

Unit	O	5,130 sq.ft.		
Load Description		VA/ft. (or quantity)	VA	Total VA
1 General Lighting:				
a. General lighting & receptacles	3	15,390		
b. Small appliances (2 ckt.)	3	4,500		
c. Laundry circuit	2	2,880		
Total			22,890	22,890
2 Fixed Appliances:			44,145	44,145
3 Cooking (Electric)	1	8,000	8,000	
4 Clothes Dryer	2	5,000	10,000	
5 HVAC:				
a. FCU	6	4,800		
b. BATHROOM EF	10	500		
c. MUA (LARGE)	1	16,000		
d. 0	-	-		
e. 0	-	-		
f. 0	-	-		
g. 0	-	-		
h. 0	-	-		
i. 0	-	-		
j. 0	-	-		
k. 0	-	-		
l. 0	-	-		
Total			21,300	21,300
Total Load:			1,063,335	
Application of Demand Factor (NEC 220-62)				
1 First 10kVA at 100%			10,000	
2 Remaining Load at 40%			30,014	
3 Air Conditioning at 100%			21,300	
Total Load:			61,314	
Total amp at 208V, 3 phase			178	

UNIT LOAD CALCULATION - UNIT O
SCALE: NTS

NUMBERED NOTES:

- RECEPTACLE MOUNTED ON SIDE OF ISLAND NOT MORE THAN 12" BELOW COUNTER TOP SURFACE.
- ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL A DEDICATED 15A/1P 120VAC CIRCUIT FOR SMOKE ALARMS IN DWELLING UNIT. CONNECT ALL SMOKE ALARMS IN RESPECTIVE UNIT TO THE DEDICATED CIRCUIT. REFER TO FIRE SUPPRESSION DRAWINGS FOR LOCATION AND QUANTITIES OF SMOKE ALARMS.
- ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL TWO (2) DPDT (DOUBLE POLE DOUBLE THROW) TRANSFER RELAY WITH 120 VOLT, 3P/3C, 20AMP/120 VOLT CONTACT RATINGS AND NEMA 1 ENCLOSURE IN THE UNIT FOR THE WINE FRIDGE AND THE DESIGNATED DUPLEX RECEPTACLE. SUCH THAT FAILURE OF UTILITY POWER WILL TRANSFER THE LOAD TO THE EMERGENCY CIRCUIT. REFER TO THE PANEL SCHEDULES FOR THE CIRCUITING REQUIREMENT OFF OF THE ELECTRICAL PANEL DEDICATED FOR OPTIONAL STAND-BY LOAD.
- RECEPTACLE NOTED IS TO BE BOCCI - 22-SYSTEM FLUSH MOUNTED OUTLETS. SUPPLY AND INSTALL DEAD FRONT SELF-TEST GFCI SWITCH TO PROVIDE GROUND FAULT PROTECTION TO THE BOCCI - 22-SYSTEM FLUSH MOUNTED OUTLETS. EXACT LOCATION OF THE DEAD FRONT SELF-TEST GFCI SWITCH IS TO BE CONFIRMED WITH INTERIOR DESIGNER PRIOR TO INSTALLATION.
- SUPPLY AND INSTALL WALL MOUNTED J-BOX INSTALLATION OF IN-DRAWERS RECEPTACLES IN-DRAWERS RECEPTACLES ARE TO BE SUPPLIED AND INSTALLED BY OTHERS.
- EXHAUST FANS NOTED ARE TO BE CONTROLLED BY THE LIGHT SWITCH LOCATED IN THE ROOM.

SHEET NOTES:

