

1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
3. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.

SINGLE LINE DIAGRAM GENERAL NOTES 3

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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 INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. 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.
6. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

SERIES RATING NOTES 4

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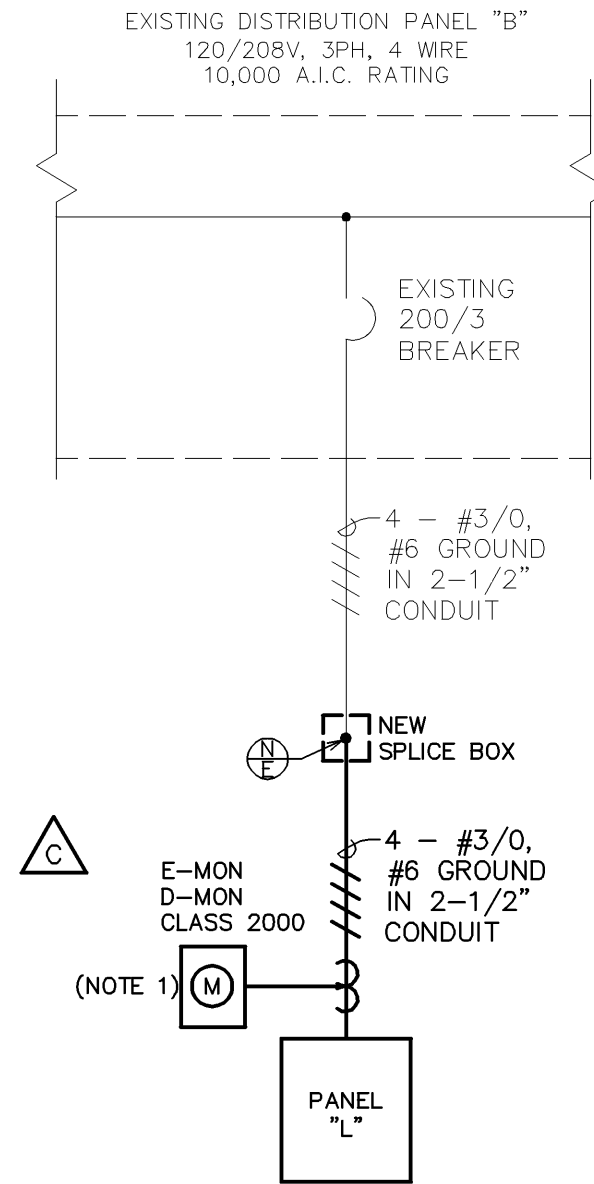
N.E.C. LOAD ANALYSIS FOR PANEL "L" (INCLUDING SUBFEEDS)								
LOAD DESCRIPTION	DEMAND FACTOR	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		TOTAL (VA)
		CONNECT.	DEMAND	CONNECT.	DEMAND	CONNECT.	DEMAND	
LIGHTING:	125%	892	1115	500	625	125	157	1897
RECEPTACLE:	100%	180	180	0	0	0	0	180
OTHER CONTINUOUS:	125%	0	0	0	0	1200	1500	1200
OTHER NONCONTINUOUS:	100%	2857	2857	1217	1217	0	0	4074
WATER HEATING:	100%	0	0	3000	3000	3000	3000	6000
KITCHEN:	65%	12262	7971	13118	8527	13147	8546	38527
COOLING ONLY:	100%	6960	6960	5380	5380	5920	5920	18260
MOTOR:	100%	4332	4332	4332	4332	4332	4332	12996
ADD 25% OF LARGEST MOTOR:	100%	87	87	87	87	87	87	261
TOTAL:		27570	23502	27634	23168	27811	23541	83015
EQUIVALENT AMPS:		230	196	231	194	232	197	231
PHASE BALANCE:		-1%	1%	-1%	-2%	1%	1%	

