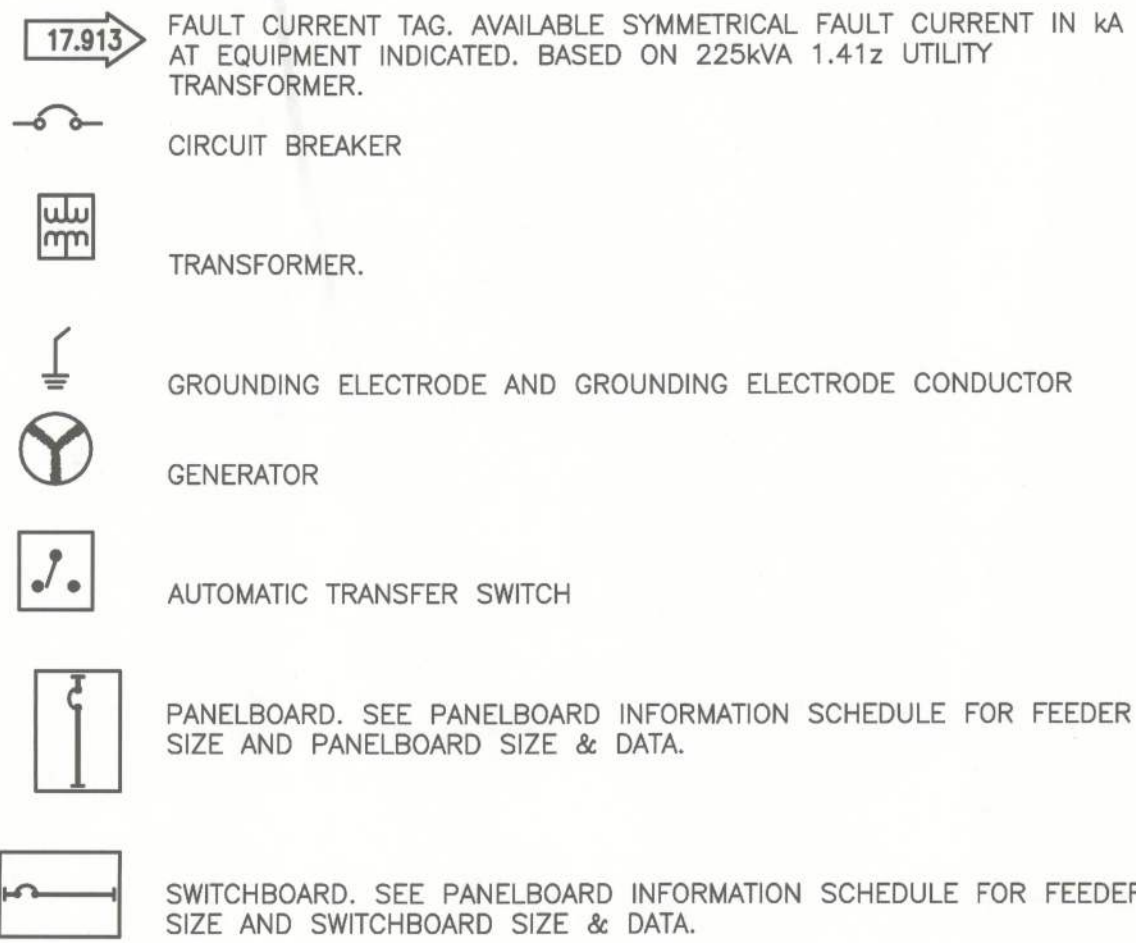


SINGLE LINE DIAGRAM LEGEND



NOTE: OTHER SYMBOLS SHOWN IN THE SINGLE LINE DIAGRAM MAY BE IDENTIFIED IN THE MAIN ELECTRICAL LEGEND

SINGLE LINE DIAGRAM NOTES

- 1 #1/0 GEC TO THREE 20' GROUND RODS ON 20' CENTERS IN EQUILATERAL DELTA ARRANGEMENT.
- 2 #1/0 BONDS TO FOUNDATION REBAR, BUILDING WATER SERVICE, NATURAL GAS SERVICE, BUILDING STEEL, AND GENERATOR GROUND.
- 3 NOT USED
- 4 2 RUNS 4#350MCM 3" EACH
- 5 2 RUNS 4#350 MCM 1# 2/0 GRD 3" EACH
- 6 600/3 NEMA 1 SERVICE RATED 22 KAIC ENCLOSED CIRCUIT BREAKER.

PANELBOARD NOMENCLATURE

THE FOLLOWING APPLIES TO SWITCHBOARD AND PANELBOARD TAGS FOUND IN THESE DRAWINGS:

FIRST VALUE INDICATES VOLTAGE:
2 = 208/120V

THIRD VALUE INDICATES BUILDING FLOOR LOCATION:
1 = FIRST FLOOR

FOURTH VALUE INDICATES INDEX FOR MORE THAN ONE TYPE OF PANEL PER FLOOR:
A = 1ST PANEL
B = 2ND PANEL

SECOND VALUE INDICATES TYPE OF LOADS SERVED:
D = DISTRIBUTION
P = GENERAL POWER

PANELBOARD INFORMATION SCHEDULE

TAG	ENCLOSURE TYPE	MOUNTING STYLE	VOLTAGE	Ø	WIRE	MAIN BKR	IF MLO, SERVING BKR	SERVICE RATED	KAIC RATING	Ø BUS RATING (A)	N BUS RATING	FEEDER			NOTES
												CONDUCTORS	GROUND	CONDUIT	
2D1A	NEMA 1	SURFACE	208Y/120	3	4	MLO	600	NO	22	600	100%	2 RUNS 4#350	#2/0	3" EA	1
2P1A	NEMA 1	FLUSH	208Y/120	3	4	MLO	200	NO	10	225	100%	4#3/0	#4	2 1/2" C	
2P1B	NEMA 1	SURFACE	208Y/120	3	4	MLO	225	NO	10	225	100%	4#4/0	#2	2 1/2" C	
2P1C	NEMA 1	SURFACE	208Y/120	3	4	MLO	100	NO	10	100	100%	4#1	#6	1 1/2" C	
2P1D	NEMA 1	SURFACE	208Y/120	3	4	MLO	100	NO	10	100	100%	4#1	#6	1 1/2" C	
2P1E	NEMA 1	FLUSH	208Y/120	3	4	MLO	100	NO	10	100	100%	4#1	#6	1 1/2" C	
2P1F	NEMA 1	SURFACE	208Y/120	3	4	MLO	200	NO	10	225	100%	4#3/0	#4	2 1/2" C	
2P1G	NEMA 3R	SURFACE	208Y/120	3	4	MLO	225	NO	22	225	100%	4#4/0	#2	2 1/2" C	
NOTES 1. PROVIDE INTEGRAL TVSS.															

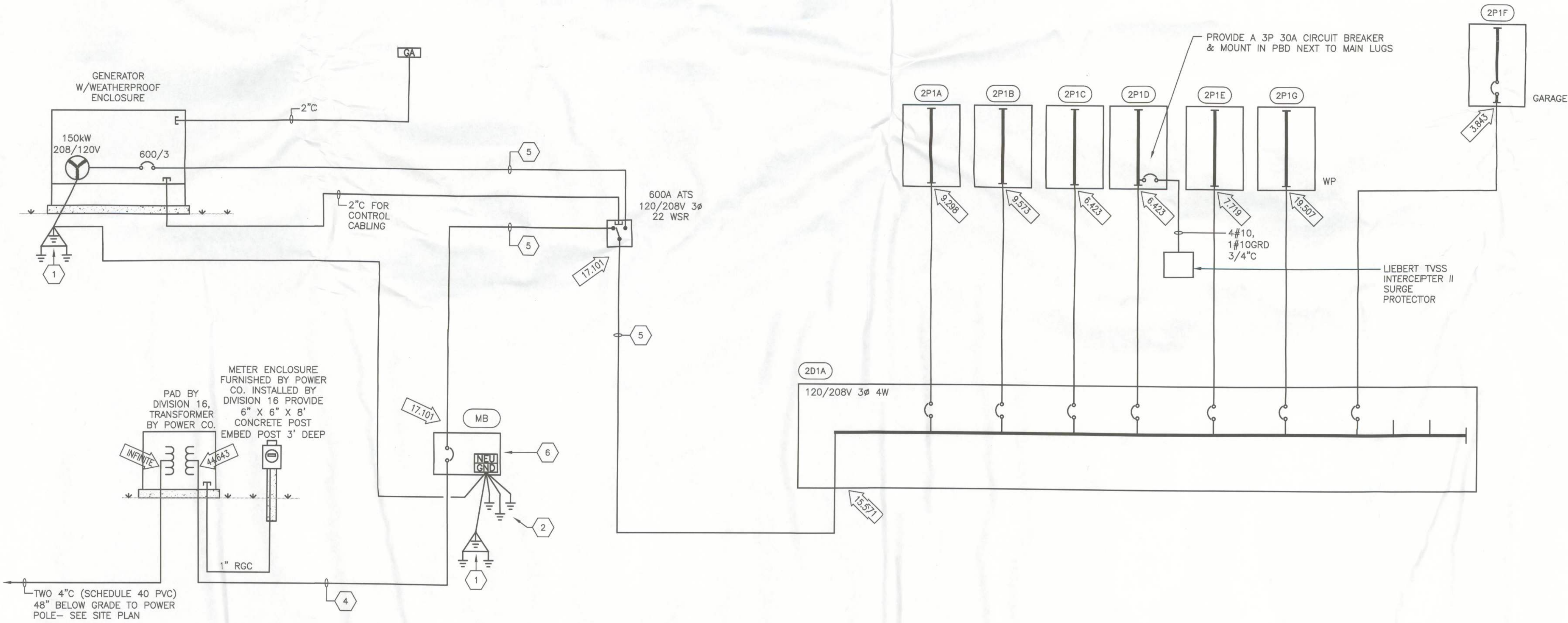
ELECTRICAL LOAD CALCULATIONS

LIGHTING	(OFFICE BLDG 7496 SQ FT) @ 3.5VA	26236VA
(PER NEC 220.12)	(WAREHOUSE 2166 SQ FT) @ 0.25VA	542VA
	(GARAGE 1233 SQ FT) @ 0.5 VA	617VA
RECEPTACLES	(176 @180VA EA = 31680 VA)	10000VA
	1ST 10 KW @ 100%	10840VA
	REMAINDER 21680 @ 50%	4500VA
EWI		32685VA
MISC	3 VA PER SQ FT (10895 SQ FT)	83343VA
HVAC		
		TOTAL 168763VA

$$\frac{168763}{208 \times 1.73} = 469.0 \text{ AMPS}$$

$$\frac{168763}{208 \times 1.73 \times 1.25} = 586.3 \text{ AMPS}$$

A 600A 208Y/120V 3Ø SERVICE WILL BE PROVIDED.



SINGLE LINE DIAGRAM
SCALE: NONE

Brame
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Clay Electric Cooperative, Inc.
NEW DISTRICT OFFICE
1659 SW State Road 47 Lake City, Florida



MARK R. AKIN
PE - 0059242

SINGLE LINE
DIAGRAM

DRAWN BNH
CHECKED MTR
DATE 02/07/12
GAD 3702060/CD

REVISIONS

FILE NO. 3702.060
S H E E T

E2.0

Bid Documents

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