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 MAITENANCE).

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL A — PANELBOARD (NEW)

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

INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS 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 A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
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 CONTL 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 RECEP '83A' (2)	6
7	D.THRU POS '94'/PTRS '86A'(2,6)	12	20	1	1.10	0.13		1	20	12	10J ICE MACHINE (6)	8
9	95-4-S3', FLY LT,CO2 (1)	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 '34D' (1)	12	20	1	1.44	1.18		1	20	12	REAR DOOR - FLY FAN 'M8A'	14
15	REF. PREP TABLE "34D" (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 '9D'	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	SPARE		20	1			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	12	RAD TOP HEATER '1S2B1' (1)	34
35	TIMECLOCK	12	20	1			0.01	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	FUTURE EQUIPMENT	40
41	FLY LIGHT	12	20	1			0.18	0.87	1	20	12	THAWING CABINET	42
43	DUCT DETECTORS	12	20	1	0.20			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 RECEPS	12	20	1	0.90	1.40							50
51	GENERAL RECEPS	12	20	1		0.72	0.18	1	20	12	FUTURE EQUIPMENT	52
53	EXTERIOR RECEPS	12	20	1			0.36	0.36	1	20	10	HOT BOX	54
55	SPARE		20	1		1.23		2	20	12	ICE MACHINE COND. '10J-S' (1)	56
57	10J ICE MACHINE (6)	12	20	1		0.13	1.23					58
59	GAS WATER HEATER - P3, (6)	12	20	1			1.80	3.33	2	40	8	WALKIN FRZR COND. '32-S1'(1,7)	60
61	ICE TEA BREWER "9D" (1,4)	10	20	1	1.78	3.33							62
63	LTG - RESTRMS	12	20	1		0.07	2.81	2	35	10	WALK IN COOL COND '31-S' (1)	64
65	SPARE		20	1				2.81					66
67	DT WINDOW 'M9A' AIR CURTAIN	12	20	1	0.50	5.52			3	50	6	RTU-3 (LENNOX)	68
69		10	20	1		1.30	5.52						70
71		10	20	1			1.30	5.52					72
73	ELECTRIC GRIDDLE - "23E" (1,6)	6	50	2	3.79	5.52		3	50	6	RTU-2 (LENNOX)	74
75						3.79	5.52					76
77	SPARE							5.52				78
79	SPACE					3.96		3	45	6	RTU-1 (LENNOX)	80
81	SPACE						3.96					82
83	SPACE							3.96				84
	PANELBOARD TOTALS CALCULATED			TOTAL	43.25	35.28	38.75	KVA				
	PER NEC ARTICLE 220				361	295	323	AMPS				
				TOTAL LOAD	117.29	KVA	326	AMPS				
				FEEDER LOAD	103.26	KVA	287	AMPS				

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL B — PANELBOARD (NEW)

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

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

208Y/120V, 3PH, 4W
225A M.L.O.
SERIES RATED 65/10K A.I.C.
GROUND BUS

	DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
1	BUILDING SIGN/LOGO (3)	12	20	1	1.00	1.23		2	20	10	ICE MACHINE COND. '10J-S1' (4)	2
3	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1		0.89	1.23					4
5	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1			0.45	0.90	1	20	12	21B MJ345 FRYER (1,6)	6
7	TICKET PRINTER	12	20	1	0.22	5.64		3	60	6	DISHWASHER	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	DINING TV'S	12	20	1		0.26					SPACE	16
17	SPARE		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)	10	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	19.71	16.67	KVA				
	PER NEC ARTICLE 220				158	165	139	AMPS				
				TOTAL LOAD	55.34	KVA	154	AMPS				
				FEEDER LOAD	50.58	KVA	141	AMPS				

SES — SWITCHBOARD (NEW)

MOUNTING: SURFACE
LOCATION: OUTSIDE IN NEMA 3R ENCLOSURE

208Y/120V, 3PH, 4W
600A M.C.B.
65,000 AIC
GROUND BUS
ISOLATED GROUND

	DESCRIPTION	WIRE	BRKR	PL	KVA A	KVA B	KVA C	PL	BRKR	WIRE	DESCRIPTION	
1	PANELBOARD "A" (5)		400	3	43.25							2
3						35.28					SPACE	4
5							38.75					6
7					18.96							8
9	PANELBOARD "B" (5)		200	3		19.71					SPACE	10
11							16.67					12
13												14
15	SPACE										SPACE	16
17												18
	PANELBOARD TOTALS CALCULATED			TOTAL	62.21	55.00	55.43	KVA				
	PER NEC ARTICLE 220				519	459	462	AMPS				
				TOTAL LOAD	172.63	KVA	480	AMPS				
				FEEDER LOAD	153.84	KVA	428	AMPS				

