

ELECTRIC LUMINAIRE SCHEDULE																
TYPE	DESCRIPTION	MANUFACTURER / SERIES	SIZE	HOUSING / MOUNTING	MATERIAL	STENCIL FACE	LENS DESCRIPTION	LAMP QTY	LAMP TYPE	LAMP BASE	BALLAST / DRIVER QTY	BALLAST / DRIVER	FINISH	COMMENTS	FIXTURE LOAD	VOLTAGE
EXM	EXIT/EMERGENCY LIGHTING UNIT COMBO	LITHONIA LIUM LED CHLORIDE CLC DUAL LITE EVC SURELITES APC	21"10"14"	UNIVERSAL	THERMOPLASTIC			2	1.5W LED WITH UNIT	0		NO BALLAST	WHITE	EXIT SIGNAGE COLOR TO BE BASED ON OWNER PREFERENCE OR EXISTING CONDITIONS. 6V UNIT. 3W OUTPUT LEAD CALCIUM BATTERY OPERATION. MULTI-VOLT INPUT CAPABILITY.	3 VA	277 V

PANEL NAME: 1B1 - 4

SUPPLY FROM: 1B1

LOCATION:

DISTRIBUTION SYSTEM: 208/120V 3PH 4W

FEEDER: (4) #4/0 AWG CU, (1) #4 AWG CU GND, IN 3" CONDUIT

MAINS RATING (A): 225

MAINS TYPE: MAIN LUGS ONLY

FEEDER ID: 225-C0

FAULT CURRENT (A): 11373

SHORT CIRCUIT RATING (A): 22000

LUGS TYPE:

ENCLOSURE TYPE: NEMA 1

SURGE SUPPRESSION: NONE

ULSE:

200% NEUTRAL:

ISOLATED GROUND:

CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	B	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT		
1	(-) BATTERY CHARGER EMERG. GEN.	--	--	--	20 A	--	1	0.00	0.00				1	--	20 A	--	(-) AFTER COOLER & DRYER - RCPT MECH ROOM	4		
3	(-) AIR DRYER	--	--	--	20 A	--	1		0.00	0.00			1	--	20 A	--	(-) READ OUT PANEL	4		
5	(-) HYDRO PUMP	--	--	--	20 A	--	1			0.00	0.00	1	--	20 A	--	--	(-) WASHER	6		
7	(-) AC CONTROL PANEL	--	--	--	20 A	--	1	0.00	0.00			1	--	20 A	--	--	(-) WASH MACHINE & DRYER OUTLET	10		
9	(-) FUEL OIL TRANSFER PUMP	--	--	--	20 A	--	1		0.00	0.00			1	--	20 A	--	(-) PFT LIT EQUIP GFI	6		
11	(-) CAB LTS	--	--	--	20 A	--	1			0.00	0.00	1	--	20 A	--	--	SPARE	12		
13	SPARE	--	--	--	20 A	--	1	0.00	0.00			1	--	20 A	--	--	SPARE	12		
15	(-) SMOKE DETECTORS	--	--	--	20 A	--	1		0.00	0.00			1	--	20 A	--	SPARE	16		
17	(-) AIR FILTER MOTORS	--	--	--	20 A	--	1			0.00	0.00	1	--	20 A	--	--	SPARE	16		
19																		20		
21																		22		
23																		24		
25																		26		
27																		28		
29																		30		
31																		32		
33																		34		
35	SPARE	--	--	--	20 A	--	1			0.00	0.00	1	--	20 A	--	--	SPARE	36		
37	SPARE	--	--	--	20 A	--	1	0.00	0.00			1	--	20 A	--	--	SPARE	38		
39	SPARE	--	--	--	20 A	--	1		0.00	0.00			0.00	0.00	1	--	20 A	--	SPARE	40
41	SPARE	--	--	--	20 A	--	1					0.00	0.00	0.00	1	--	20 A	--	SPARE	42
					TOTAL CONNECTED LOAD:				0.0 kVA		0.0 kVA		0.0 kVA							
LOAD CLASSIFICATION		CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			NOTES:			BREAKER QUANTITIES (NEW ONLY) (13) 20A / 1P, (13) 20A / 1P (-)						

