

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

### CHILLER SCHEDULE

UNIT No.	MANUFACTURER	MODEL	CAPACITY			EVAPORATOR					CONDENSER					ELECTRICAL DATA				NOISE RATING dBA AT FT.	WEIGHT		REMARKS		
			TONS	FULL LOAD (KW/TON)	N.P.L.V. (KW/TON)	E.E.R.	E.W.T. (DEG F.)	L.W.T. (DEG F.)	FLOW (GPM)	W.P.D. (FT.)	FOULING FACTOR	FLUID	E.W.T. (DEG F.)	L.W.T. (DEG F.)	FLOW (GPM)	W.P.D. (FT.)	FOULING FACTOR	FLUID	INPUT KW		PH	VOLTS		M.C.A.	M.O.C.P.
CH-1	TRANE	RTHC-200	200	-	-	-	61	45	300	-	-	-	-	-	-	-	-	179	3	480	-	-	9837	10554	FD CONTROL, WATER COOLED ROTARY SCREW CHILLER
CH-2	TRANE	CGAF-C30	30	1.04	-	11.5	57	45	60	5.0	-	-	-	N/A	N/A	N/A	31.3	3	480	65	-	3455	3450	AIR COOLED RECIPROCATING CHILLER (ALTERNATE)	

NOTES  
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### CLOSED CIRCUIT FLUID COOLER SCHEDULE

UNIT NO.	LOCATION	SERVING	MANUFACTURER	MODEL & SIZE	NOMINAL TONS	FLOW RATE GPM	FLUID	E.W.T. (DEG F.)	L.W.T. (DEG F.)	W.B.T. (DEG F.)	CONDENSER FAN DATA			SPRAY PUMP DATA			P.D.	TOTAL KW	PH	VOLTS	REMARKS
											NO.	HP	RPM	NO.	GPM	HP					
CT-1	PROCTOR HALL CHILLER PLANT	CH-1 & 2	BAC	VTL-103-K	200	400	WATER	100	85	-	(1)	15	1800	-	-	-	-	-	3	480	INTEGRAL SKW SUMP HEATER & VFD FAN SPEED CONTROL.

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### PUMP SCHEDULE

UNIT NO.	LOCATION	SERVING	MANUFACTURER	MODEL & SIZE	TYPE	GPM	HEAD FT.	FLUID	RPM	PUMP EFF.	IMP. SIZE IN.	BHP	CONTROL	ELEC. DATA			REMARKS
														MOTOR HP	VOLTS	PH	
CHWP-1	LOWER LEVEL MER	CHILLED WATER SYSTEM	BELL & GOSSETT	1510-3G	BASE MOUNTED	150	60	WATER	1150	64.4	11.875	3.53	VFD	7.5	480	3	PARALLEL OPERATION
CHWP-2	LOWER LEVEL MER	CHILLED WATER SYSTEM	BELL & GOSSETT	1510-3G	BASE MOUNTED	150	60	WATER	1150	64.4	11.875	3.53	VFD	7.5	480	3	PARALLEL OPERATION
CHWP-3	LOWER LEVEL MER	CH-2	BELL & GOSSETT	SERIES 80-1 1/2 X 1 1/2 X 7B	IN-LINE	60	45	WATER	1750	57.9	6.875	1.2	-	1.5	480	3	LEAD LAG OPERATION (ALTERNATE)
CHWP-4	LOWER LEVEL MER	CH-2	BELL & GOSSETT	SERIES 80-1 1/2 X 1 1/2 X 7B	IN-LINE	60	45	WATER	1750	57.9	6.875	1.2	-	1.5	480	3	LEAD LAG OPERATION (ALTERNATE)
MCHWP-1	LOWER LEVEL MER	MEDIUM TEMP CHILLED WATER SYSTEM	BELL & GOSSETT	1510-2G	BASE MOUNTED	230	60	WATER	1150	60.1	11.875	2.92	VFD	5	480	3	PARALLEL OPERATION
MCHWP-2	LOWER LEVEL MER	MEDIUM TEMP CHILLED WATER SYSTEM	BELL & GOSSETT	1510-2G	BASE MOUNTED	230	60	WATER	1150	60.1	11.875	2.92	VFD	5	480	3	PARALLEL OPERATION
HWP-1	LOWER LEVEL MER	HOT WATER SYSTEM	BELL & GOSSETT	1510-2G	BASE MOUNTED	100	60	WATER	1150	58.2	11.75	2.62	VFD	5	480	3	PARALLEL OPERATION
HWP-2	LOWER LEVEL MER	HOT WATER SYSTEM	BELL & GOSSETT	1510-2G	BASE MOUNTED	100	60	WATER	1150	58.2	11.75	2.62	VFD	5	480	3	PARALLEL OPERATION
HWP-3																	
HWP-4																	
HWP-5																	
HWP-6																	
FPHP-1	LOWER LEVEL MER	FREEZE PROTECTION (AHU-1)	BELL & GOSSETT	SERIES 80-2 1/2 X 2 1/2 X 7	IN-LINE	65	15	WATER	1150	63.4	6.375	0.39	-	0.75	480	3	-
FPHP-2	LOWER LEVEL MER	FREEZE PROTECTION (AHU-2)	BELL & GOSSETT	SERIES 80-2 1/2 X 2 1/2 X 7	IN-LINE	40	15	WATER	1150	53.8	6.0	.028	-	0.75	480	3	-
FPHP-3	LOWER LEVEL MER	FREEZE PROTECTION (AHU-3)	BELL & GOSSETT	SERIES 80-3 X 3 X 7	IN-LINE	95	15	WATER	1150	66.3	6.375	0.55	-	0.75	480	3	-
PCHWP-1	EXIST CHILLER PLANT	CH-1	BELL & GOSSETT	SERIES 80-4 X 4 X 47	IN-LINE	300	25	WATER	1750	73.3	6.375	2.6	-	3	480	3	PRIMARY CHILLED WATER PUMP
SCHWP-1	EXIST CHILLER PLANT	CH-1	BELL & GOSSETT	1510-3E	BASE MOUNTED	300	100	WATER	1750	73.4	10.375	10.4	VFD	15	480	3	SECONDARY CHILLED PUMP
CWP-1	EXIST CHILLER PLANT	CH-1	BELL & GOSSETT	1510-4BC	BASE MOUNTED	400	85	WATER	1750	76.2	11.0	11.3	-	15	480	3	CONDENSER WATER PUMP

