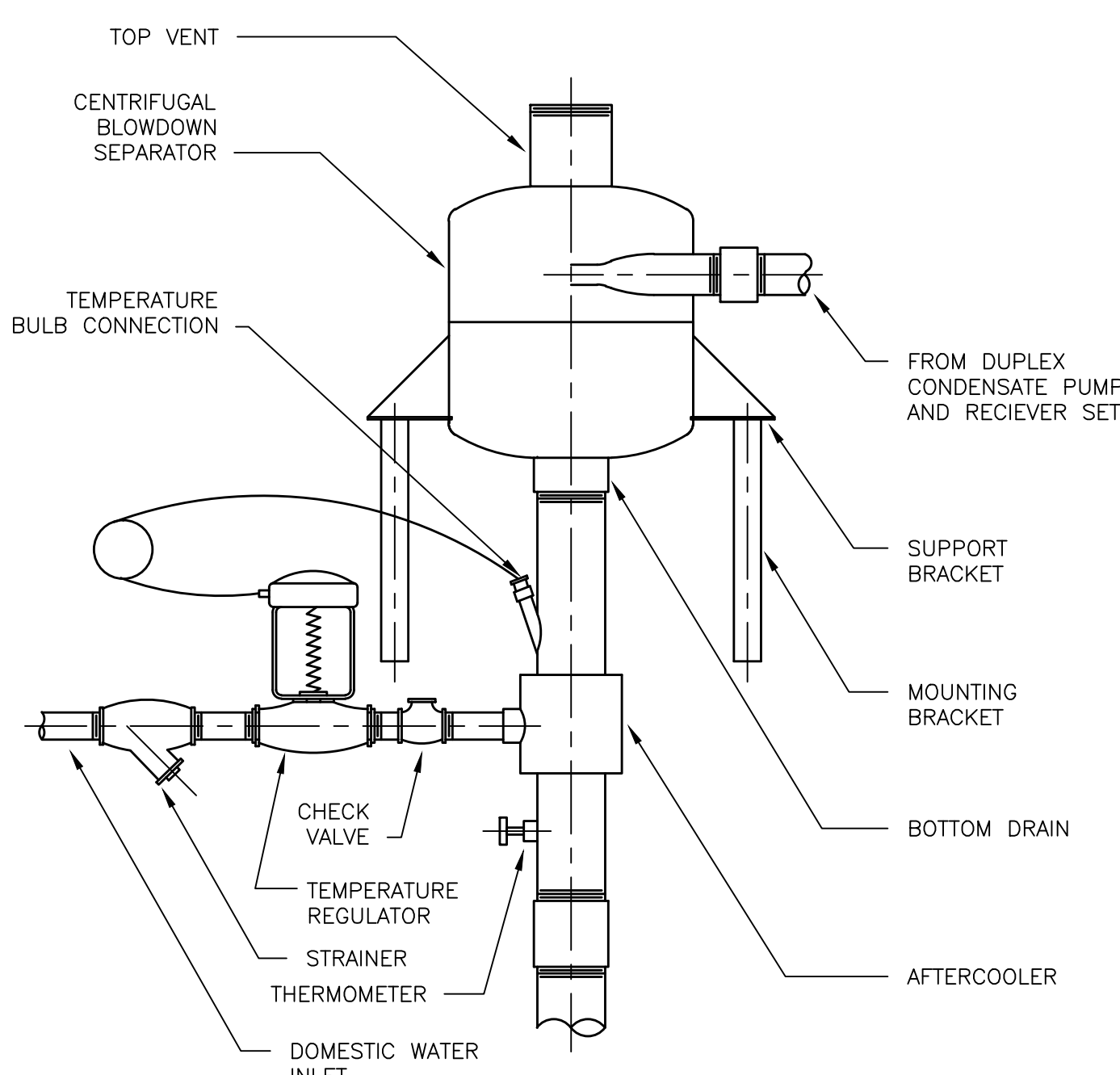
NOTE: CONTRACTOR MAY SUBSTITUTE SPIDER GUIDE IF SPACE PERMITS.  
**PIPE GUIDE IN VERTICAL SHAFT DETAIL**  
(NOT TO SCALE)



