

NOTES

1. REFER TO DWG. 1011116 FOR GENERAL NOTES.
2. INSTALL HALO GROUNDING AS SHOWN ON SHEET 5, 6, AND REFER TO SHEET 7 FOR GROUNDING DETAILS.
3. FABRICATE TO THE MIRROR IMAGE OF THIS DRAWING WHERE REQUIRED BY EON, SALES ORDER, OR NEW DRAWING RELEASE.
4. REFER TO SHEET NOTES ON SPECIFIC PAGES FOR ADDITIONAL INSTRUCTIONS.
5. REFER TO DRAWING #277034 FOR SPECIFIC SETUP INSTRUCTIONS.

PITTSYLVANIA COUNTY, VA

SECTION 1603

- 1.1 FLOOR LIVE LOAD = 200PSF
- 1.2 ROOF LIVE LOAD = 100PSF
- 1.3 ROOF SNOW LOAD WITH A GROUND SNOW LOAD OF 100PSF
 - 1) FLAT-ROOF SNOW LOAD = 100PSF
 - 2) SNOW EXPOSURE FACTOR = 1.0
 - 3) SNOW IMPORTANCE FACTOR = 1.2
 - 4) THERMAL FACTOR = 1.0
- 1.4 WIND LOAD
 - 1) BASIC WIND SPEED = 120MPH
 - 2) WIND IMPORTANCE FACTOR = 1.0 & OCCUPANCY CATEGORY = I
 - 3) WIND EXPOSURE = 'C'
 - 4) INTERNAL PRESSURE COEFFICIENT = +/- 0.55
 - 5) COMPONENTS AND CLADDING = N/A
- 1.5 EARTHQUAKE DESIGN DATA FOR CONCRETE SHELTERS
 - 1) SEISMIC IMPORTANCE FACTOR = 1.0 & OCCUPANCY CATEGORY = I
 - 2) MAPRED SPECTRAL RESPONSE ACCELERATIONS, SS = 1.85, S1 = 0.10
 - 3) SITE CLASS = 'D'
 - 4) SPECTRAL RESPONSE COEFFICIENTS SDS = 1.24, SD1 = 0.19
 - 5) SEISMIC DESIGN CATEGORY = D
 - 6) BASIC SEISMIC FORCE RESISTING SYSTEM = (BEARING WALL SYSTEM W/ INTERMEDIATE PRECAST CONCRETE SHEAR WALLS)
 - 7) DESIGN BASE SHEAR
 - a) 36' = 6.9 KIPS
 - b) 34' = 6.5 KIPS
 - c) 32' = 6.2 KIPS
 - d) 26' = 5.2 KIPS
 - e) 15' = 3.5 KIPS
 - 8) SEISMIC RESPONSE COEFFICIENT, CS = .248
 - 9) RESPONSE MODIFICATION FACTOR, R = 4.0
 - 10) ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

Code Classification	Ocgy	Const
SBC - SBCCI	S2	V (u)
NBC - BOCA	S2	VB
UBC - ICBO	S2	V (u)
IBC - INTERNATIONAL BUILDING CODE	S2	VB

VIRGINIA
 2009 VA Uniform Statewide Building Codes (USBC)
 2009 International Plumbing Code with VA Amendments
 2009 International Building Code with VA Amendments
 2009 International Mechanical Code with VA Amendments
 2009 International Fuel Gas Code with VA Amendments
 2009 International Energy Conservation Code
 2009 International Fire Code (IFC) with VA Amendments
 2008 National Electrical Code with VA Amendments

Allowable Stresses

uniform floor load (while on foundation)	200 psf
uniform roof live load	100 psf
wind load (including sliding and overturning moments)	120 mph
seismic	CAT "D"
estimated shipping weight	tbd
fire rating wall	2 hour
recommended foundation	272011
overall building area is 280 sqft.	
overall building height is 126 in.	

- Field Notes:**
- a. Allowable stresses calculated using the recommended foundation while anchored with VFP-designated hardware.
 - b. Uniform floor loading while being lifted is 125 psf.
 - c. Locate wedge anchor after building is located on foundation to correctly align with installed anchor plate. Refer to detail E, on sheet 8.

CONSTRUCTION

Index of Drawings

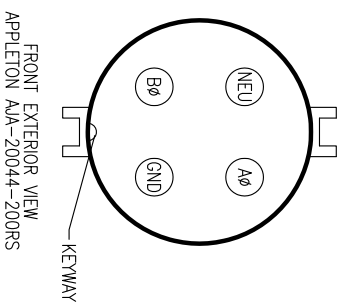
Drawing	Description	Revision	Rev. Status of Sheets
204396, sheet 1	Title, Allowable Stresses, Revision Status		
204396, sheet 2	One Line/Panel Schedule		
204396, sheet 3	Alarm Board / Alarm diagrams		
204396, sheet 4	Exterior Elevations		
204396, sheet 5	Interior Layout		
204396, sheet 5a	Interior Layout - HVAC Option		
204396, sheet 6	Reflected Ceiling		
204396, sheet 7	Grounding Details		
204396, sheet 8	* Construction Details		

1011116 General Notes
 277034 Setup Instructions
 272011 Foundation Drawing

* Indicates drawing containing work to be done in the field.

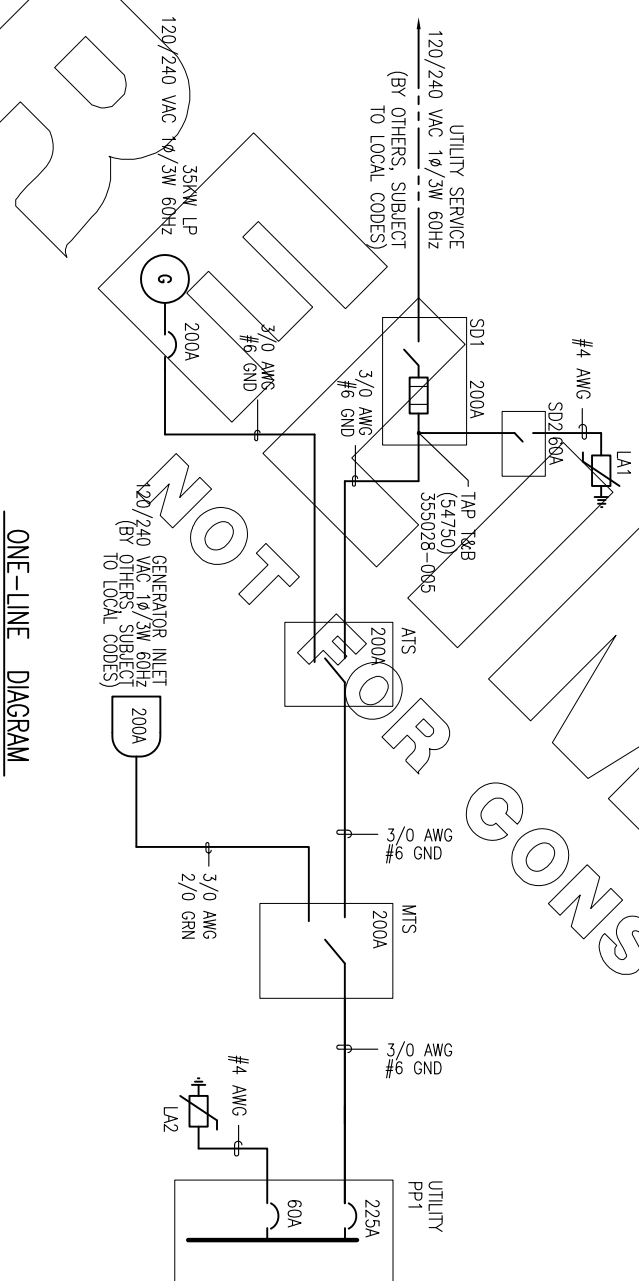
REV.	DATE	DESCRIPTION	BY	CHKD.	REV. STATUS OF SHEETS				
8	7	6	5	4	3	2	1	REVISION SHEET	
									HVAC OPTION REV. STATUS OF SHEETS

