



GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. IF NOT INDICATED, CONFIRM EXACT LOCATION WITH ARCHITECT.
- 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.
- PROVIDE FIRE RATED PLYWOOD IN ALL ELECTRICAL AND IT ROOMS AS WELL, PROVIDE FIRE RATED PLYWOOD BEHIND ALL ELECTRICAL PANELS.

KEYNOTE LEGEND

Key value	Keystone 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 PERMIT REVISION
6	2024-08-16	ISSUED FOR ELECTRICAL ADDENDUM B
7	2024-08-28	ISSUED FOR ELECTRICAL ADDENDUM C
8	2024-09-27	ISSUED FOR ELECTRICAL ADDENDUM D
9	2024-10-08	ISSUED FOR ELECTRICAL ADDENDUM E

NOTES:

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QUASAR CONSULTING GROUP

KEY PLAN:

CLIENT:
NEWMARKET

PROJECT:
22275
MULLOCK 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

2024-10-08 4:07:14 PM
Autodesk Docs/AMMOC Estate Adaptive Re-Use/22275_107_CDD_NE_Mark01 E27.rvt

PROJ DATE: 2024-10-08 4:07:14 PM
DRAWN BY: Author
CHECKED BY: Checker

E-300

SCALE 1 : 50

POWER & SYSTEMS LOWER BASEMENT - NEW

Branch Panel: RP-2MECH-01

Location: GEOTHERMAL PUMP ROOM 010
Supply From: MOUNTING: SURFACE ENCLOSURE:
Volts: 120/208 Wye Phases: 3 Wires: 4
A.I.C. Rating: REFER TO SPECIFICATIONS
Mains Type: LUGS
Mains Rating: 600 A
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	15 A	SP-2	8
9					417 VA			920 VA		1	15 A	SP-1	10
11	FCU-3	15 A	2	84 VA		84 VA			920 VA	1	15 A	DRCP-1	12
13				84 VA			288 VA			1	15 A		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									20
21	HWT-2	45 A	3		1833 VA			560 VA		1	20 A	POWER: BB-1	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			2	15 A		26
27	TRAP SEAL SERVICE RECP	20 A	1	1269 VA				84 VA		2	15 A	FCU-6	28
29						680 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	Spare	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			1	20 A	Spare	40
41	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	42
43	Spare	20 A	1	0 VA			0 VA			1	20 A	POWER: EF-1	44
45	POWER: TRAP SEAL PRIMER	20 A	1		500 VA		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
Supply From: MOUNTING: SURFACE ENCLOSURE:
Volts: 120/208 Wye Phases: 3 Wires: 4
A.I.C. Rating: REFER TO SPECIFICATIONS
Mains Type: LUGS
Mains Rating: 225 A
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: ADD 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: ADD MEN AND WOMEN WASHROOMS	6
7	POWER: HAND DRYER	20 A	1	500 VA						1	20 A	POWER: BB-1	8
9	RECP: (WASHROOM 007, 008)	20 A	1		540 VA			560 VA		1	20 A	RECP: ELEVATOR	10
11	POWER: BB-1 (WASHROOM 007, 008)	20 A	1			1680 VA			180 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						1	20 A	RECEPTACLE	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			880 VA	1	20 A	EXIT SIGN BAT.E4	40
41										1	20 A	OTHER	42
43	LIGHTING	20 A	1	120 VA			250 VA		1607 VA	1	20 A	EXIT SIGN BAT.E3	44
45	LIGHTING - DWELLING UNIT	20 A	1		1474 VA			350 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	OSN 2 - SERVICE ROOM 016	20 A	1			0 VA			2496 VA	2	20 A	RECEPTACLE	54
55	OSN 1 - ELEC ROOM 011	20 A	1	0 VA				2496 VA		2	20 A	RECEPTACLE	56
57	OSN 3 - ELEC ROOM 011	20 A	1		0 VA			500 VA		1	20 A	POWER	58
59	RECEPTACLE	20 A	2			2496 VA			500 VA	1	20 A	POWER	60
61				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						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 Total Est. Demand: 30123 VA Total Conn.: 91 A Total Est. Demand: 84 A
Receptacle	15204 VA	82.89%	12602 VA	
EMERGENCY BATTERY PACK	250 VA	100.00%	250 VA	

Notes:

Branch Panel: RP-2B1

Location: ELEC. CLOSET 006A
Supply From: MOUNTING: SURFACE ENCLOSURE:
Volts: 120/208 Wye Phases: 3 Wires: 4
A.I.C. Rating: REFER TO SPECIFICATIONS
Mains Type: LUGS
Mains Rating: 100 A
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						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	90 VA	100.00%	90 VA	Total Conn. Load: 2880 VA Total Est. Demand: 2880 VA Total Conn.: 8 A Total Est. Demand: 8 A
Receptacle	1980 VA	100.00%	1980 VA	

Notes:

Branch Panel: RP-2C1

Location: ELEC. CLOSET 006A
Supply From: MOUNTING: SURFACE ENCLOSURE:
Volts: 120/208 Wye Phases: 3 Wires: 4
A.I.C. Rating: REFER TO SPECIFICATIONS
Mains Type: LUGS
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT
1	OTHER	20 A	1	60 VA			204 VA			1	20 A	RECP: KITCHEN EQUIPMENT	2
3	22 - PANINI PRESS	20 A	1		180 VA			6240 VA		1	20 A	16 - HOT BEVERAGE DISPENSER	4
5	12 - HIGH SPEED OVEN	20 A	1			192 VA			252 VA	1	20 A	RECP: KITCHEN EQUIPMENT	6
7	9 - BACK BAR AND REFRIGERATOR	15 A	1	456 VA			600 VA			1	30 A	17 - ESPRESSO/CAPPUCCINO MACHINE	8
9	RECP: KITCHEN EQUIPMENT	20 A	1		336 VA			336 VA		1	20 A	RECP: 5-20R	10
11	2 - SANDWICH/SALAD REFRIG. COUNTER	15 A	1			336 VA			960 VA	1	20 A	LIGHTING	12
13	RECP: HOUSEKEEPING	20 A	1	876 VA			1800 VA			1	20 A	RECP: KITCHEN EQUIPMENT	14
15	5 - FREEZER UNDERCOUNTER	15 A	1		336 VA			0 VA		1	20 A	Spare	16
17	RECP: KITCHEN EQUIPMENT	20 A	1			2448 VA			84 VA	2	20 A	14 - COFFEE BREWER	18
19	RECP: KITCHEN EQUIPMENT	20 A	1	336 VA			84 VA			1	20 A	Spare	20
21	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	22
23	RECP: KITCHEN EQUIPMENT	20 A	1			336 VA			336 VA	1	20 A	RECP: KITCHEN EQUIPMENT	24
25	RECP: 5-15R	15 A	1	336 VA			336 VA			1	20 A	4 - BAR FRAME & TOP	26
27	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	28
29	6 - SOUP WARMER	15 A	1			336 VA			720 VA	1	20 A	RECP: SERVICE RECP	30
31	Spare	20 A	1	0 VA				0 VA		1	20 A	VERANDAH LIGHTING 115	32
33	POWER: ADD ROOM 101	20 A	1		500 VA			0 VA		1	20 A	MUSIC ROOM LIGHTING 105	34
35	POWER: FAAP	20 A	1			500 VA				1	20 A		36
37													