

SERVICE		PANEL W			MAIN			400A			
MTG RECESSED		A.I.C. 42,000*			REMARK		M.L.O.				
BRANCH CIRCUIT	LOAD	PHASE			LOAD(VA)	LOAD	BRANCH CIRCUIT				
NO	DESCRIPTION	A	B	C	A B C	NO	DESCRIPTION	A	B	C	
1	LGT-GENERAL	878			20	1924	SINGLE COFFEE BREWER				2
3	LGT-OFFICE/KITCHEN/BATHROOM	843			20	1924	DUAL COFFEE BREWER				4
5	RECEPT-EXTERIOR				20	2392	DUAL COFFEE BREWER				6
7	RECEPT-OFFICE	720			20	147	CAPPUCCINO MACHINE				8
9	SIGNAGE	1200			20	1800	CREAMER DISPENSER				10
11	RECEPT-TELEPHONE BACKBOARD				20	360	FOUNTAIN MACHINE				12
13	RECEPT-COUNTER	180			20	624	FOUNTAIN ICE MACHINE				14
15	RECEPT-COUNTER	180			20	1800	FROSTER'S MACHINE				16
17	RECEPT-CASH REGISTER				20	2500	S.P.A.R.E.				18
19	COOLER LIGHTING	427			20	2500	S.P.A.R.E.				20
21	COOLER EVAPORATORS				20	2500	S.P.A.R.E.				22
23	COOLER CONDENSER				20	1800	FREAL BLENDER				24
25		1700			20	1800	FREAL FREEZER				26
27	BEER CAVES CONDENSER				20	1435	TEA BREWER				28
29		1700			20	1435	FROZEN BEVERAGE				30
31	BEER CAVES EVAPORATORS	1200			20	1440	FROZEN BEVERAGE				32
33	REACH IN FREEZER				20	1440	PANEL W1				34
35	REACH IN FREEZER				20						36
37	SPARE				20						38
39	SPARE				20						40
41	SPARE				20						42

SERVICE		PANEL			MAIN						
MTG RECESSED		A.I.C.			REMARK		M.L.O.				
BRANCH CIRCUIT	LOAD	PHASE			LOAD(VA)	LOAD	BRANCH CIRCUIT				
NO	DESCRIPTION	A	B	C	A B C	NO	DESCRIPTION	A	B	C	
43	WALK IN COOLER DOOR	400			20	180	RECEPT-CONVENIENCE				44
45	WALK IN COOLER DOOR	400			20		TIME SWITCH TS-1, TS-2				46
47	WALK IN COOLER DOOR	200			20	1000	ATM				48
49	WALK IN COOLER DOOR	200			20						50
51	WALK IN COOLER DOOR	200			20						52
53	WALK IN COOLER DOOR	200			20						54
55	COOLER SIGNS	1200			20						56
57	RECEPT-HVAC	360			20						58
59	RTU-1	4203			50	1500	WH-2				60
61		4203			50	1500	WH-4				62
63		4203			50	1500					64
65	RTU-2	4203			50	1500					66
67		4203			50	1500					68
69		4203			50						70
71	WH-5	2250			30						72
73		2250			30						74
75	WH-1	1500			20						76
77		1500			20						78
79	WH-3	1500			20						80
81		1500			20						82
83	SPARE				20						84

SERVICE		PANEL W1			MAIN			100A			
MTG RECESSED		A.I.C. 18,000			REMARK		M.L.O.				
BRANCH CIRCUIT	LOAD	PHASE			LOAD(VA)	LOAD	BRANCH CIRCUIT				
NO	DESCRIPTION	A	B	C	A B C	NO	DESCRIPTION	A	B	C	
1	SPARE				20						2
3	SPARE				20						4
5	SPARE				20						6
7	SPARE				20						8
9	SPARE				20						10
11	SPARE				20						12
13	SPARE				20						14
15	SPARE				20						16
17	SPARE				20						18
19	SPARE				20						20
21	SPARE				20						22
23	SPARE				20						24
25	SPARE				20						26
27	SPARE				20						28
29	SPARE				20						30
31	SPARE				20						32
33	SPARE				20						34
35	SPARE				20						36
37	SPARE				20						38
39	SPARE				20						40
41	SPARE				20						42

