PANEL A

LOCATION: ELEC RM — VOLTAGE: 208Y/120V — TRIM: SURFACE
MAIN: 400A MLO — SYSTEM: 3ø, 4W — BUS RATING 400A
CONN. LOAD: 89.2 KVA — FEED: TOP — GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	(+,L) HEAT TRACE	1/2"	#12	#12	#12	20/1	N	180 730			N	20/1	1/2"	#12	#12	#12	REACH IN FREEZER	2
3	PASTRY CASE	1/2"	#12	#12	#12	20/1	N		360 900		R	20/1	1/2"	#12	#12	#12	SERVICE RECEPT.	4
5	TOUCH SCREEN TEA	1/2"	#12	#12	#12	20/1	K			240 –	–	20/1	–	–	–	–	SPARE	6
7	RESTROOM RECEPT.	1/2"	#12	#12	#12	20/1	R	720 1500			K	20/1	1/2"	#12	#12	#12	CAPPUCCINO	8
9	SALES AREA RECEPT.	1/2"	#12	#12	#12	20/1	R		180 1280		K	20/2	1/2"	#12	#12	#12	HOT DOG ROLLER	10
11	MILK REFRIG.	1/2"	#12	#12	#12	20/1	N			900 1280	K	–	–	#12	–	–	"	12
13	NITRON COLD DRAFT	1/2"	#12	#12	#12	20/1	N	540 540			K	20/1	1/2"	#12	#12	#12	SANDEN HOT DISPLAY	14
15	OPEN DISPLAY MERCH.	1/2"	#12	#12	#12	20/1	N		830 –		–	20/1	–	–	–	–	SPARE	16
17	SINK RECEPT.	1/2"	#12	#12	#12	20/1	R			180 1490	K	20/2	1/2"	#12	#12	#12	CUSTOMER MICROWAVE	18
19	HOT DOG ROLLER	1/2"	#12	#12	#12	20/2	K	1280 1490			K	–	–	#12	–	–	"	20
21	"	–	#12	–	–	–	K		1280 2100		K	30/2	1/2"	#10	#10	#10	SLURPEE-4B	22
23	SOFT HEAT COFFEE	3/4"	#8	#8	#10	40/2	K			2600 2100	K			#10			"	24
25	"		#8				K	2600 1560			N	20/2	1/2"	#12	#12	#12	NOVELTY CASE	26
27	FRANKE COFFEE BREWER	1/2"	#10	#10	#10	30/2	K		2600 1560		N			#12			"	28
29	"		#10				K			2600 6040	A	70/3	1-1/4"	#4	#4	#8	RTU-1	30
31	COOKSTATION POWER SRTIP	1/2"	#12	#12	#12	20/1	K	360 6040			A			#4			"	32
33	BUN WARMER	1/2"	#12	#12	#12	20/2	K		100 6040		A			#4			"	34
35	"		#12				K			100 180	N	20/1	1/2"	#12	#12	#12	CONDIMENT COUNTER	36
37	FLEXPACK-TCP-2A	1"	#8	#8	#8	50/3	N	4428 360			N	20/1	1"	#12	#12	#6	6' SANDWITCH CASE	38
39	"		#8				N		4428 1490		K	20/2	1/2"	#12	#12	#12	CUSTOMER MICROWAVE	40
41	"		#8				N			4428 1490	K	–	–	#12	–	–	"	42
43	SPARE	–	–	–	–	20/1	–	– 600			M	20/1	1/2"	#12	#12	#12	RECIRULATION PUMP	44
45	SPARE	–	–	–	–	20/1	–		– 380		N	20/1	1/2"	#12	#12	#12	CO2 MONITOR	46
47	BNB SYRUP	1/2"	#12	#12	#12	20/1	N			180 2520	K	30/2	3/4"	#10	#10	#10	COUNTER TOP OVEN	48
49	UNDER COUNTER FRIDGE	1/2"	#12	#12	#12	20/1	N	280 2520			K			#10			"	50
51	SANDEN HOT FOOD DISPENSER	1/2"	#12	#12	#12	20/1	K		1100 2880		K	30/2	3/4"	#10	#10	#10	SPECIALTY COFFEE	52
53	BNB SYRUP	1/2"	#12	#12	#12	20/1	N			180 2880	K			#10			"	54
	INTERRUPT RATING: SERIES RATED							27708	29788	31688							FROM: PANEL MDP	

