PANELBOARD SCHEDULE — MP

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	MP	SWITCH RATED:	SW	KVA PHASE A	109
MANUFACTURER / TYPE:	SQ-D / I-LINE	ISOLATED GROUND:	IG	KVA PHASE B	106
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	95.6
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	908
MAIN TYPE / CU BUS AMPS:	MLO / 1000 AMP	SHUNT TRIP:	ST	AMPS PHASE B	887
AIC RATING:	65000	LOCK-ON:	LO	AMPS PHASE C	797
MOUNTING:	SURFACE	NOTES: THE SERVICE IS PER THE NEC RULE FOR SIX MAIN DISCONNECTS.		KVA CONNECTED	311
NEMA RATING:	3R			KVA DIVERSIFIED	290
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	863
				AMPS DIVERSIFIED	805

CIR NO.	LOAD DESCRIPTION	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	LOAD DESCRIPTION	CIR NO.
1	PANEL "K"		23.92	225/3	A	100/3	6.08		PANEL "L"	2
	(SUB-FEEDS "T")		25.44	–	B	–	7.31			
			18.99	–	C	–	6.85			
3	PANEL "P"		9.95	225/3	A	600/3	51.83		PANEL "H"	4
	(SUB-FEEDS "POS")		9.18	–	B	–	50.33			
			7.48	–	C	–	50.33			
5	SPACE			X/3	A	225/3	17.15		PANEL "OL"	6
				–	B	–	14.23			
				–	C	–	11.94			

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR) =	DIVERSIFIED KVA
LIGHTING	L	32.100	1.25	40.125
EGRESS LIGHTING	EL	0.200	1.25	0.250
RECEPTACLES	R	10.260	PER(>10KVA@50%)	10.130
MISCELLANEOUS	MS	10.930	1.25	13.663
HVAC	HV	68.400	1	68.400
HEAT	HT	38.999	1	38.999
SINGLE PHASE MOTOR	M1	1.864	1.25	2.330
THREE PHASE MOTOR	M3	10.728	1.25	13.410
KITCHEN	K	115.126	0.65	74.832
SIGNAGE	CH	22.400	1.25	28.000
TOTAL		311.007	TOTAL	290.138
OPTIONAL EQUIPMENT	X	0.000	1	0.000
OPTIONAL TOTAL		311.007	TOTAL	290.138

PANELBOARD SCHEDULE — P

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	P	SWITCH RATED:	SW	KVA PHASE A	9.95
MANUFACTURER / TYPE:	SQ-D / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	9.18
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	7.48
PHASE / WIRE:	3 / 4 W/ IG	HACR:	HA	AMPS PHASE A	82.9
MAIN TYPE / CU BUS AMPS:	MLO / 225 AMP	SHUNT TRIP:	ST	AMPS PHASE B	76.5
AIC RATING:	22000	LOCK-ON:	LO	AMPS PHASE C	62.3
MOUNTING:	SURFACE	NOTES: WITH IG BAR FOR PANEL-POS		KVA CONNECTED	26.6
NEMA RATING:	1			KVA DIVERSIFIED	26.6
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	73.8
				AMPS DIVERSIFIED	73.8