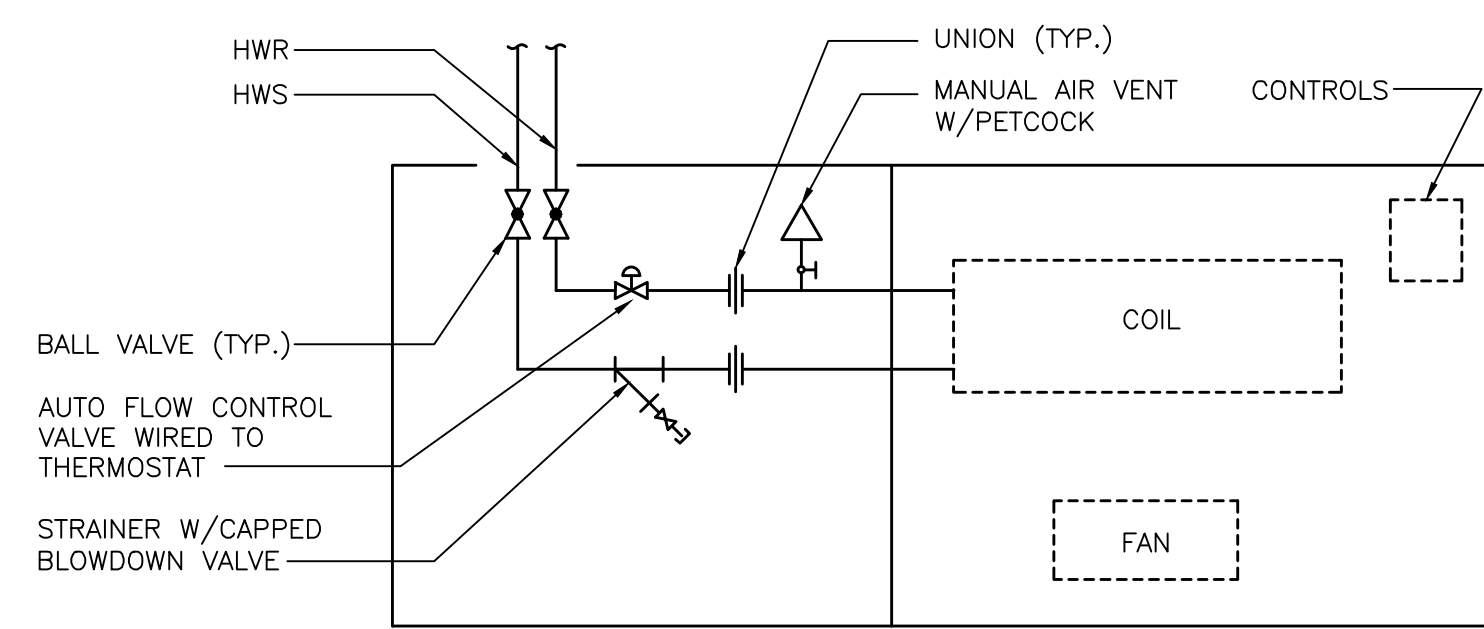
**RADIANT FLOOR IN-SLAB TEMPERATURE SENSOR**  
(NOT TO SCALE)



