PANEL A1

NOTES: 1. SQUARE D POWERLINK G3 TYPE NF PANEL BOARD WITH SQUARE D POWERLINK G3 CONTROLLER AND METASYS N2 COMMUNICATIONS PROTOCOL.
2. ALL CIRCUIT BREAKERS IN PANEL TO BE TYPE 'ECB-3'.

VOLTAGE/PHASE: 208Y/120 VAC, 3-PH., 4-WIRE — AMPERAGE/MAINS: 225A MLO
MOUNTING: SURFACE — AIC: 22K SERIES RATED WITH PANEL MDP

ZONE	CIR NO.	ITEM	TYPE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	WIRE	AMPS	POLE	POLE	AMPS	WIRE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	TYPE	ITEM	CIR NO.	ZONE
2	1	LIGHTS – SALES FLOOR	L	1440			12	20	1	1	20	10	1274			L	LIGHTS – PHARMACY/WAITING	2	2
2	3	LIGHTS – SALES FLOOR	L		1320		12	20	1	1	20	10		840		L	LIGHTS – PHARMACY	4	2
2	5	LIGHTS – SALES FLOOR	L			1680	12	20	1	1	20	10			542	L	LIGHTS – RECEIVING, MEZZANINE	6	2
2	7	LIGHTS – SALES FLOOR	L	1440			12	20	1	1	20	12	570			L	LIGHTS– FRONT CANOPY	8	5
2	9	LIGHTS – SALES FLOOR	L		1142		12	20	1	1	20	12		124		L	LIGHTS– DRIVE THRU	10	5
5	11	EXTERIOR SIGNAGE	L			510	12	20	1	1	20	12			1475	L	EXTERIOR SIGNAGE	12	5
5	13	EXTERIOR SIGNAGE, DRIVE THRU	L	900			12	20	1	1	20	12	1475			L	EXTERIOR SIGNAGE	14	5
NL	15	NIGHT LIGHTS	L		480		12	20	1	1	20	12		1475		L	EXTERIOR SIGNAGE	16	5
EM	17	EMERGENCY LIGHTS	L			1262	12	20	1	1	20	12	1262			L	EXTERIOR SIGNAGE	18	5
EM	19	EMERGENCY LIGHT, BREAKER	L	–			12	20	1	1	20	12			1475	L	EMERGENCY LIGHTS	20	EM
3	21	EXTERIOR WALLPACKS	L		420		12	20	1	1	20	12		–		L	EMERGENCY LIGHT, BREAKER	22	EM
4	23	SITE LIGHTING	L			2790	8	40	2	1	20	12			960	L	EMERGENCY LIGHTS	24	EM
4	25			2790						1	20	12	–			L	EMERGENCY LIGHT, BREAKER	26	EM
4	27	SITE LIGHTING	L		2790		8	40	2	1	20	12		220		L	LIGHTS – PICTURE CENTER	28	2
4	29					2790				1	20	10			790	L	PYLON SIGN	30	4
3	31	SITE LIGHTING DUSK TO DAWN	L	465			10	20	2	1	20	10	790			L	PYLON SIGN	32	4
3	33		L		465					1	20	12		1475		L	EXTERIOR SIGNAGE	34	5
	35	EF-1 & EF-2	M			500	12	20	1	1	20	12			1475	L	EXTERIOR SIGNAGE	36	5
4	37	EMC (ELECTRONIC MESSAGE CENTER)	L	1000			10	20	1	1	20	12	1200			L	LIGHTS – COSMETIC	38	2
4	39	WALL LANTERN LIGHTING	L		1032		12	20	1	1	20	12		1200		L	LIGHTS – COSMETIC	40	2
2	41	RECEPTS–EXTERIOR	R			360	12	20	1	1	20	12			500		PANEL A2 CONTACTOR POWER	42	
		SUBTOTAL B		8035	7649	9892													

	A	B	C
SUBTOTAL A	6571	5694	7937
SUBTOTAL B	8035	7649	9892
TOTAL	14606	13343	17829

TOTAL CONNECTED LOAD = 45778 WATTS
TOTAL CONNECTED AMPS = 127 AMPS

EM – EMERGENCY LIGHTING CIRCUIT BREAKER
ECB–3G EL POSITIONS 17, 20 AND 24 ARE THE SWITCH REMOTE CONTROL LEG. POSITIONS 19, 22 AND 26 ARE THE NON SWITCHED CONSTANT POWER FROM COMMON SOURCE LEG.

PANEL B1 (STORE WITH BEER ONLY)

NOTES: 1. SQUARE D TYPE NQOD PANEL BOARD WITH EQUIPMENT GROUND BAR.

