

PANELBOARD NOTES ()

- (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 B

SERVICES: WHOLE BUILDING
LOCATION: ELEC CABINET
MOUNTING: RECESSED

208Y/120V, 3PH, 4W
225A, MLO
REF 1-LINE AIO
EQUIPMENT GROUND BUS

	DESCRIPTION	WIRE	BRKR	PL	KVA A		KVA B		KVA C		PL	BRKR	WIRE	DESCRIPTION		
1	LOGO "S21 D. SIGN" ST (3)	12	20	1	1.20	1.23					2	20	10	ICE MACHINE COND. "10U-ST" (4)	2	
3	EXTERIOR LIGHTING - POLE (3,4)	10	20	1			0.87	1.23							4	
5	EXTERIOR LIGHTING - POLE (3,4)	10	20	1					0.87	0.96	1	20	12	21G MJ345 FRYER (1.6)	6	
7	TICKET PRINTER	12	20	1	0.22	5.64									8	
9	BEV. DISPENSER 4AB (1,4)	10	20	1			1.12	5.64			3	60	6	DISHWASHER	10	
11	SECURITY/POS MONITORS	12	20	1					0.18	5.64					12	
13	HYPERACTIVE TIMER SYS.	12	20	1	0.18	1.50					1	20	10	MENUBOARD (3,4)	14	
15	DINING TV'S	12	20	1			0.26	1.00			1	20	10	DR THRU ORDER SCREEN (4)	16	
17	SPARE		20	1										SPACE	18	
19	COKE CARBONATOR	12	20	1	0.20	2.57									20	
21	MONUMENT SIGN (3,4)	10	20	1			0.50	2.57			3	30	10	CU-2	22	
23	BUILDING LIT/SEM (3)	12	20	1					0.61	2.57					24	
25	MENUBOARD (3,4)	10	20	1	1.50	0.71									26	
27	DR THRU ORDER SCREEN (4)	10	20	1			1.00	0.71							28	
29	RTU'S CONVENIENT RECPTS	12	20	1					0.90	0.71					30	
31	CANOPY LIGHTS (3)	12	20	1	0.16	0.71									32	
33	CANOPY LIGHTS (3)	12	20	1			0.16	0.71			3	15	12	EF-2	34	
35	EXTERIOR MOTION SECURITY LED	12	20	1					0.71	0.71					36	
37					2.57	2.40									38	
39	CU-1	10	30	3			2.57	2.40			3	30	10	MA-1	40	
41									2.57	2.40					42	
TOTAL					20.79		20.74		18.83		KVA					
PER NEC ARTICLE 220					173		173		157		AMPS					
					60.35		KVA		168		AMPS					
FEEDER LOAD					61.50		KVA		171		AMPS					

