

#	DATE	TITLE

PROJECT NUMBER:
00-000

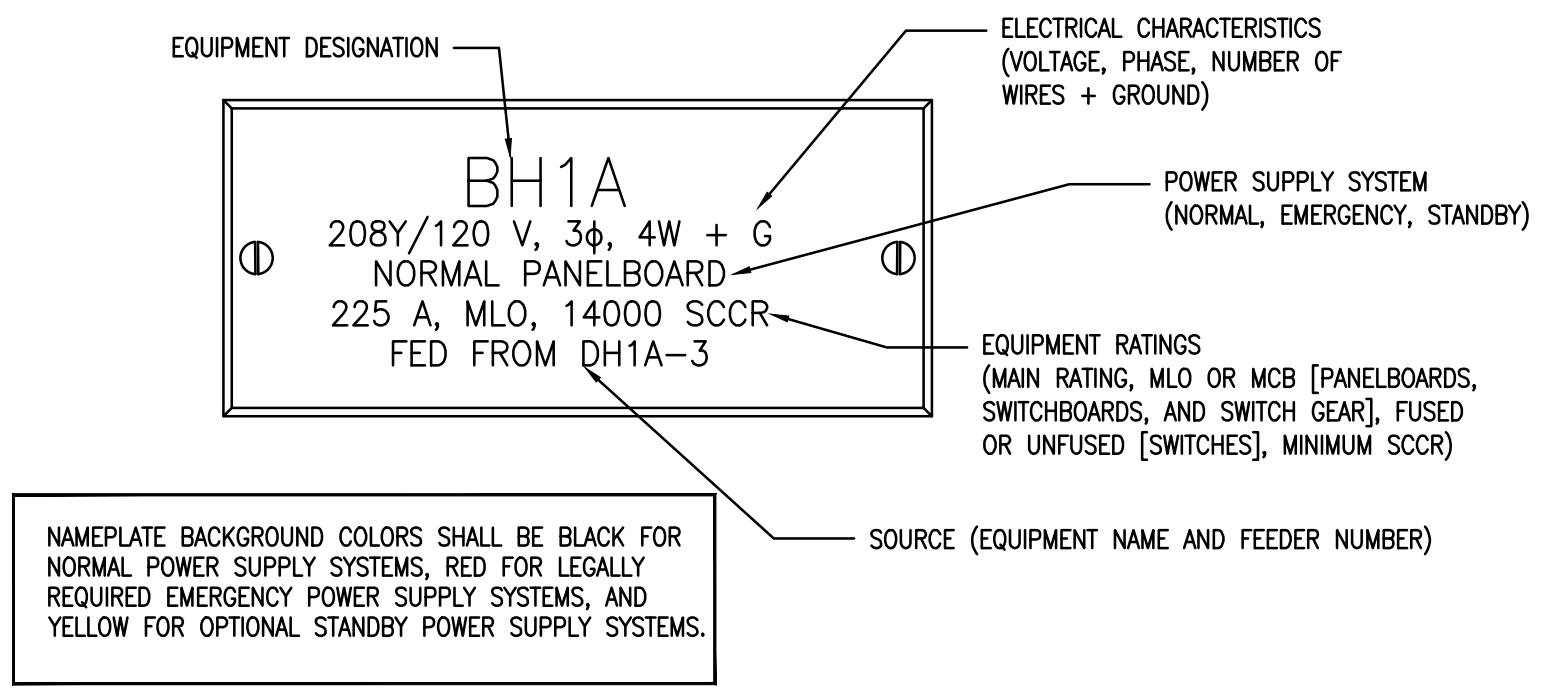
1167 PACE ST. - PHASE I
1167 PACE ST, COVINGTON, GA