PANEL NAME: 1A2-2

SUPPLY FROM: UNIT SUBSTATION

LOCATION:

DISTRIBUTION SYSTEM: 480/277V 3PH 4W

FEEDER: (2) SETS OF (4) #3/0 AWG CU, (1) #3 AWG CU GND, IN 3" CONDUIT EACH

MAINS RATING (A): 400

MAINS TYPE:

FEEDER ID: 400-4C

FAULT CURRENT (A): 27769

SHORT CIRCUIT RATING (A): 35000

LUGS TYPE:

ENCLOSURE TYPE: NEMA 1

SURGE SUPPRESSION:

ULSE:

200% NEUTRAL:

ISOLATED GROUND:

CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	B	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT						
3	(+)(LSI) SUPPLY AIR FAN 117	--	--	--	125 A	--	3	26.57	21.31	26.57	21.31						(-) CHILLED WATER PUMPS	2						
5																		4						
7								7.47	3.32	26.57	21.31							6						
9																		8						
(+) RETURN AIR FAN UNIT AHU-1	--	--	--	--	25 A	--	3	7.47	3.32	7.47	3.32						(-) MATERIAL LIFT	10						
11																		12						
13																		14						
15																		16						
17																		18						
19																		20						
21																		22						
23																		24						
25																		26						
27																		28						
29																		30						
31																		32						
33																		34						
35																		36						
37																		38						
39																		40						
41																		42						
TOTAL CONNECTED LOAD:								58.7 kVA	58.7 kVA	58.7 kVA														
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR			ESTIMATED DEMAND			NOTES:										BREAKER QUANTITIES (NEW ONLY)						
Continuous	0 VA	0.00%			0 VA													(1) 20A / 3P (-), (1) 25A / 3P (-), (1) 100A / 3P (-), (1) 125A / 3P (-) (LSI)						
Cooling	0 VA	0.00%			0 VA																			
Heating	0 VA	0.00%			0 VA																			
Kitchen Equipment	0 VA	0.00%			0 VA																			
Lighting	0 VA	0.00%			0 VA																			
Motor	0 VA	0.00%			0 VA																			
Non-Continuous	0 VA	0.00%			0 VA																			
Receptacle	0 VA	0.00%			0 VA																			
PANEL TOTALS																		DEMOLITION LOAD SUMMARY:						
EXISTING CONNECTED LOAD: 102139 VA																								
EXISTING LOAD DEMAND FACTOR: 100.00%																								
ADDED CONNECTED LOAD: 0 VA																								
DEMOLISHED DEMAND: 0 VA																								
DEMAND CALCULATION NOTES: 100% EXISTING																								
TOTAL DEMAND: 102139 VA																								
TOTAL DEMAND AMPS: 123 A																								

[illegible]

PANEL NAME: 1A2-1

SURGE SUPPRESSION: ULSE:

100% NEUTRAL:

ISOLATED GROUND:

SUPPLY FROM: UNIT SUBSTATION

LOCATION:

DISTRIBUTION SYSTEM: 480/277V 3PH 4W

FEEDER: (2) SETS OF (4) #3/0 AWG CU, (1) #3 AWG CU GND, IN 3" CONDUIT EACH

MAINS RATING (A): 400

MAINS TYPE:

FEEDER ID: 400-4C

FAULT CURRENT (A): 35000

LUGS TYPE:

CKT	CIRCUIT DESCRIPTION	VD%	AWG	GND	TRIP	FRAME	POLE	A	B	C	POLE	FRAME	TRIP	GND	AWG	VD%	CIRCUIT DESCRIPTION	CKT
1																		2
3	(-) AIR COMPRESSOR 116	--	--	--	30 A	--	3	3.88	3.04						--	--	(-) EXHAUST FAN 115	4
5										3.88	3.04							6
9								0.58	0.58									8
11	(-) INSTRUMENT AIR COMPRESSOR 2	--	--	--	20 A	--	3		0.58	0.58					--	--	(-) INSTRUMENT AIR COMPRESSOR 1	10
13										0.58	0.58							12
15	(-) WATER BOOSTER PUMP	--	--	--	15 A	--	3	2.77	3.88						--	--	(-) HOT WATER PUMP 2	14
17									2.77	3.88								16
19								3.88	0.58									20
21	(-) HOT WATER PUMP 1	--	--	--	20 A	--	3		3.88	0.58					--	--	(-) BOILER FEED PUMPS 119 & 120	22
23											3.88	0.58						24
25																		26
27	(-) BOILER FANS 12 & 13	--	--	--	30 A	--	3	2.66										28
29											2.66							30
31																		32
33																		34
35																		36
37																		38
39																		40
41																		42
TOTAL CONNECTED LOAD:								21.8 kVA	21.8 kVA	21.8 kVA								
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR			ESTIMATED DEMAND			NOTES:								BREAKER QUANTITIES (NEW ONLY)		
Continuous	0 VA	0.00%			0 VA			(2) 15A / 3P (-), (5) 20A / 3P (-), (3) 30A / 3P (-)										
Cooling	0 VA	0.00%			0 VA													
Heating	0 VA	0.00%			0 VA													
Kitchen Equipment	0 VA	0.00%			0 VA													
Lighting	0 VA	0.00%			0 VA													
Motor	0 VA	0.00%			0 VA													
Non-Continuous	0 VA	0.00%			0 VA													
Receptacle	0 VA	0.00%			0 VA													
PANEL TOTALS								DEMOLITION LOAD SUMMARY:										
EXISTING CONNECTED LOAD: 65517 VA																		
EXISTING LOAD DEMAND FACTOR: 100.00%																		
ADDED CONNECTED LOAD: 0 VA																		
DEMOLISHED DEMAND: 0 VA																		
DEMAND CALCULATION NOTES: 100% EXISTING																		
TOTAL DEMAND: 65517 VA																		
TOTAL DEMAND AMPS: 79 A																		

PANEL SCHEDULE LEGEND			(LT)	=	PROVIDE LOCK-OUT/TAG-OUT DEVICE
(EX)	=	EXISTING CIRCUIT TO REMAIN	(-)	=	CONNECT BRANCH CIRCUIT, WHICH WAS DISCONNECTED FROM ANOTHER SOURCE AS PART OF SELECTIVE DEMOLITION, TO POLE SPACE(S) INDICATED.
(N)	=	NEW CIRCUIT TO EXISTING CIRCUIT BREAKER			DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING COLOR-CODING OF THE BRANCH CIRCUIT CONDUCTOR INSULATION. PROVIDE NEW BREAKER IF REQUIRED.
(G)	=	PROVIDE GROUND FAULT INTERRUPTER (GFI) CIRCUIT BREAKER			
(GE)	=	PROVIDE GROUND-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER			
(ST)	=	PROVIDE SHUNT TRIP CIRCUIT BREAKER	*	=	WIRE SIZED TO COMPENSATE FOR VOLTAGE DROP
(A)	=	PROVIDE ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER	**	=	REFER TO DRAWINGS FOR SPECIFICATIONS
(L)	=	PROVIDE LOCK-ON DEVICE	SL	=	SEE THE SINGLE LINE DIAGRAM / SCHEDULE FOR WIRE SIZE AND VOLTAGE DROP

PANEL SCHEDULE GENERAL NOTES

- A. PROVIDE HACR RATED BREAKERS ON ALL MOTOR LOADS.
- B. PROVIDE LOCKING TYPE BREAKER FOR ALL LIFE SAFETY AND NIGHT LIGHTING BRANCH CIRCUITS.
- C. ALL VOLTAGE DROP CALCULATIONS AND COMPENSATED WIRE SIZES ARE BASED ON RIGHT ANGLE CIRCUIT LENGTHS TO THE LAST DEVICE. ACTUAL VOLTAGE DROP VARIES BASED ON INSTALLED WIRE LENGTH.

PANEL KEY		
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--	1B1 - 4	1A1 - 2
--	1A2-2	1A2-1