

- 1B SCOPE OF WORK
- THIS PROJECT MODIFICATION OF EXISTING CONSISTS OF:
- INSTALLATION OF (1) (N) ALPHA PN-4 POWERNODE SYSTEM ENCLOSURE
  - INSTALLATION OF (12) (N) 12V ALPHA 210FTX BATTERIES
  - INSTALLATION OF (1) (N) PRECAST CONCRETE PAD
  - REMOVAL & REPLACEMENT OF (E) POWER SUPPLY
  - ALL ASSOCIATED ELECTRIC WIRES AND CONDUITS TO CONNECT POWERNODE CABINET TO EXISTING ALPHA CABINET

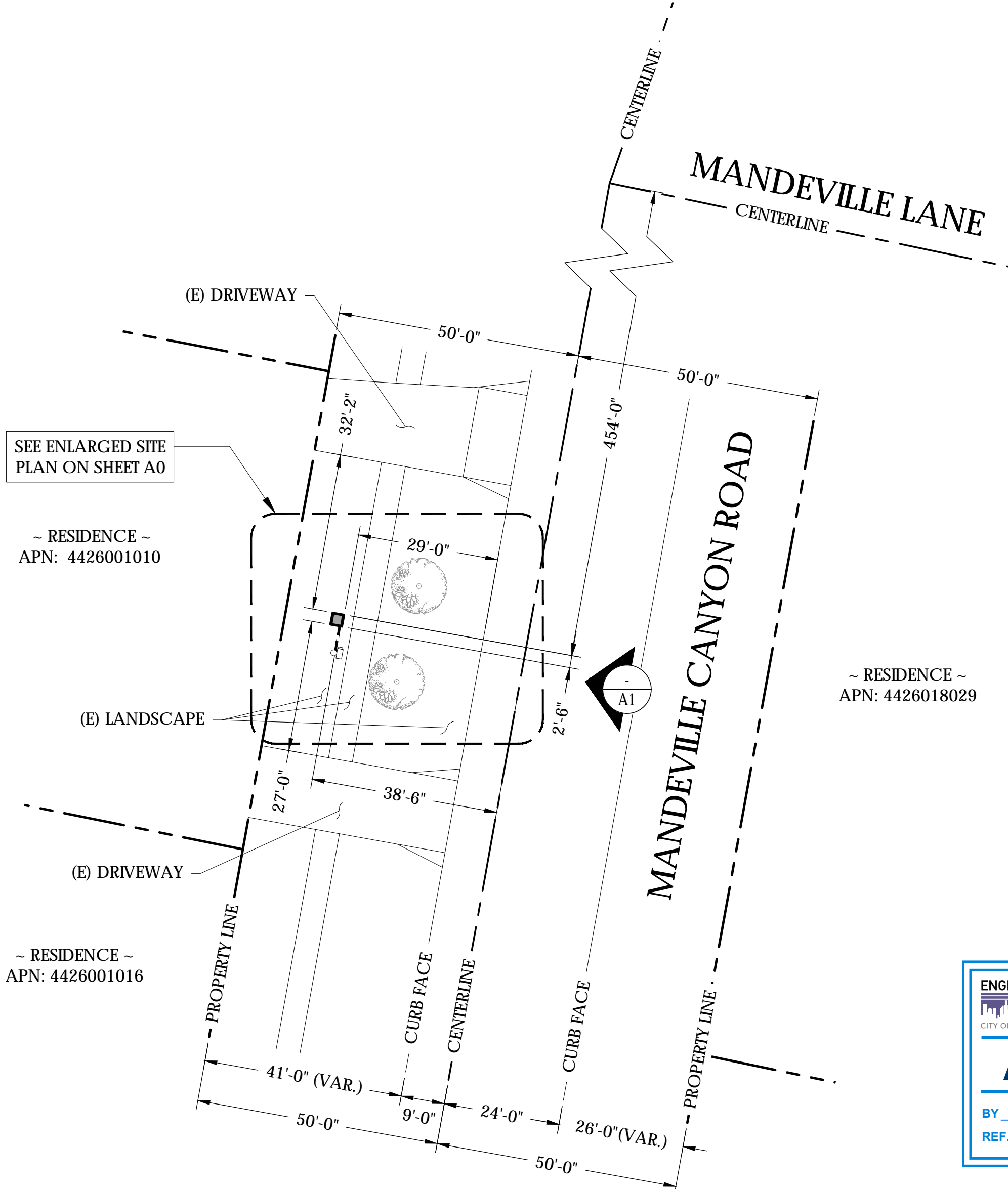
LANDSCAPING NOTE

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CABINET FOUNDATION

CONCRETE PADS SHALL BE A COLOR THAT IS CONSISTENT WITH ADJACENT SURROUNDING SIDEWALKS. CONCRETE PADS SHALL JOIN TO THE NEAREST SCORELINE OF THE EXISTING CONCRETE PAVEMENT. IF THERE IS NO EXISTING SIDEWALK, CONCRETE PADS SHALL BE AN EARTH-TONE COLOR THAT IS CONSISTENT WITH THE EXISTING SURROUNDING EARTH

ONLY THOSE EXISTING SUBSTRUCTURES WITHIN 10-FT OF THE PROPOSED CONDUIT ARE SHOWN



STREET LIGHTING NOTES TO THE CONTRACTOR

The contractor shall protect and maintain all street lighting facilities existing in the work area. Should any damage to the street lighting system occur, the contractor shall immediately notify the Bureau of Street Lighting, Field Operations Division at (323) 913-4744. After 4:30 PM Monday through Thursday, or 3:30 PM on Friday, contact the Electric Trouble Board of the Department of Water and Power at (800) 821-5278 from the (215) area code, or (800) 821-5279 from the (818) area code.

The contractor shall arrange for the immediate repair and restoration of the damaged street lighting system at no cost to the City. A licensed electrical contractor is required to make all repairs necessary to the street lighting facilities.

The contractor shall install all proposed facilities 12 inches clear of the street lighting foundations, pullboxes, and conduits, except where otherwise stated herein. Two business days prior to working near the street lighting circuit the contractor shall arrange for the presence of a City of Los Angeles, Public Works Inspector, (213) 485-5080 or (818) 374-1188, to verify all clearance requirements are met. Where a conflict exists between the street lighting facilities and the proposed improvements, approval for relocation of the street lighting facilities may be obtained by contacting the Street Lighting Engineer at (213) 847-1459.

