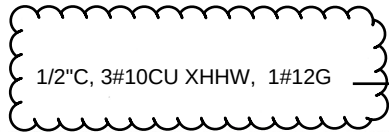


1. NOT ALL CIRCUITS SHOWN. REFER TO THE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. POND #1 BLOWER NO.1 AND BLOWER NO.2 ARE DIRECT 5HP BLOWER MOTOR REPLACEMENTS TO EXISTING BLOWER STRUCTURE PANELBOARD.

3. CONTRACTOR SHALL PROVIDE (2) NEW 50A 3-POLE CIRCUIT BREAKERS IN THE BLOWER PANELBOARD



1"C, 3#8CU XHHW, 1#10G

1"C, 3#8CU XHHW, 1#10G

1/2"C, 3#12CU XHHW, 1#12G



1/2"C, 3#12CU XHHW, 1#12G

PANELBOARD NO:		PH (EXISTING)									
VOLTAGE:		480Y/277		BUS RATING (A):		400		ENCLOSURE:		NEMA 1	
PHASE:		3		MAIN OC DEVICE:		400/3		MOUNTING:		SURFACE	
WIRE:		4-GND		INTERRUPTING RATING (KA):		22		LOCATION:			
200% NEUTRAL:		NO		SERVICE ENTRANCE LABEL:		NO					

CKT NO.	DESCRIPTION	CONNECTED LOAD (VA)				OCB		CONNECTED LOAD (VA)				DESCRIPTION	CKT NO.	
		LTS	REC	MECH	MISC	AMPS	P	AMPS	P	LTS	REC			MECH
1						A						7,961	30 KVA	2
3						B	50	3				7,961	TRANSFORMER FOR	4
5						C						7,961	PANEL PL	6
7						A					2,815			8
9						B	20	3			2,815		HEATING UNIT	10
11						C					2,815			12
13						A	20	1					LIGHTS OUTSIDE	14
15						B	20	1					LIGHTS OUTSIDE	16
17						C	20	1					LIGHTS OUTSIDE	18
19						A	20	1					LIGHTS OUTSIDE	20
21						B	20	1					LIGHTING CONTACTOR	22
23						C							SPACE	24

LOAD SUMMARY												
	LTS	REC	MECH	MISC	SPARE	TOTAL	PHASE BALANCE					
CONNECTED LOAD (KVA)	0.0	0.0	8.4	23.9	---	32.4	480	LINE-TO-LINE VOLTS		PHASE A (KVA)		11
DEMAND FACTOR	1.25	NEC	1.00	1.00	20%	---	39	CONNECTED AMPS		PHASE B (KVA)		11
DESIGN LOAD (KVA)	0.0	0.0	8.4	23.9	6.5	38.9	47	DESIGN AMPS		PHASE C (KVA)		11

PANEL BOARD NO:		PL (EXISTING)													
VOLTAGE:		208Y/120		BUS RATING (A):		100		ENCLOSURE:		NEMA 1					
PHASE:		3		MAIN OC DEVICE (A/PHASE):		100/3		MOUNTING:		SUFACE					
WIRE:		4+GND		INTERRUPTING RATING (KA):		10		LOCATION:		RM ELEC					
200% NEUTRAL:		NO		SERVICE ENTRANCE LABEL:		NO									
CKT NO.	DESCRIPTION	CONNECTED LOAD (VA)				OCB		CONNECTED LOAD (VA)				CKT NO.			
		LTS	REC	MECH	MISC	AMPS	P	AMPS	P	LTS	REC		MECH	MISC	
1	MAIN CONTROL PANEL					30	1	A	20	1		720		CHEM ROOM RECPT	2
3	ELEC ROOM LTS					20	1	B	20	1		720		ELEC ROOM RECPT	4
5	CHEM TEST RM LTS					20	1	C	20	2					6
7	GENERAL CONTROL							A	20					HEAT	8
9	POWER					20	2	B	20	1				HL VALVE DIVERTER	10
11	RECPT O.S. WALL					20	1	C	20	1				DATA BASE RACK	12
13	RECPT O.S. WALL					20	1	A	20	1				LIGHTS OUTSIDE	14
15	SPARE					20	1	B	20	1				LIGHTS OUTSIDE	16
17	SPARE					20	1	C	20	1				EXHAUST FAN AT END	18
19	RECPT O.S. WALL					20	1	A	20	1				SAMPLER	20
21	SPARE					20	1	B	20	1				SAMPLER	22
23	REMOTE ALARM PNL					20	1	C	20	1				TURBIDIMETER	24
25	EXHAUST FAN FAR END OF BLDG							A	20	1				TURBID CONTROLLER	26
27						20	3	B	20	1				EAST END FILTER BLDG	28
29								C	20	1				FLOW METER	30
31	HEAT PUMP							A	20	1				FLOW METER	32
33						30	2	B	20	1				SPARE	34
35	ROOF EXHAUST FAN					20	1	C	20	1				SPARE	36
37	ROOF EXHAUST FAN					20	1	A				2,106			38
39	SPARE					20	1	B				2,106		LCP-PDPS	40
41	SPARE					20	1	C				2,106			42
LOAD SUMMARY															
		LTS	REC	MECH	MISC	SPARE	TOTAL					PHASE BALANCE			
CONNECTED LOAD (KVA)		0.0	1.4	0.0	6.3	---	7.8	208	LINE-TO-LINE VOLTS		PHASE A (KVA)		3		
DEMAND FACTOR		1.25	NEC	1.00	1.00	20%	---	22	CONNECTED AMPS		PHASE B (KVA)		3		
DESIGN LOAD (KVA)		0.0	1.4	0.0	6.3	1.6	9.3	26	DESIGN AMPS		PHASE C (KVA)		2		

DIGITAL SIGNATURE
3/12/21



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DESIGNED:	R. DETERS
DRAWN:	J. ROBERTS
CHECKED:	G. WIESZ
PROJECT NO. 41445001.01	

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

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