SERVICE		PANEL T			MAIN			200A			
MTG RECESSED		A.I.C. 42,000*			REMARK		M.L.O.				
BRANCH CIRCUIT	LOAD	PHASE			LOAD(VA)	LOAD	BRANCH CIRCUIT				
NO	DESCRIPTION	A	B	C	A B C	NO	DESCRIPTION	A	B	C	
1	LGT-GENERAL	733			20	540	RECEPT-OFFICE CONV				2
3	LGT-OFFICE/RESTROOM	647			20	540	RECEPT-SHOW WINDOW				4
5	RECEPT-OFFICE CONV	720			20	540	RECEPT-OFFICE CONV				6
7	RECEPT-SHOW WINDOW	720			20	720	RECEPT-BREAKROOM CONV				8
9	RECEPT-OFFICE CONV	720			20	180	RECEPT-BREAKROOM COUNTER				10
11	RECEPT-OFFICE CONV				20	180	RECEPT-BREAKROOM COUNTER				12
13	RECEPT-SHOW WINDOW	360			20	360	RECEPT-TELEPHONE BACKBOARD				14
15	RECEPT-SHOW WINDOW	720			20	10	TIME SWITCH TS-1				16
17	RECEPT-HALLWAY CONV				20	1200	SIGNAGE				18
19	RECEPT-HALLWAY CONV	540			20	3482	RTU-3				20
21	RECEPT-DRINK FOUNTAIN				20	3482					22
23	RECEPT-OFFICE CONV				20	180	LGT-EXTERIOR				24
25	RECEPT-HALLWAY CONV	720			20	180	RECEPT-HVAC				26
27	WH-6				20		SPARE				28
29		1500			20		SPARE				30
31	WH-7				20		SPARE				32
33		1500			20		SPARE				34
35	WH-8				50		SPARE				36
37		4150			50		SPARE				38
39	SPARE				20		SPARE				40
41	SPARE				20		SPARE				42

LOAD DESCRIPTION	CONNECTED VA	DEMAND FACTOR	VA DEMAND
LIGHTING - EXTERIOR	0	1.00	0
LIGHTING - INTERIOR	1721	1.25	2151
SIGNAGE	2400	1.25	3000
RECEPTACLES	3280	FIRST 10KW @ 100% REMAINDER @ 50%	3280
KITCHEN EQUIPMENT	49935	0.65	32458
WATER HEATER	16500	1.00	16500
HVAC EQUIPMENT	25218	1.00	25218
3 Ø MOTORS	0	LARGEST MOTOR @ 125% REMAINDER @ 100%	0
1 Ø MOTORS	40	LARGEST MOTOR @ 125% REMAINDER @ 100%	0
MISCELLANEOUS	2000	1.00	2000
TOTALS	99254	DEMAND FACTOR 216.62	78756
CALCULATED SERVICE DEMAND AMPERES			

LOAD DESCRIPTION	CONNECTED VA	DEMAND FACTOR	VA DEMAND
LIGHTING - EXTERIOR	0	1.00	0
LIGHTING - INTERIOR	0	1.25	0
SIGNAGE	0	1.25	0
RECEPTACLES	0	FIRST 10KW @ 100% REMAINDER @ 50%	0
KITCHEN EQUIPMENT	0	0.65	0
WATER HEATER	0	1.00	0
HVAC EQUIPMENT	0	1.00	0
3 Ø MOTORS	0	LARGEST MOTOR @ 125% REMAINDER @ 100%	0
1 Ø MOTORS	0	LARGEST MOTOR @ 125% REMAINDER @ 100%	0
MISCELLANEOUS	0	1.00	0
TOTALS	0	DEMAND FACTOR 0.00	0
CALCULATED SERVICE DEMAND AMPERES			

