

**AE TA4 SCOPE OF WORK**

THIS PROJECT MODIFICATION OF EXISTING CONSISTS OF:

- INSTALLATION OF (2) (N) ALPHA PN-4 POWERNODE SYSTEM ENCLOSURE
- INSTALLATION OF (18) (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



**SITE ADDRESS:**  
**8 WOOD LN**  
**FAIRFAX, CA 94930**

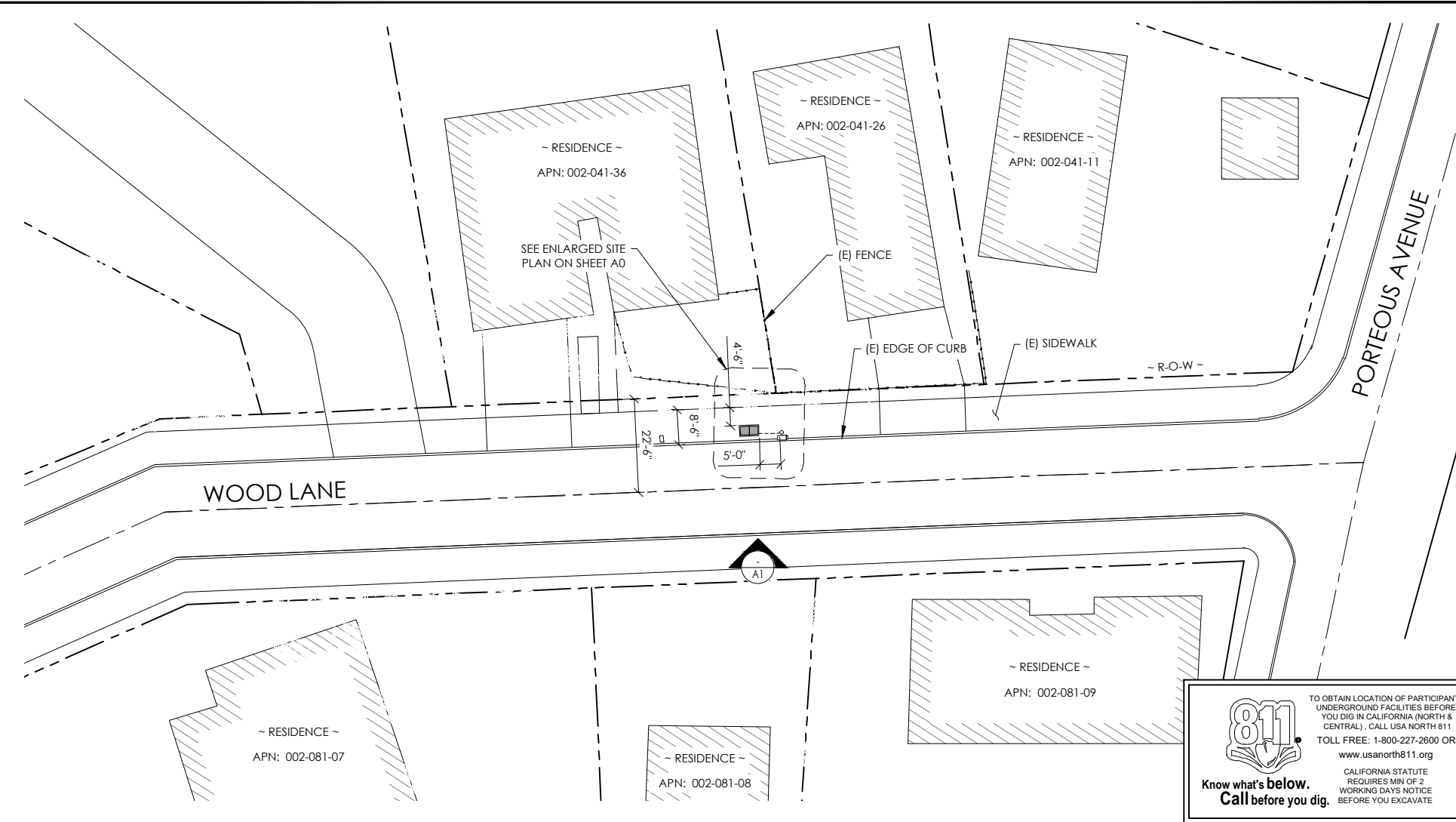
**SITE INFORMATION**

SITE ADDRESS:	8 WOOD LN FAIRFAX, CA 94930
LATITUDE/LONGITUDE (NAD 83):	37.97900439, -122.5925023
JURISDICTION:	Marin County
POWER PROVIDER:	PG&E
AMP DRAW:	5.60



**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/16/21	90% CD	AZ
B	09/21/21	90% CD	JA
0	12/30/21	100% CD	MZ
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC#2	IK
3	03/16/23	PCC#3	MZ



**DRAWING INDEX**

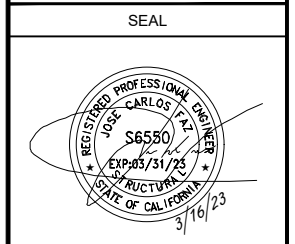
SHEET	DESCRIPTION
T1	TITLE SHEET AND SITE PLAN
LS-1	SITE SURVEY
A0	ENLARGED SITE PLANS
A1	ELEVATIONS
D1	DETAILS
TC1	TRAFFIC CONTROL

**PROJECT TEAM**

**OWNER:** COMCAST CABLE, 3011 COMCAST PLACE, LIVERMORE, CA 94551

**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, ENERSYS SYSTEMS AMERICAS, PH: (331) 278-0232, 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 8 - CALIFORNIA HISTORICAL BUILDING CODE
PART 1 - CALIFORNIA ADMINISTRATIVE CODE	PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE	PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE	PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN)
PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE	PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE	2. ANS/ITIA-222 (REV H)
PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE	3. 2018 NFPA 101, LIFE SAFETY CODE
PART 6 - CALIFORNIA ENERGY CODE	4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
PART 7 - VACANT	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.

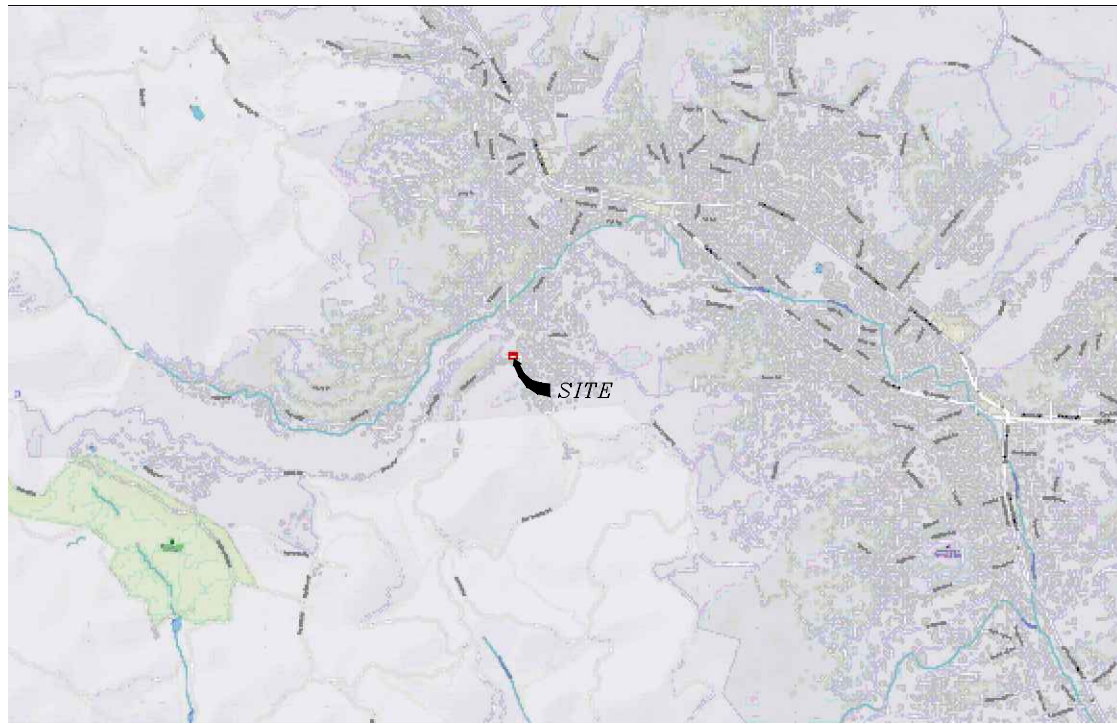
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**FAIRFAX, CA 94930**

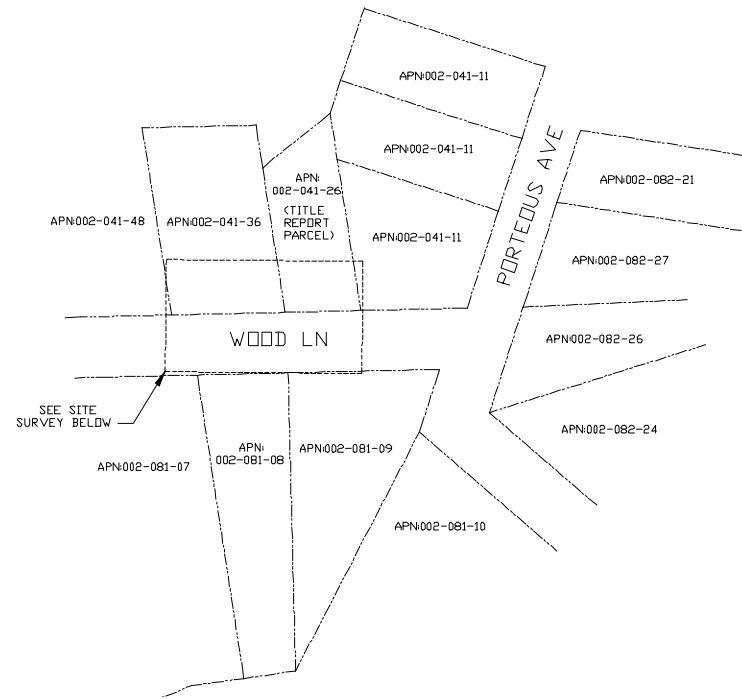
SHEET TITLE:  
**TITLE SHEET**

**T1**





VICINITY MAP  
N.T.S.



OVERALL SITE  
N.T.S.

**SURVEY DATE**  
01/27/2023

**BASIS OF BEARING**  
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE ZONE THREE, DETERMINED BY GPS OBSERVATIONS.

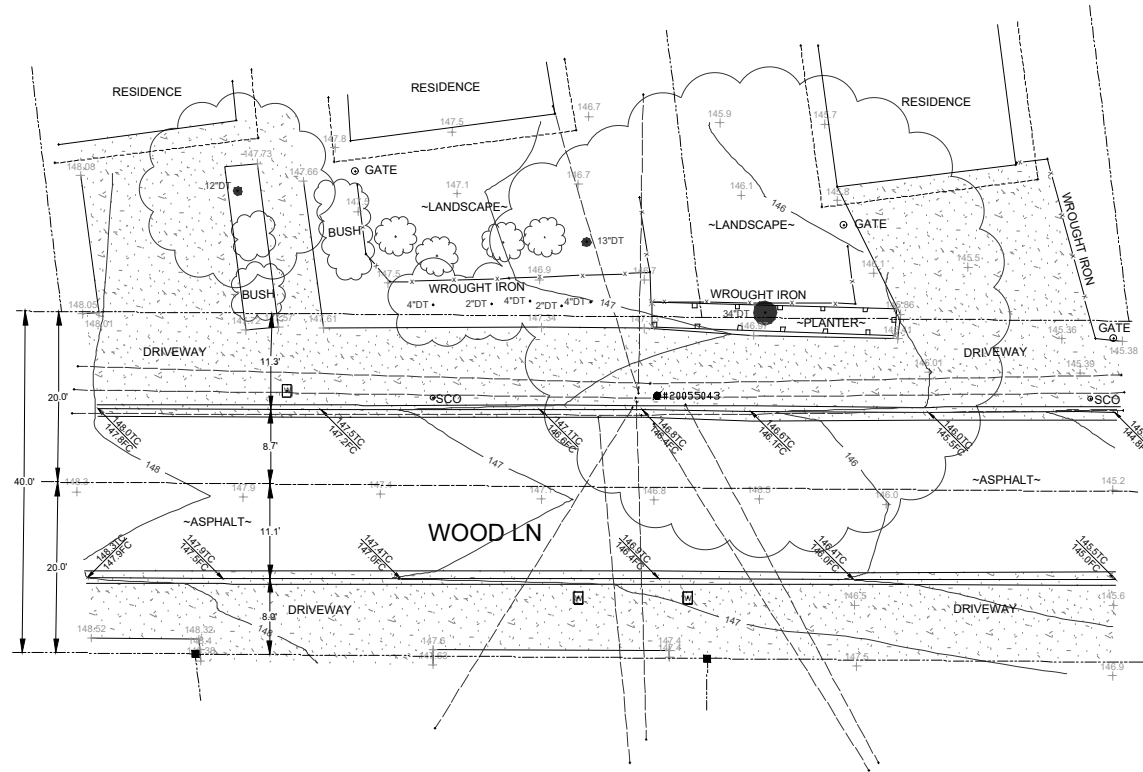
**BENCHMARK**  
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS 'GEOID 18' MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY OBSERVATIONS OF THE 'CRTN' REAL TIME NETWORK. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

**FLOOD ZONE**  
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X", ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #06041C0452E, DATED 03/17/2014.

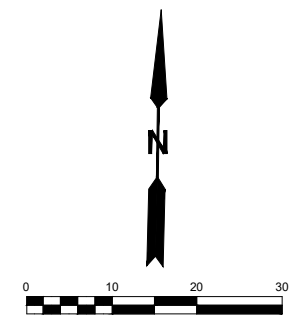
**UTILITY NOTES**  
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT B11 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**SURVEYOR'S NOTE**  
THE LOCATION AND DIMENSIONS SHOWN WERE TAKEN FROM THE MAP(S) RECORDED IN BOOK 30 PAGE 33 OF RECORDS OF SURVEY, BOOK 2 PAGE 105 OF MAPS, AND BOOK 4 PAGE 96 OF MAPS MARIN COUNTY RECORDER AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTIES.

**TITLE REPORT DESCRIPTION**  
TITLE REPORT PARCEL  
APN: 002-041-26  
PREPARED USING AMERICAN TITLE'S TITLE REPORT #5026900-6942895 DATED 01/11/2023;



SITE SURVEY



- LEGEND**  
These standard symbols may be found in the drawing.
- [Stippled Area] CONCRETE
  - [Dashed Line] PROPERTY LINE
  - [Solid Line] CENTER LINE
  - [Dotted Line] OVERHEAD LINE
  - [Line with X's] FENCE
  - [Line with Dashes] ROOF
  - [Line with Bricks] WALL
  - [Line with Dots] ROCK WALL
  - [Line with Squares] HEADER
  - [Square with M] WATER METER
  - [Square with V] WATER VALVE
  - [Square with P] POWER POLE
  - [Square with +] ELEVATION GRADE
  - [Square with -] GUY WIRE
  - [Square with M] MAILBOX
  - [Square with W] WATER METER
  - [Square with S] SIGN NO STOPPING
  - [Circle with T] MANHOLE TELE
  - [Circle with U] MANHOLE UTILITY
  - [Square with R] RECTANGLE INLET
  - [Circle with S] SHRUB
  - [Circle with T] TRUNK
  - [Circle with CT] CONIFEROUS TREE
  - [Circle with DC] DECIDUOUS TREE
  - [Circle with TC] TOP OF CURB
  - [Circle with FC] FACE OF CURB
  - [Circle with TF] TOP OF FENCE
  - [Circle with TW] TOP OF WALL
  - [Circle with CD] CURB DRAIN
  - [Circle with M] FOUND MONUMENT

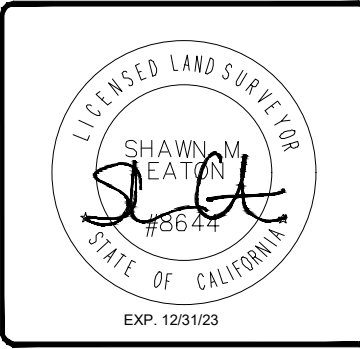
**COMCAST**  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**ALPHA**  
3767 ALPHA WAY  
BELLINGHAM, WA 98226

Eaton Land Surveying, Inc.  
15604 Magnolia Rd.  
Grass Valley, CA. 95949  
Ph. 530.830.0038

DRAWN BY: HE  
CHECKED BY: SE

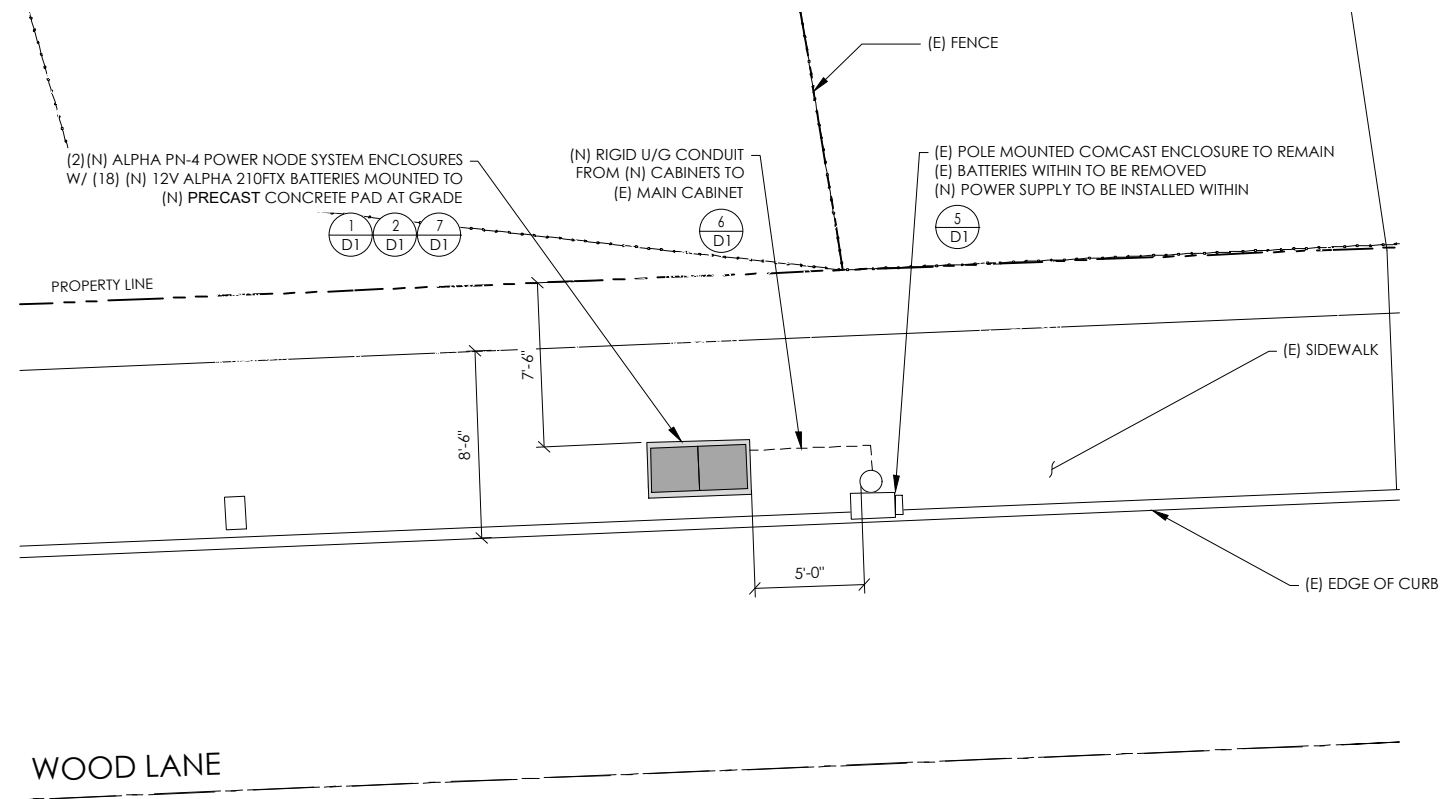
REVISIONS:		
REV	DATE	DESCRIPTION
0	02/01/23	SUBMITTAL



PROJECT INFORMATION:  
**P-060969**  
8 WOOD LN.  
FAIRFAX, CA. 94930  
MARIN COUNTY

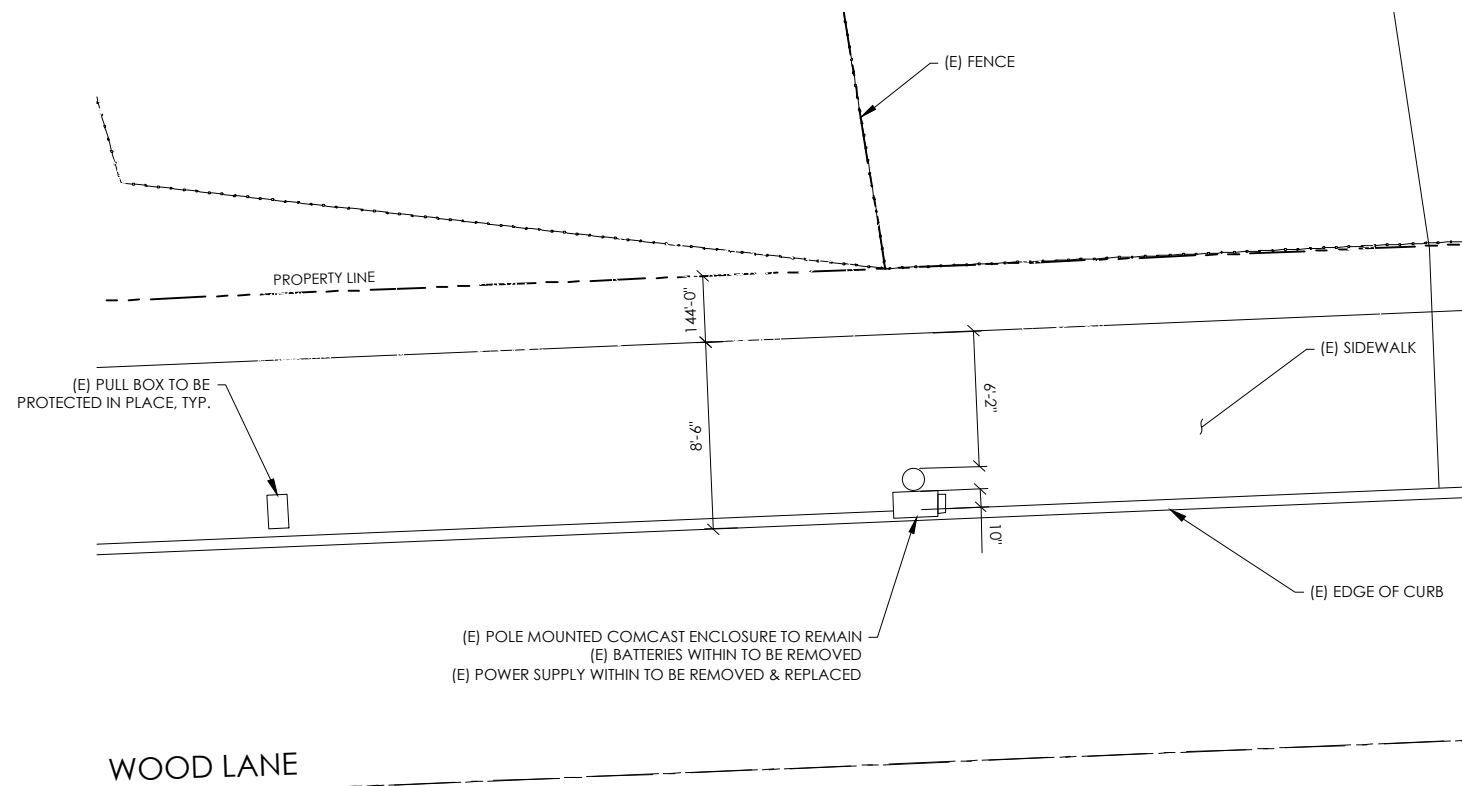
SHEET TITLE:  
**SITE SURVEY**

SHEET NUMBER:  
**LS-1**



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



EXISTING ENLARGED SITE PLAN

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



3011 COMCAST PLACE  
 LIVERMORE, CA 94551



3767 ALPHA WAY  
 BELLINGHAM, WA 98226



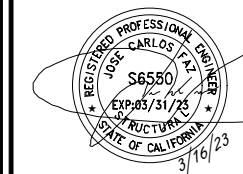
23 MAUCHLY, STE 110  
 IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
 J5 PROJECT ID: P-060969

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/16/21	90% CD	AZ
B	09/21/21	90% CD	JA
0	12/30/21	100% CD	MZ
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC#2	IK
Δ	03/16/23	PCC #3	MZ

SEAL



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 FAIRFAX, CA 94930

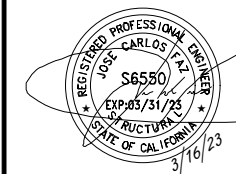
SHEET TITLE:  
**ENLARGED  
 SITE PLANS**

**A0**

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
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B	09/21/21	90% CD	JA
0	12/30/21	100% CD	MZ
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC#2	IK
3	03/16/23	PGC#3	MZ

SEAL



SITE INFORMATION

SITE ADDRESS:  
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FAIRFAX, CA 94930

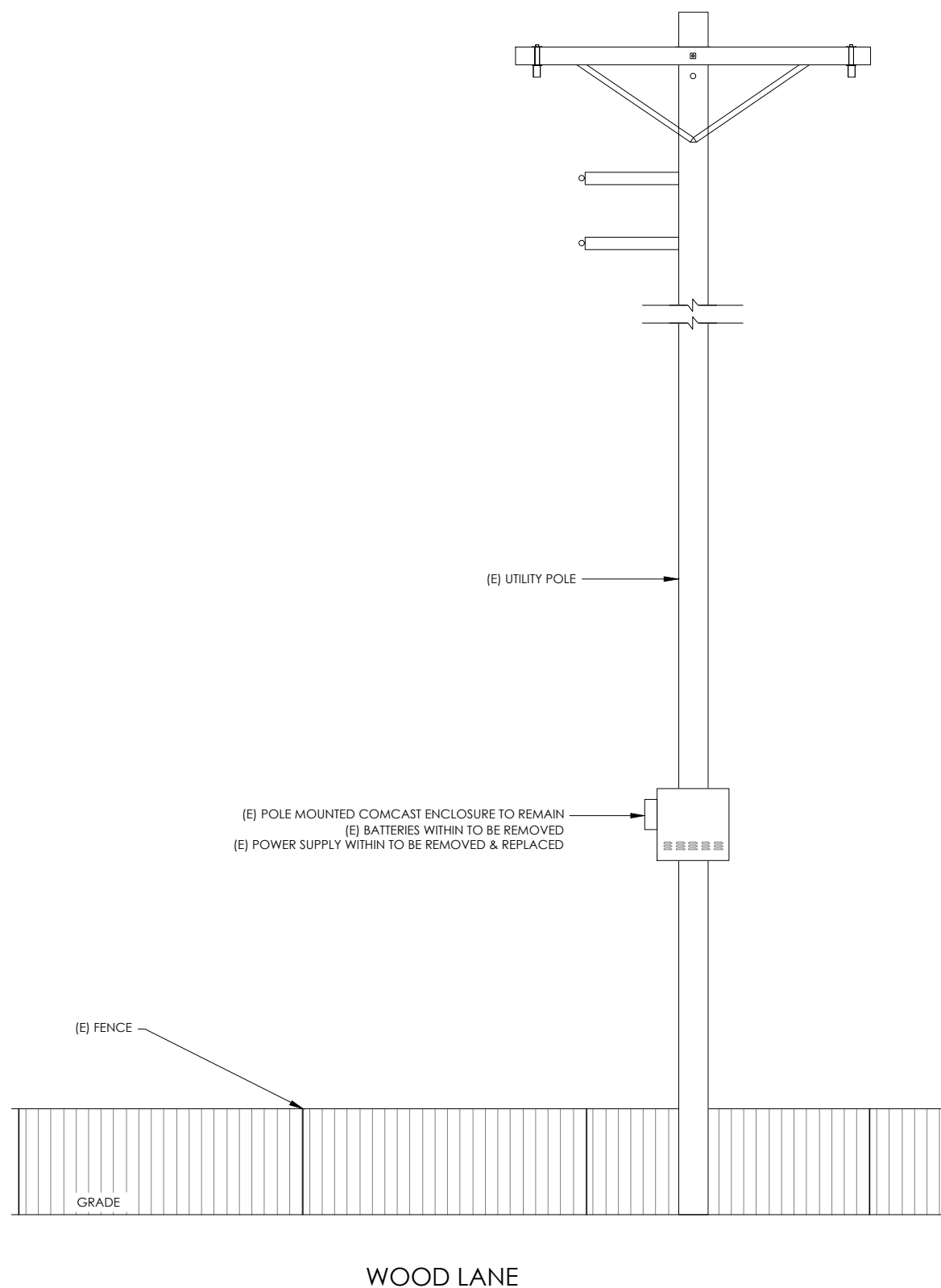
SHEET TITLE:

**ELEVATIONS**

**A1**

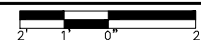
CONDUIT ROUTING NOTE:  
1. GC TO ROUTE (N) 1-1/2" RIGID U/G CONDUIT FROM (N) CABINETS TO (E) MAIN CABINET FOR (N) BATTERY & INTERFACE ASSOCIATED CABLING. SEE TRENCHING DETAIL ON SHEET D1.

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.

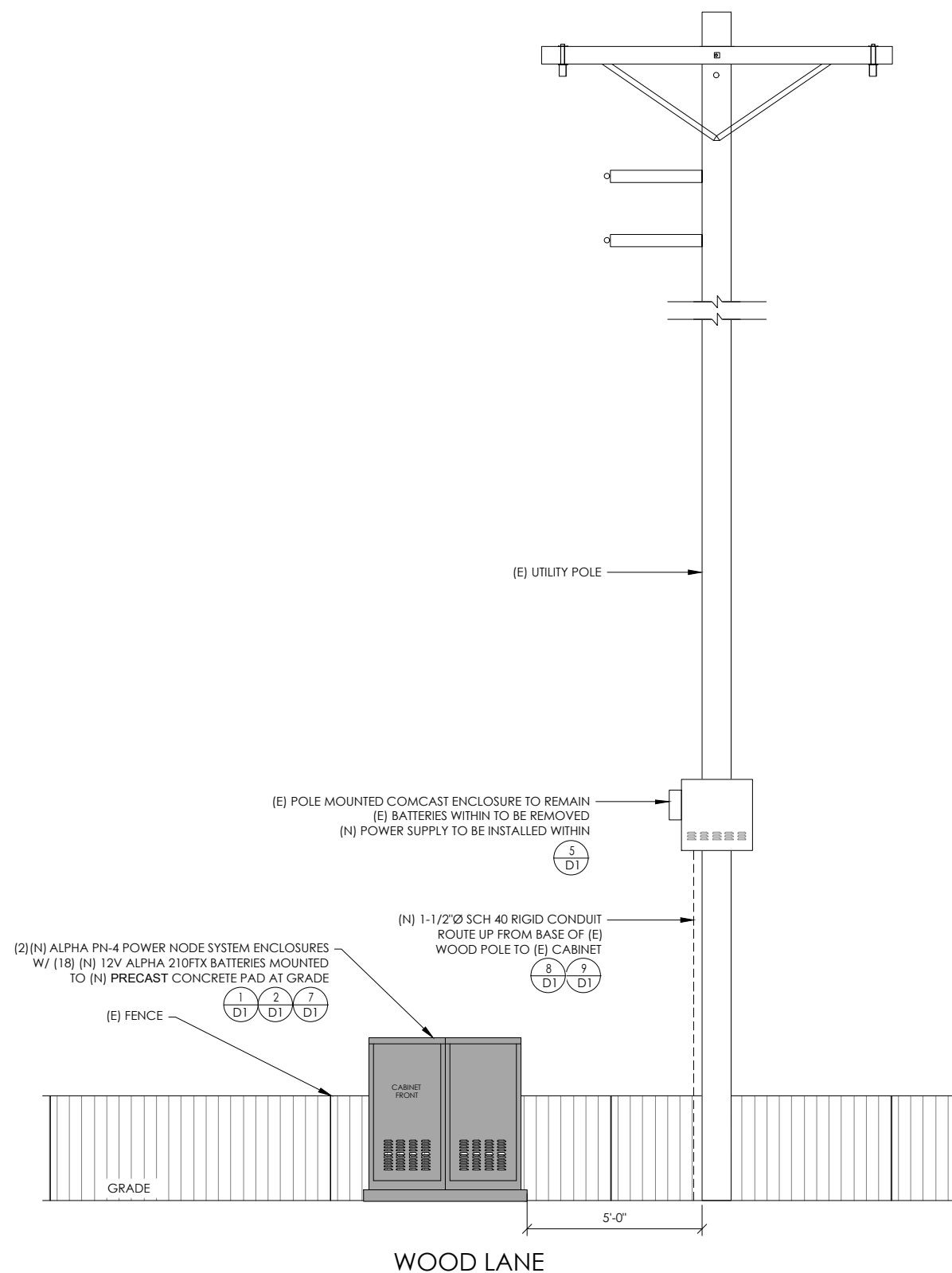


EXISTING ELEVATION

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



2



PROPOSED ELEVATION

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

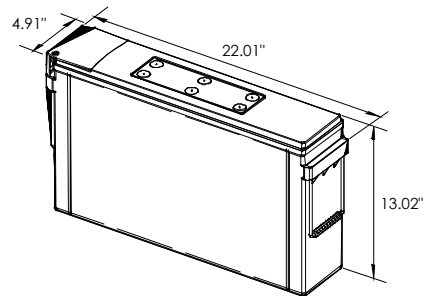


1





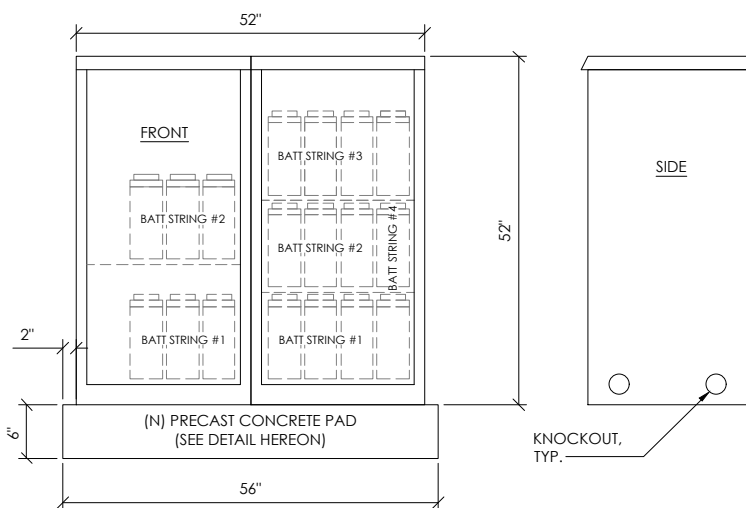
ALPHA  
210 FTX BATTERY UNIT



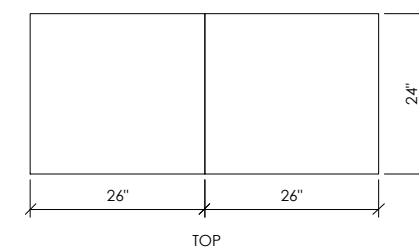
EQUIPMENT SPECIFICATIONS (1 UNIT)	
MFG:	ALPHA
MODEL:	210 FTX
HEIGHT:	13.02 IN
WIDTH:	4.91 IN
LENGTH:	22.01 IN
WEIGHT:	145 LBS

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	18	12	210	2.52	45.36			2.1	37.8
TOTAL		18				45.36	70	CFC 2019 SECTION 1206 DOES NOT APPLY		37.8

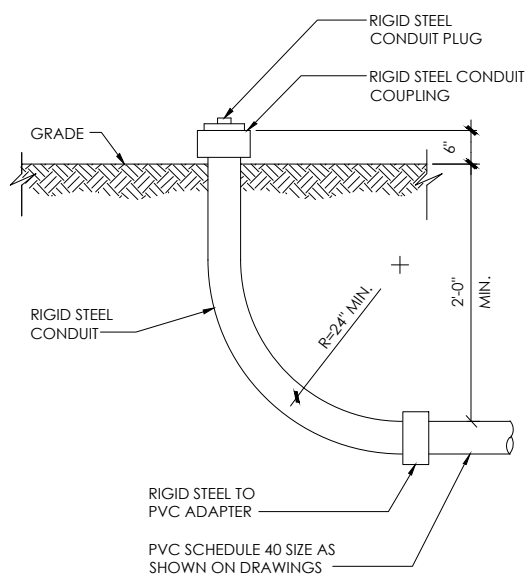
7 BATTERY SPECIFICATIONS  
N.T.S.