CIR NO.	LOAD DESCRIPTION	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	LOAD DESCRIPTION	CIR NO.
1	DINING RM OUTLETS	R	1.08	20/1	A	20/1	0.54	R	DINING TV OUTLETS	2
3	TV OUTLETS	R	0.54	20/1	B	20/1	0.36	R	OFFICE OUTLETS	4
5	OFFICE OUTLETS	R	0.36	20/1	C	20/1	0.18	R	OFFICE OUTLETS	6
7	OFFICE OUTLETS	R	0.18	20/1	A	20/1	1.08	MS	OFFICE PLUGMOLD	8
9	OFFICE PLUGMOLD	R	1.08	20/1	B	20/1	0.20	MS	DOORBELL	10
11	SPARE			20/1	C	20/1			SPARE	12
13	ROOF OUTLETS	R	1.08	20/1	A	20/1	0.18	R	SATELITE RECEPTACLE	14
15	SAFE POWER	MS	0.14	20/1	B	20/1	0.18	R	CAMERA POWER SUP.	16
17	SMOKE DETECTORS	MS	0.90	20/1/LO	C	20/1			SPARE	18
19	ARM-A-DOOR SYSTEM	MS	0.77	20/1	A	15/3	0.49	M3	EF-1 (1 HP)	20
21	EF-2 (1 HP)	M3	0.49	15/3	B	–	0.49	M3		22
23		M3	0.49	–	C	–	0.49	M3		24
25		M3	0.49	–	A	15/3	0.49	M3	EF-3 (1 HP)	26
27	UH-4	HT	1.00	20/2	B	–	0.49	M3		28
29		HT	1.00	–	C	–	0.49	M3		30
31	POS PANEL		1.26	50/3	A	30/3	2.30	K	ICE MACHINE	32
33			1.90	–	B	–	2.30	K	CONDENSER	34
35			1.26	–	C	–	2.30	K		36
37	SPARE			20/1	A	20/1			SPARE	38
39	SPARE			20/1	B	20/1			SPARE	40
41	SPARE			20/1	C	20/1			SPARE	42

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR) =	DIVERSIFIED KVA
RECEPTACLES	R	9.180	PER(>10KVA@50%)	9.180
MISCELLANEOUS	MS	4.090	1	4.090
HEAT	HT	2.000	1	2.000
SINGLE PHASE MOTOR	M1	0.000	1	0.000
THREE PHASE MOTOR	M3	4.428	1	4.428
KITCHEN	K	6.900	1	6.900
TOTAL		26.598	TOTAL	26.598

PANELBOARD SCHEDULE — POS

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	POS	SWITCH RATED:	SW	KVA PHASE A	1.26
MANUFACTURER / TYPE:	SQ-D / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	1.9
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	1.26
PHASE / WIRE:	3 / 4 W/ IG	HACR:	HA	AMPS PHASE A	10.5
MAIN TYPE / CU BUS AMPS:	MLO / 100 AMP	SHUNT TRIP:	ST	AMPS PHASE B	15.8
AIC RATING:	10000	LOCK-ON:	LO	AMPS PHASE C	10.5
MOUNTING:	FLUSH	NOTES: PROVIDE W/ IG BAR		KVA CONNECTED	4.42
NEMA RATING:	1			KVA DIVERSIFIED	4.42
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	12.3
				AMPS DIVERSIFIED	12.3

CIR NO.	LOAD DESCRIPTION	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	LOAD DESCRIPTION	CIR NO.
1	TERMINAL #1	R	0.18	20/1/IG	A	20/1/IG	0.36	R	TERMINAL #2	2
3	TERMINAL #3	R	0.18	20/1/IG	B	20/1/IG	0.36	R	BAR POS #4/PRINTER	4
5	TERMINAL #5	R	0.18	20/1/IG	C	20/1/IG	0.36	R	TERMINAL #6	6
7	REMOTE PRINTERS	R	0.18	20/1/IG	A	30/3			TVSS SURGE	8
9	UPS-COMPUTER	MS	1.00	20/1/IG	B	–			SUPPRESSOR	10
11	REMOTE PRINTERS	R	0.36	20/1	C	–				12
13	TELEPHONE B.BOARD	R	0.36	20/1/IG	A	20/1			SPARE	14
15	TELEPHONE B.BOARD	R	0.36	20/1/IG	B	20/1			SPARE	16
17	TELEPHONE B.BOARD	R	0.36	20/1/IG	C	20/1			SPARE	18
19	SAFE OUTLET	R	0.18	20/1	A	20/1			SPARE	20
21	SPARE			20/1	B	20/1			SPARE	22
23	SPARE			20/1	C	20/1			SPARE	24

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR) =	DIVERSIFIED KVA
RECEPTACLES	R	3.420	PER(>10KVA@50%)	3.420
MISCELLANEOUS	MS	1.000	1	1.000
TOTAL		4.420	TOTAL	4.420

