

- (1) KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).
- (2) TERMINATE GROUND ON ISOLATED GROUND BUS.
- (3) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, CONTROLLED BY TIMECLOCK. REFER TO DETAILS, SHEET 11/E-400.
- (4) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.
- (5) REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
- (6) GFCI BREAKER
- (7) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16

PNL A

MOUNTING: FLUSH WALL MOUNT  
LOCATION: ELEC. CABINET  
TYPE: BOLT ON W/GROUND BUS  
NEMA RATING: 1

PANELBOARD

(NEW)

INTERIOR MOUNTED PANELBOARD SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARD OR HINGED/FLUSH COVERS NOT ALLOWED

208Y/120V, 3PH, 4W  
400A M.L.O.  
SERIES RATED 65/10K A.I.C.  
GROUND BUS  
ISOLATED GROUND

	DESCRIPTION	WIRE	BRKR	PL	KVA			PL	BRKR	WIRE	DESCRIPTION			
					A	B	C							
1	WIC DISPLAY LTS/MENUBRD/LED	12	20	1	0.33	1.00		1	20	12	FAX '87', MGR '84C', COMP '49A	2		
3	HOOD CONT'L PNL 'M4'	12	20	1		0.50	0.60		1	20	MUSIC VCR, MINITOR	4		
5	SERVICE POS 94, PTR '86A'(2,6)	12	20	1			1.10	0.50	1	20	COMPUTER RECEPT '83A' (2)	6		
7	D.THRU POS '94'/PTRS '86A'(2,6)	12	20	1	1.10	0.13			1	20	10U ICE MACHINE (6)	8		
9	95-4-S'3', FLY LT,C02 (1,6)	12	20	1		0.82	1.41		2	20	CHF-25 'M10' AIR CURTAIN	10		
11	RICE WARMER '54A' (1,4)	12	20	1			0.11	1.41				12		
13	REF. PREP TABLE '340' (1)	12	20	1	1.80	1.18			1	20	REAR DOOR - FLY FAN 'M8A'	14		
15	REF. PREP TABLE '340' (1)	12	20	1		1.08	0.10		1	20	FIRE SUPPRES SHUTDOWN	16		
17	UNDER CTR FRZR '30L' (1,4)	12	20	1			1.08	1.18	1	20	SIDE DOOR - FLY FAN 'M8C'	18		
19	BEVERAGE DISP '4AB'(1)	12	20	1	1.12	1.30			1	20	INDUCT WELF 3F, 3G (1,4,6)	20		
21	SERVING COUNTER	12	20	1		0.10	1.30		1	20	INDUCT WELF 3F, 3G (1,4,6)	22		
23	ICE TEA BREWER '90'	12	20	1			1.78	1.30	1	20	INDUCT WELF 3F, 3G (1,4,6)	24		
25	FOOD PROCESSOR '53'	12	20	1	1.20	1.30			1	20	INDUCT WELF 3F, 3G (1,4,6)	26		
27	ELEC. DOOR EQUIPMENT	12	20	1		0.72	1.30		1	20	INDUCT WELF 3F, 3G (1,4,6)	28		
29	WALK-IN COOLER COIL '31M'(1)	12	20	1			0.24	1.30	1	20	INDUCT WELF 3F, 3G (1,4,6)	30		
31	RICE HOLD CAB '24H' (1,4,6)	10	20	1	1.78	1.30			1	20	INDUCT WELF 3F, 3G (1,4,6)	32		
33	FUTURE CONTROLS (1,6)	12	20	1		0.20	0.84		1	20	INDUCT WELF 3F, 3G (1,4,6)	34		
35	TIME	12	20	1		0.20		0.01	1.10	1	20	RAD TOP HEATER '152B1' (1)	36	
37	4B' BOOSTER OUTLET (6)	12	20	1	0.86	1.10			1	20	RAD TOP HEATER '152B2' (1)	38		
39	HEAT WRAP '32-ST' (4)	12	20	1		0.50			1	20	SPARE	40		
41	FLY LIGHT (6)	12	20	1				0.18	1.52	2	20	THAWING CABINET	42	
43	DUCT DETECTORS	12	20	1	0.20	1.52				1	20	SPARE	44	
45	LTG-FOOD PRP/EF3 (4)	10	20	1	1.13				1	20	SPARE	46		
47	LTG DINING AREA	12	20	1			0.25	1.40	2	15	12	MICROWAVE - 55A (1)	48	
49	SHOW WINDOW RECEPTS	12	20	1	0.90	1.40			1	20	12	FUTURE EQUIPMENT	50	
51	GENERAL RECEPTS	12	20	1		0.72	0.18		1	20	12	SPARE	52	
53	EXTERIOR RECEPTS	12	20	1			0.36		1	20	12	SPARE	54	
55	GREASE REMOVAL	12	20	1	0.18	1.23			2	20	12	ICE MACHINE COND. '10J-S' (1)	56	
57	10U ICE MACHINE (6)	12	20	1		0.13	1.23					58		58
59	GAS WATER HEATER - P3, (6)	12	20	1			0.96	3.33	2	40	8	WALKIN FRZR COND. '32-S1'(1,6)	60	
61	ICE TEA BREWER '90' (1,4)	10	20	1	1.78	3.33						62		62
63	LTG - RESTRIMS	12	20	1		0.07	2.81		2	35	10	WALK IN COOL COND '31-S' (1)	64	
65	RG RECEPTS	12	20	1			0.36	2.81		3	60	RTU-3 (LENNOX)	66	
67	DI WINDOW MGR AIR CURTAIN	12	20	2	0.50	6.24			3	60	6	RTU-2 (LENNOX)	68	
69	DRIVE THRU HOT WELF CABINET	6	50	2		2.70	6.24		3	60	6	RTU-2 (LENNOX)	70	
71							2.70	6.24				72		72
73	ELECTRIC GRIDDLE - 25E' (1,6)	6	50	2	3.79	6.24			3	60	6	RTU-2 (LENNOX)	74	
75						3.79	6.24					76		76
77	SPARE	12	20	1				6.24				78		78
79	SPACE				3.60				3	45	6	RTU-1 (LENNOX)	80	
81	SPACE					3.60						82		82
83	SPACE						3.60					84		84
PANELBOARD TOTALS CALCULATED					TOTAL			TOTAL						
					46.39			38.30			41.04			
					387			320			343			
					TOTAL LOAD			125.73 KVA			349 AMPS			
PER NEC ARTICLE 220					FEEDER LOAD			109.59 KVA			305 AMPS			

