

PANEL MDP (ELECTRICAL ROOM) SECTION 1 120/208 3PH 4W 400 AMP BUS - MLO 42K AIC NEMA TYPE 1 (SURFACE)														
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	
1	SPARE	20	1			0	2	SPARE	20	1			0	
3	SPARE	20	1			0	4	SPARE	20	1			0	
5	SPARE	20	1			0	6	SPARE	20	1			0	
7	SPARE	20	1			0	8	SPARE	20	1			0	
9	SPARE	20	1			0	10	SPARE	20	1			0	
11	SPARE	20	1			0	12	SPARE	20	1			0	
13	SPARE	20	1			0	14	SPARE	20	1			0	
15	SPARE	20	1			0	16	SPARE	20	1			0	
17	SPARE	20	1			0	18	SPARE	20	1			0	
19	SPARE	20	1			0	20	SPARE	20	1			0	
21	SPARE	20	1			0	22	SPARE	20	1			0	
23	SPARE	20	1			0	24							
25							26	ELEVATOR SHUNT TRIP	60	3		37	1.43	52
27	MIXED USE PANEL A FEEDER	400	3				28					37	1.43	52
29							30	SPACE						
31							32							
33	MIXED USE PANEL C FEEDER	400	3				34	MIXED USE PANEL B FEEDER	400	3		0	0.00	0
35							36					0	0.00	0
37							38					2	#####	#####
39	PANEL HP FEEDER	225	3				40	PANEL BP FEEDER	400	3		2	#####	#####
41							42					2	#####	#####

AT - Amp Trip
P - Poles
A - Amps
CA - Connected Amperes
DF - Demand Factor (1 - .1)
DA - Demand Amperes
MLO - Main Lug Only
MCB - Main Circuit Breaker

Section 1
Tot Amps/PH - Connected Load **180.67**
Demand Factor **#DIV/0!**
Total Amps/PH - Demand **#DIV/0!**
Connected KVA **65.01**
Demand KVA **#DIV/0!**
Min. Panel Size (Demand x 1.25) - Amps **#DIV/0!**

NOTES:
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.52

PANEL BP (MECHANICAL ROOM BSMNT) SECTION 1 120/208 3PH 4W 400 AMP BUS - MLO 42K AIC NEMA TYPE 1 (SURFACE)														
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	
1	BOILER ROOM LIGHTS	20	1		2	0.50	2	BOILER ROOM RECEP	20	1		5	0.50	2
3	SPARE	20	1			0	4	SPARE	20	1			0	
5	SPARE	20	1			0	6	SPARE	20	1			0	
7	SPARE	20	1			0	8	SPARE	20	1			0	
9	SPARE	20	1			0	10	SPARE	20	1			0	
11	SPARE	20	1			0	12	SPARE	20	1			0	
13	SPARE	20	1			0	14	SPARE	20	1			0	
15	SPARE	20	1			0	16	SPARE	20	1			0	
17	SPARE	20	1			0	18	SPARE	20	1			0	
19	SPARE	20	1			0	20	SPARE	20	1			0	
21	SPARE	20	1			0	22	SPARE	20	1			0	
23	SPARE	20	1			0	24	SPARE	20	1			0	
25	SPARE	20	1			0	26	SPARE	20	1			0	
27	SPARE	20	1			0	28	SPARE	20	1			0	
29	SPARE	20	1			0	30	SPARE	20	1			0	
31	SPARE	20	1			0	32	SPARE	20	1			0	
33	SPARE	20	1			0	34	SPARE	20	1			0	
35	SPARE	20	1			0	36	SPARE	20	1			0	
37	SPARE	20	1			0	38	SPARE	20	1			0	
39	SPARE	20	1			0	40	SPARE	20	1			0	
41	SPARE	20	1			0	42	SPARE	20	1			0	

PROVIDE WITH FEED THRU LUGS FOR SECTION 2

Section 1
Tot Amps/PH - Connected Load **2.17**
Demand Factor **50.00%**
Total Amps/PH - Demand **1.08**
Connected KVA **0.78**
Demand KVA **0.39**
Min. Panel Size (Demand x 1.25) - Amps **1.35**

