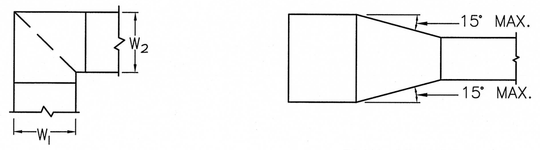


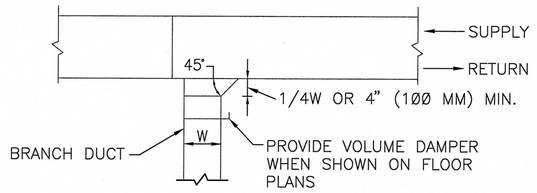
PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION

NOTES:

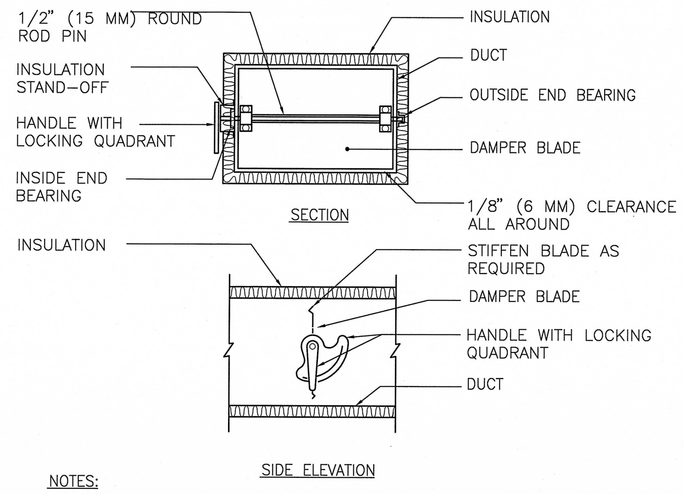
1. ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W_1 DOES NOT EQUAL W_2 VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE VANES SHALL HAVE A 2" (50 MM) RADIUS, 1 1/2" (40 MM) MAXIMUM SPACE BETWEEN VANES AND A 3/4" (20 MM) TRAILING EDGE.
4. WHEN W EQUALS W_1 AND W_2 IS GREATER THAN 20" (500 MM) VANES SHALL BE DOUBLE VANE TYPE.

1 H6.1 DUCTWORK SQUARE VANED ELBOWS AND TRANSITION DETAILS



PLAN VIEW

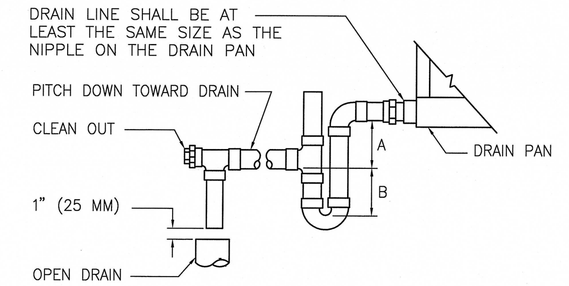
2 H6.1 SUPPLY OR RETURN BRANCH DUCTWORK



NOTES:

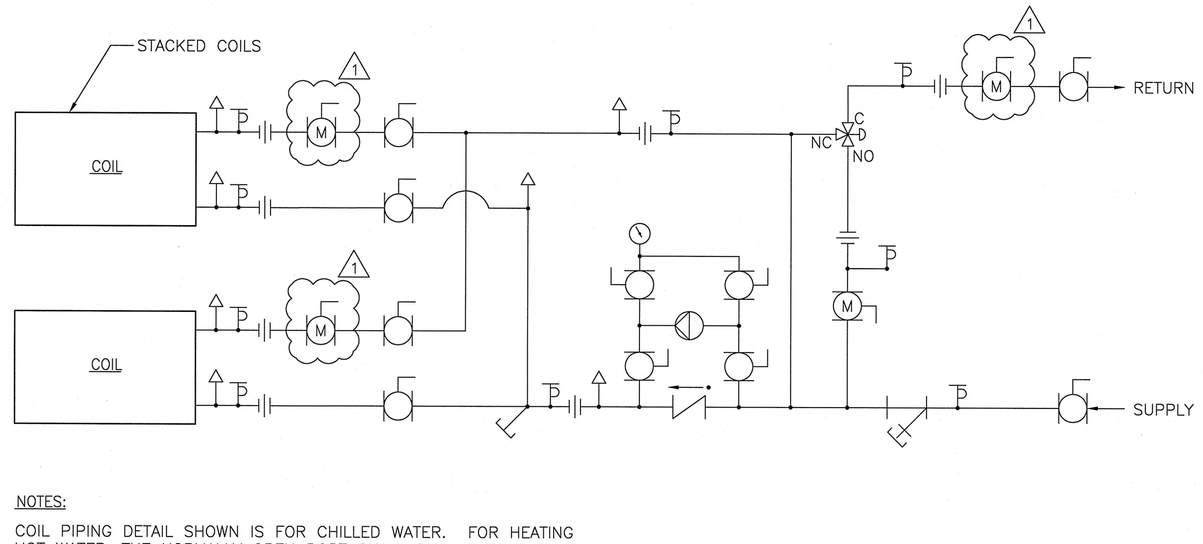
1. DELETE INSULATION STAND–OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI–BLADE DAMPERS & ROUND DAMPERS.

