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<b>Project Name:</b>	Mulock House – Adaptive Re-Use	<b>Date Issued:</b>	October 8, 2024
<b>Quasar Project #:</b>	ED-22-107		
<b>Client Project #:</b>			

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**Distribution**

+VG Architects	David Ecclestone	<a href="mailto:decclstone@plusvg.com">decclstone@plusvg.com</a>
+VG Architects	Sara Gill	<a href="mailto:sgill@plusvg.com">sgill@plusvg.com</a>
Quasar Consulting Group	Barry Dempsey	<a href="mailto:Barry.dempsey@quasarcg.com">Barry.dempsey@quasarcg.com</a>
Quasar Consulting Group	Giuseppe Petralito	<a href="mailto:giuseppe.petralito@quasarcg.com">giuseppe.petralito@quasarcg.com</a>

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**Addendum #: 9****Revision #: 00**

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This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

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This addendum includes modifications to the drawings and specifications as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

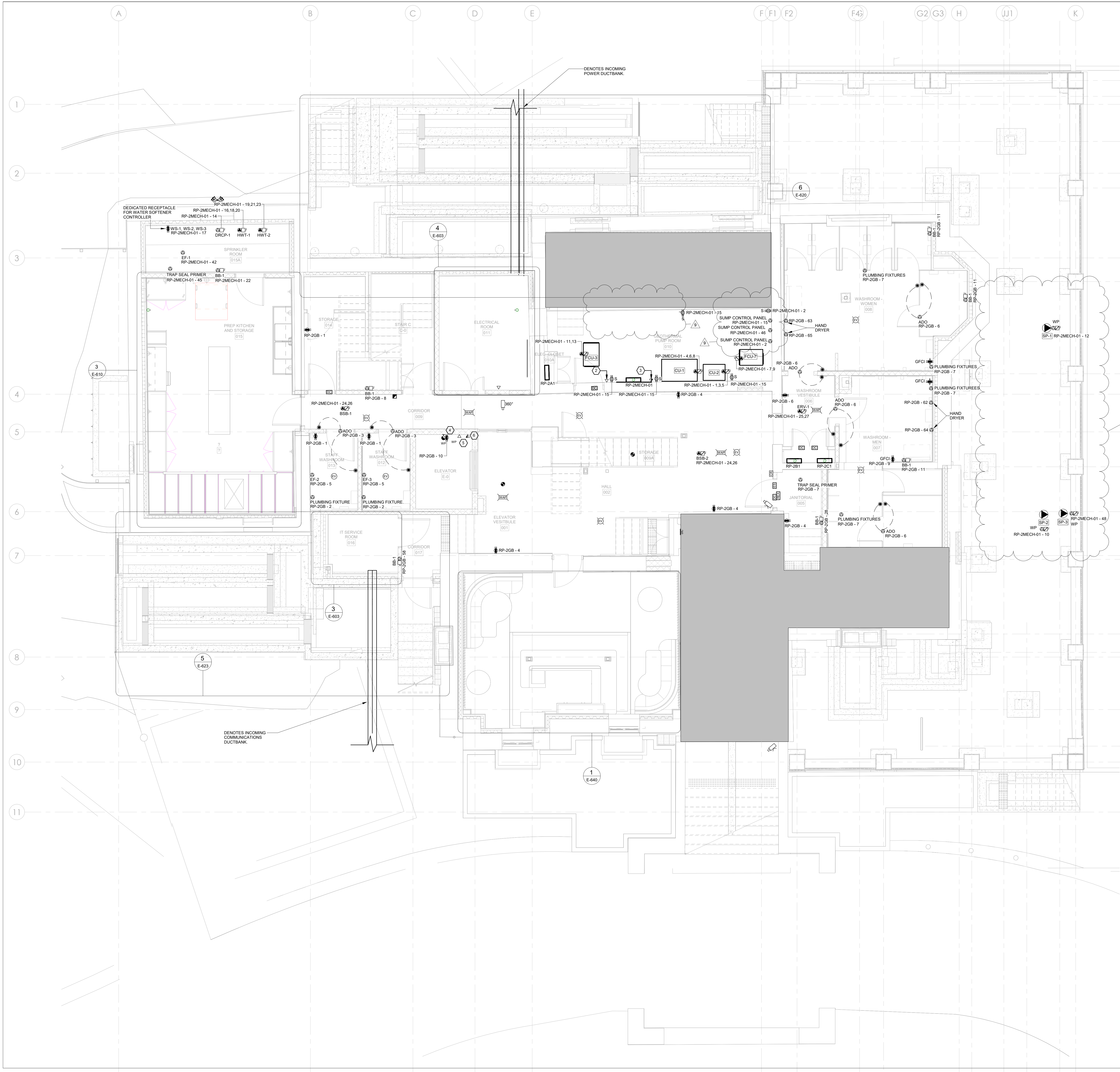
**Changes to Drawings:**

1. **Drawing E-300 – POWER & SYSTEMS LOWER BASEMENT - NEW**
  - 1.1. Relocate Sump pump SP1 & SP2 to new location under the verandah
  - 1.2. Add new sump SP3 to location under the verandah
2. **Drawing E-305 – ELECTRICAL PANEL SCHEDULE – BASEMENT SHEET 1**