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	0	1.25	0
RECEPTS TO 10 KVA	1980	1.0	1980
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	24120	1.0	24120

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	600	1.0	600
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	41020	0.65	26663

REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON-CONTINUOUS LOADS	21464	1.0	21464
DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	89.2 KVA	247.7 AMPS	
MIN. FEEDER/PANEL CAP.	74.8 KVA	207.9 AMPS	
OVERALL DEMAND FACTOR	0.84		

Note 1. Feeder size: SEE RISER DIAGRAM

PANEL B

LOCATION: ELEC. RM — VOLTAGE: 208Y/120V — TRIM: SURFACE
MAIN: 400A MLO — SYSTEM: 3ø, 4W — BUS RATING 400A
CONN. LOAD: 91.8 KVA — FEED: TOP — GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	EXTERIOR ICE MERCH	3/4"	#12	#12	#12	20/1	N	180 360			R	20/1	3/4"	#12	#12	#12	CONV. RECEPT	2
3	FSD POP OUTLET	3/4"	#12	#12	#12	20/1	R		180 1540		N	20/1	3/4"	#12	#12	#12	(L) WIC DOOR HEATER	4
5	FCB POP OUTLET	3/4"	#12	#12	#12	20/1	R			180 900	N	20/1	3/4"	#12	#12	#12	LANCER FSD	6
7	UNDERCOUNTER FREEZER	3/4"	#12	#12	#12	20/1	N	640 –			–	20/1	–	–	–	–	SPARE	8
9	DOOR BUZZER	3/4"	#12	#12	#12	20/1	N		720 1280		N	20/1	3/4"	#12	#12	#12	FREEZER	10
11	UNDERCOUNTER FRIDGE	3/4"	#12	#12	#12	20/1	N			260 1500	N	20/1	3/4"	#12	#12	#12	(L) HAND DRYER	12
13	WISCO HOT HOLD	3/4"	#12	#12	#12	20/1	K	820 1440			N	20/2	3/4"	#12	#12	#12	FREEZER EVAPORATOR	14
15	(L) HAND DRYER	3/4"	#12	#12	#12	20/1	N		1500 1440		N			#12			"	16
17	3' SANDWICH CASE	3/4"	#12	#12	#12	20/1	N			360 –	–	20/1	–	–	–	–	SPARE	18
19	W.I.C EVAPORATOR	3/4"	#12	#12	#12	20/2	N	830 1300			N	20/1	3/4"	#12	#12	#12	HEATED CABINET	20
21	"		#12				N		830 1800		N	20/2	3/4"	#12	#12	#12	FROZEN DRINK COND.-CU-2	22
23	SLURPEE-4B	3/4"	#10	#10	#10	30/2	K			2100 1800	N			#12			"	24
25	"		#10				K	2100 1640			N	20/1	3/4"	#12	#12	#12	ICE MAKER	26
27	TURBO CHEF OVEN	3/4"	#10	#10	#10	30/2	K		2400 480		N	20/1	3/4"	#12	#12	#12	COLD WELL	28
29	"		#10				K			2400 3000	W	50/3	3/4"	#8	#8	#10	WATER HEATER	30
31	FLEXPACK-TCP-2B	3/4"	#10	#10	#10	30/3	N	2724 3000			W			#8			"	32
33	"		#10				N		2724 3000		W			#8			"	34
35	"		#10				N			2724 2600	K	40/2	3/4"	#8	#8	#10	SOFT HEAT COFFEE	36
37	RTU-2	1-1/4"	#4	#4	#8	70/3	A	8040 2600			K			#8			"	38
39	"		#4				A		8040 960		K	20/1	3/4"	#12	#12	#12	CHILLI CHEESE DISPENSER	40
41	"		#4				A			8040 600	N	20/1	3/4"	#12	#12	#12	CONDENSATE EVAPORATION PAN	42
43	BEER CAVE CONDENSING UNIT (CU-1)	3/4"	#10	#10	#10	25/3	A	2400 2111			N	30/2	3/4"	#10	–	#10	2 DOOR ICE MERCHANDISER	44
45	"		#10				A		2400 2111		N			#10			"	46
47	"		#10				A			2400 –	–	20/1	–	–	–	–	SPARE	48
49	SPARE	–	–	–	–	20/1	–	– 1800			K	15/1	3/4"	#12	#12	#12	SANDWICH PRESS	50
51	SPARE	–	–	–	–	20/1	–		– –		–	20/1	–	–	–	–	SPARE	52
53	SPARE	–	–	–	–	20/1	–			– –	–	20/1	–	–	–	–	SPARE	54
	INTERRUPT RATING: SERIES RATED							31785	31185	28864							FROM: EXISTING LANDLORD SERVICE	