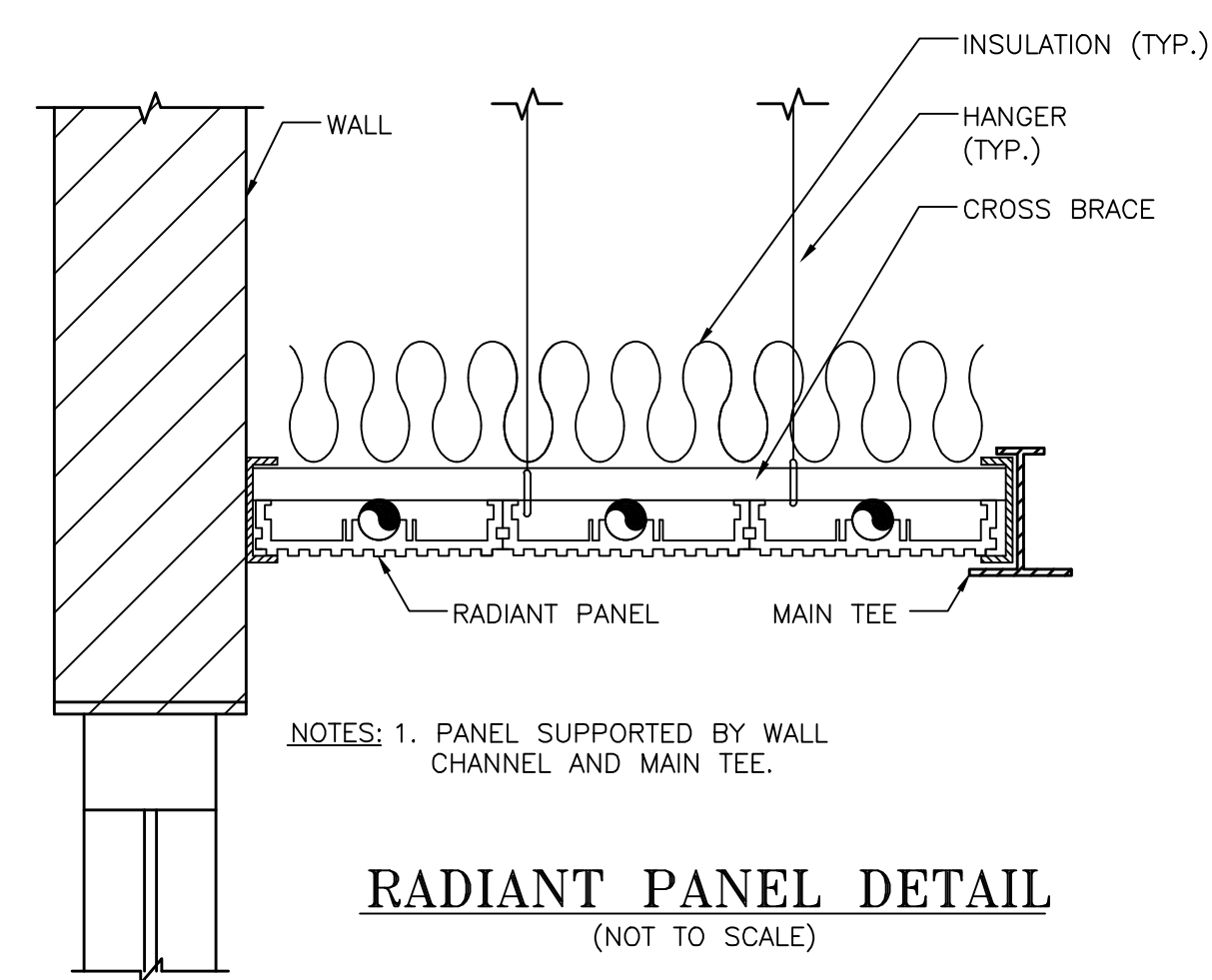
**DUPLEX CONDENSATE PUMP AND RECEIVER SET CONNECTIONS**  
(NOT TO SCALE)



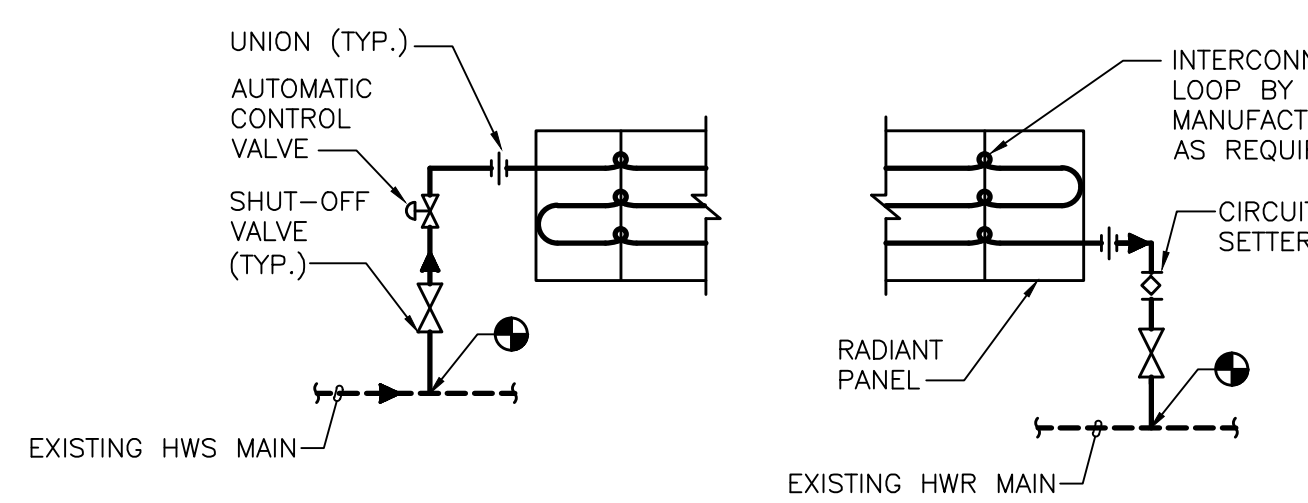
**SEPERATOR AND AFTERCOOLER DETAIL**  
(NOT TO SCALE)



