

PANELBOARD A CALCULATION																
DATE: 8/19/2003																
DESIGNED BY: TWG																
PROJ: JOHNNY CARBON'S PHOTO 3.0 MINI																
PHI NO: 01025-00																
VOLT: 120V / 208 PH: 3 WIRE: 4 AIC RATING: 42,000																
MOUNTING: FLUSH																
MAIN AMPS: 225 AMP., M.L.O.																
REMARKS	POLES & AMPS	CONNECTED LOAD VOLT-AMPS						A	B	C	REMARKS					
		VOLT-AMPS														
		A	B	C	A	B	C									
LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR					
E42 (PDS)	1P20	300						2	4				1P20	LIQUID/STEEL LAMP		
LIGHTING - KITCHEN	1P20		868					3	4				1P20	TELE. BOARD		
E42 (PDS)	1P20							4	4				1P20	FV/FAN		
E42 (PDS)	1P20	300						5	4				1P20	REC. PUMP		
E42 (PDS)	1P20		360					6	10				1P20	FACP		
E42 (PDS)	1P20							7	10				1P20	RECEPTACLE ROOF		
E42 (PDS)	1P20	350						8	14		1200		1P20	RECEPTACLE ROOF		
E42 (PDS)	1P20		360					9	16			1500	1P20	BLDG. SIGNAGE		
E42 (PDS)	1P20							10	17			1500	1P20	BLDG. SIGNAGE		
STEREO SYSTEM	1P20	500						10	1000				1P20	EXT. BLDG. LIGHTING		
RECEPTACLES	1P20		800					21	22		800		1P20	EXT. FLOOD LIGHTING		
RECEPTACLES	1P20							22	24		500		1P20	WATER SOUTHER		
RECEPTACLES	1P20	1200						23	26				1P20	SPARE		
RECEPTACLES	1P20		1400					24	26		400		1P20	PAGING SYSTEM		
RECEPTACLES	1P20							25	30		500		1P20	FEEDST LIGHTS (PATIO)		
SECURITY SYSTEM	1P20	600						31	32		300		1P20	SECURITY GATE		
CPU	1P20		800					32	34				1P20	SPARE		
EXT. SECURITY/ROOF LIGHTS	1P20		1683					33	36			500	1P20	E3 (PRINTER)		
EXT. BLDG. LIGHTS	1P20	400						34	38		400		1P20	E3 (PRINTER)		
LIGHT - EXT	1P20		1696					35	40		500		1P20	E3 (PRINTER)		
LIGHT - EXT	1P20							36	42		500		1P20	E4 (PRINTER)		
TOTALS		400	3261	2261	3200	2941	3050				1860	3200	400	3600	500	4800
TOTAL LTG. LOAD	8656	X 1.25														
TOTAL KITCHEN LOAD	0	X 1.00														
TOTAL RECEPTACLE LOAD	7500	X 0.50 = 10kva														
TOTAL EQUIPMENT LOAD	14000	X 1.00														
TOTAL MOTOR LOAD	0	X 1.00 X 25% of largest														
TOTAL CONN. LOAD =	26556	DEMAND LOAD =	31670													
DIVERSIFIED DESIGN LOAD =	31876	/ 208	X 1.73 =													
REMARKS: PROVIDE PANEL WITH ISOLATED GROUND BAR.																

PANELBOARD M CALCULATION																
DATE: 8/19/2003																
DESIGNED BY: TWG																
PROJ: JOHNNY CARBON'S PHOTO 3.0 MINI																
PHI NO: 01025-75																
VOLT: 120V / 208 PH: 3 WIRE: 4 AIC RATING: 42,000																
MOUNTING: FLUSH																
MAIN AMPS: 400 AMP., M.L.O.																
REMARKS	POLES & AMPS	CONNECTED LOAD VOLT-AMPS						A	B	C	REMARKS					
		VOLT-AMPS														
		A	B	C	A	B	C									
LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR					
RTU-1	3P 100		9960					1	2		900					
+								2	4		800					
RTU-2	3P 35		4200					3	8		900					
+								4	10		900					
RTU-3	3P 40		3720					5	13		900					
+								6	16		900					
EF#4	1P20	600						7	16		2004					
EF#5	1P20		696					8	18		2004					
ROOF RECEPTS	1P20		720					9	22		2004					
SPARE	1P20							10	25							
WALL HEATER *	1P20		1500					11	26							
WALL HEATER *	1P20		1500					12	30							
SPT POWER	1P20		500					13	34		1000					
PVLDN SIGN	1P20		1344					14	36							
PVLDN SIGN	1P20		1016					15	38							
PVLDN SIGN	1P20		1600					16	40							
PVLDN SIGN	1P20		1680					17	42							
TOTALS		1056	20070	1880	19076	3024	20100				4704	0	8304	0	4704	
TOTAL LTG. LOAD	5760	X 1.25														
TOTAL KITCHEN LOAD	0	X 1.00														
TOTAL RECEPTACLE LOAD	0	X 0.50 = 10kva														
TOTAL EQUIPMENT LOAD	7464	X 1.00														
TOTAL MOTOR LOAD	0	X 0.25														
TOTAL CONN. LOAD =	8704	DEMAND LOAD =	8376													
DIVERSIFIED DESIGN LOAD =	9528	/ 208	X 1.73 =													
REMARKS: 83019 79419 4000 LESS NON CONCENTRIC LOAD *																