CABINET SPECIFICATIONS	
MANUFACTURER:	ALPHA
MODEL:	PN-4
HEIGHT:	52"
WIDTH:	26"
DEPTH:	24"
WEIGHT (EMPTY):	360 LBS.
WEIGHT (W/ BATTERIES):	2,970 LBS.
MATERIAL:	ALUMINUM
BATTERY CONFIGURATION: CABINET #1: (4) BATTERY STRINGS CABINET #2: (2) BATTERY STRINGS	



1 DUAL EQUIPMENT CABINET DETAIL  
N.T.S.

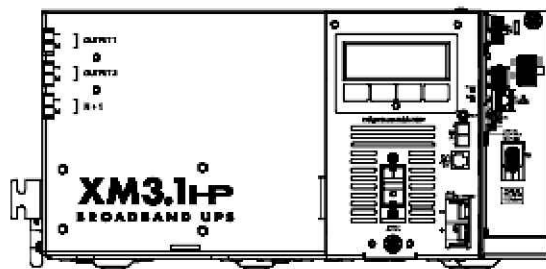


8 STUB-UP DETAIL  
N.T.S.

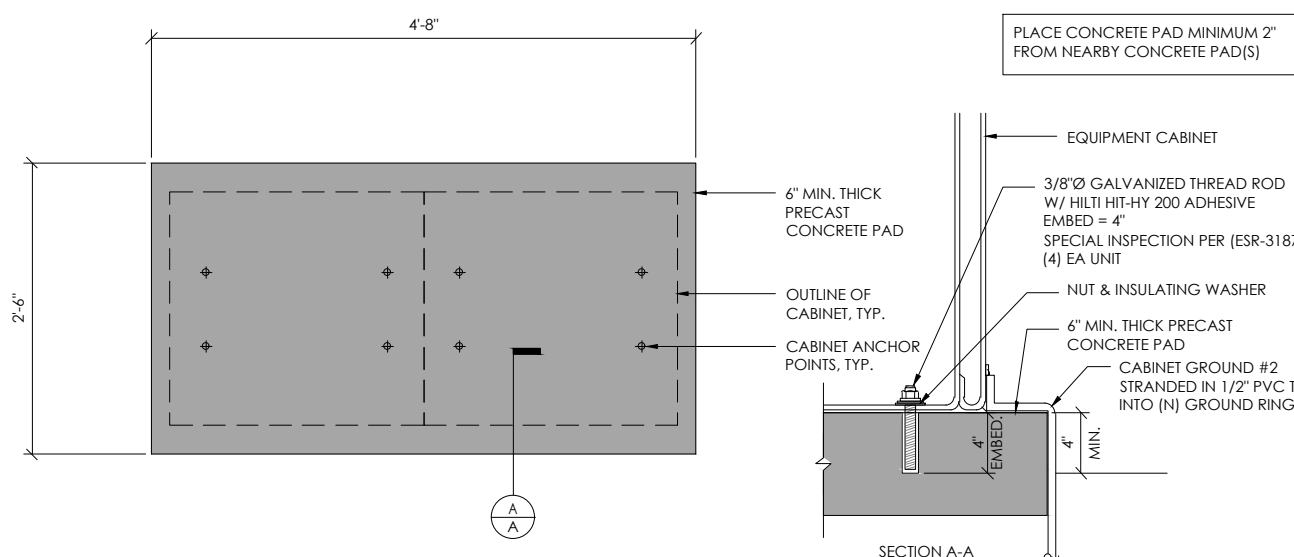
NOTE:  
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

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

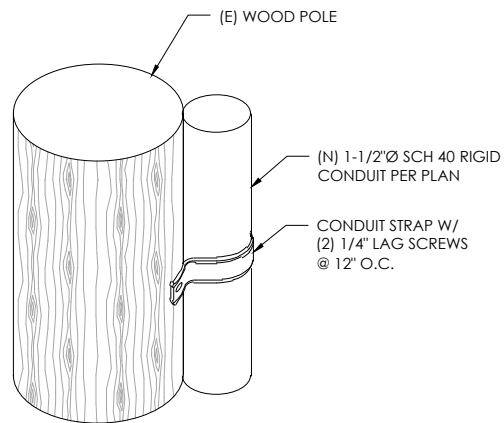


5 POWER SUPPLY DETAIL  
N.T.S.



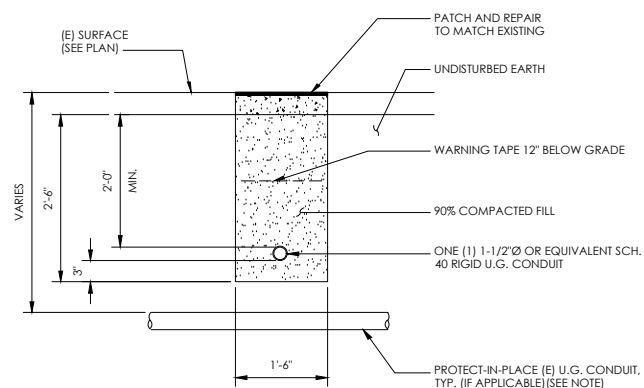
2 CONCRETE PAD & ANCHORAGE DETAIL  
N.T.S.

NOTE:  
1. CONTRACTOR TO VERIFY RISER MOUNTING REQUIREMENTS W/ POLE OWNER AND/OR POWER COMPANY



9 CONDUIT RISER ATTACHMENT DETAIL  
N.T.S.

NOTE:  
1. 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.

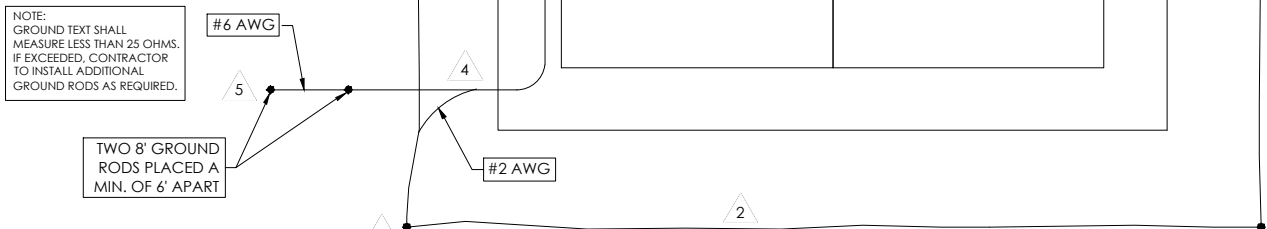
LIGHTNING PROTECTION (OPTIONAL)

- 1/2"x6" 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.



3011 COMCAST PLACE  
LIVERMORE, CA 94551



3767 ALPHA WAY  
BELLINGHAM, WA 98226



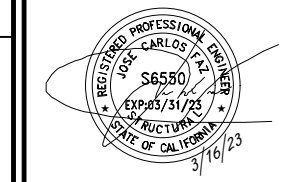
23 MAUCHLY, STE 110  
IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-060969

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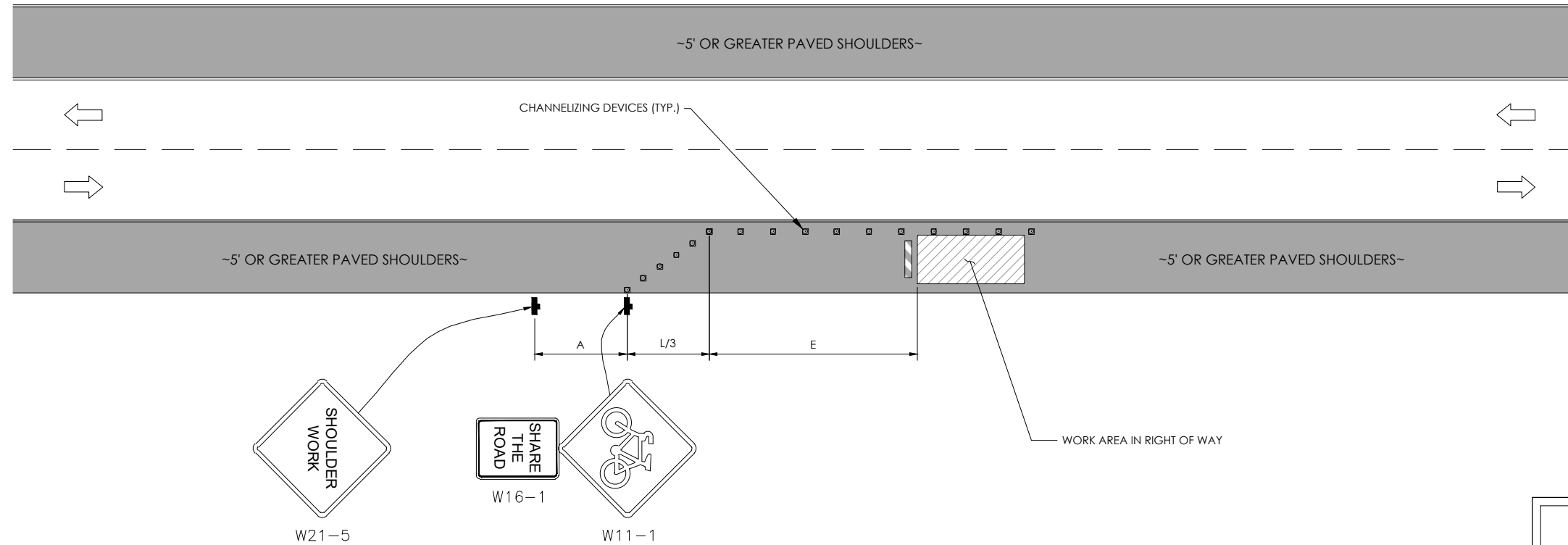
SHEET TITLE:  
DETAILS

D1

# TRAFFIC CONTROL FOR WORK ON SHOULDERS - RESIDENTIAL AREA

## WORK AREA TRAFFIC CONTROL HANDBOOK 2019 14TH EDITION

PER STANDARDS AND GUIDANCE OF CA-MUTCD



**GENERAL NOTES:**

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA 2010 STANDARD PLAN A20A.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE..
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE THE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC., FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
15. DIMENSIONS BASED ON GIS MAPPING DATA AND/OR RECORD DRAWINGS AND NOT A SURVEY.
16. TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
17. ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.

SPEED MPH (2)	DIMENSION A/B/C ADVANCE WARNING SIGN SPACING (5)	DIMENSION L MARGIN TAPER LENGTH	DIMENSION L/2 SHIFTING TAPER LENGTH	DIMENSION L/3 MINIMUM SHOULDER TAPER	DIMENSION "E" BUFFER SPACE (4 A) AND FLAGGER STATION STOPPING SIGHT DISTANCE (4 B)			MAXIMUM CHANNELIZER TAPER SPACING (3)	MAXIMUM CHANNELIZER TANGENT SPACING (3)	MAXIMUM CHANNELIZER CONFLICT SPACING (5)
					(0%)	(3%)	(6%)			
25	100	125	65	4.5	(15.5)	(16.0)	(13.5)	25	50	12
30	2.50	180	90	6.0	(20.0)	(20.5)	(21.5)	30	60	15
35	2.50	245	125	8.5	(25.0)	(26.0)	(27.5)	35	70	17
40	2.50	320	160	11.0	(30.5)	(31.5)	(33.5)	40	80	20
45	3.50	540	270	18.0	(36.0)	(38.0)	(40.0)	45	90	22
50	3.50	600	300	20.0	(42.5)	(45.0)	(47.5)	50	100	25
55	5.00	660	330	22.0	(49.5)	(52.0)	(55.5)	50	100	25
60	5.00	720	360	24.0	(57.0)	(60.0)	(64.0)	50	100	25
65	5.00	780	390	26.0	(64.5)	(68.5)	(73.0)	50	100	25
1	WORK ON FREEWAYS AND EXPRESSWAYS SHALL MEET THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATION REQUIREMENTS									
2	POSTED SPEED OR OBSERVED OPERATION SPEED (WHICHEVER IS GREATER)									
3	CHANNELIZER SPACING SHALL BE REDUCED BY HALF AT AREAS WHERE WORK IS TAKING PLACE ON CURVES OR AREAS OF HEAD-ON CONFLICT									
4 A	BUFFER SPACE MAY BE INSERTED IN LOW SPEED URBAN AREAS AND SHOULD BE INSERTED IN HIGH SPEED URBAN AND RURAL AREAS									
4 B	THE STOPPING SIGHT DISTANCE SHOULD ENABLE ROAD USERS TO SEE THE PRIMARY FLAGGER STATION AND SAFELY STOP									
5	SIGN SPACING IN RURAL AREAS SHOULD BE 500 FT									
6	** TABLE 6F 101 (CA)									



3011 COMCAST PLACE  
LIVERMORE, CA 94551



3767 ALPHA WAY  
BELLINGHAM, WA 98226

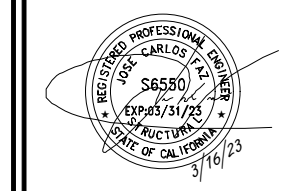


23 MAUCHLY, STE 110  
IRVINE, CA 92618  
J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-060969

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/16/21	90% CD	AZ
B	09/21/21	90% CD	JA
0	12/30/21	100% CD	MZ
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC#2	IK
3	03/16/23	PCC#3	MZ

SEAL



SITE INFORMATION

SITE ADDRESS:  
8 WOOD LN,  
FAIRFAX, CA 94930

SHEET TITLE:  
**TRAFFIC CONTROL**

**TC1**

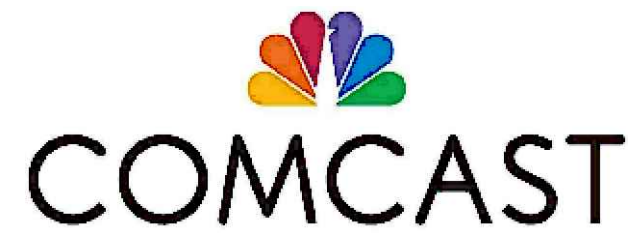




**AE TA4 SCOPE OF WORK**

THIS PROJECT MODIFICATION OF EXISTING CONSISTS OF:

- INSTALLATION OF (2) (N) ALPHA PN-4 POWERNODE SYSTEM ENCLOSURE
- INSTALLATION OF (18) (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



**SITE ADDRESS:**  
10 MADRONE COURT  
FAIRFAX CA 94930

**SITE INFORMATION**

SITE ADDRESS:	10 MADRONE COURT FAIRFAX CA 94930
LATITUDE/LONGITUDE (NAD 83):	37.978657, -122.598878
JURISDICTION:	Town of Fairfax
POWER PROVIDER:	PG&E
AMP DRAW:	5.21

**DRAWING INDEX**

SHEET	DESCRIPTION
T1	TITLE SHEET AND SITE PLAN
LS1	LAND SURVEY
A1	ELEVATIONS
D1	DETAILS
TC1	TRAFFIC CONTROL 1

**PROJECT TEAM**

**OWNER:** COMCAST CABLE  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**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 8 - CALIFORNIA HISTORICAL BUILDING CODE
PART 1 - CALIFORNIA ADMINISTRATIVE CODE	PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE	PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE	PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN)
PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE	PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE	2. ANS/I/TIA-222 (REV H)
PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE	3. 2018 NFPA 101, LIFE SAFETY CODE
PART 6 - CALIFORNIA ENERGY CODE	4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
PART 7 - VACANT	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.



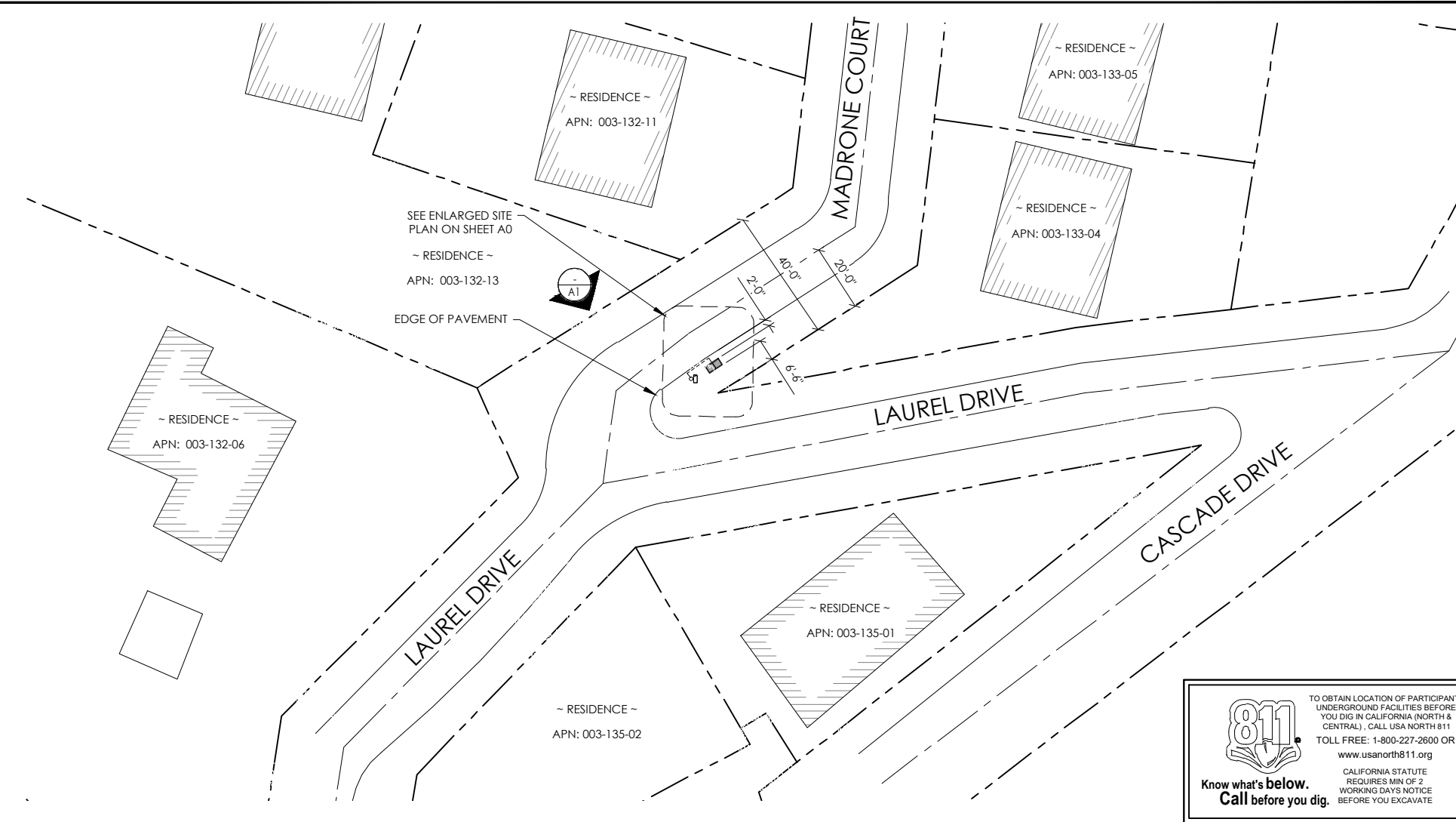
**J5 INFRASTRUCTURE**

23 MAUCHLY, STE 110  
IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-061501

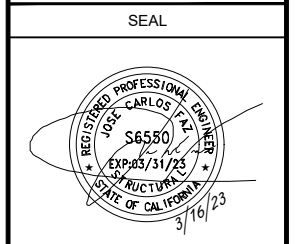
**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
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0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ



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

**SITE PLAN**

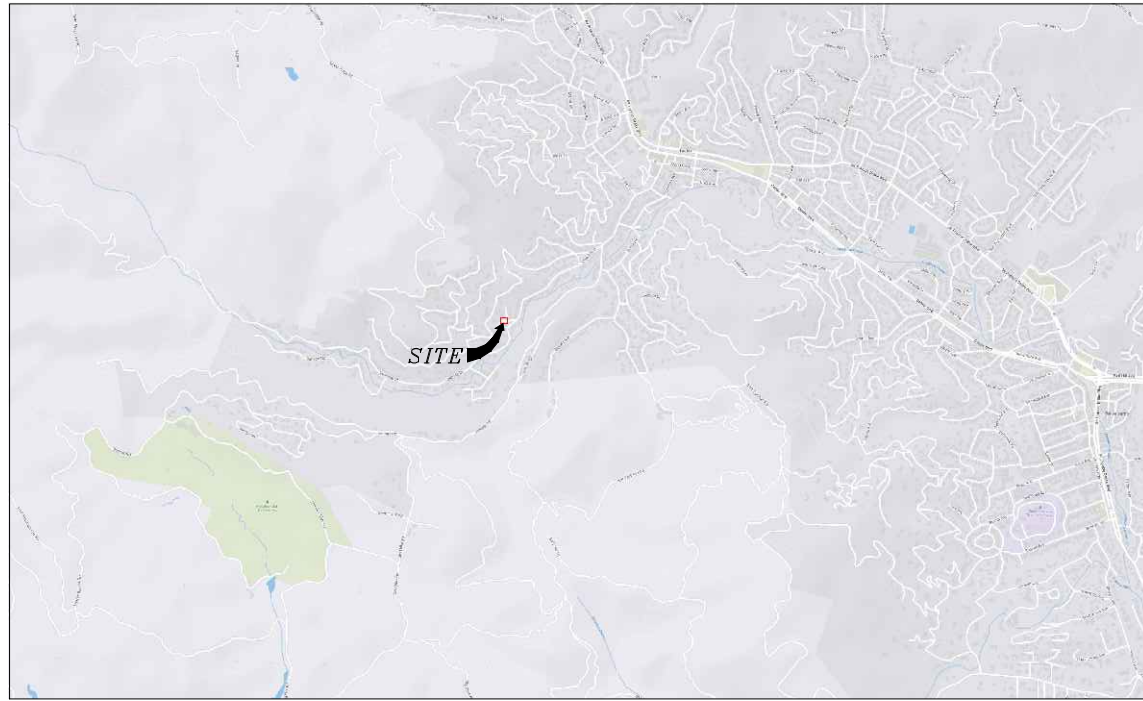


**SITE INFORMATION**

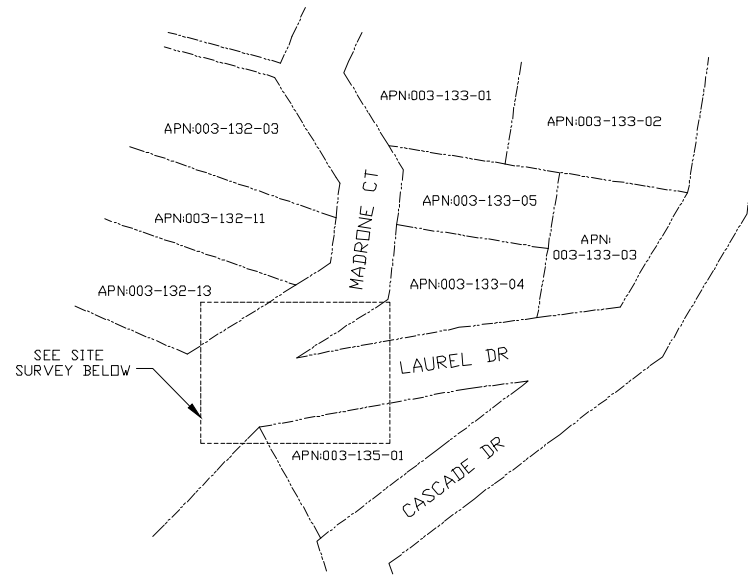
**SITE ADDRESS:**  
10 MADRONE COURT,  
FAIRFAX CA 94930

SHEET TITLE:  
**T1**





VICINITY MAP  
N.T.S.



OVERALL SITE  
N.T.S.

**SURVEY DATE**  
01/26/2023

**BASIS OF BEARING**  
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE ZONE THREE, DETERMINED BY GPS OBSERVATIONS.

**BENCHMARK**  
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS 'GEOID 18' MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY OBSERVATIONS OF THE 'ORTN' REAL TIME NETWORK. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD83.

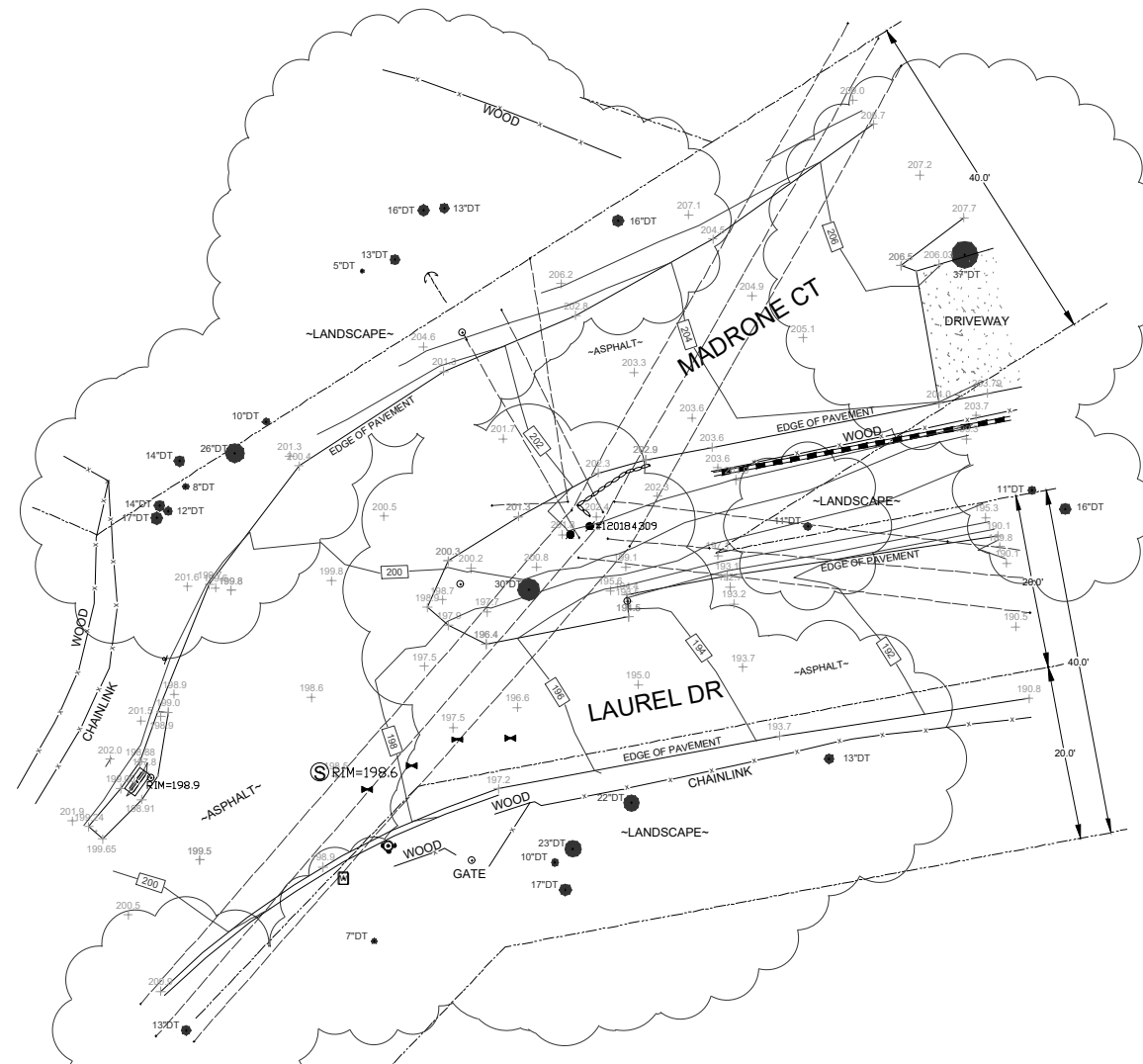
**FLOOD ZONE**  
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X". ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #06041C0451E, DATED 03/17/2014.

**UTILITY NOTES**  
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT B11 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/ OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

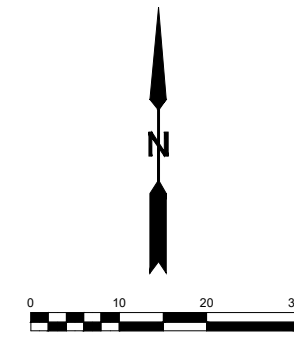
**SURVEYOR'S NOTE**  
THIS SURVEY WAS MADE WITHOUT THE BENEFIT OF A TITLE REPORT. THE LOCATION AND DIMENSIONS SHOWN WERE TAKEN FROM THE MAP RECORDED IN BOOK(S) 2018 PAGE 139 OF RECORDS OF SURVEYS AND BOOK 5 PAGE 14 OF MAPS, MARIN COUNTY RECORDER AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTIES.

**TITLE REPORT DESCRIPTION**  
TITLE REPORT PARCEL

APN: 003-133-04  
PREPARED USING AMERICAN TITLE'S TITLE REPORT #5026900-6942914 DATED 01/11/2023;



SITE SURVEY



**LEGEND**

- These standard symbols may be found in the drawing.
- CONCRETE
  - PROPERTY LINE
  - CENTER LINE
  - OVERHEAD LINE
  - FENCE
  - ROOF WALL
  - ROCK WALL
  - WATER METER
  - WATER VALVE
  - POWER POLE
  - ELEVATION GAUGE
  - GUY WIRE
  - MAILBOX
  - WATER METER
  - SIGN
  - MANHOLE SEWER
  - MANHOLE UTILITY
  - RECTANGLE INLET
  - SHRUB
  - TRUNK
  - CONIFEROUS TREE
  - DECIDUOUS TREE
  - TOP OF CURB
  - FACE OF CURB
  - TOP OF FENCE
  - TOP OF WALL
  - CURB DRAIN

**COMCAST**  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**ALPHA**  
3767 ALPHA WAY  
BELLINGHAM, WA 98226

Eaton Land Surveying, Inc.  
15604 Magnolia Rd.  
Grass Valley, CA. 95949  
Ph. 530.830.0038

DRAWN BY: HE  
CHECKED BY: SE

REVISIONS:		
REV	DATE	DESCRIPTION
0	02/07/23	SUBMITTAL



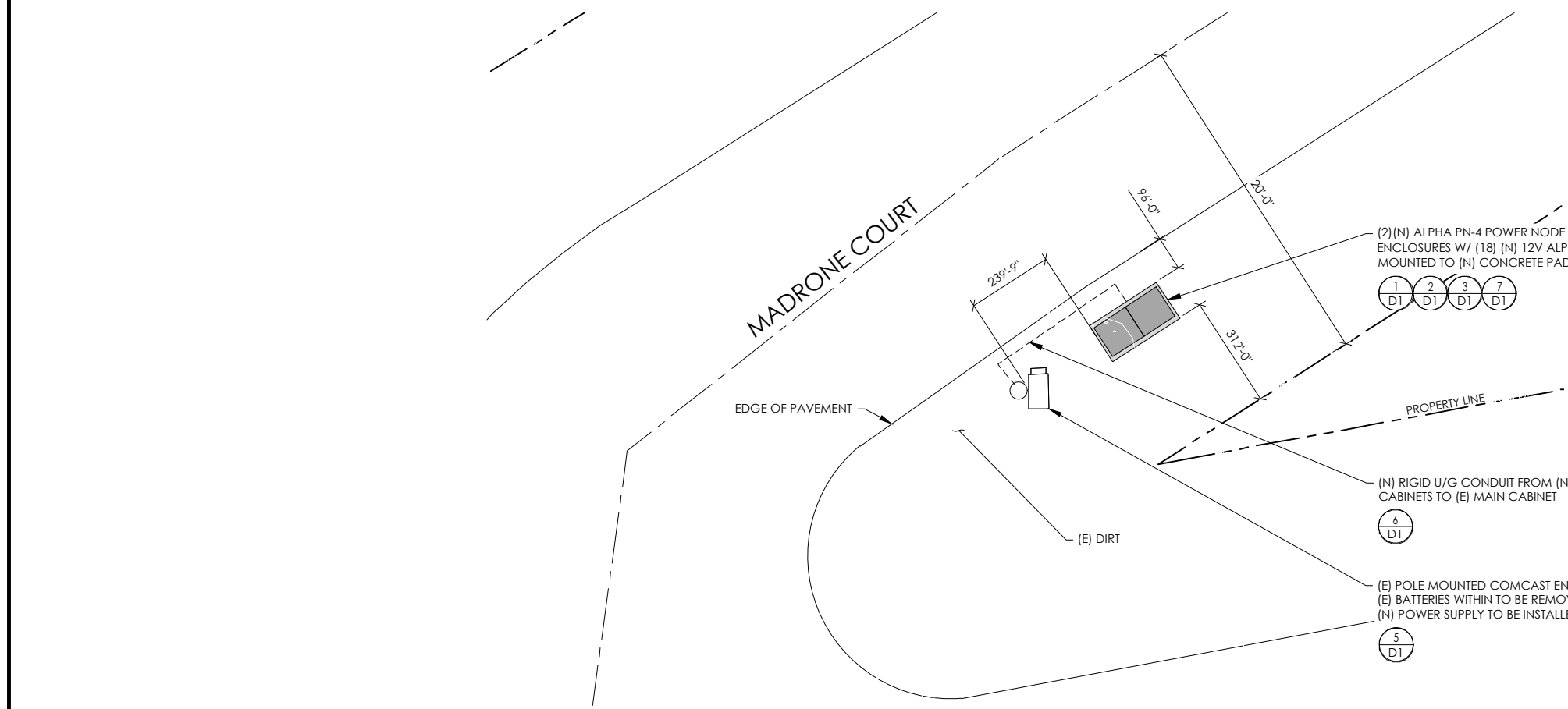
PROJECT INFORMATION:  
**P-061501**  
10 MADRONE COURT  
FAIRFAX, CA. 94930  
MARIN COUNTY