PP1 UTILITY 225A, 120/240VAC, 1Ø/3W, 60Hz, M.BKR

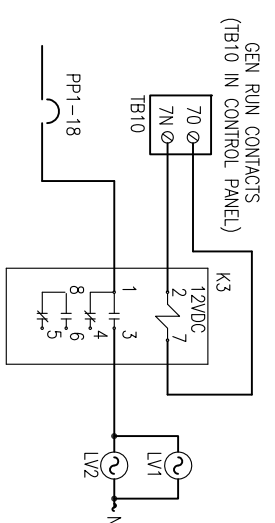


GENERATOR RECP1 WIRING

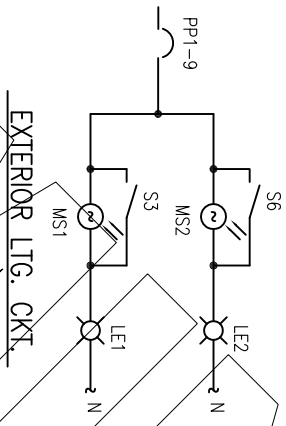
LOAD	VOLT AMPERES WIRE (WATTS)			BREAKER	TRIP	BREAKER WIRE VOLT AMPERES (WATTS)			LOAD				
	A	B	P			TRIP	A	B		P			
LIGHTNING ARRESTOR #2	60	60	4	2	60	1	2	15	2	12	120	120	POWER FAIL RELAY
ACH1	3840	3840	8	2	35	5	6	35	2	8	3840	3840	ACH2
LIGHTS, EXT	200		12	1	20	9	10	20	1	12	180	180	EXT. RECEPTACLE, WR
SMOKE DETECTOR			12	1	20	11	12	20	1	12	120	1260	EQUIP. RM RECEPTACLES
GEN. RM. RECEPTACLES	900		12	1	20	13	14	20	1	12	120	120	**WATER JACKET HEATER
SPARE			-	1	20	15	16	20	1	12	120	120	**BATT CHARGER
LIGHTS, INTERIOR	768		12	1	20	17	18	20	1	12	120	180	GEN. LOUVER
EQUIPMENT DROP #1			12	2	15	19	20	15	2	12	180	180	EQUIPMENT DROP #2
EQUIPMENT DROP #3			12	2	15	23	24	15	2	12	180	180	EQUIPMENT DROP #4
EQUIPMENT DROP #5	180	180	12	2	15	27	28	15	2	12	180	180	EQUIPMENT DROP #6
GEN. RM. HEATER	1650	1650	12	2	20	31	32	15	2	12	180	180	EQUIPMENT DROP #7
BLANK			-	-	-	35	36	-	-	-	-	-	BLANK
BLANK			-	-	-	37	38	-	-	-	-	-	BLANK
BLANK			-	-	-	39	40	-	-	-	-	-	BLANK
VOLT AMPERES PER PHASE				7958	6330			5100	6060	VOLT AMPERES PER PHASE			
TOTAL VOLT AMPERES				13058	12390			5100	6060	TOTAL VOLT AMPERES			
TOTAL AMPS PER PHASE				109	103			5100	6060	TOTAL AMPS PER PHASE			
TOTAL AMPS PER PHASE				136	136			5100	6060	TOTAL AMPS PER PHASE			
TOTAL AMPS PER PHASE				150	150			5100	6060	TOTAL AMPS PER PHASE			
				** GFI BY OTHERS AS REQUIRED									
				TOTAL AMPS PER PHASE									
				AMPS x125%									
				x 110% for MAIN									



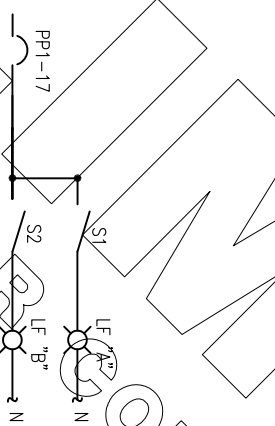
	BRIDGE CLIP TYP	PB
POWER FAIL ALARM 3/22 SOL	PFA - NO	BLK
	PFA - C	WHT
HYAC 1 FAIL 3/22 SOL	ACF1 - NO	BLK
	ACF1 - C	WHT
HVAC 2 FAIL 3/22 SOL	ACF2 - NO	BLK
	ACF2 - C	WHT
LOW TEMP ALARM 3/22 SOL	LTA - NO	BLK
	LTA - C	WHT
HIGH TEMP ALARM 3/22 SOL	HTA - NO	BLK
	HTA - C	WHT
DOOR ALARM #1 3/22 SOL	DA1 - NO	BLK
	DA1 - C	WHT
SMOKE DETECTOR #1 3/22 SOL	D1 - NO	BLK
	D1 - C	WHT
LIGHTNING ARRESTOR #1 3/22 SOL	LA1 - NO	BLK
	LA1 - C	WHT
LIGHTNING ARRESTOR #2 3/22 SOL	LA2 - NO	BLK
	LA2 - C	WHT
DOOR ALARM #2 3/22 SOL	DA2 - NO	BLK
	DA2 - C	WHT
SMOKE DETECTOR #2 3/22 SOL	D2 - NO	BLK
	D2 - C	WHT
HIGH HUMIDITY ALARM 3/22 SOL	HHA - NO	BLK
	HHA - C	WHT
GEN. RUN 3/22 SOL	GENR - NO	BLK
	GENR - C	WHT
GEN. FAIL 3/22 SOL	GNF - NO	BLK
	GNF - C	WHT
GEN. NOT IN AUTO 3/22 SOL	NIA - NO	BLK
	NIA - C	WHT
ATS. NORMAL 3/22 SOL	ATSN - NO	BLK
	ATSN - C	WHT
ATS. EMERGENCY 3/22 SOL	ATSE - NO	BLK
	ATSE - C	WHT
PROPANE ALARM BY OTHERS	PRO - NO	BLK
	PRO - C	WHT
TOWER LIGHT BY OTHERS	TWRLT - NO	BLK
	TWRLT - C	WHT