PANELBOARD SCHEDULE — K

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	K	SWITCH RATED:	SW	KVA PHASE A	23.9
MANUFACTURER / TYPE:	SQ-D / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	25.4
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	19
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	199
MAIN TYPE / CU BUS AMPS:	MLO / 225 AMP	SHUNT TRIP:	ST	AMPS PHASE B	212
AIC RATING:	22000	LOCK-ON:	LO	AMPS PHASE C	158
MOUNTING:	RECESSED	NOTES:		KVA CONNECTED	68.3
NEMA RATING:	1			KVA DIVERSIFIED	48
QUANTITY OF SECTIONS:	2			AMPS CONNECTED	190
				AMPS DIVERSIFIED	133

CIR NO.	LOAD DESCRIPTION	EQ NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQ NO	LOAD DESCRIPTION	CIR NO.
1	REFRIGERATOR	3210	K	1.32	20/1	A	20/1	1.20	K	3305	FOOD PROCESSOR	2
3	BEER PUMP	3313	K	0.83	20/1	B	20/1	1.30	K	3211	REFRIGERATOR	4
5	CREAM FREEZER	3202	K	0.34	20/1	C	20/2	1.80	K	3143	CHESSE MELTER	6
7	FUDGE WARMER	3192	K	1.59	20/1	A	–	1.80	K			8
9	FOOD WARMER	3172	K	0.50	20/1	B	20/2	1.10	K	3183	MICROWAVE OVEN	10
11			K	0.50	20/1	C	–	1.10	K			12
13	MW OVEN	3183	K	1.10	20/2	A	20/2	1.40	K	3177	HEAT LAMPS	14
15			K	1.10	–	B	–	1.40	K			16
17	FOOD WARMER	3172	K	0.50	20/1	C	20/1	0.75	K	3195	FRY WARMER	18
19			K	0.50	20/1	A	20/1	0.75	K	3195	FRY WARMER	20
21	HEAT LAMPS	3176	K	1.40	20/2	B	20/1	0.50	K	3260	REF. PREP TABLE	22
23			K	1.40	–	C	20/2	1.10	K	3183	MICROWAVE OVEN	24
25	MW OVEN	3183	K	1.10	20/2	A	–	1.10	K			26
27			K	1.10	–	B	20/1	1.78	K	3402	COFFEE/TEA	28
29	ICE M. CLEANER		K	0.20	20/1	C	20/1	1.78	K	3402	COFFEE/TEA	30
31	ICE M. CUBER		K	0.13	20/1	A	20/1	0.50	K	3337	CARBONATORS	32
33	REF. PREP TABLE	3260	K	0.50	20/1	B	20/1	1.20	MS		FLY FAN (0.5 HP)	34
35	ROLL WARMER	3174	K	0.45	20/1	C	ST				ST SPACE	36
37	FOOD WARMER	3172	K	0.50	20/1	A	100/3/ST	7.68			PANEL T	38
39			K	0.50	20/1	B	–	9.66				40
41	REFRIGERATOR	3212	K	1.10	20/1	C	–	5.62				42
43	BEVERAGE TOWER	3405	K	0.20	20/1	A	20/1	0.20	K	3405	BEVERAGE TOWER	44
45	FROZEN DRINK	3550	K	0.77	20/1	B	20/1	0.50	K	3512	COCKTAIL STATION	46
47	BAR COOLER	3505	K	0.77	20/1	C	20/1	0.52	K	3504	BAR COOLER	48
49	MUG CHILLER	3531	K	0.79	20/1	A	20/1	0.59	K	3501	UC REFRIGERATOR	50
51	WATER SOFTENER		MS	0.10	20/1	B	20/1	0.60	MS		WATER HEATER	52
53	IRRIGATION CONTROL		MS	0.10	20/1	C	20/1	0.60	MS		WATER HEATER	54
55	BAR MW OVEN		K	1.10	20/1	A	20/1				SPARE	56
57	BUG ZAPPER		MS	0.20	20/1	B	20/1	0.20	MS		BUG ZAPPER	58
59	BAR RECEPT.		R	0.36	20/1	C	20/1				SPARE	60
61	BAR RECEPT.		R	0.36	20/1	A	20/1				SPARE	62
63	TO GO FAX MACHINE		MS	0.20	20/1	B	20/1				SPARE	64
65	SPARE				20/1	C	20/1				SPARE	66
67	SPARE				20/1	A	20/1				SPARE	68
69	SPARE				20/1	B	20/1				SPARE	70
71	SPARE				20/1	C	20/1				SPARE	72
73	SPARE				20/1	A	20/1				SPARE	74
75	SPARE				20/1	B	20/1				SPARE	76
77	SPARE				20/1	C	20/1				SPARE	78
79	SPARE				20/1	A	20/1				SPARE	80
81	SPARE				20/1	B	20/1				SPARE	82
83	SPARE				20/1	C	20/1				SPARE	84

