

PANELBOARD										A	SCHEDULE																
VOLTAGE: 208Y/120V BUS SIZE:										600 AMP		MAINS 600A TOTAL LOAD		MLO 0.0 KVA		MOUNTING		RECESSED		REMARKS:		PROVIDED AND INSTALLED BY LANDLORD PROVIDED WITH ISOLATED GROUND BAR					
No.	SERVES	WIRE SIZE	LOAD (KVA)				BRKR TRIP	P	PH A B C	BRKR TRIP	P	KITCH	HTG	A/C	MTR	RCPT	LTG	WIRE SIZE	SERVES	No.							
1	SHUNT								1					6.2						2							
3					3.2							3	60					6	RTU -2	4							
5	RTU-1	8			3.2				40	3				6.2						6							
7					3.2									6.2						8							
9	MICROWAVE	12							15	2				6.2				6	RTU-3	10							
11									1.4					6.2						12							
13	SHUNT								1			1	20	0.3					12	FOOD PROCESSOR '53'	14						
15	21G MJ345 FRYER (1)	12							20	1		1	20						12	REAR DOOR 'M8A'	16						
17	SPARE								20	1		1	20							SPARE	18						
19	ICE MACHINE COND. '10J' (1)	12			1.2				20	2		2	20			1.2			10	ICE MACHINE COND. '10J-S1' (4)	20						
21					1.2											1.2					22						
23	WALK-IN FREEZER COND. '32-S1' (1)	10			2.1				25	2		1	20				0.5		12	COMPUTER RECEIPT '83A'	24						
25					2.1							1	20				1.1		12	SERVICE POS '94', PTR '86A' (2)	26						
27	WALK-IN COOLER COND. '31-S' (1)	12			1.0				20	2		1	20							SPARE	28						
29					1.0							1	20							SPARE	30						
31	WALK-IN COOLER COIL. '31M' (1)	10			0.5				20	1		1	20							SPARE	32						
33	(SHUNT)								1			1	20							SPARE	34						
35	RICE HOLDING CABINET '24H' (1.4)	10						1.8	20	1		1	20							SPARE	36						
37	SPARE								20	1											38						
39	HEAT WRAP '32-57'	12					0.5		20	1				33.3	0.0	0.0	8.3	6.7	5.1	PANEL 'B'	40						
41	SPARE								20	1		3	200								42						
																			39.2	0.5	46.8	19.8	8.3	5.1	CONNECTED KVA		119.7
																									NEC KVA		127.7
																									AMPS		354.5

Service Entrance Load summary					
Lighting	5.10	x	125%	=	6.38 KVA
Receptacles	8.30	+	0.00 x 50%	=	8.30 KVA
Motor	19.80	+	5.4 x 125%	=	26.55 KVA
Heating	0.50			=	0.50 KVA
AC	46.8			=	46.80 KVA
Kitchen	39.20	x	100%	=	39.20 KVA
					127.73 KVA
Main Service Entrance Ampere Requirements					354.53 Amps
Main Service Fuse size					OK

- NOTES:
- INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVERS. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS ARE NOT ALLOWED.
  - PROVIDE AN ARC FLASH WARNING SIGN FOR EACH PANEL PER NEC 110.16.

★ INDICATES GFI TYPE BREAKERS

### PANELBOARD NOTES ( )

- KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL LOAD SUMMARIES PER NEC. (KITCHEN EQUIPMENT).
- TERMINATE GROUND ON ISOLATED GROUND BUS.
- ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR CONTROLLED BY TIMECLOCK. REFER TO DETAILS, 11/E-400.
- WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER THE NEC.

