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Order Plans @

PANEL DP

LOCATION: BACK ROOM
MOUNTING: SURFACE
FRAME SIZE: 1200
MAIN SIZE: 100 AMP MCB
FED FROM: UTILITY

DISTRIBUTION: 208Y/120V
PHASE: 3
WIRE: 4
FAULT CURRENT RATING (KAIC): 42

BRANCH CIRCUIT DESCRIPTION	KVA	WIRE SIZE	GND SIZE	CB	P	CIRCUIT NO.			WIRE SIZE	GND SIZE	KVA	BRANCH CIRCUIT DESCRIPTION		
						A	B	C						
PANEL L1	8.824	250	4	225	3	1	2	3	225	3	250	4	9.550	PANEL L2
	12.510	250	4	-	-	1	2	3	-	250	4	13.290		
	6.290	250	-	-	-	-	-	-	-	250	-	12.837		
PANEL L3	6.502	250	4	225	3	1	2	3	100	3	3	8	7.433	BALER
	5.218	250	4	-	-	3	4	5	-	3	-	8	7.433	
	3.633	250	-	-	-	-	-	-	-	3	-	8	7.433	
REFRIGERATION RACK (HUSSMAN) (116.2 KVA)	38.733	750	2	350	3	5	6	7	200	3	3/0	6	17.167	RTU-1
	38.733	750	2	-	-	8	9	10	-	3/0	6	17.167		
	38.733	750	-	-	-	11	12	13	-	3/0	6	17.167		
SPARE						7	8	9						SPARE
SPARE						10	11	12						SPARE
SPARE						13	14	15						SPARE
TOTAL CONN. LOAD: 272.655 KVA												PHASE A: 90.01 KVA		
CONNECTED AMPS: 756.81 AMPS												PHASE B: 94.35 KVA		
DEMAND AMPS: 752.86 AMPS												PHASE C: 88.29 KVA		

ELECTRICAL LOAD SUMMARY

LOAD DESCRIPTION	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	CODE SECTION
LIGHTING	29.479	1.25	36.849	N.E.C. 215.2
RECEPTACLES	30.492	10	20.246	N.E.C. 220.44
MOTOR	90.310	1+(0.25)*LARGEST MOTOR	91.740	N.E.C. 220.50
HEATING	1.874	1.0	1.874	N.E.C. 220.51
REFRIGERATION	120.500	1.0	120.500	N.E.C. 440
TOTAL LOAD (KVA)	272.655		271.229	
AMPS	756.81		752.86	

NOTES:
HL - FURNISH WITH HANDLE LOCK.
CC - ROUTE THROUGH CPC CONTACTOR ENCLOSURE. REFER TO DETAIL FOR INFORMATION.
IG - CONNECT CIRCUIT GROUND CONDUCTOR TO ISOLATED GROUND.
** - PROVIDE OTHER TYPE CIRCUIT BREAKER RATING AND LOCK.

PANEL L3

LOCATION: BACK ROOM
MOUNTING: SURFACE
FRAME SIZE: 225
MAIN SIZE: 30 AMP MLO
FED FROM: PANEL DP

DISTRIBUTION: 208Y/120V
PHASE: 3
WIRE: 4
FAULT CURRENT RATING (KAIC): 45

BRANCH CIRCUIT DESCRIPTION	KVA	WIRE SIZE	GND SIZE	CB	P	CIRCUIT NO.			WIRE SIZE	GND SIZE	KVA	BRANCH CIRCUIT DESCRIPTION	
						A	B	C					
ELECTRIC WATER HEATER (EWH-1)	2.000	10	10	25	1	1	2	30	2	10	10	2.200	ROOFTOP UNIT (RTU-2)
WATER COOLING PUMP (RP-1)	0.075	12	12	20	1	3	4	30	-	10	-	2.200	
DOCUMENT LEVELER	0.600	12	12	20	1	5	6	15	2	12	12	1.300	
UNIT HEATERS (UH-1/2)	1.069	12	12	20	1	7	8	15	-	12	-	1.300	SPLIT SYSTEM (HP-1/FCU-1)
EXHAUST FAN (EF-2/EF-3/EF-5)	1.010	12	12	20	1	9	10	20	3	10	10	1.933	
SPARE						11	12	20	-	10	-	1.933	CONDENSATE VACUUM SYSTEM
SPARE						13	14	20	-	10	-	1.933	
SPARE						15	16	20	1				SPARE
SPARE						17	18	20	1				SPARE
SPARE						19	20	20	1				SPARE
SPARE						21	22	20	1				SPARE
SPARE						23	24	20	1				SPARE
SPARE						25	26	20	1				SPARE
SPARE						27	28	20	1				SPARE
SPARE						29	30	20	1				SPARE
SPARE						31	32	20	1				SPARE
SPARE						33	34	20	1				SPARE
SPARE						35	36	20	1				SPARE
SPARE						37	38	20	1				SPARE
SPARE						39	40	20	1				SPARE
SPARE						41	42	20	1				SPARE
TOTAL CONN. LOAD: 17.554 KVA												PHASE A: 8.50 KVA	
CONNECTED AMPS: 48.73 AMPS												PHASE B: 5.22 KVA	
DEMAND AMPS: 52.75 AMPS												PHASE C: 3.83 KVA	