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR) =	DIVERSIFIED KVA
RECEPTACLES	R	0.720	PER(>10KVA@50%)	0.720
MISCELLANEOUS	MS	3.200	1	3.200
THREE PHASE MOTOR	M3	6.300	1	6.300
KITCHEN	K	58.126	0.65	37.782
OPTIONAL EQUIPMENT	X	0.000	1	0.000
TOTAL		68.346	TOTAL	48.002

PANELBOARD SCHEDULE — T

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	T	SWITCH RATED:	SW	KVA PHASE A	7.68
MANUFACTURER / TYPE:	SQ-D / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	9.66
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	5.62
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	64
MAIN TYPE / CU BUS AMPS:	MLO / 100 AMP	SHUNT TRIP:	ST	AMPS PHASE B	80.5
AIC RATING:	22000	LOCK-ON:	LO	AMPS PHASE C	46.8
MOUNTING:	RECESSED	NOTES:		KVA CONNECTED	23
NEMA RATING:	1			KVA DIVERSIFIED	17.1
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	63.7
				AMPS DIVERSIFIED	47.5

CIR NO.	LOAD DESCRIPTION	EQ NO	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	EQ NO	LOAD DESCRIPTION	CIR NO.
1	GAS GRIDDLE	3123	K	0.12	20/1	A	30/2	2.40	K	3147	CHEESE MELTER	2
3	CHEESE MELTER	3147	K	2.40	30/2	B	–	2.40	K			4
5			K	2.40	–	C	20/1				SPARE	6
7	FRYERS	3152	K	0.30	20/1	A	20/1	1.44	K	3201	FREEZER	8
9	OVEN	3112	K	1.08	20/1	B	20/1	1.08	K	3110	OVEN	10
11	PREP TABLE		K	1.00	20/1	C	20/1	0.12	K	3121	GAS GRIDDLE	12
13	SPARE				20/1	A	20/1	0.12	K	3121	GAS GRIDDLE	14
15	SPARE				20/1	B	20/1	0.60	K		FRY TIMERS	16
17	SPARE				20/1	C	20/1				SPARE	18
19	REFRIGERATOR	3280	K	1.20	20/1	A	40/3	2.10	M3		SF-1 (5 HP)	20
21	SPARE				20/1	B	–	2.10	M3			22
23	SPARE				20/1	C	–	2.10	M3			24
25	SPARE				20/1	A	20/1				SPARE	26
27	SPARE				20/1	B	20/1				SPARE	28
29	SPARE				20/1	C	20/1				SPARE	30

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR) =	DIVERSIFIED KVA
RECEPTACLES	R	0.000	PER(>10KVA@50%)	0.000
THREE PHASE MOTOR	M3	6.300	1	6.300
KITCHEN	K	16.660	0.65	10.829
TOTAL		22.960	TOTAL	17.129

PANELBOARD SCHEDULE — H

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	H	SWITCH RATED:	SW	KVA PHASE A	51.8
MANUFACTURER / TYPE:	SQ-D / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	50.3
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	50.3
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	432
MAIN TYPE / CU BUS AMPS:	MLO / 600 AMP	SHUNT TRIP:	ST	AMPS PHASE B	419
AIC RATING:	22000	LOCK-ON:	LO	AMPS PHASE C	419
MOUNTING:	SURFACE	NOTES:		KVA CONNECTED	152
NEMA RATING:	3R			KVA DIVERSIFIED	143
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	423
				AMPS DIVERSIFIED	397