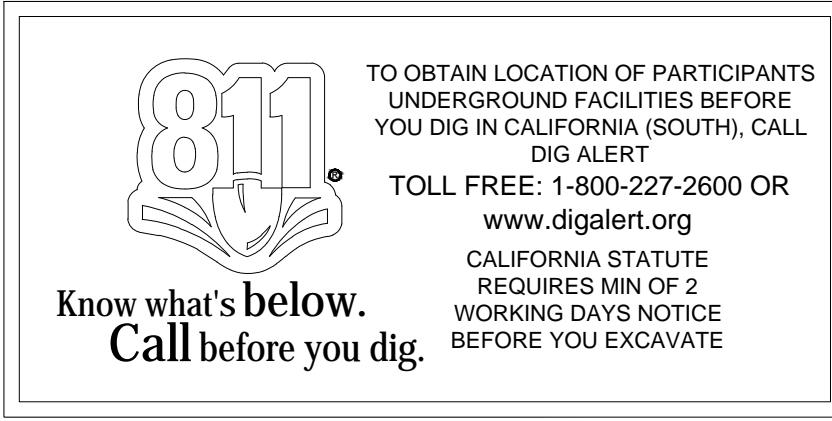
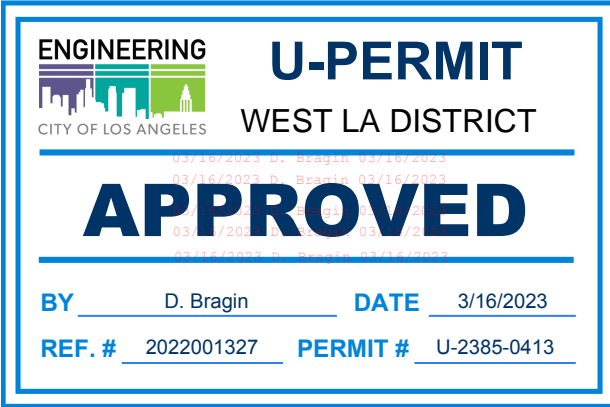
The contractor shall proceed with extreme caution when working near the high voltage series circuit. Unauthorized work on the series circuit can result in severe injury or death. The contractor shall notify the Bureau of Street Lighting, Field Operations Division (323) 913-4744 two business days prior to working near the street lighting circuit.

This plan has been reviewed by the Bureau of Street Lighting and approved for the encroachment of new utilities within the Bureau of Street Lighting easement as specified herein and within this plan:

# of vault/cabinet locations: \_\_\_\_\_ # of conduit locations: \_\_\_\_\_

Linear footage of conduit: \_\_\_\_\_ If \_\_\_\_\_

Approved: \_\_\_\_\_ for \_\_\_\_\_ Executive Director, Bureau of Street Lighting Date \_\_\_\_\_



SITE ID: AF199W\_AF199A

SITE ADDRESS:  
1647 N MANDEVILLE CANYON RD,  
LOS ANGELES, CA 90049

SITE INFORMATION	
SITE ADDRESS:	1647 N MANDEVILLE CANYON RD LOS ANGELES, CA 90049
LATITUDE/LONGITUDE (NAD 83):	34.06271453, -118.4934128
JURISDICTION:	CITY OF LOS ANGELES
POWER PROVIDER:	CLA
STRUCTURE TYPE:	UTILITY POLE
OUTPUT VOLTAGE SPEC.:	90
INPUT VOLTAGE SPEC.:	120
AMP DRAW:	4

DRAWING INDEX	
SHEET	DESCRIPTION
T1	TITLE SHEET AND SITE PLAN
A0	ENLARGED SITE PLANS
A1	ELEVATIONS
D1	DETAILS
TC1	TRAFFIC CONTROL

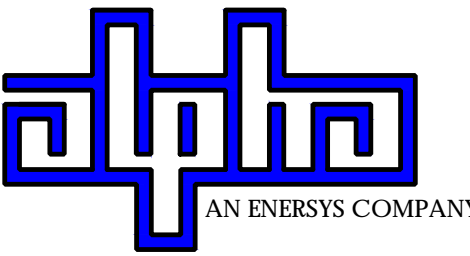
PROJECT TEAM	
OWNER:	CHARTER COMMUNICATIONS 9260 TOPANGA CANYON BLVD CHATSWORTH, CA 91311
ENGINEER/ARCHITECT:	J5 INFRASTRUCTURE PARTNERS JOSE M. MIRANDA ARCHITECT/ENGINEER CONTACT PH: (949) 247-7767 EMAIL: jmiranda@j5ip.com 23 MAUCHLY, SUITE 110 IRVINE, CALIFORNIA, 92618
APPLICANT:	ALPHA TECHNOLOGIES, INC. RICHARD A. SEIFF SERVICE OPERATIONS MANAGER ENERGY SYSTEMS AMERICAS PH: (331) 276-0232 EMAIL: rich.seiff@enersys.com

CODE COMPLIANCE	
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	
1. CALIFORNIA BUILDING STANDARDS CODE: 2019 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2020. PART 1 - CALIFORNIA ADMINISTRATIVE CODE PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE PART 6 - CALIFORNIA ENERGY CODE PART 7 - VACANT	PART 8 - CALIFORNIA HISTORICAL BUILDING CODE PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN) PART 12 - CALIFORNIA REFERENCED STANDARDS CODE 2. ANSI/ITIA-222 (REV H) 3. 2018 NFPA 101, LIFE SAFETY CODE 4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE 5. 2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

GENERAL CONTRACTOR NOTES	
DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)	
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BEAR THE RESPONSIBILITY FOR THE SAME.	