ELECTRICAL LOAD SUMMARY

LOAD DESCRIPTION	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	CODE SECTION
LIGHTING	0.000	1.25	0.000	N.E.C. 215.2
RECEPTACLES	2.000	1	2.000	N.E.C. 220.44
MOTOR	14.485	1+(0.25)*LARGEST MOTOR	15.935	N.E.C. 220.50
HEATING	1.069	1.0	1.069	N.E.C. 220.51
REFRIGERATION	0.000	1.0	0.000	N.E.C. 440
TOTAL LOAD (KVA)	17.554		19.004	
AMPS	48.73		52.75	

PANEL L1

LOCATION: BACK ROOM
MOUNTING: SURFACE
FRAME SIZE: 225
MAIN SIZE: 225 AMP MLO
FED FROM: PANEL DP

DISTRIBUTION: 208Y/120V
PHASE: 3
WIRE: 4
FAULT CURRENT RATING (KAIC): 65

BRANCH CIRCUIT DESCRIPTION	KVA	WIRE SIZE	GND SIZE	CB	P	CIRCUIT NO.			WIRE SIZE	GND SIZE	KVA	BRANCH CIRCUIT DESCRIPTION		
						A	B	C						
NIGHT LIGHTING & SALES AREA EXITS	0.399	10	10	20	1	1	2	20	1	12	12	0.100	OFFICE COUNTER RECEPTACLES	
SALES AREA LIGHTING (PRODUCE)	1.612	10	10	20	1	3	4	20	1	12	12	0.360	BREAKROOM COUNTER GFI RCPT	
SALES AREA LIGHTING (ASLE 6)	1.520	10	10	20	1	5	6	20	1	12	12	0.540	BREAKROOM COUNTER GFI RCPT	
SALES AREA LIGHTING (ASLE 5)	1.376	10	10	20	1	7	8	20	1	12	12	0.800	BREAKROOM REFRIGERATOR	
SALES AREA LIGHTING (ASLE 4)	1.512	10	10	20	1	9	10	20	1	12	12	1.320	BREAKROOM DISHWASHER	
SALES AREA LIGHTING (ASLE 3)	1.456	10	10	20	1	11	12	20	1	12	12	1.152	BREAKROOM GARBAGE DISPOSAL	
SALES AREA LIGHTING (ASLE 2)	1.433	10	10	20	1	13	14	20	1	12	12	0.900	VESTIBULE GFI & SALES AREA RCPT	
SALES AREA LIGHTING (ASLE 1)	1.576	10	10	20	1	15	16	20	1	12	12	0.540	SALES AREA DESTRAIT FANS	
SALES AREA LIGHTING (FRONT ASLE)	1.357	10	10	20	1	17	18	20	1	12	12	0.600	CHECKOUT CONVEYORS	
SALES AREA LIGHTING (CHECKOUT)	1.869	10	10	20	1	19	20	20	1	12	12	0.600	CHECKOUT CONVEYORS	
SALES AREA (ILLUMINATED SIGN BOXES)	0.720	10	10	20	1	21	22	20	1	12	12	0.600	SPARE	
SALES AREA (ILLUMINATED SIGN BOXES)	0.720	10	10	20	1	23	24	20	1	10	10	0.600	AUTO DOOR	
SALES AREA (ILLUMINATED SIGN BOXES)	0.720	10	10	20	1	25	26	20	1	10	10	0.600	AUTO DOOR	
SALES AREA (ILLUMINATED SIGN BOXES)	0.900	10	10	20	1	27	28	20	1	10	10	0.600	AUTO DOOR	
SPARE						29	30	20	1	10	10	0.600	AUTO DOOR	
ILLUMINATED WELCOME SIGN BOX						31	32	20	1	10	10	1.000	WOMEN'S ROOM HAND DRYER (HD-1)	
SPARE						33	34	20	1	10	10	1.000	MEN'S ROOM HAND DRYER (HD-1)	
SPARE						35	36	20	1	12	12	0.400	OFFICE, IT RACK RECEPTACLE	
SPARE						37	38	20	1	12	12	0.800	OFFICE COUNTER RECEPTACLES	
SPARE						39	40	20	1				SPARE	
SPARE						41	42	20	1				SPARE	
SPARE						43	44	20	1				SPARE	
SPARE						45	46	20	1				SPARE	
PARKING SITE LIGHTING	0.100	10	10	15	2	47	48	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.100	10	10	15	2	49	50	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.224	10	10	15	2	51	52	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.224	10	10	15	2	53	54	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.224	10	10	15	2	55	56	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.224	10	10	15	2	57	58	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.224	10	10	15	2	59	60	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.224	10	10	15	2	61	62	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.224	10	10	15	2	63	64	15	11	**	12	12	0.430	SPOT MERCHANDISER
PARKING SITE LIGHTING	0.224	10	10	15	2	65	66	15	11	**	12	12	0.430	SPOT MERCHANDISER
TOTAL CONN. LOAD: 29.424 KVA												PHASE A: 8.62 KVA		
CONNECTED AMPS: 81.67 AMPS												PHASE B: 12.51 KVA		
DEMAND AMPS: 102.09 AMPS												PHASE C: 8.29 KVA		

