

- (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).

PNL A	PANELBOARD	
MOUNTING: FLUSH WALL MOUNT	(NEW)	208Y/120V, 3PH, 4W
LOCATION: ELEC. CABINET		400A M.L.O.
TYPE: BOLT ON W/GROUND BUS	INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED	SERIES RATED 65/10K A.I.C.
NEMA RATING: 1		GROUND BUS
		ISOLATED GROUND

DESCRIPTION				WIRE	BRKR	PL	KVA						PL	BRKR	WIRE	DESCRIPTION		
							A		B		C							
1	WC DISPLAY LTS/MENUBRD/LED			12	20	1	0.33	1.00					1	20	12	FAX '87", MGR '84C", COMP '49A	2	
3	HOOD CONT PNL M4			12	20	1			0.50	0.60			1	20	12	MUSIC, VCR, MONITOR	4	
5	SERVICE POS 94, PTR '86A(2,6)			12	20	1					1.10	0.50	1	20	12	COMPUTER RECEPT '83A" (2)	6	
7	D.THRU POS '94/PTR '86A(2,6)			12	20	1	1.10	0.13					1	20	12	10J ICE MACHINE (6)	8	
9	95-4-S3, FLY LT.OO2 (1,6)			12	20	1			0.82	1.41			2	20	12	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	12	REAR DOOR - FLY FAN 'M8A"	14	
15	REF. PREP TABLE '340" (1)			12	20	1			1.08	0.10			1	20	12	FIRE SUPPRES SHUTDOWN	16	
17	UNDER CTR FRZR '30L" (1,4)			10	20	1					1.08	1.18	1	20	12	SIDE DOOR - FLY FAN 'M8C"	18	
19	BEVERAGE DISP. 4AB(1)			12	20	1	1.12	1.30					1	20	10	INDUCT WELL 3F, 3G (1,4,6)	20	
21	SERVING COUNTER			12	20	1			0.10	1.30			1	20	10	INDUCT WELL 3F, 3G (1,4,6)	22	
23	ICE TEA BREWER '90"			12	20	1					1.78	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	24	
25	FOOD PROCESSOR '53"			12	20	1	1.20	1.30					1	20	10	INDUCT WELL 3F, 3G (1,4,6)	26	
27	ELEC. DOR EQUIPMENT			12	20	1			0.72	1.30			1	20	10	INDUCT WELL 3F, 3G (1,4,6)	28	
29	WALK-IN COOLER COIL '31M(1)			12	20	1					0.24	1.30	1	20	10	INDUCT WELL 3F, 3G (1,4,6)	30	
31	RICE HOLD CAB '24H" (1,4,6)			10	20	1	1.78	1.30					1	20	10	INDUCT WELL 3F, 3G (1,4,6)	32	
33	FUTURE CONTROLS (1,6)			12	20	1			0.20	0.84			1	20	10	RAD TOP HEATER '1S2B1" (1)	34	
35	SPARE			12	20	1					1.10		1	20	12	RAD TOP HEATER '1S2B2" (1)	36	
37	4B" BOOSTER OUTLET (6)			12	20	1	0.86	1.10					1	20	12	RAD TOP HEATER '1S2B2" (1)	38	
39	HEAT WRAP '32-S7 (4)			12	20	1			0.50	0.18			1	20	12	SOFFIT MOUNTED RECEPT	40	
41	FLY LIGHT (6)			12	20	1					0.18	1.52	2	20	12	THAWING CABINET	42	
43	DUCT DETECTORS			12	20	1	0.20	1.52										
44	LTG-FOOD PRP/EF3 (4)			10	20	1			1.13									
47	LTG DINING AREA			12	20	1					0.25	1.40	2	15	12	MICROWAVE - 55A (1)	46	
49	SHOW WINDOW RECEPTS			12	20	1	0.90	1.40										
51	SPARE			12	20	1			0.18				1	20	12	FUTURE EQUIPMENT	50	
53	EXTERIOR RECEPTS			12	20	1					0.36			1	20	12	SPARE	52
55	GREASE REMOVAL			12	20	1	0.18	1.23					2	20	12	ICE MACHINE COND. '10J-S" (1)	56	
57	10J ICE MACHINE (6)			12	20	1			0.13	1.23								
59	GAS WATER HEATER - P3, (6)			12	20	1					0.96	3.12	2	40	8	WALKIN FRZR COND. '32-S1"(1,7)	58	
61	ICE TEA BREWER '90" (1,4)			10	20	1	1.78	3.12										
63	LTG - RESTRMS			12	20	1			0.07	3.64			2	35	10	WALK IN COOL COND '31-S" (1)	64	
65	SPARE			12	20	1					3.64							
67	DT WINDOW 'M9A" AIR CURTAIN			12	20	1	0.50	3.07					3	45	6	RTU-3 (LENNOX)	66	
69	DRIVE THRU HOT WELL CABINET			6	50	2			2.20	3.07								
71											2.20	3.07						
73	ELECTRIC GRIDDLE - "23E" (1,6)			6	50	2	3.79	4.03					3	50	6	RTU-2 (LENNOX)	74	
75									3.79	4.03								
77	SPARE			12	20	1					4.03							
79	SPACE								3.07									
81	SPACE										3.07			3	45	6	RTU-1 (LENNOX)	80
83	SPACE																	
PANELBOARD TOTALS CALCULATED				TOTAL			46.18		38.09		40.79		KVA					
PER NEC ARTICLE 220							385		318		340		AMPS					
TOTAL LOAD							125.07		KVA		348		AMPS					
FEEDER LOAD							109.27		KVA		304		AMPS					

