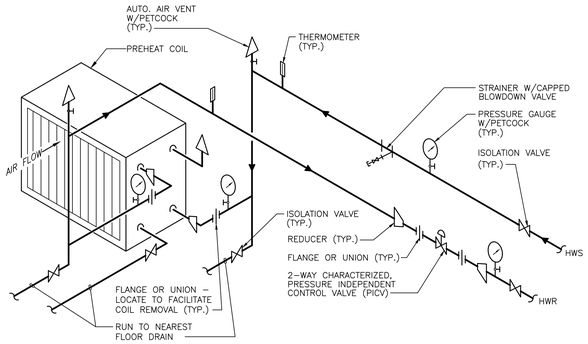
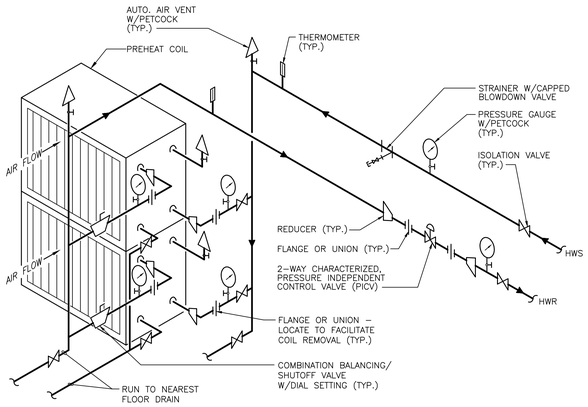


SINGLE COIL



MULTIPLE COILS

PIPE SIZING NOTES*:

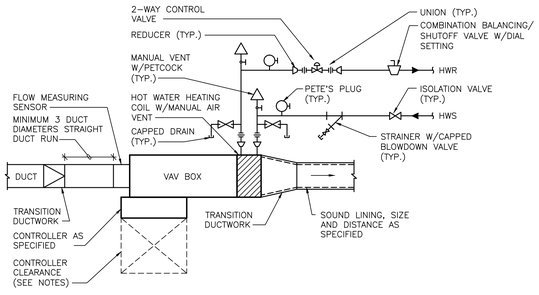
UP TO 40 GPM PER COIL: USE 2" HWS & HWR	91 TO 150 GPM PER COIL: USE 3" HWS & HWR
41 TO 90 GPM PER COIL: USE 2-1/2" HWS & HWR	151 TO 250 GPM PER COIL: USE 4" HWS & HWR

*COIL RUNOUT SIZES, INCLUDING VALVES AND FITTINGS.

NOTES:
1. PIPING SHALL NOT INTERFERE WITH COIL PULL SPACE.
2. REFER TO SPECIFICATIONS FOR VALVE TYPES.

HOT WATER PREHEAT COIL PIPING FOR SYSTEMS W/ GLYCOL

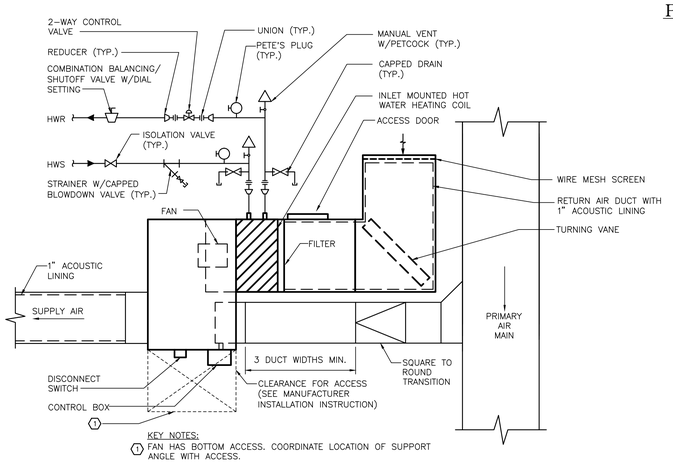
(NOT TO SCALE)



NOTES:
1. PROVIDE THERMOSTAT AND CONTROL WIRING FOR EACH VAV BOX.
2. PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO CONTROLLER.
3. REFER TO SPECIFICATIONS FOR VALVE TYPES.
4. INSTALLATION SIMILAR TO VAV/CV BOXES WITHOUT REHEAT COIL.