PANEL BP (MECHANICAL ROOM BSMNT) SECTION 2 120/208 3PH 4W 400 AMP BUS - MLO 42K AIC NEMA TYPE 1 (SURFACE)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
43	SPARE	20	1			0	44	SPARE	20	1			0
45	SPARE	20	1			0	46	SPARE	20	1			0
47	SPARE	20	1			0	48	SPARE	20	1			0
49	SPARE	20	1			0	50	SPARE	20	1			0
51	SPARE	20	1			0	52	SPARE	20	1			0
53	SPARE	20	1			0	54	SPARE	20	1			0
55	SPARE	20	1			0	56	SPARE	20	1			0
57	SPARE	20	1			0	58	SPARE	20	1			0
59	SPARE	20	1			0	60	SPARE	20	1			0
61	SPARE	20	1			0	62	SPARE	20	1			0
63	SPARE	20	1			0	64	SPARE	20	1			0
65	SPARE	20	1			0	66	SPARE	20	1			0
67	SPARE	20	1			0	68	SPARE	20	1			0
69	SPARE	20	1			0	70	SPARE	20	1			0
71	SPARE	20	1			0	72	SPARE	20	1			0
73	SPARE	20	1			0	74	SPARE	20	1			0
75	SPARE	20	1			0	76	SPARE	20	1			0
77	SPARE	20	1			0	78	SPARE	20	1			0
79	SPARE	20	1			0	80	SPARE	20	1			0
81	SPARE	20	1			0	82	SPARE	20	1			0
83	SPARE	20	1			0	84	SPARE	20	1			0

AT - Amp Trip
P - Poles
A - Amps
CA - Connected Amperes
DF - Demand Factor (1 - .1)
DA - Demand Amperes
MLO - Main Lug Only
MCB - Main Circuit Breaker

Section 2
Tot Amps/PH - Connected Load **0.00**
Demand Factor **#DIV/0!**
Total Amps/PH - Demand **0.00**
Connected KVA **0.00**
Demand KVA **0.00**
Min. Panel Size (Demand x 1.25) - Amps **0.00**

Total Combined Load
Tot Amps/PH - Connected Load **2.17**
Demand Factor **#DIV/0!**
Total Amps/PH - Demand **1.08**
Connected KVA **0.78**
Demand KVA **0.39**
Min. Panel Size (Demand x 1.25) - **1.35**

NOTES:
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.52

PANEL HP (ELECTRICAL RM 1ST FLR) SECTION 1 120/208 3PH 4W 400 AMP BUS - MLO 42K AIC NEMA TYPE 1 (SURFACE)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
1	ELEVATOR POWER	20	1	10	1.00	10	2	LIGHTING CONTACTOR "LC" POWER	20	1	5	1.00	5
3	ELEVATOR CAB LIGHTS	20	1	5	1.00	5	4	POLE LIGHTS VIA LC	20	1	6	0.70	4
5	ELEV PIT LIGHT AND RECEP	20	1	2	0.50	1	6	POLE LIGHTS VIA LC	20	1	6	0.70	4
7	ELEV SUMP PUMP CONTROL PANEL	20	1	15	1.00	15	8	BUILDING LIGHTS VIA LC	20	1	1	0.70	1
9	STAIR A LIGHTS	20	1		1.00	0	10	BUILDING LIGHTS VIA LC	20	1	1	0.70	1
11	STAIR A RECEP	20	1		0.50	0	12	BUILDING LIGHTS VIA LC	20	1	1	0.70	1
13	STAIR B & RESIDENT STORAGE LIGHTS	20	1		1.00	0	14	PARKING GARAGE LIGHTS VIA LC	20	1	3	0.70	2
15	STAIR B RECEP	20	1		0.50	0	16	1ST FLR COMMON RECEP	20	1	8	0.50	4
17	FIRST FLOOR LIGHTS	20	1		0.70	0	18	DRY SYSTEM PUMP	20	1	15	1.00	15
19	TELEPHONE BACKBOARD (TBB)	20	1	3	0.50	2	20	ELECTRIC ROOM RECEP	20	1	3	0.50	2
21	SECOND FLOOR HALL LIGHTS	20	1	2	1.00	2	22	SECOND FLOOR HALL RECEP	20	1	8	0.50	4
23	THIRD FLOOR HALL LIGHTS	20	1		1.00	0	24	THIRD FLOOR HALL RECEP	20	1	8	0.50	4
25	FOURTH FLOOR HALL LIGHTS	20	1		1.00	0	26	FOURTH FLOOR HALL RECEP	20	1	8	0.50	4
27	RADON FANS	20	1	5	1.00	5	28	ROOF RECEP	30	1	6	0.50	3
29	RADON FANS	20	1	5	1.00	5	30	SPARE	20	1			0
31	SPARE	20	1			0	32	SPARE	20	1			0
33	SPARE	20	1			0	34	SPARE	20	1			0
35	SPARE	20	1			0	36	SPARE	20	1			0
37	SPARE	20	1			0	38	SPARE	20	1			0
39	SPARE	20	1			0	40	SPARE	20	1			0
41	SPARE	20	1			0	42	SPARE	20	1			0