SHEET TITLE:  
**SITE SURVEY**

SHEET NUMBER:  
**LS-1**

### ISSUE STATUS

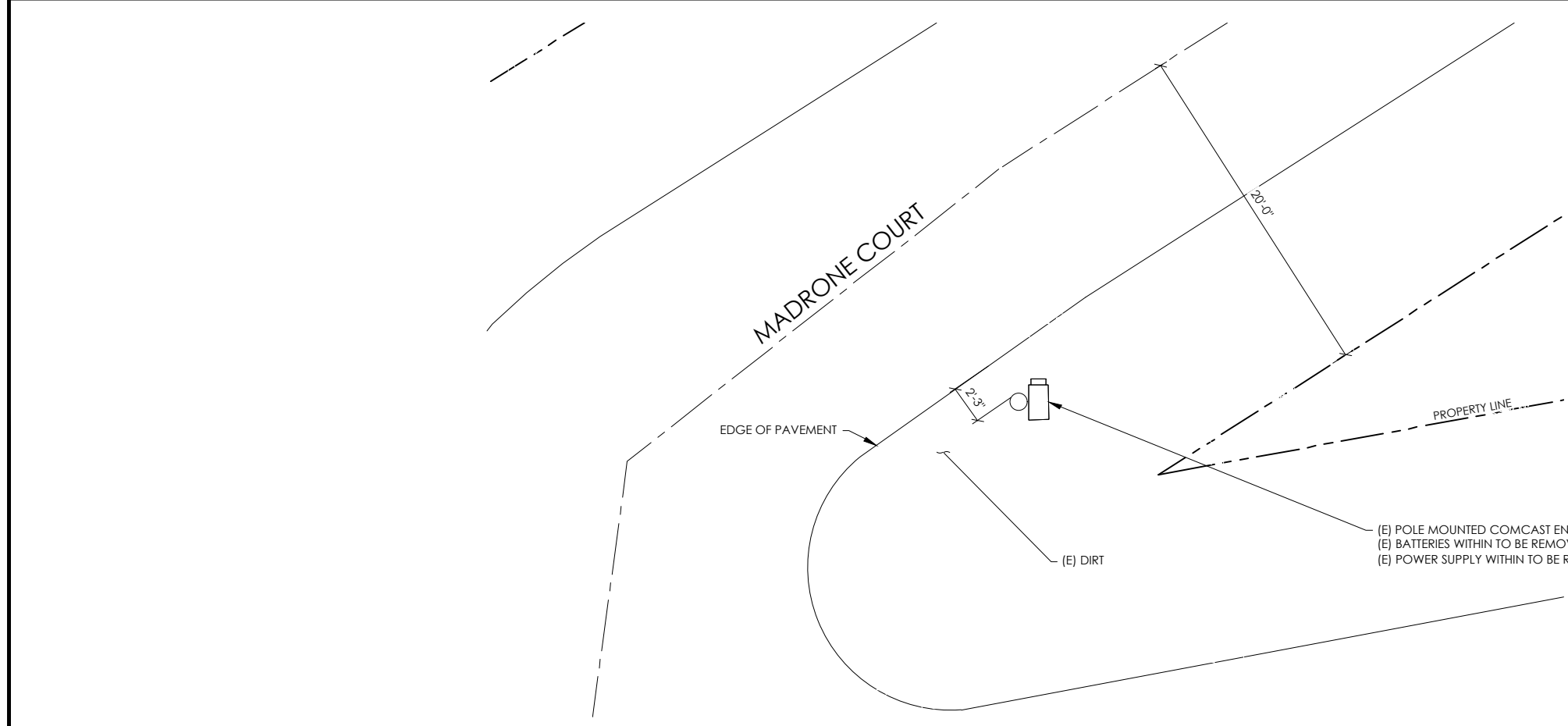
REV	DATE	DESCRIPTION	BY
A	09/21/21	90% CD	BN
0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ



PROPOSED ENLARGED SITE PLAN

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

1

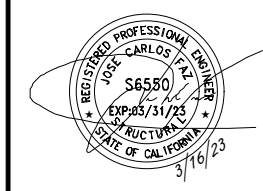


EXISTING ENLARGED SITE PLAN

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

2

SEAL



SITE INFORMATION

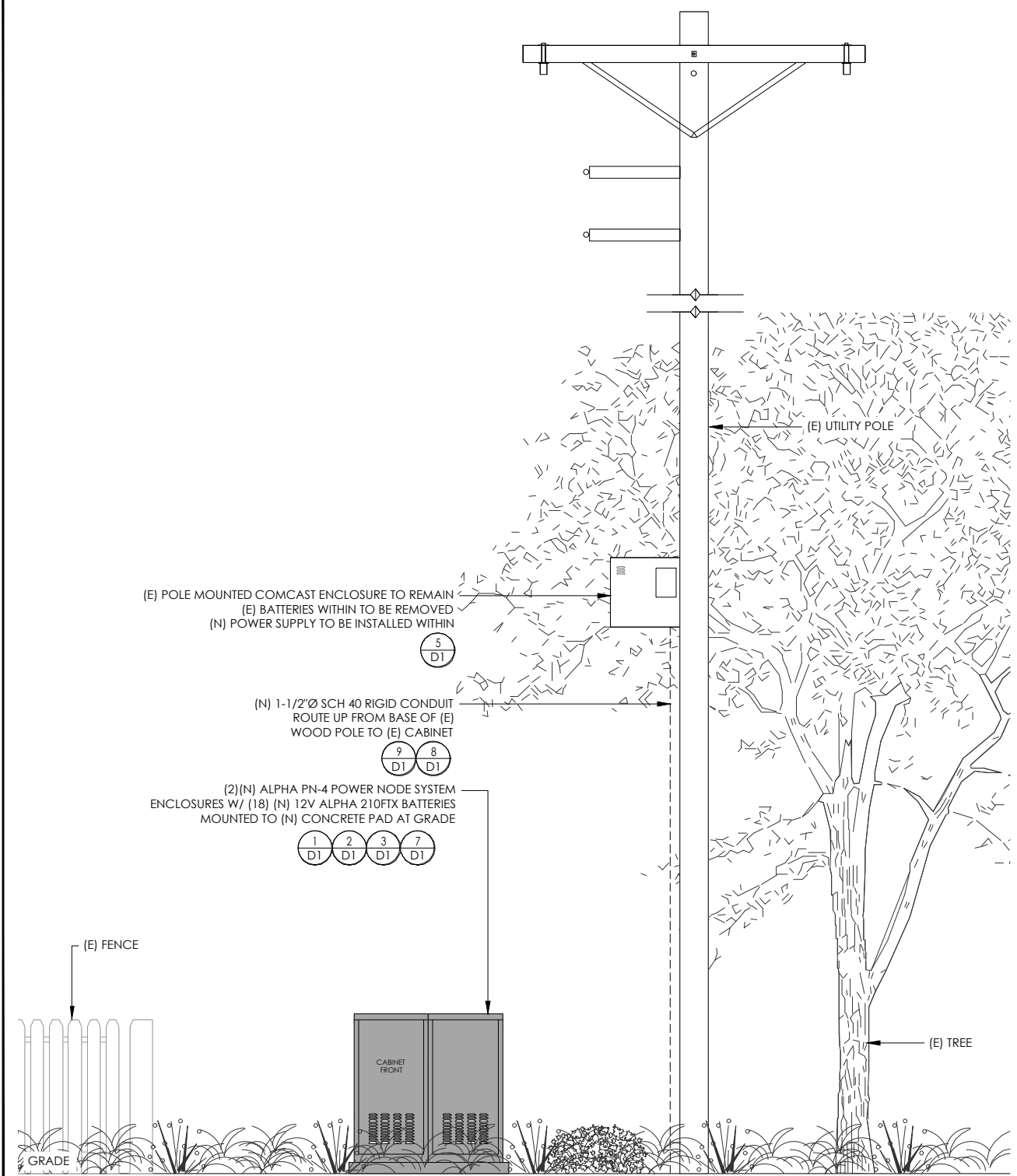
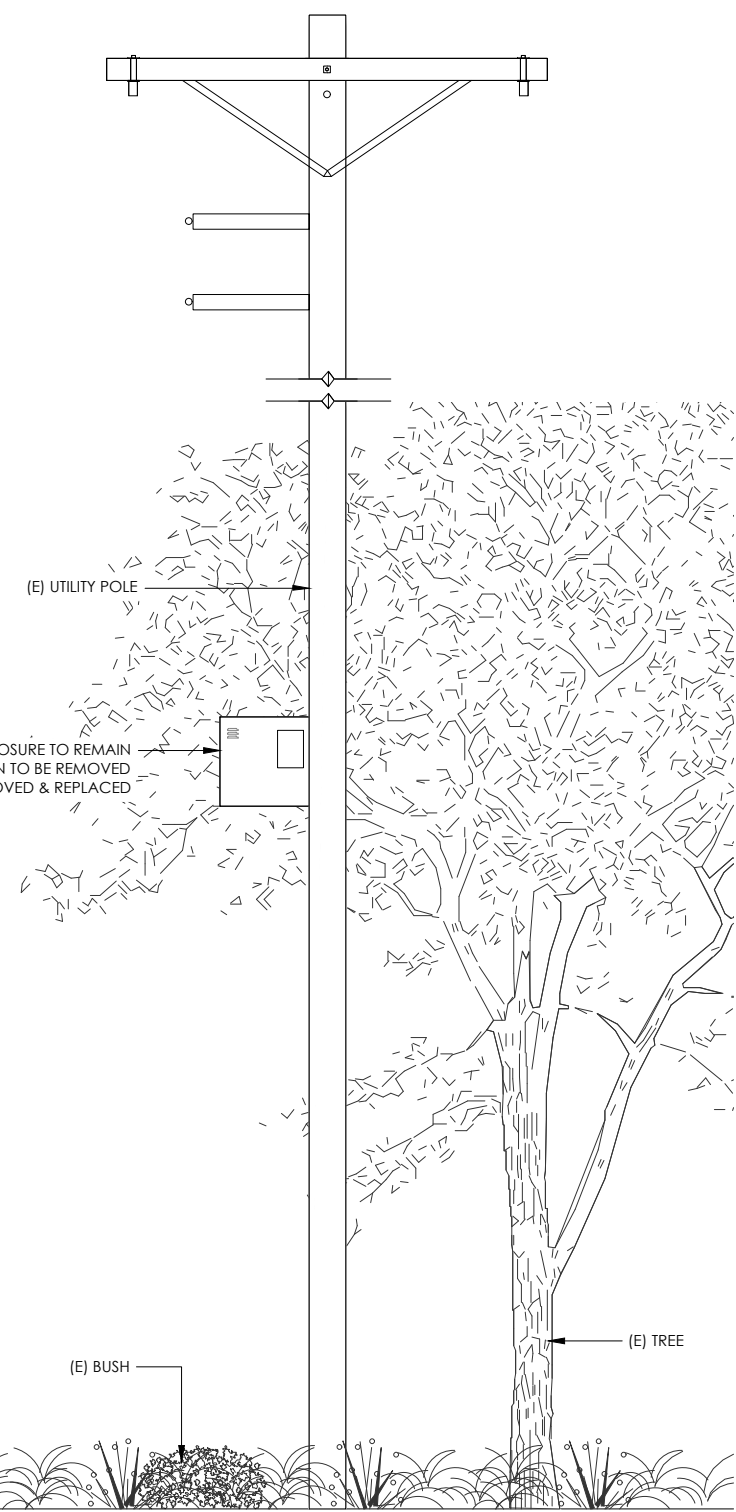
SITE ADDRESS:  
10 MADRONE COURT,  
FAIRFAX CA 94930

SHEET TITLE:  
**ENLARGED  
SITE PLANS**

**A0**

CONDUIT ROUTING NOTE:  
 1. GC TO ROUTE (N) 1-1/2" RIGID U/G CONDUIT FROM (N) CABINETS 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.



EXISTING ELEVATION

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

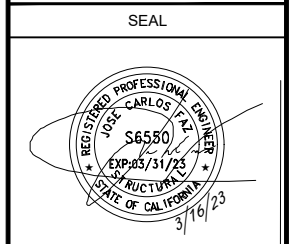
PROPOSED ELEVATION

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



**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/21/21	90% CD	BN
0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ



SITE INFORMATION

SITE ADDRESS:  
 10 MADRONE COURT,  
 FAIRFAX CA 94930

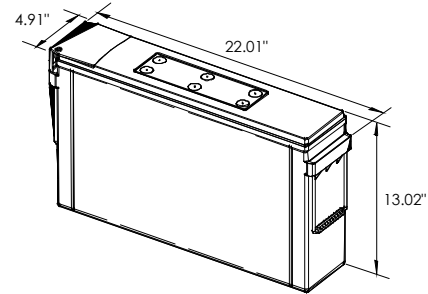
SHEET TITLE:  
**ELEVATIONS**

**A1**





ALPHA  
210 FTX BATTERY UNIT



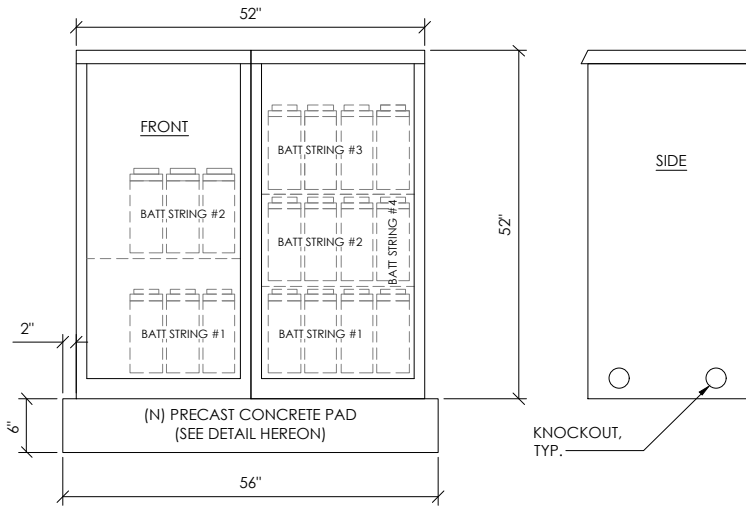
EQUIPMENT SPECIFICATIONS (1 UNIT)

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	18	12	210	2.52	45.36			2.1	37.8
TOTAL		18				45.36	70	CFC 2019 SECTION 1206 DOES NOT APPLY		37.8

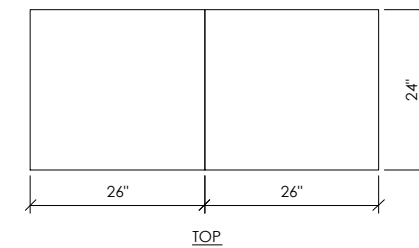
7 BATTERY SPECIFICATIONS  
N.T.S.



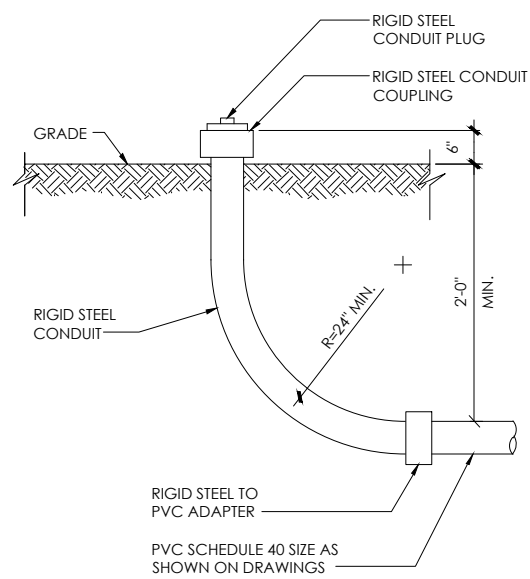
CABINET SPECIFICATIONS

MANUFACTURER:	ALPHA
MODEL:	PN-4
HEIGHT:	52"
WIDTH:	26"
DEPTH:	24"
WEIGHT (EMPTY):	360 LBS.
WEIGHT (W/ BATTERIES):	2,970 LBS.
MATERIAL:	ALUMINUM

BATTERY CONFIGURATION:  
CABINET #1: (4) BATTERY STRINGS  
CABINET #2: (2) BATTERY STRINGS



1 DUAL EQUIPMENT CABINET DETAIL  
N.T.S.



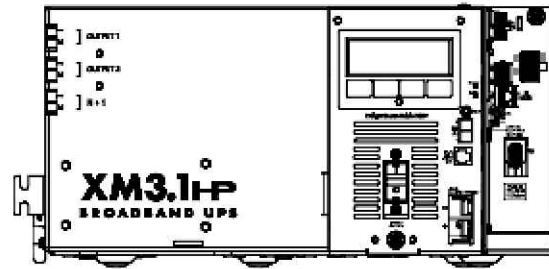
8 STUB-UP DETAIL  
N.T.S.

NOTE:  
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

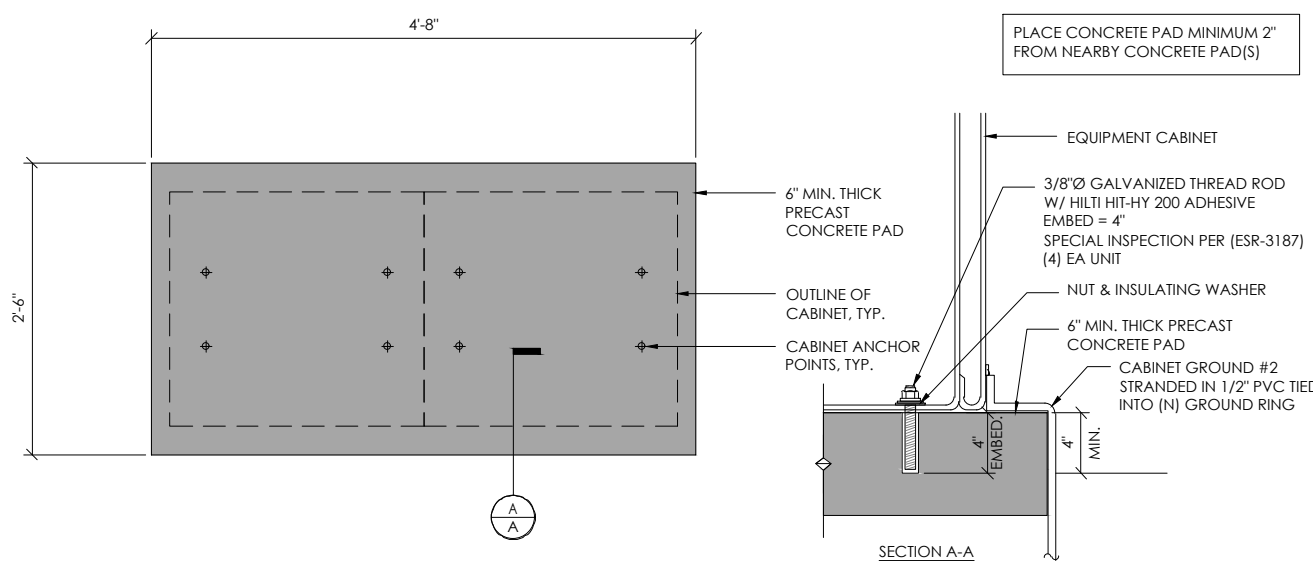
NOMINAL INPUT VOLTAGE: 120V AC  
OUTPUT VOLTAGE: 63/89V AC

EQUIPMENT SPECIFICATIONS

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

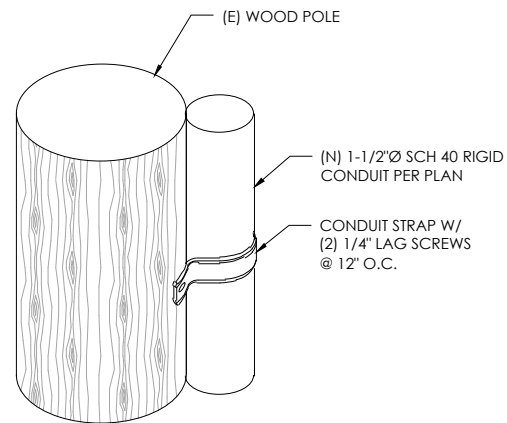


5 POWER SUPPLY DETAIL  
N.T.S.



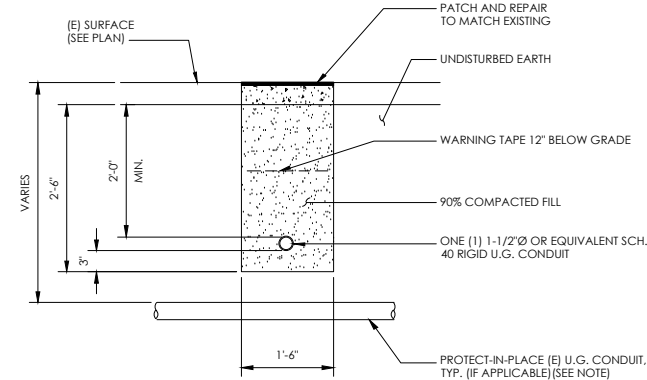
2 CONCRETE PAD & ANCHORAGE DETAIL  
N.T.S.

NOTE:  
1. CONTRACTOR TO VERIFY RISER MOUNTING REQUIREMENTS W/ POLE OWNER AND/OR POWER COMPANY



9 CONDUIT RISER ATTACHMENT DETAIL  
N.T.S.

NOTE:  
1. 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.

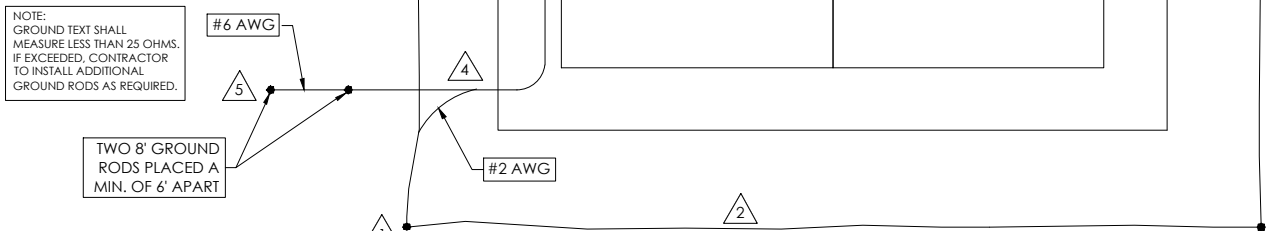


6 TRENCHING DETAIL  
N.T.S.

- LIGHTNING PROTECTION (OPTIONAL)
- 1/2"x6" 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.



3011 COMCAST PLACE  
LIVERMORE, CA 94551



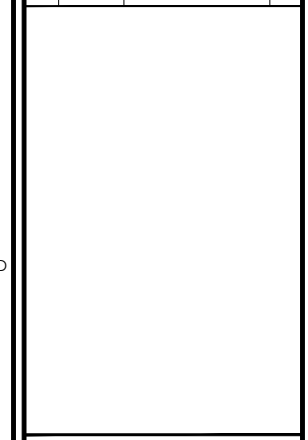
3767 ALPHA WAY  
BELLINGHAM, WA 98226



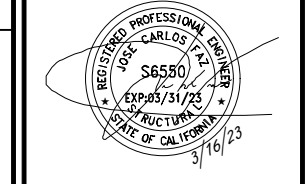
23 MAUCHLY, STE 110  
IRVINE, CA 92618  
JS PROGRAM ID: ALP-CA-CPUC  
JS PROJECT ID: P-061501

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/21/21	90% CD	BN
0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ



SEAL



SITE INFORMATION

SITE ADDRESS:  
10 MADRONE COURT,  
FAIRFAX CA 94930

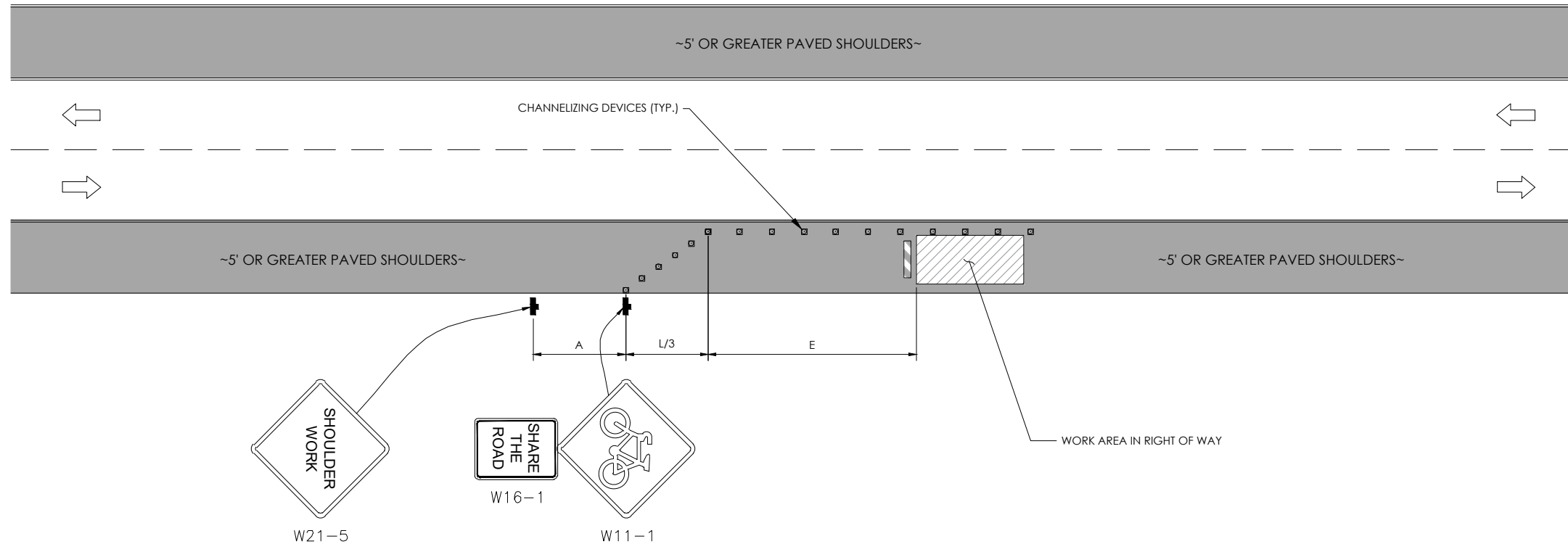
SHEET TITLE:  
DETAILS

D1

# TRAFFIC CONTROL FOR WORK ON SHOULDERS - RESIDENTIAL AREA

## WORK AREA TRAFFIC CONTROL HANDBOOK 2019 14TH EDITION

PER STANDARDS AND GUIDANCE OF CA-MUTCD



**GENERAL NOTES:**

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA 2010 STANDARD PLAN A20A.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE..
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ADJUTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE THE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC., FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
15. DIMENSIONS BASED ON GIS MAPPING DATA AND/OR RECORD DRAWINGS AND NOT A SURVEY.
16. TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
17. ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.

SPEED MPH (2)	DIMENSION A/B/C ADVANCE WARNING SIGN SPACING (5)	DIMENSION L MARGIN TAPER LENGTH	DIMENSION L/2 SHIFTING TAPER LENGTH	DIMENSION L/3 MINIMUM SHOULDER TAPER	DIMENSION "E" BUFFER SPACE (4 A) AND FLAGGER STATION STOPPING SIGHT DISTANCE (4 B) (0%) (3%) (6%)	MAXIMUM CHANNELIZER TAPER SPACING (3)	MAXIMUM CHANNELIZER TANGENT SPACING (3)	MAXIMUM CHANNELIZER CONFLICT SPACING (5)	
MPH	FT	ft	ft	ft	ft	ft	ft	ft	
25	100	125	65	45	(15.5) (16.0) (13.5)	25	50	12	
30	250	180	90	60	(20.0) (20.5) (21.5)	30	60	15	
35	250	245	125	85	(25.0) (26.0) (27.5)	35	70	17	
40	250	320	160	110	(30.5) (31.5) (33.5)	40	80	20	
45	350	540	270	180	(36.0) (38.0) (40.0)	45	90	22	
50	350	600	300	200	(42.5) (45.0) (47.5)	50	100	25	
55	500	660	330	220	(49.5) (52.0) (55.5)	50	100	25	
60	500	720	360	240	(57.0) (60.0) (64.0)	50	100	25	
65	500	780	390	260	(64.5) (68.5) (73.0)	50	100	25	
1	WORK ON FREEWAYS AND EXPRESSWAYS SHALL MEET THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATION REQUIREMENTS								
2	POSTED SPEED OR OBSERVED OPERATION SPEED (WHICHEVER IS GREATER)								
3	CHANNELIZER SPACING SHALL BE REDUCED BY HALF AT AREAS WHERE WORK IS TAKING PLACE ON CURVES OR AREAS OF HEAD-ON CONFLICT								
4 A	BUFFER SPACE MAY BE INSERTED IN LOW SPEED URBAN AREAS AND SHOULD BE INSERTED IN HIGH SPEED URBAN AND RURAL AREAS								
4 B	THE STOPPING SIGHT DISTANCE SHOULD ENABLE ROAD USERS TO SEE THE PRIMARY FLAGGER STATION AND SAFELY STOP								
5	SIGN SPACING IN RURAL AREAS SHOULD BE 500 FT								
6	** TABLE 6F 10.1 (CA)								



3011 COMCAST PLACE  
LIVERMORE, CA 94551



3767 ALPHA WAY  
BELLINGHAM, WA 98226



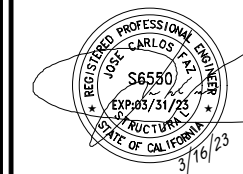
23 MAUCHLY, STE 110  
IRVINE, CA 92618

JS PROGRAM ID: ALP-CA-CPUC  
JS PROJECT ID: P-061501

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/21/21	90% CD	BN
0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ

SEAL



SITE INFORMATION

SITE ADDRESS:  
10 MADRONE COURT,  
FAIRFAX CA 94930

SHEET TITLE:

**DETAILS**

**TC1**





**AE TA4 SCOPE OF WORK**

THIS PROJECT MODIFICATION OF EXISTING CONSISTS OF:

- INSTALLATION OF (2) (N) ALPHA PN-4 POWERNODE SYSTEM ENCLOSURE
- INSTALLATION OF (18) (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



**SITE ADDRESS:**  
23 WILLOW AVE  
FAIRFAX, CA 94930

**SITE INFORMATION**

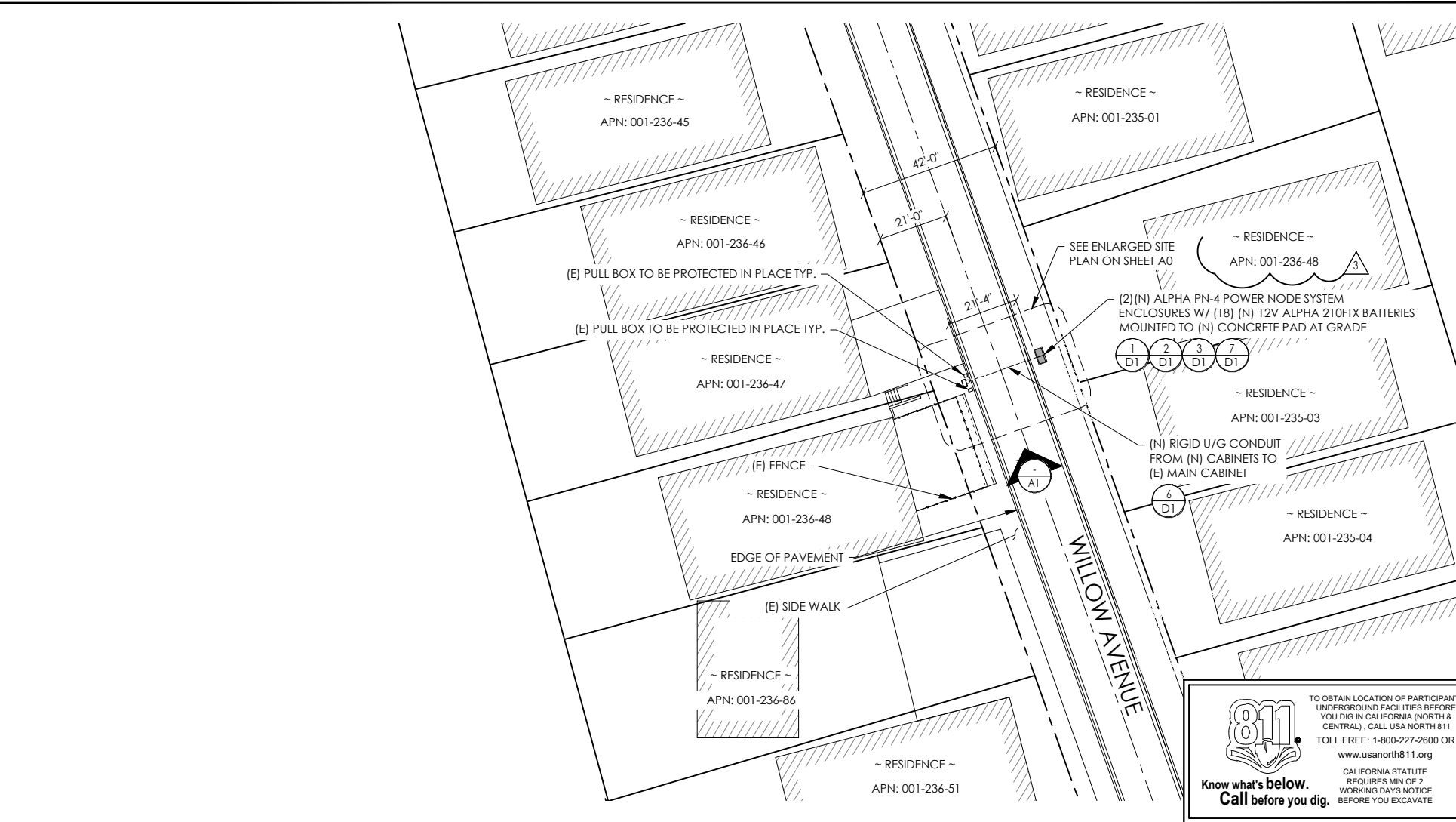
SITE ADDRESS:	23 WILLOW AVE FAIRFAX, CA 94930
LATITUDE/LONGITUDE (NAD 83):	37.9873748, -122.5825741
JURISDICTION:	Town of Fairfax
POWER PROVIDER:	PGT
AMP DRAW:	5.10



**J5 INFRASTRUCTURE**  
23 MAUCHLY, STE 110  
IRVINE, CA 92618  
J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-061500

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/17/21	90% CD	AS
B	09/21/21	90% CD	TT
0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ



**DRAWING INDEX**

SHEET	DESCRIPTION
T1	TITLE SHEET AND SITE PLAN
LS1	LAND SURVEY
A0	ENLARGED SITE PLANS
A1	ELEVATIONS
D1	DETAILS
TC1	TRAFFIC CONTROL 1

**PROJECT TEAM**

**OWNER:** COMCAST CABLE  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**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**

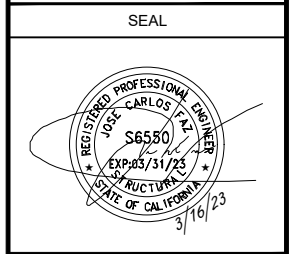
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. CALIFORNIA BUILDING STANDARDS CODE: 2019 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2020.	PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
PART 1 - CALIFORNIA ADMINISTRATIVE CODE	PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE	PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE	PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN)
PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE	PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE	2. ANSITIA-222 (REV H)
PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE	3. 2018 NFPA 101, LIFE SAFETY CODE
PART 6 - CALIFORNIA ENERGY CODE	4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
PART 7 - VACANT	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.