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	0	1.25	0
RECEPTS TO 10 KVA	720	1.0	720
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	31320	1.0	31320

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	9000	1.0	9000
KITCHEN EQUIP.	17780	0.65	11557

REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON-CONTINUOUS LOADS	33014	1.0	33014
MISC. DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	91.8 KVA	255.1 AMPS	
TOTAL DEMAND LOAD	85.6 KVA	237.8 AMPS	

Note 1. Feeder size: SEE RISER DIAGRAM

PANEL F

LOCATION: ELEC RM — VOLTAGE: 120/208V — TRIM: SURFACE
MAIN: 100A MLO — SYSTEM: 1ø, 3W — BUS RATING 100A
CONN. LOAD: 13.4 KVA — FEED: TOP — GROUND BUS: YES — ISOLATED GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	DISPENSER #1	1/2"	#12	#12	#12	20/1	N	1008 1008			N	20/1	1/2"	#12	#12	#12	DISPENSER #2	2
3	SWITCHED NEUTRAL	–	–	–	–	–	–		– –		–	–	–	–	–	–	SWITCHED NEUTRAL	4
5	DISPENSER #3	1/2"	#12	#12	#12	20/1	N	1008 1008			N	20/1	1/2"	#12	#12	#12	DISPENSER #4	6
7	SWITCHED NEUTRAL	–	–	–	–	–	–		– –		–	–	–	–	–	–	SWITCHED NEUTRAL	8
9	DISPENSER #5	1/2"	#12	#12	#12	20/1	N	1008 1008			N	20/1	1/2"	#12	#12	#12	DISPENSER #6	10
11	SWITCHED NEUTRAL	–	–	–	–	–	–		– –		–	–	–	–	–	–	SWITCHED NEUTRAL	12
13	SPACE	–	–	–	–	–	–	– –			–	–	–	–	–	–	SPACE	14
15	SPACE	–	–	–	–	–	–		– –		–	–	–	–	–	–	SPACE	16
17	RUL STP	1/2"	#12	#12	#12	20/2	N	1210 1210			N	20/2	1/2"	#12	#12	#12	PUL STP	18
19	"	–	#12	–	–	–	N		1210 1210		N	–	–	#12	–	–	"	20
21	D-BOX CONTROLER	1/2"	#12	#12	#12	20/1	N	11 1080			N	20/1	1/2"	#12	#12	#12	DSL STP	22
23	SPACE	–	–	–	–	–	–		– 1080		N	–	–	#12	–	–	"	24
25	SPACE	–	–	–	–	–	–	– –			–	–	–	–	–	–	SPACE	26
27	LOW VOLTAGE DISC.	1/2"	#12	#12	#12	20/1	N		360 –		–	–	–	–	–	–	SPACE	28
29	SPACE	–	–	–	–	–	–	– –			–	–	–	–	–	–	SPACE	30
	INTERRUPT RATING: SERIES RATED							9569	[illegible]								FROM: PANEL L	

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	0	1.25	0
RECEPTS TO 10 KVA	0	1.0	0
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	1.0	0

REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON-CONTINUOUS LOADS	13439	1.0	13439
DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	13.4 KVA	64.6 AMPS	
MIN. FEEDER/PANEL CAP.	13.4 KVA	64.6 AMPS	
OVERALL DEMAND FACTOR	1.00		

~~Note 1. Feeder size: SEE RISER DIAGRAM~~
Note 2. NEED TO COORDINATE WITH FUEL PLAN WHEN THEY WILL BE AVAILABLE FOR REVIEW. SHOW PRE PREFERENCE PURPOSES ONLY (1)