9260 TOPANGA CANYON BLVD  
CHATSWORTH CA, 91311



3767 ALPHA WAY  
BELLINGHAM, WA 98226



23 MAUCHLY, STE 110  
IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-XXXXX

### ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	10/26/21	90% CD	GP
B	10/29/21	90% CD	MZ
0	12/09/21	100% CD	TT
1	03/25/22	LA CITY REQ. UPDATE	MZ
2	08/08/22	PCC #1	JW
VVD	3/16/23	PER CITY COMMENTS	CH

SEAL

SITE INFORMATION

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1647 N MANDEVILLE  
CANYON RD,  
LOS ANGELES, CA 90049

SHEET TITLE:

TITLE SHEET

T1

SITE PLAN

24"x36" SCALE: 1" = 20'-0"  
11"x17" SCALE: 1" = 40'-0"  
20' 10' 0' 20'  
NORTH



**LANDSCAPING NOTE**

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PROPOSED ENLARGED SITE PLAN

24"x36" SCALE: 1/4" = 1'-0"  
11"x17" SCALE: 1/8" = 1'-0"  
4' 3' 2' 1' 0" 4' NORTH 1

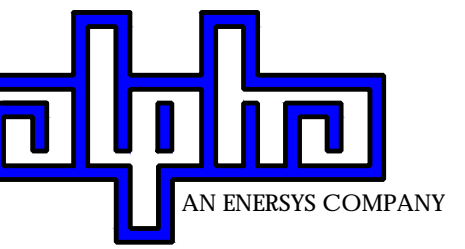


24"x36" SCALE: 1/4" = 1'-0"  
11"x17" SCALE: 1/8" = 1'-0"  
4' 3' 2' 1' 0" 4' NORTH 2

EXISTING ENLARGED SITE PLAN



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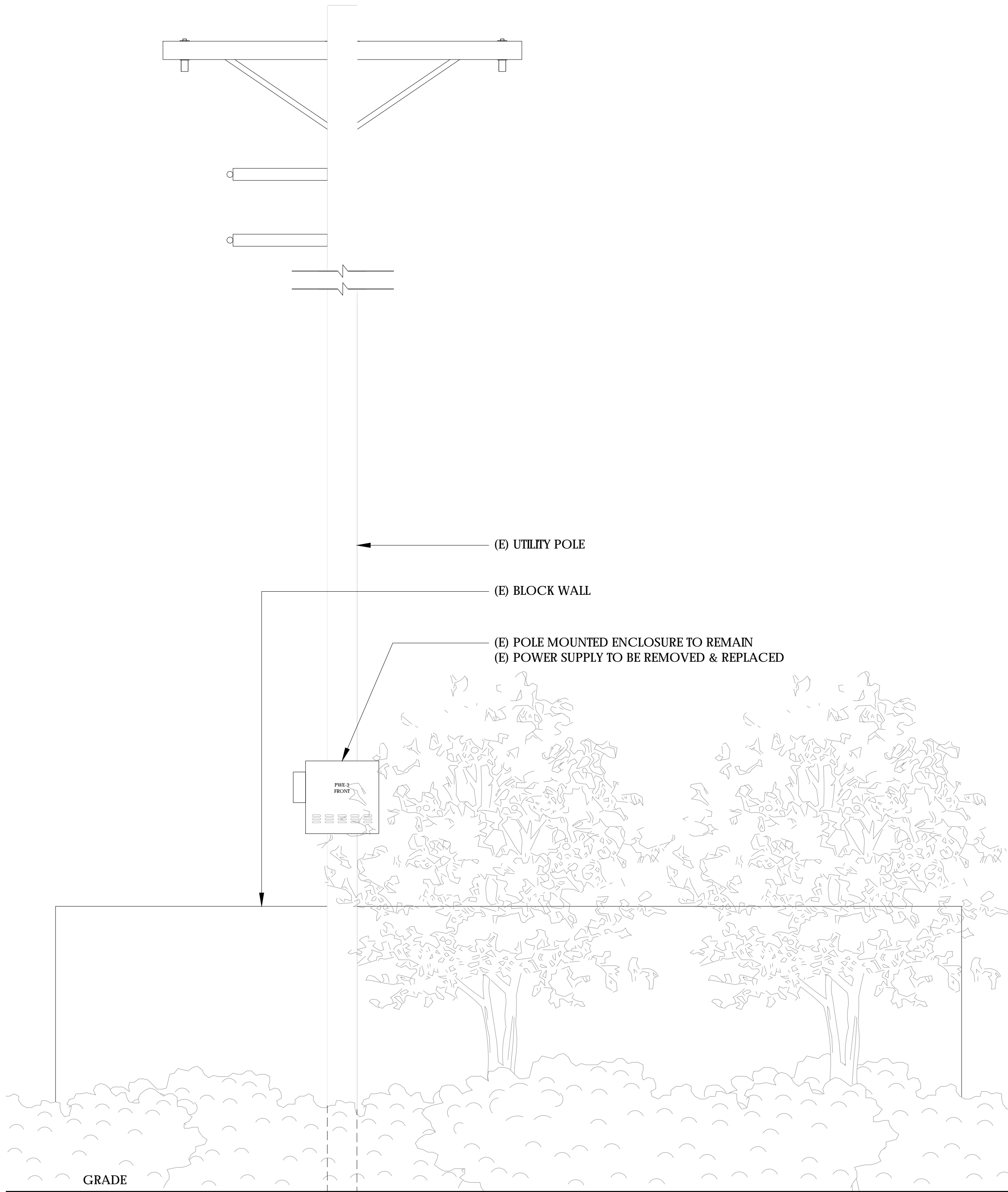
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SHEET TITLE:

ENLARGED  
SITE PLANS

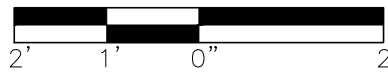
A0



MANDEVILLE CANYON ROAD

EXISTING ELEVATION

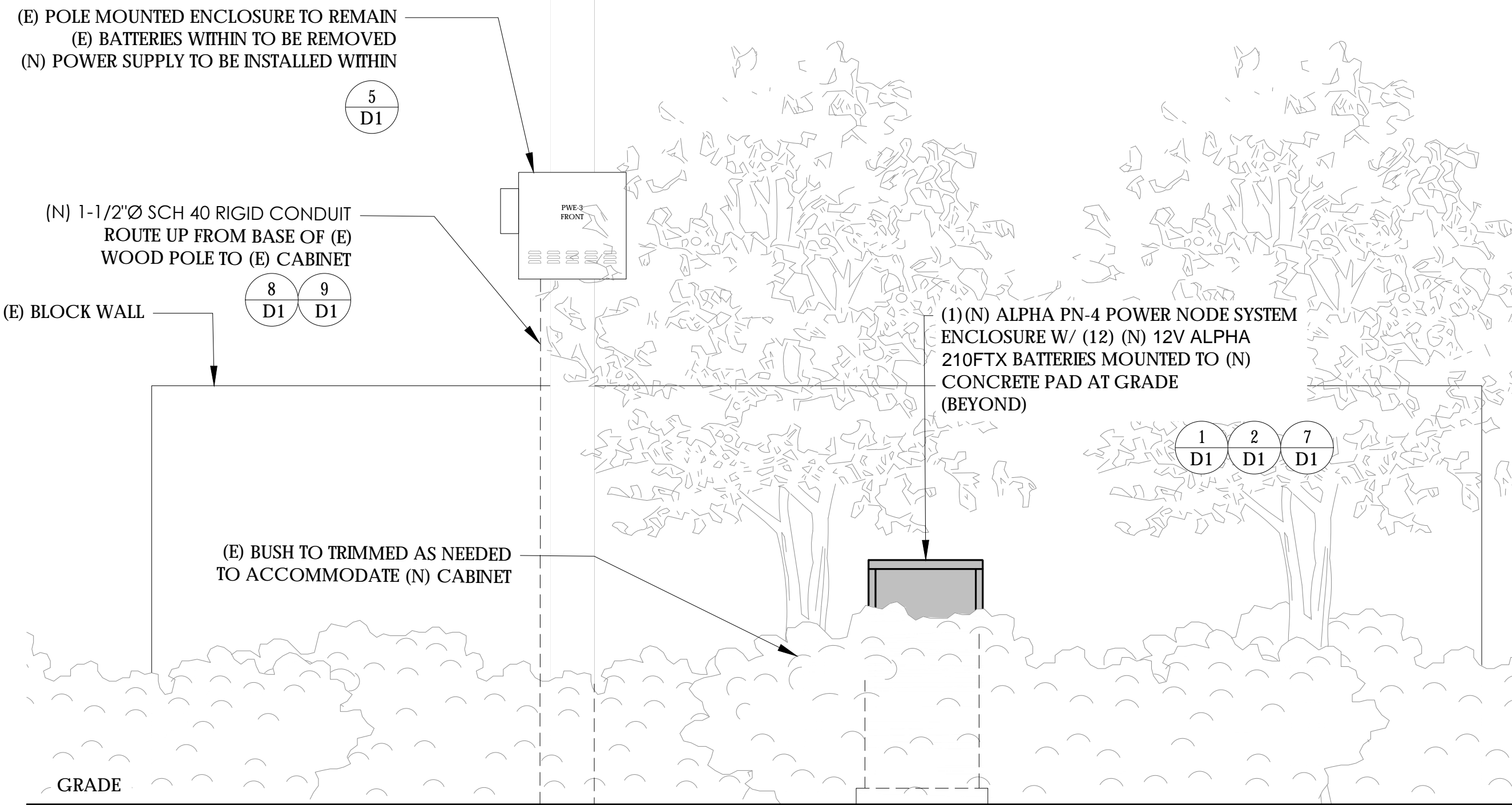
24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"



2

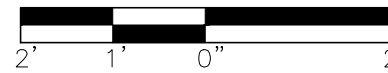
CONDUIT ROUTING NOTE:  
1. GC TO ROUTE (N) 1-1/2" RIGID U/G CONDUIT FROM (N) CABINET TO (E) MAIN CABINET FOR (N) BATTERY & INTERFACE ASSOCIATED CABLING. SEE TRENCHING DETAIL ON SHEET D1.

NOTES:  
1. CONTRACTOR TO COMPLY WITH ALL APPLICABLE/REQUIRED INSPECTIONS PER LOCAL JX GUIDELINES.  
2. CONTRACTOR SHALL BE AWARE OF (E) PEDESTRIAN AND VEHICLE ACCESS. CONTRACTOR SHALL NOT BLOCK WALKWAYS, DRIVEWAYS AND/OR OTHER FORMS OF ACCESS. CONTRACTOR SHALL REACH OUT TO ENGINEER IF REVISIONS TO DESIGN HEREON ARE REQUIRED.



MANDEVILLE CANYON ROAD

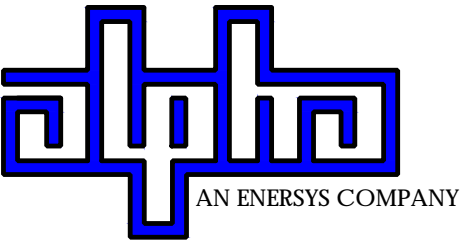
24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"



1



9260 TOPANGA CANYON BLVD  
CHATSORTH CA, 91311



3767 ALPHA WAY  
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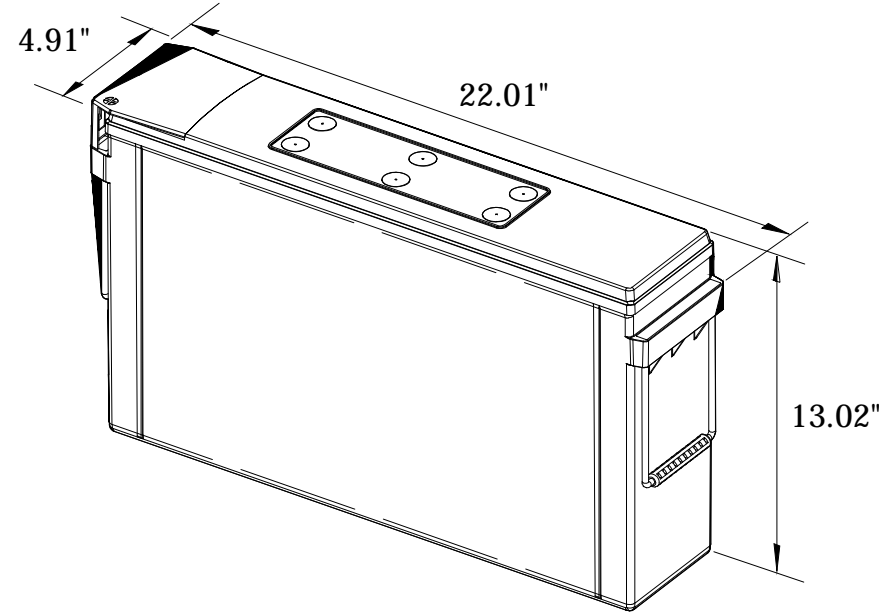
ELEVATIONS