**SITE INFORMATION**

**SITE ADDRESS:**  
23 WILLOW AVE,  
FAIRFAX, CA 94930

**SHEET TITLE:**  
**TITLE SHEET**

**T1**

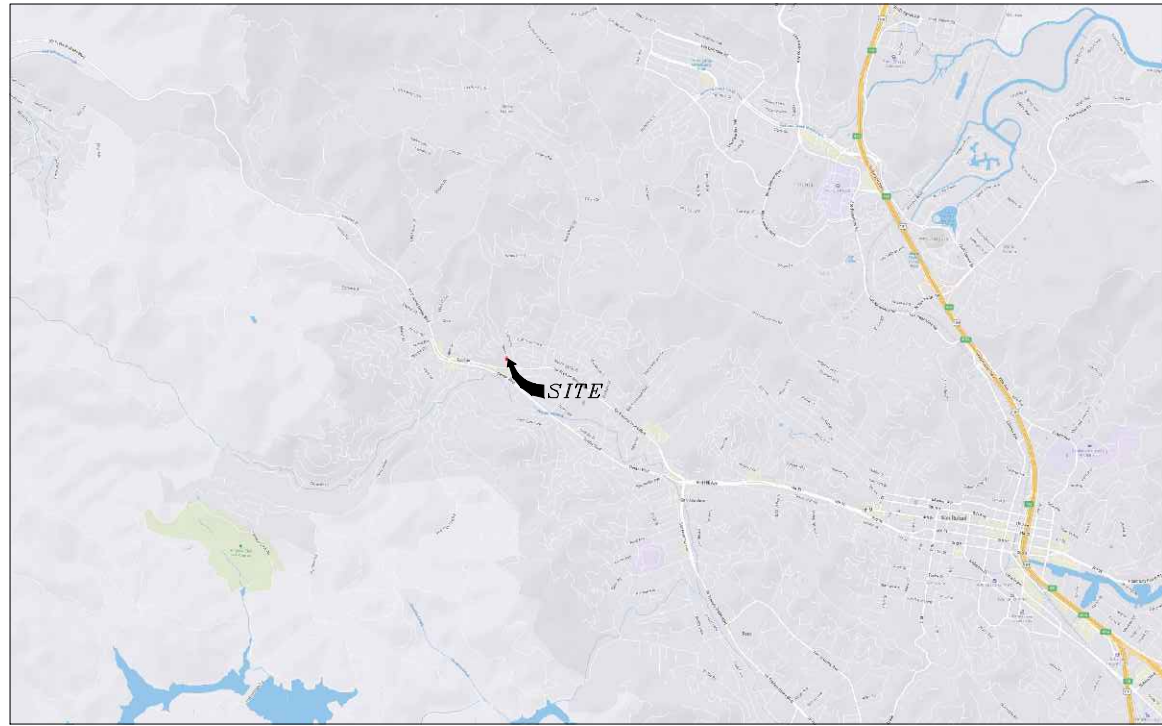
**SITE PLAN**

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

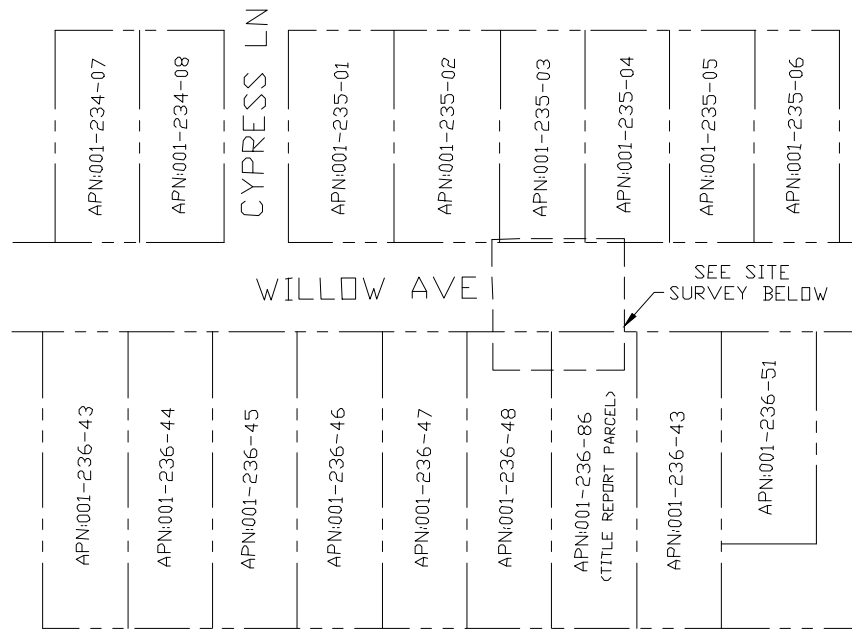
TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN CALIFORNIA (NORTH & CENTRAL), CALL USA NORTH 811  
TOLL FREE: 1-800-227-2600 OR www.usanorth811.org  
CALIFORNIA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

Know what's below. Call before you dig.





VICINITY MAP  
N.T.S.



OVERALL SITE  
N.T.S.

**SURVEY DATE**  
01/24/2023

**BASIS OF BEARING**  
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE ZONE THREE, DETERMINED BY GPS OBSERVATIONS.

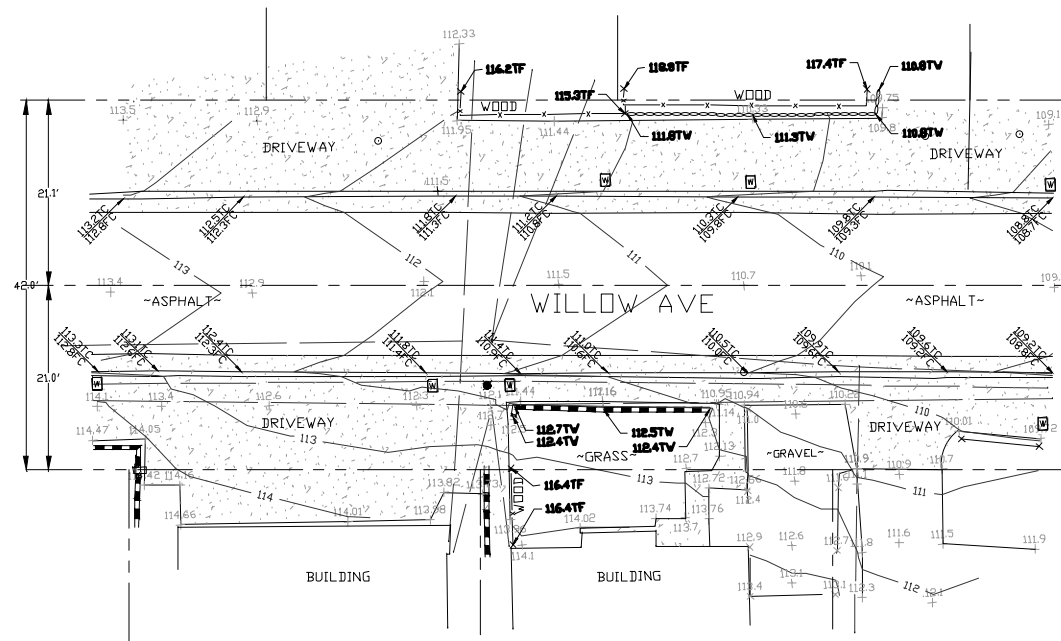
**BENCHMARK**  
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS "GEOID 18" MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY OBSERVATIONS OF THE "CRTN" REAL TIME NETWORK. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

**FLOOD\_ZONE**  
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD\_ZONE "X". ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #06041C04522, DATED 03/17/2014.

**UTILITY NOTES**  
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT 811 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/ OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**SURVEYOR'S NOTE**  
THE LOCATION AND DIMENSIONS SHOWN WERE TAKEN FROM THE MAP(S) RECORDED IN VOLUME 2 PAGE 80 OF MAPS AND BOOK 2301 PAGE 68 OF RECORDS OF SURVEYS, MARIN COUNTY RECORDER, AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTIES.

**TITLE REPORT DESCRIPTION**  
TITLE REPORT PARCEL  
APN:001-236-86  
PREPARED USING AMERICAN TITLE'S TITLE REPORT #5028900-6942907 DATED 01/11/2023;



- LEGEND**  
These standard symbols will be found in the drawing.
- CONCRETE
  - PROPERTY LINE
  - CENTER LINE
  - OVERHEAD LINE
  - CHAINLINK FENCE
  - ROOF
  - WALL
  - ROCK WALL
  - WATER METER
  - WATER VALVE
  - POWER POLE
  - ELEVATION GRADE
  - GUY WIRE
  - MAILBOX
  - WATER METER
  - SIGN NO STOPPING
  - MANHOLE TELE
  - MANHOLE UTILITY
  - RECTANGLE INLET
  - SHRUB
  - TRUNK
  - CT CONIFEROUS TREE
  - DC DECIDUOUS TREE
  - TC TOP OF CURB
  - FC FACE OF CURB
  - TF TOP OF FENCE
  - TW TOP OF WALL

SITE SURVEY

**COMCAST**  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**ALPHA**  
3767 ALPHA WAY  
BELLINGHAM, WA 98226

Eaton Land Surveying, Inc.  
15604 Magnolia Rd.  
Grass Valley, CA. 95949  
Ph. 530.830.0038

DRAWN BY: HE  
CHECKED BY: SE

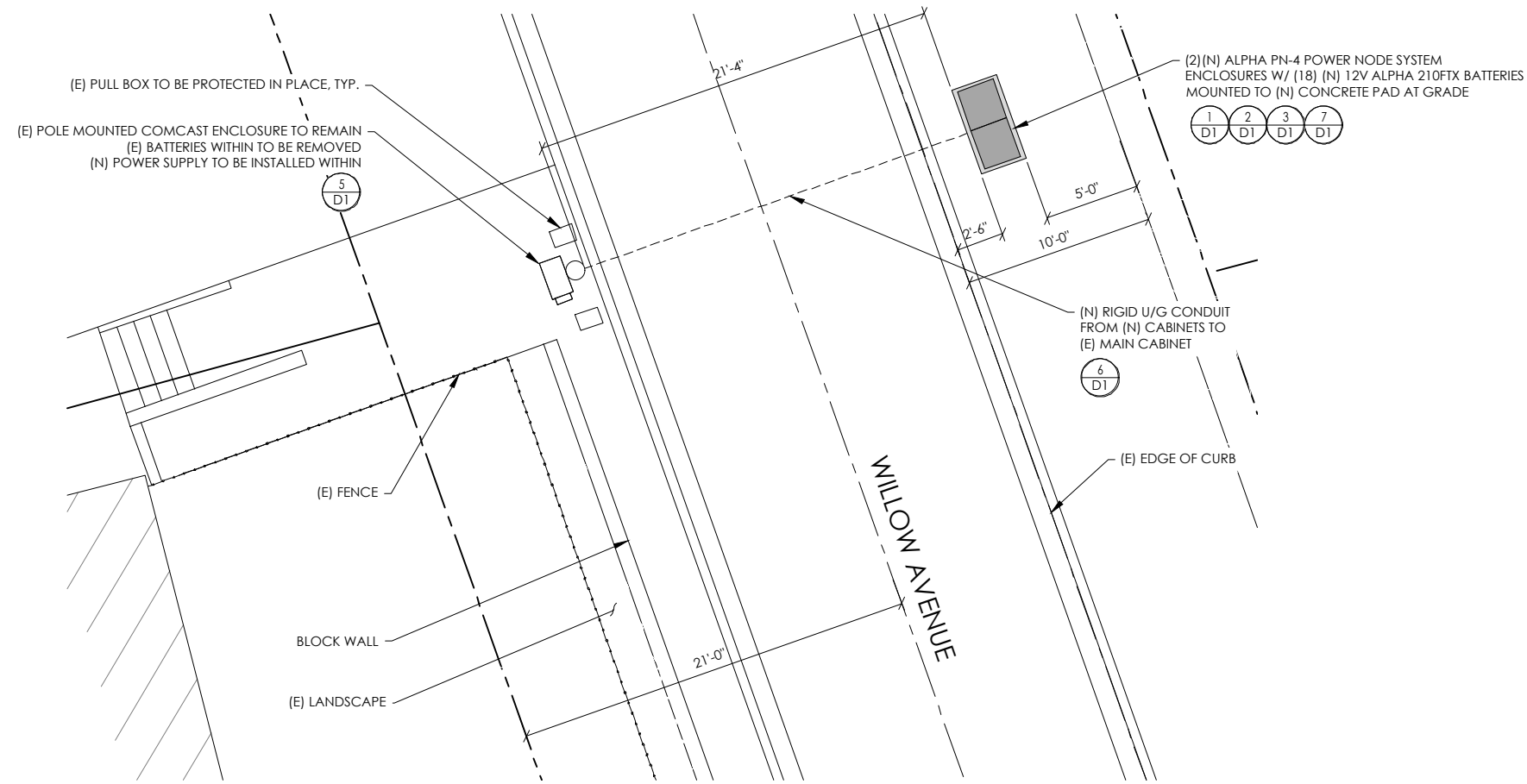
REVISIONS:		
REV	DATE	DESCRIPTION
0	01/28/23	SUBMITTAL

SHAWN M. EATON #8644  
STATE OF CALIFORNIA  
EXP. 12/31/23

PROJECT INFORMATION:  
**P-061500**  
23 WILLOW AVE.  
FAIRFAX, CA. 94930  
MARIN COUNTY

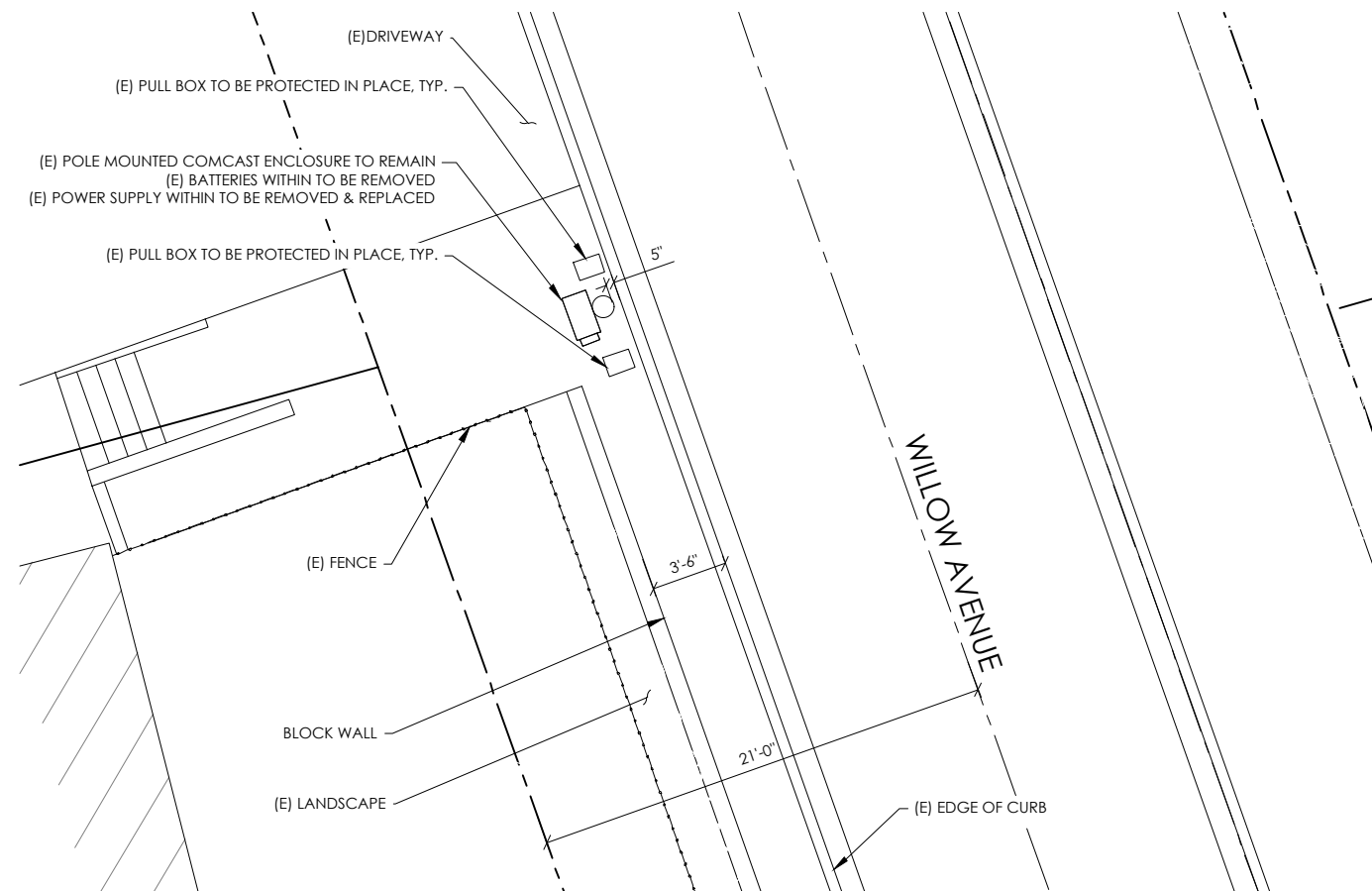
SHEET TITLE:  
**SITE SURVEY**

SHEET NUMBER:  
**LS-1**



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



EXISTING ENLARGED SITE PLAN

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



3011 COMCAST PLACE  
 LIVERMORE, CA 94551



3767 ALPHA WAY  
 BELLINGHAM, WA 98226

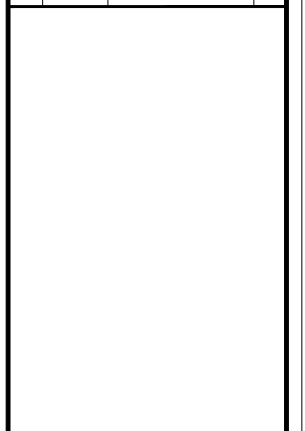


23 MAUCHLY, STE 110  
 IRVINE, CA 92618

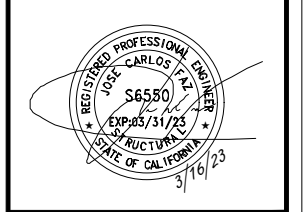
J5 PROGRAM ID: ALP-CA-CPUC  
 J5 PROJECT ID: P-061500

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/17/21	90% CD	AS
B	09/21/21	90% CD	TT
0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ



SEAL

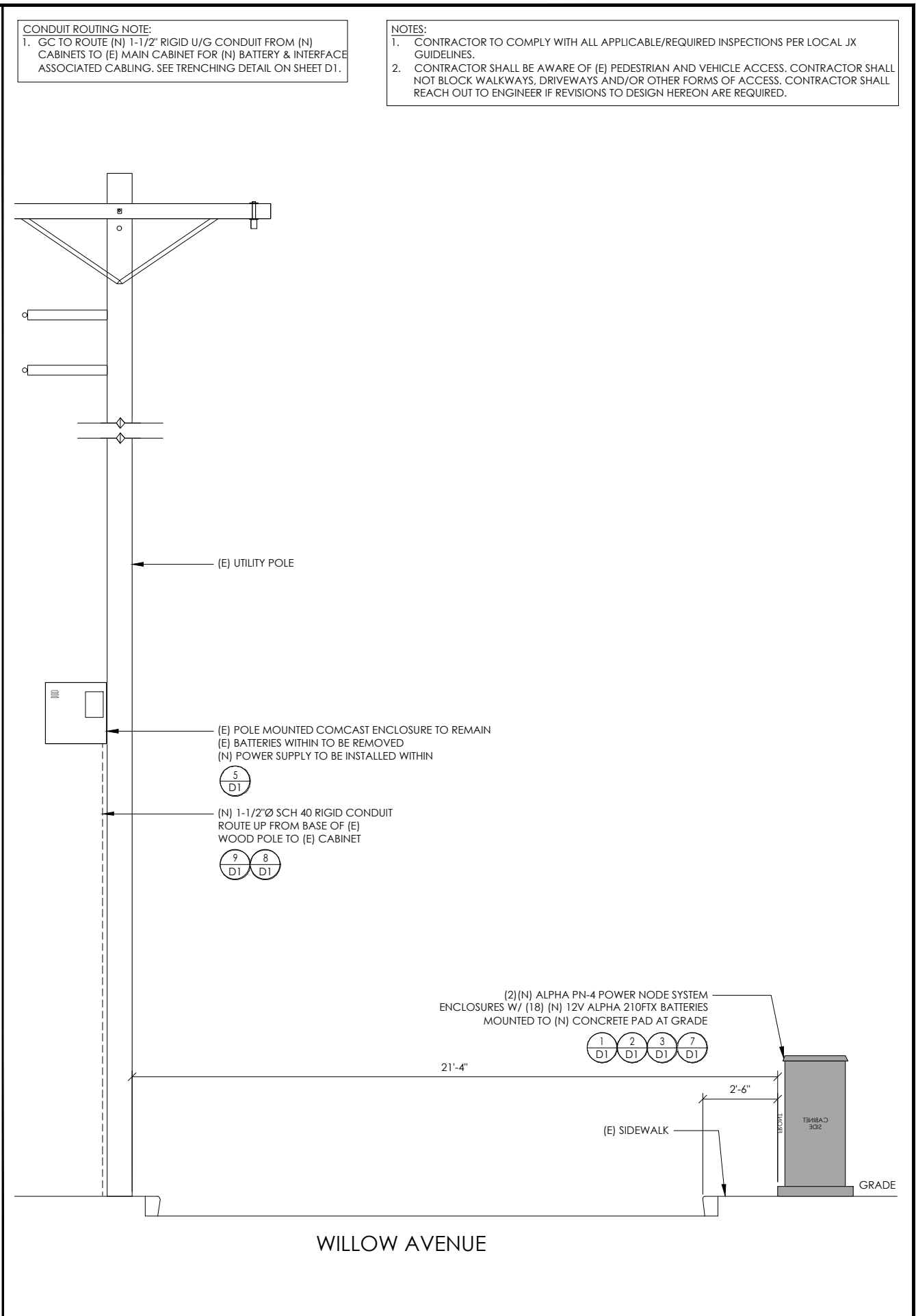
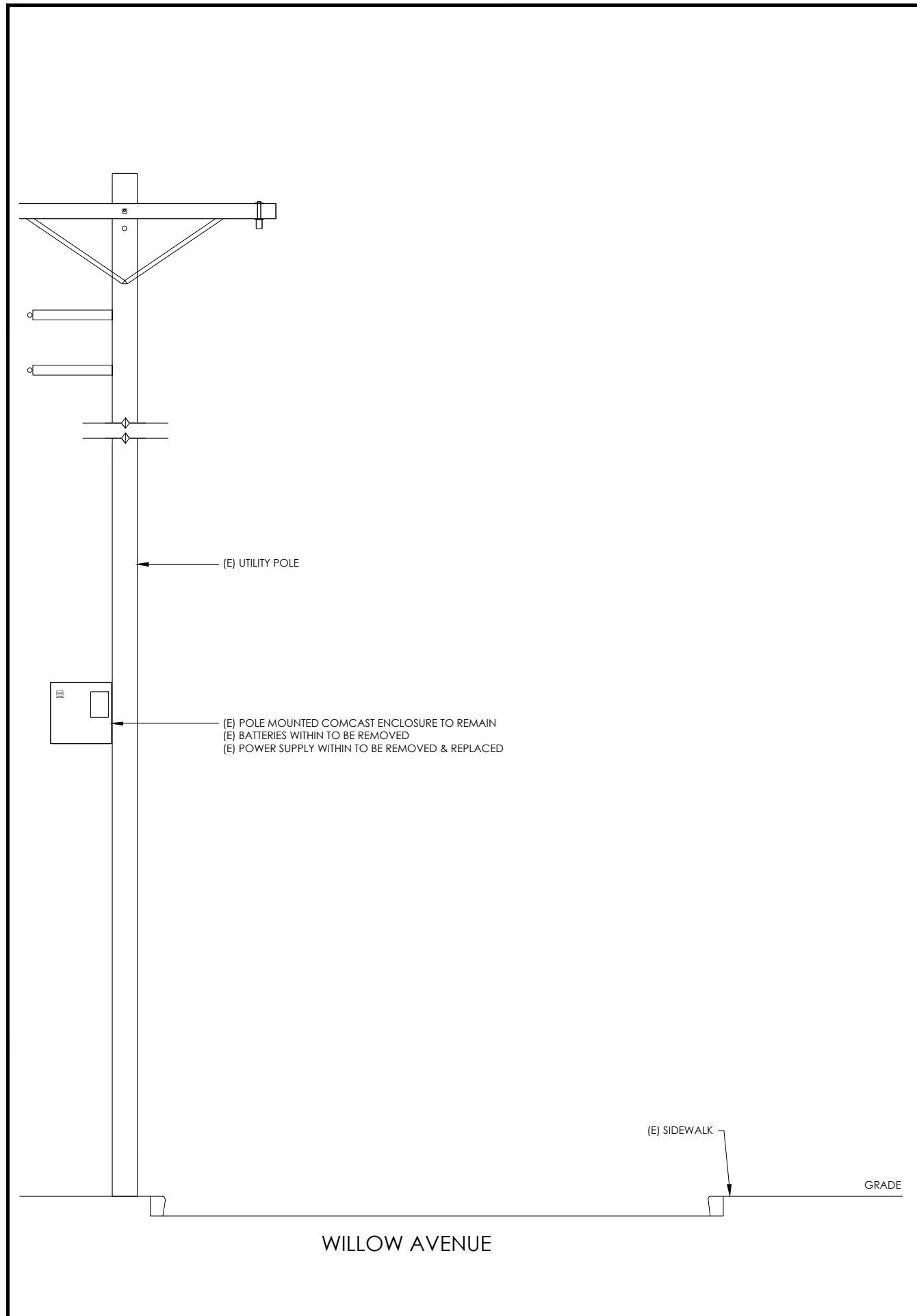


SITE INFORMATION

SITE ADDRESS:  
 23 WILLOW AVE.  
 FAIRFAX, CA 94930

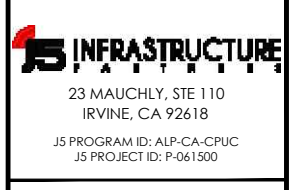
SHEET TITLE:  
**ENLARGED  
 SITE PLANS**

**A0**

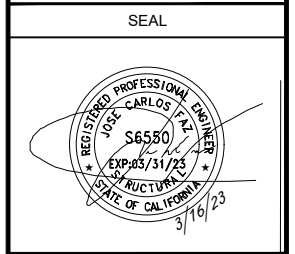
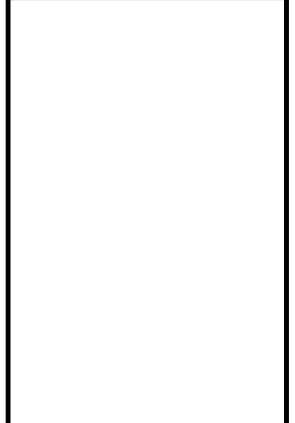


CONDUIT ROUTING NOTE:  
 1. GC TO ROUTE (N) 1-1/2" RIGID U/G CONDUIT FROM (N) CABINETS TO (E) MAIN CABINET FOR (N) BATTERY & INTERFACE ASSOCIATED CABLING. SEE TRENCHING DETAIL ON SHEET D1.

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.



ISSUE STATUS			
REV	DATE	DESCRIPTION	BY
A	09/17/21	90% CD	AS
B	09/21/21	90% CD	TT
0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ



SITE INFORMATION

SITE ADDRESS:  
 23 WILLOW AVE,  
 FAIRFAX, CA 94930

SHEET TITLE:  
**ELEVATIONS**

**A1**

EXISTING ELEVATION

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

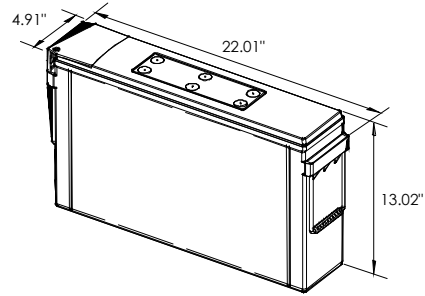
PROPOSED ELEVATION

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





ALPHA  
210 FTX BATTERY UNIT

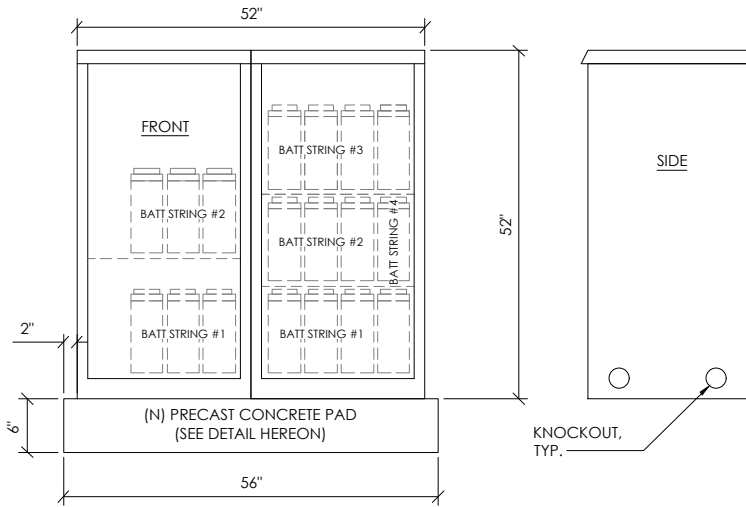


EQUIPMENT SPECIFICATIONS (1 UNIT)	
MFG:	ALPHA
MODEL:	210 FTX
HEIGHT:	13.02 IN
WIDTH:	4.91 IN
LENGTH:	22.01 IN
WEIGHT:	145 LBS

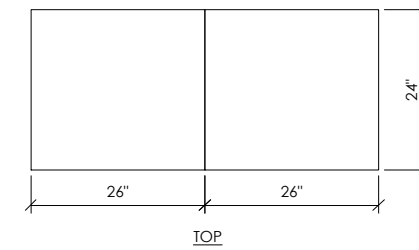
**BATTERY INFORMATION (VRLA TYPE BATTERIES)**

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	18	12	210	2.52	45.36			2.1	37.8
TOTAL		18				45.36	70	CFC 2019 SECTION 1206 DOES NOT APPLY		37.8

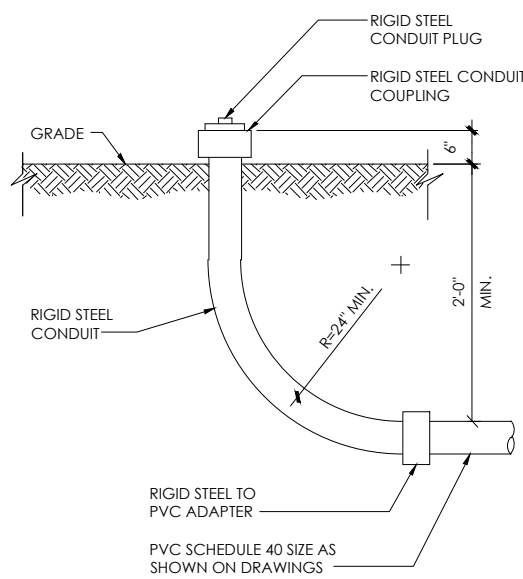
7 BATTERY SPECIFICATIONS  
N.T.S.



CABINET SPECIFICATIONS	
MANUFACTURER:	ALPHA
MODEL:	PN-4
HEIGHT:	52"
WIDTH:	26"
DEPTH:	24"
WEIGHT (EMPTY):	360 LBS.
WEIGHT (W/ BATTERIES):	2,970 LBS.
MATERIAL:	ALUMINUM
BATTERY CONFIGURATION: CABINET #1: (4) BATTERY STRINGS CABINET #2: (2) BATTERY STRINGS	



1 DUAL EQUIPMENT CABINET DETAIL  
N.T.S.

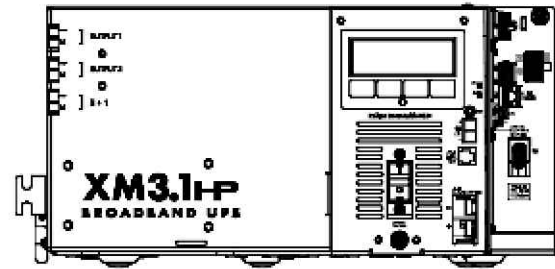


8 STUB-UP DETAIL  
N.T.S.

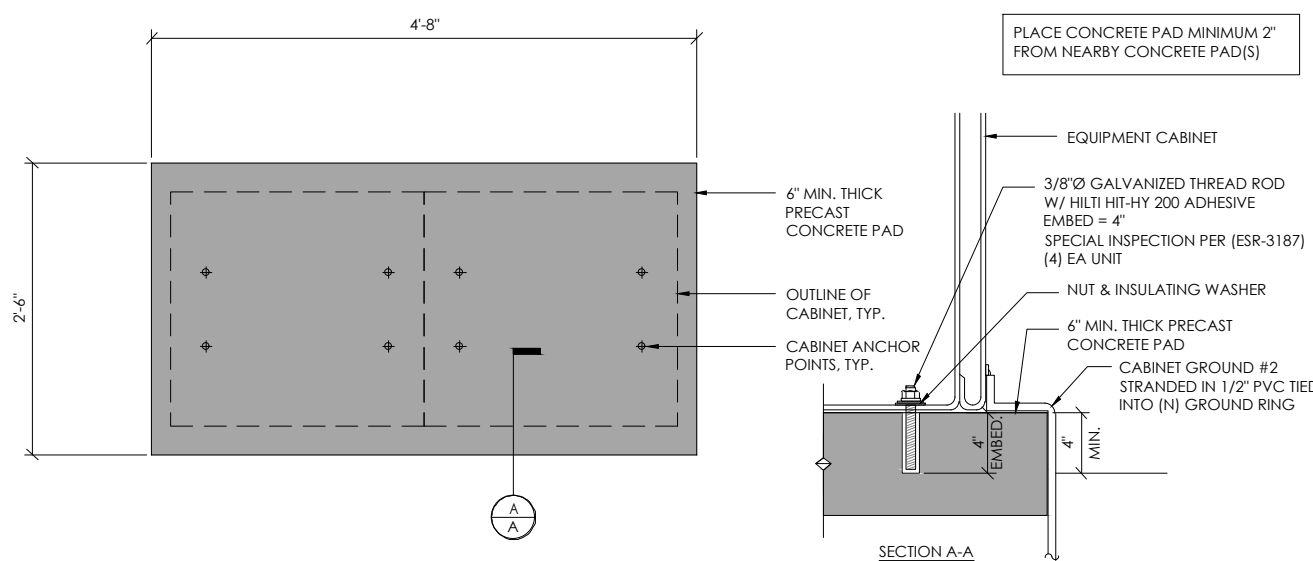
NOTE:  
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

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

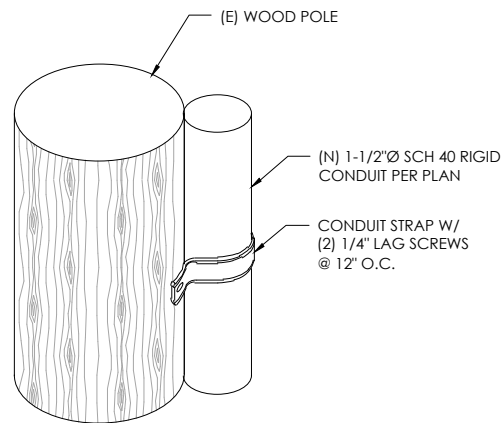


5 POWER SUPPLY DETAIL  
N.T.S.



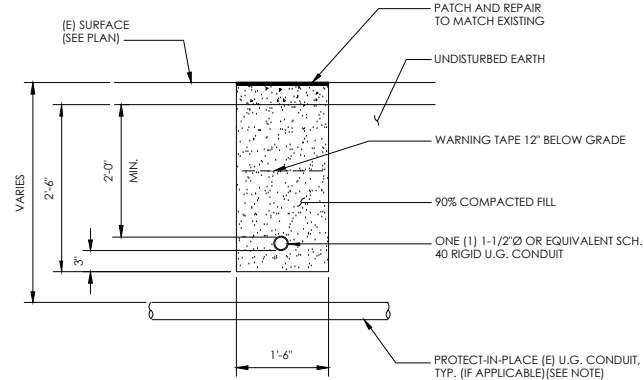
2 CONCRETE PAD & ANCHORAGE DETAIL  
N.T.S.