RISER DIAGRAM & DETAILS

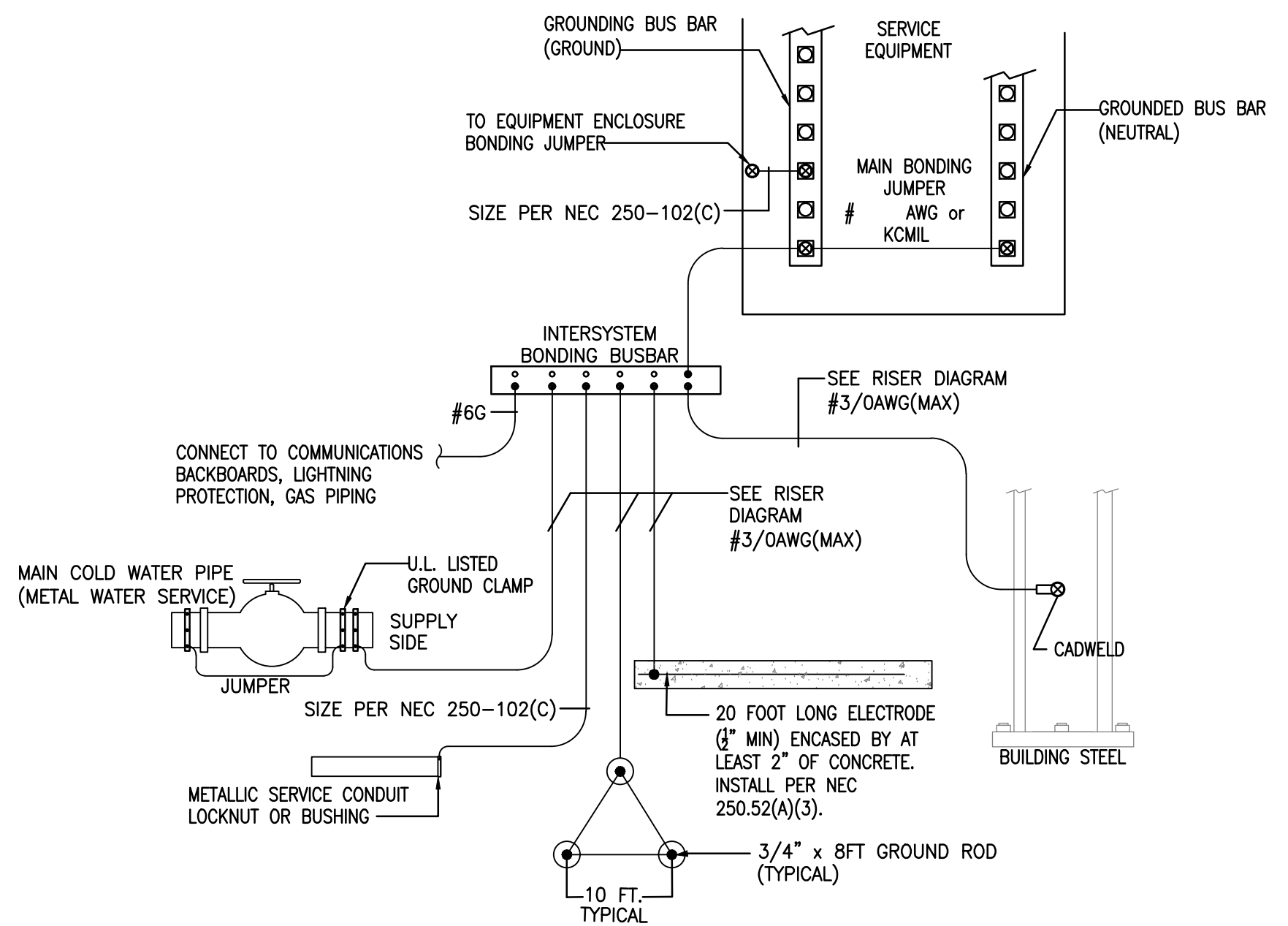
E002

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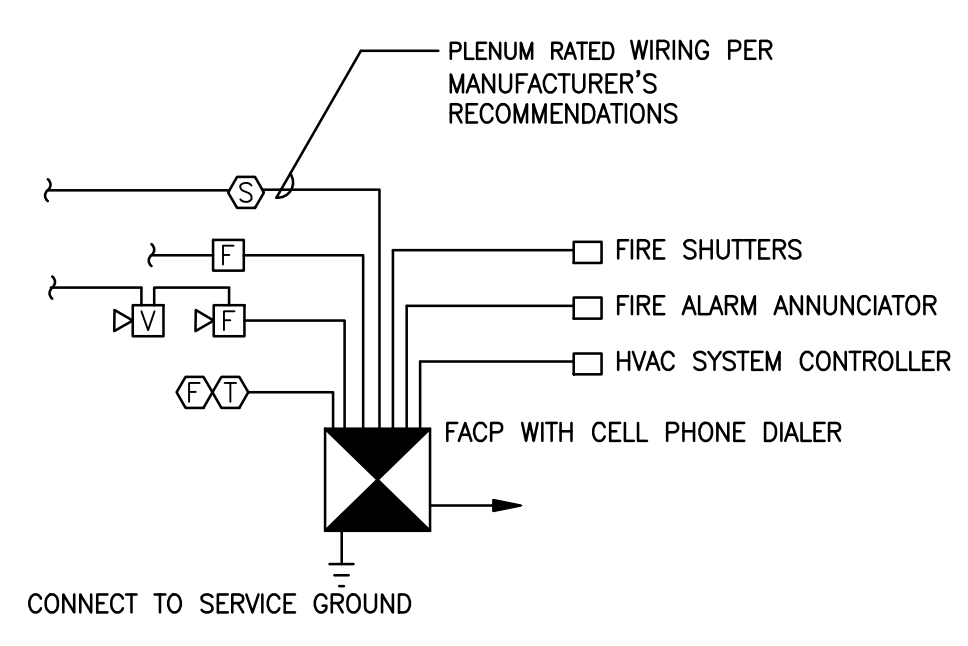
RELEASED FOR CONSTRUCTION