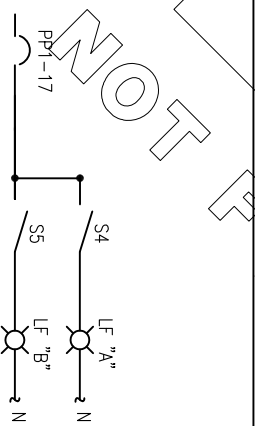
GEN. RM. LOUVER MOTOR WIRING



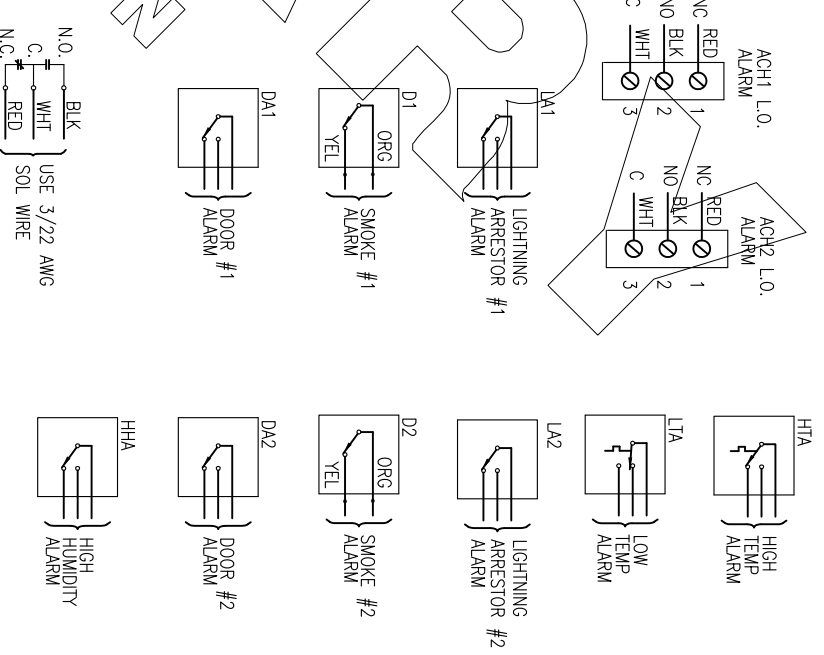
EXTERIOR LTG. CKT.