NOTE:  
1. CONTRACTOR TO VERIFY RISER MOUNTING REQUIREMENTS W/ POLE OWNER AND/OR POWER COMPANY



9 CONDUIT RISER ATTACHMENT DETAIL  
N.T.S.

NOTE:  
1. 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.



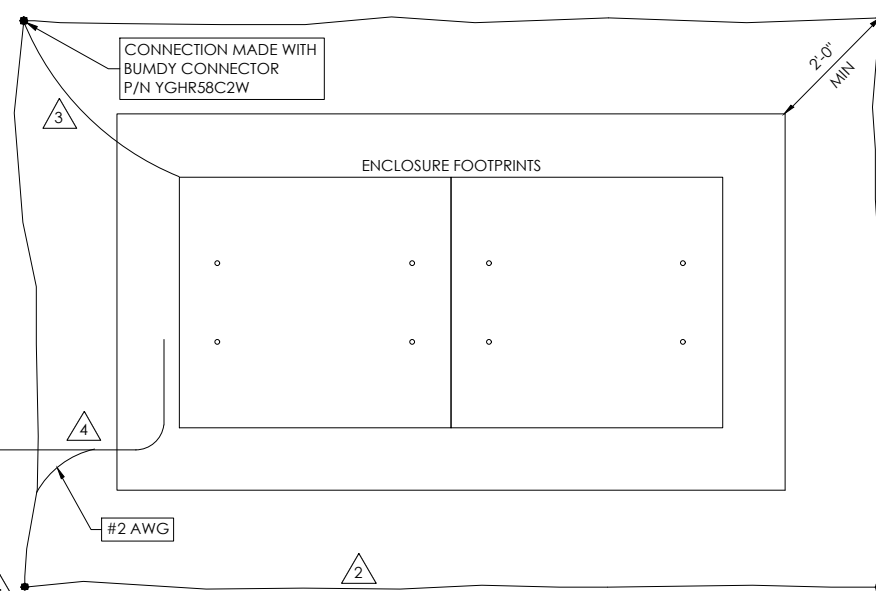
6 TRENCHING DETAIL  
N.T.S.

- LIGHTNING PROTECTION (OPTIONAL)
- 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.



3011 COMCAST PLACE  
LIVERMORE, CA 94551



3767 ALPHA WAY  
BELLINGHAM, WA 98226



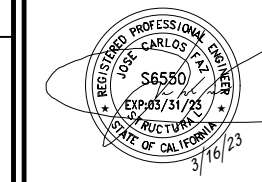
23 MAUCHLY, STE 110  
IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-061500

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/17/21	90% CD	AS
B	09/21/21	90% CD	TT
0	01/04/22	100% CD	BN
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ

SEAL



SITE INFORMATION

SITE ADDRESS:  
23 WILLOW AVE,  
FAIRFAX, CA 94930

SHEET TITLE:

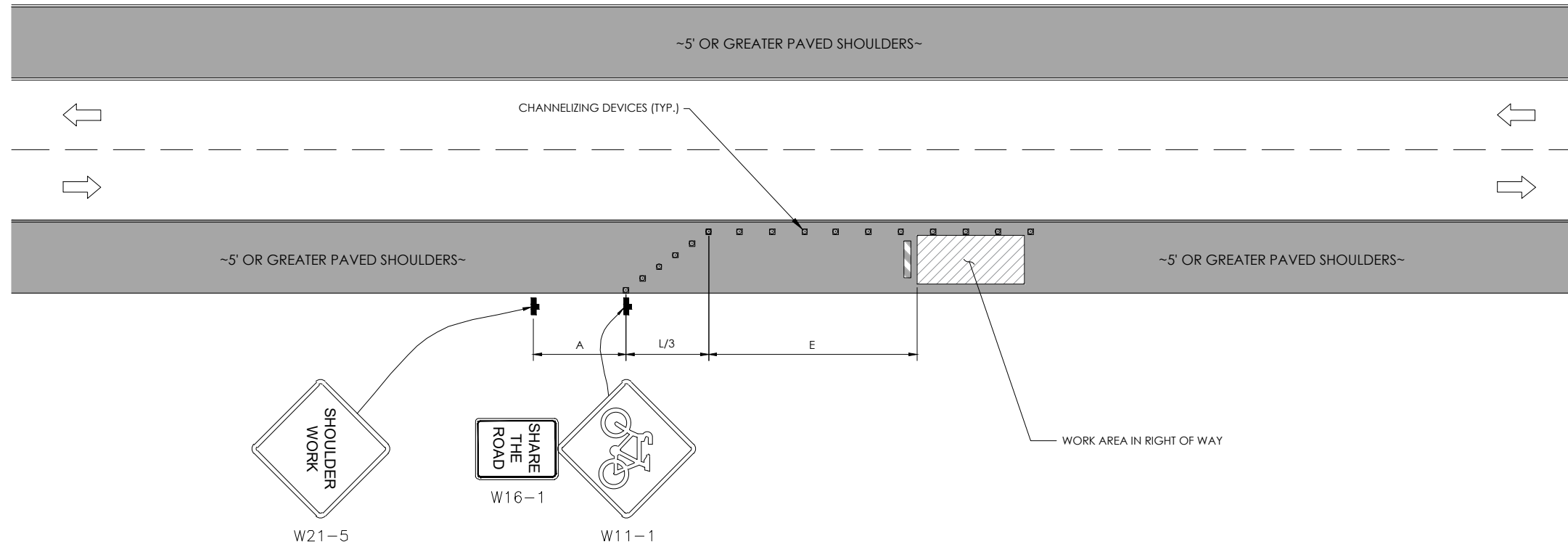
**DETAILS**

**D1**

# TRAFFIC CONTROL FOR WORK ON SHOULDERS - RESIDENTIAL AREA

## WORK AREA TRAFFIC CONTROL HANDBOOK 2019 14TH EDITION

PER STANDARDS AND GUIDANCE OF CA-MUTCD



**GENERAL NOTES:**

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA 2010 STANDARD PLAN A20A.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE..
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE THE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC., FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
15. DIMENSIONS BASED ON GIS MAPPING DATA AND/OR RECORD DRAWINGS AND NOT A SURVEY.
16. TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
17. ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.

SPEED MPH (2)	DIMENSION A/B/C ADVANCE WARNING SIGN SPACING (5)	DIMENSION L MARGIN TAPER LENGTH	DIMENSION L/2 SHIFTING TAPER LENGTH	DIMENSION L/3 MINIMUM SHOULDER TAPER	DIMENSION "E" BUFFER SPACE (4 A) AND FLAGGER STATION STOPPING SIGHT DISTANCE (4 B)			MAXIMUM CHANNELIZER TAPER SPACING (3)	MAXIMUM CHANNELIZER TANGENT SPACING (3)	MAXIMUM CHANNELIZER CONFLICT SPACING (5)
					(0%)	(3%)	(6%)			
25	100	125	65	4.5	(15.5)	(16.0)	(13.5)	25	50	12
30	2.50	180	90	6.0	(20.0)	(20.5)	(21.5)	30	60	15
35	2.50	245	125	8.5	(25.0)	(26.0)	(27.5)	35	70	17
40	2.50	320	160	11.0	(30.5)	(31.5)	(33.5)	40	80	20
45	3.50	540	270	18.0	(36.0)	(38.0)	(40.0)	45	90	22
50	3.50	600	300	20.0	(42.5)	(45.0)	(47.5)	50	100	25
55	5.00	660	330	22.0	(49.5)	(52.0)	(55.5)	50	100	25
60	5.00	720	360	24.0	(57.0)	(60.0)	(64.0)	50	100	25
65	5.00	780	390	26.0	(64.5)	(68.5)	(73.0)	50	100	25
1	WORK ON FREEWAYS AND EXPRESSWAYS SHALL MEET THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATION REQUIREMENTS									
2	POSTED SPEED OR OBSERVED OPERATION SPEED (WHICHEVER IS GREATER)									
3	CHANNELIZER SPACING SHALL BE REDUCED BY HALF AT AREAS WHERE WORK IS TAKING PLACE ON CURVES OR AREAS OF HEAD-ON CONFLICT									
4 A	BUFFER SPACE MAY BE INSERTED IN LOW SPEED URBAN AREAS AND SHOULD BE INSERTED IN HIGH SPEED URBAN AND RURAL AREAS									
4 B	THE STOPPING SIGHT DISTANCE SHOULD ENABLE ROAD USERS TO SEE THE PRIMARY FLAGGER STATION AND SAFELY STOP									
5	SIGN SPACING IN RURAL AREAS SHOULD BE 500 FT									
6	** TABLE 6F 10.1 (CA)									



3011 COMCAST PLACE  
LIVERMORE, CA 94551



3767 ALPHA WAY  
BELLINGHAM, WA 98226

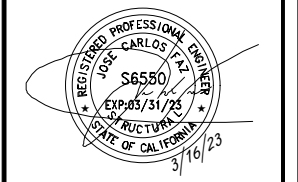


23 MAUCHLY, STE 110  
IRVINE, CA 92618  
J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-061500

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/17/21	90% CD	AS
B	09/21/21	90% CD	TT
0	01/04/22	100% CD	BN
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2	05/05/22	PCC # 2	IK
3	03/16/23	PCC # 3	MZ

SEAL



SITE INFORMATION

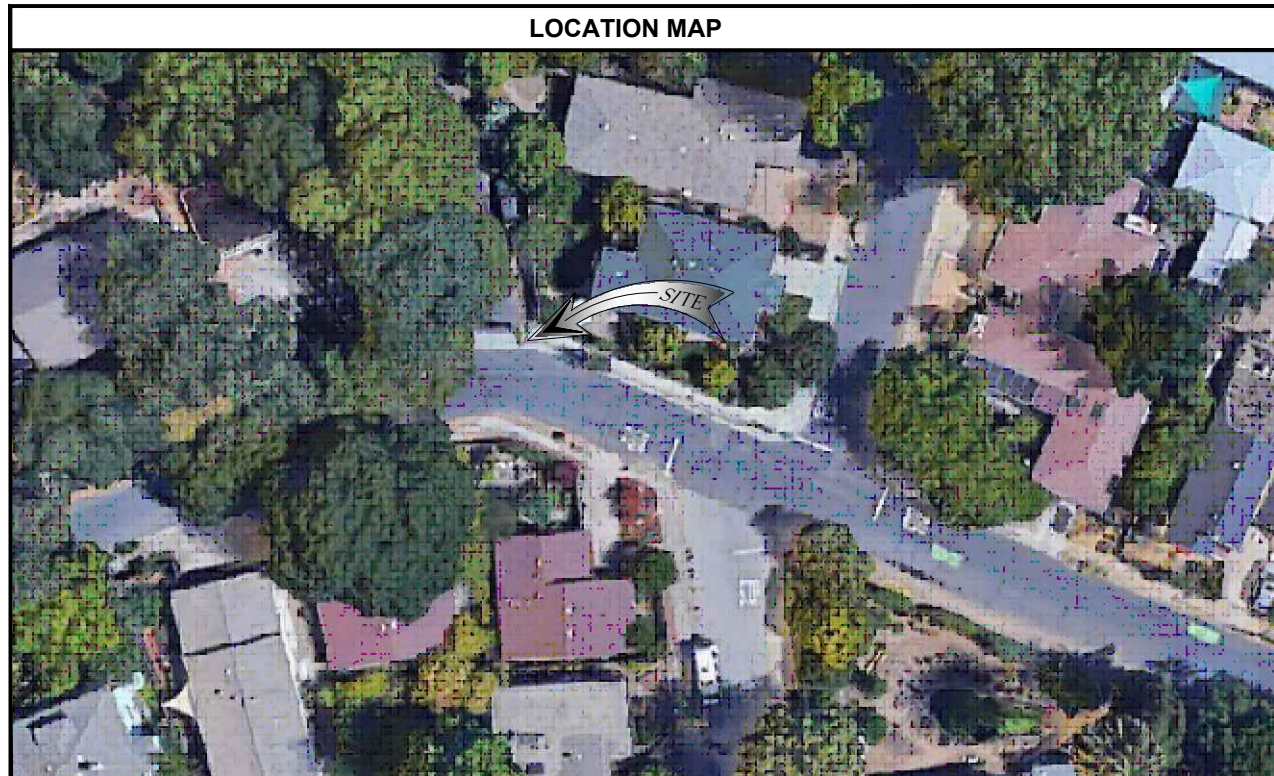
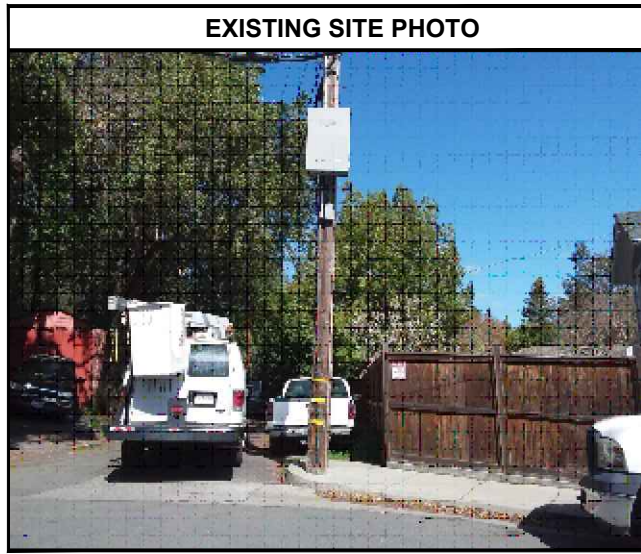
SITE ADDRESS:  
23 WILLOW AVE,  
FAIRFAX, CA 94930

SHEET TITLE:

**DETAILS**

**TC1**





**AE TA3 SCOPE OF WORK**

THIS PROJECT MODIFICATION OF EXISTING CONSISTS OF:

- INSTALLATION OF (2) (N) ALPHA PN-4 POWERNODE SYSTEM ENCLOSURES
- INSTALLATION OF (18) (N) 12V ENERSYS SBS 190 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



**SITE ADDRESS:**  
**76 MANOR ROAD**  
**FAIRFAX, CA 94930**

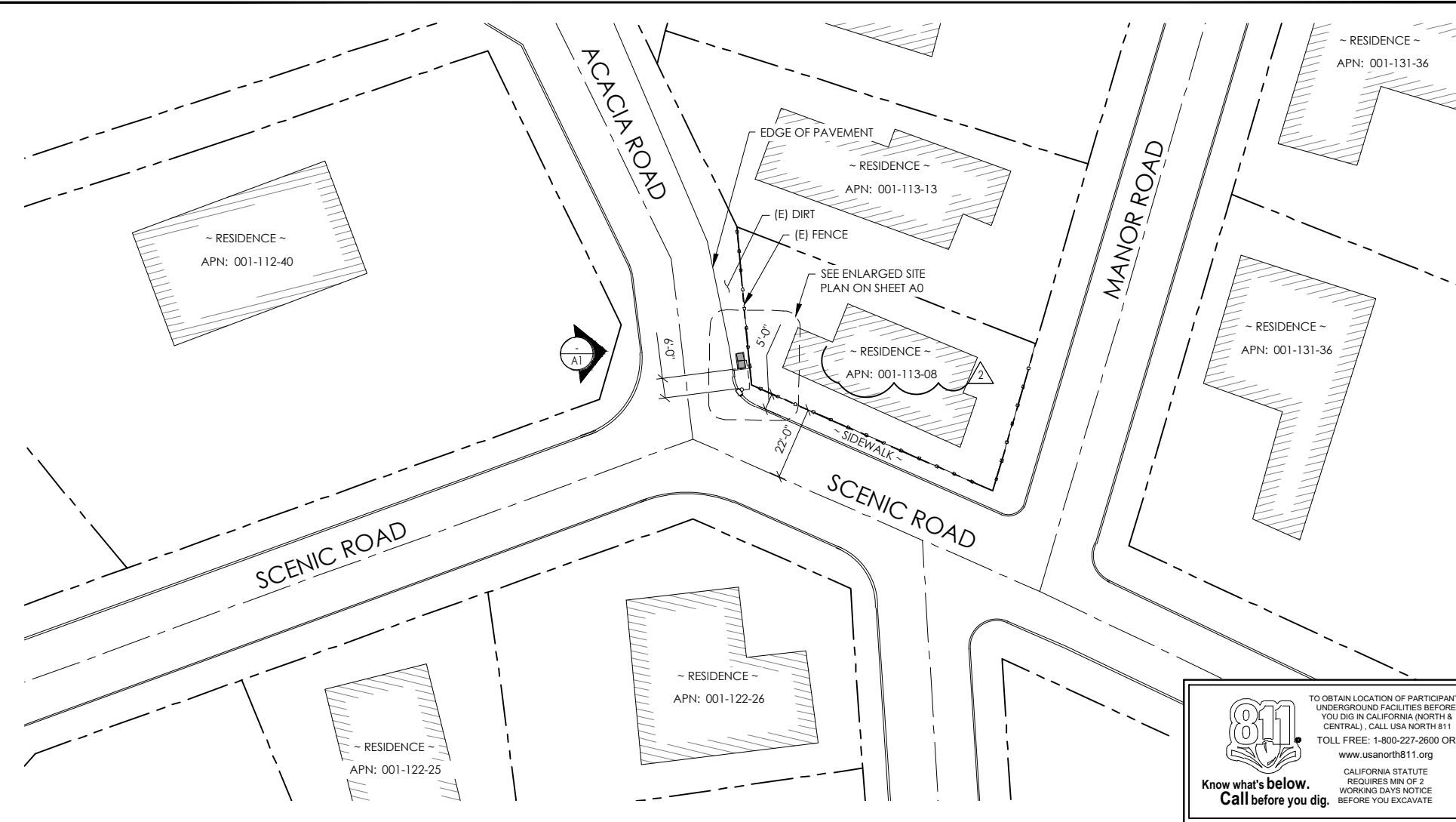
**SITE INFORMATION**

SITE ADDRESS:	76 MANOR ROAD FAIRFAX, CA 94930
LATITUDE/LONGITUDE (NAD 83):	37.99073374, -122.595378
JURISDICTION:	TOWN OF FAIRFAX
POWER PROVIDER:	PG&E
AMP DRAW:	4.60



**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/20/21	90% CD	FR
B	09/27/21	90% CD	JW
0	01/10/22	100% CD	CG
1	05/04/22	PCC#1	IK
2	03/16/23	PCC#2	MZ



**DRAWING INDEX**

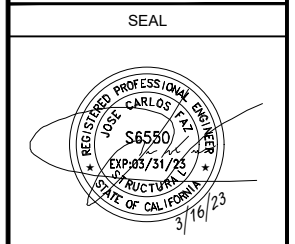
SHEET	DESCRIPTION
T1	TITLE SHEET AND SITE PLAN
LS1	LAND SURVEY
A0	ENLARGED SITE PLANS
A1	ELEVATIONS
D1	DETAILS
TC1	TRAFFIC CONTROL

**PROJECT TEAM**

**OWNER:** COMCAST CABLE  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**ENGINEER/ARCHITECT:** JS INFRASTRUCTURE PARTNERS  
JOSE M. MIRANDA  
ARCHITECT/ENGINEER CONTACT  
PH: (949) 247-7767  
EMAIL: jmiranda@jisp.com  
23 MAUCHLY, SUITE 110  
IRVINE, CALIFORNIA, 92618

**APPLICANT:** ALPHA TECHNOLOGIES, INC.  
JOHN CLAY  
SERVICE OPERATIONS MANAGER  
ENERGY SYSTEMS AMERICAS  
PH: (480) 220-1786  
EMAIL: jclay@alpha.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 8 - CALIFORNIA HISTORICAL BUILDING CODE
PART 1 - CALIFORNIA ADMINISTRATIVE CODE	PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE	PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE	PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN)
PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE	PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE	2. ANSITIA-222 (REV H)
PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE	3. 2018 NFPA 101, LIFE SAFETY CODE
PART 6 - CALIFORNIA ENERGY CODE	4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
PART 7 - VACANT	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.

**SITE INFORMATION**

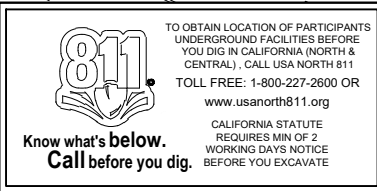
**SITE ADDRESS:**  
**76 MANOR ROAD,**  
**FAIRFAX, CA 94930**

**SHEET TITLE:**  
**TITLE SHEET**

**T1**

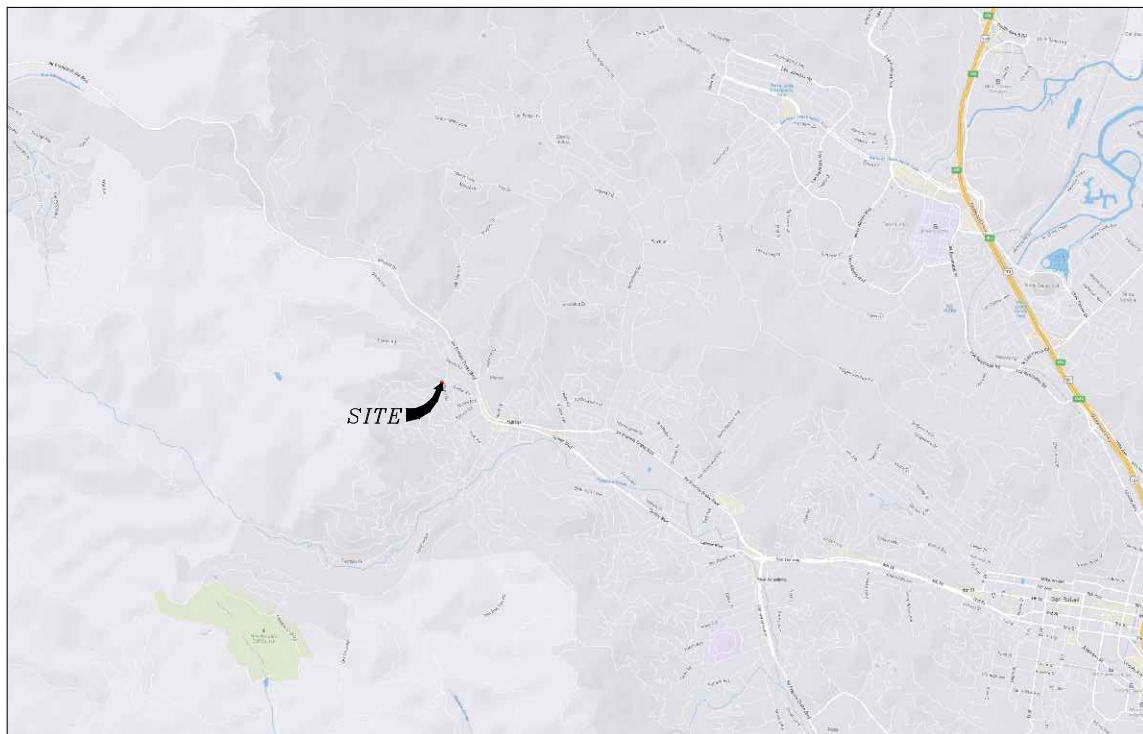
**SITE PLAN**

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



TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN CALIFORNIA (NORTH & CENTRAL), CALL USA NORTH 811  
 TOLL FREE: 1-800-227-2600 OR  
 www.usanorth811.org  
 CALIFORNIA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE





VICINITY MAP  
N.T.S.

**SURVEY DATE**  
01/25/2023

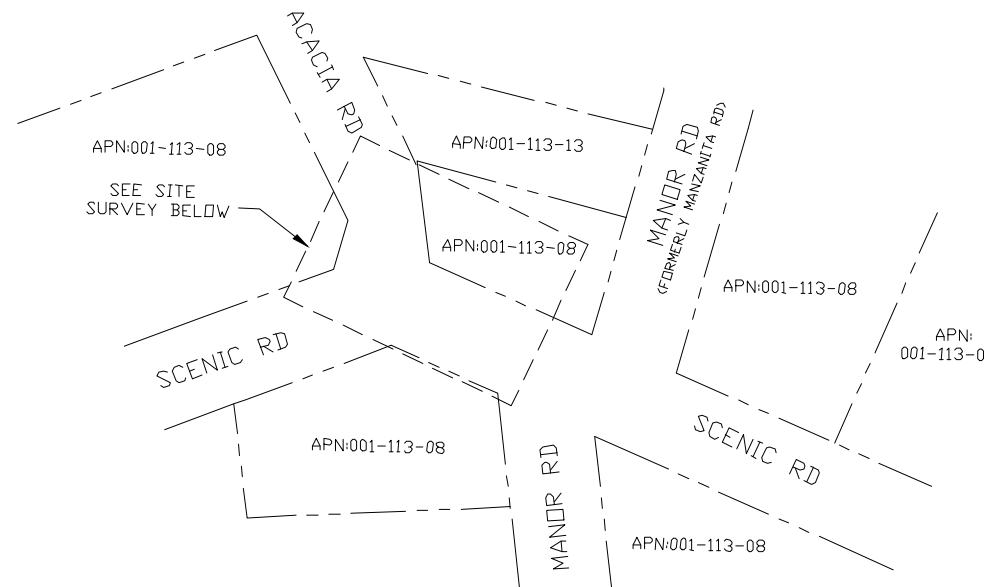
**BASIS OF BEARING**  
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE ZONE THREE, DETERMINED BY GPS OBSERVATIONS.

**BENCHMARK**  
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NOS 'GEOID 18' MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY OBSERVATIONS OF THE 'CRTN' REAL TIME NETWORK. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD83.

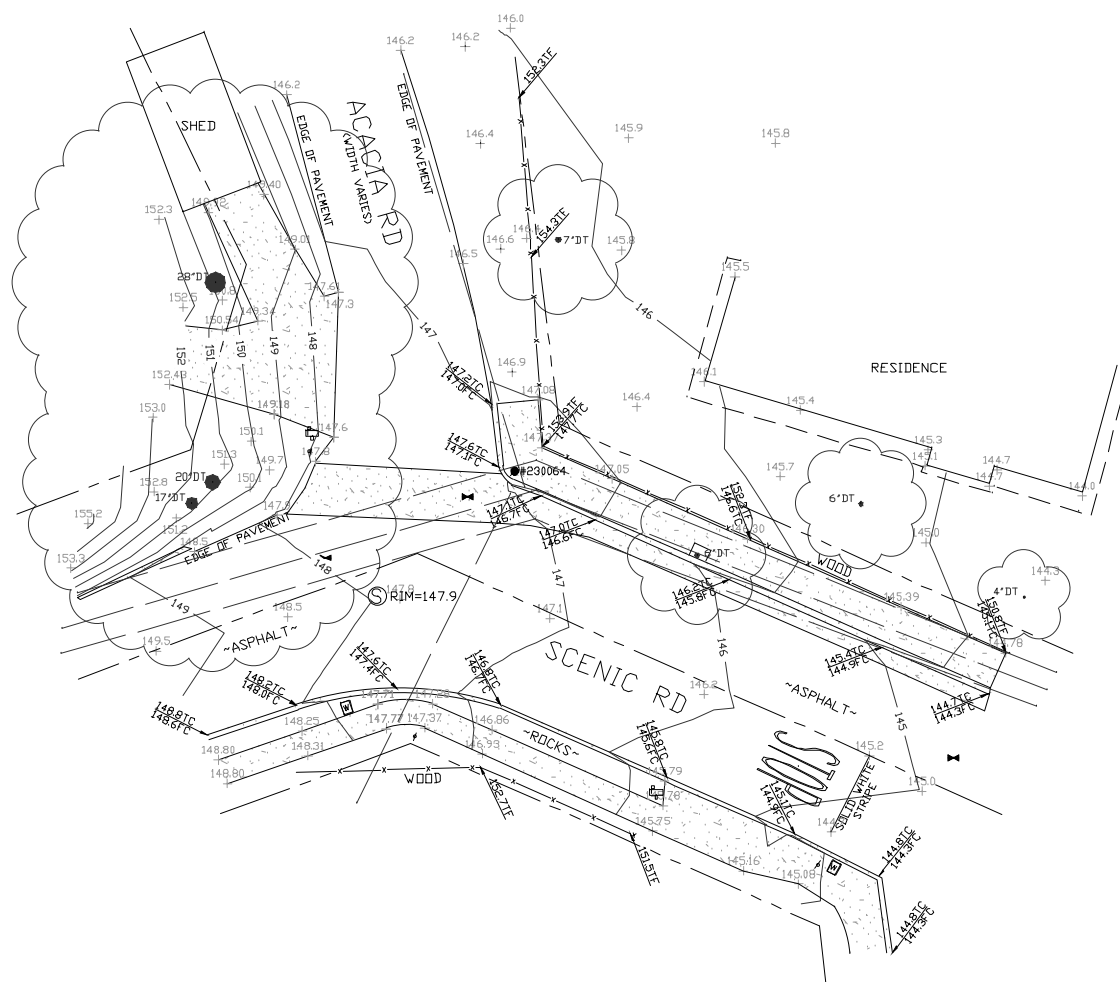
**FLOOD ZONE**  
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X". ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #06041C0451E, DATED 03/17/2014.

**UTILITY NOTES**  
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT B11 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

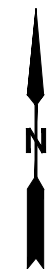
**SURVEYOR'S NOTE**  
THIS SURVEY WAS MADE WITHOUT THE BENEFIT OF A TITLE REPORT. THE LOCATION AND DIMENSIONS SHOWN WERE TAKEN FROM THE MAP(S) RECORDED IN BOOK(S) 2014 PAGE 4 OF RECORDS OF SURVEYS AND BOOK 5 PAGE 4 OF MAPS, MARIN COUNTY RECORDER AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTIES.



OVERALL SITE  
N.T.S.



SITE SURVEY



LEGEND

These standard symbols may be found in the drawing.

