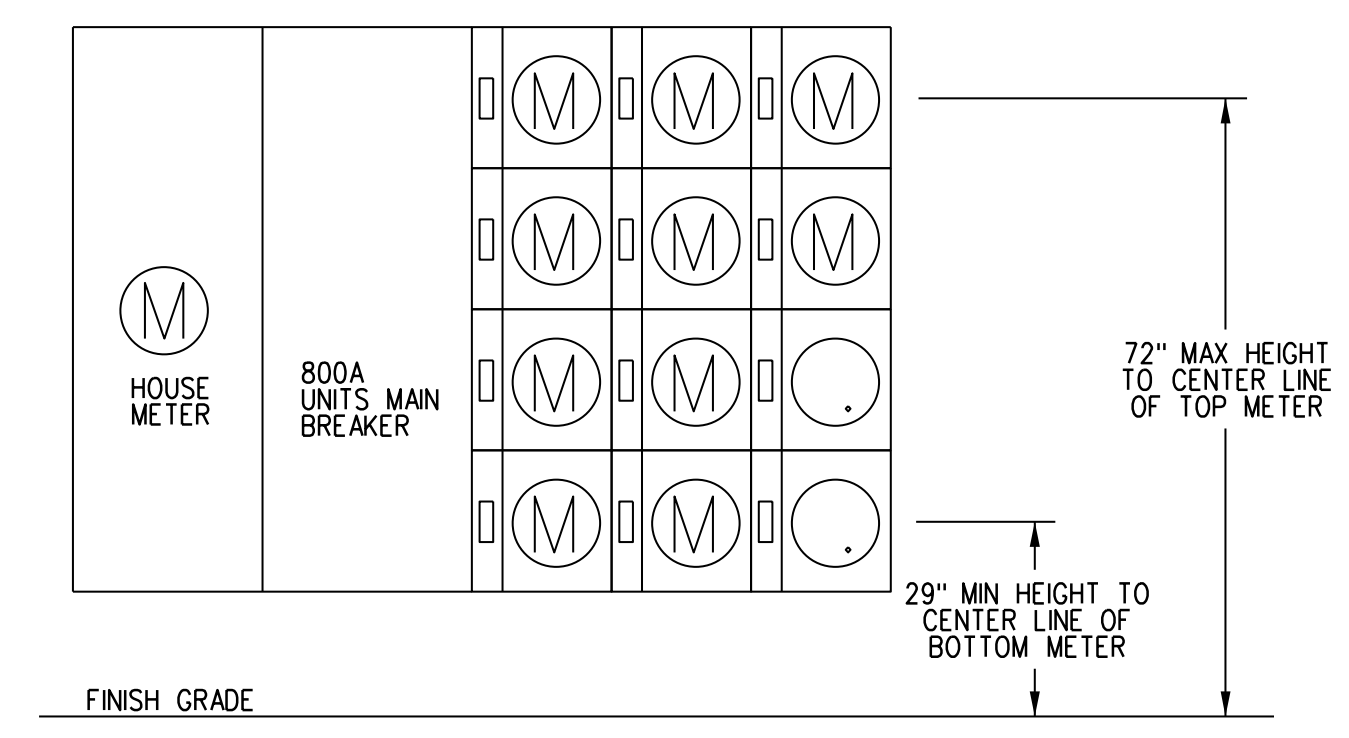


ONE LINE DIAGRAM
NOT TO SCALE



METER STACK (11 METERS)
NOT TO SCALE

PANEL HP (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	ELEVATOR SHUNT TRIP	150	3	120	0.50	60	2	ELEVATOR POWER	20	1	6	1.00	6
3				120	0.50	60	4	ELEVATOR CAB LIGHTS	20	1	4	1.00	4
5				120	0.50	60	6	ELEVATOR SUMP PIT LIGHT & RECEIPT	20	1	4	0.50	2
7	FACP	20	1	8	1.00	8	8	ELEV SUMP PUMP CONTROL PANEL	20	1	12	0.70	8
9	STAIR A LIGHTS	20	1	6	1.00	6	10	EMR LIGHTS	20	1	1	0.50	1
11	STAIR A RECEIPTS	20	1	5	0.60	3	12	EMR RECEIPTS	20	1	6	0.50	3
13	RECEIPTS, ENTRY, LOBBY, CORRIDORS, TRASH & ELECT ROOMS & OUTSIDE	20	1	14	0.50	7	14	LIGHTS, ENTRY, LOBBY, CORRIDORS, TRASH & ELECT ROOMS	20	1	12	1.00	12
15	TBB (TOP)	20	1	2	0.50	1	16	STAIR B LIGHTS	20	1	6	1.00	6
17	TBB (BOTTOM)	20	1	2	0.50	1	18	STAIR B RECEIPTS & WH-1	30	1	20	0.70	14
19	RECEIPTS FLOOR 2 CORRIDOR	20	1	6	0.50	3	20	LIGHTS FLOOR 2 CORRIDOR	20	1	15	1.00	15
21	RECEIPTS FLOOR 3 CORRIDOR	20	1	6	0.50	3	22	LIGHTS FLOOR 3 CORRIDOR	20	1	15	1.00	15
23	RECEIPTS FLOOR 4 CORRIDOR	20	1	6	0.50	3	24	LIGHTS FLOOR 4 CORRIDOR	20	1	15	1.00	15
25	FLOOR 2 CORRIDOR WH-1	20	1	15	0.70	11	26	FLOOR 3 CORRIDOR WH-1	20	1	15	0.70	11
27	FLOOR 2 CORRIDOR WH-1	20	1	15	0.70	11	28	FLOOR 3 CORRIDOR WH-1	20	1	15	0.70	11
29	FLOOR 4 CORRIDOR WH-1	20	1	15	0.70	11	30	ROOF RECEIPTS	20	1	5	0.50	3
31	FLOOR 4 CORRIDOR WH-1	20	1	15	0.70	11	32	RADON FANS	20	1	6	1.00	6
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 210.33

Demand Factor 61.32%

Total Amps/PH - Demand 128.97

Connected KVA 75.69

Demand KVA 46.41

Min. Panel Size (Demand x 1.25) - Amps 161.21

PANEL HP (ELECTRICAL ROOM) SECTION 2 120/208 3PH 4W 800 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	CU-1	35	2	21	0.70	15	44	TIME CLOCK & PHOTOCCELL - LC	20	1	5	1.00	5
