HEAT EXCHANGER SCHEDULE

ITEM	MANUFACTURER	MODEL	DIAMETER	PASSES	LENGTH	CAPACITY MBH	CIRCULATING FLUID FLUID	GPM	EWT	LWT	TUBE VELOCITY FT./SEC.	STEAM PSIG MAX. PD. FT.	ENT. CONTROL VALVE	ENT. HX	CONTROL VALVE LB/HR	REMARKS
HX-1	BELL AND GOSSETT	SU 145-2	14	2	70-3/8"	5,375	WATER	550	180	160	2.18	6.48	10	5	5,600	NOTES 1, 2
HX-2	BELL AND GOSSETT	SU 145-2	14	2	70-3/8"	5,375	WATER	550	180	160	2.18	6.48	10	5	5,600	NOTES 1, 2

NOTES:
1. EACH HEAT EXCHANGER IS SIZED FOR 100% OF THE TOTAL BUILDING HEATING LOAD.
3. ALL HEAT EXCHANGERS ARE LOCATED IN PENTHOUSE.

CABINET HEATER SCHEDULE

ITEM	MANUFACTURER	MODEL	SIZE	LOCATION	CFM	EWT	LWT	MBH	GPM	MOTOR DATA HP	V	PH	RPM	REMARKS
CUH-1	STERLING	RC-1200	6	GROUND FLOOR NORTH VESTIBULE	505	180	160	34.1	3.0	1/10	115	1	875	NOTES 1, 3, 4
CUH-2	STERLING	RC-1200	6	GROUND FLOOR SOUTH-WEST ENTRANCE	505	180	160	34.1	3.0	1/10	115	1	875	NOTES 1, 3, 4
CUH-3	STERLING	F	2	GROUND FLOOR SOUTH VESTIBULE	195	180	160	12.8	1.5	1/15	115	1	875	NOTES 1,2

NOTES:
1. UNIT IS SELECTED FOR LOW SPEED OPERATION. PROVIDE FILTER.
2. UNIT IS FLOOR MOUNTED.
3. UNIT IS RECESSED IN CEILING WITH BOTTOM INLET OPTION.
4. COORDINATE FILTER ACCESS DOOR WITH REFLECTED CEILING GRID FOR CLEARANCE/ACCESS.

STEAM HUMIDIFIER SCHEDULE

ITEM	MANUFACTURER	MODEL	LOCATION	CFM	NO. OF MANIFOLDS	ENT AIR F DB	ENT AIR F RH	INDOOR AIR F DB	INDOOR AIR F RH	STEAM PSIG	FACE DIMENSION (IN) WIDTH	FACE DIMENSION (IN) HEIGHT	LBS/HR	MIN. ABSORB. DISTANCE	REMARKS
SH-T1	DRI STEEM	MINI BANK	NICU'S	400	1	55	30	75	50	5	12	8	10.7	24	
SH-T2	DRI STEEM	MINI BANK	NURSERY	600	1	55	30	75	50	5	14	8	16.5	24	
SH-T3	DRI STEEM	MINI BANK	C-SECTION	1800	2	55	30	75	50	5	24	14	37.0	24	

HUMIDIFIERS INDICATE TYPICAL SELECTION FOR ALL ROOMS OF THE SAME TYPE

PUMP SCHEDULE

ITEM	MANUFACTURER	MODEL	SIZE	TYPE	GPM	FEET HEAD	MOTOR DATA HP	V	PH	RPM	REMARKS
P-1	BELL & GOSSETT	1510	2-1/2BB	END-SUCTION	275	60	10.0	460	3	1750	PRIMARY HOT WATER PUMP
P-2	BELL & GOSSETT	1510	2-1/2BB	END-SUCTION	275	60	10.0	460	3	1750	PRIMARY HOT WATER PUMP
P-3	BELL & GOSSETT	1510	2-1/2BB	END-SUCTION	275	60	10.0	460	3	1750	STANDBY HOT WATER PUMP
P-4	BELL & GOSSETT	SERIES 80	2-1/2x2-1/2x9-1/2B	INLINE	120	60	7.5	460	3	1750	VARIABLE HOT WATER PUMP
P-5	BELL & GOSSETT	SERIES 80	2-1/2x2-1/2x9-1/2B	INLINE	120	60	7.5	460	3	1750	VARIABLE HOT WATER PUMP

NOTES:
1. PUMPS P-1, P-2 AND P-3 SHALL BE PROVIDED WITH WITH 9.375 INCH IMPELLER.
2. PUMPS P-3 AND P-4 SHALL BE PROVIDED WITH WITH 9 INCH IMPELLER.

