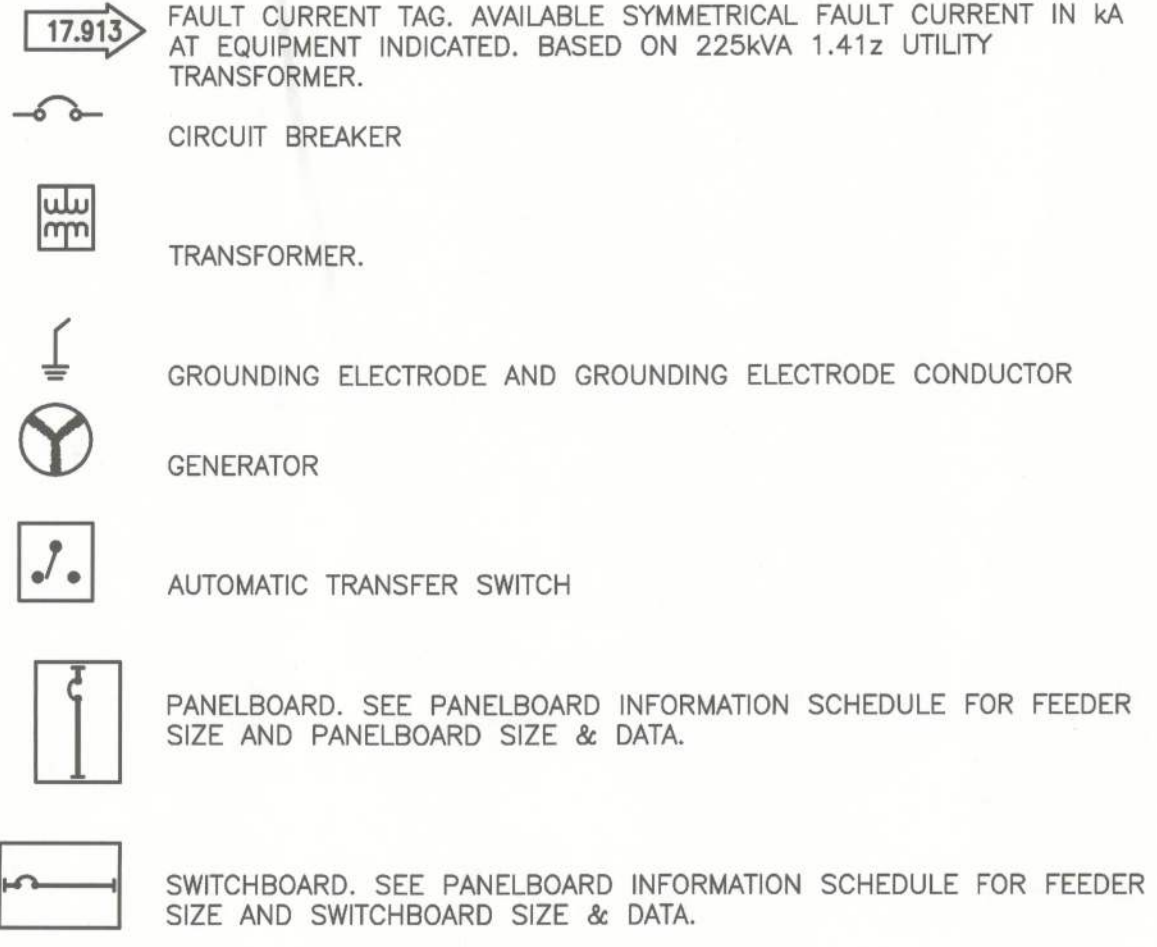


SINGLE LINE DIAGRAM LEGEND



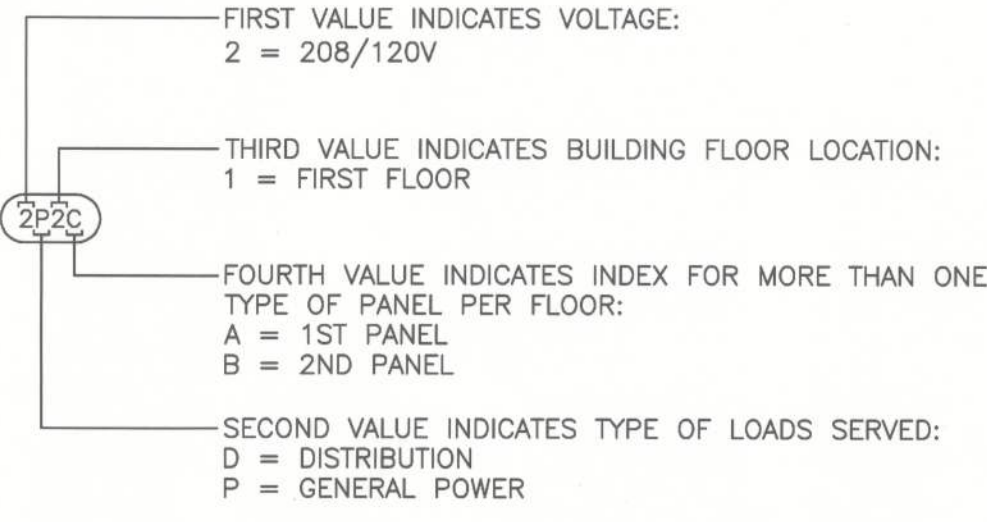
NOTE: OTHER SYMBOLS SHOWN IN THE SINGLE LINE DIAGRAM MAY BE IDENTIFIED IN THE MAIN ELECTRICAL LEGEND

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:



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.															