LEGEND

— EXISTING

— NEW WORK

⊕ NEW TO EXISTING CONNECTION



KEYED NOTES

1. ELECTRICAL SUB-METER SHALL BE TIED INTO THE ALC CONTROL SYSTEM.

ONE LINE DIAGRAM 2

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PANEL "L" SCHEDULE														
FED FROM: EXISTING MDP 'B', 120/208V, 200A				MOUNTING: FLUSH MOUNTED										
VOLTAGE: 120/208V, 3 PHASE, 4 WIRE				ENCLOSURE: NEMA 1										
BUS MATERIAL: ALUMINUM OR COPPER				FAULT CURRENT: 7767 AMPS										
BUS LOAD: 197 AMPS				AIC RATING: 10 KAIC										
BUS RATING: 225 AMPS				OPTIONS*: BONDED AND ISOLATED GROUND BARS										
MAIN: 200/3 MAIN BREAKER														
NOTES	CKT.	LOAD DESCRIPTION	LOAD (VA)			BREAKER	BREAKER	LOAD (VA)			LOAD DESCRIPTION	CKT.	NOTES	
			A	B	C			A	B	C				
	C-A	1	LIGHTING	892			20/1	15/2	1040			WALK-IN COOLER COND	2	
		3	WALK-IN COOLER LTG		500		20/1	----		1040		----	4	
	C-B	5	SIGNAGE			1200	20/1	15/2			1040	WALK-IN FREEZER COND	6	
	GFCI	7	COMPUTER RECEPT.	600			20/1	----	1040			----	8	
	GFCI	9	MUSIC/DVD SYSTEM		600		20/1	20/1		500		WALK-IN COOLER COIL	10	
	GFCI	11	MANAGER'S DESK			1000	20/1	20/2			1040	WALK-IN FREEZER COIL	12	
	GFPE	13	HEAT WRAP TAPE	500			20/1	----	1040			----	14	
	ST	15	ELECTRIC GRILL		3002		50/3	40/2		3000		EWB	16	
		17	-----			3002	-----	-----			3000	-----	18	
		19	-----	3002			-----	20/2	1217			ICE MACHINE CONDENSER	20	
		21	SHUNT TRIP COIL							1217		-----	22	
	ST	23	FRYER			120	20/1	20/1			125	LIGHTING INVERTER	24	
		25	SHUNT TRIP COIL						500			HOOD CONTROL	26	
	GFCI	27	INDUCTION WELL			1800	20/1	20/1				SPARE	28	
		29	RADIANT HEATER			1100	15/1	20/1			336	FOOD PROCESSOR	30	
		31	RADIANT HEATER	840			15/1	20/1	540			LCD MONITOR	32	
	GFCI	33	PREP TABLE		1440		20/1	20/1		1800		INDUCTION WELL	34	GFCI
	GFCI	35	RICE WARMER			105	20/1	15/1			1100	RADIANT HEATER	36	GFCI
	GFCI	37	INDUCTION WELL	1800			20/1	20/1	1200			INDUCTION WELL	38	GFCI
	GFCI	39	INDUCTION WELL		1800		20/1	20/1				SPARE	40	
	GFCI	41	SOUP WARMER			804	20/1	20/1			1800	INDUCTION WELL	42	GFCI
	GFCI	43	POS	600			20/1	20/1	1800			INDUCTION WELL	44	GFCI
	GFCI	45	RICE HOLDING		1776		20/1	15/2		900		MICROWAVE	46	
	GFCI	47	PREP TABLE			1080	20/1	----			900	----	48	
	GFCI	49	WORKTOP FREEZER	792			20/1	45/3	2532			MA-1	50	
		51	SPARE				20/1	----			2532	----	52	
	GFCI	53	CASHIER BEV COUNT			1800	20/1	----			2532	----	54	
		55	MA-1 COND	3840			60/3	30/3	1800			EF-1	56	
		57	-----		3840		-----	-----		1800		-----	58	
		59	-----			3840	-----	-----			1800	-----	60	
		61	SPARE				20/1	20/1	180			ROOF RECEPT	62	
		63	SPARE				20/1	20/1				SPARE	64	
		65	SPARE				20/1	20/1				SPARE	66	
	HPL	67	ICE MACHINE	1728			20/1	20/1				SPARE	68	
		69	SPARE				20/1	20/1				SPARE	70	
		71	SPARE				20/1	20/1				SPARE	72	
		73	SPACE ONLY									SPACE ONLY	74	
		75	SPACE ONLY									SPACE ONLY	76	
		77	SPACE ONLY									SPACE ONLY	78	
		79	SPACE ONLY									SPACE ONLY	80	
		81	SPACE ONLY									SPACE ONLY	82	
		83	SPACE ONLY									SPACE ONLY	84	

NOTES:

GFCI

GFPE

ST

HPL

SEE SPECIFICATIONS FOR OTHER OPTIONS REQUIRED BUT NOT NECESSARILY NOTED HERE

CIRCUIT BREAKER SHALL BE GROUND-FAULT CIRCUIT INTERRUPTING (GFCI) TYPE

CIRCUIT BREAKER SHALL BE GROUND-FAULT PROTECTION OF EQUIPMENT (GFPE) TYPE

CIRCUIT BREAKER SHALL BE EQUIPPED WITH SHUNT TRIP COIL

CIRCUIT BREAKER SHALL HAVE PERMANENTLY-INSTALLED HANDLE PADLOCK ATTACHMENT TO LOCK BREAKER IN OPEN POSITION

C-# CIRCUIT SHALL BE ROUTED THROUGH CONTACTOR, # = CONTACTOR DESIGNATION

PANEL SCHEDULES 1

NOT TO SCALE E-601



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REVISIONS:

ADDENDUM A	05-01-17
ADDENDUM B	05-18-17
ADDENDUM C	05-25-17
ADDENDUM D	06-06-17
ADDENDUM E	06-09-17

ISSUE DATE:

CONSTRUCTION SET 06-16-17

DRAWN BY: FAL

PANDA PROJECT #: U1-17-D4972

ARCH PROJECT #: -



Date: 06/14/17

CDA # PEP003760



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E-601

PANELS, SINGLE LINE, LOAD CALC'S

TRUE WARM & WELCOME 2200