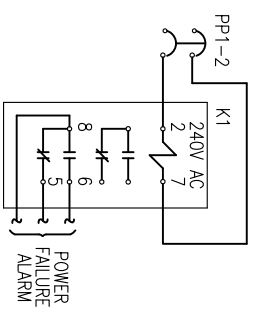
INTERIOR LTG. CKT. - EQUIPMENT ROOM



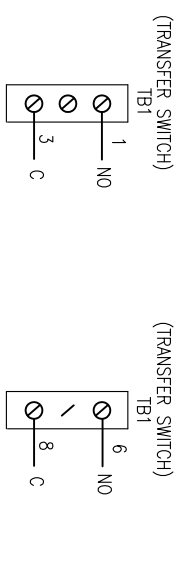
INTERIOR LTG. CKT. - GENERATOR ROOM



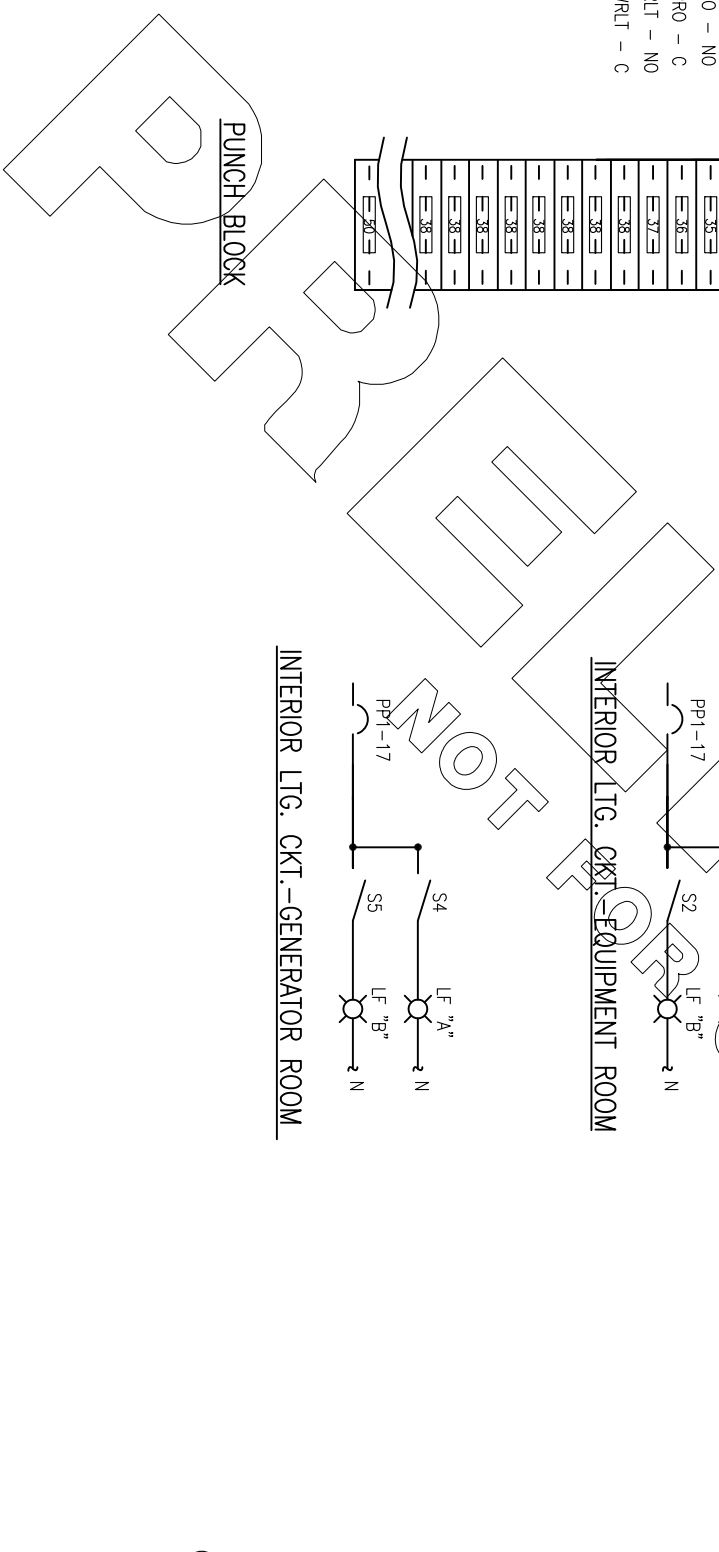
ALARM WIRE COLOR CODE

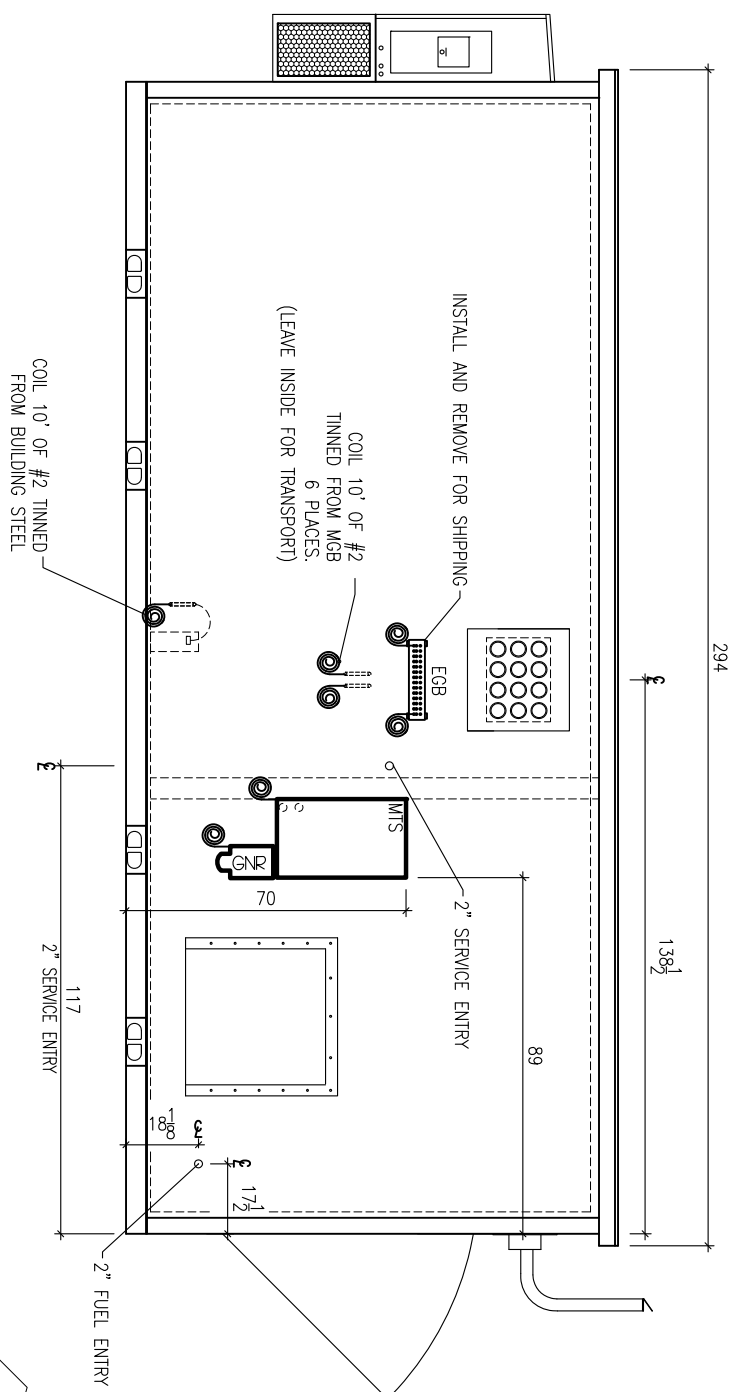


PFA WIRING DIAGRAM

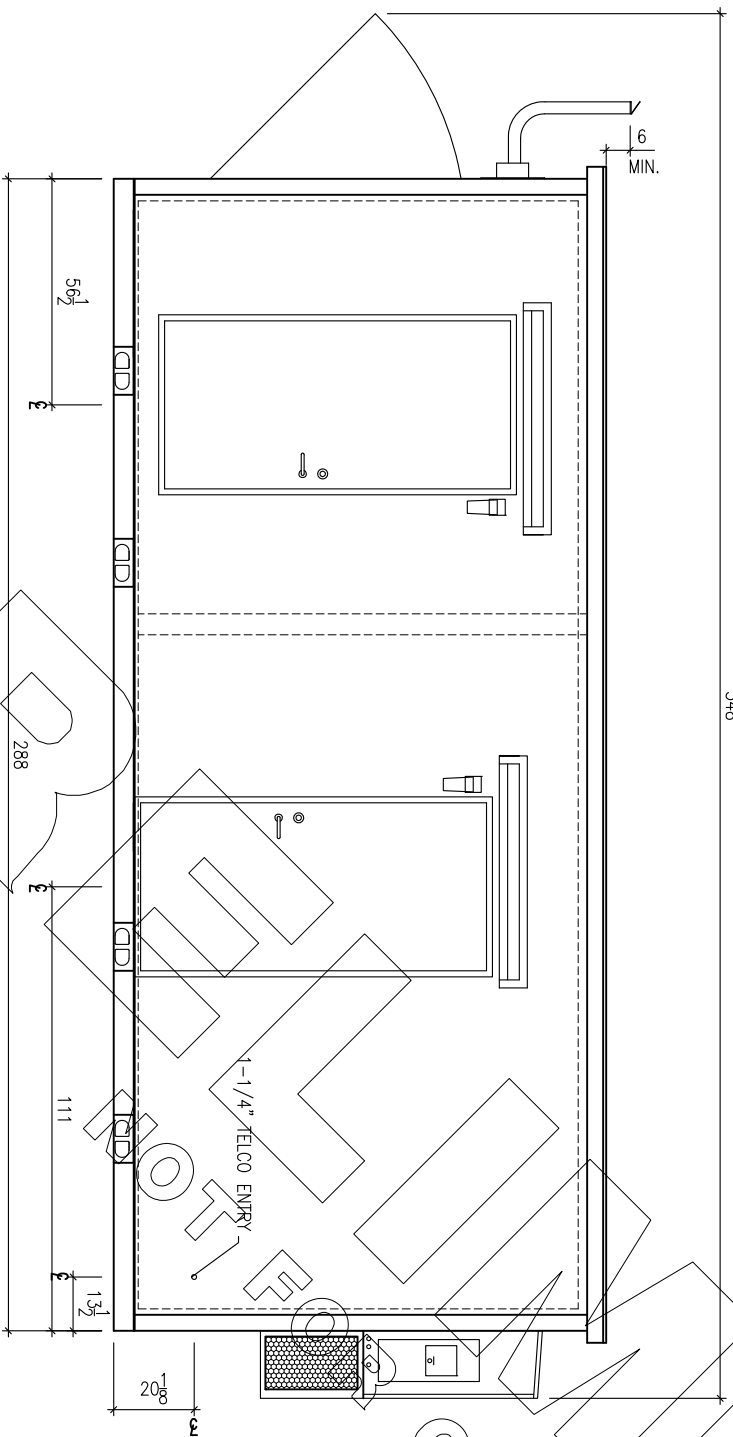


ALARM WIRING DIAGRAM

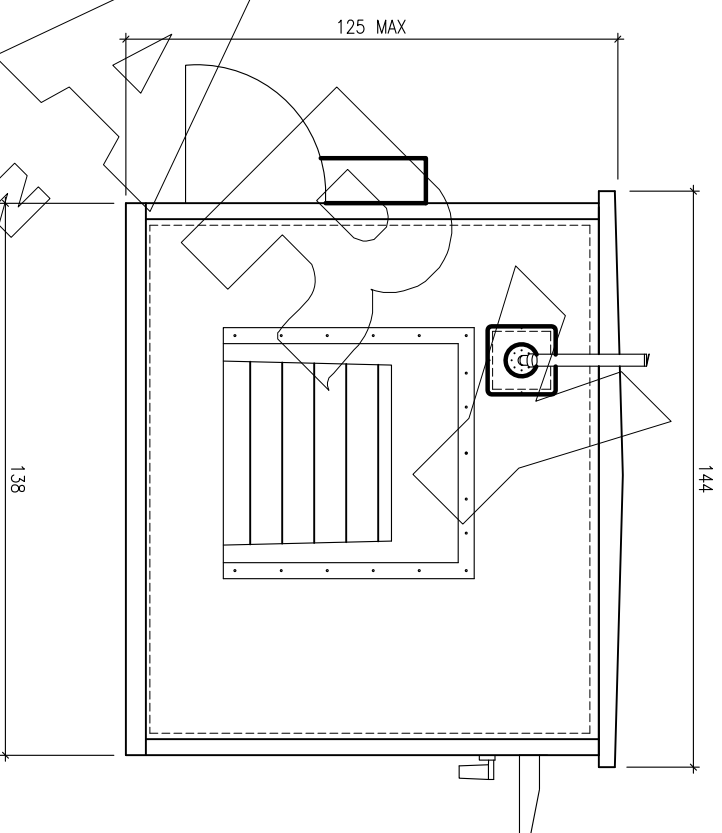




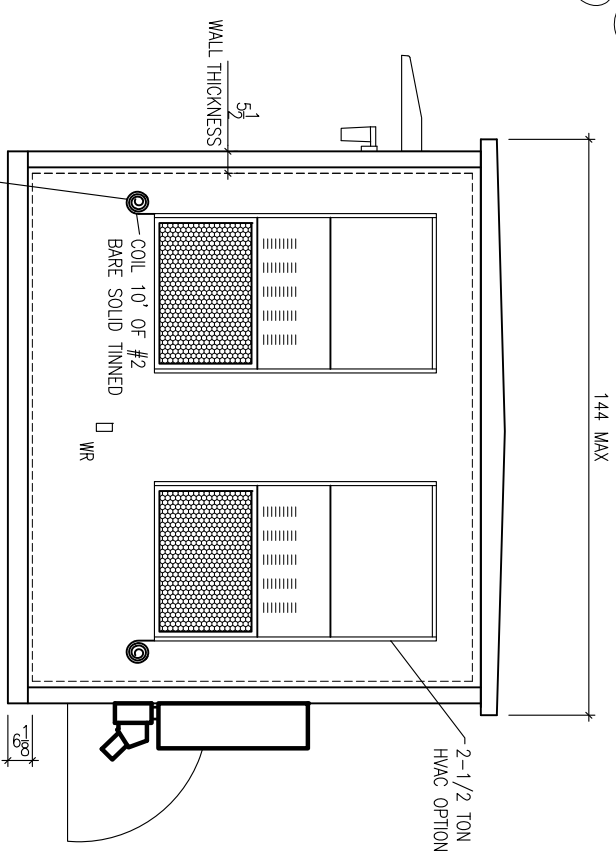
REAR WALL ELEVATION C



FRONT WALL ELEVATION A



LEFT WALL ELEVATION B



RIGHT WALL ELEVATION D

EXTERIOR ELEVATIONS

1. ELECTRICAL DIMENSIONS SHOWN ARE APPROXIMATE.
2. THE MEASUREMENTS MAY BE SLIGHTLY DIFFERENT TO CORRECTLY INSTALLED RIGID NIPPLES.

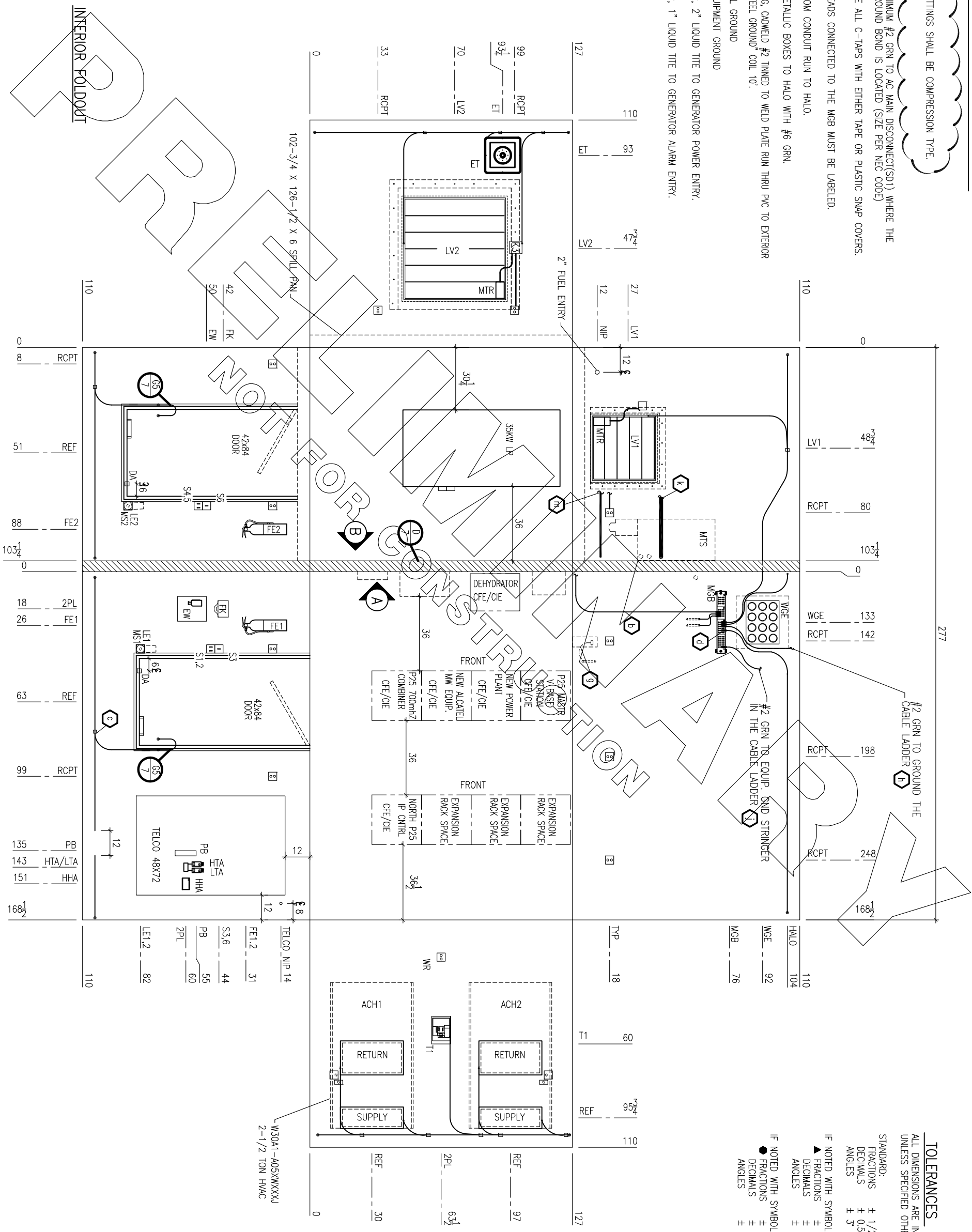
NOTES

- a. ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE.
- b. CONNECT A MINIMUM #2 GRN TO AC MAIN DISCONNECT(SD1) WHERE THE NEUTRAL TO GROUND BOND IS LOCATED (SIZE PER NEC CODE)
- c. COVER/INSULATE ALL C-TAPS WITH EITHER TAPE OR PLASTIC SNAP COVERS.
- d. ALL GROUND LEADS CONNECTED TO THE MGB MUST BE LABELED.
- e. #6 GROUND FROM CONDUIT RUN TO HALO.
- f. GROUND ALL METALLIC BOXES TO HALO WITH #6 GRN.
- g. BEHIND SHEATHING, CABLED #2 TINNED TO WELD PLATE RUN THRU PVC TO EXTERIOR TAG BUILDING STEEL GROUND COIL TO.
- h. #2 GRN TO C/L GROUND
- i. #2 TO C/L EQUIPMENT GROUND
- j. #2 TO C/L EQUIPMENT GROUND
- k. 90° CONNECTOR, 2" LIQUID TITE TO GENERATOR POWER ENTRY.
- l. 90° CONNECTOR, 1" LIQUID TITE TO GENERATOR ALARM ENTRY.