CIR NO.	LOAD DESCRIPTION	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	LOAD DESCRIPTION	CIR NO.
1	RTU-1	HV	6.07	60/3	A	50/3	3.29	HV	RTU-2	2
3	10 TON	HV	6.07	–	B	–	3.29	HV	6 TON	4
5		HV	6.07	–	C	–	3.29	HV		6
7	RTU-3	HV	5.70	60/3	A	60/3	5.00	K	BOOSTER HEATER	8
9	8.5 TON	HV	5.70	–	B	–	5.00	K		10
11		HV	5.70	–	C	–	5.00	K		12
13	RTU-4	HV	7.74	80/3	A	80/3	6.70	K	DISHWASHER	14
15	12.5 TON	HV	7.74	–	B	–	6.70	K		16
17		HV	7.74	–	C	–	6.70	K		18
19	SPARE			30/3	A	30/3	1.50	K	COOLER COIL/COND	20
21				–	B	–	1.50	K		22
23				–	C	–	1.50	K		24
25	FREEZER COIL/COND	K	1.50	30/3	A	90/3	8.33	HT	DUCT HEATER	26
27		K	1.50	–	B	–	8.33	HT	DH-1	28
29		K	1.50	–	C	–	8.33	HT		30
31	TRASH COMPACTOR	K	1.00	20/3	A	30/2	2.50	HT	UH-1	32
33		K	1.00	–	B	–	2.50	HT		34
35		K	1.00	–	C	30/2	2.50	HT	UH-2	36
37	SPACE			X/3	A	–	2.50	HT		38
39				–	B	20/2	1.00	HT	UH-3	40
41				–	C	–	1.00	HT		42

1

* A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY
** PROVIDE BREAKER WHEN REQ'D FOR SITE, OTHERWISE SHALL BE 3 POLE SPACE.

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR) =	DIVERSIFIED KVA
MISCELLANEOUS	MS	0.000	1	0.000
HVAC	HV	68.400	1	68.400
ELECTRIC HEAT	HT	36.999	1	36.999
KITCHEN	K	47.100	0.8	37.680
TOTAL		152.499		143.079

PANELBOARD SCHEDULE — L

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	L	SWITCH RATED:	SW	KVA PHASE A	6.08
MANUFACTURER / TYPE:	SQ-D / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	7.31
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	6.85
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	50.7
MAIN TYPE / CU BUS AMPS:	MLO / 100 AMP	SHUNT TRIP:	ST	AMPS PHASE B	61
AIC RATING:	10000	LOCK-ON:	LO	AMPS PHASE C	57.1
MOUNTING:	SURFACE	NOTES:		KVA CONNECTED	20.2
NEMA RATING:	1			KVA DIVERSIFIED	22.5
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	56.2
				AMPS DIVERSIFIED	62.4