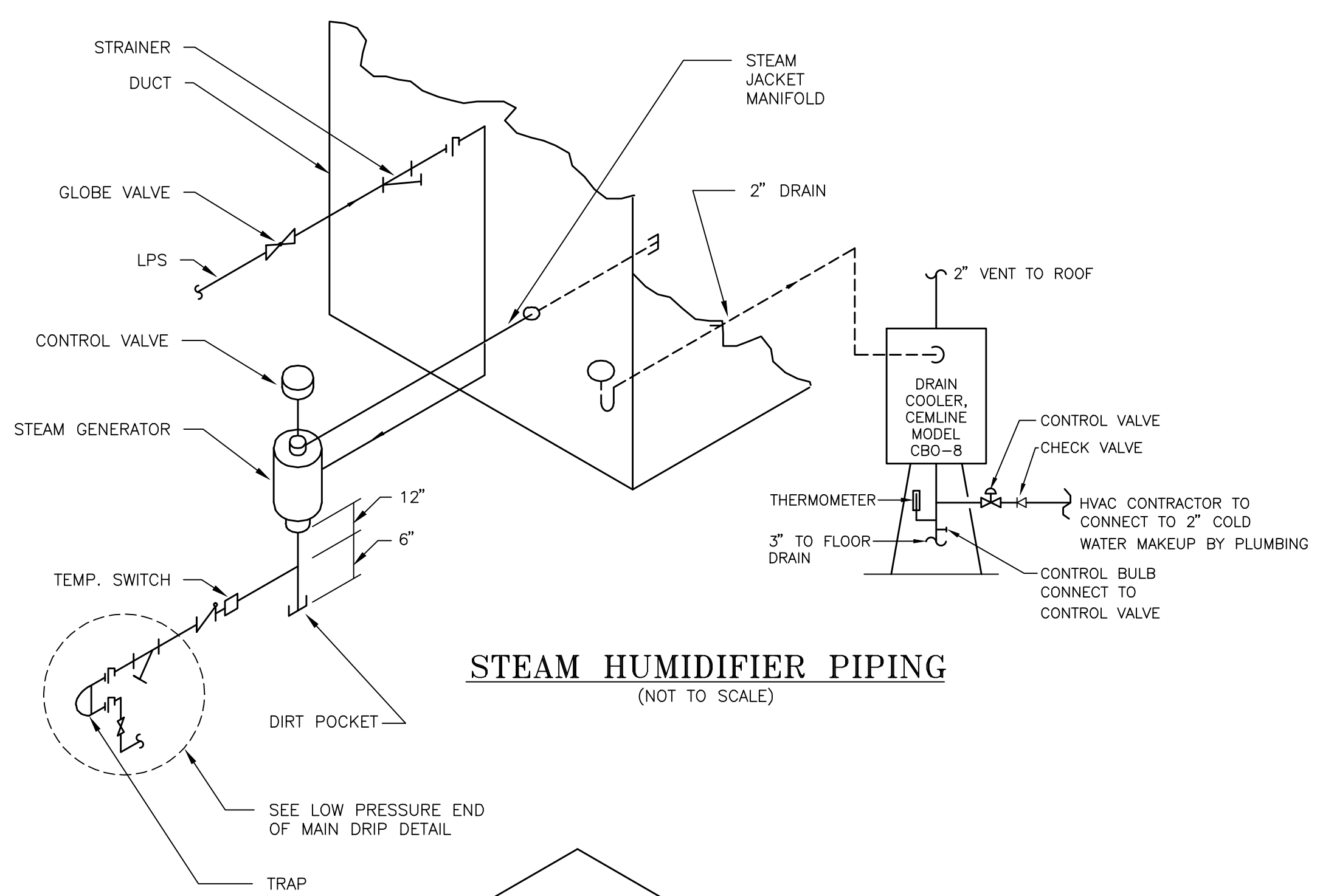
**HOT WATER CABINET UNIT HEATER DETAIL**  
(NOT TO SCALE)