VOLTAGE/PHASE: 208Y/120 VAC, 3-PH., 4-WIRE — AMPERAGE/MAINS: 400A MLO
MOUNTING: SURFACE — AIC: 22K SERIES RATED WITH PANEL MDP

CIR NO.	ITEM	TYPE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	WIRE	AMPS	POLE	POLE	AMPS	WIRE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	TYPE	ITEM	CIR NO.
1	5–DOOR FREEZER FAN	M	300			12	20	1	1	20	12	–				SPARE	2
3	5–DOOR FREEZER WARMER	M		1030		10	20	1	1	20	12		500		A	AUTOMATIC DOORS	4
5	3+3 DOOR COOLERS, FAN + WARMER	M			1150	12	20	1	1	20	12			300	M	UH–1	6
7	4+5 DOOR COOLERS, FAN + WARMER	M	1700			10	20	1	2	20	12	1550			M	AC–1	8
9	SPARE			–			20	1					1550		M		10
11	SPARE				–		20	1	1	20	12			1500	A	WH–1	12
13	CU–1	M	1150			12	20	2	1	20	12	1500			A	WH–2	14
15		M		1150					1	40	8		3500		A	WH–3	16
17	SPACE				–				1	20				–		SPARE	18
19	DOOR ALARM	A	100			12	20	1				3950			M		20
21	SPARE			–			20	1	3	45	8		3950		M	CONDENSING UNIT	22
23	IRRIGATION UNIT	A			1000	12	20	1						3950	M		24
25			–									7600			M		26
27	SPACE			–		–	–	3	3	70	4		7600		M	RTU–2	28
29					–									7600	M		30
31			–									7450			M		32
33	SPACE			–		–	–	3	3	80	4		7450		M	RTU–3	34
35					–									7450	M		36
37		M	7100									5300			M		38
39	RTU–1	M		7100		4	70	3	3	50	6		5300		M	RTU–4	40
41		M			7100									5300	M		42
	SUBTOTAL B		10350	9280	9250												

	A	B	C
SUBTOTAL A	27350	29850	26100
SUBTOTAL B	10350	9280	9250
TOTAL	37700	39130	35350

TOTAL CONNECTED LOAD = 112180 WATTS
TOTAL CONNECTED AMPS = 312 AMPS

PANEL A2

NOTES: 1. SQUARE D TYPE NQOD PANEL BOARD WITH EQUIPMENT GROUND BAR.
2. PROVIDE WITH 3P–SN EOMH PANEL CONTACTOR – 120V CONTROL (2–WIRE MAINTAINED CONTACTOR)

RATING: 208Y/120 VAC, 3-PH., 4-WIRE — AMPERAGE/ MAINS: 125A MLO
MOUNTING: SURFACE — AIC: 22K SERIES RATED WITH PANEL MDP

ZONE	CIR NO.	ITEM	TYPE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	WIRE	AMPS	POLE	POLE	AMPS	WIRE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	TYPE	ITEM	CIR NO.	ZONE
1	1	LIGHTING – SALES FLOOR PERIMETER	L	124			12	20	1	1	20	12	1200			L	LIGHTING – SALES FLOOR TRACK	2	1
1	3	LIGHTING – SALES FLOOR PERIMETER	L		666		12	20	1	1	20	12		1200		L	LIGHTING – SALES FLOOR TRACK	4	1
1	5	LIGHTING – SALES FLOOR PERIMETER	L			604	12	20	1	1	20	12			1800	L	LIGHTING – SALES FLOOR TRACK	6	1
1	7	LIGHTING – SALES FLOOR	L	1320			12	20	1	1	20	12	1800			L	LIGHTING – SALES FLOOR TRACK	8	1
1	9	LIGHTING – SALES FLOOR	L		1440		12	20	1	1	20	12		1200		L	LIGHTING – SALES FLOOR TRACK	10	1
1	11	LIGHTING – SALES FLOOR	L			1320	12	20	1	1	20	12			600	L	LIGHTING – SALES FLOOR TRACK	12	1
1	13	LIGHTING – SALES FLOOR	L	1440			12	20	1	1	20	12	1000			L	LIGHTING – DISPLAY	14	1
1	15	LIGHTING – SALES FLOOR	L		1080		12	20	1	1	20	12		400		L	LIGHTING – DISPLAY	16	1
1	17	RECEPT/PLUGMOLD SEASONAL	L			1200	12	20	1	1	20	12			600	L	LIGHTING – DISPLAY	18	1
1	19	RECEPT/PLUGMOLD SEASONAL	L	1200			12	20	1	1	20	12	1200			L	RECEPT/PLUGMOLD SEASONAL	20	1
	21	SPARE						20	1	1	20	12		1200		L	LIGHTING – SALES FLOOR TRACK	22	1
1	23	FREEZER LIGHTS	L			650	12	20	1						–		SPACE	24	
1	25	COOLER LIGHTS	L	1050			12	20	1			–					SPACE	26	
	27	SPACE			–								–				SPACE	28	
	29	SPACE				–								–			SPACE	30	
		SUBTOTAL B		5134	3186	3774													