CIR NO.	LOAD DESCRIPTION	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	LOAD DESCRIPTION	CIR NO.
1	DIMMER #1	L	0.32	20/1	A	20/1	0.56	L	DIMMER #2	2
3	DIMMER #3	L	0.50	20/1	B	20/1	1.50	L	DIMMER #4	4
5	DIMMER #5	L	0.60	20/1	C	20/1	1.10	L	DIMMER #6	6
7	DIMMER #7	L	1.30	20/1	A	20/1	0.20	L	DIMMER #8	8
9	DIMMER #9	L	0.20	20/1	B	20/1	0.40	L	DIMMER #10	10
11	DIMMER #11	L	0.33	20/1	C	20/1	0.65	L	DIMMER #12	12
13	DIMMER #13	L	0.20	20/1	A	20/1	0.20	L	DIMMER #14	14
15	TO GO VESTIBULE L.	L	0.20	20/1	B	20/1	0.20	L	BAR ROPE LIGHTS	16
17	WALK-INS LTG	L	0.60	20/1	C	20/1	0.70	L	KITCHEN LTG	18
19	KITCHEN NL	L	1.10	20/1	A	20/1	0.42	L	KITCHEN LTG	20
21	HOOD LTG	L	1.20	20/1	B	20/1			SPARE	22
23	EMERGENCY LIGHTING	EL	0.20	20/1/LO	C	20/1	0.10	MS	CONTACTOR CONTROL	24
25	SALAD BAR FROST TOP	K	1.00	20/1	A	20/1			SPARE	26
27	SALAD BAR FROST TOP	K	1.00	20/1	B	20/1			SPARE	28
29	SALAD BAR FROST TOP	K	1.00	20/1	C	20/1			SPARE	30
31	EF-5	M1	0.40	20/1	A	20/1			SPARE	32
33	SALAD BAR FAN	M1	0.30	20/1	B	20/1	0.86	M1	EF-4 (1/4 HP)	34
35	SALAD BAR FAN	M1	0.30	20/1	C	20/1			SPARE	36
37	HOSTESS PODIUM	R	0.18	20/1	A	20/1	0.20	MS	RESTROOM SW #2	38
39	HOSTESS PODIUM	R	0.18	20/1	B	20/1	0.77	MS	SMOKE FILTER	40
41	SALAD BAR TRACK L.	L	0.50	20/1	C	20/1	0.77	MS	SMOKE FILTER	42

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR) =	DIVERSIFIED KVA
LIGHTING	L	12.980	1.25	16.225
EGRESS LIGHTING	EL	0.200	1.25	0.250
MISCELLANEOUS	MS	1.840	1	1.840
SINGLE PHASE MOTOR	M1	1.864	1	1.864
KITCHEN	K	3.000	0.65	1.950
TOTAL		20.244	TOTAL	22.489

PANELBOARD SCHEDULE — OL

PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	OL	SWITCH RATED:	SW	KVA PHASE A	17.2
MANUFACTURER / TYPE:	SQ-D / NQOD	ISOLATED GROUND:	IG	KVA PHASE B	14.2
VOLTS:	208 Y 120	GROUND FAULT:	GF	KVA PHASE C	11.9
PHASE / WIRE:	3 / 4	HACR:	HA	AMPS PHASE A	143
MAIN TYPE / CU BUS AMPS:	MLO / 225 AMP	SHUNT TRIP:	ST	AMPS PHASE B	119
AIC RATING:	22000	LOCK-ON:	LO	AMPS PHASE C	99.5
MOUNTING:	SURFACE	NOTES:		KVA CONNECTED	43.3
NEMA RATING:	3R			KVA DIVERSIFIED	53.7
QUANTITY OF SECTIONS:	1			AMPS CONNECTED	120
				AMPS DIVERSIFIED	149

CIR NO.	LOAD DESCRIPTION	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD KVA	LOAD TYPE	LOAD DESCRIPTION	CIR NO.
1	LED STRIPE	CH	1.60	20/1	A	20/2	1.60	L	PARKING LOT LTG	2
3	LED STRIPE	CH	1.60	20/1	B	–	1.60	L		4
5	LED STRIPE	CH	1.60	20/1	C	20/2	1.60	L	PARKING LOT LTG	6
7	LED STRIPE	CH	1.60	20/1	A	–	1.60	L		8
9	LED STRIPE	CH	1.60	20/1	B	20/2	1.60	L	PARKING LOT LTG	10
11	LED STRIPE	CH	1.60	20/1	C	–	1.60	L		12
13	LED SIGN	CH	1.60	20/1	A	20/2	1.60	L	PARKING LOT LTG	14
15	LED SIGN	CH	1.60	20/1	B	–	1.60	L		16
17	SPARE			20/1	C	20/2	1.60	L	PARKING LOT LTG	18
19	SPARE			20/1	A	–	1.60	L		20
21	SPARE			20/1	B	20/1	0.64	L	EXTERIOR LIGHTS	22
23	SPARE			20/1	C	20/1	0.54	L	EXTERIOR LIGHTS	24
25	LED SIGN	CH	1.60	20/1	A	20/1	0.65	L	EXTERIOR LIGHTS	26
27	LED SIGN	CH	1.60	20/1	B	20/1	0.39	L	EXTERIOR LIGHTS	28
29	PYLON SIGN	CH	1.60	20/1	C	20/1			SPARE	30
31	PYLON SIGN	CH	1.60	20/1	A	20/1			SPARE	32
33	PYLON SIGN	CH	1.60	20/1	B	20/1			SPARE	34
35	MONUMENT SIGN	CH	1.60	20/1	C	20/1			SPARE	36
37	READER BOARD	MS	1.60	20/1/GF	A	20/1	0.50	L	LANDSCAPE LIGHTING	38
39	SPARE			20/1	B	20/1	0.40	L	WALL PACKS	40
41	SPARE			20/1	C	20/1	0.20	MS	LTG CONTACTORS	42