TYPICAL TERMINAL VAV/CV BOX WITH HOT WATER HEATING COIL

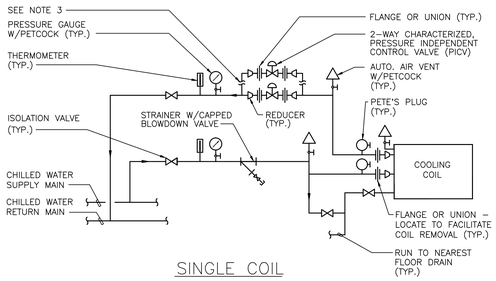
(NOT TO SCALE)



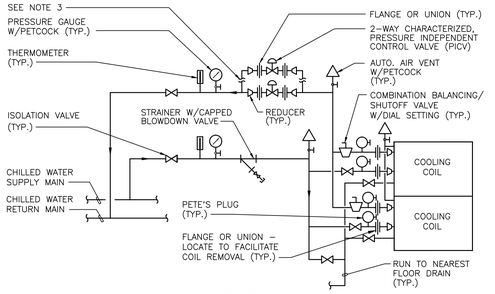
KEY NOTES:
(1) FAN HAS BOTTOM ACCESS. COORDINATE LOCATION OF SUPPORT ANGLE WITH ACCESS.

PARALLEL FAN POWERED VAV (FPVAV) WITH HOT WATER COIL

(NOT TO SCALE)



SINGLE COIL



MULTIPLE COILS

PIPE SIZING NOTES*:

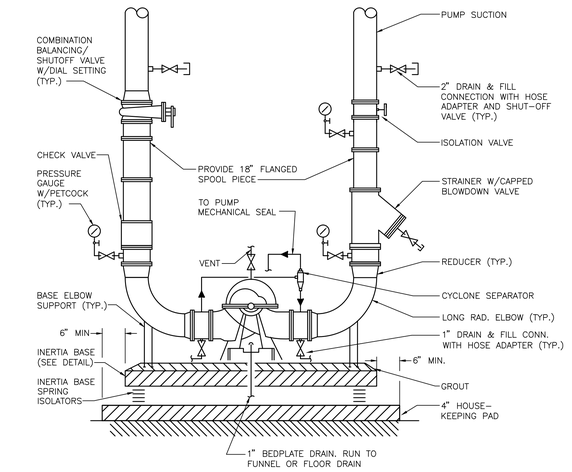
UP TO 40 GPM PER COIL: USE 2" CHWS & CHWR	91 TO 150 GPM PER COIL: USE 3" CHWS & CHWR
41 TO 90 GPM PER COIL: USE 2-1/2" CHWS & CHWR	151 TO 250 GPM PER COIL: USE 4" CHWS & CHWR

*COIL RUNOUT SIZES, INCLUDING VALVES AND FITTINGS.

NOTES:
1. PIPING SHALL NOT INTERFERE WITH COIL PULL SPACE.
2. REFER TO SPECIFICATIONS FOR VALVE TYPES.
3. PROVIDE QUANTITY OF PICV, PIPED IN PARALLEL, AS REQUIRED TO MEET COIL GPM REQUIREMENTS.
4. DOUBLE CIRCUIT COILS HAVE (2) WATER INLETS AND (2) WATER OUTLETS PER COIL. PROVIDE COMBINATION BALANCING/SHUTOFF VALVE W/DIAL SETTING, PETE'S PLUG, UNION AND REDUCER FOR EACH WATER OUTLET. PROVIDE ISOLATION VALVE, PETE'S PLUG, UNION AND REDUCER FOR EACH WATER INLET.

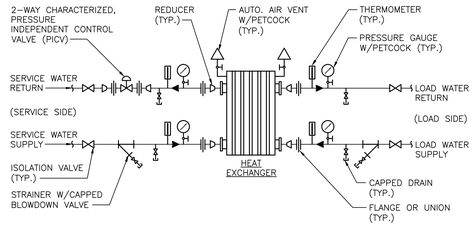
TYPICAL PIPING CONNECTIONS TO COOLING COILS

(NOT TO SCALE)