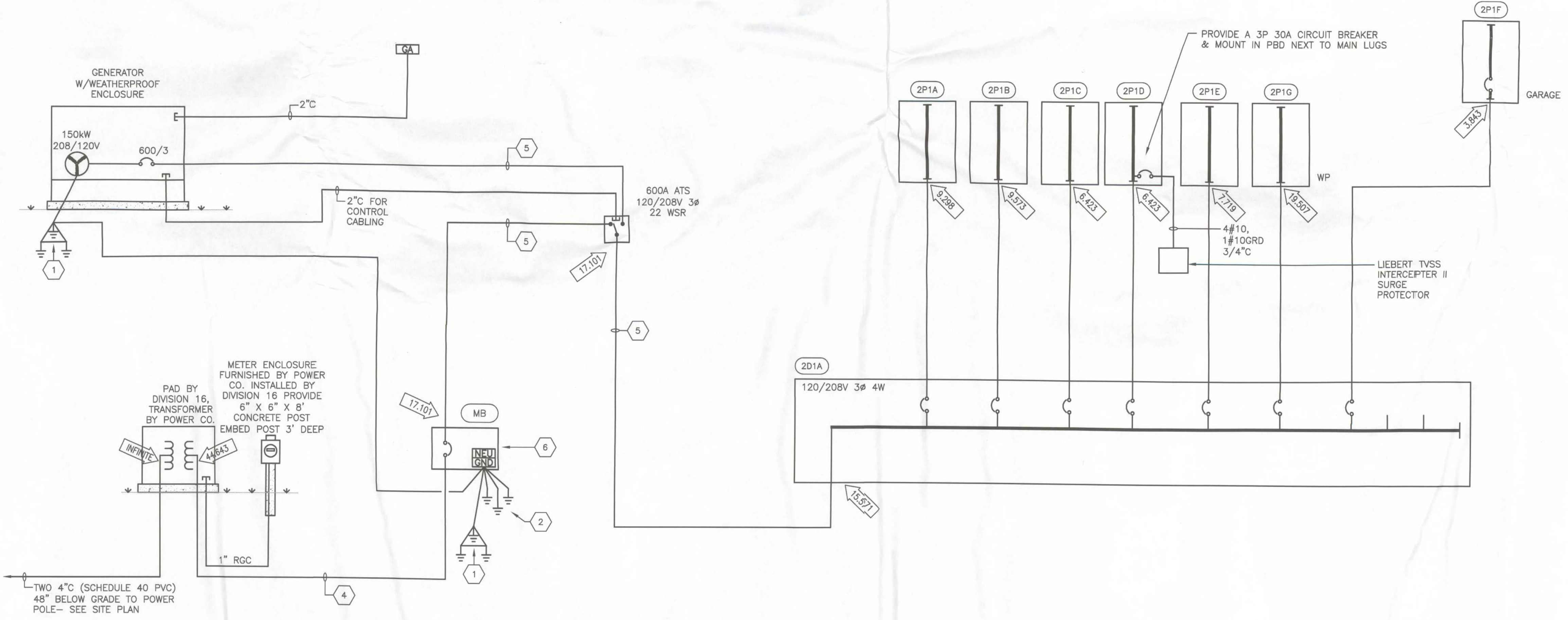
ELECTRICAL LOAD CALCULATIONS

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		168763VA

168763 / 208x1.73 = 469.0 AMPS

586.3 AMPS

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



SINGLE LINE DIAGRAM

SCALE: NONE

NOTE: THIS IS AN ELECTRICAL POWER DISTRIBUTION SYSTEM SINGLE LINE DIAGRAM. NOT ALL MECHANICAL EQUIPMENT CIRCUITS AND BRANCH CIRCUITS ARE SHOWN

NOTE: LOCATION OF MAIN BREAKERS AND FEEDERS INTO EQUIPMENT IS NOT INTENDED TO SHOW TOP OR BOTTOM MOUNTED MAIN BREAKER OR BOTTOM, TOP OR SIDE FEEDER ENTRY. THE SINGLE LINE DIAGRAM IS PURELY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY PROPER BREAKER POSITIONS AND FEEDER ENTRIES INTO EQUIPMENT AND PROVIDE AS REQUIRED.



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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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