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	(DEMAND FACTOR) =	DIVERSIFIED KVA
LIGHTING	L	19.120	1.25	23.900
MISCELLANEOUS	MS	1.800	1	1.800
SIGNAGE	CH	22.400	1.25	28.000
TOTAL		43.320	TOTAL	53.700

NOTE: SEE CIVIL SITE PLAN(S) FOR THE SITE LIGHTING AND SITE SIGNAGE LOCATIONS AND POWER REQUIREMENTS/CIRCUITS. CONNECT THE BRANCH CIRCUITS TO THIS PANEL, CIRCUIT NUMBERS INDICATED.

1 PANELBOARD SCHEDULES
E7 NOT TO SCALE

ELECTRICAL LOAD SUMMARY

THE FOLLOWING IS BASED ON 2002 NEC 220-36 AND 2005 NEC 220-88

LOAD DESCRIPTION	KVA
LIGHTING	32.10
EGRESS LIGHTING	0.20
SIGNAGE	22.40
RECEPTACLES	10.26
MISCELLANEOUS	10.93
AIR CONDITIONING (37 TONS)	68.40
MOTORS	12.59
KITCHEN EQUIPMENT	115.13
HEAT	39.00
OPTIONAL EQUIPMENT	0.00
TOTAL CONNECTED	311.01
DEMAND FACTOR(BETWEEN 0-200kVA)	100%
DEMAND FACTOR(BETWEEN 201-325kVA)	50%
DEMAND FACTOR(BETWEEN 326-800kVA)	45%
COMPUTED LOAD	255.50
DIVERSIFIED AMPS	709.73

OPTIONAL CALCULATION METHOD PERMITED LOAD CALCULATIONS FOR SERVICE AND FEEDER CONDUCTORS FOR NEW RESTAURANTS

CONDUIT AND CONDUCTORS SCHEDULE (Based on 2002 and 2005 NEC)