- DRAWINGS ARE INTENDED TO SHOW GENERAL ARRANGEMENT, DESIGN, AND EXTENT OF WORK AND ARE DIAGRAMMATIC. DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS EXCEPT WHERE DIMENSIONS ARE SHOWN. ELECTRICAL WORK IS SHOWN ON PLANS USING STANDARD INDUSTRY SYMBOLS. BEFORE ORDERING MATERIALS OR DOING WORK, VERIFY MEASUREMENTS PERTAINING THERETO AND ASSUME RESPONSIBILITY THEREFOR. ANY SUBSTANTIAL DIFFERENCES BETWEEN DRAWINGS AND CONDITIONS IN THE FIELD SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER FOR CONSIDERATION BEFORE PROCEEDING WITH WORK.
- WORK PERFORMED INCLUDES LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON THESE DRAWINGS AND AS SPECIFIED. REFER TO ELECTRICAL CONNECTION SCHEDULE FOR CONDUIT, WIRING, COPO, DISCONNECT REQUIREMENTS.
- VERIFY EQUIPMENT SIZES AND POWER REQUIREMENTS FOR EQUIPMENT PROVIDED BY OTHERS.
- ELECTRICAL CONDUITS IN FINISHED SPACES SHALL BE CONCEALED. COORDINATE WITH OTHER TRADES AND USE CHASES AND CEILING SPACES LOCATIONS OF ELECTRICAL JUNCTION BOXES IN FINISHED SPACES SHALL BE APPROVED BY ARCHITECT PRIOR TO ROUGH-IN.
- REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT LOCATION OF HVAC/PLUMBING EQUIPMENT.
- PROVIDE CONDUIT, WIRE AND J-BOXES FOR CIRCUITING SHOWN. QUANTITY AND SIZES OF J-BOXES TO BE DETERMINED BY CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY ELECTRICAL CIRCUITS AFFECTED BY CONSTRUCTION. SUCH CIRCUITS WILL BE REPAIRED IMMEDIATELY. THERE WILL BE NO DISRUPTION OF SERVICE OUTSIDE OF CONSTRUCTION ZONE/AREA.
- PROVIDE TAMPER PROOF RECEPTACLES IN RESIDENTIAL UNITS.
- AT PORCHES, ROUTE FLOOR MOUNTED CONDUIT BETWEEN STRUCTURAL DECK AND RASSED PAVERS. SECURE, SUPPORT, AND SLOPE CONDUIT PER CODE.

BRANCH PANEL: UNIT PLAN - O

Location: LAUNDRY O.05
Main Bus: 400 A
MCB: 250 A
Voltage: 120/208 Vyp
AIC Rating:

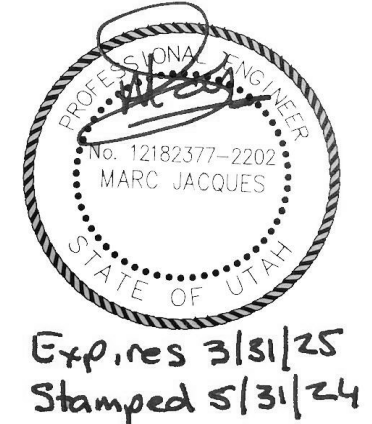
Fed From:
Wires:
Enclosure:
Bus Type:
Mounting:

Neutral Bus:
Ground Bus:
Isolated Ground Bus:
200% Neutral:
Feed Through Lugs:

CKT	Circuit Description	Load Classification	on	Trip	Poles	A	B	C	Poles	Trip	Load Classification	on	Circuit Description	CKT
1	DREYER	RCPTS	30 A	2	2080...	1260...				1	20 A	RCPTS	RCPTS BED 1 O.26	2
3	WASHER	RCPTS	20 A	1		2080...	1620...			1	20 A	RCPTS	RCPTS LIVING O.02	4
5	WASHER	RCPTS	20 A	1	1080...	1440...	180 VA	1080...		1	20 A	RCPTS	RCPTS BATH O.22	6
7	RCPTS CORRIDOR	RCPTS	20 A	1						1	20 A	RCPTS	RCPTS BED O.03	8
9	DISHWASHER	RCPTS	20 A	1			180 VA	1260...		1	20 A	RCPTS	RCPTS BED 2 O.19	10
11	GARBAGE DISPOSAL	RCPTS	20 A	1			180 VA	1440...		1	20 A	RCPTS	RCPTS BED 3 O.18	12
13	HOOD	MISC	20 A	1	0 VA	720 VA				1	20 A	RCPTS	RCPTS BATH 3.4	14
15	RANGE	RCPTS	50 A	2			4160...	720 VA		1	20 A	RCPTS	RCPTS BED 4 O.11	16
17										1	20 A	RCPTS	HID F.R.	18
19	RCPTS LIVING O.02	RCPTS	20 A	1	360 VA	8430...				2	50 A	HVAC	STEAM	20
21	RCPTS LIVING O.02	RCPTS	20 A	1	180 VA	0 VA				1	20 A	RCPTS	RCPTS BED 5 O.10	34
23	RCPTS LIVING O.02	RCPTS	20 A	1			180 VA	180 VA		1	20 A	RCPTS	BIDET	24
25	FREEZER, REF	RCPTS	20 A	1	360 VA	180 VA				1	20 A	RCPTS	BIDET	26
27	COFFEE	RCPTS	20 A	1	180 VA	180 VA				1	20 A	RCPTS	BIDET	28
29	WINE	RCPTS	20 A	1			180 VA	180 VA		1	20 A	RCPTS	BIDET	30
31	MW	RCPTS	20 A	1	180 VA	180 VA				1	20 A	RCPTS	BIDET	32
33	RCPTS	RCPTS	20 A	1			180 VA	1080...		1	20 A	RCPTS	RCPTS BED 5 O.10	34
35	RCPTS LAUNDRY	RCPTS	20 A	1			360 VA	180 VA		1	20 A	RCPTS	RCPTS	36
37	J.B FOR FA	MISC	20 A	1	0 VA	500 VA				1	20 A	HVAC	HEAT TRACE	38
39	DX-A	HVAC	20 A	1	0 VA	3000...				1	20 A	HVAC	CF-A	40
41	RCPTS LAUNDRY	RCPTS	20 A	1			360 VA	2500...		1	20 A	HVAC	CF-A	42
43	Spare	RCPTS	20 A	1	0 VA	500 VA				1	20 A	RCPTS	RCPTS BATH 5 O.08	44
45	RCPTS	RCPTS	20 A	2			0 VA	180 VA		1	20 A	RCPTS	BIDET	46
47										2	20 A	HVAC	FCU-O-1.2	50
49	MUA-O	MTR8	60 A	3	5000...	500 VA				1	20 A	RCPTS	RCPTS BATH 5 O.08	52
51										1	20 A	RCPTS	RCPTS	54
53										1	20 A	RCPTS	RCPTS	56
55	FLUE FAN	MISC	20 A	1	0 VA	1500...				1	20 A	HVAC	FCU-O-3.4	58
57	FIREPLACE	Power	20 A	1	180 VA	500 VA				2	20 A	HVAC	FCU-O-3.4	60
59	RCPTS	RCPTS	20 A	1			180 VA	500 VA		1	20 A	HVAC	HUMIDIFIER BED 1 O.26	62
61	LIGHTING		20 A	1	1500...	0 VA				1	20 A	HVAC	HUMIDIFIER BED 1 O.26	64
63	Spare	MISC	20 A	1	0 VA	0 VA				1	20 A	HVAC	HUMIDIFIER BED 1 O.26	66
65	FLUE FAN	RCPTS	20 A	1	0 VA	500 VA				2	20 A	HVAC	FCU-O-5.6	68
67	FIREPLACE	MISC	20 A	1	180 VA	500 VA				1	20 A	HVAC	FCU-O-7.8	70
69	RCPTS	RCPTS	20 A	1			5200...	500 VA		2	20 A	RCPTS	RCPTS	72
71	HOT TUB	HEAT	70 A	2						1	20 A	RCPTS	RCPTS	74
73	SHADES	Other	20 A	1	5200...	360 VA				1	20 A	HVAC	HUMIDIFIER LIVING O.02	76
75	SHADES	Other	20 A	1			0 VA	0 VA		1	20 A	HVAC	HUMIDIFIER LIVING O.02	78
77	SHADES	Other	20 A	1	0 VA	0 VA				1	20 A	HVAC	HUMIDIFIER LIVING O.02	80
79	SHADES	Other	20 A	1	0 VA	0 VA				1	20 A	HVAC	HUMIDIFIER LIVING O.02	82
81	SHADES	Other	20 A	1	0 VA	0 VA				1	20 A	HVAC	HUMIDIFIER LIVING O.02	84
83	SHADES	Other	20 A	1	21800 VA	25260 VA				1	20 A	HVAC	HUMIDIFIER LIVING O.02	86
Total Load:						32010 VA	21800 VA	25260 VA						
Total Amps:						271 A	186 A	215 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	0 VA		0 VA	
RCPTS	30120 VA		20860 VA	Total Conn. Load: 79130 VA
Spare	5500 VA		5500 VA	Total Est. Demand: 79260 VA
MTR8	15000 VA		18750 VA	Total Conn.: 220 A
HEAT	10400 VA		10400 VA	Total Est. Demand: 202 A
MISC	0 VA		0 VA	
Power	180 VA		180 VA	
HVAC	17930 VA		17930 VA	
Notes:	*See Demand Factor Table			

UNIT PLAN - O LOAD SUMMARY				
Connected Load	Demand Factor	Estimated Demand	Panel Totals	
0 VA		0 VA		
30120 VA		20860 VA	Total Conn. Load: 79130 VA	
5500 VA		5500 VA	Total Est. Demand: 79260 VA	
15000 VA		18750 VA	Total Conn.: 220 A	
10400 VA		10400 VA	Total Est. Demand: 202 A	
0 VA		0 VA		
180 VA		180 VA		
17930 VA		17930 VA		



Reserved for permit stamp

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date: 05/31/2024

revisions:

no. date by

IFC Set 3 of 3
05/31/2024

TOWER C ELECTRICAL
POWER PLAN - UNIT O

E2.4.O

0' 1' 2' 3' 4' 8' 12'