PANEL S

LOCATION: ELEC RM — VOLTAGE: 208Y/120V — TRIM: SURFACE
MAIN: 100A MLO — SYSTEM: 3ø, 4W — BUS RATING 100A
CONN. LOAD: 7.9 KVA — FEED: TOP — GROUND BUS: YES — ISOLATE GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	VERIPHONE	3/4"	#12	#12	#12	20/1	R	40 180			R	20/1	3/4"	#12	#12	#12	ATM	2
3	REDBOX KIOSK	3/4"	#12	#12	#12	20/1	R		1540 360		R	20/1	3/4"	#12	#12	#12	SECURITY ALARM	4
5	(L) VEEDER ROOT	3/4"	#12	#12	#12	20/1	R			210 360	R	20/1	3/4"	#12	#12	#12	MGR'S DESK QUAD	6
7	TIDEL SENTINEL	3/4"	#12	#12	#12	20/1	R	180 360			R	20/1	3/4"	#12	#12	#12	WORKSTATION QUAD	8
9	SPARE	–	–	–	–	20/1	–		– 360		R	20/1	3/4"	#12	#12	#12	WORKSTATION QUAD	10
11	CASH REGISTER	3/4"	#12	#12	#12	20/1	R			230 180	R	20/1	3/4"	#12	#12	#12	WORKSTATION RECEPT	12
13	SALES COUNTER LOTTO	3/4"	#12	#12	#12	20/1	R	350 180			R	30/3	3/4"	#10	#10	#10	SPD	14
15	OFFICE CONTROLLED RECEPT.	3/4"	#12	#12	#12	20/1	R		180 180		R			#10			"	16
17	CASH REGISTER	3/4"	#12	#12	#12	20/1	R			230 180	R			#10			"	18
19	EBT	3/4"	#12	#12	#12	20/1	R	800 360			N	15/1	3/4"	#12	#12	#12	DIGITAL MENU BOARD	20
21	OFFICE CONTROLLED RECEPT.	3/4"	#12	#12	#12	20/1	R		180 360		N	15/1	3/4"	#12	#12	#12	DIGITAL MENU BOARD	22
23	EMS PANEL	3/4"	#12	#12	#12	20/1	R			180 180	R	20/1	3/4"	#12	#12	#12	EDH/SURGE SUPP.	24
25	MONEY ORDER	3/4"	#12	#12	#12	20/1	R	180 –			–	20/1	–	–	–	–	SPARE	26
27	SPARE	–	–	–	–	20/1	–		– –		–	20/1	–	–	–	–	SPARE	28
29	INTERCOM	3/4"	#12	#12	#12	20/1	R			180 180	R	20/1	3/4"	#12	#12	#12	TELEPHONE BOARD	30
	INTERRUPT RATING: SERIES RATED							2630	3160	2110							FROM: PANEL MDP	

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	0	1.25	0
RECEPTS TO 10 KVA	7180	1.0	7180
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	1.0	0

REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON-CONTINUOUS LOADS	720	1.0	720
DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	7.9 KVA	21.9 AMPS	
MIN. FEEDER/PANEL CAP.	7.9 KVA	21.9 AMPS	
OVERALL DEMAND FACTOR	1.00		

Note 1. Feeder size: SEE RISER DIAGRAM
Note 2. (L) INDICATES LOCKING DEVICE

PANEL MDP

LOCATION: EXTERIOR — VOLTAGE: 208Y/120V — TRIM: SURFACE
MAIN: 1200A MLO — SYSTEM: 3ø, 4W — BUS RATING 1200A
CONN. LOAD: 327.5 KVA — FEED: TOP — GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	KIRK KEY- MAIN	SEE RISER DIAGRAM				1200/3	–	27528			SF	400/3	SEE RISER DIAGRAM				PANEL A	2
	"						–		30148		SF						"	
	"						–			31688	SF						"	
3	KIRK KEY- GENERATOR	SEE RISER DIAGRAM				1200/3	–	31785			SF	400/3	SEE RISER DIAGRAM				PANEL B	4
	"						–		31185		SF						"	
	"						–			28864	SF						"	
5	PANEL CW	2-1/2"	#4/0	#4/0	#4	225/3	SF	41360 10888			SF	200/3	SEE RISER DIAGRAM				PANEL L	6
	"		#4/0				SF		38304 10888		SF						"	
	"		#4/0				SF			37894 10888	SF						"	
7	SPACE	–	–	–	–	–/3	–	2990			SF	100/3	SEE RISER DIAGRAM				PANEL S	8
	"		–				–		3160		SF						"	
	"		–				–			2110	SF						"	
	INTERRUPT RATING: 65,000 AIC							114491	112237	112753							FROM: 300 KVA UTILITY TRANSFORMER	

