

SQUARE D 208/120V, 3Ø, 4W PANEL A 200A M.C.B. 200A MAIN																
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	
1	1	50	3	6	1"	RTU-1	3927/2880	2	2	20	2	12	1/2"	CCU-1 COOLER CONDENSER		
3	3	-	-	-	-	-	3927/2880	4	4	-	-	-	-	-		
5	5	-	-	-	-	-	3927/2880	6	6	20	1	12	1/2"	SANDWICH/SALAD PREP **		
7	7	50	3	6	1"	RTU-2	3927	8	8	-	-	-	-	SHUNT		
9	9	-	-	-	-	-	3927/4500	10	10	40	2	8	3/4"	FCU-1 FREEZER CONDENSER *		
11	11	-	-	-	-	-	3927/4500	12	12	-	-	-	-	-		
13	13	20	1	12	1/2"	RECEPTACLES	1620/1260	14	14	20	1	12	1/2"	RECEPTACLE - CENTERLINE		
15	15	20	1	12	1/2"	SANDWICH/SALAD PREP **	828/1260	16	16	20	1	12	1/2"	RECEPTACLE - CENTERLINE		
17	17	-	-	-	-	-	1260	18	18	20	1	12	1/2"	RECEPTACLE - CENTERLINE		
19	19	20	1	12	1/2"	ROOF RECEPTACLES	900/1656	20	20	20	1	12	1/2"	STEAM TABLE **		
21	21	20	1	12	1/2"	MANAGER DESK RECEPTACLES	900/1818	22	22	20	1	12	1/2"	FRYERS/PREP UNIT ***		
23	23	20	1	12	1/2"	MANAGER DESK RECEPTACLES	720	24	24	-	-	-	-	SHUNT TRIP		
25	25	20	1	12	1/2"	GAS WATER HEATERS	170	26	26	-	-	-	-	-		
27	27	20	1	12	1/2"	RECEPTACLES	1440/264	28	28	20	1	12	1/2"	REORC. PUMP		
29	29	20	1	12	1/2"	COOLER/FREEZER LIGHTS	758/2000	30	30	30	1	10	1/2"	EMH-1		
31	31	20	2	12	1/2"	COU-1 EVAP. FAN	1600/180	32	32	20	1	12	1/2"	FLY LAMPS		
33	33	-	-	-	-	-	1600/180	34	34	20	1	12	1/2"	FLY LAMPS		
35	35	20	2	12	1/2"	FCU-1 EVAP. FAN	1600	36	36	20	1	12	1/2"	FLY LAMPS		
37	37	-	-	-	-	-	1600	38	38	-	-	-	-	-		
39	39	-	-	-	-	-	1600	40	40	-	-	-	-	-		
41	41	-	-	-	-	-	1600	42	42	-	-	-	-	-		
CONNECTED VA. PER PHASE							19,720	23,524	19,698							
TOTAL AMPERES PER PHASE							165	197	165							

SQUARE D 208/120V, 3Ø, 4W PANEL B 200A M.C.B. 200A MAIN																
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	
1	1	20	3	12	1/2"	MUA-1	721/1092	2	2	20	1	12	1/2"	BUN WARMER **		
3	3	-	-	-	-	-	721/1680	4	4	20	1	12	1/2"	TEA BREWER		
5	5	-	-	-	-	-	721/810	6	6	20	1	12	1/2"	SODA DISPENSER		
7	7	20	3	12	1/2"	EHF-1	564/540	8	8	20	1	12	1/2"	KITCHEN RECEPTACLES		
9	9	-	-	-	-	-	564/1560	10	10	20	2	12	1/2"	ICE MACHINE EVAP. FAN		
11	11	-	-	-	-	-	564/1560	12	12	-	-	-	-	-		
13	13	20	1	12	1/2"	MONITOR	500/1680	14	14	20	3	12	1/2"	MILKSHAKE MACHINE RIGHT		
15	15	-	-	-	-	SHUNT	540/1680	16	16	-	-	-	-	-		
17	17	20	1	12	1/2"	KITCHEN RECEPTACLES	1680	18	18	-	-	-	-	-		
19	19	-	-	-	-	-	540/1680	20	20	20	3	12	1/2"	MILKSHAKE MACHINE LEFT		
21	21	20	1	12	1/2"	SODA DISPENSER	1620	22	22	-	-	-	-	-		
23	23	20	1	12	1/2"	SHAKE MONITOR	810/1920	24	24	-	-	-	-	-		
25	25	20	1	12	1/2"	KITCHEN RECEPTACLES	500/1920	26	26	20	1	12	1/2"	SANDWICH/SALAD PREP		
27	27	20	1	12	1/2"	RECEPTACLES	360/828	28	28	20	1	12	1/2"	REFRIGERATOR		
29	29	20	1	12	1/2"	HOOD LIGHTS/CONTROLS	1300	30	30	-	-	-	-	SHUNT TRIP		
31	31	20	1	12	1/2"	POS	720/1600	32	32	20	2	12	1/2"	COU-2 EVAP. FAN		
33	33	20	1	12	1/2"	POS	720/1600	34	34	-	-	-	-	-		
35	35	20	1	12	1/2"	POS	720/2880	36	36	20	2	12	1/2"	CCU-2 COOLER CONDENSER		
37	37	20	1	12	1/2"	POS	720/2880	38	38	-	-	-	-	-		
39	39	20	1	12	1/2"	POS	720/1260	40	40	20	1	12	1/2"	RECEPTACLE - CENTERLINE		
41	41	20	1	12	1/2"	POS	720/1500	42	42	20	1	12	1/2"	HEAT TAPE		
CONNECTED VA. PER PHASE							14,127	14,605	15,417							
TOTAL AMPERES PER PHASE							118	122	129							