PANELBOARD										B		SCHEDULE											
VOLTAGE: 208Y/120V BUS SIZE: 225 AMP										MAINS TOTAL LOAD		225 MLO 53.4 KVA		MOUNTING		RECESSED		REMARKS:		PROVIDED AND INSTALLED BY THE LANDLORD			
No.	SERVES	WIRE SIZE	LTG	RCPT	LOAD (KVA)			BRKR TRIP	P	PH A B C	BRKR TRIP	LOAD (KVA)			WIRE SIZE	SERVES	No.						
1						0.7											2						
3	EF-1	12				0.7		15	3		3	15				0.7	4						
5						0.7										0.7	6						
7						1.3					1	20					8						
9	MAU-1	12				1.3		15	3		1	20					10						
11						1.3					1	20	1.8		10	INDUCT DRY WELL '3J, '3K', - GFI (1.4)	12						
13											1	20					14						
15	ELECTRIC GRILL '23B' (1)	8						40	3		1	20					16						
17											1	20					18						
19	SHUNT								1		1	20			1.0	12	GENERAL RECEPTACLES	20					
21	REFRIG PREP TABLE '34A' (1)	12					1.4	20	1		1	20			0.4	12	EXTERIOR RECEPTACLES	22					
23	REFRIG PREP TABLE '34D' (1)	12					1.1	20	1		1	20			0.5	12	SEC MONITOR / HME - RECEIPT	24					
25	UNDERCTR FREEZER '30K' (1)	12					0.8	20	1		1	20			1.8	12	GAS WATER HEATER - 'P2', GFI	26					
27	BEV DISP '4AB', ICE MACH '10J' (1)	12					0.3	20	1		1	20				0.6	12	W-IN CLR DISP LTS/ MENUE BD/ LED	28				
29	SERVING COUNTER	12		0.1				20	1		1	20					30	SPARE	32				
31	ICE TEA BREWER '9D'	12					1.8	20	1		1	20	0.5			12	HOOD CONTROL PANEL 'M4'	34					
33	LOGO 'S2' (3) / I.D. SIGN 'S1' (1)	10	1.0					20	1		1	20	1.8			10	INDUCT DRY WELL '3J, '3K', - GFI (1.4)	36					
35	FUTURE EQUIPMENT	12		0.2				20	1		1	20	1.8			10	INDUCT DRY WELL '3J, '3K', - GFI (1.4)	38					
37	DINING TV'S	12		0.3				20	1		1	20	1.8			10	INDUCT DRY WELL '3J, '3K', - GFI (1.4)	40					
39	RTU'S CONVENIENT RECEPS	12		0.6				20	1		1	20	1.8			10	INDUCT DRY WELL '3J, '3K', - GFI (1.4)	42					
41	SPARE							20	1		1	20	1.8			10	INDUCT DRY WELL '3J, '3K', - GFI (1.4)	44					
43	SPARE							20	1		1	20	1.8			10	INDUCT DRY WELL '3J, '3K', - GFI (1.4)	46					
45	SPARE							20	1		1	20	1.8			10	INDUCT DRY WELL '3J, '3K', - GFI (1.4)	48					
47	DUCT DETECTORS	12		0.2				20	1		1	20	1.1			12	RADIANT TOP HEATER '1S2B2' (1)	50					
49	FAX '87', MGR '84C', COMP '49A'	12		1.0				20	1		1	20	0.8			12	RADIANT TOP HEATER '1S2B1' (1)	52					
51	MUSIC, VCR, MONITOR	12		0.6				20	1		1	20	1.1			12	RADIANT TOP HEATER '1S2B2' (1)	54					
53	SPARE							20	1		1	20				1.3	12	LIGHTING - DINING AREA	56				
55	SPARE							20	1		1	20				0.8	12	SHOW WINDOW RECEPTACLES	58				
57	CARB. '4B', '95.4-53' (1)	12					0.9	20	1		1	20				0.1	12	LIGHTING - RESTROOMS	60				
59	RICE WARMER '54' (1)	12					0.1	20	1		1	20				0.2	1.3	10	LTG. - FOOD PREP / EM / EF-3M (4)	62			
														CONNECTED KVA		53.4							



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#### REVISIONS:

#### ISSUE DATE:

HEALTH PERMIT SET	06-28-18
BUILDING PERMIT SET	08-14-18

DRAWN BY: G. COLLINS

PANDA PROJECT #: S4-19-D5256  
ARCH PROJECT #: JCDT170409

**NORR**  
ARCHITECTS ENGINEERS PLANNERS

### PANDA EXPRESS

WARM & WELCOME  
6620-6650 RITCHIE HWY TENANT 'A'  
GLEN BURNIE, MD 21061

# E-601

PANELS, SINGLE LINE, LOAD CALC'S

TRUE WARM & WELCOME 2200

## PANEL SCHEDULES 1

NOT TO SCALE E-601

- UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
- NOT USED.
- ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
- 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

NOT TO SCALE E-601

- ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
- NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.

## SERIES RATING NOTES 4

NOT TO SCALE E-601

### ELECTRICAL SERVICE ENTRANCE COORDINATION

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: XXXX  
NAME OF CONTACT: XXXXXXXXXXXXXXXX  
PHONE: (XXX)-XXX-XXXX  
EMAIL: XXXXXXXXXXXX@XXXXX.com

ITEMS	CONTRACTOR		UTILITY COMPANY		LANDLORD	
	FURNISHED BY	INSTALLED BY	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 --(LANDLORD 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 HOUSING, CT'S - SELF CONTAINED METER			X			X
PANDA EXPRESS (TENANT PANELS)					X	X

#### CONTRACTOR NOTE:

- CONTRACTOR TO FIELD VERIFY AND COORDINATE THEIR RESPONSIBILITIES FOR ELECTRICAL SERVICE ENTRANCE WITH ELECTRICAL SERVICE PROVIDER AND THE DEVELOPER; AND PROVIDE BID WITH ALL ASSOCIATED COSTS WITH NO ADDITIONAL COST TO OWNER.