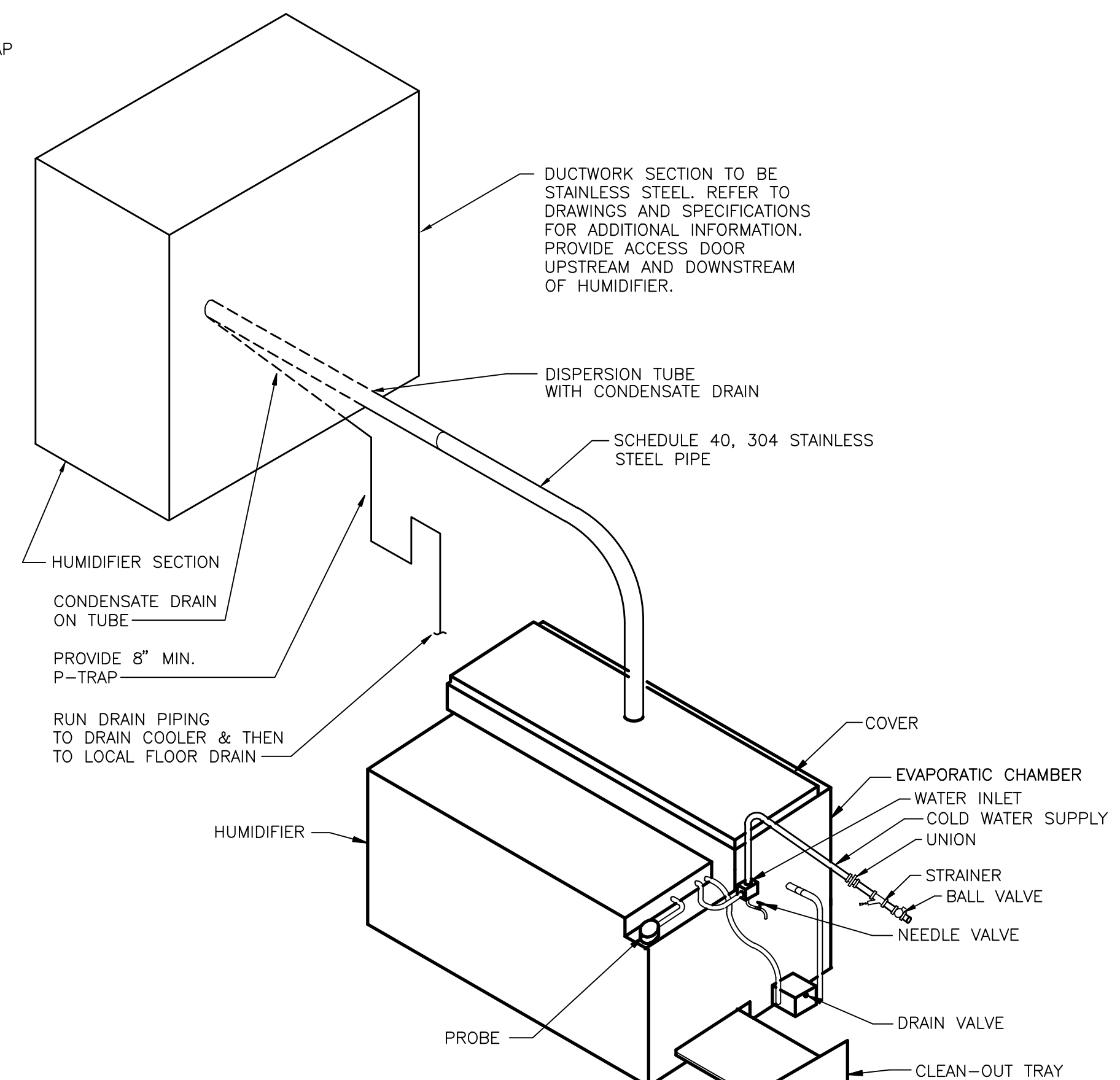
**RADIANT PANEL DETAIL**  
(NOT TO SCALE)