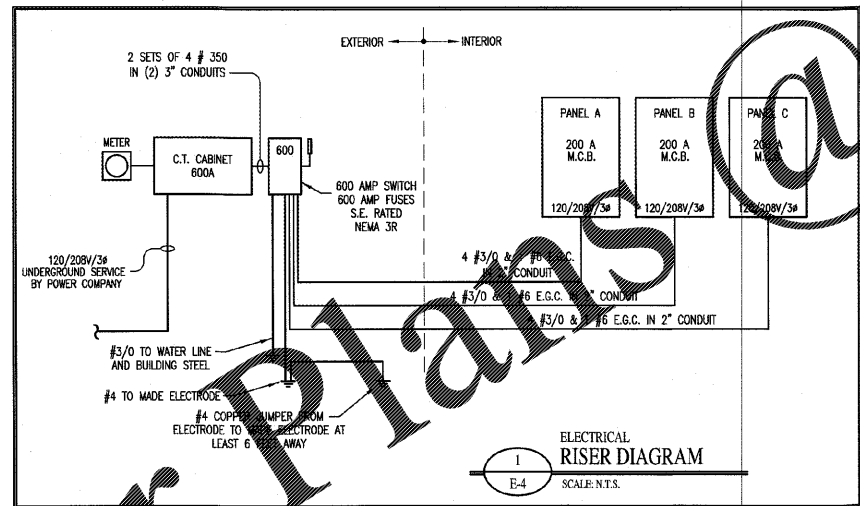
SQUARE D 208/120V, 3Ø, 4W PANEL C 200A M.C.B. 200A MAIN																
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	
1	1	20	1	12	1/2"	LIGHTING (KITCHEN)	603/153	2	2	20	1	12	1/2"	LIGHTING (RESTROOM)		
3	3	20	1	12	1/2"	LIGHTING (STORAGE)	469/500	4	4	20	1	12	1/2"	LIGHTING COOLANT CONTRLS		
5	5	20	1	12	1/2"	BUILDING SIGN	1000/1260	6	6	20	1	12	1/2"	RECEPTACLE - CENTERLINE		
7	7	20	1	12	1/2"	LIGHTING (EXTERIOR)	1320/1051	8	8	20	1	12	1/2"	BUILDING NEON		
9	9	20	1	12	1/2"	LIGHTING (EXTERIOR)	1310/1061	10	10	-	-	-	-	NEON		
11	11	20	1	12	1/2"	MENU BOARD	1200/4500	12	12	40	2	8	3/4"	FCU-2 FREEZER CONDENSER		
13	13	20	1	12	1/2"	PRE-ORDER BOARD	800/4500	14	-	-	-	-	-	-		
15	15	20	1	12	1/2"	ROAD SIGN	1200	16	16	-	-	-	-	CO2		
17	17	20	1	12	1/2"	BUILDING SIGN	1000/1070	18	20	1	12	1/2"	CO2			
19	19	20	1	12	1/2"	BUILDING SIGN	1200	20	20	1	12	1/2"	FLY LAMPS			
21	21	20	1	12	1/2"	ROAD SIGN	200	22	20	1	12	1/2"	FLY LAMPS			
23	23	20	1	12	1/2"	ROAD SIGN	1200	24	24	-	-	-	-	-		
25	25	15	3	12	1/2"	ICE MACHINE CONDENSER RTU	107/85	26	26	20	1	12	1/2"	EMERGENCY & EXIT LIGHTS		
27	27	-	-	-	-	-	707/1061	28	28	20	1	12	1/2"	BUILDING NEON		
29	29	-	-	-	-	-	707/1061	30	30	20	1	12	1/2"	BUILDING NEON		
31	31	-	-	-	-	-	500	32	32	1	12	1/2"	WALK UP MENU BOARD			
33	33	-	-	-	-	-	1193	34	34	20	1	12	1/2"	GREASE HEATER		
35	35	-	-	-	-	-	1800	36	36	-	-	-	-	-		
37	37	20	1	12	1/2"	MENU BOARD (INTERIOR)	1200	38	38	-	-	-	-	-		
39	39	20	1	12	1/2"	FCU-2 EVAP. FAN	1800	40	40	-	-	-	-	-		
41	41	-	-	-	-	-	1800	42	42	-	-	-	-	-		
CONNECTED VA. PER PHASE							12,109	11,261	14,328							
TOTAL AMPERES PER PHASE							101	95	120							