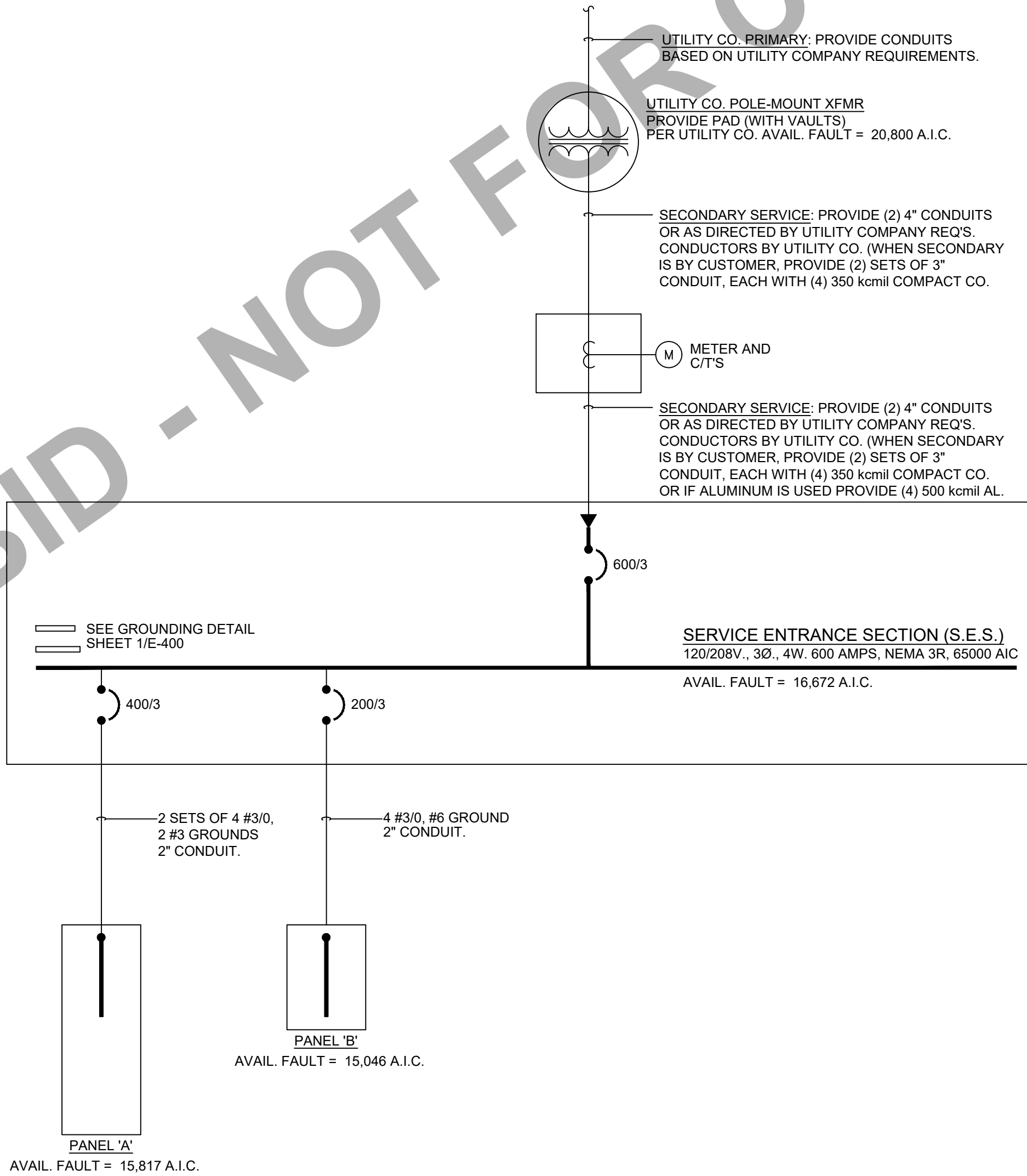
PANEL A

SERVES: WHOLE BUILDING
LOCATION: ELEC. CABINET
MOUNTING: RECESSED

PANELBOARD

208Y/120V, 3PH, 4W
400A, MLO
REF 1-LINE AC
EQUIPMENT GROUND BUS
ISOLATED GROUND BUS

DESCRIPTION		WIRE	BRKR	PL	KVA A		KVA B		KVA C		PL	BRKR	WIRE	DESCRIPTION	
1	WIC DISPLAY LYS/MENUBRDLED	12	20	1	0.33	1.00					1	20	12	FAX '87, MGR 'B4C, COMP 'A4'	2
3	HOOD CONTRL 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 REPT '83A' (2)	6
7	CT THRU POS '94/PTRS '86A (2.6)	12	20	1	1.10	0.13					1	20	12	103 ICE MACHINE (6)	8
9	94-54-3 FLY LIT CO2 (1.6)	12	20	1							2	20	12	CHP-25 'MBA' AIR CURTAIN	12
11	RICE WARMER '54A (1.4)	12	20	1					0.11	1.67					
13	REF. PREP TABLE '340' (1)	12	20	1	1.44	0.61					1	20	12	REAR DOOR- FLY FAN 'MBA'	14
15	REF. PREP TABLE '340' (1)	12	20	1			1.08	0.61			1	20	12	DT DOOR- FLY FAN 'MBC' (7)	16
17	UNDER CTR FRZR '30L' (1.4)	10	20	1					1.08	0.20	1	20	12	FIRE SUPPRES SHUTDOWN	18
19	BEV DISP. '4AB' (1)	12	20	1	1.12	1.30					1	20	10	INDUCT WEL 3F, 3G (1.4,6)	20
21	SERVING COUNTER	12	20	1			0.18	1.30			1	20	10	INDUCT WEL 3F, 3G (1.4,6)	22
23	ICE TEA BREWER '30' (1)	12	20	1					1.78	1.30	1	20	10	INDUCT WEL 3F, 3G (1.4,6)	24
25	FOOD PROCESSOR '33	12	20	1	1.20	1.30					1	20	10	INDUCT WEL 3F, 3G (1.4,6)	26
27	SPARE							1.30			1	20	10	INDUCT WEL 3F, 3G (1.4,6)	28
29	WALK-IN COOLER COIL '31M' (1)	12	20	1					0.24	1.30	1	20	10	INDUCT WEL 3F, 3G (1.4,6)	30
31	RICE HOLD CABINET '24H' (1.4,6)	10	20	1	1.78	1.30					1	20	12	INDUCT WEL 3F, 3G (1.4,6)	32
33	FUTURE CONTROLS (1,6)	12	20	1			0.20	0.84			1	20	12	RAD TOP HEATER '1S281' (1)	34
35	TIMCLOCK	12	20	1					0.10	1.10	1	20	12	RAD TOP HEATER '1S282' (1)	36
37	4F BOOSTER OUTLET (6)	12	20	1	0.86	1.10					1	20	12	RAD TOP HEATER '1S282' (1)	38
39	HEAT WRAP '32-S' (4)	12	20	1			0.50	0.18			1	20	12	FUTURE GREASE REMOVAL	40
41	FLY LIGHT (6)	12	20	1					0.18	0.76	2	20	12	THAWING CABINET	42
43	DUCT DETECTORS	12	20	1	0.20	0.76									44
45	LTG-FOOD PREP/EF-3 (4)	10	20	1			1.08				1	20		SPARE	46
47	LTG - DINING AREA	12	20	1					0.22	1.40	2	15	12	MICROWAVE - 55A (1)	48
49	SHOW WINDOW RECPTS	12	20	1	0.72	1.40					1	20	12	FUTURE EQUIPMENT	50
51	GENERAL RECPTS	12	20	1			0.72	0.18			1	20	12	FUTURE EQUIPMENT	52
53	EXTERIOR RECPTS	12	20	1					0.36	0.18	1	20	12	FUTURE EQUIPMENT	54
55	SPARE				1.23						2	20	12	ICE MACHINE COND. '10US' (1)	56
57	10J ICE MACHINE (6)	12	20	1			0.13	1.23							58
59	GAS WATER HEATER - P2, GFCI (6)	12	20	1					1.80	2.08	2	25	10	WALK IN FRZR COND. '32-S1' (1.7)	60
61	ICE TEA BREWER '30' (1.4)	10	20	1	1.78	2.08									62
63	LIGHTING - RESTROOMS	12	20	1			0.07	1.56			2	20	12	WALK IN COOL COND '31-S1' (1)	64
65	SPARE									1.56					66
67	SPARE				6.91										68
69	DRIVE THRU HOT WELL CABINET	6	50	1			5.40	6.91			3	50	6	RTU-3 (LENNOX)	70
71	SPARE									6.91					72
73	ELECTRIC GRIDDLE - '23E' (1.6)	6	50	2	3.79	6.91					3	50	6	RTU-2 (LENNOX)	74
75							3.79	6.91							76
77	SPACE									6.91					78
79	SPACE						4.70								80
81	SPACE							4.70			3	45	8	RTU-1 (LENNOX)	82
83	SPACE									4.70					84
TOTAL					45.05		42.46		37.54		KVA				
PER NEC ARTICLE 220					375		354		313		AMPS				
					125.05		KVA		347		AMPS				
FEEDER LOAD					110.27		KVA		306		AMPS				