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	17496	1.25	21870
RECEPTS TO 10 KVA	10000	1.0	10000
RECEPTS REMAINING	920	0.5	460
SPACE HEATING	0	0.0	0
AIR CONDITIONING	55440	1.0	55440

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	29400	1.0	29400
LARGEST MOTOR	0	0.25	0
WATER HEATING	9000	1.0	9000
KITCHEN EQUIP.	59160	1.0	38454

REMAINING CONTINUOUS LOADS	1560	1.25	1950
REMAINING NON-CONTINUOUS LOADS	144481	1.0	144481
DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	327.5 KVA	909.6 AMPS	
MIN. FEEDER/PANEL CAP.	311.1 KVA	864 AMPS	
OVERALL DEMAND FACTOR	0.95		

Note 1. Feeder size: SEE RISER DIAGRAM

PANEL L

LOCATION: ELEC RM — VOLTAGE: 208Y/120V — TRIM: SURFACE
MAIN: 225A MLO — SYSTEM: 3ø, 4W — BUS RATING 225A
CONN. LOAD: 32.7 KVA — FEED: TOP — GROUND BUS: YES

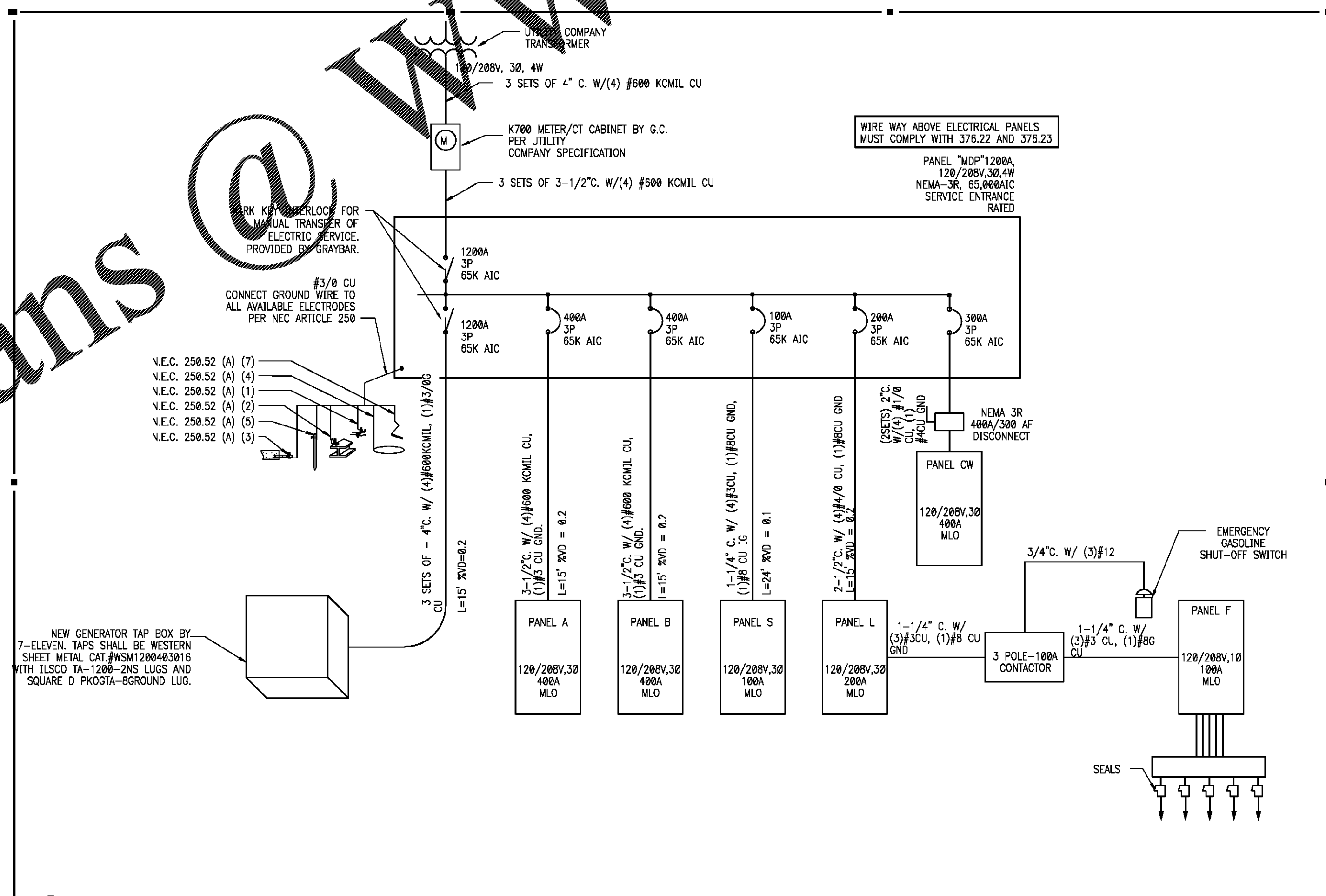
CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	SPARE	–	–	–	–	20/1	–	– 360			L	20/1	3/4"	#12	#12	#12	LIGHTING CONTACTOR	2
3	(B) B.O.H LIGHTS,EF-1 & EF-2	3/4"	#12	#12	#12	20/1	L		470 300		L	20/1	3/4"	#12	#12	#12	ATM SIGN	4
5	SPARE	–	–	–	–	20/1	–			– –	–	20/1	–	–	–	–	SPARE	6
7	WALL CLOCK	3/4"	#12	#12	#12	20/1	R	180 –			–	20/1	–	–	–	–	SPARE	8
9	CIG MERC RECEPT.	3/4"	#12	#12	#12	20/1	L		180 230		L	20/1	3/4"	#12	#12	#12	BST PUMP ALARM	10
11	SPARE	–	–	–	–	20/1	–			– –	–	20/1	–	–	–	–	SPARE	12