MAIN PANELBOARD "MP"					
TYPE	NCFI	MAN:	M.L.O.	NEMA 1	SERVICE ENTRANCE RATED
VOLTS	120/208V 3W 4W	BUS:	100AMP	AIC:	65,000
AREA SERVED		POLES	(C.B. TRIP AMPS)	FEEDER	AMPS
1	PANEL "NB"	3	200	480V 1780	125
2	PANEL "K&A2"	3	400	480V 1780	200
3	PANEL "M"	3	400	480V 1780	267
4	ROOFER HEATER	3	125	480V 1780	36
5	PANEL "C"	3	200	480V 1780	80
6	DIMMER PANEL "D"	3	100	480V 1780	28
TOTAL: 833					

NOTE: ALL PANELBOARDS AND CIRCUIT BREAKERS INDICATED ON THIS SHEET ARE FACTORY FURNISHED AND INSTALLED IN THE INTEGRATED SWITCHGEAR.

PANELBOARD KA1/KA2 CALCULATION																
DATE: 8/19/2003																
DESIGNED BY: TWG																
PROJ: JOHNNY CARBON'S PHOTO 3.0 MINI																
PHI NO: 01025-00																
VOLT: 120V / 208 PH: 3 WIRE: 4 AIC RATING: 42,000																
MOUNTING: FLUSH																
MAIN AMPS: 400 AMP., M.L.O.																
REMARKS	POLES & AMPS	CONNECTED LOAD VOLT-AMPS						A	B	C	REMARKS					
		VOLT-AMPS														
		A	B	C	A	B	C									
LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR	LTG	PWR					
E1 (COFFEEMAKER)	1P20	1500						1	2		5000			3P70	E11 (DISHWASHER)	
DOD	1P20		1800					3	4		1800					
DOD	1P20							4	6							
SPARE	1P20	0						5	6		1200			1P20	E11A (DET. EQUIP.)	
E18 (MICROWAVE)	1P20		1600					6	10		1404			2P20	E13 (ICE MACHINE)	
E19 (UNDER CTR. FZ)	1P20							7	12		1404			1404		
SPARE	1P20							8	14		1404			2P20	E13 (ICE MACHINE)	
E40 (REF. FRIGERATOR)	1P20		960					9	16		1404					
E41 (GRAND. PREP.)	1P20							10	17							
E43 (HOLDING CAB.)	1P20		1788					11	18					6000	3P70	E15 (TLTD. SKILLET)
E45 (SODA. PREP.)	1P20		1200					12	20		6000					
E45 (SODA. PREP.)	1P20							13	22		6000			6000		
E42 (GRAND. PREP.)	1P20							14	24							
E42 (GRAND. PREP.)	1P20		1320					15	26		600			1P20	E31 (PASTE COOKER)	
E72 (GROUP WARMER)	1P20		840					16	27							
SPARE	1P20							17	29					800	1P20	E31 (PASTE COOKER)
E88 (MDE)	1P20		1500					18	31							
E73 (BREAD WARMER)	1P20		1920					19	34					1800	2P20	E38 (HOT FOOD)
E73 (BREAD WARMER)	1P20							20	36					1600		
E74 (HEATED DISH DISP.)	1P20		1788					21	38							
E74 (BREAD WARMER)	1P20		1788					22	40					840	1P20	E51 (CONV. OVEN)
E75 (HEATED DISH DISPOSAL)	1P20							23	42		554			42		
E75 (HEATED DISH DISPOSAL)	1P20		600					24	44		948			44		
E101 (BAR/BARISTA MACHINE)	2P25							25	46							
E103 (BLENDER)	1P20		1020					26	48		1788			2880	3P30	E55 (CONV. OVEN)
E107 (MUG FROSTER)	1P20		864					27	50					2880		
E113 (M.C. REF.)	1P20		1080					28	52							
E114 (EXPRESSO)	1P20		2400					29	54							
E120	1P20							30	56		960			60		
E6 (SODA TOWER)	1P20		1800					31	58		1404			1P20	E13 (ICE MACHINE)	
E6 (SODA TOWER)	1P20							32	60		1404			1404		
E5 (DEA. BEVERAGE)	1P20							33	62		900			100	1P2	