* - FIELD COORDINATE BASED ON AVAILABLE FAULT CURRENT.
HACR - U.L. LISTED "HACR" TYPE CIRCUIT BREAKER

SERVICE		PANEL HP			MAIN			100A M.L.O.			
MTG SURFACE		A.I.C. 18,000			REMARK		M.L.O.				
BRANCH CIRCUIT	LOAD	PHASE			LOAD(VA)	LOAD	BRANCH CIRCUIT				
NO	DESCRIPTION	A	B	C	A B C	NO	DESCRIPTION	A	B	C	
1	LGT-EXTERIOR	88			20	1296	MONUMENT SIGN (FUTURE)				2
3	PHOTOCELL	10			20		SPARE				4
5	SPARE				20		SPARE				6
7	SPARE				20		SPARE				8
9	SPARE				20		SPARE				10
11	SPARE				20		SPARE				12
13	SPARE				20		SPARE				14
15	SPARE				20		SPARE				16
17	SPARE				20		SPARE				18
19	SPARE				20		SPARE				20
21	SPARE				20		SPARE				22
23	SPARE				20		SPARE				24

LOAD DESCRIPTION	CONNECTED VA	DEMAND FACTOR	VA DEMAND
LIGHTING - EXTERIOR	96	1.00	96
LIGHTING - INTERIOR	0	1.25	0
SIGNAGE	1200	1.25	1500
RECEPTACLES	0	FIRST 10KW @ 100% REMAINDER @ 50%	0
KITCHEN EQUIPMENT	0	0.65	0
WATER HEATER	0	1.00	0
HVAC EQUIPMENT	0	1.00	0
3 Ø MOTORS	0	LARGEST MOTOR @ 125% REMAINDER @ 100%	0
1 Ø MOTORS	0	LARGEST MOTOR @ 125% REMAINDER @ 100%	0
MISCELLANEOUS	10	1.00	10
TOTALS	1306	DEMAND FACTOR 4.46	1606
CALCULATED SERVICE DEMAND AMPERES			

LOAD DESCRIPTION	CONNECTED VA	DEMAND FACTOR	VA DEMAND
LIGHTING - EXTERIOR	180	1.00	180
LIGHTING - INTERIOR	1363	1.25	1704
SIGNAGE	1200	1.25	1500
RECEPTACLES	9880	FIRST 10KW @ 100% REMAINDER @ 50%	9860
KITCHEN EQUIPMENT	0	0.65	0
WATER HEATER	14300	1.00	14300
HVAC EQUIPMENT	10483	1.00	10483
3 Ø MOTORS	0	LARGEST MOTOR @ 125% REMAINDER @ 100%	0
1 Ø MOTORS	0	LARGEST MOTOR @ 125% REMAINDER @ 100%	0
MISCELLANEOUS	10	1.00	10
TOTALS	37376	DEMAND FACTOR 105.53	98017
CALCULATED SERVICE DEMAND AMPERES			

- GENERAL NOTES**
- BRANCH CIRCUIT WIRING SHALL BE AS FOLLOWS:
 - LIGHTING AND POWER NETWORKS: (120/208V, 3Ø, 4W)
 - 100 FEET OR LESS:
 - PHASE - 12 AWG
 - NEUTRAL - 12 AWG
 - GROUND - 10 AWG
 - GREATER THAN 100 FEET:
 - INCREASE ALL CONDUCTORS BY ONE WIRE GAUGE SIZE.
 - TWO NETWORKS MAXIMUM PER CONDUIT.
 - PROVIDE A JUNCTION BOX FOR EACH TELEPHONE AND/OR DATA OUTLET WITH 3/4" C. STUBBED-UP TO 6" ABOVE WALL PARTITION, OR LAY-IN CEILING. PROVIDE BLANK COVERPLATE ON EACH OUTLET.
 - MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED OR INDICATED.
 - EMERGENCY LIGHTING CIRCUITING SHALL BE THE SAME CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.



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 STORE/2ND FLOOR PANEL SCHEDULES
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