  - 2.1. Replaced Panel schedule RP-2MECH-01 with the panel schedule attached as part of this addendum.

**Quasar Consulting Group**

Earl Whyte, C. Tech

Electrical Team Lead



### GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS.

2. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. IF NOT INDICATED, CONFIRM EXACT LOCATION WITH ARCHITECT.

3. LABEL EVERY RECEPTACLE WITH PANEL DESIGNATION AND CIRCUIT NUMBER. CIRCUIT NUMBERS ARE FOR GROUPING PURPOSES ONLY. CONTRACTOR CAN REARRANGE CIRCUITING FOR COMPLETE 3 PHASE SETS.

4. PROVIDE FIRE RATED PLYWOOD IN ALL ELECTRICAL AND IT ROOM. AS WELL, PROVIDE FIRE RATED PLYWOOD BEHIND ALL ELECTRICAL PANELS.

### KEYNOTE LEGEND

Key value	Keynote Text
1	DENOTES FIRE ALARM CONNECTION TO SUPPRESSION SYSTEM. SYSTEMS BY OTHERS.
2	DATA FOR TELEPHONE OUTLET MOUNTED AND 1220 AFF.
3	DATA OUTLET FOR BUILDING AUTOMATION SYSTEM (BAS. PRIOR TO ROUGH-IN ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION.
4	LOCATED AT BOTTOM OF SHAFT.
5	ANALOG PHONE CONNECTION FOR ELEVATOR EMERGENCY PHONE
6	DATA FOR ELEVATOR CCTV AND SPARE CONNECTION

### REVISIONS:

NO.	DATE	PARTICULAR
1	2023-11-28	ISSUED FOR 100% CDD
2	2024-05-24	ISSUED FOR PERMIT COSTING
3	2024-06-07	RE-ISSUED FOR PERMIT
4	2024-06-10	ISSUED FOR TENDER REVIEW
5	2024-08-02	ISSUED FOR TENDER
6	2024-08-16	ISSUED FOR BUILDING PERMIT REVISION
7	2024-08-26	ISSUED FOR ELECTRICAL ADDENDUM 8
8	2024-09-27	ISSUED FOR ELECTRICAL ADDENDUM 9
9	2024-10-08	ISSUED FOR ELECTRICAL ADDENDUM 9