3 EQUIPMENT NAMEPLATE DETAIL



3 GROUNDING DIAGRAM

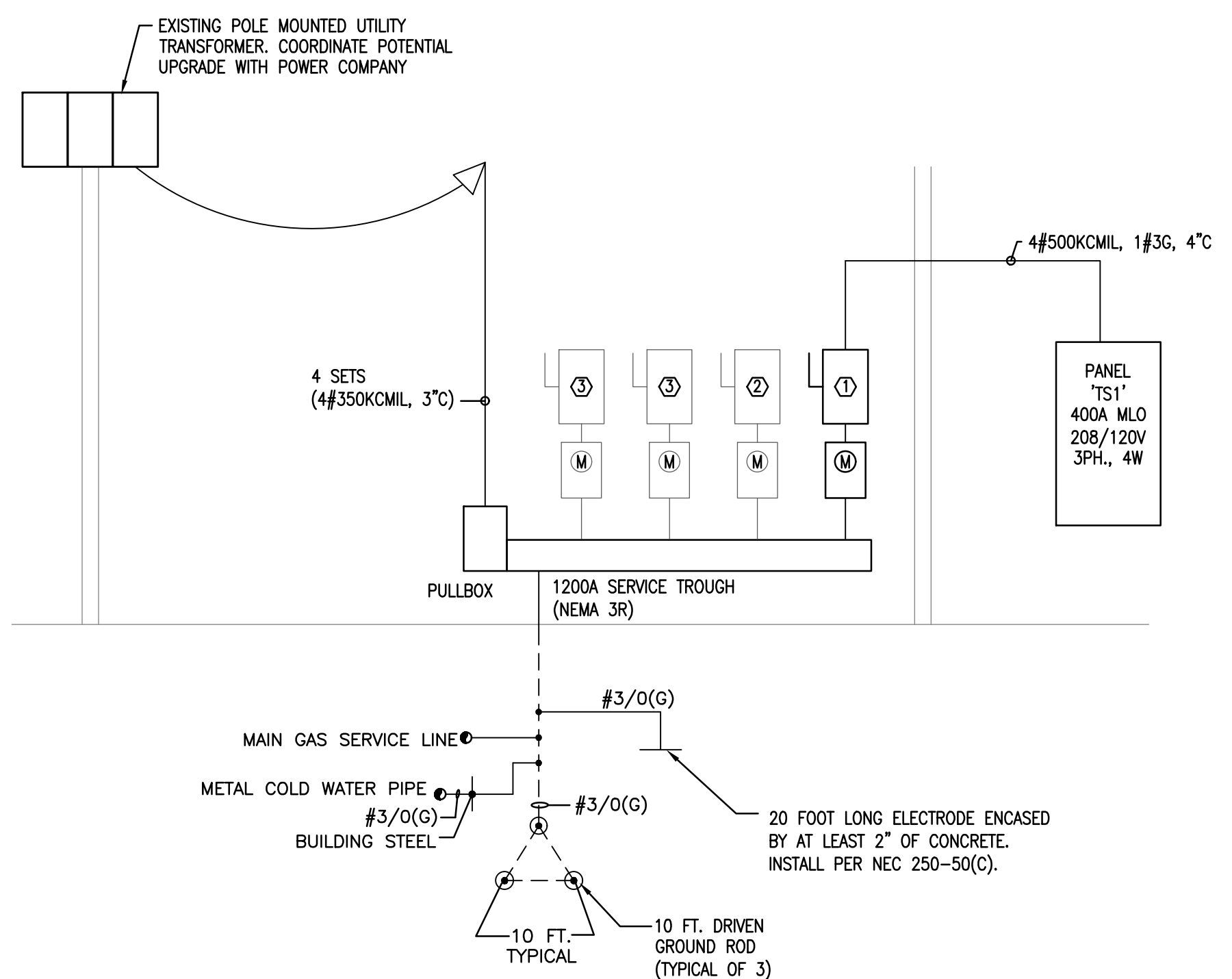


1. INSTALL FIRE ALARM SYSTEM IN ACCORDANCE WITH ADA AND ALL LOCAL CODES/FIRE MARSHAL REQUIREMENTS.
2. PROVIDING WIRING PER MANUFACTURER'S RECOMMENDATIONS.
3. CONNECT SYSTEM TO HVAC SYSTEM CONTROLLERS FOR SHUTDOWN OF ENTIRE HVAC SYSTEM UPON ALARM.
4. THE SEQUENCE OF OPERATION SHALL BE THAT ACTUATION OF ANY MANUAL OR AUTOMATIC SENSORS SHALL CAUSE:
 1. ALL BUILDING ALARM DEVICES TO SOUND
 2. SHUT-DOWN OF ALL VENTILATION EQUIPMENT
5. PROVIDE NFPA 72 COMPATIBLE CELL PHONE DIALER FULLY COMPATIBLE WITH FIRE ALARM SYSTEM AND CONFIGURED PER OWNER'S INSTRUCTIONS.