NOTES  
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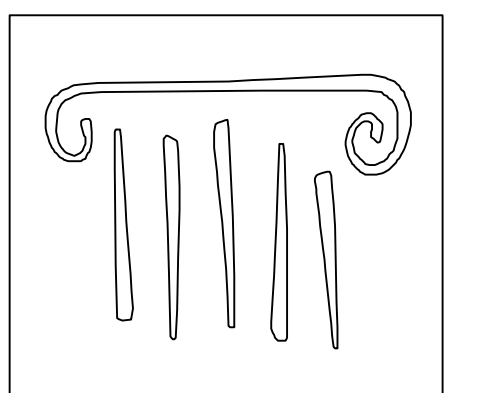
### CHILLED BEAM SCHEDULE

SYMBOL	MANUFACTURER	MODEL	WIDTH FT.	LENGTH FT.	CHILLED WATER				HOT WATER				PRIMARY AIR			CAPACITY COOLING (BTUH)			CAPACITY HEATING (BTUH)			THROW PATTERN	NOZZLE TYPE	NC	REMARKS	
					E.W.T.	L.W.T.	GPM	dP	E.W.T.	L.W.T.	GPM	dP	E.A.T.	CFM	dP	Q air	Q water	Q total	Q air	Q water	Q total					
ACB-A	TROX	-	2	4	57	62	-	-	140	110	-	-	55	-	-	-	-	-	-	-	-	-	-	-	-	-
ACB-B			2	6																						
ACB-C			2	8																						
ACB-D			1	9																						
ACB-E			2	9																						
ACB-F			2	10																						

NOTES  
1. ALL BEAMS ARE ACTIVE, CHILLED BEAMS.  
2. ALL BEAMS TO BE SELECTED AS FOUR PIPE BEAMS AND PIPED WITH CHILLED WATER.  
3. PERIMETER CHILLED BEAMS IN RESEARCH LABS TO BE PIPED WITH BOTH HOT WATER AND CHILLED WATER.  
4. MAKE FINAL DUCT CONNECTION TO BEAMS WITH FLEXIBLE DUCT.

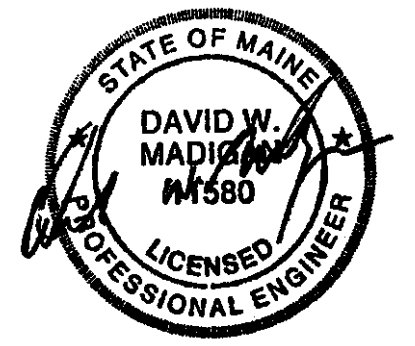
### PLATE & FRAME HEAT EXCHANGER SCHEDULE

UNIT NO.	LOCATION	SERVING	MANUFACTURER	MODEL & SIZE	FRAME SIZE LxWxH IN.	OPER. WEIGHT LBS.	# PLATES	MBH	HOT SIDE (SYSTEM)					COLD SIDE (TOWER)					REMARKS
									FLUID	E.W.T. F	L.W.T. F	GPM	WP PSI	FLUID	E.W.T. F	L.W.T. F	GPM	WP PSI	
HX-1	PROCTOR HALL	CHILLED WATER SYSTEM	TANTER	GCP-026-M-5-Y-34	46.13x18.5Wx20.13D	-	34	600,000	WATER	64	58	200	2.81	WATER	58	55	400	9.79	WATER-SIDE ECONOMIZER



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PROJECT NO.: 2007120.00

**BECKER structural engineers, inc.**

**SYTDesign CONSULTANTS**  
CIVIL ENGINEERING & LANDSCAPE ARCHITECTURE



# DATE DESCRIPTION  
PERMIT SET  
Date Issued 01/24/08  
Project Number 06506

SHEET NAME  
**MECHANICAL SCHEDULES**

Drawn By  
AMM  
Checked By  
DWM/FEH  
**M6.1**

**PERMIT SET - NOT FOR CONSTRUCTION**