TOLERANCES

ALL DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE

- STANDARD:
- FRACTIONS ± 1/2"
 - DECIMALS ± 0.5"
 - ANGLES ± 3°
- IF NOTED WITH SYMBOL:
- ▲ FRACTIONS ± 1/4"
 - ▲ DECIMALS ± 0.25"
 - ▲ ANGLES ± 1°
- IF NOTED WITH SYMBOL:
- FRACTIONS ± 1"
 - DECIMALS ± 1.0"
 - ANGLES ± 5°

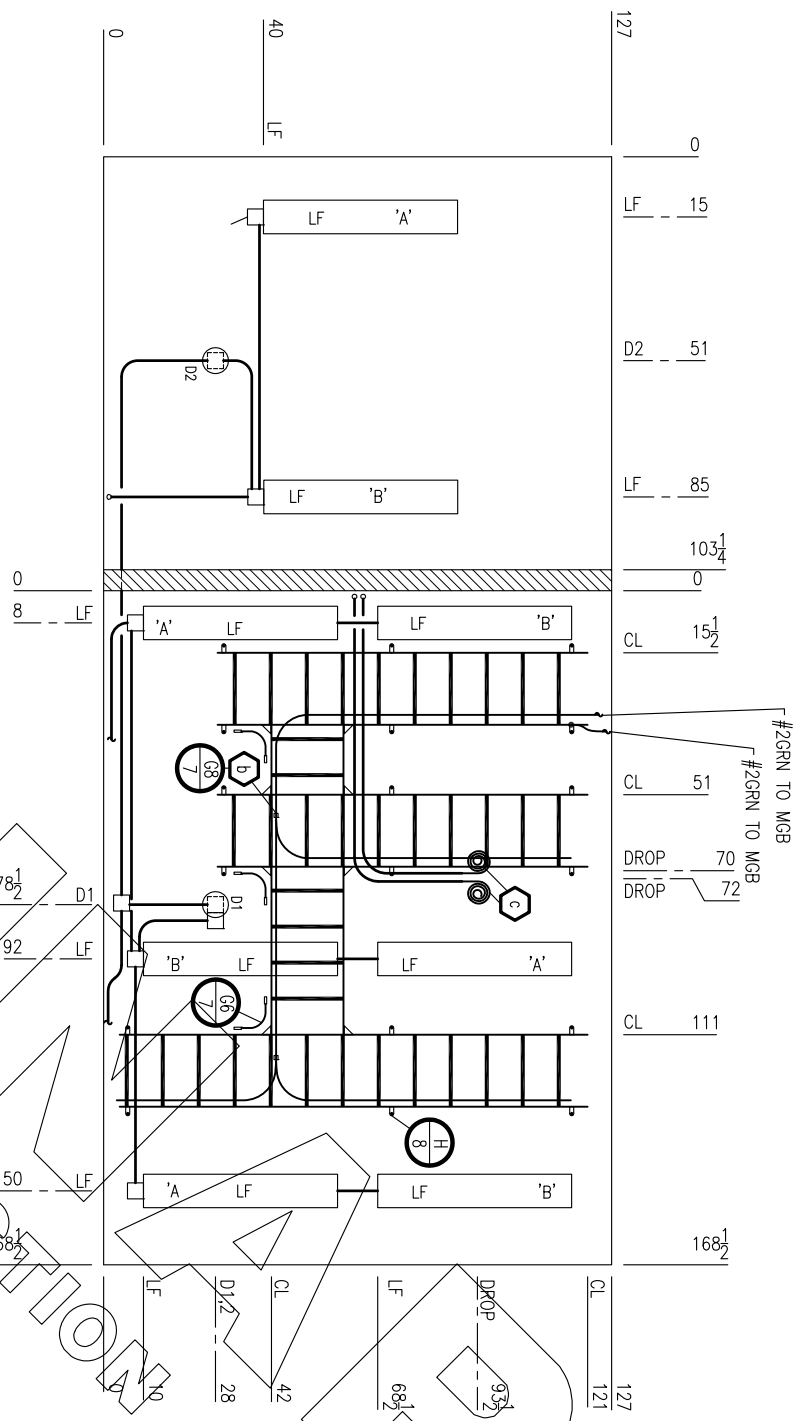


INTERIOR FOLDOUT

TOLERANCES

ALL DIMENSIONS ARE IN INCHES
UNLESS SPECIFIED OTHERWISE

- STANDARD:
FRACTIONS ± 1/2"
DECIMALS ± 0.5"
ANGLES ± 3°
- IF NOTED WITH SYMBOL:
▲ FRACTIONS ± 1/4"
DECIMALS ± 0.25"
ANGLES ± 1°
- IF NOTED WITH SYMBOL:
● FRACTIONS ± 1"
DECIMALS ± 1.0"
ANGLES ± 5°

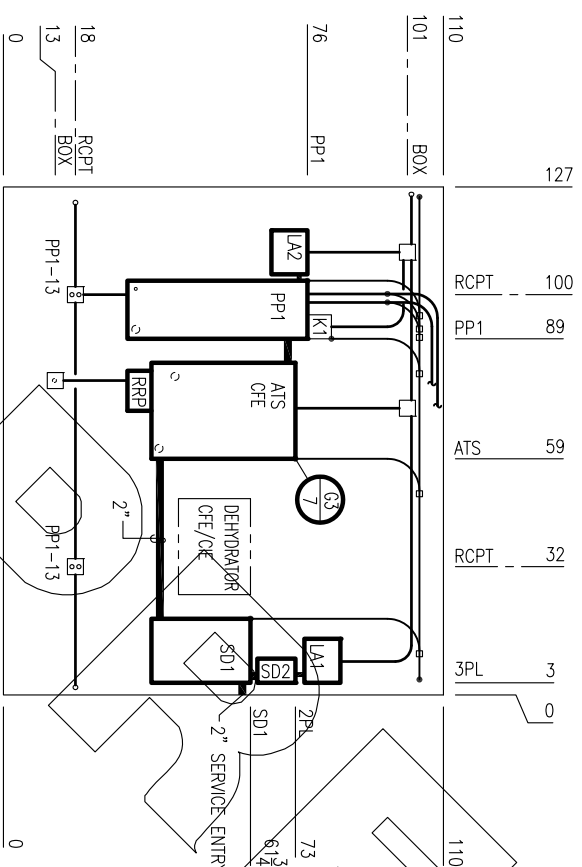


REFLECTED CEILING

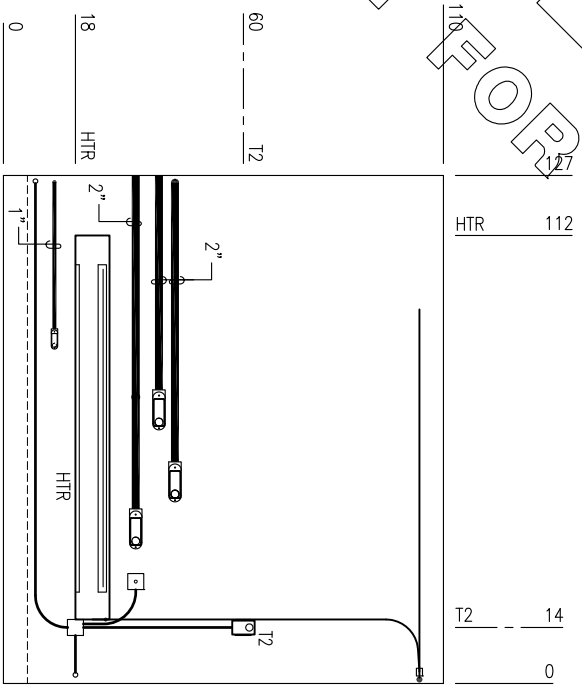
a. ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE.

b. COVER/INSULATE ALL C-TAPS WITH EITHER TAPE OR PLASTIC SNAP COVERS.

c. COIL & TAG 10' OF (2) 3/4" FLEX WITH 4' OF WIRE PAST END. ONE DROP SHALL CONTAIN 4 CKTS. (PP1-19, 20, 23, & 24). SECOND DROP SHALL CONTAIN 3 CKTS (PP1-27, 28, AND 32).