13	(L) COOLER LIGHTS	3/4"	#12	#12	#12	20/1	L	140 720			L	20/1	3/4"	#12	#12	#12	WINDOW RECEPT.	14
15	(L) COOLER DOOR LIGHTS	3/4"	#12	#12	#12	20/1	L		540 500		R	20/1	3/4"	#12	#12	#12	LOTTO SIGN	16
17	SPARE	–	–	–	–	20/1	–			– –	–	20/1	–	–	–	–	SPARE	18
19	(B) SALES AREA LIGHTS	3/4"	#12	#12	#12	20/1	L	1040 790			L	20/1	3/4"	#12	#12	#12	(L) EXTERIOR LIGHTS	20
21	(B) SALES AREA LIGHTS	3/4"	#12	#12	#12	20/1	L		1060 1200		L	20/1	3/4"	#12	#12	#12	(L) EXTERIOR SIGN	22
23	(L) EXTERIOR SIGN	3/4"	#12	#12	#12	20/1	L			1200 600	N	20/1	–	#12	#12	#12	(FUTURE) IRRIGATION CONTROL	24
25	(L) EXTERIOR SIGN	3/4"	#12	#12	#12	20/1	L	1200 –			–	–	–	–	–	–	SPACE	26
27	(L) EXTERIOR SIGN	3/4"	#12	#12	#12	20/1	L		1200 600		L	20/1	1"	#10	#10	#10	(FUTURE)(L) CANOPY SIGNAGE	28
29	(FUTURE)(L) SITE LIGHTS	1"	#10	#10	#10	20/1	L			1028 –	–	–	–	–	–	–	SPACE	30
31	(FUTURE)(L) SITE LIGHTS	1"	#10	#10	#10	20/1	L	1028 900			L	20/1	1"	#10	#10	#10	(FUTURE)(L) CANOPY LIGHTS	32
33	E-STOP	3/4"	#12	#12	#12	20/1	L		100 900		L	20/1	1"	#10	#10	#10	(FUTURE)(L) CANOPY LIGHTS	34
35	SPACE	–	–	–	–	–	–			– 9569	SF	100/2	SEE RISER DIAGRAM				PANEL F	36
37	(FUTURE)(L) PRICE CHANGER	1"	#10	#10	#10	20/1	L	600 3870			SF						"	38
39	(FUTURE)(L) MONUMENT SIGN	1"	#10	#10	#10	20/1	L		600 1580		C	20/1	1"	#10	#10	#10	(FUTURE)(L) AIR VAC	40
41	SPACE	–	–	–	–	–	–			– –	–	20/1	–	–	–	–	SPARE	42
	INTERRUPT RATING: SERIES RATED							10828	9440	12397							FROM: PANEL MDP	

