CIRCULATING PUMP SCHEDULE

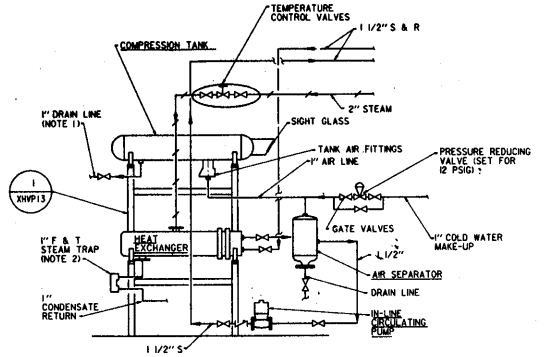
NO.	SYSTEM SERVED	DISCHARGE SIZE	SUCTION SIZE	G.P.M.	FEET HEAD	H.P.	SEE NOTE
1	HEATING SYSTEM - ZONE 1	1 1/2"	1 1/2"	18.3	25	1/2	1,2
1	HEATING SYSTEM - ZONE 2	1 1/2"	1 1/2"	20.4	28	1/2	1,2
1	HEATING SYSTEM - ZONE 3	1 1/2"	1 1/2"	23.4	33	1/2	1,2
1	HEATING SYSTEM - ZONE 4	1 1/2"	1 1/2"	23.7	33	1/2	1,2

NOTES:

1. PUMP MOTOR: 460 VOLTS, 3 PHASE, 60 HERTZ, 1750 RPM.
2. PUMP SHALL BE IN-LINE ARRANGEMENT.

HEAT EXCHANGER SCHEDULE

NO.	SYSTEM SERVED	TUBE CAPACITY G.P.M.	TUBE CAPACITY ENTERING WATER TEMP.	TUBE CAPACITY LEAVING WATER TEMP.	TUBE CAPACITY HEAD LOSS FT.	SHELL CAPACITY STEAM PRESSURE	SHELL CAPACITY ENTERING WATER TEMP.	SHELL CAPACITY LEAVING WATER TEMP.	SHELL CAPACITY HEAD LOSS FT.	SHELL CAPACITY G.P.M.	SQUARE FT. HEATING SURFACE	DIAMETER	LENGTH
HS-1	HEATING SYSTEM - ZONE 1	18.3	160	200	1.7	15 PSIG	—	—	—	—	17.4	6"	4'-0"
HS-1	HEATING SYSTEM - ZONE 2	20.4	160	200	1.7	15 PSIG	—	—	—	—	17.4	6"	4'-0"
HS-1	HEATING SYSTEM - ZONE 3	23.4	160	200	2.9	15 PSIG	—	—	—	—	17.4	6"	4'-0"
HS-1	HEATING SYSTEM - ZONE 4	23.7	160	200	2.9	15 PSIG	—	—	—	—	17.4	6"	4'-0"
HW-1	HEATING SYSTEM - ZONE 1	9.9	350	270	1.0	—	160	200	1.5	18.3	12.7	6"	3'-0"
HW-1	HEATING SYSTEM - ZONE 2	11.0	350	270	1.0	—	160	200	2.0	20.4	12.7	6"	3'-0"
HW-1	HEATING SYSTEM - ZONE 3	12.7	350	270	1.0	—	160	200	2.5	23.4	12.7	6"	3'-0"
HW-1	HEATING SYSTEM - ZONE 4	12.9	350	270	1.0	—	160	200	2.5	23.7	12.7	6"	3'-0"
DS-1	HEATING SYSTEM ZONE 1-4	6.4	40	140	1.0	15 PSIG	—	—	—	—	5.7	4"	4'-0"
DW-1	HEATING SYSTEM ZONE 1-4	15.0	350	270	1.0	—	40	140	1.0	6.4	5.7	4"	4'-0"



ALTERNATE HEATING SYSTEM PIPING DIAGRAM

NO SCALE (STEAM)

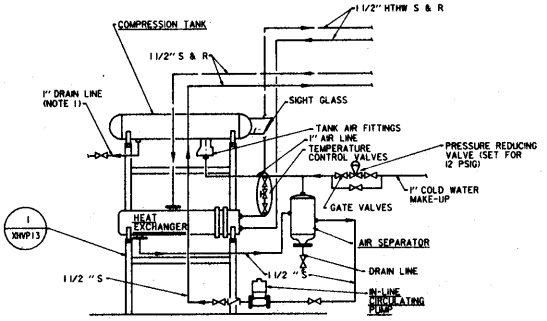
NOTES:

1. TERMINATE ALL DRAINS OVER NEAREST FLOOR DRAIN.
2. STEAM TRAP CAPACITIES:
   ZONE #1 = 387 LBS PER HOUR AT 15 PSIG.
   ZONE #2 = 430 LBS PER HOUR AT 15 PSIG.
   ZONE #3 = 493 LBS PER HOUR AT 15 PSIG.
   ZONE #4 = 501 LBS PER HOUR AT 15 PSIG.

MECHANICAL EQUIPMENT SCHEDULE

(CENTRAL STEAM OR HIGH TEMPERATURE HOT WATER)

1. STEAM PRESSURE REDUCING STATION: 125 PSIG. TO 15 PSIG. CAPACITY SHALL BE AS FOLLOWS:
   ZONE #1= 658 POUNDS/HOUR AT 15 PSIG.
   ZONE #2= 701 POUNDS/HOUR AT 15 PSIG.
   ZONE #3= 764 POUNDS/HOUR AT 15 PSIG.
   ZONE #4= 772 POUNDS/HOUR AT 15 PSIG.
2. HEAT EXCHANGERS: (SEE HEAT EXCHANGER SCHEDULE).
3. CONDENSATE PUMP: DUPLEX (ALL ZONES) 2960 SQ. FT. EDR CAPACITY, 6 GALLON RECEIVER, 6 GPM PUMP CAPACITY AT 50 PSIG DISCHARGE PRESSURE. 3500 RPM MOTOR, 1 HORSEPOWER, 460 VOLTS, 3 PHASE 60 HERTZ.
4. AIR SEPARATOR: 2" WITH STRAINER.
5. COMPRESSION TANK: ASME CONSTRUCTION, 125 PSIG DESIGN PRESSURE, 13" DIAMETER X 48" OVER HEADS. 24 GAL. CAPACITY.
6. CIRCULATING PUMP: (SEE CIRCULATING PUMP SCHEDULE).
7. AIR HANDLING UNIT: (SEE AIR HANDLING UNIT SCHEDULE ON HV7).



ALTERNATE HEATING SYSTEM PIPING DIAGRAM

NO SCALE (HIGH TEMPERATURE HOT WATER)

NOTE:

1. TERMINATE ALL DRAINS OVER NEAREST FLOOR DRAIN.

Symbol	Description	Date	Approved
	Revisions		

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ARCHITECT - ENGINEER DIVISION
GREENVILLE, SOUTH CAROLINA

US ARMY ENGINEER DIVISION HUNTSVILLE
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ARMY MOBILIZATION DESIGNS
US Army Corps of Engineers

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SCHEDULES & DIAGRAMS

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