2 FIRE ALARM RISER DIAGRAM

PANELBOARD SCHEDULE TS1																									
MAIN: 400 A MLO		VOLTAGE: 208/120 3 PHASE 4 WIRE					AIC 42,000					MOUNTING SURFACE													
CKT #	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	WH/ EV	NON/ CON	BKR TYPE	TRIP/ POLE	PHASE	TRIP/ POLE	BKR TYPE	LTG	REC	MTR	A/C	HTG	KIT	WH/ EV	NON/ CON	DESCRIPTION	CKT #	
1	MICROWAVE		0.8							GF	20/1	A	20/1			0.4								TBB RECEPTACLE	2
3	DISHWASHER		0.8							GF	20/1	B	20/1			1.1								RESTROOM/ELEC RM RECEPT	4
5	COFFEE MAKER		0.8							GF	20/1	C	20/1			0.7								CONFERENCE RM RECEPT	6
7	REFRIGERATOR		0.8							GF	20/1	A	20/1			0.9								CONFERENCE RM RECEPT	8
9	EWG		0.8							GF	20/1	B	20/1			0.9								CONFERENCE RM RECEPT	10
11	BREAKROOM COUNTER RECEPT		0.5							20/1	C	20/1			1.3									MIC CONFERENCE RM RECEPT	12
13	BREAKROOMMECH RECEPT		0.9							20/1	A	20/1			0.5									MIC STORAGE RECEPTACLES	14
15	PRINTER		0.8							20/1	B	20/1			0.7									MIC OFFICE RECEPTACLES	16
17	PLOTTER		0.8							20/1	C	20/1			1.1									MIC OFFICE RECEPTACLES	18
19	SHREDDER		0.8							20/1	A	20/1			0.7									OFFICE RECEPTACLES	20
21	COPIER		0.8							20/1	B	20/1			0.7									OFFICE RECEPTACLES	22
23	PRINT/SHRED/OFFICE RECEPT		0.7							20/1	C	20/1			0.9									OFFICE RECEPTACLES	24
25	OFFICE RECEPTACLES		0.9							20/1	A	20/1			0.9									ENTRY/HALL/CONF LIGHTING	26
27	OPEN OFFICE RECEPTACLES		0.9							20/1	B	20/1			1.2									MIC SUITE LIGHTING	28
29	OPEN OFFICE RECEPTACLES		0.7							20/1	C	20/1			1.3									OFFICE LIGHTING	30
31	FACP								0.5	20/1	A	20/1												SPARE	32
33	ILLUMINATED SIGNAGE		1.0							20/1	B	20/1												SPARE	34
35	SPARE									20/1	C	20/1												SPARE	36
37	SPARE									20/1	A	20/1												SPARE	38
39	SPARE									20/1	B	20/1												SPARE	40
41	SPARE									20/1	C	20/1												SPARE	42
43	SPARE									20/1	A	20/1												SPARE	44
45	SPARE									20/1	B	20/2				1.5								EIM-A	46
47	SPARE									20/1	C	---				1.5								---	48