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	16386	1.25	20483
RECEPTS TO 10 KVA	680	1.0	680
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	1.0	0

REMAINING CONTINUOUS LOADS	1560	1.25	1950
REMAINING NON-CONTINUOUS LOADS	14039	1.0	14039
DEMAND LOADS	0	1.0	[illegible]
TOTAL CONNECTED LOAD	32.7 KVA	[illegible] AMPS	
MIN. FEEDER/PANEL CAP.	37.2 KVA	103.[illegible] AMPS	
OVERALL DEMAND FACTOR	1.14		

Note 1. Feeder size: SEE RISER DIAGRAM
Note 2. (B) INDICATES BLOCKING DEVICE
~~Note 3. (L) INDICATES LOCKING DEVICE~~
Note 3. CANOPY CIRCUIT FOR LIGHTING & SIGNAGE FOR REFERENCE PURPOSE ONLY NEED TO COORDINATE WHEN FUEL PLAN ARE READY (1)



(2) ONE-LINE DIAGRAM — NTS

FAULT CURRENT CALCULATION

TRANSFORMER SIZE (KVA)	300
TRANSFORMER Z (%)	1.65
"C" FACTOR (#600 KCMIL COND.)	28,033
NUMBER OF CONDUCTORS PER PHASE	3
LINE TO LINE VOLTAGE	208
LINE TO NEUTRAL VOLTAGE	120
LENGTH OF SERVICE	40

$$I = \frac{300 \times 1000}{1.73 \times 208} = 833$$

$$I(sca) = \frac{833 \times 100}{1.65} = 50{,}468$$

$$F = \frac{50{,}468 \times 1.73 \times 40}{3 \times 28{,}033 \times 208} = 0.20$$

$$M = \frac{1}{1+0.20} = \frac{1}{1.20} = 0.83$$

$$\text{Isc AT MAIN DISTRIBUTION PANEL} = 50{,}468 \times 0.83 = 42{,}060$$

CALCULATED SERVICE EQUIPMENT RATING = 42,060

SERVICE EQUIPMENT RATING PER 7-ELEVEN REQUIREMENTS = 65,000

ANY CHANGES TO THE SUPPLY POWER , OR INTERNAL ELECTRICL SYSTEM THAT COULD CAUSE THIS UTILITY FURNISHED OR CALCULATED VALUE TO INCREASE SHALL BE EVIDENCE THAT A QUALIFIED PERSON REPEAT THE CALCULATIONS AND ADJUSTMENTS TO THE SYSTEM IF REQUIRED. (AFTER REVISION , CHANGE THIS LABEL TO REFLECT REVISED DATA AND NEW DATA) PLACE ON A VISIBLE SURFACE OF THE SERVICE ENTRANCE DISCONNECT. USE A LABEL THAT HAS MINIMUM 1/8" HIGH LETTERING AND SUITABLE FOR THE ENVIRONMENT AT THE LOCATION.