### NOTES:

### KEY PLAN:

**CLIENT:**  
NEWMARKET

**PROJECT:**  
22275

MULOCK ESTATE ADAPTIVE RE-USE

16780 Yonge Street,  
Newmarket, Ontario.

ORIGINAL PAGE SIZE: ARCH E1 - 30" x 42"  
KEY TO DETAIL LOCATION:  
A - DETAIL NO.  
B - DETAIL NO. ORIGIN

PROJECT DATE: 2024-10-08 10:17:14 PM

DRAWN BY: Author

CHECKED BY: Checker

POWER & SYSTEMS LOWER BASEMENT - NEW

SCALE 1 : 50

# E-300



Branch Panel: RP-2MECH-01													
Location: GEOTHERMAL PUMP ROOM 010				Volts: 120/208 Wye				A.I.C. Rating: REFER TO SPECIFICATIONS					
Supply From:				Phases: 3				Mains Type: LUGS					
Mounting: SURFACE				Wires: 4				Mains Rating: 600 A					
Enclosure:								MCB Rating: N/A					
Notes:													
CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT
1				2798 VA			1000 VA			1	20 A	SUMP CONTROL PANEL	2
3	CU-2	45 A	3		2798 VA			2798 VA					4
5						2798 VA			2798 VA	3	45 A	CU-1	6
7	POWER: FCU-7, FCU-8	15 A	2	417 VA			2798 VA			1			8
9					417 VA			920 VA		1	15 A	SP-2	10
11	FCU-3	15 A	2			84 VA			920 VA	1	15 A	SP-1	12
13				64 VA			288 VA			1	15 A	DRCP-1	14
15	RECP: GEOTHERMAL PUMP ROOM SERVICE...	20 A	1		900 VA			1833 VA					16
17	RECP: WS-1, WS-2, WS-3	20 A	1			180 VA			1833 VA	3	45 A	HWT-1	18
19				1833 VA			1833 VA			1	20 A	POWER: BB-1	20
21	HWT-2	45 A	3		1833 VA			560 VA		1	20 A		22
23						1833 VA		125 VA		2	15 A	POWER: BSB-1, BSB-2	24
25	ERV-1	15 A	2	1269 VA			125 VA		84 VA				26
27				1269 VA					84 VA	2	15 A	FCU-6	28
29	TRAP SEAL, SERVICE RECP	20 A	1			680 VA			84 VA	1	20 A	BB-1	30
31	HU-6	15 A	1	1440 VA			560 VA			1	20 A	Spare	32
33					1269 VA			0 VA		1	20 A		34
35	ERV-2	15 A	2			1269 VA			0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA		0 VA		0 VA	1	20 A	Spare	40
41	Spare	20 A	1			0 VA			100 VA	1	20 A	POWER: EF-1	42
43	Spare	20 A	1	0 VA		0 VA	500 VA			1	20 A	POWER: PLUMBING FIXTURES ROOM 113	44
45	POWER: TRAP SEAL PRIMER	20 A	1			500 VA		500 VA		1	20 A	SUMP PUMP CONTROL PANEL	46
47	POWER: EF-3, ROOM 113	20 A	1			500 VA			920 VA	1	20 A	SP-3	48
49													50
51													52
53													54
55													56
57													58
59													60
61													62
63													64
65													66
67													68
69													70
71													72
Total Load:				14945 VA		15681 VA		14124 VA					
Total Amps:				126 A		132 A		118 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Receptacle		1260 VA		100.00%		1260 VA		Total Conn. Load: 44751 VA					
								Total Est. Demand: 44751 VA					
								Total Conn.: 124 A					
								Total Est. Demand: 124 A					
Notes:													