A1





ALPHA  
210 FTX BATTERY UNIT



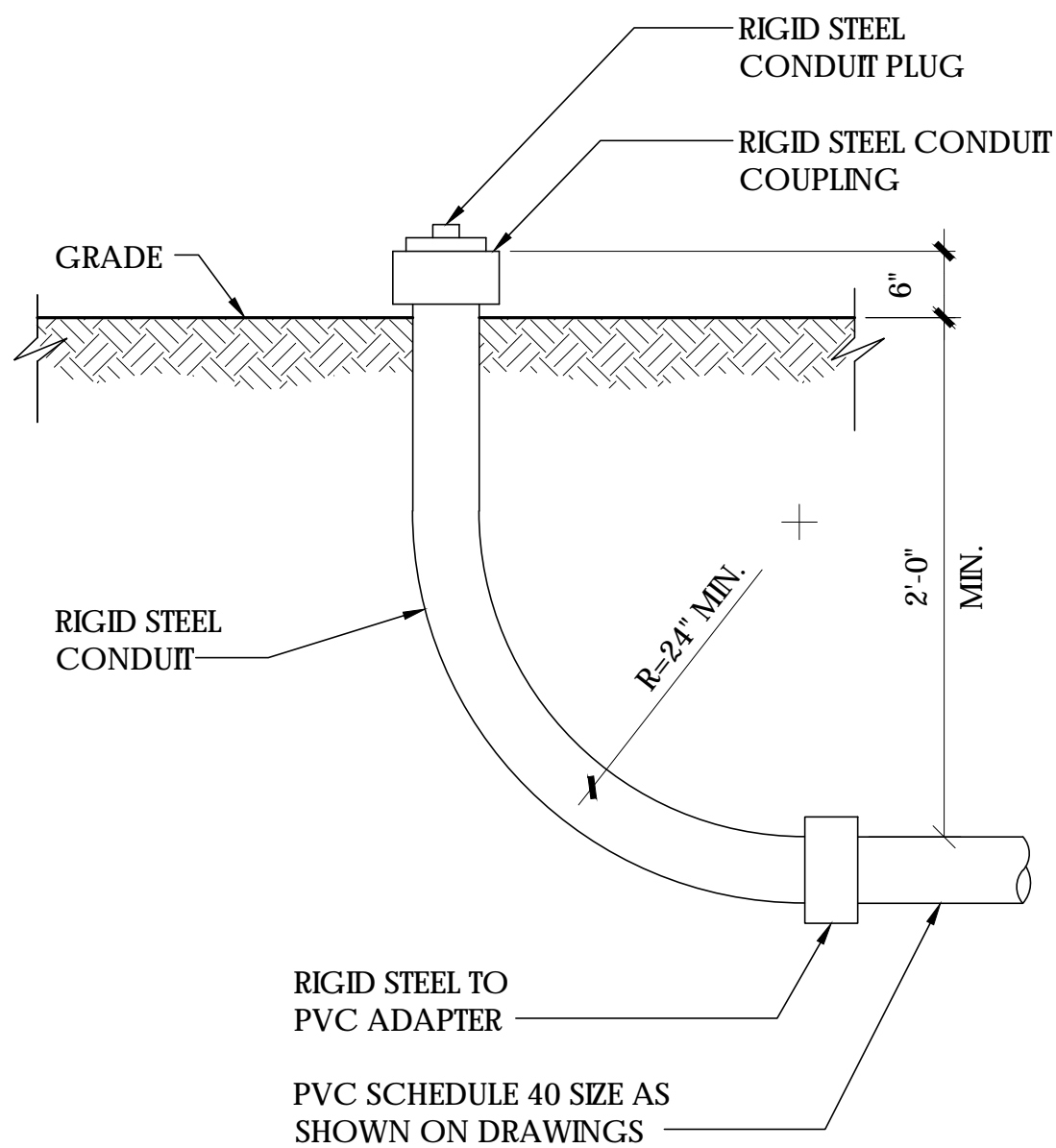
EQUIPMENT SPECIFICATIONS (1 UNIT)

MFG: ALPHA  
MODEL: 210 FTX  
HEIGHT: 13.02 IN  
WIDTH: 4.91 IN  
LENGTH: 22.01 IN  
  
WEIGHT: 145 LBS

BATTERY INFORMATION (VRLA TYPE BATTERIES)

INSTALL STATUS	BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED	VOLTAGE (V)	AMP-HOURS (AH)	KWh, Kilowatt-hours = (V*AH)/1000	TOTAL BATTERY CAPACITY, KWh	STATIONARY BATTERY STORAGE SYSTEM THRESHOLD QUANTITY, PER CFC 2019 SECTION 1206	STATIONARY BATTERY STORAGE SYSTEM CODE CHECK	TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT	TOTAL ELECTROLYTE BY VOLUME (GALLONS) =
PROPOSED	ALPHACELL 210FTX	12	12	210	2.52	30.24			2.1	25.2
TOTAL		12				30.24	70	CFC 2019 SECTION 1206 DOES NOT APPLY		25.2

7 BATTERY SPECIFICATIONS  
N.T.S.



8 STUB-UP DETAIL  
N.T.S.

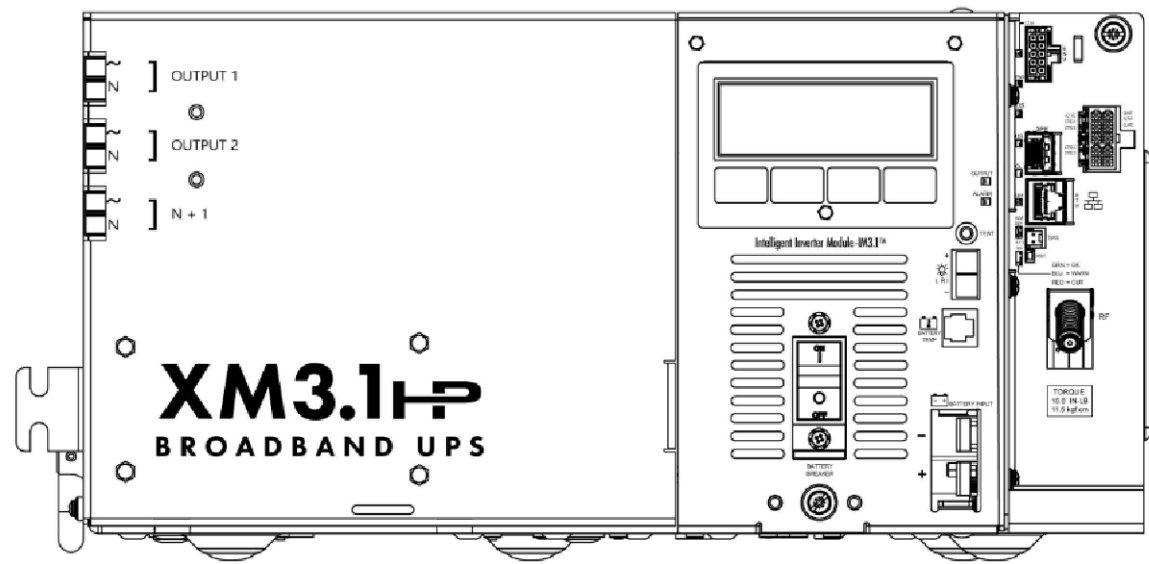
NOTE:

- USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

NOMINAL INPUT VOLTAGE: 120V AC  
OUTPUT VOLTAGE: 63/89V AC

EQUIPMENT SPECIFICATIONS

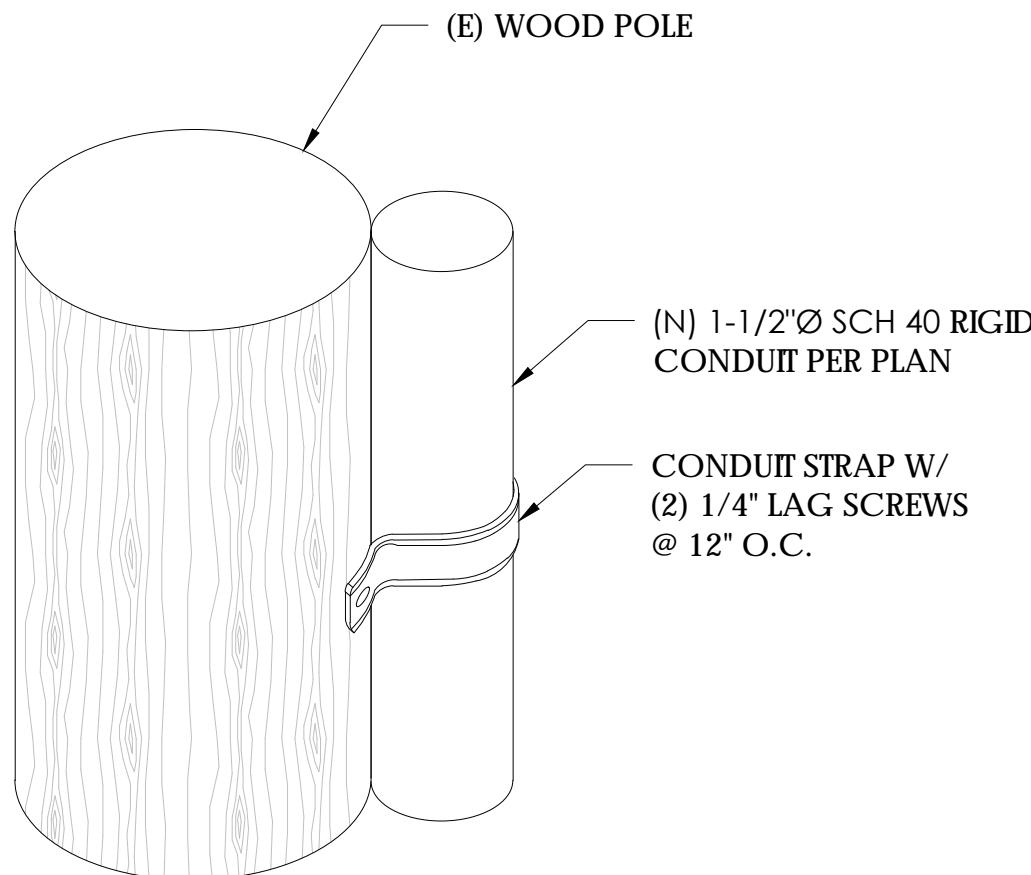
MFG: ALPHA  
MODEL: XM3.1-HP  
HEIGHT: 7.76 IN  
WIDTH: 16.43 IN  
DEPTH: 10.57 IN  
  
WEIGHT: 61 LBS



5 POWER SUPPLY DETAIL  
N.T.S.

NOTE:

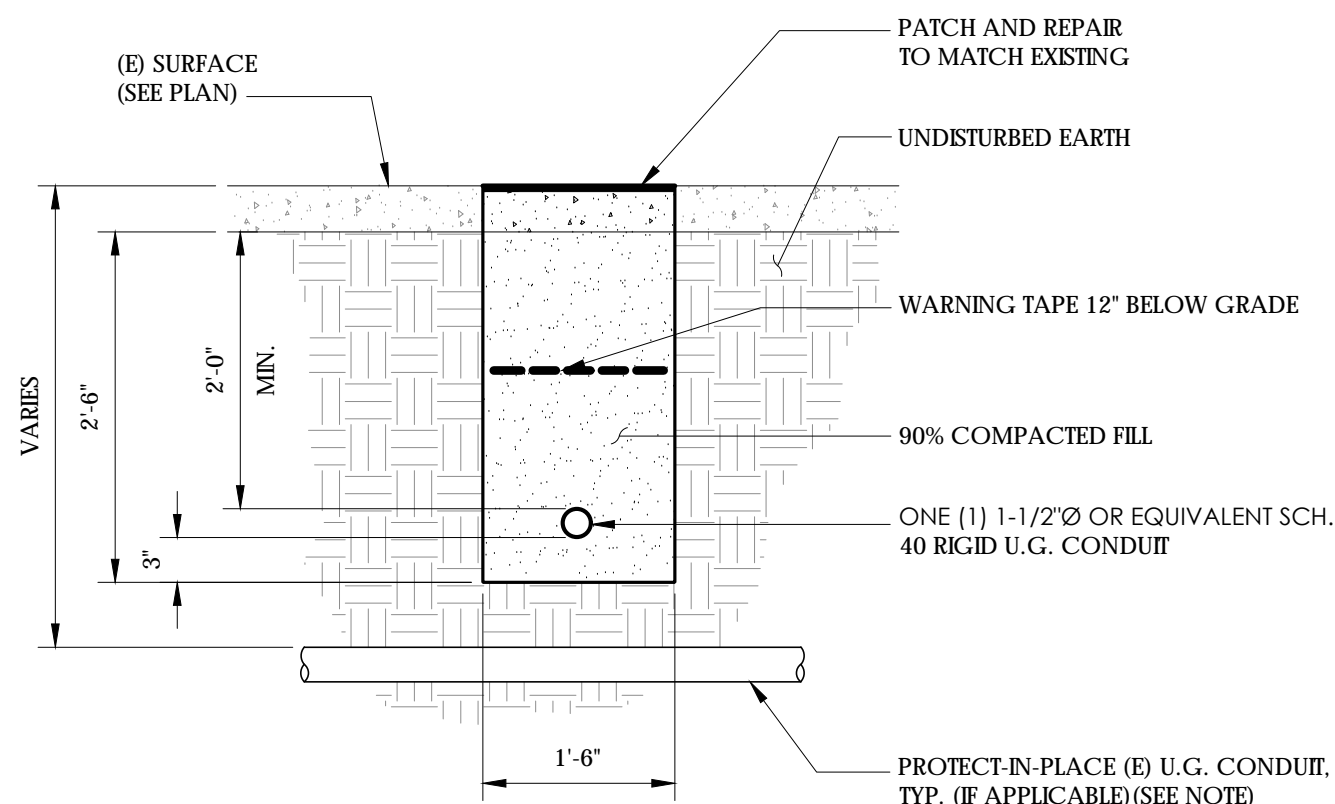
- CONTRACTOR TO VERIFY RISER MOUNTING REQUIREMENTS W/ POLE OWNER AND/OR POWER COMPANY