MOUNTING: FLESH WALL MOUNT LOCATION: ELEC. CABINET TYPE: BOLT ON W/GROUND BUS NEMA RATING: 1				(NEW)										SERIES RATED 65/10K A.I.C. GROUND BUS			
				INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED													
	DESCRIPTION	WIRE	BRKR	PL	KVA						PL	BRKR	WIRE	DESCRIPTION			
					A		B		C								
1	BUILDING SIGN/LOGO (3)	12	20	1	1.00	1.23						2	20	10	ICE MACHINE COND. '10J-SI' (4)	2	
3	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1		0.47	1.23						4			4	
5	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1					0.30	0.90		1	20	12	21B MJ345 FRYER (1,6)	4	
7	TICKET PRINTER	12	20	1	0.22	5.64						3	60	6	POT WASHER	8	
9	BEV. DISPENSER 4AB (1,4)	10	20	1		1.12	5.64									12	
11	SECURITY/POS MONITORS	12	20	1					0.10	5.64						10	
13	HYPERACTIVE TIMER SYS.	12	20	1	0.10	1.50						1	20	10	MENUBOARD (3,4)	12	
15	SIGN DISPLAY	12	20	1		0.26	1.00					1	20	10	THRU ORDER SCREEN SPACE	16	
17	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1					0.45							18	
19	COKE CARBONATOR	12	20	1	0.20	2.57						3	30	10	CU-2	20	
21	MONUMENT SIGN (3,4)	10	20	1		0.50	2.57									22	
23	BUILDING LTG/EM (3)	12	20	1					0.10	2.57						24	
25	MENUBOARD (3,4)	10	20	1	1.50	0.71						3	15	12	EF-1	26	
27	DR THRU ORDER SCREEN (4)	10	20	1		1.00	0.71									28	
29	RTU CONVENIENCE OUTLETS	12	20	1					0.54	0.71						30	
31	CANOPY LIGHTING (3)	12	20	1	0.13	0.71						3	15	12	EF-2	32	
33	CANOPY LIGHTING (3)	12	20	1		0.13	0.71									34	
35	EXTERIOR MOTION SECURITY LED	12	20	1						0.71						36	
37	CU-1	10	30	3	2.57	2.40						3	30	10	MAU-1	38	
41						2.57	2.40									40	
PANELBOARD TOTALS CALCULATED					TOTAL		20.46		20.30		16.97		KVA				
PER NEC ARTICLE 220							171		170		142		AMPS				
TOTAL LOAD							57.72		KVA		161		AMPS				
FEEDER LOAD							58.84		KVA		164		AMPS				