	A	B	C
SUBTOTAL A	5200	4000	3000
SUBTOTAL B	5134	3186	3774
TOTAL	10334	7186	6774

TOTAL CONNECTED LOAD = 24294 WATTS
TOTAL CONNECTED AMPS = 67 AMPS

PANEL B2

NOTES: 1. SQUARE D TYPE NQOD PANEL BOARD WITH EQUIPMENT GROUND BAR.

VOLTAGE/PHASE: 208Y/120 VAC, 3-PH., 4-WIRE — AMPERAGE/MAINS: 125A MLO
MOUNTING: SURFACE — AIC: 22K SERIES RATED WITH PANEL MDP

CIR NO.	ITEM	TYPE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	WIRE	AMPS	POLE	POLE	AMPS	WIRE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	TYPE	ITEM	CIR NO.
1	RECEPTS – CASH REGISTER CABINET	R	720			12	20	1	1	20	12	900			R	GONDOLA OUTLETS	2
3	RECEPTS – CASH REGISTER CABINET	R		720		12	20	1	1	20	12		720		R	GONDOLA OUTLETS	4
5	RECEPTS – CASH REGISTER CABINET	R			360	12	20	1	1	20	12			1300	M	BEVERAGE COOLER	6
7	RECEPTS – PHOTO SHOP	A	540			12	20	1	1	20	12	720			R	RECEPTS	8
9	RECEPTS – WAITING AREA	R		900		12	20	1	1	20	12		720		R	RECEPTS – PHARMACY	10
11	RECEPTS – WAITING AREA TV	R			1000	12	20	1	1	20	12			720	R	RECEPTS – PHARMACY	12
13	WATER COOLER	A	500			12	20	1	1	20	12	540			R	RECEPTS – PHARMACY	14
15	RECEPTS – CONVENIENCE RECEIVING	R		400		12	20	1	1	20	12		1000		A	RECEPTS – PHARMACY REFRIGERATOR	16
17	SECURITY GATE	A			1000	12	20	1	1	20	12			1000	A	RECEPTS – PHARMACY REFRIGERATOR	18
19	RECEPTS – PHARMACY COUNTER	R	720			12	20	1	1	20	12	1000			A	RECEPTS – PHARMACY REFRIGERATOR	20
21	RECEPTS – PHARMACY COUNTER	R		720		12	20	1	1	20	12		180		R	RECEPTS – WORK ROOM	22
23	RECEPTS – LOUNGE TV	R			500	12	20	1	1	25	12			2000	M	HAND DRYER	24
25	RECEPTS – LOUNGE MICROWAVE	A	1000			12	20	1	1	25	12	2000			M	HAND DRYER	26
27	RECEPTS – LOUNGE	R		540		12	20	1	1	20	12		540		R	RECEPTS – MEZZANINE	28
29	RECEPTS – LOUNGE REFRIGERATOR	A			1000	12	20	1	1	20	12			500	M	PEDESTAL SECURITY GATE	30
31	RECEPTS – PHARMACY – DRIVE THRU	R	360			12	20	1	1	20	12	540			R	RECEPTS – OFFICE	32
33	RECEPTS – DRIVE THRU TELLER DRAW	R		720		12	20	1	1	20	12		540		R	RECEPTS – OFFICE	34
35	RECEPTS – DRIVE THRU BLOWER	R			700	12	20	1	1	20	12			180	R	RECEPTS – OFFICE	36
37	RECEPTS – DRIVE THRU BLOWER	M	700			12	20	1	1	20	12	720			R	RECEPTS – PHARMACY	38
39	RECEPTS – ROOF TOP	R		720		12	20	1	1	20			–			SPARE	40
41	SPARE				–		20	1	1	20				–		SPARE	42
	SUBTOTAL B		4540	4720	4560												

	A	B	C
SUBTOTAL A	6420	3700	5700
SUBTOTAL B	4540	4720	4560
TOTAL	10960	8420	10260

TOTAL CONNECTED LOAD = 29640 WATTS
TOTAL CONNECTED AMPS = 82 AMPS

PANEL C

NOTES: 1. SQUARE D TYPE NQOD PANEL BOARD WITH EQUIPMENT GROUND BAR AND ISOLATED GROUND BAR.
2. PROVIDE #6 INSULATED COPPER ISOLATED GROUND TO SERVICE ENTRANCE GROUND POINT IN PANEL MDP.