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. CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
3. ALL WIRE #8 AND SMALLER TO BE THW/NTHHN CU.; #6 AND LARGER TO BE XHHW CU.
4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
5. E.C. SHALL PROVIDE GROUNDING PER NEC ARTICLE 250, RE. 1/E400 FOR ADDITIONAL INFORMATION.

SINGLE LINE DIAGRAM GENERAL NOTES		3
	NOT TO SCALE	E-601

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 SEES 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 15,817 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". AT PANEL 'B' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 15,046 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) HI-LIGHTING 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

SES

PANELBOARD

208Y/120V 3PH, 3W, 4W
600A MCB
REF 1-LINE A/C
EQUIPMENT GROUND BUS
ISOLATED GROUND BUS

SERVICES: WHOLE BUILDING
LOCATION: OUTSIDE (IN NEMA 3R ENCLOSURE)
MOUNTING: SURFACE

DESCRIPTION							WIRE	BRKR	PL	KVA A			KVA B			KVA C			PL	BRKR	WIRE	DESCRIPTION						
1											45.05															2		
3	PNLBD A (5)								400	3				42.46						3			SPACE			4		
5																	37.54									6		
7											20.79															8		
9	PNLBD B (5)								200	3				20.74						3			SPACE			10		
11																	18.83									12		
13																										14		
15	SPACE									3										3			SPACE			16		
71																										18		
TOTAL														65.84			63.20			56.37			KVA					
PER NEC ARTICLE 220														549			527			470			AMPS					
														TOTAL LOAD			185.40			KVA			515			AMPS		
														FEEDER LOAD			175.08			KVA			486			AMPS		

PANEL SCHEDULES		1
	NOT TO SCALE	E-601

ELECTRICAL SERVICE ENTRANCE COORDINATION				
NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE			UTILITY COMPANY: EASLEY COMBINED UTILITIES	
SERVICE TO BUILDING ROUTED: UNDERGROUND			NAME OF CONTACT: MR. ALEX DYE	
AVAILABLE FAULT CURRENT: 20,800			PHONE: (864)–859–4013	
METERING LOCATION: EXTERIOR BUILDING			EMAIL: adye@easleyutilities.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 SOCKET	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.				

SINGLE LINE DIAGRAM	2
NOT TO SCALE	E-601



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REVISIONS:

[illegible]

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03.04.2022

PANDA EXPRESS

TRUE WARM AND WELCOME 2200
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CONCORD, NC 28027

E-601

PANELS, SINGLE LINE, LOAD CALC'S

TRUE WARM & WELCOME 2200 R4