EXPANSION TANK SCHEDULE

ITEM	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	GAL. CAP.	INITIAL FILL PRESSURE	SIZE LENGTH	SIZE DIAMETER	REMARKS
ET-100	BELL AND GOSSETT	B-800	PENTHOUSE	HOT WATER	BLADDER	211	-	83	30	

NOTES:

CONDENSATE PUMP/RECEIVER SCHEDULE

ITEM	MANUFACTURER	MODEL	TYPE UNIT	GPM	PRESSURE PSIG	INLET CONN	DISCHARGE CONN	RECEIVER CAP. GAL.	ELECTRICAL DATA VOLTS	PH	HZ	MOTOR	REMARKS
CP-1	BELL AND GOSSETT	75CB60-60	DUPLEX	60	60	4"	2"	60	460	3	60	(2) 5HP	1,6,7
CP-2	BELL AND GOSSETT	23CB9-60	DUPLEX	9	60	2"	1-1/2"	23	460	3	60	(2) 3HP	2,6,7
CP-3	BELL AND GOSSETT	23CB9-60	DUPLEX	9	60	2"	1-1/2"	23	460	3	60	(2) 3HP	3,6,7
CP-4	BELL AND GOSSETT	23CB9-60	DUPLEX	9	60	2"	1-1/2"	23	460	3	60	(2) 3HP	4,6,7
CP-5	BELL AND GOSSETT	23CB9-60	DUPLEX	9	60	2"	1-1/2"	23	460	3	60	(2) 3HP	5,6,7
CP-6	BELL AND GOSSETT	23CB9-60	DUPLEX	9	60	2"	1-1/2"	23	460	3	60	(2) 3HP	6,7,8
CP-7	BELL AND GOSSETT	23CB9-60	DUPLEX	9	60	2"	1-1/2"	23	460	3	60	(2) 3HP	6,7,9
CP-8	BELL AND GOSSETT	120CB75-50	DUPLEX	75	50	4"	2"	120	460	3	60	(2) 5HP	6,7,10,11

NOTES:

1. SERVES PHC-1, PHC-2, DHWH-1, HX-1, HX-2
2. SERVES PHC-3
3. SERVES PHC-4 USG-1
4. SERVES PHC-5
5. SERVES PRV-2 EOM DRIP
6. PROVIDE 4" CONCRETE PAD.
7. COORDINATE HEIGHT OF LPR PIPING FROM VARIOUS PIECES OF EQUIPMENT FOR PROPER GRAVITY CONNECTION TO CONDENSATE RECEIVER.
8. SERVES HPS END OF MAIN DRIP, LOCATED IN SUB-BASEMENT, SHMT-B.
9. SERVES HPS END OF MAIN DRIP, LOCATED IN SUB-BASEMENT TUNNEL.
10. LOCATED IN THE L.L. BEAN. SMT. REPLACES THE EXISTING UNIT.
11. CP-8 IS ADDED TO THIS PROJECT INSTEAD OF RELOCATING THE EXISTING UNIT. CP-8 IS THE SAME UNIT CP-XX, WHICH IS NOW DELETED FROM THE CENTRAL UTILITY PROJECT.