- DENOTES ON/OFF BREAKER LOCK
- * DUAL REFRIGERATION EQUIPMENT FOR ALTERNATING OPERATING CYCLES (OPERATION IS NON-SIMULTANEOUS AND IS NOT ACCOUNTED FOR IN THE TOTAL PANEL LOAD)
- ** KITCHEN EQUIPMENT DERATED PER NEC 220-56
- *** SHUNT TRIP REQUIRED

- * DUAL REFRIGERATION EQUIPMENT FOR ALTERNATING OPERATING CYCLES (OPERATION IS NON-SIMULTANEOUS AND IS NOT ACCOUNTED FOR IN THE TOTAL PANEL LOAD)
- ** KITCHEN EQUIPMENT DERATED PER NEC 220-56

- DENOTES ON/OFF BREAKER LOCK

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ITEM	QUANTITY	DESCRIPTION	VOLTAGE	AMPS
5	1	WALK IN FREEZER	208V/3Ø	25
7	1	(2) DRAWER SANDWICH/SALAD PREP UNIT	115V/1Ø	7.2
10	3	35 LB GAS FRYERS	115V/1Ø	4.3
12	1	WALK IN COOLER	208V/3Ø	20
13	2	CARBONATED BEVERAGE MACHINE W/ICE BIN	120V/1Ø	4.5
15	1	ICE MAKER W/BIN	208V/1Ø	15
17	2	(2) DOOR SANDWICH/SALAD PREP UNIT	115V/1Ø	7.2
18	2	MILK SHAKE MACHINE	208V/3Ø	16/14
21	2	TEA DISPENSER	120V/1Ø	-
23	1	BUN WARMER	120V/1Ø	9.1
24	1	STEAM TABLE	120V/1Ø	13.8
25	1	(2) DOOR SANDWICH/SALAD PREP UNIT	115V/1Ø	7.2
28	1	(4) DRAWER UNDER COUNTER REFRIGERATOR	115V/1Ø	7.2

LOAD CALCULATION SUMMARY			
ITEM	TOTAL VA	(X) D.F.	VA
LIGHTS	3,781	125 (%)	4,726
EXTERIOR WALL LIGHTS	2,630	125 (%)	3,288
RECEPTACLES *** (FIRST 10,000 @ 100%)	10,000	100 (%)	10,000
(REMAINDER @ 50%)	5,081	50 (%)	2,541
HVAC *	27,417	100 (%)	27,417
REFRIGERATION EQUIPMENT *	46,854	100 (%)	46,854
WATER HEATER	2,170	125 (%)	2,713
MENU BOARDS/SIGNAGE/NEON LIGHTS	14,544	125 (%)	18,180
KITCHEN EQUIPMENT **	6,222	70 (%)	4,355
KITCHEN EQUIPMENT (NON-DERATED)	27,264	100 (%)	27,264
TOTAL	145,963	-	147,338
TOTAL AMPS = VA / (208 x √3) = 409			

- * NOTE: NAME PLATE RATING INCLUDES 125% DIVERSITY FACTOR.
- ** NOTE: KITCHEN EQUIPMENT IS CALCULATED PER NEC TABLE 220.56.
- *** NOTE: RECEPTACLES ARE CALCULATED PER NEC TABLE 220.44

Order Plans

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