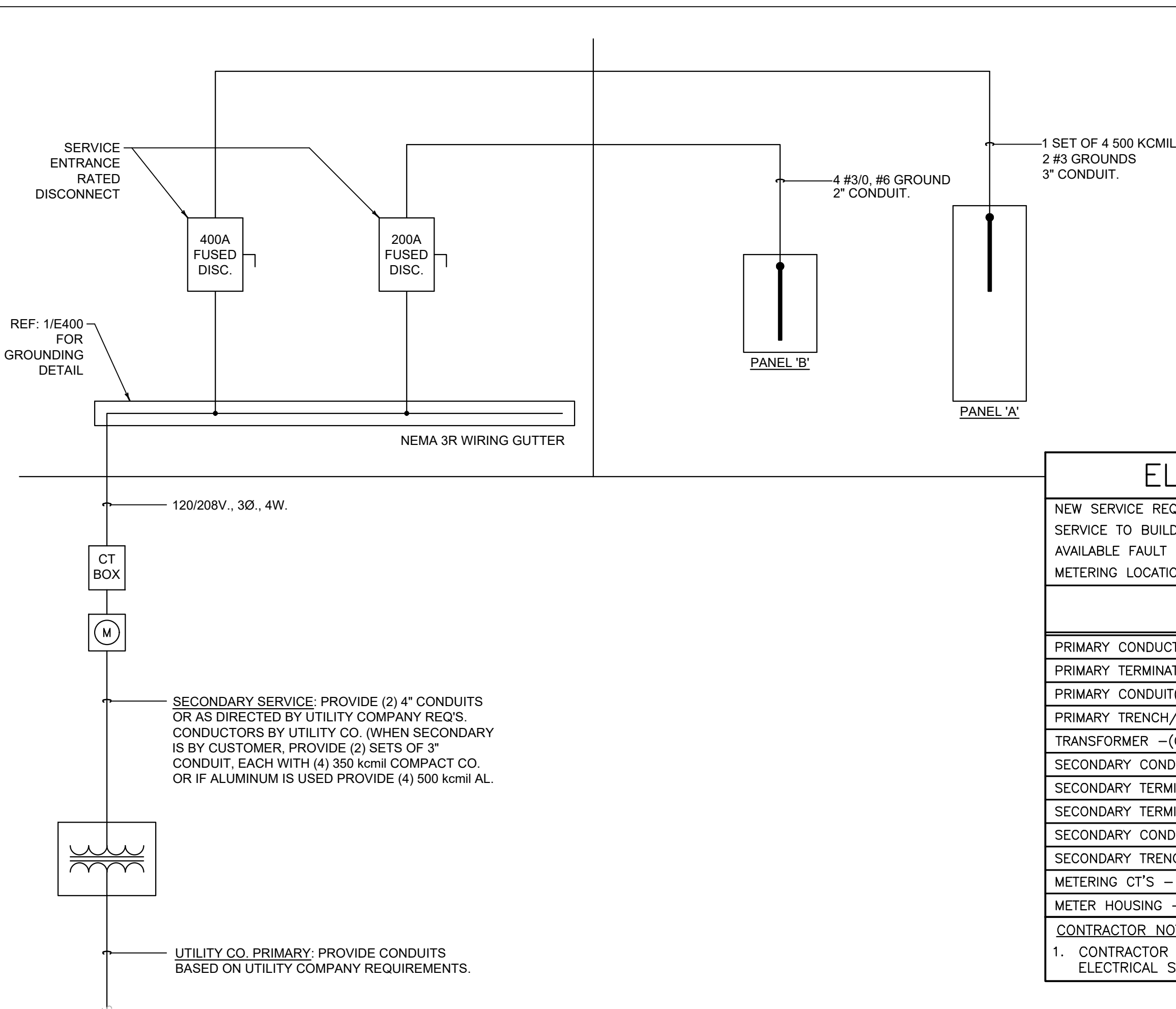
PNL B	PANELBOARD	
MOUNTING: FLUSH WALL MOUNT	(NEW)	208Y/120V, 3PH, 4W
LOCATION: ELEC. CABINET		225A M.I.O.
TYPE: BOLT ON W/GROUND BUS	INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED	SERIES RATED 65/10K A.I.C.
NEMA RATING: 1		GROUND BUS