VOLTAGE/PHASE: 208Y/120 VAC, 3-PH., 4-WIRE — AMPERAGE/MAINS: 125A MLO
MOUNTING: SURFACE — AIC: 22K SERIES RATED WITH PANEL MDP

	CIR NO.	ITEM	TYPE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	WIRE	AMPS	POLE	POLE	AMPS	WIRE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	TYPE	ITEM	CIR NO.	
		RECEPTS – REGISTERS																	
IG	1	RECEPTS – REGISTERS	D	1200			12	20	1	2	30	10	2500			A	DIGITAL PRINTER/PROCESSOR	2	IG
IG	3	RECEPTS – REGISTERS	D		1200		12	20	1					2500		A		4	IG
IG	5	RECEPTS – REGISTERS	D			1200	12	20	1	1	15	12			1000	A	DIGITAL FILM PROCESSOR	6	IG
IG	7	PRINT MAKER	A	480			12	20	1	1	20	12	1080			D	RECEPTS – PHARMACY	8	IG
IG	9	DIGITAL ORDER SYSTEM	A		240		12	20	1	1	20	12		540		D	RECEPTS – PHARMACY	10	IG
IG	11	RECEPTS – SECURITY/TEL BKBD	D			540	12	20	1	1	20	12			1080	D	RECEPTS – PHARMACY	12	IG
IG	13	RECEPTS – SECURITY/TEL BKBD	D	540			12	20	1	1	20	12	1080			D	RECEPTS – PHARMACY	14	IG
IG	15	RECEPTS – SECURITY/TEL BKBD	D		540		12	20	1	1	20	12		500		D	RECEPTS – PHARMACY – RAPID SCRIPT	16	IG
IG	17	RECEPTS – PHARMACY	D			540	12	20	1	1	20	12			500	D	IG POWER POLE – PHARMACY	18	IG
IG	19	RECEPTS – DRIVE THRU	D	540			12	20	1	1	20	12	720			D	RECEPTS – PHARMACY REGISTERS	20	IG
IG	21	RECEPTS – OFFICE	D		360		12	20	1	1	20	12		500		D	RECEPTS – WORK ROOM COMPUTER	22	IG
IG	23	RECEPTS – OFFICE	D			360	12	20	1	1	20	12			1600	D	RECEPTS – SECURITY	24	IG
IG	25	RECEPTS – OFFICE	D	360			12	20	1	1	20	10	1600			D	RECEPTS – SECURITY	26	IG
IG	27	RECEPTS – PHARMACY	D		180		12	20	1	1	20			–			SPARE	28	IG
IG	29	FACP	D			500	12	20	1	1	20	12			500	D	EMS PANEL	30	IG
		SUBTOTAL B		3120	2520	2600													

	A	B	C
SUBTOTAL A	6980	4040	4680
SUBTOTAL B	3120	2520	2600
TOTAL	10100	6560	7280

TOTAL CONNECTED LOAD = 23940 WATTS
TOTAL CONNECTED AMPS = 67 AMPS

IG – ISOLATED GROUND

SERVICE DEMAND LOAD SUMMARY

LOAD DESCRIPTION	SERVICE DESCRIPTION 208Y/120V, 3–PHASE, 4–WIRE CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
LIGHTING LOADS (L)	68.0	100%	68.0
GENERAL USE RECEPTACLES THRU 10 KVA (R)	10.00	100%	10.00
GENERAL USE RECEPTACLES OVER 10 KVA (R)	4.8	50%	2.4
DEDICATED RECEPTACLES (D)	16.6	50%	8.3
MISCELLANEOUS OR APPLIANCES (A)	21.9	50%	11
HVAC EQUIPMENT AND MECHANICAL (M)	116	80%	92.8
CALCULATED LOAD			192.5
AMPS			535

PANEL MDP (USE WITH DETAIL A9 ONLY)

NOTES: 1. SQUARE D CLASS 2710 TYPE SB348S SERVICE SECTION SWITCHBOARD – SERVICE ENTRANCE RATED WITH HOT SEQUENCE METERING COMPARTMENT, SERVICE DISCONNECT AND INTEGRAL DISTRIBUTION PANEL.
2. THIS PANEL IS PART OF THE SERVICE SECTION SWITCHBOARD AND IS LIMITED TO THE POSITIONS AND MAXIMUM AMPERAGES SHOWN.