3 H6.1 VOLUME DAMPER DETAIL



UNIT TYPE	A	B
DRAW THRU	5"	4"

4 H6.1 AIR HANDLING UNIT DRAIN TRAP DETAIL



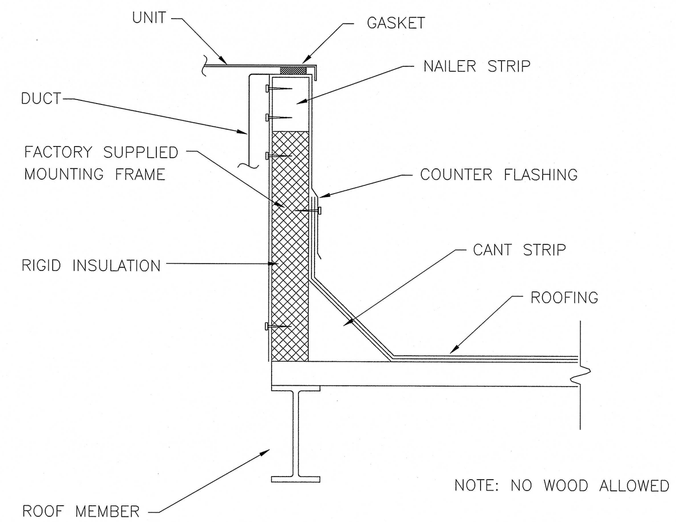
NOTES:

COIL PIPING DETAIL SHOWN IS FOR CHILLED WATER. FOR HEATING HOT WATER, THE NORMALLY OPEN PORT SHALL BE OPEN TO THE HOT WATER COIL.

5 H6.1 COIL PIPING DETAIL

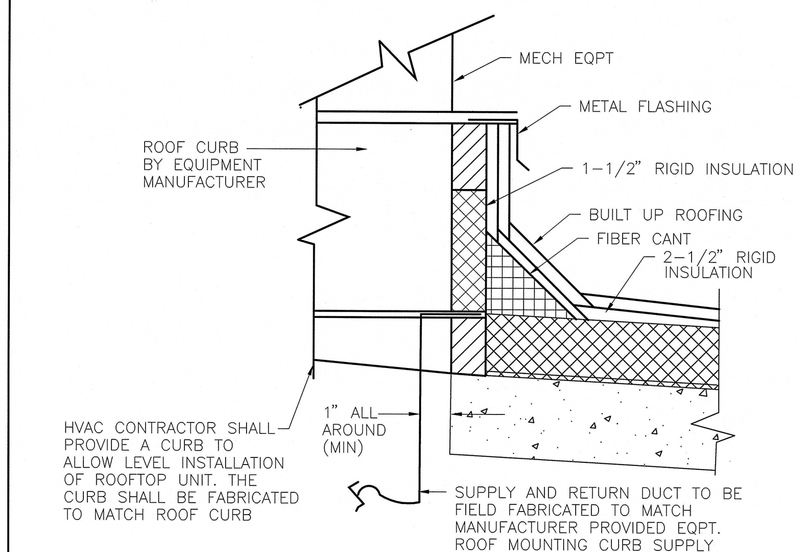
LEGEND:

- Y–STRAINER WITH HOSE END DRAIN VALVE WITH CAP AND CHAIN
- BALL VALVE
- CALIBRATED BALANCING VALVE
- P/T PLUG
- MANUAL AIR VENT
- UNION
- THREE WAY AUTOMATIC TEMPERATURE CONTROL (ATC) VALVE
- 3/4" HOSE END DRAIN VALVE WITH CAP AND CHAIN
- PUMP



