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Electric

Titan Mechanical, Inc.
Design Build Engineering - Mechanical Contracting

UNIVERSITY OF NEW ENGLAND

COLLEGE OF PHARMACY

716 STEVENS AVENUE,
PORTLAND, ME

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. °F	L.W.T. °F	FLOW (GPM)	W.P.D. (FT.)	FOULING FACTOR	FLUID	E.W.T. °F	L.W.T. °F	FLOW (GPM)	W.P.D. (FT.)	FOULING FACTOR	FLUID	INPUT KW	PH	VOLTS	M.C.A.		M.O.C.P.	SHIPPING		OPERATING								
CH-1	TRANE	RTHC-200	200	-	-	-	61	45	300	-	-	-	-	-	-	-	85	100	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	N/A	N/A	N/A	N/A	N/A	31.3	3	480	65	-	-	-	-	-	-	AIR COOLED RECIPROCATING CHILLER (ALTERNATE)	

NOTES
1.

COOLING TOWER SCHEDULE

UNIT NO.	LOCATION	SERVING	MANUFACTURER	MODEL & SIZE	NOMINAL TONS	FLOW RATE GPM	FLUID	E.W.T. °F	L.W.T. °F	W.B.T. °F	CONDENSER FAN DATA			P.D. (PSI)	PH	VOLTS	REMARKS		
											NO.	HP	RPM						
CT-1	PROCTOR HALL CHILLER PLANT	CH-1 & 2	BAC	VTL-103-K	200	400	WATER	100	85	68.8	(1)	10	1800	6.4	3	480	INTEGRAL 5KW SUMP HEATER & VFD FAN SPEED CONTROL.		

NOTE:
1. VFD PROVIDED UNDER DIVISION 26

PUMP SCHEDULE

UNIT NO.	LOCATION	SERVING	MANUFACTURER	MODEL & SIZE	TYPE	GPM	HEAD FT.	FLUID	PUMP EFF.	IMP. SIZE IN.	CONTROL	ELEC. DATA					REMARKS
												BHP	MOTOR HP	VOLTS	PH	RPM	
CHWP-1	LOWER LEVEL MER	CHILLED WATER SYSTEM	BELL & GOSSETT	1510-3G	BASE MOUNTED	150	60	WATER	64.4	11.875	VFD	3.53	7.5	480	3	1150	PARALLEL OPERATION
CHWP-2	LOWER LEVEL MER	CHILLED WATER SYSTEM	BELL & GOSSETT	1510-3G	BASE MOUNTED	150	60	WATER	64.4	11.875	VFD	3.53	7.5	480	3	1150	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	57.9	6.875	-	1.2	1.5	480	3	1750	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	57.9	6.875	-	1.2	1.5	480	3	1750	LEAD LAG OPERATION (ALTERNATE)
MCHWP-1	LOWER LEVEL MER	MEDIUM TEMP CHILLED WATER SYSTEM	BELL & GOSSETT	1510-2G	BASE MOUNTED	230	60	WATER	60.1	11.875	VFD	2.92	5	480	3	1150	PARALLEL OPERATION
MCHWP-2	LOWER LEVEL MER	MEDIUM TEMP CHILLED WATER SYSTEM	BELL & GOSSETT	1510-2G	BASE MOUNTED	230	60	WATER	60.1	11.875	VFD	2.92	5	480	3	1150	PARALLEL OPERATION
HWP-1	LOWER LEVEL MER	HOT WATER SYSTEM SECONDARY PUMP	BELL & GOSSETT	1510-2G	BASE MOUNTED	125	60	WATER	58.2	11.75	VFD	2.62	5	480	3	1150	PARALLEL OPERATION
HWP-2	LOWER LEVEL MER	HOT WATER SYSTEM SECONDARY PUMP	BELL & GOSSETT	1510-2G	BASE MOUNTED	125	60	WATER	58.2	11.75	VFD	2.62	5	480	3	1150	PARALLEL OPERATION
HWP-3	LOWER LEVEL MER	HOT WATER SYSTEM PRIMARY PUMP	BELL & GOSSETT	SERIES 80 3 x 3 x 9-1/2	IN-LINE	125	25	WATER	67.7	8.0	-	1.17	2	480	3	1150	LEAD LAG OPERATION
HWP-4	LOWER LEVEL MER	HOT WATER SYSTEM PRIMARY PUMP	BELL & GOSSETT	SERIES 80 3 x 3 x 9-1/2	IN-LINE	125	25	WATER	67.7	8.0	-	1.17	2	480	3	1150	LEAD LAG OPERATION
HWP-5	LOWER LEVEL MER	DOMESTIC WATER HEATER	BELL & GOSSETT	SERIES 80 1-1/2 x 1-1/2 x 9-1/2	IN-LINE	48	25	WATER	53.9	8.25	-	0.56	0.75	480	3	1150	LEAD LAG OPERATION
HWP-6	LOWER LEVEL MER	DOMESTIC WATER HEATER	BELL & GOSSETT	SERIES 80 1-1/2 x 1-1/2 x 9-1/2	IN-LINE	48	25	WATER	53.9	8.25	-	0.56	0.75	480	3	1150	LEAD LAG OPERATION
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	63.4	6.375	-	0.39	0.75	480	3	1150	-
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	53.8	6.0	-	0.28	0.75	480	3	1150	-
FPHP-3	LOWER LEVEL MER	FREEZE PROTECTION (AHU-3)	BELL & GOSSETT	SERIES 80 3 x 3 x 7	IN-LINE	95	15	WATER	66.3	6.375	-	0.55	0.75	480	3	1150	-
POHWP-1	EXIST CHILLER PLANT	CH-1	BELL & GOSSETT	SERIES 80 4 x 4 x 47	IN-LINE	300	25	WATER	73.3	6.375	-	2.6	3	480	3	1750	PRIMARY CHILLED WATER PUMP
SCHWP-1	EXIST CHILLER PLANT	CH-1	BELL & GOSSETT	1510-3E	BASE MOUNTED	300	100	WATER	73.4	10.375	VFD	10.4	15	480	3	1750	SECONDARY CHILLED PUMP
CWP-1	EXIST CHILLER PLANT	CH-1	BELL & GOSSETT	1510-4BC	BASE MOUNTED	400	85	WATER	76.2	11.0	-	11.3	15	480	3	1750	CONDENSER WATER PUMP

NOTES
1.
2.

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	TRANTRER	GCP-026-M-5-K-34	46.13x18.5Wx20.13D	-	34	600	WATER	64	58	200	2.91	WATER	58	55	400	9.79	WATER-SIDE ECONOMIZER

NOTES
1.
2.

BID SET - NOT FOR CONSTRUCTION

DATE DESCRIPTION
BID SET
Date Issued 02/08/08
Project Number 06506

SHEET NAME
MECHANICAL SCHEDULES

Drawn By
AMM
Checked By
DWM/FBH

M6.1

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