A INTERIOR PARTITION WALL "A"

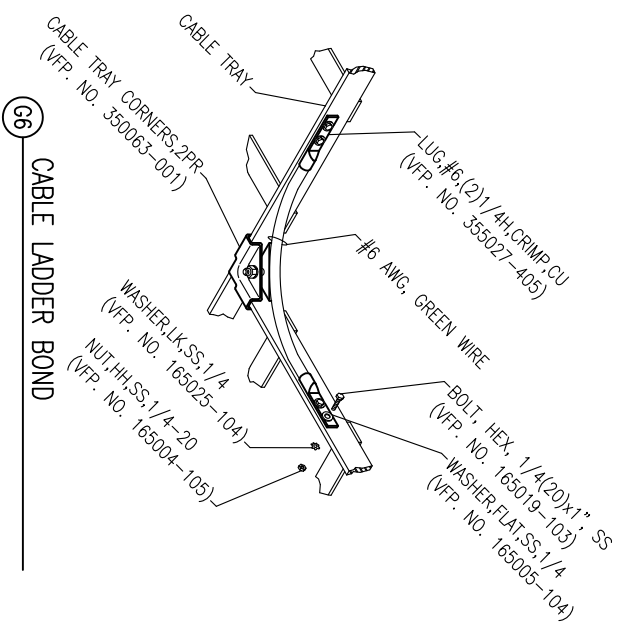


B INTERIOR PARTITION WALL "B"

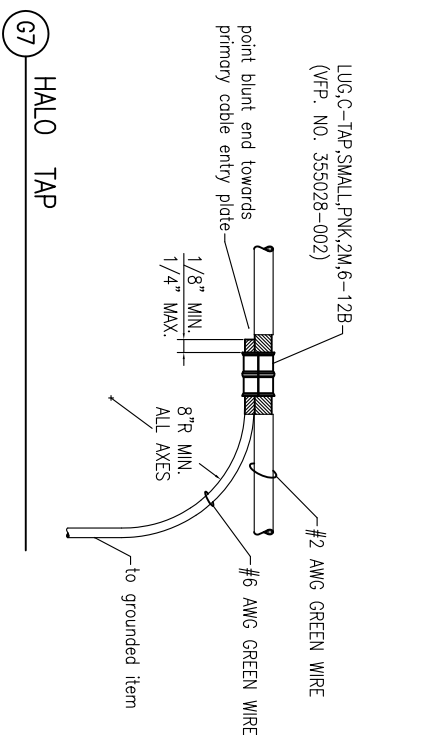
NOT FOR CONSTRUCTION

LEGEND

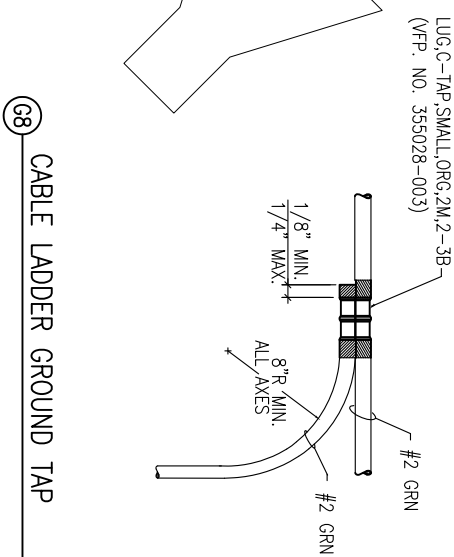
- ACH1 - AIR CONDITIONER/HEATER #1
- ACH2 - AIR CONDITIONER/HEATER #2
- ATS - AUTOMATIC TRANSFER SWITCH
- CFE - CUSTOMER FURNISHED EQUIPMENT
- CFE - CUSTOMER INSTALLED EQUIPMENT
- CKT - CIRCUIT
- CL - CABLE LADDER
- CLH - CABLE LADDER HANGER
- D1 - DETECTOR, SMOKE
- DA1.2 - DOOR ALARM
- ET - EXHAUST THIMBLE
- EW - EYE WASH
- EXT - EXTERIOR
- FE1.2 - FIRE EXTINGUISHER
- FK - FIRST AID KIT
- HIA - HIGH TEMPERATURE ALARM (SET @ 85°)
- HIR - GEN. ROOM BASEBOARD HEATER
- INT - INTERIOR
- K1 - RELAY (POWER FAIL)
- LA1.2 - LIGHTNING ARRESTOR
- LET1.2 - LIGHT EXTERIOR
- LF - LIGHT FLUORESCENT
- LIA - LOW TEMP ALARM (SET @ 50°)
- LVI - GENERATOR EXHAUST LOUVER
- LW2 - GENERATOR MOTORIZED INTAKE LOUVER
- MGB - MASTER GROUND BAR
- MS1.2 - MOTION SENSOR
- MTS - MANUAL TRANSFER SWITCH
- NIP - NIPPLE
- PFA - POWER FAIL ALARM
- PL - PLACES
- PP1 - POWER PANEL #1 (UTILITY)
- REF - REFERENCE
- RCPT - RECEPTACLE
- S1.4 - SWITCH #1 (INTERIOR 'A')
- S2.5 - SWITCH #2 (INTERIOR 'B')
- S3.6 - SWITCH #3 (EXTERIOR)
- SD1 - SAFETY SWITCH (MAN)
- SD2 - SAFETY SWITCH (SURGE ARRESTOR)
- T1 - THERMOSTAT #1 (LEAD/LAG) (SET@72°)
- T2 - THERMOSTAT GEN. RM. HEATER
- TELCO - TELCO BOARD
- TRP - TYPICAL
- WGE - WAVE GUIDE ENTRY
- WR - RCPT., WEATHER RESISTANT
- WR - RCPT., DUPLEX
- WR - RCPT., DUPLEX, 4 X 4
- WR - RCPT., DUPLEX, WR
- WR - JUNCTION BOX, 2 X 4
- WR - JUNCTION BOX, 2 X 4
- WR - REF PART LIST ITEM NUMBER
- WR - REF DWG NOTE (SEE SHEET 1)
- WR - DELTA REVISION