Mark No.	OCP Device (Amp/P)	Load in Amperes	Phase & Neutral Qty	Phase & Neutral Size	Phase & Neutral Type	Equip Grd Qty	Equip Grd Size	No. Sets	Phase, Neutral & Eq Grd EMT	IMC	RIGID	PVC	With IG EMT	IMC	PVC
1	20/1	1 – 16	2	12	THHN	1	12	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	20/2	1 – 16	3	12	THHN	1	12	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	20/3	1 – 16	4	12	THHN	1	12	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	25/1	17 – 20	2	10	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	25/2	17 – 20	3	10	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	25/3	17 – 20	4	10	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	30/1	21 – 24	2	10	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	30/2	21 – 24	3	10	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	30/3	21 – 24	4	10	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	40/1	25 – 32	2	8	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	40/2	25 – 32	3	8	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	40/3	25 – 32	4	8	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	1
13	50/1	33 – 40	2	8	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
14	50/2	33 – 40	3	8	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	3/4
15	50/3	33 – 40	4	8	THHN	1	10	One	3/4	3/4	3/4	3/4	3/4	3/4	1
16	60/1	41 – 48	2	6	THW	1	10	One	3/4	3/4	3/4	1	1	1	1
17	60/2	41 – 48	3	6	THW	1	10	One	1	1	1	1	1 1/4	1	1 1/4
18	60/3	41 – 48	4	6	THW	1	10	One	1 1/4	1	1	1 1/4	1 1/4	1 1/4	1 1/4
19	70/1	49 – 56	2	4	THW	1	8	One	1	1	1	1	1 1/4	1	1 1/4
20	70/2	49 – 56	3	4	THW	1	8	One	1 1/4	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
21	70/3	49 – 56	4	4	THW	1	8	One	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
22	80/2	57 – 64	3	3	THW	1	8	One	1 1/4	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
23	80/3	57 – 64	4	3	THW	1	8	One	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
24	90/2	65 – 72	3	3	THW	1	8	One	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
25	90/3	65 – 72	4	3	THW	1	8	One	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/2
26	100/2	73 – 80	3	3	THW	1	8	One	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
27	100/3	73 – 80	4	3	THW	1	8	One	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/2
28	110/2	81 – 88	3	2	THW	1	6	One	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/2
29	110/3	81 – 88	4	2	THW	1	6	One	1 1/2	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
30	125/2	89 – 100	3	1	THW	1	6	One	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2
31	125/3	89 – 100	4	1	THW	1	6	One	2	2	2	2	2	2	2
32	150/2	101 – 120	3	1/0	THW	1	6	One	2	2	2	2	2	2	2
33	150/3	101 – 120	4	1/0	THW	1	6	One	2	2	2	2	2	2	2
34	175/2	121 – 140	3	2/0	THW	1	6	One	2	2	2	2	2	2	2
35	175/3	121 – 140	4	2/0	THW	1	6	One	2	2	2	2	2 1/2	2 1/2	2 1/2
36	200/2	141 – 160	3	3/0	THW	1	6	One	2	2	2	2	2 1/2	2 1/2	2 1/2
37	200/3	141 – 160	4	3/0	THW	1	6	One	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
38	225/2	161 – 180	3	4/0	THW	1	4	One	2 1/2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
39	225/3	161 – 180	4	4/0	THW	1	4	One	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3	3
40	250/3	181 – 200	4	250	THW	1	4	One	2 1/2	3	3	3	3	3	3
41	300/3	201 – 240	4	350	THW	1	4	One	3	3	3	3	3	3 1/2	3 1/2
42	350/3	241 – 280	4	500	THW	1	3	One	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	4	4
43	400/3	281 – 320	4	3/0	THW	2	3	Two	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
44	600/3	321 – 480	4	350	THW	2	1	Two	3	3	3	3	3	3 1/2	3 1/2
45	800/3	481 – 640	4	500	THW	2	1/0	Two	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	4	4
46	1000/3	641 – 800	4	400	THW	3	2/0	Three	3	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
47	1200/3	801 – 960	4	350	THW	4	3/0	Four	3	3	3	3	3	3 1/2	3 1/2
48	1600/3	961 – 1280	4	400	THW	5	4/0	Five	3	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2

Notes:

Conductors are rated at 600 volt or below and are copper.

NEC Table 310-16 is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 75 deg C rated termination connectors per 110-14c, verify with actual equipment used.

NEC Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Ground.

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.

2 CONDUIT & CONDUCTOR SCHEDULE
E7 NOT TO SCALE

MARK	REVISION	DATE
1	DW/BOOSTER HEATER	9/29/05

Ruby Tuesday

ENGINEER
Kurzynske & Associates
825 Third Avenue, South
Nashville, Tennessee 37210
(615) 255-5203

SEAL
STATE OF LOUISIANA
MARK T. KURZYNSKE
License No. 28957
PROFESSIONAL ENGINEER
9/29/05

PANEL SCHEDULES

RUBY TUESDAY # 4734
I-10E SERVICE ROAD at TYLER DRIVE (I-10 at Gause Blvd)
SLIDELL LOUISIANA

K&A PROJECT NUMBER
RT0522
ISSUE FOR REVIEW
JULY 22, 2005
ISSUE FOR CONSTRUCTION
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CHECKED BY
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SCALE
AS NOTED
SHEET NUMBER
E-7