DOUBLE SUCTION HORIZONTALLY SPLIT CASE PUMP

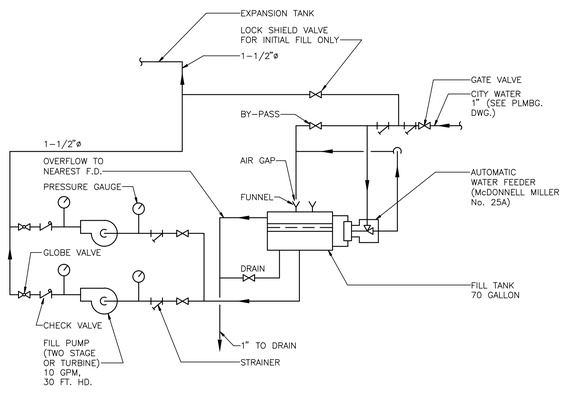
(NOT TO SCALE)



NOTES:
1. INSTALL HEAT EXCHANGER ON INERTIA BASE WITH VIBRATION ISOLATORS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

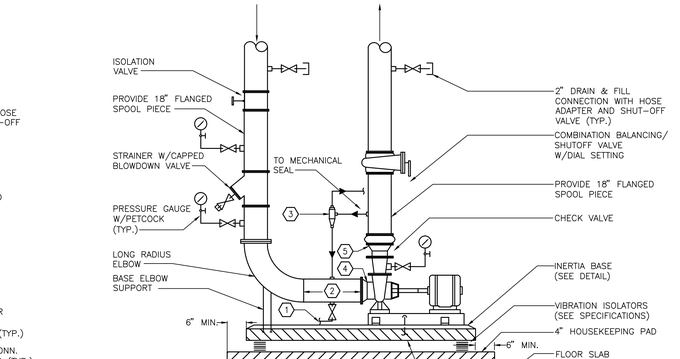
PLATE AND FRAME HEAT EXCHANGER CONNECTION DETAIL

(NOT TO SCALE)



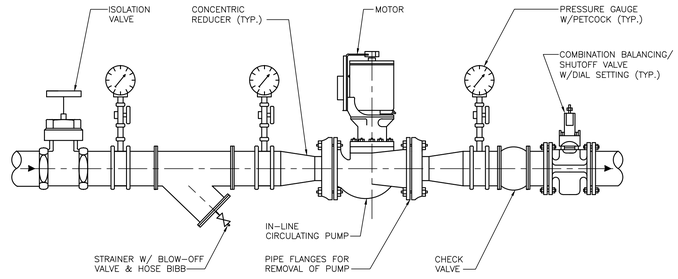
GLYCOL EXPANSION TANK MAKE-UP WATER SYSTEM

(NOT TO SCALE)



END SUCTION PUMP

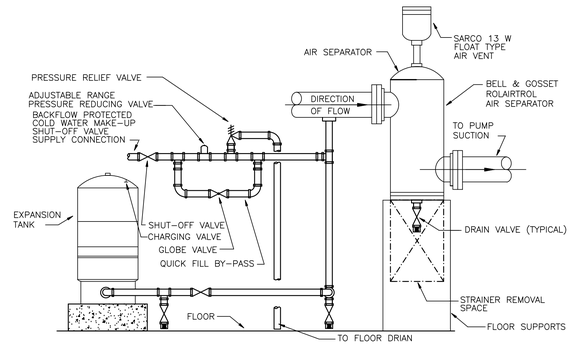
(NOT TO SCALE)



NOTES:
1. REFER TO SPECIFICATIONS FOR VALVES & SPECIALTIES
2. SUPPORT PUMP INDEPENDENTLY OF PIPING

IN-LINE PUMP HOOK-UP

(NOT TO SCALE)



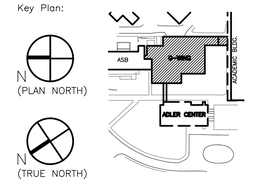
CLOSED LOOP AIR-SEPARATOR AND DIAPHRAM TYPE EXPANSION TANK CONNECTIONS DETAIL

(NOT TO SCALE)

RAMAPO COLLEGE OF NEW JERSEY

- 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.
  21 Pennsylvania Plaza
  New York, NY 10001
  212 563 7400
- STRUCTURAL ENGINEER:
  Ysrael A Seinuk 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:



№	DATE	COMMENTS
	6/8/12	DCA FILING
	7/19/12	ISSUED FOR BID
	1/15/13	ISSUED FOR CONSTRUCTION
	8/12/16	AS-BUILT CONSTRUCTION DOCUMENTS

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.5

PROJECT №:	102700	DATE:	6/8/12
RCNJ PROJ. №:	08-240C	SCALE:	NOT TO SCALE

H7.05

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