- CONCRETE
- PROPERTY LINE
- CENTER LINE
- OVERHEAD LINE
- FENCE
- ROOF
- WALL
- ROCK WALL
- WATER METER
- WATER VALVE
- POWER POLE
- ELEVATION GRADE
- GUY WIRE
- MAILBOX
- WATER METER
- SIGN NO STOPPING
- MANHOLE TELE
- MANHOLE UTILITY
- RECTANGLE INLET
- SHRUB
- TRUNK
- CT CONIFEROUS TREE
- DC DECIDUOUS TREE
- TC TOP OF CURB
- FC FACE OF CURB
- TF TOP OF FENCE
- TW TOP OF WALL

**COMCAST**  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**ALPHA**  
3767 ALPHA WAY  
BELLINGHAM, WA 98226

Eaton Land Surveying, Inc.  
15604 Magnolia Rd.  
Grass Valley, CA. 95949  
Ph. 530.830.0038

DRAWN BY: HE  
CHECKED BY: SE

REVISIONS:		
REV	DATE	DESCRIPTION
0	02/06/23	SUBMITTAL



PROJECT INFORMATION:  
**P-062591**  
76 MANOR ROAD  
FAIRFAX, CA. 94930  
MARIN COUNTY

SHEET TITLE:  
**SITE SURVEY**

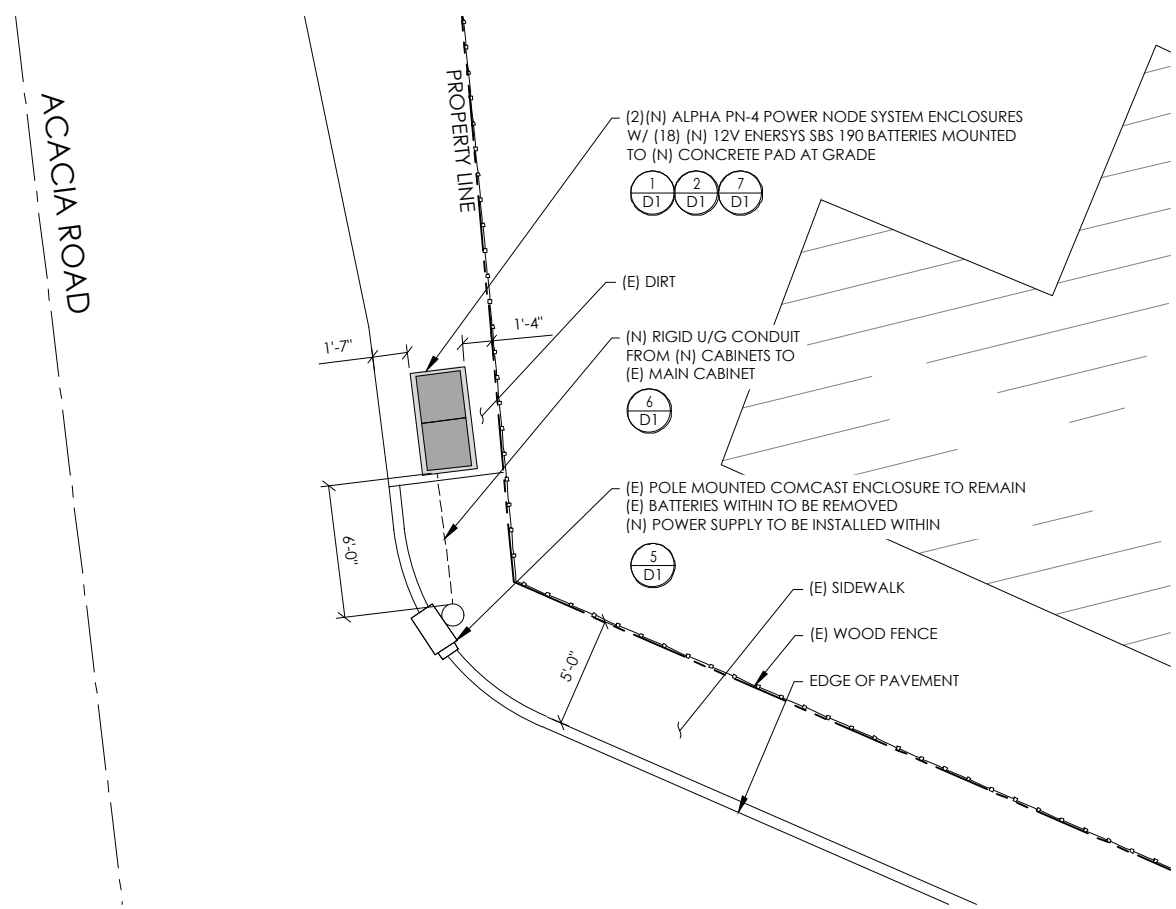
SHEET NUMBER:  
**LS-1**

### ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/20/21	90% CD	FR
B	09/27/21	90% CD	JW
0	01/10/22	100% CD	CG
1	05/04/22	PCC#1	IK
2	03/16/23	PCC#2	MZ

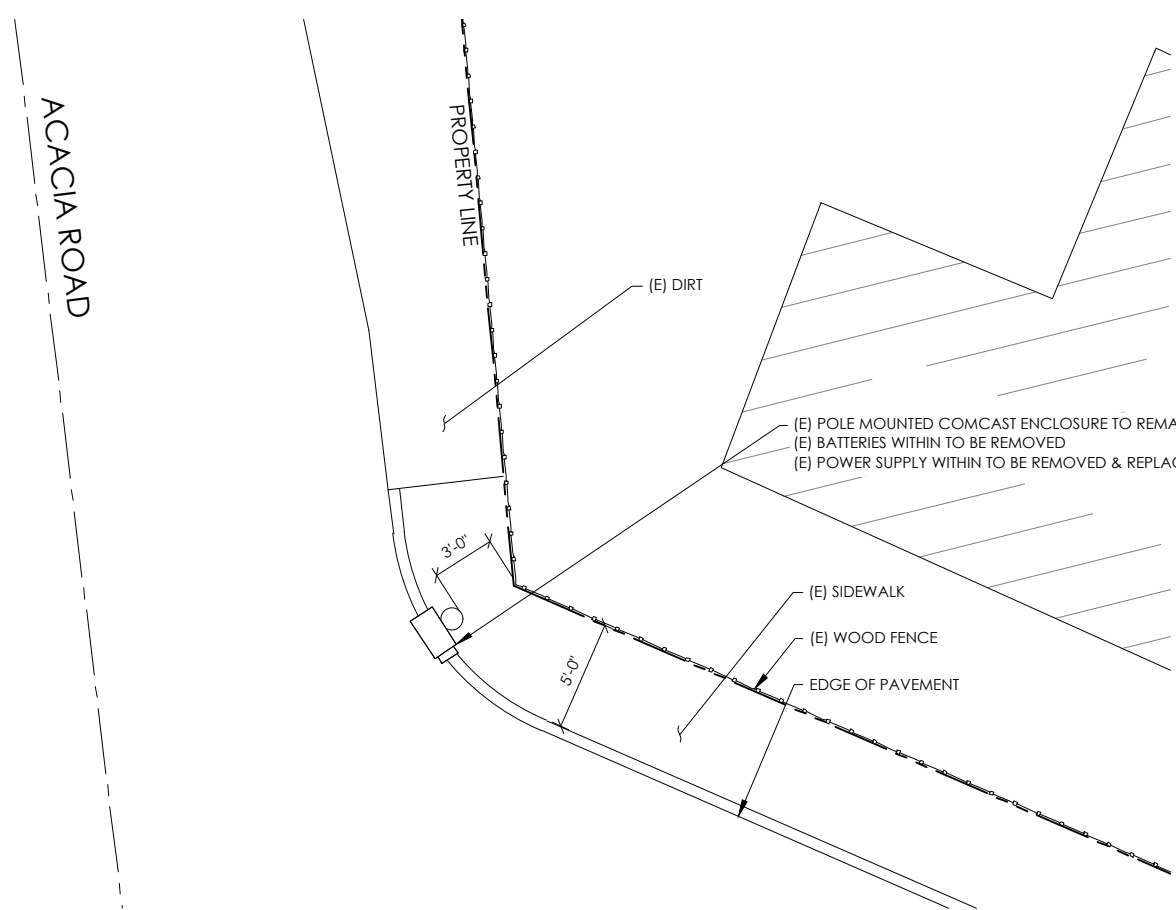
PROPOSED ENLARGED SITE PLAN

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

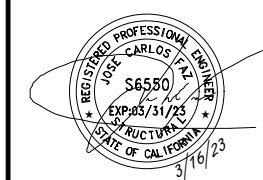


EXISTING ENLARGED SITE PLAN

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



SEAL



SITE INFORMATION

SITE ADDRESS:  
76 MANOR ROAD,  
FAIRFAX, CA 94930

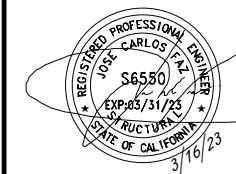
SHEET TITLE:  
**ENLARGED  
SITE PLANS**

**A0**

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/20/21	90% CD	FR
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76 MANOR ROAD,  
FAIRFAX, CA 94930

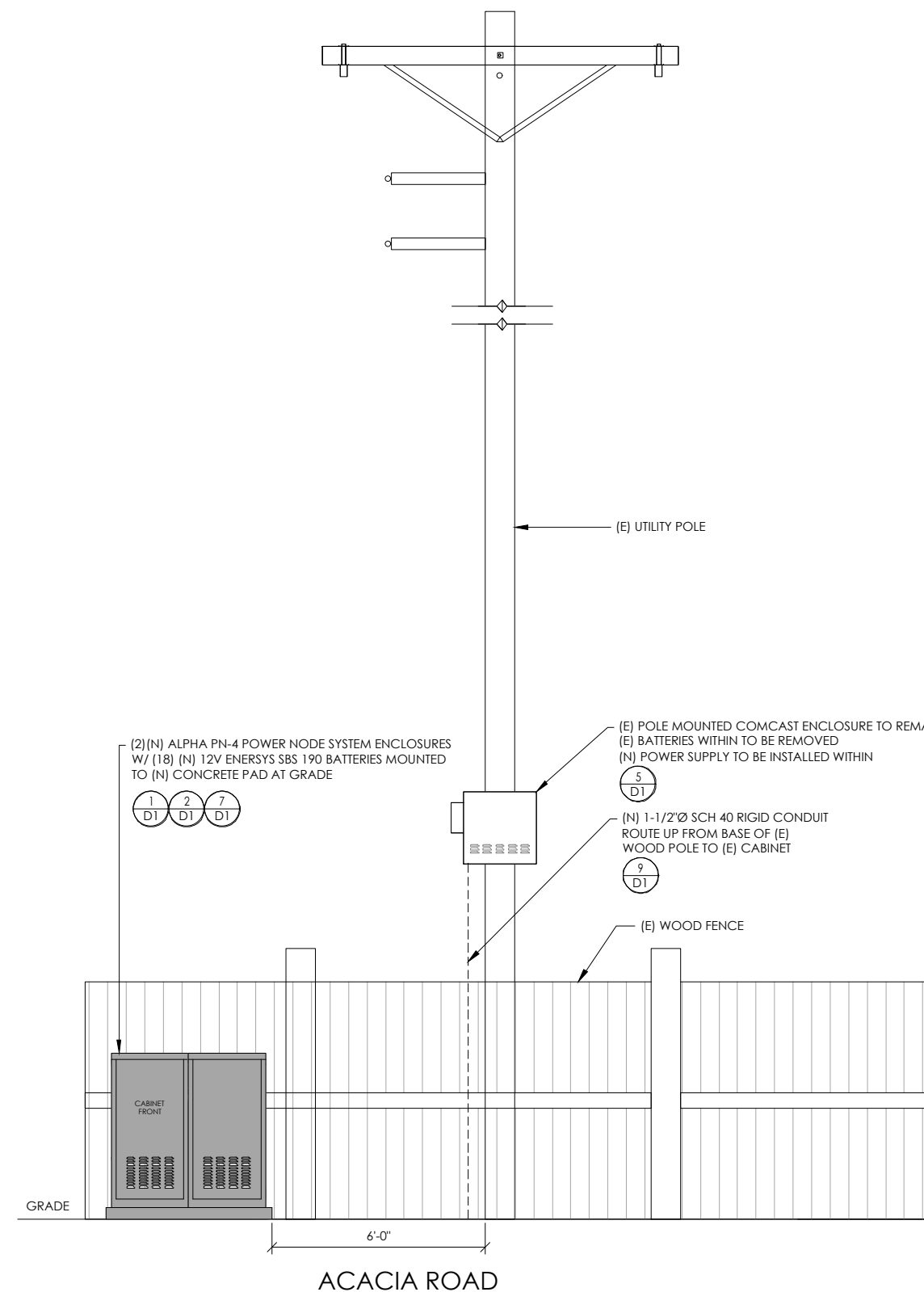
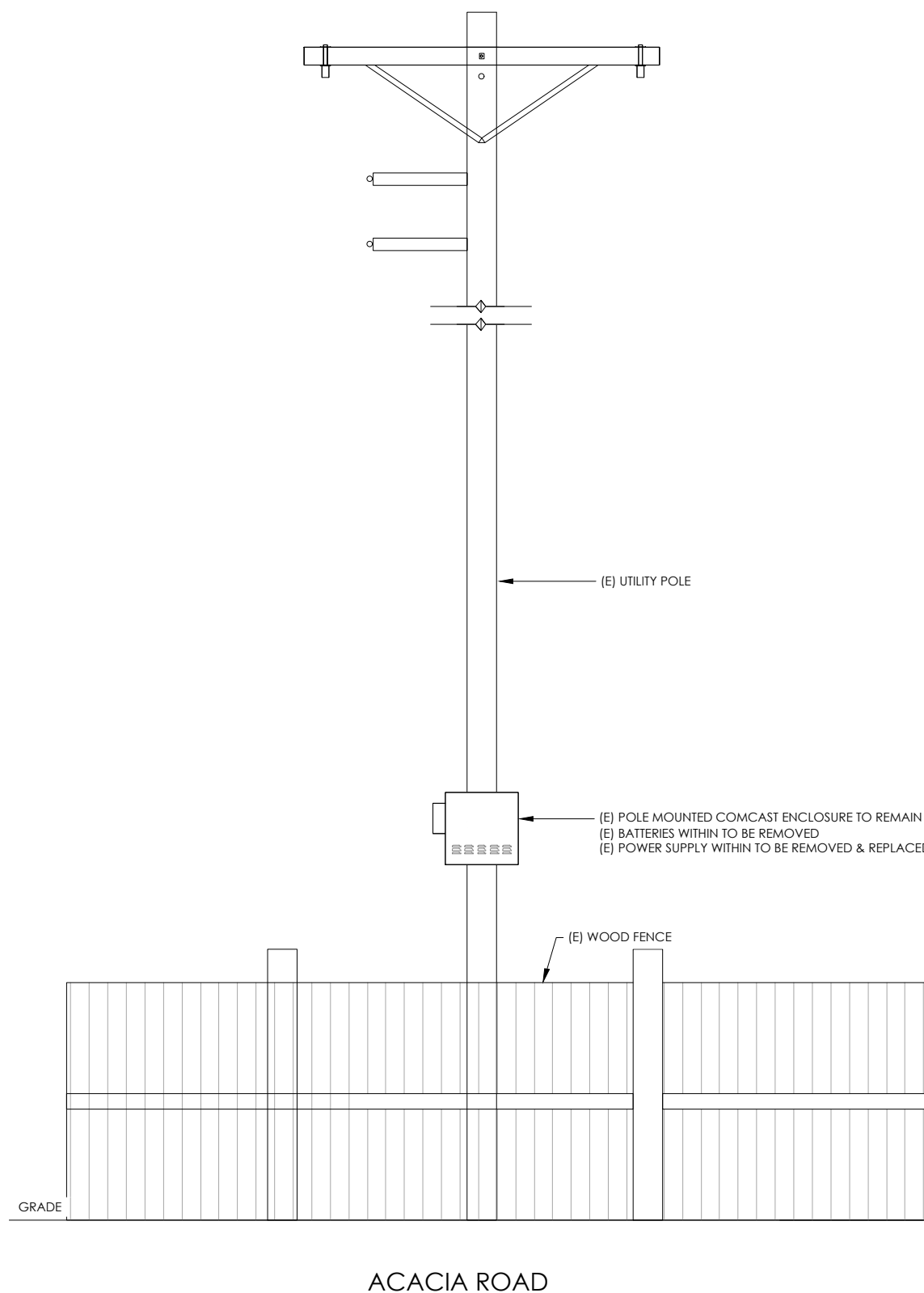
SHEET TITLE:

**ELEVATIONS**

**A1**

CONDUIT ROUTING NOTE:  
1. GC TO ROUTE (N) 1-1/2" RIGID U/G CONDUIT FROM (N) CABINETS 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.



EXISTING ELEVATION

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



2

PROPOSED ELEVATION

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

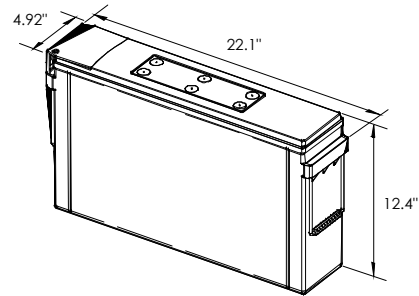


1





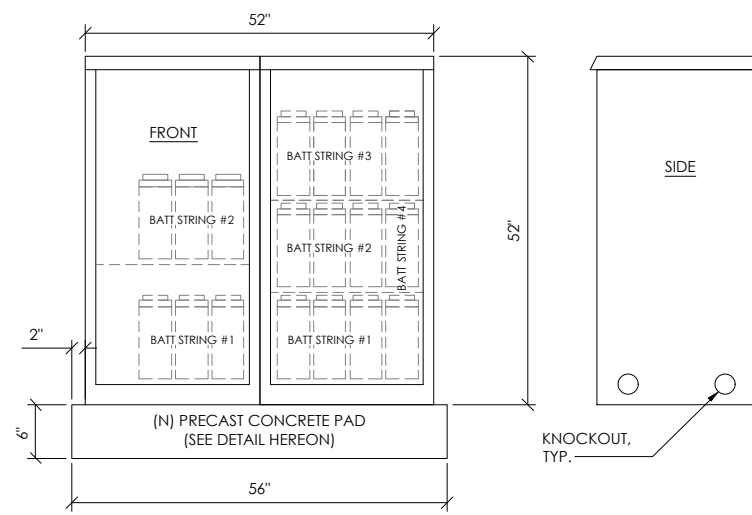
ENERSYS  
SBS 190F BATTERY UNIT



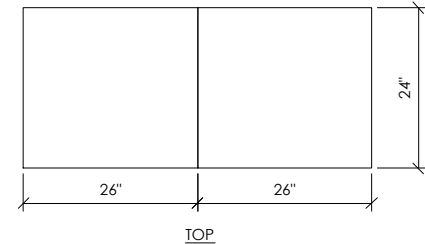
EQUIPMENT SPECIFICATIONS (1 UNIT)	
MFG:	ENERSYS
MODEL:	SBS 190 FT
HEIGHT:	12.4 IN
WIDTH:	4.92 IN
LENGTH:	22.1 IN
WEIGHT:	132 LBS

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	POWERSAFE SBS 190F	18	12	190	2.28	41.04			2.34	42.12
TOTAL		18				41.04	70	CFC 2019 SECTION 1206 DOES NOT APPLY		42.12

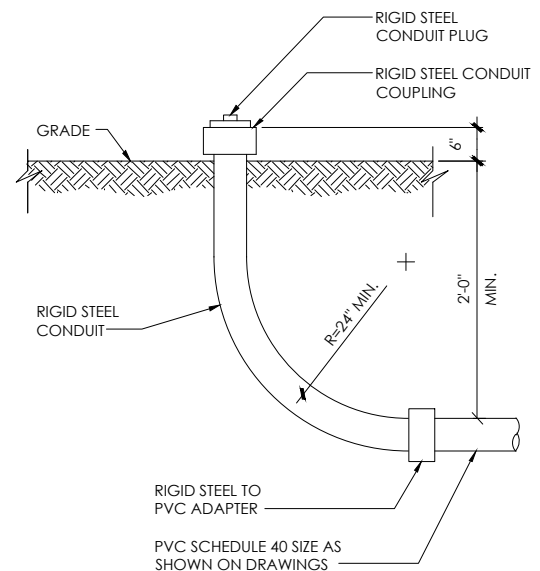
7 BATTERY SPECIFICATIONS  
N.T.S.



CABINET SPECIFICATIONS	
MANUFACTURER:	ALPHA
MODEL:	PN-4
HEIGHT:	52"
WIDTH:	26"
DEPTH:	24"
WEIGHT (EMPTY):	360 LBS.
WEIGHT (W/ BATTERIES):	2,736 LBS.
MATERIAL:	ALUMINUM
BATTERY CONFIGURATION: CABINET #1: (4) BATTERY STRINGS CABINET #2: (2) BATTERY STRINGS	



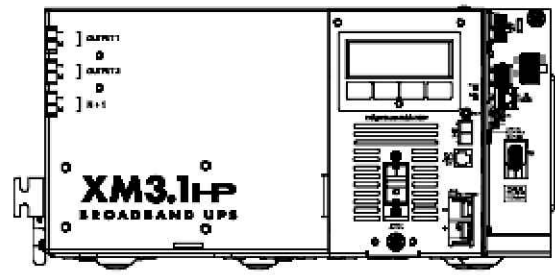
1 DUAL EQUIPMENT CABINET DETAIL  
N.T.S.



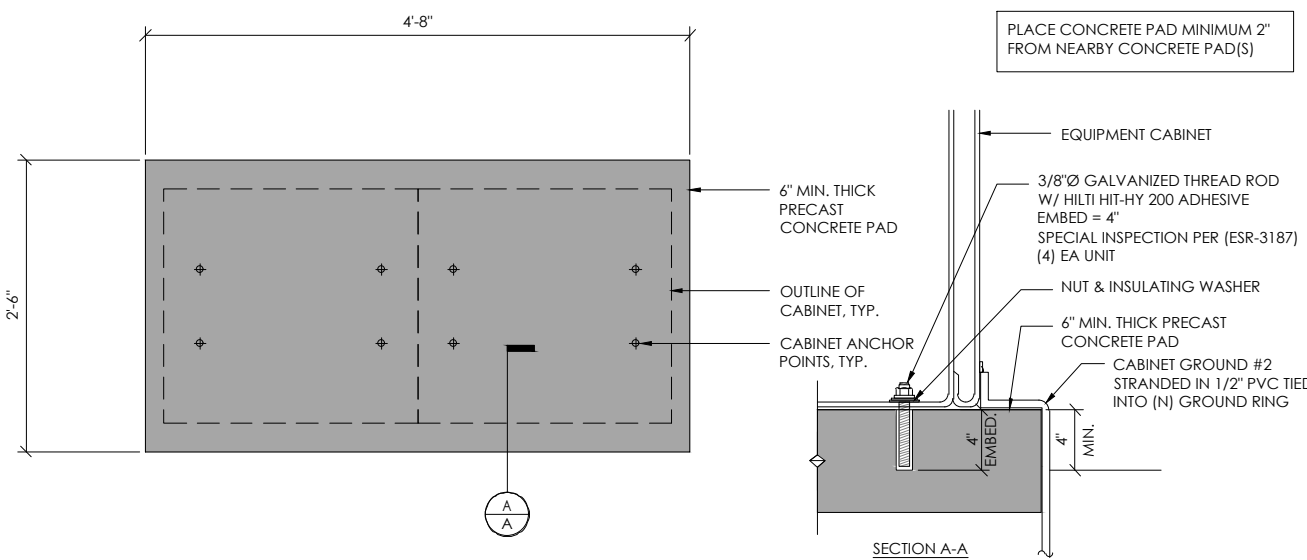
NOTE:  
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

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

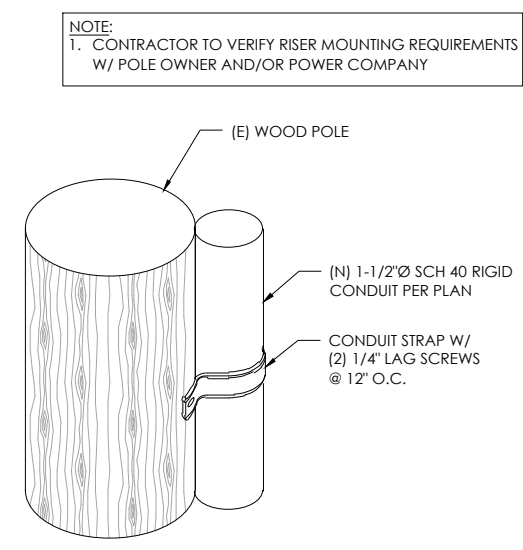
EQUIPMENT SPECIFICATIONS	
MFG:	ALPHA
MODEL:	XM3.1-HP
HEIGHT:	7.76 IN
WIDTH:	16.43 IN
DEPTH:	10.57 IN
WEIGHT:	61 LBS



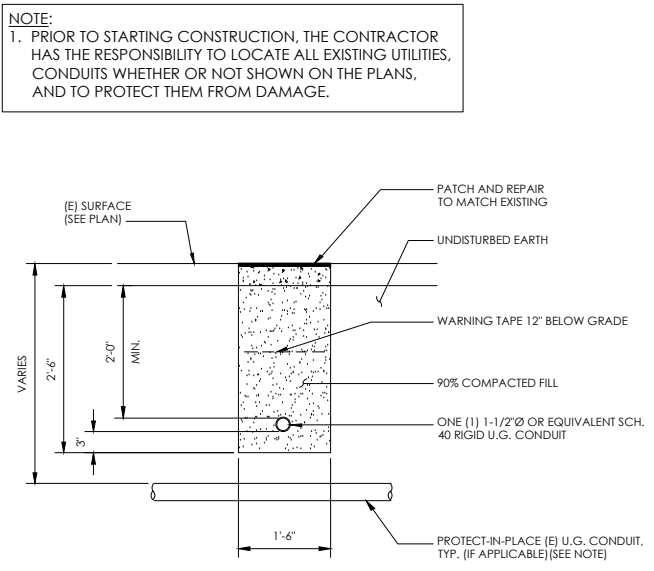
8 STUB-UP DETAIL  
N.T.S.



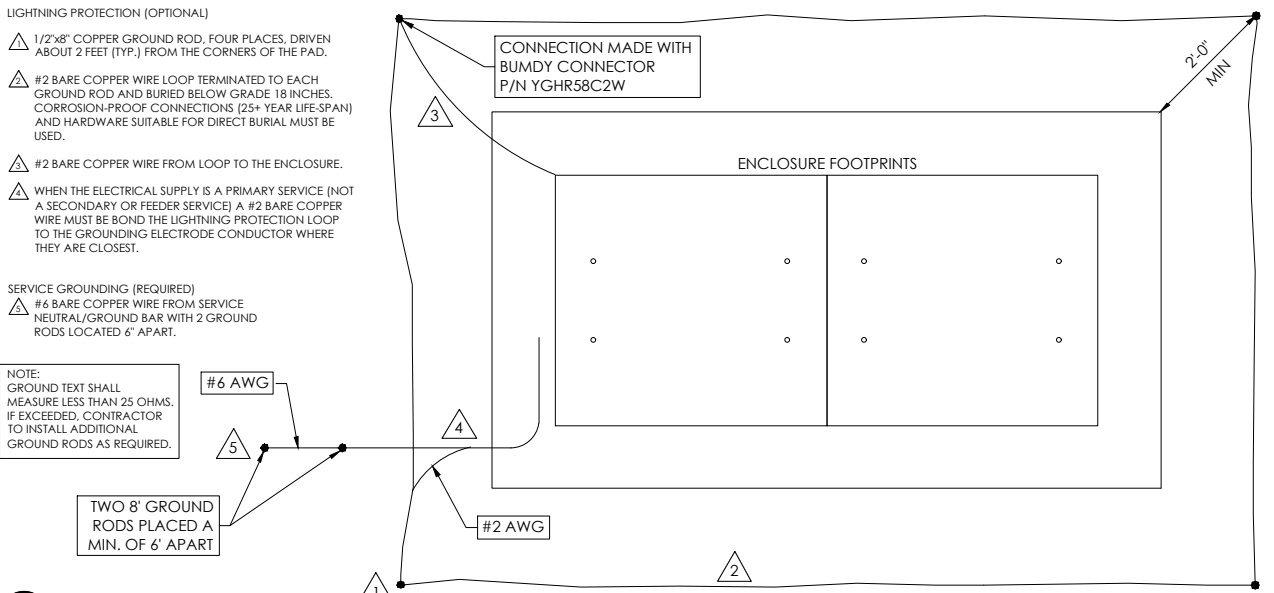
2 CONCRETE PAD & ANCHORAGE DETAIL  
N.T.S.



9 CONDUIT RISER ATTACHMENT DETAIL  
N.T.S.



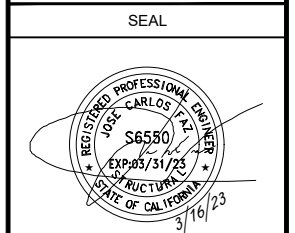
6 TRENCHING DETAIL  
N.T.S.



3 GROUNDING DETAIL  
N.T.S.



ISSUE STATUS			
REV	DATE	DESCRIPTION	BY
A	09/20/21	90% CD	FR
B	09/27/21	90% CD	JW
0	01/10/22	100% CD	CG
1	05/04/22	PCC#1	IK
2	03/16/23	PCC#2	MZ



SITE INFORMATION

SITE ADDRESS:  
76 MANOR ROAD,  
FAIRFAX, CA 94930

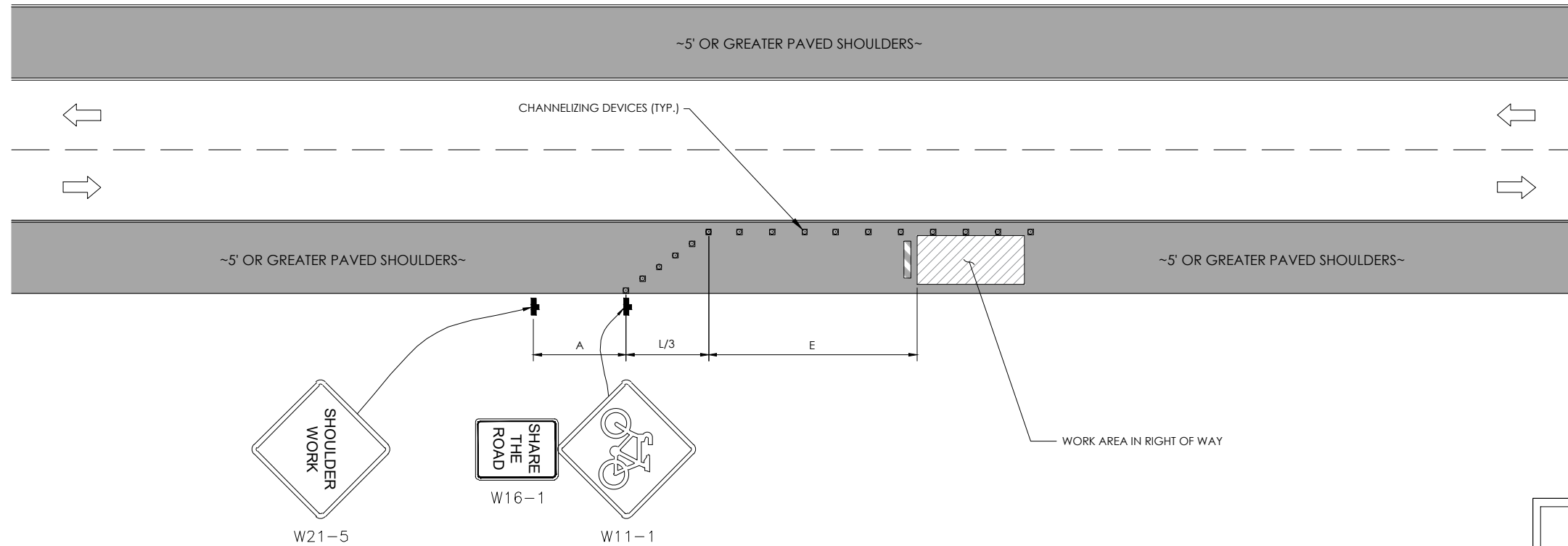
SHEET TITLE:  
**DETAILS**

**D1**

# TRAFFIC CONTROL FOR WORK ON SHOULDERS - RESIDENTIAL AREA

## WORK AREA TRAFFIC CONTROL HANDBOOK 2019 14TH EDITION

PER STANDARDS AND GUIDANCE OF CA-MUTCD



**GENERAL NOTES:**

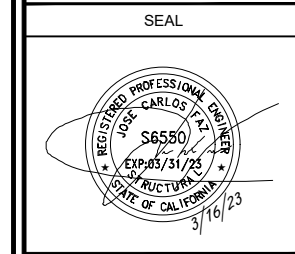
1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2019, 14TH EDITION.
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA 2010 STANDARD PLAN A20A.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE..
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE THE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC., FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
15. DIMENSIONS BASED ON GIS MAPPING DATA AND/OR RECORD DRAWINGS AND NOT A SURVEY.
16. TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
17. ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.

SPEED MPH (2)	DIMENSION A/B/C ADVANCE WARNING SIGN SPACING (5)	DIMENSION L MERGIN TAPER LENGTH	DIMENSION L/2 SHIFTING TAPER LENGTH	DIMENSION L/3 MINIMUM SHOULDER TAPER	DIMENSION "E" BUFFER SPACE (4 A) AND FLAGGER STATION STOPPING SIGHT DISTANCE (4 B) (0%) (3%) (6%)	MAXIMUM CHANNEUZER TAPER SPACING (3)	MAXIMUM CHANNEUZER TANGENT SPACING (3)	MAXIMUM CHANNEUZER CONFLICT SPACING (5)	
MPH	FT	ft	ft	ft	ft	ft	ft	ft	
25	100	125	65	45	(15.5) (16.0) (13.5)	25	50	12	
30	250	180	90	60	(20.0) (20.5) (21.5)	30	60	15	
35	250	245	125	85	(25.0) (26.0) (27.5)	35	70	17	
40	250	320	160	110	(30.5) (31.5) (33.5)	40	80	20	
45	350	540	270	180	(36.0) (38.0) (40.0)	45	90	22	
50	350	600	300	200	(42.5) (45.0) (47.5)	50	100	25	
55	500	660	330	220	(49.5) (52.0) (55.5)	50	100	25	
60	500	720	360	240	(57.0) (60.0) (64.0)	50	100	25	
65	500	780	390	260	(64.5) (68.5) (73.0)	50	100	25	
1	WORK ON FREEWAYS AND EXPRESSWAYS SHALL MEET THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATION REQUIREMENTS								
2	POSTED SPEED OR OBSERVED OPERATION SPEED (WHICHEVER IS GREATER)								
3	CHANNEUZER SPACING SHALL BE REDUCED BY HALF AT AREAS WHERE WORK IS TAKING PLACE ON CURVES OR AREAS OF HEAD-ON CONFLICT								
4 A	BUFFER SPACE MAY BE INSERTED IN LOW SPEED URBAN AREAS AND SHOULD BE INSERTED IN HIGH SPEED URBAN AND RURAL AREAS								
4 B	THE STOPPING SIGHT DISTANCE SHOULD ENABLE ROAD USERS TO SEE THE PRIMARY FLAGGER STATION AND SAFELY STOP								
5	SIGN SPACING IN RURAL AREAS SHOULD BE 500 FT								
6	** TABLE 6F 10.1 (CA)								



ISSUE STATUS			
REV	DATE	DESCRIPTION	BY
A	09/20/21	90% CD	FR
B	09/27/21	90% CD	JW
0	01/10/22	100% CD	CG
1	05/04/22	PCC#1	IK
Δ	03/16/23	PCC#2	MZ

WORK HOURS  
7:00AM - 3:30PM



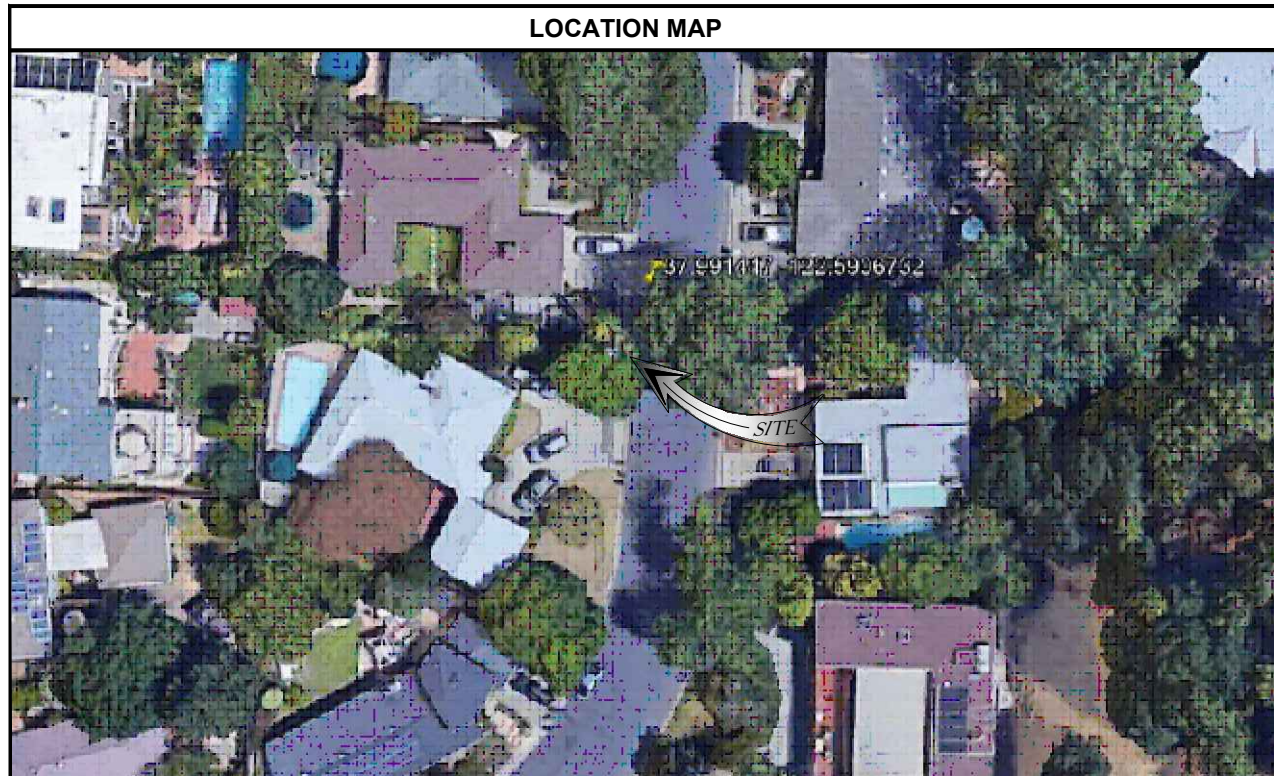
SITE INFORMATION

SITE ADDRESS:  
76 MANOR ROAD,  
FAIRFAX, CA 94930

SHEET TITLE:  
**TRAFFIC CONTROL**

# TC1





**AE TA3 SCOPE OF WORK**

THIS PROJECT MODIFICATION OF EXISTING CONSISTS OF:

- INSTALLATION OF (2) (N) ALPHA PN-4 POWERNODE SYSTEM ENCLOSURES
- INSTALLATION OF (18) (N) 12V ENERSYS SBS 190 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



**SITE ADDRESS:**  
 111 MARINDA DR  
 FAIRFAX, CA 94930

SITE INFORMATION	
SITE ADDRESS:	111 MARINDA DR FAIRFAX, CA 94930
LATITUDE/LONGITUDE (NAD 83):	37.991447, -122.5906732
JURISDICTION:	TOWN OF FAIRFAX
POWER PROVIDER:	PG&E
AMP DRAW:	4.66

DRAWING INDEX	
SHEET	DESCRIPTION
T1	TITLE SHEET AND SITE PLAN
LS-1	SITE SURVEY
A0	ENLARGED SITE PLANS
A1	ELEVATIONS
D1	DETAILS
TC1	TRAFFIC CONTROL

**PROJECT TEAM**

**OWNER:** COMCAST CABLE  
 3011 COMCAST PLACE  
 LIVERMORE, CA 94551

**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 8 - CALIFORNIA HISTORICAL BUILDING CODE
PART 1 - CALIFORNIA ADMINISTRATIVE CODE	PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE	PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE	PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN)
PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE	PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE	2. ANSITIA-222 (REV H)
PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE	3. 2018 NFPA 101, LIFE SAFETY CODE
PART 6 - CALIFORNIA ENERGY CODE	4. 2018 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
PART 7 - VACANT	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.