Branch Panel: RP-2GB															
Location: ELECTRICAL ROOM 011				Volts: 120/208 Wye				A.I.C. Rating: REFER TO SPECIFICATIONS							
Supply From:				Phases: 3				Mains Type: LUGS							
Mounting: SURFACE				Wires: 4				Mains Rating: 225 A							
Enclosure:										MCB Rating: 200 A					
Notes:															
CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT		
1	RECP: STORAGE AND WASHROOMS	20 A	1	540 VA			200 VA			1	20 A	POWER: PLUMBING FIXTURES (012, 013)	2		
3	POWER: ADO STAFF WASHROOM (012, 013)	20 A	1		600 VA			720 VA		1	20 A	RECP: HOUSEKEEPING	4		
5	POWER: EF-2 AND EF-3 (012, 013)	20 A	1			200 VA			1380 VA	1	20 A	POWER: ADO MEN AND WOMEN WASHROOMS	6		
7	POWER: HAND DRYER	20 A	1	500 VA				560 VA		1	20 A	POWER: BB-1	8		
9	RECP: (WASHROOM 007, 008)	20 A	1		540 VA			180 VA		1	20 A	RECP: ELEVATOR	10		
11	POWER: BB-1 (WASHROOM 007, 008)	20 A	1			1680 VA			860 VA	1	20 A	BAS, SERVICE RECP	12		
13	RECEPTACLE	20 A	1	540 VA			250 VA			2	20 A	FCU-4	14		
15	RECEPTACLE	20 A	1		180 VA			250 VA		1	20 A		16		
17	WASHROOM BASEMENT BAR LIGHTING	20 A	1			0 VA			0 VA	1	20 A	WASHROOM LIGHTING - 007, 008	18		
19	WASHROOM BASEMENT BAR LIGHTING	20 A	1	0 VA				0 VA		1	20 A	HANDRAIL LIGHTING - NORTH ENTRANCE	20		
21	Spare	20 A	1		0 VA			0 VA		1	20 A	MAIN HALL 102 / VESTIBULE 101 LIGHTING	22		
23	Spare	20 A	1			0 VA		0 VA		1	20 A	Spare	24		
25	BAR COOLER	20 A	1	180 VA			180 VA			1	20 A	RECEPTACLE	26		
27	ICE MAKER	20 A	1		180 VA			560 VA		1	20 A	POWER	28		
29	RECEPTACLE	20 A	1			180 VA			250 VA	2	20 A	DISHWASHER	30		
31	RECEPTACLE	20 A	1	180 VA			250 VA			1	20 A		32		
33	RECEPTACLE	20 A	1		180 VA			180 VA		1	20 A	RECEPTACLE	34		
35	RECEPTACLE	20 A	1			180 VA			100 VA	1	20 A	TRAP SEAL PRIMER	36		
37	RECEPTACLE	20 A	1	180 VA			617 VA			1	20 A	EXIT SIGN - BAT.E5	38		
39	FCU-5	20 A	2		250 VA			860 VA		1	20 A	EXIT SIGN BAT.E4	40		
41						250 VA			1607 VA	1	20 A	OTHER	42		
43	LIGHTING	20 A	1	120 VA			350 VA			1	20 A	EXIT SIGN BAT.E3	44		
45	LIGHTING - DWELLING UNIT	20 A	1		1474 VA			50 VA		1	20 A	EXIT SIGN BAT.E1	46		
47	EXIT SIGN BAT.E2	20 A	1			460 VA			840 VA	1	20 A	LIGHTING	48		
49	LIGHTING	20 A	1	440 VA			180 VA			1	20 A	RECEPTACLE	50		
51	LIGHTING - DWELLING UNIT	20 A	1		384 VA			180 VA		1	20 A	RECEPTACLE	52		
53	QSN 2 - SERVICE ROOM 016	20 A	1			0 VA			2496 VA	2	20 A	RECEPTACLE	54		
55	QSN 1 - ELEC ROOM 011	20 A	1	0 VA			2496 VA			1	20 A		56		
57	QSN 3 - ELEC ROOM 011	20 A	1		0 VA			500 VA		1	20 A	POWER	58		
59						2496 VA			500 VA	1	20 A	POWER	60		
61	RECEPTACLE	20 A	2	2496 VA			100 VA			1	20 A	POWER: HAND DRYER	62		
63	POWER: HAND DRYER	20 A	1		100 VA			100 VA		1	20 A	POWER: HAND DRYER	64		
65	POWER: HAND DRYER	20 A	1			100 VA			500 VA	1	20 A	POWER: HU-7	66		
67	POWER: FCU-11	20 A	1	500 VA			0 VA			1	20 A	Spare	68		
69	POWER: BAS ROOM 111	20 A	1		500 VA			0 VA		1	20 A	Spare	70		
71	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	72		
Total Load:				10838 VA		7906 VA		13986 VA							
Total Amps:				94 A		66 A		120 A							
Legend:															
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals							
Other		60 VA		100.00%		60 VA		Total Conn. Load: 32722 VA							
Receptacle		15204 VA		82.88%		12602 VA		Total Est. Demand: 30123 VA							
EMERGENCY BATTERY PACK		250 VA		100.00%		250 VA		Total Conn.: 91 A							
								Total Est. Demand: 84 A							
Notes:															

Branch Panel: RP-2B1													
Location: ELEC. CLOSET 006A				Volts: 120/208 Wye				A.I.C. Rating: REFER TO SPECIFICATIONS					
Supply From:				Phases: 3				Mains Type: LUGS					
Mounting: SURFACE				Wires: 4				Mains Rating: 100 A					
Enclosure:								MCB Rating: 100 A					
Notes:													
CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT
1	RECP: SERVICE RECP	20 A	1	720 VA			90 VA			1	20 A	OTHER	2
3	RECP: PROJECTOR	20 A	1		360 VA			0 VA		1	20 A	Spare	4
5	LIGHTING	20 A	1			840 VA			0 VA	1	20 A	Spare	6
7	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	8
9	Spare	20 A	1		0 VA			900 VA		1	20 A	RECP: SERVICE RECP	10
11	Spare	20 A	1			0 VA			0 VA	1	20 A	PARLOUR LIGHTING 106	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 Load:		810 VA		1260 VA		840 VA					
		Total Amps:		7 A		11 A		7 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Other		50 VA		100.00%		50 VA		Total Conn. Load: 2880 VA					
Receptacle		1980 VA				1980 VA		Total Est. Demand: 2880 VA					
								Total Conn.: 8 A					
								Total Est. Demand: 8 A					
Notes:													