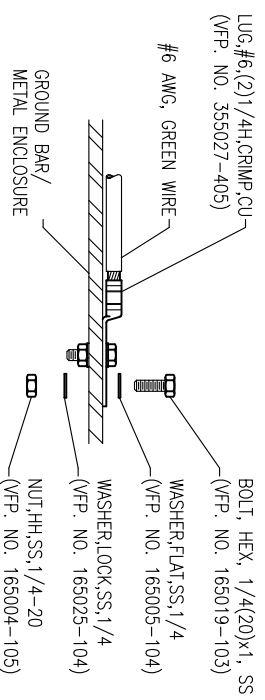
G6 CABLE LADDER BOND



G7 HALO TAP



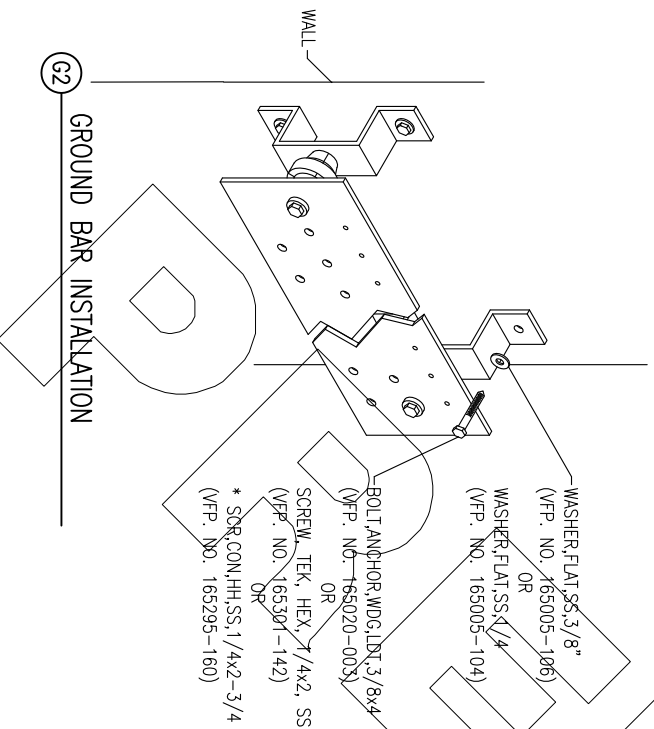
G8 CABLE LADDER GROUND TAP



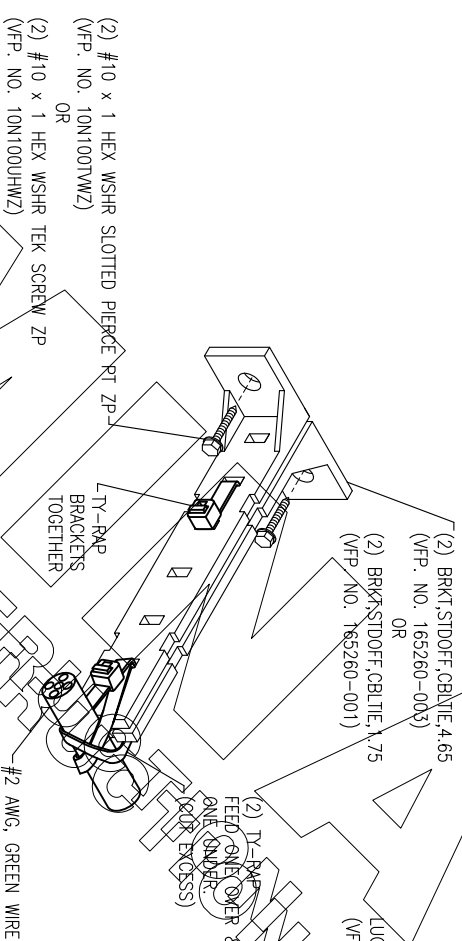
Installation Notes

- select bolt length to provide a minimum of two exposed threads.
- burnish mounting surface to remove point in the area of lug contact.
- apply anti-oxidant compound to mating surface of lug and wipe clean excess compound.
- use solid copper wire and mechanical 2-hole lug for all exterior grounding.
- stainless steel hardware only.

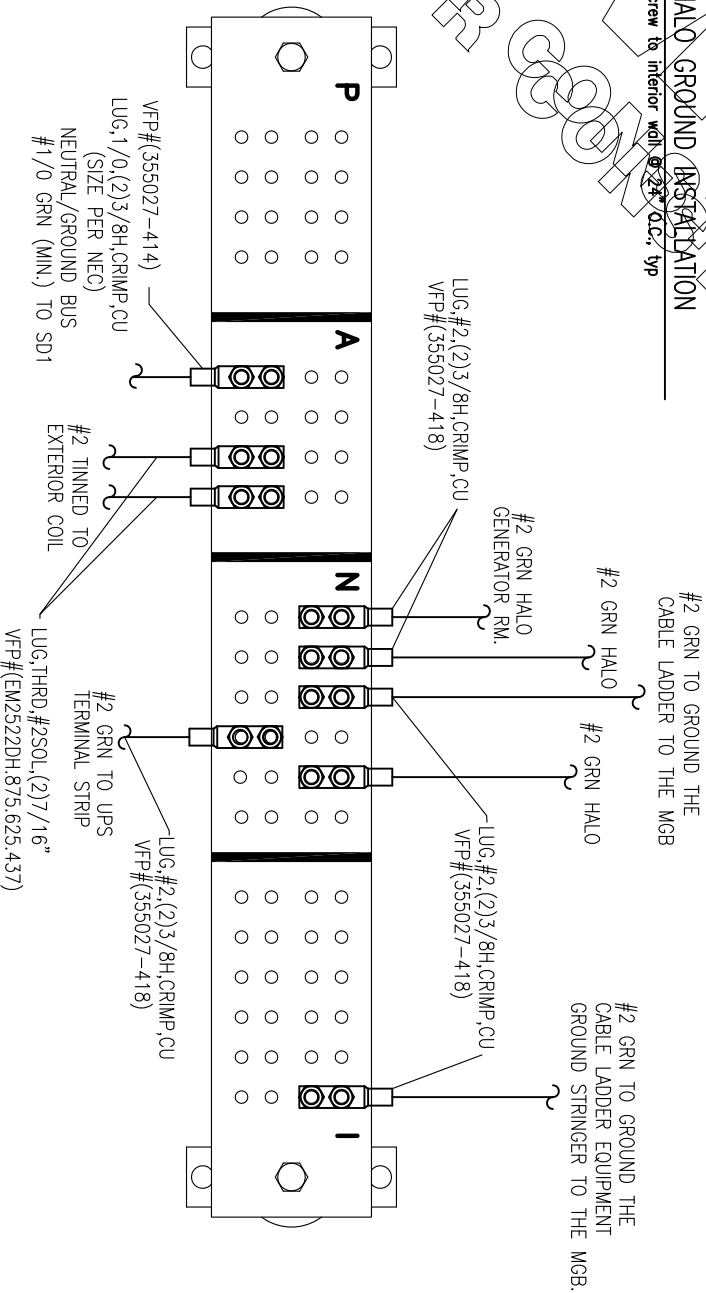
G9 GROUNDING CONNECTION



G10 GROUND BAR INSTALLATION



G11 DOOR BONDING STRAP



G12 GROUND BAR DETAIL (MGB)

Modification Notes

- Section off ground plate with a black indelible marker or black tape. (Make sure there are a minimum of 4 rows per section)
- Label all sections as shown with 5/8" or larger letters.
- Mount with brackets and insulators at location shown on layout.
- Mirror this detail for mirrored shelters.
- Stainless Steel Hardware Only

NOT FOR CONSTRUCTION

Finishing Notes

- a. Refer to Fastening Schedule Drawing #101562.
- b. Refer to manufacturing work order for exterior and interior finish of building. Refer to detail C this page for floor covering.
- c. Refer to interior layout sheets before routing interior sheathing for miscellaneous openings.