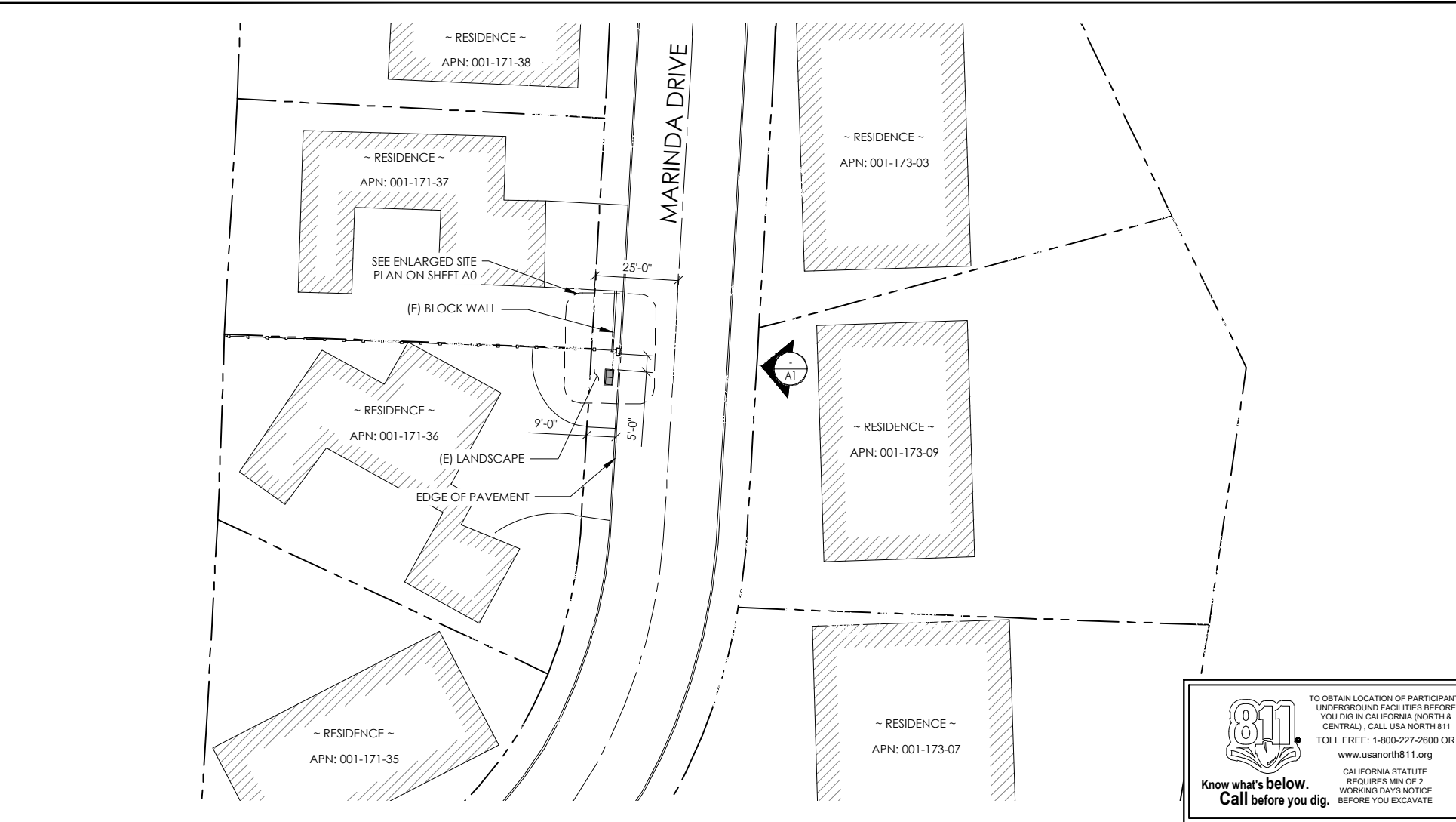


**J5 INFRASTRUCTURE**

23 MAUCHLY, STE 110  
 IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
 J5 PROJECT ID: P-060777

ISSUE STATUS			
REV	DATE	DESCRIPTION	BY
A	09/15/21	90% CD	FR
B	09/16/21	90% CD	JW
0	12/30/21	100% CD	JW
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC#2	IK

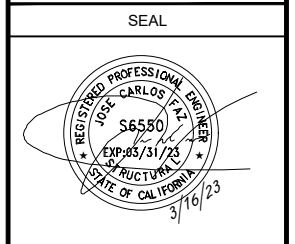


TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN CALIFORNIA (NORTH & CENTRAL), CALL USA NORTH 811  
 TOLL FREE: 1-800-227-2600 OR  
 www.usanorth811.org

CALIFORNIA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

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

**SITE PLAN**



**SITE INFORMATION**

SITE ADDRESS:  
 111 MARINDA DR,  
 FAIRFAX, CA 94930

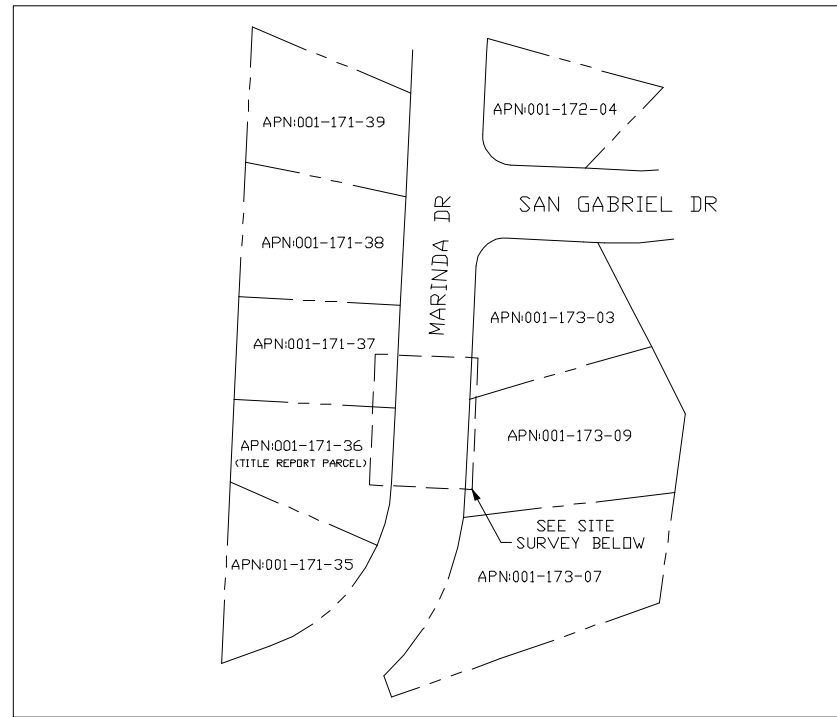
SHEET TITLE:  
**TITLE SHEET**

**T1**





VICINITY MAP  
N.T.S.



OVERALL SITE  
N.T.S.

**SURVEY DATE**  
01/25/2023

**BASIS OF BEARING**  
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE ZONE THREE, DETERMINED BY GPS OBSERVATIONS.

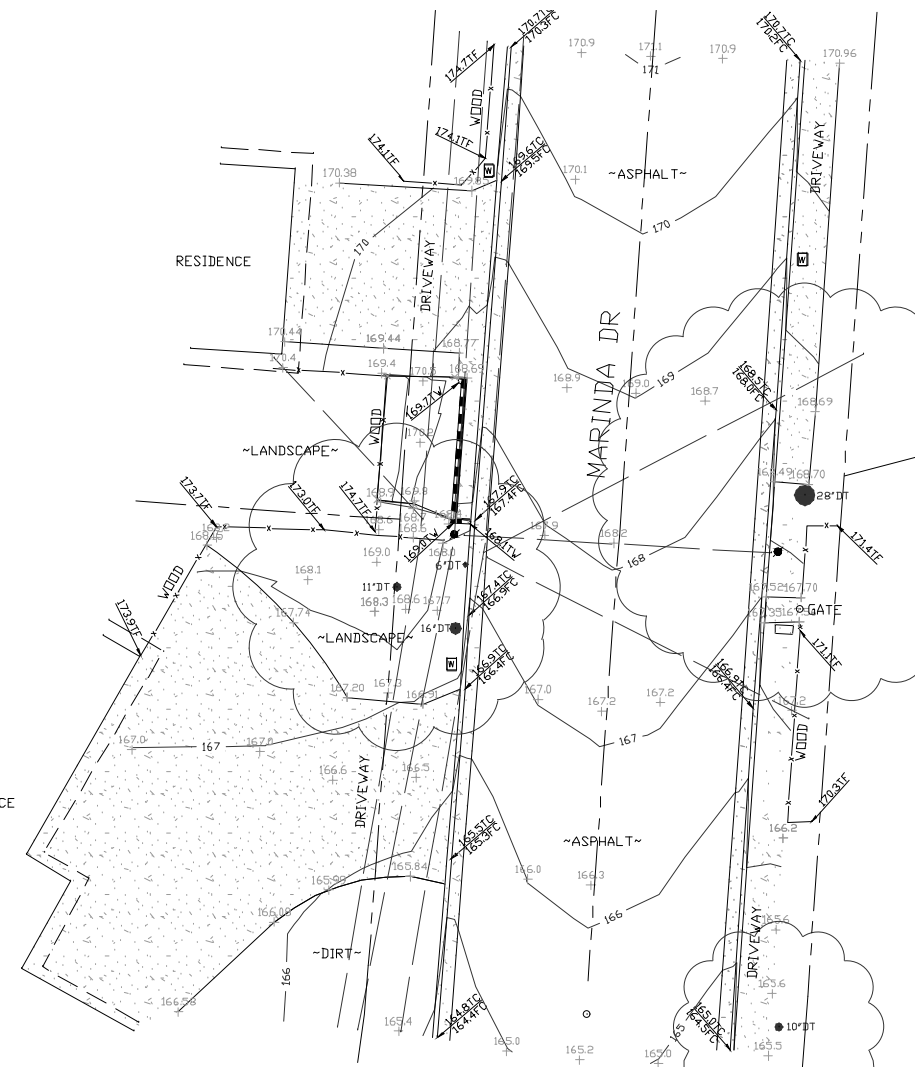
**BENCHMARK**  
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS "GEOID 18" MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY OBSERVATIONS OF THE "CRTN" REAL TIME NETWORK. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD83.

**FLOOD\_ZONE**  
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD\_ZONE "X". ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #06041C04522, DATED 03/17/2014.

**UTILITY NOTES**  
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT 811 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/ OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**SURVEYOR'S NOTE**  
THE LOCATION AND DIMENSIONS SHOWN WERE TAKEN FROM THE MAP(S) RECORDED IN BOOK 7 PAGE 89 OF MAPS BOOK 7 PAGE 49 OF MAPS, MARIN COUNTY RECORDER AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTIES.

**TITLE REPORT DESCRIPTION**  
TITLE REPORT PARCEL  
APN:001-171-38  
PREPARED USING AMERICAN TITLE'S TITLE REPORT #5028900-8942878 DATED 01/11/2023;



SITE SURVEY

LEGEND

- These standard symbols will be found in the drawing.
- CONCRETE
  - PROPERTY LINE CENTER LINE
  - OVERHEAD LINE
  - FENCE
  - ROOF WALL
  - ROCK WALL
  - WATER METER
  - WATER VALVE
  - POWER POLE
  - ELEVATION GRADE
  - GUY WIRE
  - MAILBOX
  - WATER METER
  - SIGN
  - MANHOLE TELE
  - MANHOLE UTILITY
  - RECTANGLE INLET
  - SHRUB
  - TRUNK
  - CT CONIFEROUS TREE
  - DC DECIDUOUS TREE
  - TC TOP OF CURB
  - FC FACE OF CURB
  - TF TOP OF FENCE
  - TW TOP OF WALL



**COMCAST**  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**ALPHA**  
3767 ALPHA WAY  
BELLINGHAM, WA 98226

Eaton Land Surveying, Inc.  
15604 Magnolia Rd.  
Grass Valley, CA. 95949  
Ph. 530.830.0038

DRAWN BY: HE  
CHECKED BY: SE

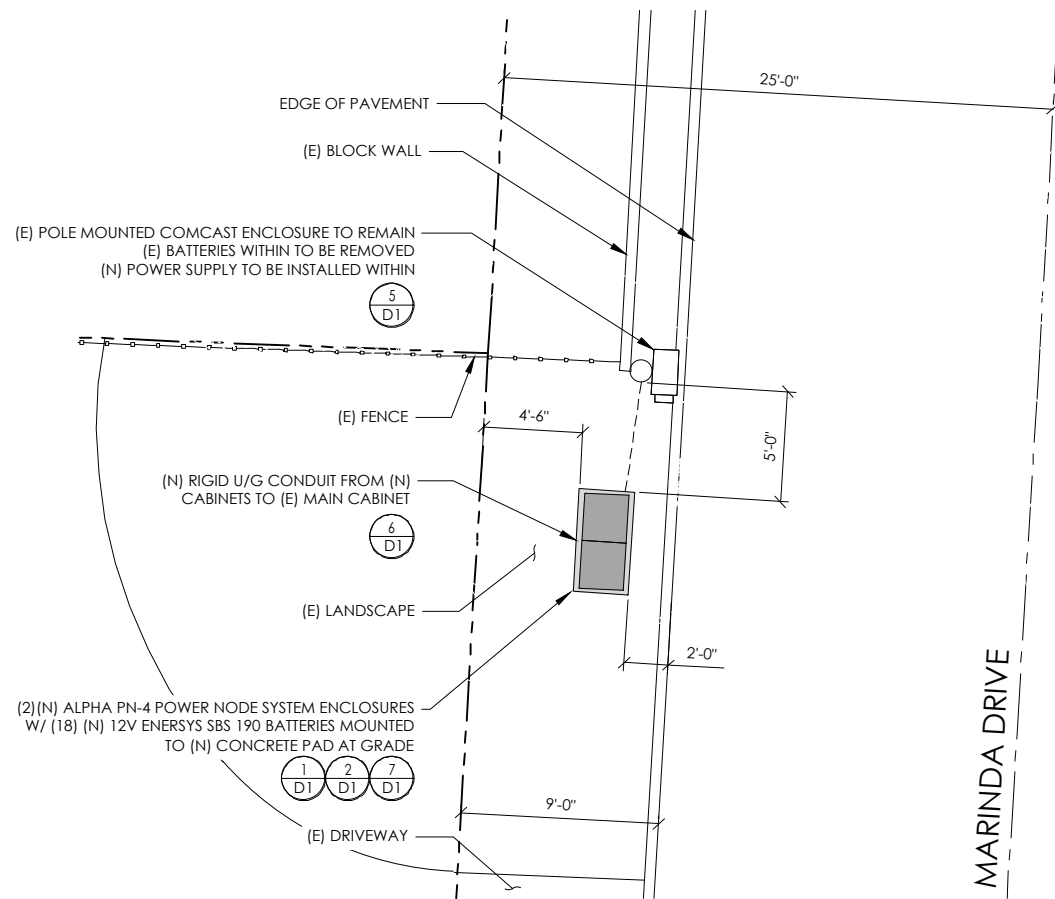
REVISIONS:		
REV	DATE	DESCRIPTION
0	02/03/23	SUBMITTAL



PROJECT INFORMATION:  
**P-060777**  
111 MARINDA DR  
FAIRFAX, CA. 94930  
MARIN COUNTY

SHEET TITLE:  
**SITE SURVEY**

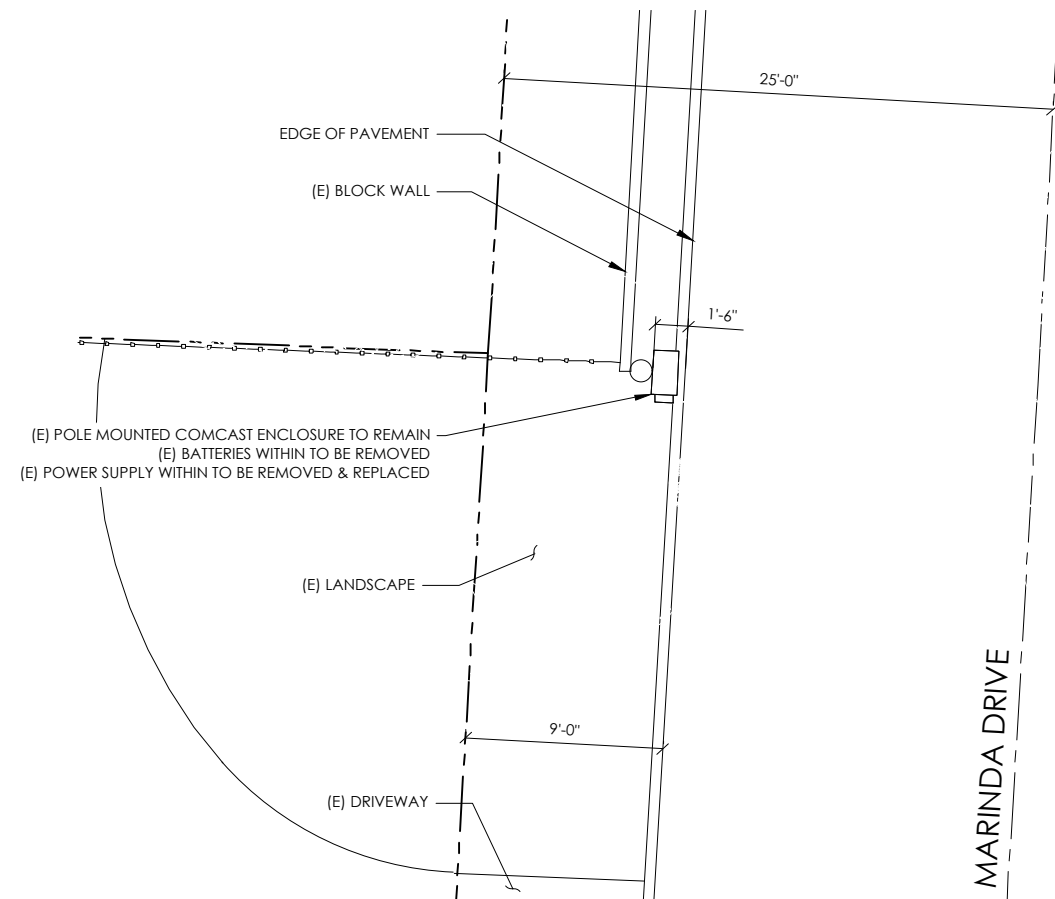
SHEET NUMBER:  
**LS-1**



PROPOSED ENLARGED SITE PLAN

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

 1



EXISTING ENLARGED SITE PLAN

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

 2



3011 COMCAST PLACE  
 LIVERMORE, CA 94551



3767 ALPHA WAY  
 BELLINGHAM, WA 98226



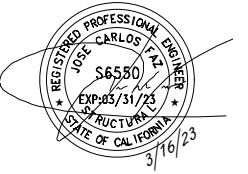
23 MAUCHLY, STE 110  
 IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
 J5 PROJECT ID: P-060777

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/15/21	90% CD	FR
B	09/16/21	90% CD	JW
0	12/30/21	100% CD	JW
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC#2	IK

SEAL

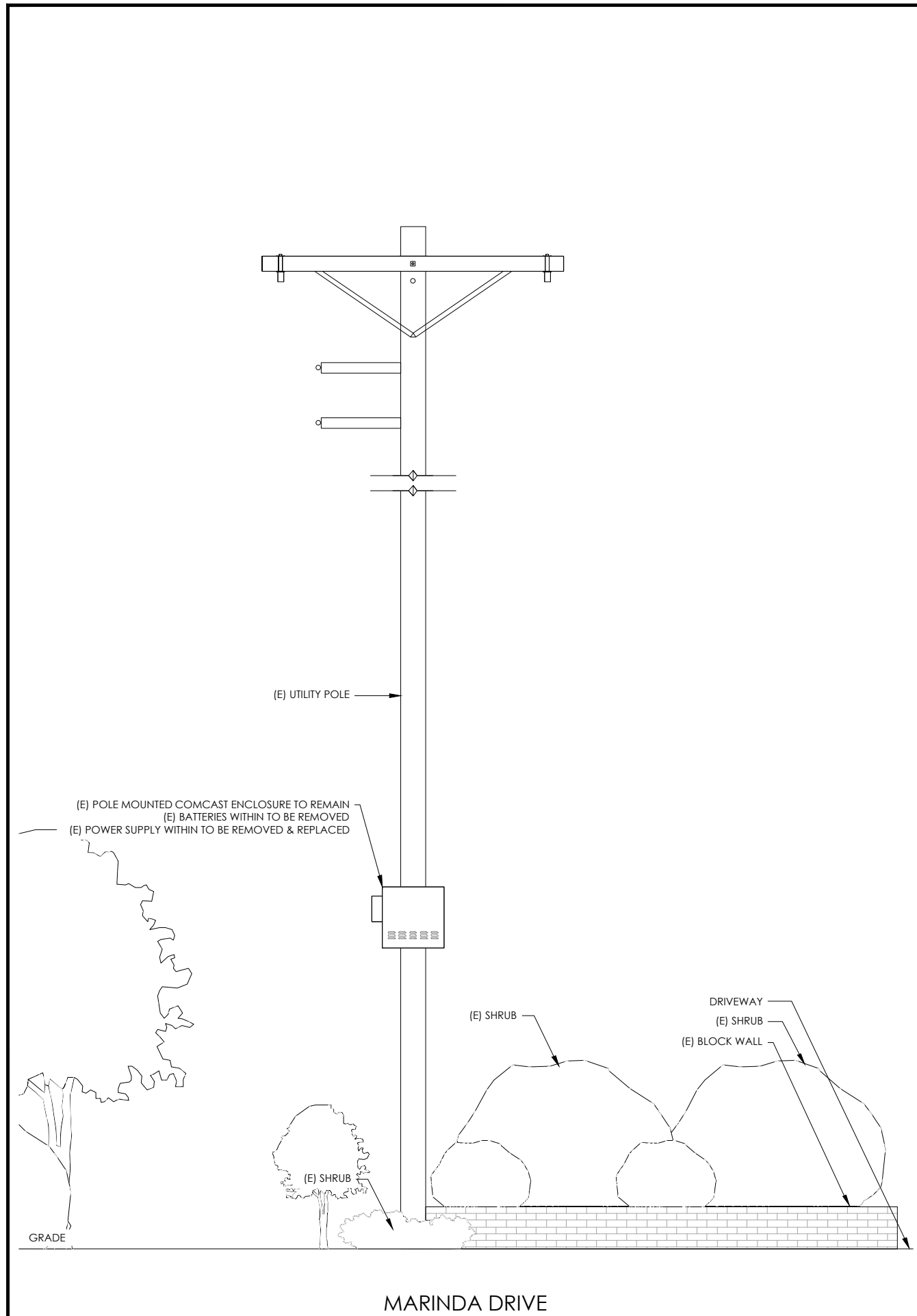


SITE INFORMATION

SITE ADDRESS:  
 111 MARINDA DR,  
 FAIRFAX, CA 94930

SHEET TITLE:  
**ENLARGED  
 SITE PLANS**

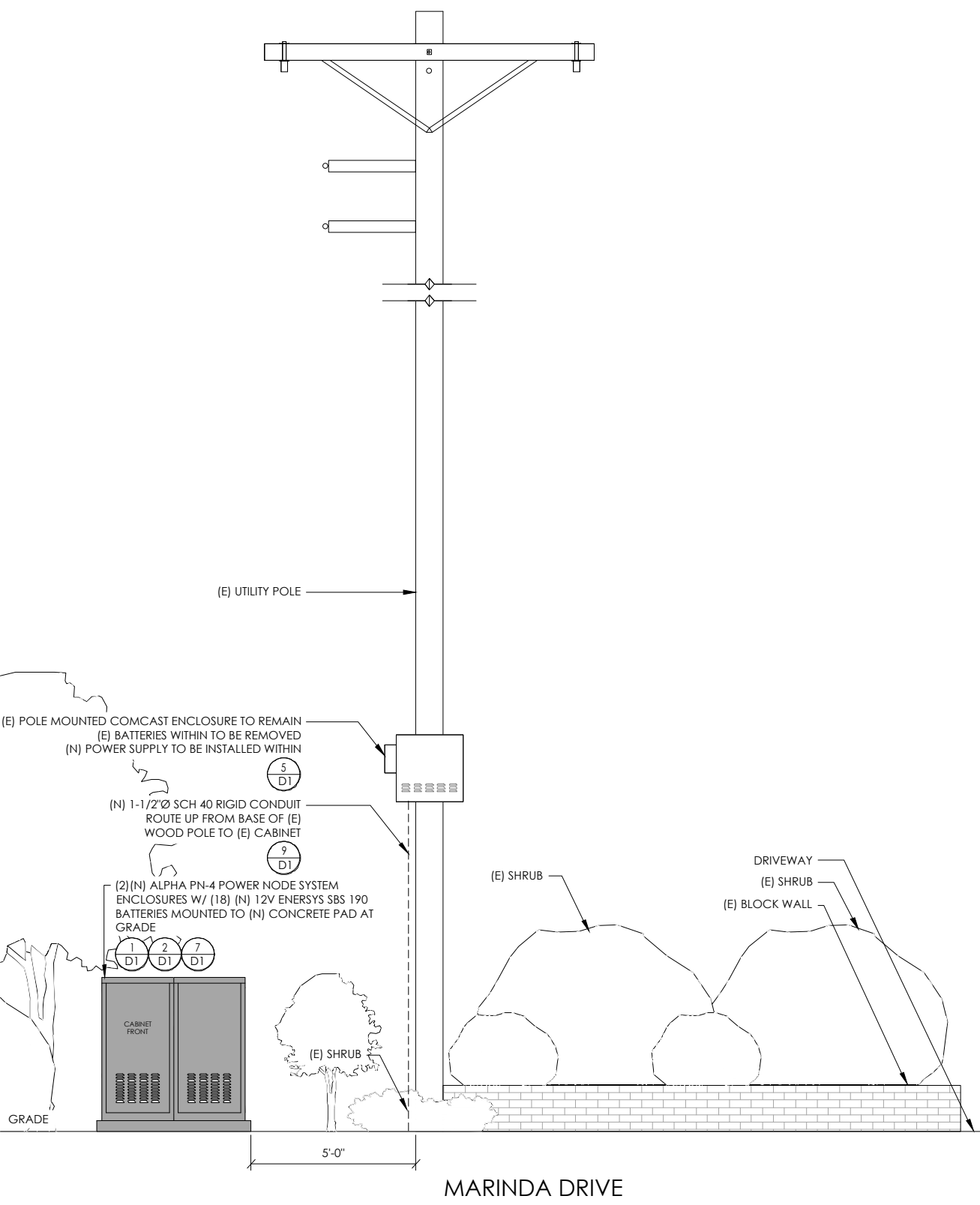
**A0**



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) CABINETS 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.

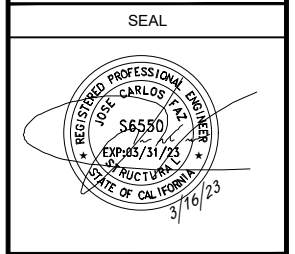


PROPOSED ELEVATION 24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0" **1**



**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/15/21	90% CD	FR
B	09/16/21	90% CD	JW
0	12/30/21	100% CD	JW
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC#2	IK



SITE INFORMATION

SITE ADDRESS:  
 111 MARINDA DR,  
 FAIRFAX, CA 94930

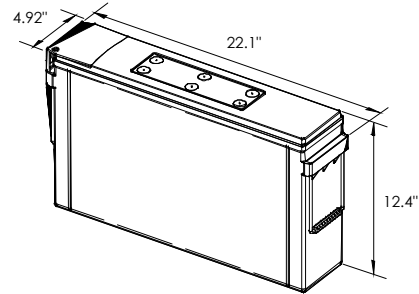
SHEET TITLE:  
**ELEVATIONS**

**A1**





ENERSYS  
SBS 190F BATTERY UNIT



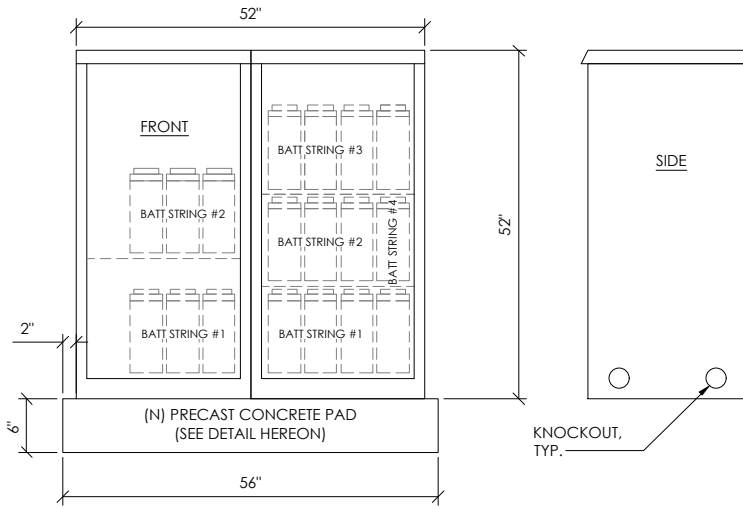
EQUIPMENT SPECIFICATIONS (1 UNIT)

MFG:	ENERSYS
MODEL:	SBS 190 FT
HEIGHT:	12.4 IN
WIDTH:	4.92 IN
LENGTH:	22.1 IN
WEIGHT:	132 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	POWERSAFE SBS 190F	18	12	190	2.28	41.04			2.34	42.12
TOTAL		18				41.04	70	CFC 2019 SECTION 1206 DOES NOT APPLY		42.12

7 BATTERY SPECIFICATIONS  
N.T.S.

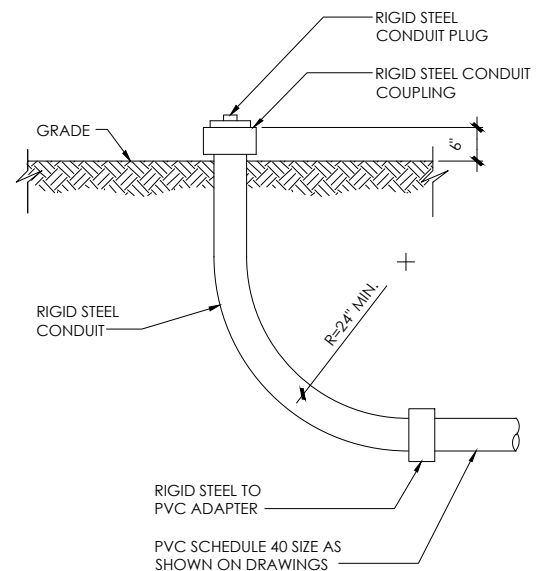


CABINET SPECIFICATIONS

MANUFACTURER:	ALPHA
MODEL:	PN-4
HEIGHT:	52"
WIDTH:	26"
DEPTH:	24"
WEIGHT (EMPTY):	360 LBS.
WEIGHT (W/ BATTERIES):	2,736 LBS.
MATERIAL:	ALUMINUM

BATTERY CONFIGURATION:  
CABINET #1: (4) BATTERY STRINGS  
CABINET #2: (2) BATTERY STRINGS

1 DUAL EQUIPMENT CABINET DETAIL  
N.T.S.

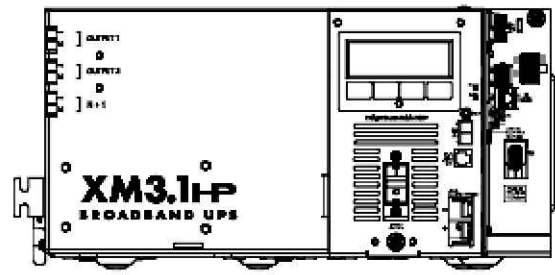


NOTE:  
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

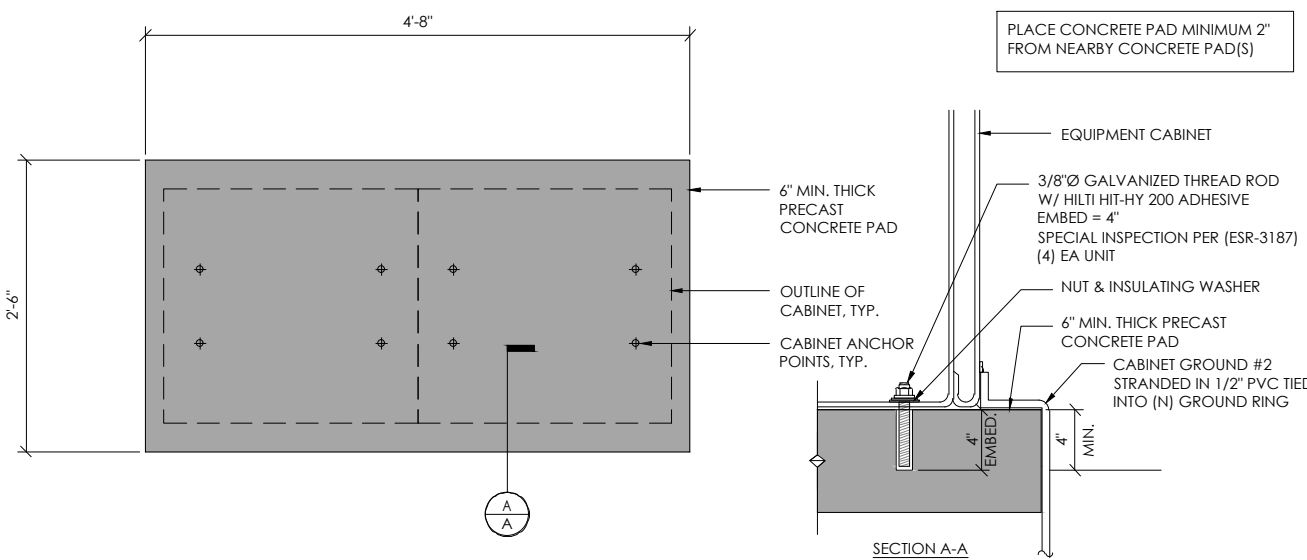
NOMINAL INPUT VOLTAGE: 120V AC  
OUTPUT VOLTAGE: 63/89V AC

EQUIPMENT SPECIFICATIONS

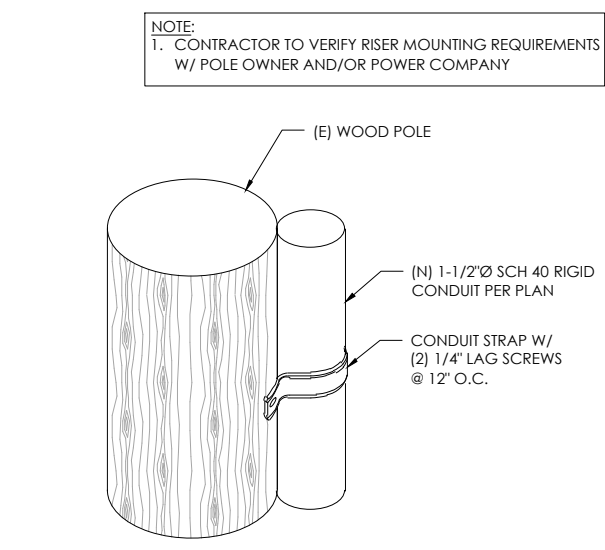
MFG:	ALPHA
MODEL:	XM3.1-HP
HEIGHT:	7.76 IN
WIDTH:	16.43 IN
DEPTH:	10.57 IN
WEIGHT:	61 LBS



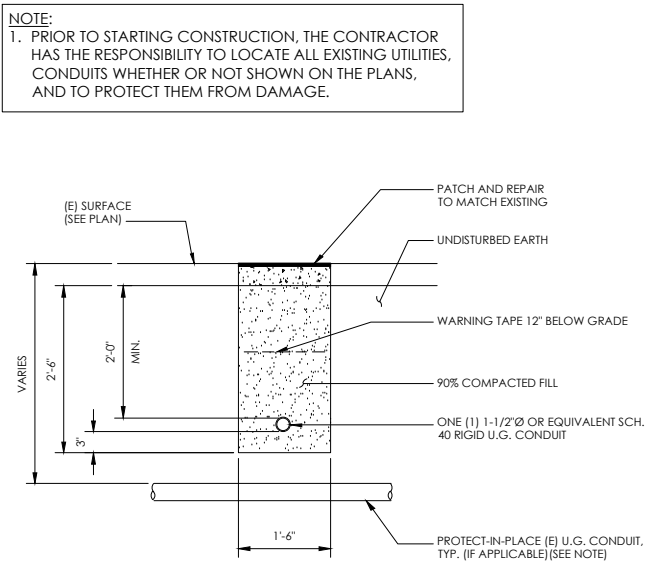
8 STUB-UP DETAIL  
N.T.S.



