

1ST FLOOR ROOF ABOVE RADIOLOGY 0' 5' 10'

A HWH SUP & RET INSULATION SCHEDULE See Specification 23 21 13 HYDRONIC PIPING

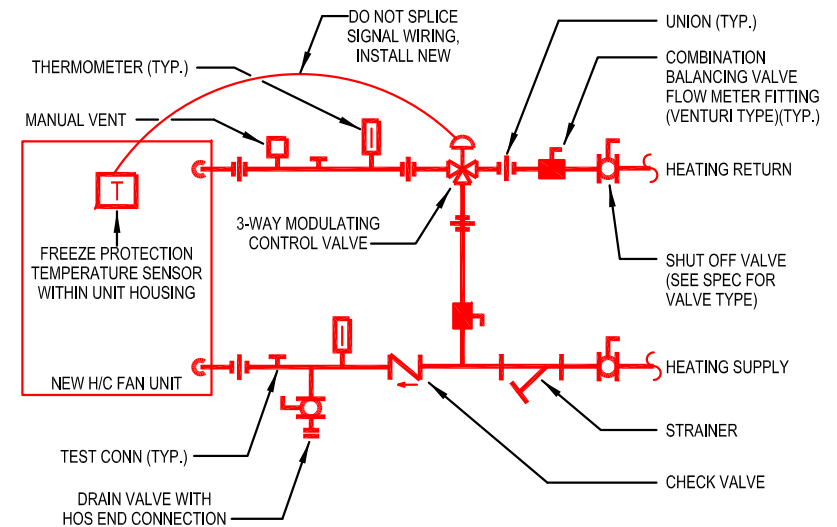
SYSTEM	PIPE SIZE	INSULATION	THICK	MAX K @ 75 F	JACKET	NOTES
HOT WATER HEATING UP TO 200 DEG F	1-1/2" & SMALLER	RIGID FIBERGLASS	1"	0.23	ASJ	1 & 2
	2" & LARGER	RIGID FIBERGLASS	2"	0.23	ASJ	1 & 2

Include Aluminum Jacket, ASTM B209, 3003 Alloy, H-14 Temper, 0.023 inch min thickness, with Locking Longitudinal Joints. Jackets for elbows, tees and other fittings shall be factory fabricated to match shape of fitting, and of 0.024 inch min thickness Aluminum. Fittings shall be of same construction as straight run jackets but need not be of the same alloy. Factory fabricated Stainless Steel Bands shall be installed on circumference joints. Bands shall be 0.75 inch wide on 18 inch centers. System shall be weatherproof for outside service.

ASJ (All Service Jacket) shall include Vapor Retarder.

ADDITIONAL PIPING per Specification 23 21 13 HYDRONIC PIPING

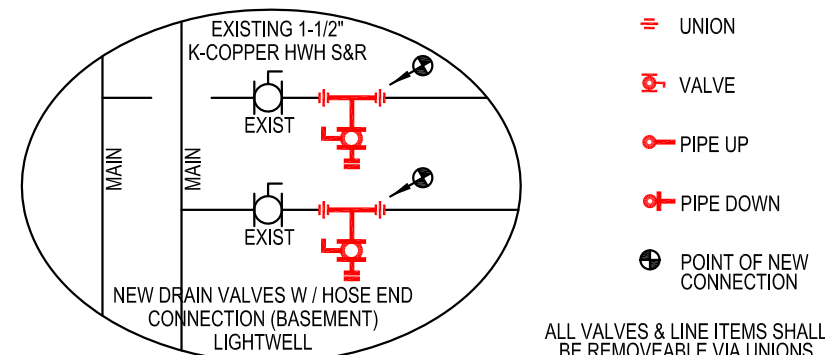
- B** New PVC Drain Pipe. Include disconnect at Trap inside new unit. (VA may need to fill Trap with antifreeze).
- C** New Piping between Condenser and Fan. Include all Valves & Line Items per manufacturer. Insulate per above.
- D** New insulated piping tie-in on re-located condenser for existing Liebert Unit in Radiology. Same size.



DETAIL 'B': EXISTING HEATING WATER COIL CONNECTIONS

NO SCALE

- Existing may be re-used. Demo & install new piping as reqd for tie-into new HVAC. If any item can't be re-used, install new.
- Coordinate installation of piping to allow for full access to new and existing equipment.
- Where Flow Meter Fittings integral with Balancing Valve are not available, provide separate Flow Meter Fittings.



DETAIL 'A': NEW HWH DRAIN VALVES

NO SCALE

ALL WORK IN CANTEN SHALL BE DONE AFTER 4:30PM OR ON WEEKENDS

Revisions	Date



James E. Van Zandt
Department Of Veterans
Affairs Medical Center

Drawing Title HVAC PIPE - NEW WORK	Project Title INSTALL A/C CANTEN KITCHEN	Date
Approved: Division Chief	Building Number	Checked
Approved: Service Director	Location VAMC Altoona, Pennsylvania	Drawn
Project No.		DRAWING NO. H-3
Dwg. 3 of 8		VAMC