FLASH TANK SCHEDULE

ITEM	MANUFACTURER	MODEL	LOCATION	INLET SIZE	OUTLET SIZE	DRAIN SIZE	VENT SIZE	LENGTH	DIAMETER	REMARKS
FT-1	SPIRAX SARCO	PMO	SUB BSMT	2-1/2"	2-1/2"	1-1/2"	2"	38.6"	6"	
FT-2	SPIRAX SARCO	PMO	SUB BSMT	2-1/2"	2-1/2"	1-1/2"	2"	38.6"	6"	
FT-3	SPIRAX SARCO	PMO	PENTHOUSE	2-1/2"	2-1/2"	1-1/2"	2"	38.6"	6"	
FT-4	SPIRAX SARCO	PMO	PENTHOUSE	2-1/2"	2-1/2"	1-1/2"	2"	38.6"	6"	

PRESSURE REDUCING VALVE SCHEDULE

ITEM	MANUFACTURER	MODEL	SIZE	STEAM PRESSURE INLET	STEAM PRESSURE OUTLET	CAPACITY LBS/HR	BYPASS VALVE	PIPE SIZES D1	PIPE SIZES D2	REMARKS
PRV-1	SPENCE	ED	4	100	50	15660	4	6	6	1,2
PRV-2	SPENCE	ED	5	50	10	15660	6	6	10	1,2
PRV-3	SPENCE	ED	4	100	50	16000	4	4	6	2,3
PRV-4	SPENCE	ED	4	50	10	10860	4	4	10	2,3

NOTES:

1. LOCATED IN NEW PENTHOUSE(5TH FLOOR)
2. PROVIDE PRV'S WITH MUFFLING ORIFICE AND NOISE SUPPRESSORS. SEE DETAILS AND PIPING SCHEMATIC FOR ACCESSORIES.
3. LOCATED IN L.L. BEAN SUB-BSMT MECHANICAL ROOM

AIR SEPERATOR SCHEDULE

ITEM	MANUFACTURER	MODEL	GPM	SIZE LENGTH	SIZE DIAMETER	REMARKS
AS-1	BELL & GOSSETT	R-6	700	42-3/4"	18"	HOT WATER

NOTES:

RADIANT PANEL SCHEDULE

ITEM	MANUFACTURER	MODEL	BTU/FT	PANEL DIMENSION LENGTH (FT.)	PANEL DIMENSION WIDTH (IN.)	WATER DATA EWT	LWT	GPM	P.D.(FT.)	REMARKS
RP-1	AIRTEX	-	303	SEE FLR PLNS	18	180	160	NOTE 1	NOTE 1	
RP-2	AIRTEX	-	289	SEE FLR PLNS	12	180	160	NOTE 1	NOTE 1	

NOTES:
1. GPM AND PRESSURE DROP ARE DEPENDENT UPON LENGTH OF PANEL RUN. SEE FLOOR PLANS FOR GPMS AND PD.

HOT WATER UNIT HEATER SCHEDULE

ITEM	MANUFACTURER	MODEL	LOCATIONS	CFM	EWT	LWT	MBH	GPM	MOTOR DATA HP	V	PH	RPM	REMARKS
UH-1	STERLING	HS-84	PENTHOUSE	1400	180	160	52.3	5.3	1/20	120	1	1050	
UH-2	STERLING	HS-84	PENTHOUSE	1400	180	160	52.3	5.3	1/20	120	1	1050	
UH-3	STERLING	HS-84	PENTHOUSE	1400	180	160	52.3	5.3	1/20	120	1	1050	
UH-4	STERLING	HS-84	PENTHOUSE	1400	180	160	52.3	5.3	1/20	120	1	1050	
UH-5	STERLING	HS-84	PENTHOUSE	1400	180	160	52.3	5.3	1/20	120	1	1050	
UH-6	STERLING	HS-84	PENTHOUSE	1400	180	160	52.3	5.3	1/20	120	1	1050	
UH-7	STERLING	HS-84	PENTHOUSE	1400	180	160	52.3	5.3	1/20	120	1	1050	
UH-8	STERLING	HS-84	PENTHOUSE	1400	180	160	52.3	5.3	1/20	120	1	1050	
UH-9	STERLING	HS-48	BSMT NORTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-10	STERLING	HS-48	BSMT NORTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-11	STERLING	HS-48	BSMT NORTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-12	STERLING	HS-48	BSMT NORTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-13	STERLING	HS-48	BSMT NORTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-14	STERLING	HS-48	BSMT SOUTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-15	STERLING	HS-48	BSMT SOUTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-16	STERLING	HS-48	BSMT SOUTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-17	STERLING	HS-48	BSMT SOUTH	750	180	160	29.9	3	1/30	120	1	1050	
UH-18	STERLING	HS-48	BSMT SOUTH	750	180	160	29.9	3	1/30	120	1	1050	