ELECTRICAL LOAD SUMMARY

LOAD DESCRIPTION	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	CODE SECTION
LIGHTING	29.399	1.25	36.749	N.E.C. 215.2
RECEPTACLES	0.000	1	0.000	N.E.C. 220.44
MOTOR	0.025	1+(0.25)*LARGEST MOTOR	0.031	N.E.C. 220.50
HEATING	0.000	1.0	0.000	N.E.C. 220.51
REFRIGERATION	0.000	1.0	0.000	N.E.C. 440
TOTAL LOAD (KVA)	29.424		36.780	
AMPS	81.67		102.09	

PANEL L2

LOCATION: BACK ROOM
MOUNTING: SURFACE
FRAME SIZE: 225
MAIN SIZE: 225 AMP MLO
FED FROM: PANEL DP

DISTRIBUTION: 208Y/120V
PHASE: 3
WIRE: 4
FAULT CURRENT RATING (KAIC): 65

BRANCH CIRCUIT DESCRIPTION	KVA	WIRE SIZE	GND SIZE	CB	P	CIRCUIT NO.			WIRE SIZE	GND SIZE	KVA	BRANCH CIRCUIT DESCRIPTION	
						A	B	C					
OFFICE, IT RACK RCPT	0.200	12	12	20	1	1	2	20	1	12	12	1.080	BREAKROOM GENERAL RCPT/SMOCCO
OFFICE COUNTER RCPT/SAFE/PSD	0.900	12	12	20	1	3	4	20	1	12	12	0.360	BREAKROOM COUNTER GFI RCPT
OFFICE COUNTER RCPT	1.440	12	12	20	1	5	6	20	1	12	12	0.540	BREAKROOM COUNTER GFI RCPT
SPARE						7	8	20	1	12	12	0.800	BREAKROOM REFRIGERATOR
BACKROOM, UTILITY AREA RCPT	0.720	12	12	20	1	9	10	20	1	12	12	1.320	BREAKROOM DISHWASHER
LIFT CHARGER	1.200	10	10	20	1	11	12	20	1	12	12	1.152	BREAKROOM GARBAGE DISPOSAL
LIFT CHARGER	1.200	10	10	20	1	13	14	20	1	12	12	0.900	VESTIBULE GFI & SALES AREA RCPT
LIFT CHARGER	1.200	10	10	20	1	15	16	20	1	12	12	0.540	SALES AREA DESTRAIT FANS
LIFT CHARGER	1.200	10	10	20	1	17	18	20	1	12	12	0.600	CHECKOUT CONVEYORS
SP													