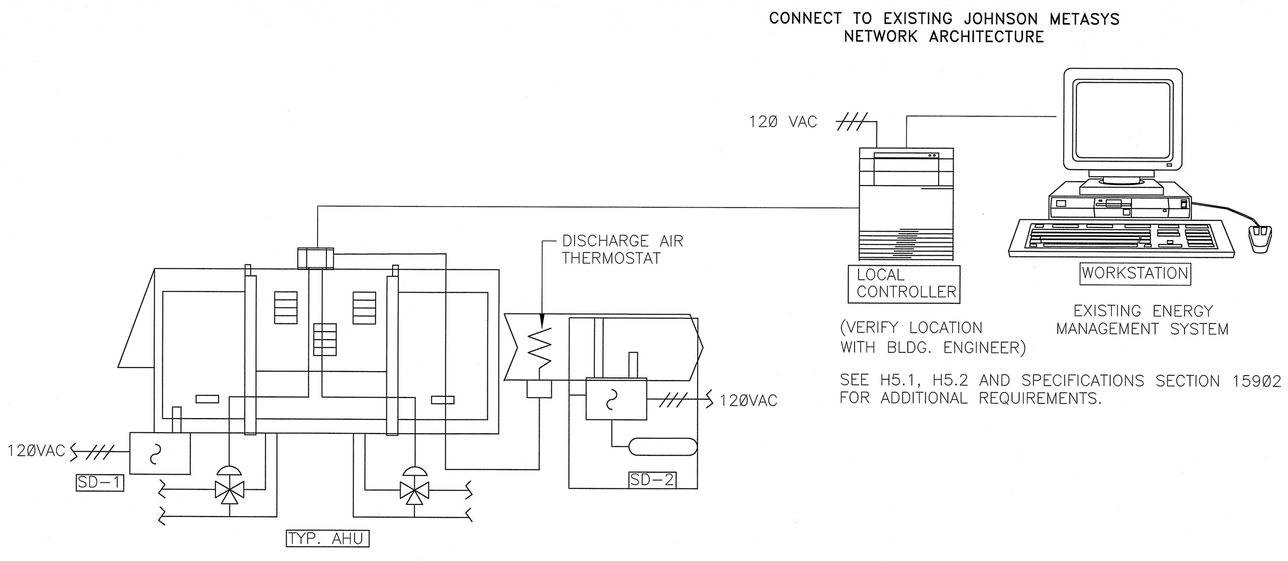
6 H6.1 EQUIP. MOUNTING DETAIL

SCALE: NONE



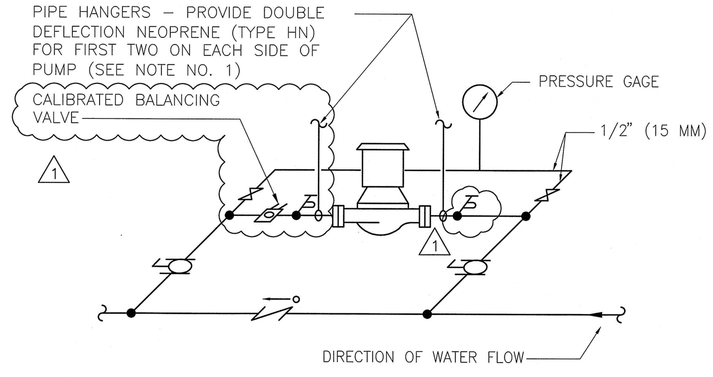
7 H6.1 DUCT ROOF PENETRATION DETAIL

SCALE: NONE



8 H6.1 TEMPERATURE CONTROLS

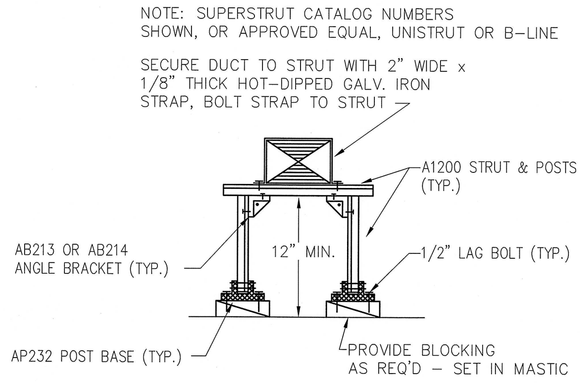
SCALE: NONE



NOTE:

1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR.

9 H6.1 TYPICAL PIPING CONNECTIONS TO IN-LINE WATER PUMPS



10 H3.3 H6.1 RECTANGULAR DUCT SUPPORT

SCALE: NONE

REGISTERED PROFESSIONAL ENGINEER — DANE R. ALT — M 34008 — EXP. 3/31/10 — MECHANICAL — STATE OF CALIFORNIA

K.F. DAVIS ENGINEERING, INC
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Revisions: 1 DATED 11/10/08	Drawing Title: MECHANICAL DETAILS	Project Title: BLDG 650 REPLACE AIR HANDLERS 1 THRU 4, 7 AND 9 – 15	Date: 08/25/08
Approved:	Approved: Medical Center Director	Drawn: RMK	Project No.: 612A4–07–342
Approved:	Approved: Chief, Engineering Service	Checked: KL	Building Number:
		Location: MATHER VAMC MATHER CALIFORNIA	DRAWING No. H6.1 Dwg. Of

Department of Veterans Affairs

SCALE: 3/4"=1'–0" 1/2"=1'–0" 1/4"=1'–0" 1/8"=1'–0"

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