VOLTAGE/PHASE: 208Y/120 VAC, 3-PH., 4-WIRE — AMPERAGE/MAINS: 800A MCB w/700A TRIP
MOUNTING: SURFACE — AIC: 30K

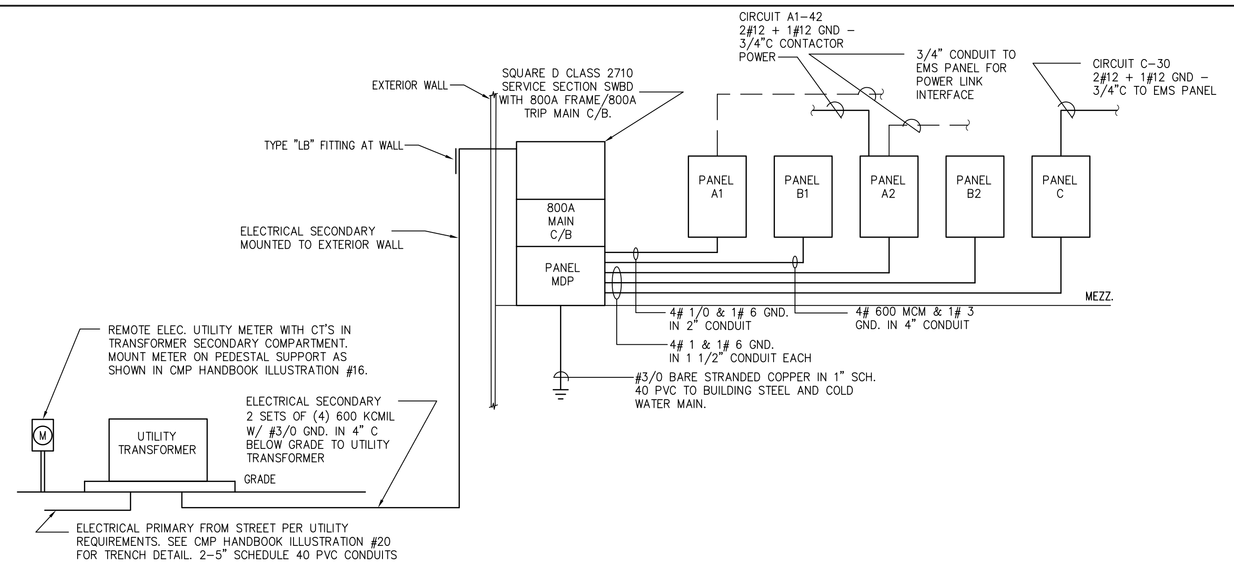
CIR NO.	ITEM	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	WIRE	AMPS	POLE	POLE	AMPS	WIRE	WATTS/PHASE A	WATTS/PHASE B	WATTS/PHASE C	ITEM	CIR NO.
1	PANEL B2	10960									38900				
			7700		–	125	3	3	400	–		42353		PANEL B1	2
				10760									37573		
3	PANEL A1	13941													
			9906		–	150	3		–	–					
				14099											
5	PANEL A2	10334													
			7186		–	125	3		–	–					
				6774											
7	PANEL C	10100													
			6380		–	125	3		–	–					
				7280											
	SUBTOTAL B	45335	31172	38913											

	A	B	C
SUBTOTAL A	38900	42353	37573
SUBTOTAL B	45335	31172	38913
TOTAL	84235	73525	76486

TOTAL CONNECTED LOAD = 234246 WATTS
TOTAL CONNECTED AMPS = 651 AMPS

NOTE: THIS PANEL IS PART OF THE SERVICE SECTION SWITCHBOARD AND IS LIMITED TO THE POSITIONS AND MAXIMUM AMPERAGES SHOWN.

D8 PANEL SCHEDULES



A9 POWER RISER DIAGRAM - INTERIOR HOT SEQUENCE METERING

BRUCE RONAYNE HAMILTON ARCHITECTS
ARCHITECTURE
LAND PLANNING
INTERIOR DESIGN
3D VISUALIZATION
937 TURNPIKE ROAD
P.O. BOX 104
NEW IPSWICH
NEW HAMPSHIRE 03071

RITE AID STORE #4122
WASHINGTON & ALLEN AVENUE
PORTLAND, MAINE

RITE AID

REVISIONS
1 10–27–06 ISSUED FOR BUILDING PERMIT/GC BIDDING

Drawn RCK
Checked
Approved

Project No. 0525
Date: 10–27–06

Title
ELECTRICAL DIAGRAMS AND SCHEDULES

Sheet No.
E–302