45				21	0.70	15	46	WP1 BUILDING MOUNTED LIGHTS VIA LC	20	1	2	0.70	1
47	CU-2	60	2	35	0.70	24	48	WP2 BUILDING MOUNTED LIGHTS VIA LC	20	1	2	0.70	1
49				35	0.70	24	50	POLE LIGHTS VIA LC	20	1	4	0.70	3
51	CU-3	60	2	35	0.70	24	52	LC SPARE	20	1			0
53				35	0.70	24	54	SCU-1	20	2	15	0.70	11
55	EF-4 & EF-5 TRASH ROOM	30	1	23	0.70	16	56		15	0.70	11		
57	WH-2 ELECT ROOM	20	2	15	0.70	11	58	SCU-1	20	2	15	0.70	11
59				15	0.70	11	60		15	0.70	11		
61	WH-2 TRASH AREA	20	2	15	0.70	11	62	WH-2 STAIR A	20	2	15	0.70	11
63				15	0.70	11	64		15	0.70	11		
65	WH-2 CORRIDOR 103	20	2	15	0.70	11	66	WH-2 LOBBY	20	2	15	0.70	11
67				15	0.70	11	68		15	0.70	11		
69	SPARE	20	1			0	70	WH-2 HOUSING VESTIBULE	20	2	15	0.70	11
71	SPARE	20	1			0	72		15	0.70	11		
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	TEMP HEATING	20	1	6	0.70	4	82	SPARE	20	1			0
83	TEMP LIGHTING	20	1	15	0.50	8	84	SPARE	20	1			0

Section 2

Tot Amps/PH - Connected Load 158.93

Demand Factor 69.69%

Total Amps/PH - Demand 110.75

Connected KVA 57.19

Demand KVA 39.85

Min. Panel Size (Demand x 1.25) - Amps 138.44

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

Total Combined Load

Tot Amps/PH - Connected Load 369.27

Demand Factor 0.879888

Total Amps/PH - Demand 239.72

Connected KVA 132.88

Demand KVA 86.26

Min. Panel Size (Demand x 1.25) - 299.65

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

Prepared For:

Consultant:

Architect:

Project:

Revisions:

Date:

Scale:

ONE-LINE AND PANEL SCHEDULE

E3.1

BENNETT ENGINEERING MECHANICAL/ELECTRICAL CONSULTANTS 607-666-9476

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185 FORE STREET Portland, Maine

06-11-15 ADDENDUM #1

22 May, 2015

As indicated