**RADIANT PANEL PIPING DETAIL**  
(NOT TO SCALE)

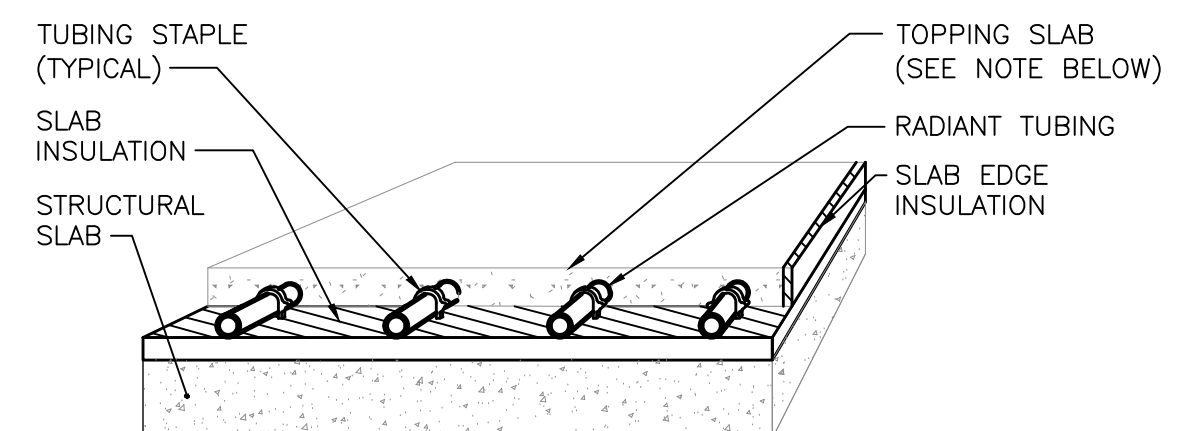


**STEAM HUMIDIFIER PIPING**  
(NOT TO SCALE)



- NOTE:
1. PROVIDE FILTER (AQUA PURE AP11T, WITH FILTER CARTRIDGE AP420) AT EACH COLD WATER CONNECTION TO EACH HUMIDIFIER.
  2. PROVIDE 45° ELBOWS FOR COPPER PIPING FROM HUMIDIFIER TO DISPERSION TUBE. PROVIDE INSULATION AS SPECIFIED.
  3. PROVIDE 1" DRAIN LINE TO FLOOR DRAIN.
  4. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION REQUIREMENTS.

**ELECTRIC HUMIFIER DETAIL**  
(NOT TO SCALE)



**RADIANT FLOOR HEATING SLAB ON SLAB OVER HIGH DENSITY INSULATION**  
(NOT TO SCALE)



- OWNER:  
Ramapo College of New Jersey  
505 Ramapo Valley Road  
Mahwah, New Jersey 07430-1630

- CONSTRUCTION MANAGERS:  
Cambridge Construction Management  
335 East Main Street  
Somerville, NJ 08876  
908-253-9500

- ARCHITECT:  
Mitchell/Giurgola Architects, LLP  
630 Ninth Avenue, Suite 711  
New York, New York 10036  
212 663 4000

- MEP ENGINEER:  
Joseph R. Loring & Associates, Inc.  
619 River Drive Center 1  
New York, NY 10001  
212 563 7400

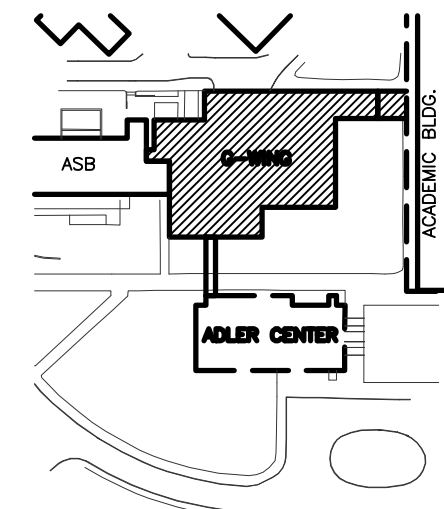
- STRUCTURAL ENGINEER:  
Yisrael A. Seiniuk PC  
228 East 45th Street 2nd Floor  
New York, NY 10017  
212 687 2233

- LANDSCAPE ARCHITECT:  
Dirtworks, PC  
200 Park Avenue South  
New York, NY 10003  
212 529 2263

- SITE CIVIL ENGINEER:  
Langan Engineering  
619 River Drive Center 1  
Elmwood Park, NJ 07407-1338  
201 794 6900

- AV CONSULTANT:  
Cerami & Associates  
404 Fifth Avenue  
New York, NY 10018  
212 370 1776

Key Plan:



6/8/12	DCA FILING
7/19/12	ISSUED FOR BID
1/15/13	ISSUED FOR CONSTRUCTION
8/12/16	AS-BUILT CONSTRUCTION DOCUMENTS

NR	DATE	COMMENTS
ISSUE/REVISION		

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

Project:  
**G-WING RENOVATION & ADLER CENTER**

Submission:  
**CONSTRUCTION DOCUMENTS**

Drawing Title:  
**MECHANICAL DETAILS SHEET No.4**

PROJECT NR: 102700	DATE: 6/8/12
RCH PROJ. NR: 08-240C	SCALE: NOT TO SCALE

**H7.04**