NOTES:

STEAM BLOWDOWN SEPERATOR SCHEDULE

ITEM	MANUFACTURER	MODEL	LOCATION	STEAM BLOW-DOWN INLET SIZE	DRAIN SIZE	VENT SIZE	C.W. INLET SIZE	SEPARATOR DIAMETER	REMARKS
SBS-1	CLEAVER BROOKS	-	PENTHOUSE	1-1/2"	3"	4"	1"	14"	1,2

NOTES:

1. SIZED TO HANDLE THE BLOWDOWN FROM USG-1.
2. SEE CLEAN STEAM SCHEMATIC AND DETAIL ON DETAIL SHEET FOR PIPING ARRANGEMENT INFORMATION

CONTROL AIR COMPRESSOR SCHEDULE

ITEM	MANUFACTURER	MODEL	SCFM	PRESSURE	ELECTRICAL DATA HP	VOLTS	PH	HZ	RECEIVER CAP. GAL.	WORK PRESS.	REMARKS
CAC-1	INGERSOLL RAND	T30-		75	(2) 5 HP	460	3	60		125	1,2,3,4,5

NOTES:

1. DUPLEX 2 STAGE RECIPROCATING TYPE. PROVIDE WITH REFRIGERATED DRYERS.
2. PROVIDE 2 PRESSURE REGULATING VALVES AND SAFETY RELIEF VALVES. SEE DETAIL.
3. CAC-1 DIMENSIONS: X X
4. PROVIDE MOTOR STARTERS AND AUTOMATIC ALTERNATOR.

HOT WATER FIN-TUBE RADIATION SCHEDULE

ITEM	MANUFACTURER	MODEL	ELEMENT DIMENSIONS TUBE SIZE	FIN SIZE	FINS/FT	TOT. LENGTH	WATER DATA AVG WTR TEMP	MBH	GPM	REMARKS
FT-1	STERLING	B-S140R	1-1/4"	0.024"	8	580	170	203	20	GRD FLR OVERHANG
FT-2	STERLING	B-S140R	1-1/4"	0.024"	8	215	170	75	7.5	2ND FLR OVERHANG

AHU AIR FLOW STATION SCHEDULE

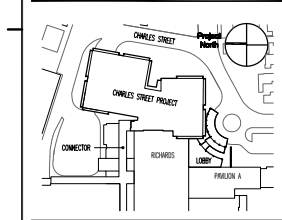
ITEM	MANUFACTURER	MODEL	CFM	P.D. (IN. W.G.)	SIZE	SYSTEM SERVED	VELOCITY FPM	REMARKS
AFS-6	AIR MONITOR	VOLU-PROBE VS	2000	< 0.9	30 X 16	SF-3	650	LOCATED IN BSMT
AFS-7	AIR MONITOR	VOLU-PROBE VS	1700	< 0.9	32 X 20	RF-3	425	LOCATED IN BSMT
AFS-8	AIR MONITOR	VOLU-PROBE VS	1500	< 0.9	40 X 18	SF-4	325	LOCATED IN BSMT
AFS-9	AIR MONITOR	VOLU-PROBE VS	1300	< 0.9	50 X 20	RF-4	250	LOCATED IN BSMT
AFS-10	AIR MONITOR	VOLU-PROBE VS	2000	< 0.9	40 X 18	SF-5	440	LOCATED IN BSMT
AFS-11	AIR MONITOR	VOLU-PROBE VS	1700	< 0.9	50 X 20	RF-5	280	LOCATED IN BSMT

General Notes:

MARK	ISSUE DATE	DESCRIPTION
PERMIT	09/24/04	PERMIT SET - NOT FOR CONSTRUCTION

FOR PERMIT ONLY - NOT FOR CONSTRUCTION

Issue Log



Key Plan

TRO
Architecture
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The Fitchlin Organization
50 Bridge Street
Newton, MA 02458-1134
617-965-0400

Maine Medical Center
Charles Street Project
Portland, Maine MMC Project No. 21841

Drawing Title
HVAC SCHEDULES

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Approved By	CM		
Filename	4673H701		

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