9 CONDUIT RISER ATTACHMENT DETAIL  
N.T.S.

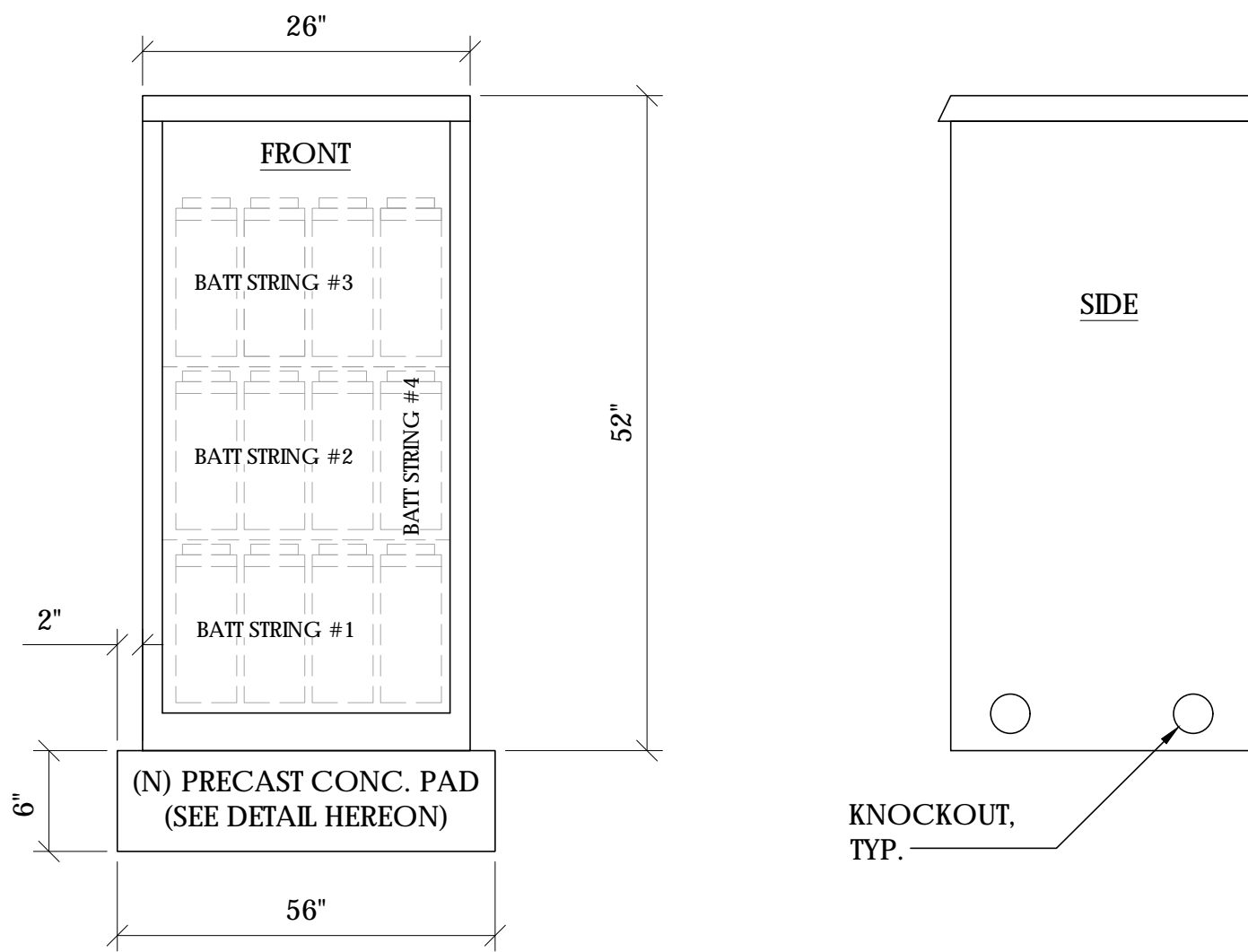
NOTE:

- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, CONDUITS WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE.