Total VA per system

1) General Receptacles - 1st 10,000VA	=	9,904	x	1.00	=	9,904
2) General Receptacles - over 10,000VA	=		x	0.50	=	
3) Kitchen Equipment	=	59,943	x	0.65	=	38,963
4) Lighting	=	4,403	x	1.25	=	5,504
5) HVAC	=	68,154	x	1.00	=	68,154
6) Refrigeration	=	17,180	x	1.00	=	17,180
7) Continuous	=	4,356	x	1.25	=	5,445
8) Non-Continuous	=	8,688	x	1.00	=	8,688
9) Spare	=		x	1.00	=	
Total VA per system	=	172,628				153,837
Panelboard voltage	=	360				360
Total Connected Load (amperes)	=	480				
Total Diversified Load (amperes)	=					428

PANEL SCHEDULES 1

NOT TO SCALE E-601

SINGLE LINE DIAGRAM GENERAL NOTES 3

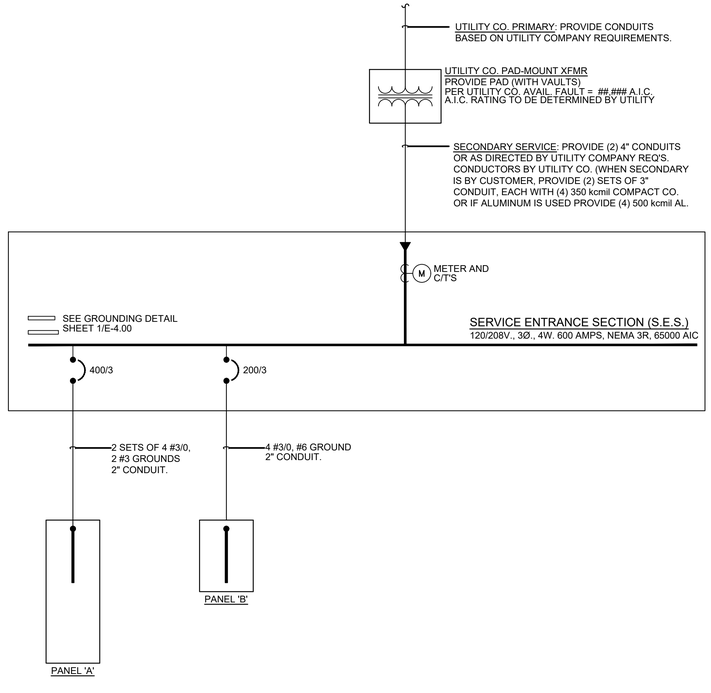
NOT TO SCALE E-601

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 THWN/THHN 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.

SERIES RATING NOTES 4

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 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) 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.



SINGLE LINE DIAGRAM 2

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: XXXXXXXXXXXXXXXXX
NAME OF CONTACT: XXXXXXXXXXXXXXXXX
PHONE: (XXX)-XXX-XXXX
EMAIL: XXXXXXXXXXX@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		

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.

[redacted]

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Facsimile: 626.372.8288

[redacted]

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[redacted]

REVISIONS:

3	OWNER REVISIONS	01-27-22

[redacted]

ISSUE DATE:

ISSUE FOR PERMIT	01-29-21
ISSUE FOR BID	04-30-21
ISSUE FOR BID 2	11-02-21
ISSUE FOR BID (DT)	02-04-22

[redacted]

DRAWN BY: AE

[redacted]

PANDA PROJECT #: D8164
PANDA STORE #: -
ARCH PROJECT #: 261-321

[redacted]

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COMMONWEALTH OF VIRGINIA
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NEWPORT NEWS,VA 23605

[redacted]

E-601

PANELS, SINGLE LINE, LOAD CALC'S

[redacted]

TRUE WARM & WELCOME 2300 R6

ISSUE FOR PERMIT 11-02-21