SQUARE D – SERIES RATING – 65,000 AIC rev. 7/2013

MAIN BREAKERS			SUB PANEL BREAKERS			
BREAKER TYPE (2-POLE / 3-POLE)			BREAKER TYPE	1-POLE	2-POLE	3-POLE
240V MAX.	HG 15-150A	150-250A JG	QO(B) 10K AIC	15-70A	15-125A	15-100A
			QO(B)VH 22K AIC	N/A	N/A	35-150A
240V MAX.	QG 70-225A		QO(B) 10K AIC	15-70A	15-125A	15-30A
			QO(B)VH 22K AIC	N/A	150A	35-150A

IN ACCORDANCE WITH NEC 240.86(C), SUM OF MOTOR FULL-LOAD CURRENTS WITHIN EACH PANELBOARD DOES NOT EXCEED 1%%% OF THE LOWEST INTERRUPTING RATING OF THE BRANCH CIRCUIT'S BREAKERS WITHIN EACH PANELBOARD. BREAKERS RATED 10K AIC – 10,000 x .01 = 100A BREAKERS RATED 22K AIC – 22,000 x .01 = 220A

ELECTRICAL CONTRACTOR TO AFFIX A PERMANENT LABEL AT SERVICE ENTRANCE IN ACCORDANCE WITH NEC SECTION 110-22 (C), MARKING SHALL READ :"CAUTION – SERIES COMBINATION SYSTEM RATED 65,000 AMPS, IDENTIFIED REPLACEMENT COMPONENTS REQUIRED."

ALL CIRCUIT BREAKERS IN PANELBOARDS "A", "B", "L", "S" SHALL BE SERIES RATED FOR THE AVAILABLE SHORT CIRCUIT CURRENT – 65,000 AMPS MINIMUM. DISTRUBUTION BREAKERS SHALL PROTECT ALL DOWNSTREAM PANELBOARD BREAKERS.

SYMBOL LEGEND

- (N) INDICATES NEW
- °(E) INDICATES EXISTING
- (*) INDICATES EXISTING TO EXTEND
- (L) INDICATES LOCKING DEVICE
- (B) INDICATES BLOCKING DEVICE
- (G) INDICATES GFCI BREAKER
- (+) INDICATES 30mA TRIP GFCI BREAKER
- BREAKER
- FUSE
- SWITCH
- CURRENT TRANSFORMER (CT)

NOTE: NOT ALL SYMBOLS ARE USED

GENERAL ONE-LINE NOTES

1. CLEARLY LABEL MAIN ELECTRICAL SERVICE DISCONNECT(S) PER NEC.
2. PROVIDE ARC FLASH LABELING AS REQUIRED PER NEC 110.16
3. AMPACITY OF ALL CONDUCTOR SIZES SHOWN IS BASED ON 75'CRATED TERMINATIONS AND CONDUCTORS WITH 75'C TYPE INSULATION. CONTRACTOR SHALL FIELD VERIFY TERMINATION RATINGS OF ELECTRICAL EQUIPMENT AND ADJUST CONDUCTOR SIZES AS REQUIRED PER NEC 110.14(C)
4. ALL NEW OVERCURRENT DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE SERIES RATING TABLE OF IDENTIFIED COMPONENTS.
5. ALL NEW PANELS ARE PROVIDED BY 7-ELEVEN, INSTALLED BY GC. ALL PANELBOARD FEEDERS TO BE PROVIDED AND INSTALLED BY GC.
6. G.C. TO PROVIDE AND INSTALL UTILITY METER AND NEW ELECTRICAL SERVICE ENTRANCE. COORDINATE EXACT REQUIREMENTS WITH POWER UTILITY PRIOR TO COMMENCEMENT OF WORK.
7. ELECTRICAL GC TO COORDINATE ALL FUEL REQUIREMENTS WITH FUELING GC. THE ELECTRICAL GC WILL PROVIDE ALL NECESSARY CONDUITS, SEAL-OFFS, TROUGHS AND RACEWAYS FROM THE ELECTRICAL ROOM OR PANEL AREA TO THE EXTERIOR OF THEBUILDING, BUT NOT TO EXCEED 10 FEET FROM THE EXTERIOR BUILDING EDGE. ALL OTHER EQUIPMENT, WIRE, LABOR FOR THE COMPLETION OF THE FUEL SYSTEM TO BE PROVIDED BY THE FUELING GC.

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NO	DATE	REMARKS
1	03.18.19	PEER COMMENTS

REVISIONS

BID SET
JUNE 27, 2019

7-ELEVEN
STORE #38777

12060 US 301 N
PARRISH, FL
34219

PROJECT NO: 2018.0891
DATE: FEBRUARY 26, 2019

E1.1

PANEL SCHEDULES AND ONE-LINE DIAGRAM

CHECKED: BKJ DRAWN: MM

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