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	SPARE	12	20	1			1.23								4	
5	SPARE	12	20	1					0.90		1	20	12	21B MJ345 FRYER (1.6)	6	
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						10	
11	SECURITY/POS MONITORS	12	20	1					0.10		5.64					12
13	HYPERACTIVE TIMER SYS.	12	20	1	0.10									SPACE	14	
15	SIGN DISPLAY	12	20	1			0.26							SPACE	16	
17	SPARE	12	20	1										SPACE	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	
39							2.57		2.40						40	
41									2.57		2.40					42
PANELBOARD TOTALS CALCULATED				TOTAL	18.96		18.82		16.22		KVA					
PER NEC ARTICLE 220					158		157		136		AMPS					
TOTAL LOAD					54.00		KVA		150		AMPS					
FEEDER LOAD					54.83		KVA		153		AMPS					

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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% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SEPARATELY 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.

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NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE	UTILITY COMPANY: XXXXXXXXXXXXXXXXXXXX
SERVICE TO BUILDING ROUTED: TBD	NAME OF CONTACT: XXXXXXXXXXXXXXXXXXXX
AVAILABLE FAULT CURRENT: TBD	PHONE: (XXX)-XXX-XXXX
METERING LOCATION: EXTERIOR BUILDING	EMAIL: XXXXXXXXXXXXX@XXXXXX.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		

CONTRACTOR NOTE:

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.

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REVISIONS:

ISSUE DATE:

CHECK SET	06-12-23
PERMIT/BID	06-16-23

DRAWN BY: BDG

PANDA PROJECT #: TBD

PANDA STORE #: TBD

ARCH PROJECT #: 229201

bdg
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PANELS, SINGLE LINE, LOAD CALC'S

PANDA HOME SQUARE 2600 R2