PROVIDE WITH FEED THRU LUGS FOR SECTION 2

Section 1
Tot Amps/PH - Connected Load **41.83**
Demand Factor **77.57%**
Total Amps/PH - Demand **32.45**
Connected KVA **15.05**
Demand KVA **11.68**
Min. Panel Size (Demand x 1.25) - Amps **40.56**

PANEL HP (ELECTRICAL RM 1ST FLR) SECTION 2 120/208 3PH 4W 400 AMP BUS - MLO 42K AIC NEMA TYPE 1 (SURFACE)													
CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA
43	SPARE	20	1			0	44	SPARE	20	1			0
45	SPARE	20	1			0	46	SPARE	20	1			0
47	SPARE	20	1			0	48	SPARE	20	1			0
49	SPARE	20	1			0	50	SPARE	20	1			0
51	SPARE	20	1			0	52	SPARE	20	1			0
53	SPARE	20	1			0	54	SPARE	20	1			0
55	SPARE	20	1			0	56	SPARE	20	1			0
57	SPARE	20	1			0	58	SPARE	20	1			0
59	SPARE	20	1			0	60	SPARE	20	1			0
61	SPARE	20	1			0	62	SPARE	20	1			0
63	SPARE	20	1			0	64	SPARE	20	1			0
65	SPARE	20	1			0	66	SPARE	20	1			0
67	SPARE	20	1			0	68	SPARE	20	1			0
69	SPARE	20	1			0	70	SPARE	20	1			0
71	SPARE	20	1			0	72	SPARE	20	1			0
73	SPARE	20	1			0	74	SPARE	20	1			0
75	SPARE	20	1			0	76	SPARE	20	1			0
77	SPARE	20	1			0	78	SPARE	20	1			0
79							80	SPARE	20	1			0
81	CENTRAL HVAC ON ROOF	100	3		80	0.70	82	SPARE	20	1			0
83							84	SPARE	20	1			0

AT - Amp Trip
P - Poles
A - Amps
CA - Connected Amperes
DF - Demand Factor (1 - .1)
DA - Demand Amperes
MLO - Main Lug Only
MCB - Main Circuit Breaker

Section 2
Tot Amps/PH - Connected Load **26.67**
Demand Factor **70.00%**
Total Amps/PH - Demand **18.67**
Connected KVA **9.60**
Demand KVA **6.72**
Min. Panel Size (Demand x 1.25) - Amps **23.33**

Total Combined Load
Tot Amps/PH - Connected Load **68.50**
Demand Factor **110.81%**
Total Amps/PH - Demand **51.12**
Connected KVA **24.65**
Demand KVA **18.39**
Min. Panel Size (Demand x 1.25) - **63.90**

NOTES:
1. PROVIDE ARC FAULT TYPE CIRCUIT BREAKERS IN ACCORDANCE WITH NEC 210.12
2. PROVIDE TAMPER RESISTANT OUTLETS PER NEC 406.11 SECTION 210.52