49	MH-1								2.3	30/2	A	20/1			0.3									HWRP-1	50
51	---								2.3	---	B	20/2			1.1									CU-1	52
53	FC-1				3.2					40/2	C	---			1.1									---	54
55	---				3.2					---	A	20/2			1.1									CU-2	56
57	FC-2				3.2					40/2	B	---			1.1									---	58
59	---				3.2					---	C	20/2			1.1									CU-3	60
61	FC-3				3.2					40/2	A	---			1.1									---	62
63	---				3.2					---	B	20/2			1.0									CU-4	64
65	FC-4				2.1					25/2	C	---			1.0									---	66
67	---				2.1					---	A	30/3			1.7									CU-5	68
69	FC-5				4.2					60/2	B	---			1.7									---	70
71	---				4.2					---	C	---			1.7									---	72
LIGHTING:		4.4 CONNECTED (KVA)		128%		= 5.5 DEMAND (KVA)		CONNECTED LOAD (KVA):		79.9		DEMAND PER		198.6 A											
RECEPTACLES:		21.7 FIRST 10kVA x 100% + REMAINING x 50%		= 15.9		CONNECTED LOAD (KVA):		76.3		DEMAND PER		250.5 B		235.2 C											
MOTORS:		0.3 100% + 25% LARGEST MOTOR LOAD		= 0.3		CONNECTED LOAD (AMPS):		221.8		CONNECTED PER		192.1 A		241.3 B											
A/C:		45.5 100%		= 45.5		DEMAND LOAD (AMPS):		211.7		PHASE (AMPS)		232.5 C													
HEATING:		3.0 100%		= 3.0		PANEL AMPACITY REQUIRED:		250.5																	
KITCHEN:		0.0 65%		= 0.0		NOTES:																			
WATER HEATER/EV CHARGER:		4.5 125%		= 5.6		BREAKER TYPES: GF=GFCL, AF=AFCL, SH=SHUNT TRIP, SW=SWITCHED NEUTRAL, L=LOCKABLE																			
DEDICATED/NONCONTINUOUS:		0.5 100%		= 0.5		HVAC NOTE: DESIGN BASIS EQUIPMENT FOR THIS PROJECT USES A1 TYPE REFRIGERANTS, INCLUDING R410A. CURRENT REFRIGERANT RULES FROM THE EPA IMPOSES RESTRICTIONS ON A1 TYPE REFRIGERANTS, INCLUDING EQUIPMENT MANUFACTURED AFTER 1/1/2025 OR INSTALLED AFTER 1/1/2026. IF CONSTRUCTION RESULTS IN EQUIPMENT CHANGES TO A2L TYPE REFRIGERANT, THERE WILL BE CHANGES REQUIRED TO MEET ASHRAE 15-2022, INCLUDING EQUIPMENT, CONTROLS, ELECTRICAL AND SAFETY REQUIREMENTS.																			

1 POWER RISER DIAGRAM



- KEYNOTES:
- ① 400/3/400AF/3R DISCONNECT SWITCH.
 - ② FUTURE 400/3/400AF/3R DISCONNECT SWITCH.
 - ③ FUTURE 200/3/200AF/3R DISCONNECT SWITCH.