6 TRENCHING DETAIL  
N.T.S.

1 EQUIPMENT CABINET DETAIL  
N.T.S.

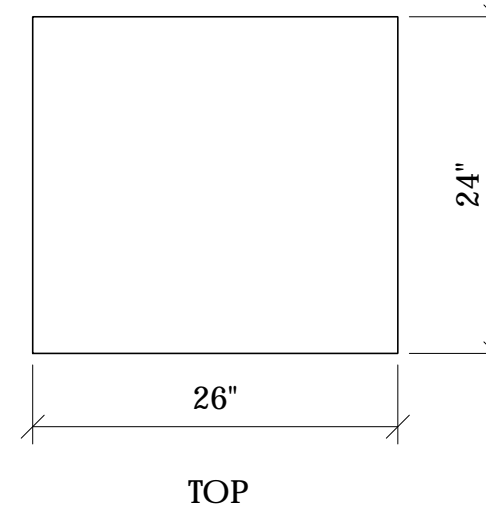


CABINET SPECIFICATIONS

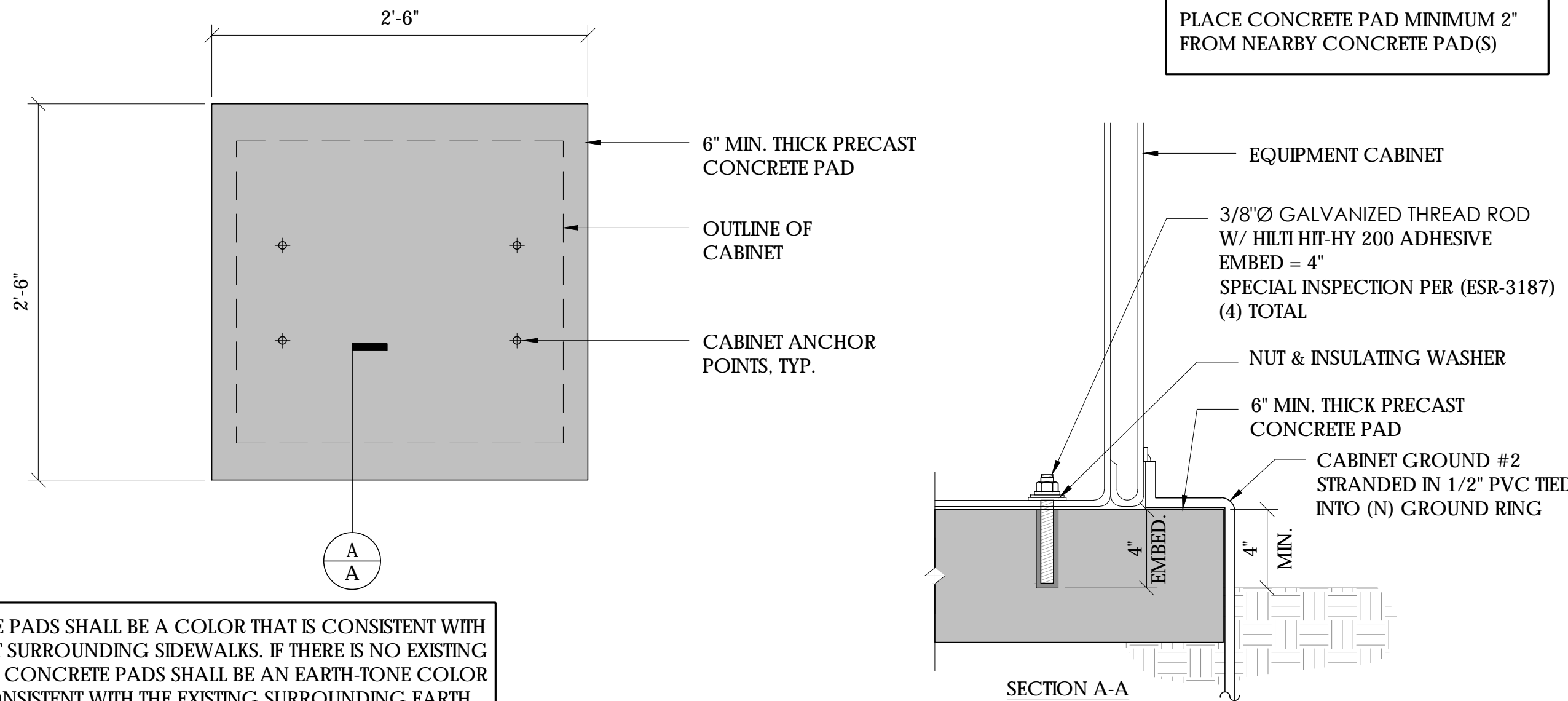
MANUFACTURER: ALPHA  
MODEL: PN-4  
HEIGHT: 52"  
WIDTH: 26"  
DEPTH: 24"  
WEIGHT (EMPTY): 180 LBS.  
WEIGHT (W/ BATTERIES): 1,920 LBS.

MATERIAL: ALUMINUM

BATTERY CONFIGURATION:  
CABINET #1: (4) BATTERY STRINGS



2 CONCRETE PAD & ANCHORAGE DETAIL  
N.T.S.



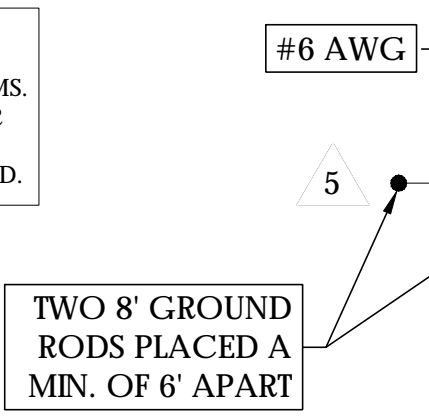
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3 LIGHTNING PROTECTION (OPTIONAL)  
N.T.S.

- 1/2"x8" COPPER GROUND ROD, FOUR PLACES, DRIVEN ABOUT 2 FEET (TYP.) FROM THE CORNERS OF THE PAD.
- #2 BARE COPPER WIRE LOOP TERMINATED TO EACH GROUND ROD AND BURIED BELOW GRADE 18 INCHES. CORROSION-PROOF CONNECTIONS (25+ YEAR LIFE-SPAN) AND HARDWARE SUITABLE FOR DIRECT BURIAL MUST BE USED.
- #2 BARE COPPER WIRE FROM LOOP TO THE ENCLOSURE.
- WHEN THE ELECTRICAL SUPPLY IS A PRIMARY SERVICE (NOT A SECONDARY OR FEEDER SERVICE) A #2 BARE COPPER WIRE MUST BE BOND THE LIGHTNING PROTECTION LOOP TO THE GROUNDING ELECTRODE CONDUCTOR WHERE THEY ARE CLOSEST.

SERVICE GROUNDING (REQUIRED)  
#6 BARE COPPER WIRE FROM SERVICE  
NEUTRAL/GROUND BAR WITH 2 GROUND RODS LOCATED 6" APART.

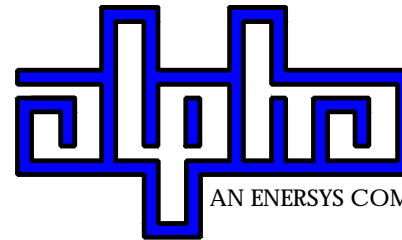
NOTE:  
GROUND TEST SHALL MEASURE LESS THAN 25 OHMS. IF EXCEEDED, CONTRACTOR TO INSTALL ADDITIONAL GROUND RODS AS REQUIRED.



3 GROUNDING DETAIL  
N.T.S.

Charter  
Spectrum

9260 TOPANGA CANYON BLVD  
CHATSORTH CA, 91311



3787 ALPHA WAY  
BELLINGHAM, WA 98226

J5 INFRASTRUCTURE  
PARTNERS

23 MAUCHLY, STE 110  
IRVINE, CA 92618

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DETAILS

D1