	NOT TO SCALE	E-601
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NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE SERVICE TO BUILDING ROUTED: TBD AVAILABLE FAULT CURRENT: TBD METERING LOCATION: EXTERIOR BUILDING		UTILITY COMPANY: XXXXXXXXXXXXXXXXXXXX NAME OF CONTACT: XXXXXXXXXXXXXXXXXXXX PHONE: (XXX)-XX-XXXX EMAIL: XXXXXXXXXXXX@XXXXX.com		
ITEMS	CONTRACTOR		UTILITY COMPANY	
	FURNISHED BY	INSTALLED BY	FURNISHED BY	INSTALLED BY
PRIMARY CONDUCTORS			X	X
PRIMARY TERMINATIONS			X	X
PRIMARY CONDUIT(S)	X	X		
PRIMARY TRENCH/BACKFILL	X	X		
TRANSFORMER –(CONTRACTOR TO PROVIDE PAD PER/UTILITY REQ'S.)			X	X
SECONDARY CONDUCTORS (FROM XFMR TO UTILITY METER)	X	X		
SECONDARY TERMINATIONS @ TRANSFORMER (GC PROVIDE LUGS)			X	X
SECONDARY TERMINATIONS @ SERVICE ENTRANCE	X	X		
SECONDARY CONDUIT	X	X		
SECONDARY TRENCH/BACKFILL	X	X		
METERING CT'S – TO BE DETERMINED BY UTILITY			X	X
METER HOUSING – PROVIDED BY UTILITY TO CONTRACTOR AT NO CHARGE	X	X		
<b>CONTRACTOR NOTE:</b>				
1. CONTRACTOR TO FIELD VERIFY AND COORDINATE THEIR RESPONSIBILITIES FOR ELECTRICAL SERVICE ENTRANCE WITH ELECTRICAL SERVICE PROVIDER; AND PROVIDE BID WITH ALL ASSOCIATED COSTS WITH NO ADDITIONAL COST TO OWNER.				
<b>DESIGNER NOTE:</b>				
1. ENGINEER/DESIGNER TO MODIFY ELECTRICAL COORDINATION FORM AS PER THEIR CONVERSATION WITH UTILITY PROVIDER.				

SINGLE LINE DIAGRAM		2
	NOT TO SCALE	E-601



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## REVISIONS:

[illegible]

## ISSUE DATE:

	ISSUE FOR PERMIT	10-20-
	ISSUE FOR BID	01-30-

DRAWN BY: AE/SS

PANDA PROJECT #: D23503  
PANDA STORE #: -  
ARCH PROJECT #: 261-443



E-601

PANELS, SINGLE LINE, LOAD CALC'S

PANDA HOME 2600 R4

ISSUE FOR BID 01-30-23

ISSUE FOR BID 01-30-23

1. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
3. A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN THE SES MAINS FUSES AND THE PANEL BRANCH CIRCUIT BREAKERS, NO SUBSTITUTIONS - UNLESS A FULLY RATED SYSTEM IS PROVIDED.
4. MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM, AT PANEL 'A' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 21,572 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", AT PANEL 'B' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 20,985 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"
6. EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. FUSES, CIRCUIT BREAKERS) HIGHLIGHTING EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
7. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

SERIES RATING NOTES		4
	NOT TO SCALE	E-601