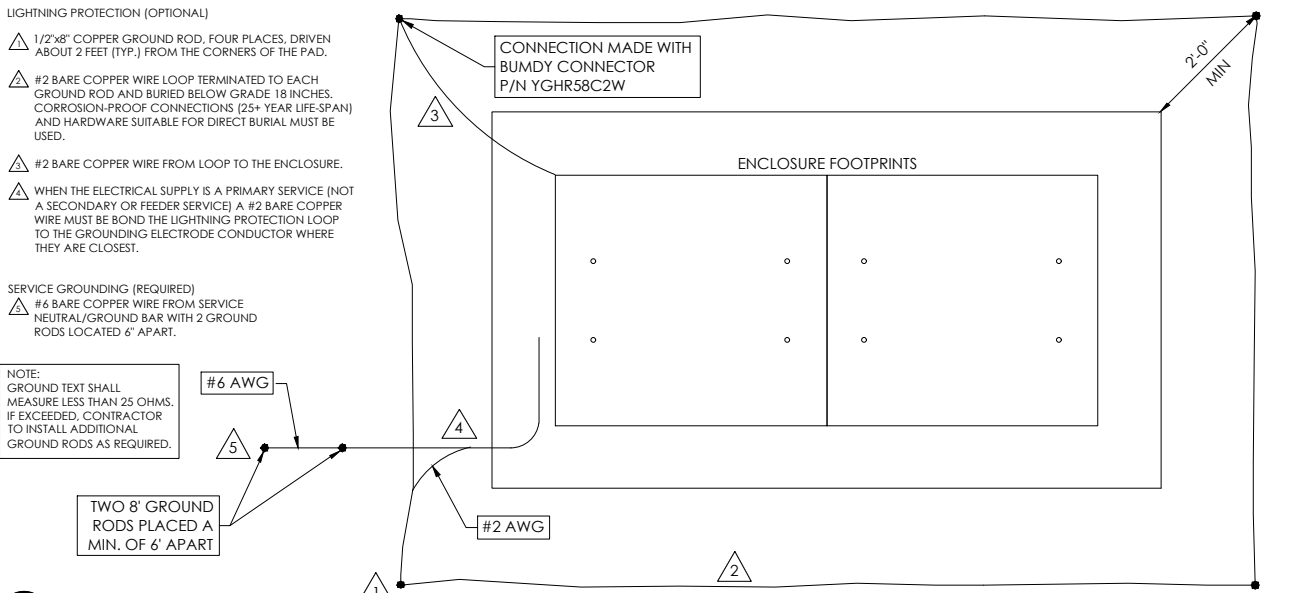
2 CONCRETE PAD & ANCHORAGE DETAIL  
N.T.S.



9 CONDUIT RISER ATTACHMENT DETAIL  
N.T.S.



6 TRENCHING DETAIL  
N.T.S.

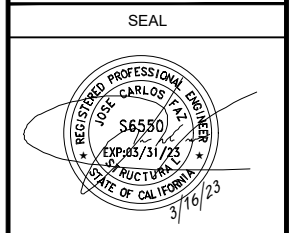


3 GROUNDING DETAIL  
N.T.S.



ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/15/21	90% CD	FR
B	09/16/21	90% CD	JW
0	12/30/21	100% CD	JW
1	01/18/22	PCC#1 ADDRESS UPDATE	MZ
2	05/05/22	PCC#2	IK



SITE INFORMATION

SITE ADDRESS:  
111 MARINDA DR,  
FAIRFAX, CA 94930

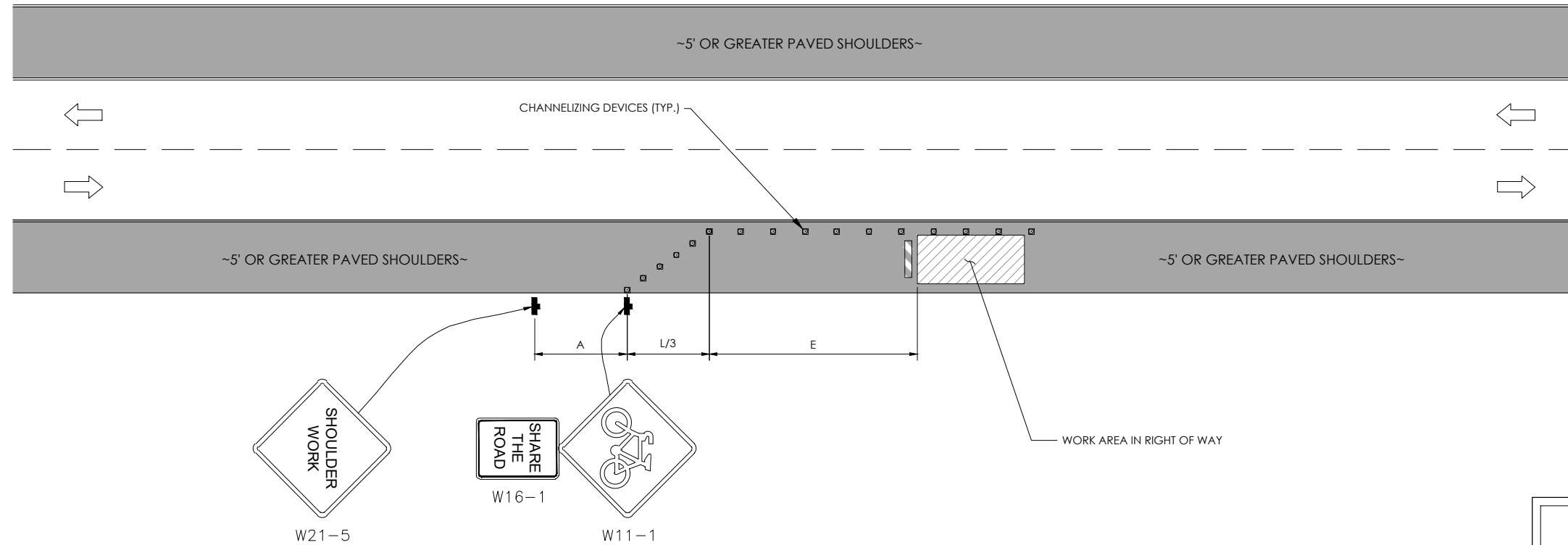
SHEET TITLE:  
**DETAILS**

**D1**

# TRAFFIC CONTROL FOR WORK ON SHOULDERS - RESIDENTIAL AREA

## WORK AREA TRAFFIC CONTROL HANDBOOK 2019 14TH EDITION

PER STANDARDS AND GUIDANCE OF CA-MUTCD



**GENERAL NOTES:**

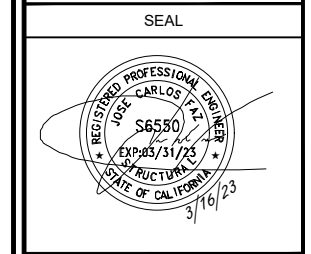
1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA 2010 STANDARD PLAN A20A.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE..
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ADJUTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE THE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC., FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
15. DIMENSIONS BASED ON GIS MAPPING DATA AND/OR RECORD DRAWINGS AND NOT A SURVEY.
16. TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
17. ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.

SPEED MPH (2)	DIMENSION A/B/C ADVANCE WARNING SIGN SPACING (5)	DIMENSION L MERGIN TAPER LENGTH	DIMENSION L/2 SHIFTING TAPER LENGTH	DIMENSION L/3 MINIMUM SHOULDER TAPER	DIMENSION "E" BUFFER SPACE (4 A) AND FLAGGER STATION STOPPING SIGHT DISTANCE (4 B) (0%) (3%) (6%)	MAXIMUM CHANNEUZER TAPER SPACING (3)	MAXIMUM CHANNEUZER TANGENT SPACING (3)	MAXIMUM CHANNEUZER CONFLICT SPACING (5)	
MPH	FT	ft	ft	ft	ft	ft	ft	ft	
25	100	125	65	45	(15.5) (16.0) (13.5)	25	50	12	
30	250	180	90	60	(20.0) (20.5) (21.5)	30	60	15	
35	250	245	125	85	(25.0) (26.0) (27.5)	35	70	17	
40	250	320	160	110	(30.5) (31.5) (33.5)	40	80	20	
45	350	540	270	180	(36.0) (38.0) (40.0)	45	90	22	
50	350	600	300	200	(42.5) (45.0) (47.5)	50	100	25	
55	500	660	330	220	(49.5) (52.0) (55.5)	50	100	25	
60	500	720	360	240	(57.0) (60.0) (64.0)	50	100	25	
65	500	780	390	260	(64.5) (68.5) (73.0)	50	100	25	
1	WORK ON FREEWAYS AND EXPRESSWAYS SHALL MEET THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATION REQUIREMENTS								
2	POSTED SPEED OR OBSERVED OPERATION SPEED (WHICHEVER IS GREATER)								
3	CHANNEUZER SPACING SHALL BE REDUCED BY HALF AT AREAS WHERE WORK IS TAKING PLACE ON CURVES OR AREAS OF HEAD-ON CONFLICT								
4 A	BUFFER SPACE MAY BE INSERTED IN LOW SPEED URBAN AREAS AND SHOULD BE INSERTED IN HIGH SPEED URBAN AND RURAL AREAS								
4 B	THE STOPPING SIGHT DISTANCE SHOULD ENABLE ROAD USERS TO SEE THE PRIMARY FLAGGER STATION AND SAFELY STOP								
5	SIGN SPACING IN RURAL AREAS SHOULD BE 500 FT								
6	** TABLE 6F 10.1 (CA)								

**WORK HOURS**  
7:00AM - 3:30PM



ISSUE STATUS			
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A	09/15/21	90% CD	FR
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0	12/30/21	100% CD	JW
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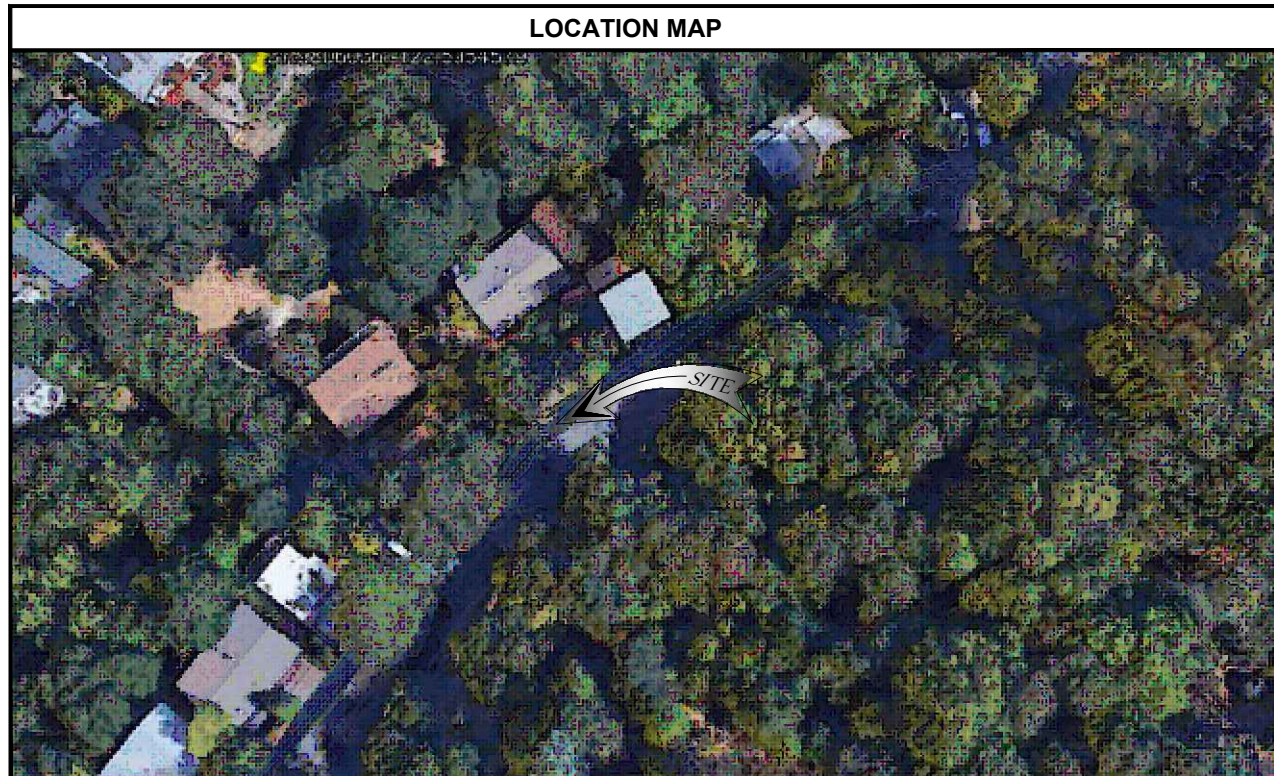
**SITE INFORMATION**

SITE ADDRESS:  
111 MARINDA DR,  
FAIRFAX, CA 94930

SHEET TITLE:  
**TRAFFIC CONTROL**

TC1





**AE TA1 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 ENERSYS SBS 190 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



**SITE ADDRESS:**  
**414 BOLINAS RD**  
**FAIRFAX, CA 94930**

**SITE INFORMATION**

SITE ADDRESS:	414 BOLINAS RD FAIRFAX, CA 94930
LATITUDE/LONGITUDE (NAD 83):	37.9806036, -122.5954579
JURISDICTION:	Town of Fairfax
POWER PROVIDER:	PG&E
AMP DRAW:	2.88

**DRAWING INDEX**

SHEET	DESCRIPTION
T1	TITLE SHEET AND SITE PLAN
LS1	LAND SURVEY
A0	ENLARGED SITE PLANS
A1	ELEVATIONS
D1	DETAILS
TC1	TRAFFIC CONTROL

**PROJECT TEAM**

<b>OWNER:</b>	COMCAST CABLE 3011 COMCAST PLACE LIVERMORE, CA 94551	<b>ENGINEER/ARCHITECT:</b>	J5 INFRASTRUCTURE PARTNERS JOSE M. MIRANDA ARCHITECT/ENGINEER CONTACT PH: (949) 247-7767 EMAIL: jmiranda@j5ip.com 23 MAUCHLY, SUITE 110 IRVINE, CALIFORNIA, 92618
<b>APPLICANT:</b>	ALPHA TECHNOLOGIES, INC. RICHARD A. SEIFF SERVICE OPERATIONS MANAGER ENERGY SYSTEMS AMERICAS PH: (331) 276-0232 EMAIL: rich.seiff@enersys.com		

**CODE COMPLIANCE**

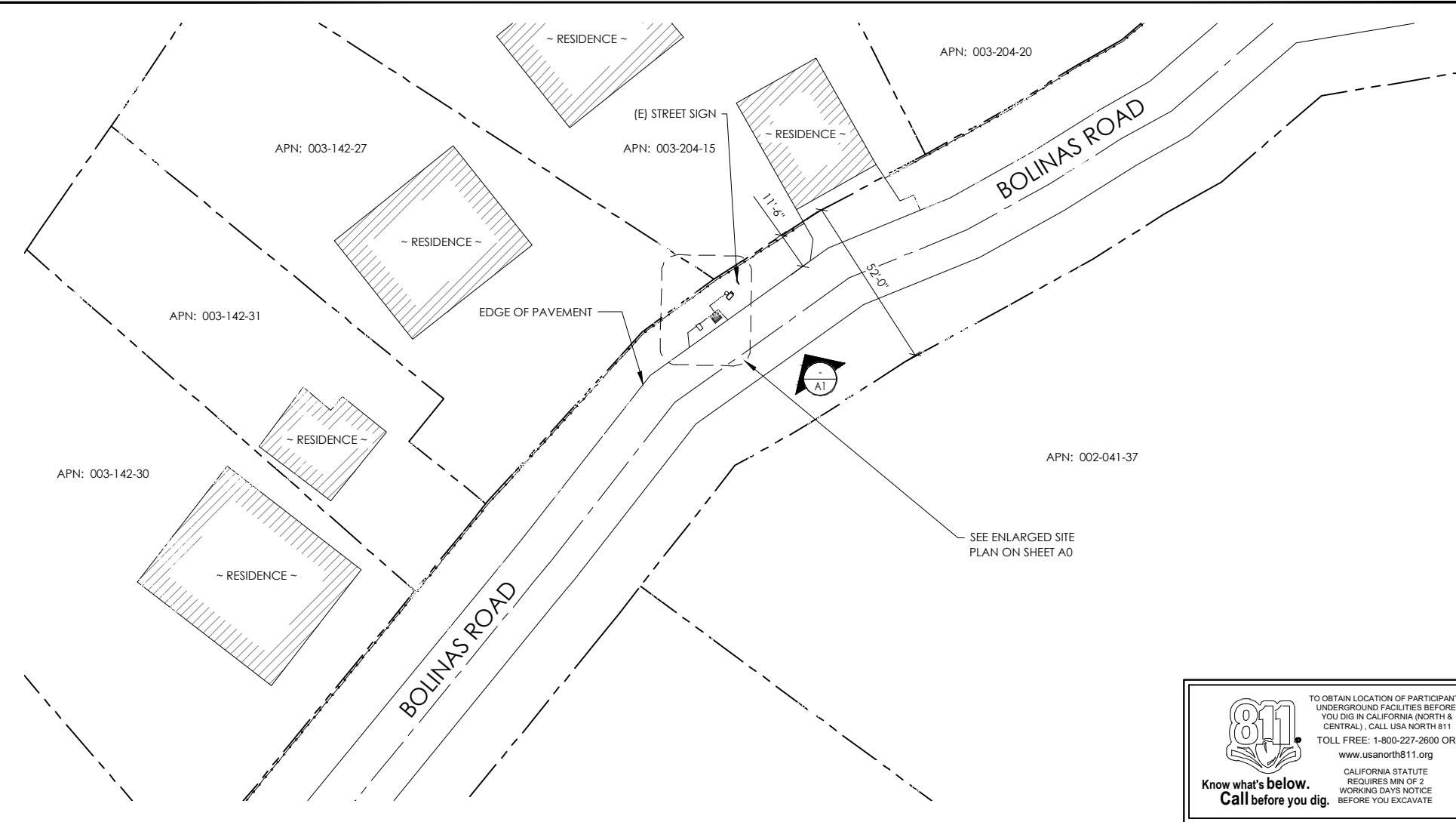
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. CALIFORNIA BUILDING STANDARDS CODE: 2019 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2020.	PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
PART 1 - CALIFORNIA ADMINISTRATIVE CODE	PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE	PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE	PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN)
PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE	PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE	2. ANSITIA-222 (REV H)
PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE	3. 2018 NFPA 101, LIFE SAFETY CODE
PART 6 - CALIFORNIA ENERGY CODE	4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
PART 7 - VACANT	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.



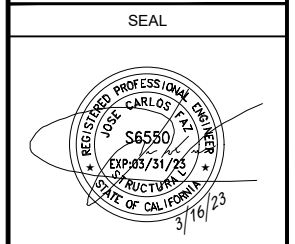
**SITE PLAN**

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



**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/18/21	90% CD	FR
B	09/22/21	90% CD	TT
0	01/06/22	100% CD	IK
1	05/04/22	PCC#1	IK



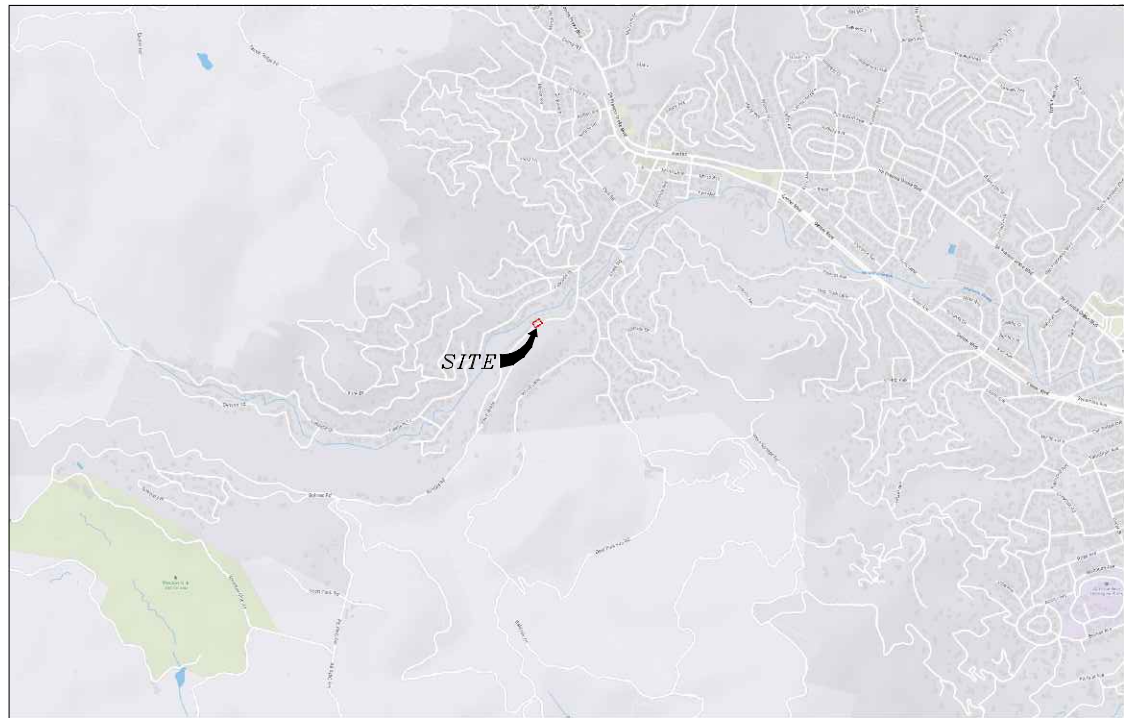
**SITE INFORMATION**

**SITE ADDRESS:**  
**414 BOLINAS RD,**  
**FAIRFAX, CA 94930**

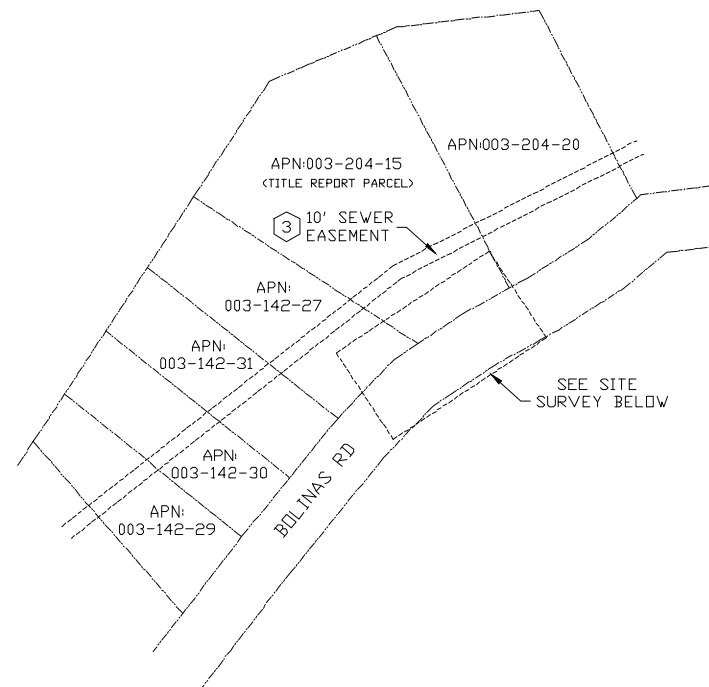
**SHEET TITLE:**  
**TITLE SHEET**

**T1**





VICINITY MAP  
N.T.S.



OVERALL SITE  
N.T.S.

**SURVEY DATE**  
01/27/2023

**BASIS OF BEARING**  
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE ZONE THREE, DETERMINED BY GPS OBSERVATIONS.

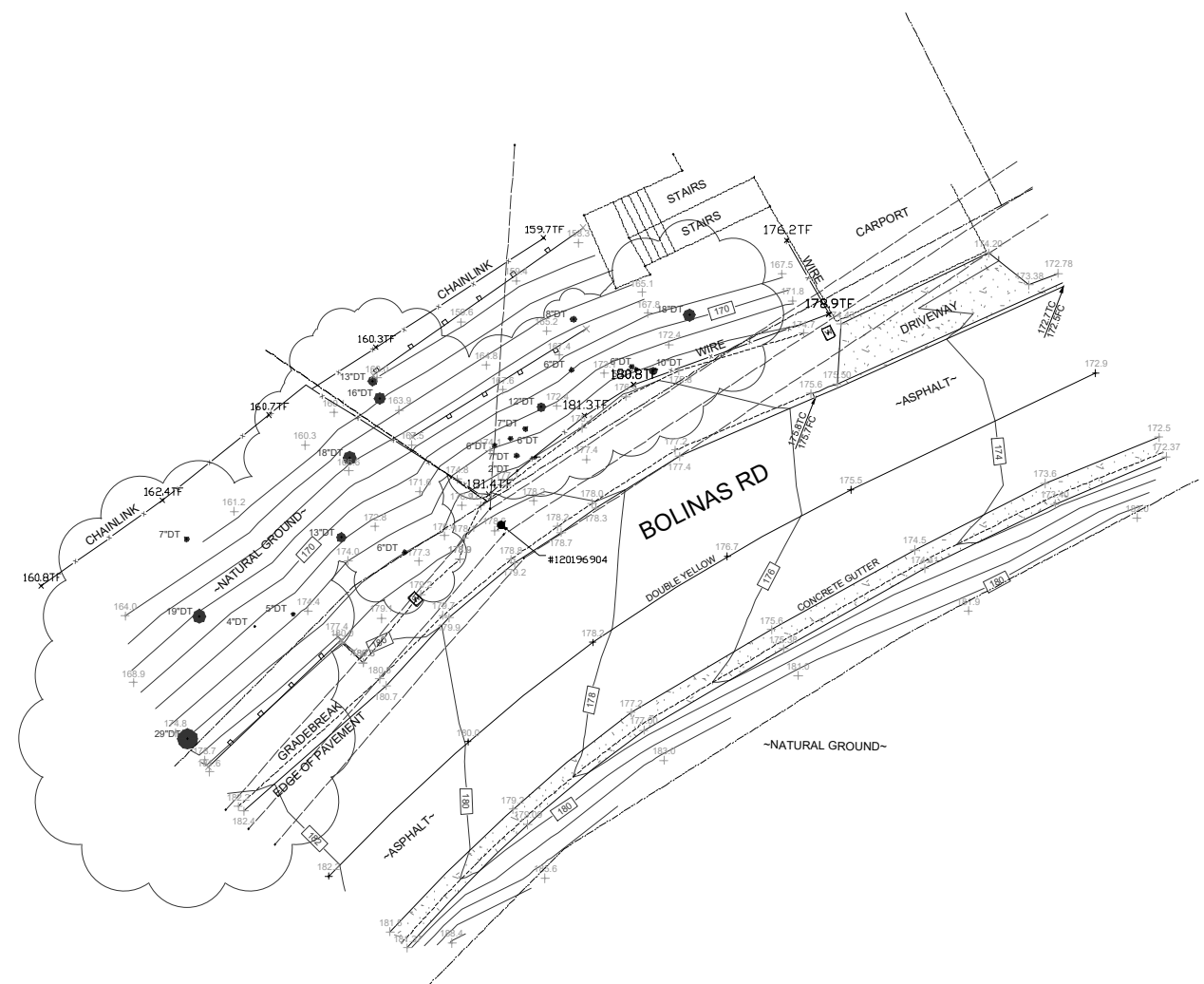
**BENCHMARK**  
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS 'GEOID 18' MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY OBSERVATIONS OF THE 'ORTN' REAL TIME NETWORK. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD83.

**FLOOD ZONE**  
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X". ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #06041C0415E, DATED 03/17/2014.

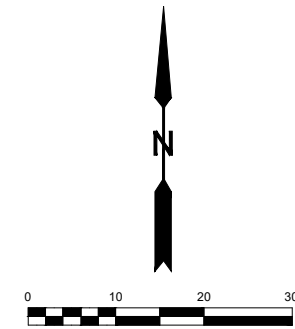
**UTILITY NOTES**  
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT B11 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**SURVEYOR'S NOTE**  
THE LOCATION AND DIMENSIONS SHOWN WERE TAKEN FROM THE MAP RECORDED IN BOOK 3 PAGE 24 OF RECORDS OF SURVEYS, BOOK 11 PAGE 38 OF MAPS, AND BOOK 4 PAGE 74 OF MAPS, MARIN COUNTY RECORDER AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTIES.

**TITLE REPORT DESCRIPTION**  
TITLE REPORT PARCEL  
APN: 003-204-15  
PREPARED USING AMERICAN TITLE'S TITLE REPORT #5026900-6942930 DATED 01/11/2023;  
PLOTTABLE TITLE REPORT ITEMS  
3. AN EASEMENT FOR INSTALLATION AND MAINTENANCE OF SANITARY SEWER PIPES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED MARCH 22, 1954 AS BOOK 856, PAGE 334 OF OFFICIAL RECORDS.



SITE SURVEY



- LEGEND**  
These standard symbols will be found in the drawing.
- CONCRETE
  - PROPERTY LINE
  - OVERHEAD LINE
  - FENCE
  - ROOF
  - WALL
  - ROCK WALL
  - HEADER
  - WATER METER
  - WATER VALVE
  - POWER POLE
  - ELEVATION GRADE
  - GUY WIRE
  - MAILBOX
  - WATER METER
  - SIGN
  - MANHOLE TELE
  - MANHOLE UTILITY
  - RECTANGLE INLET
  - SHRUB
  - TRUNK
  - CT CONIFEROUS TREE
  - DC DECIDUOUS TREE
  - TC TOP OF CURB
  - FC FACE OF CURB
  - TF TOP OF FENCE
  - TW TOP OF WALL

**COMCAST**  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**ALPHA**  
3767 ALPHA WAY  
BELLINGHAM, WA 98226

Eaton Land Surveying, Inc.  
15604 Magnolia Rd.  
Grass Valley, CA. 95949  
Ph. 530.830.0038

DRAWN BY: HE  
CHECKED BY: SE

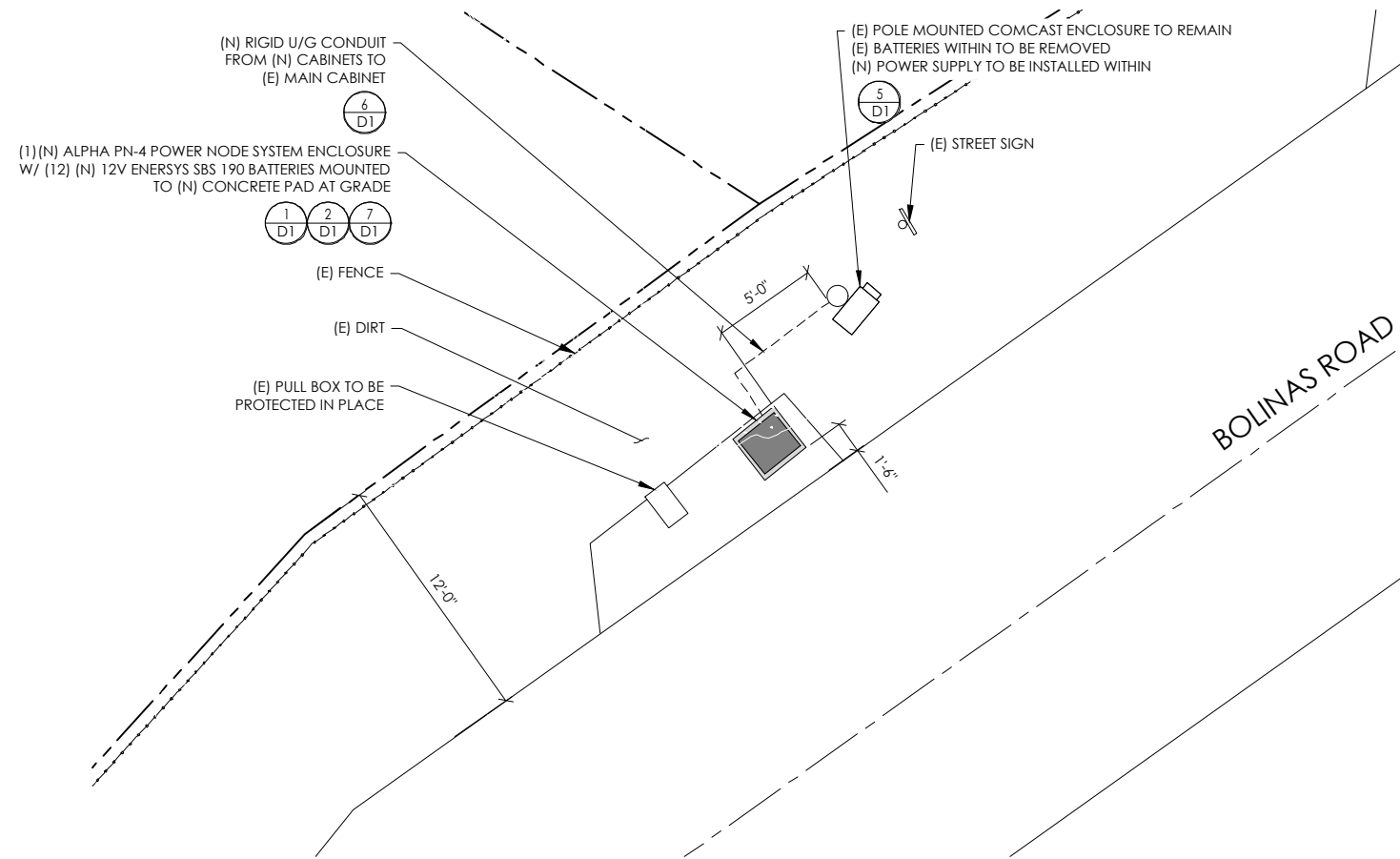
REVISIONS:		
REV	DATE	DESCRIPTION
0	02/08/23	SUBMITTAL



PROJECT INFORMATION:  
**P-062091**  
414 BOLINAS RD.  
FAIRFAX, CA. 94930  
MARIN COUNTY

SHEET TITLE:  
**SITE SURVEY**

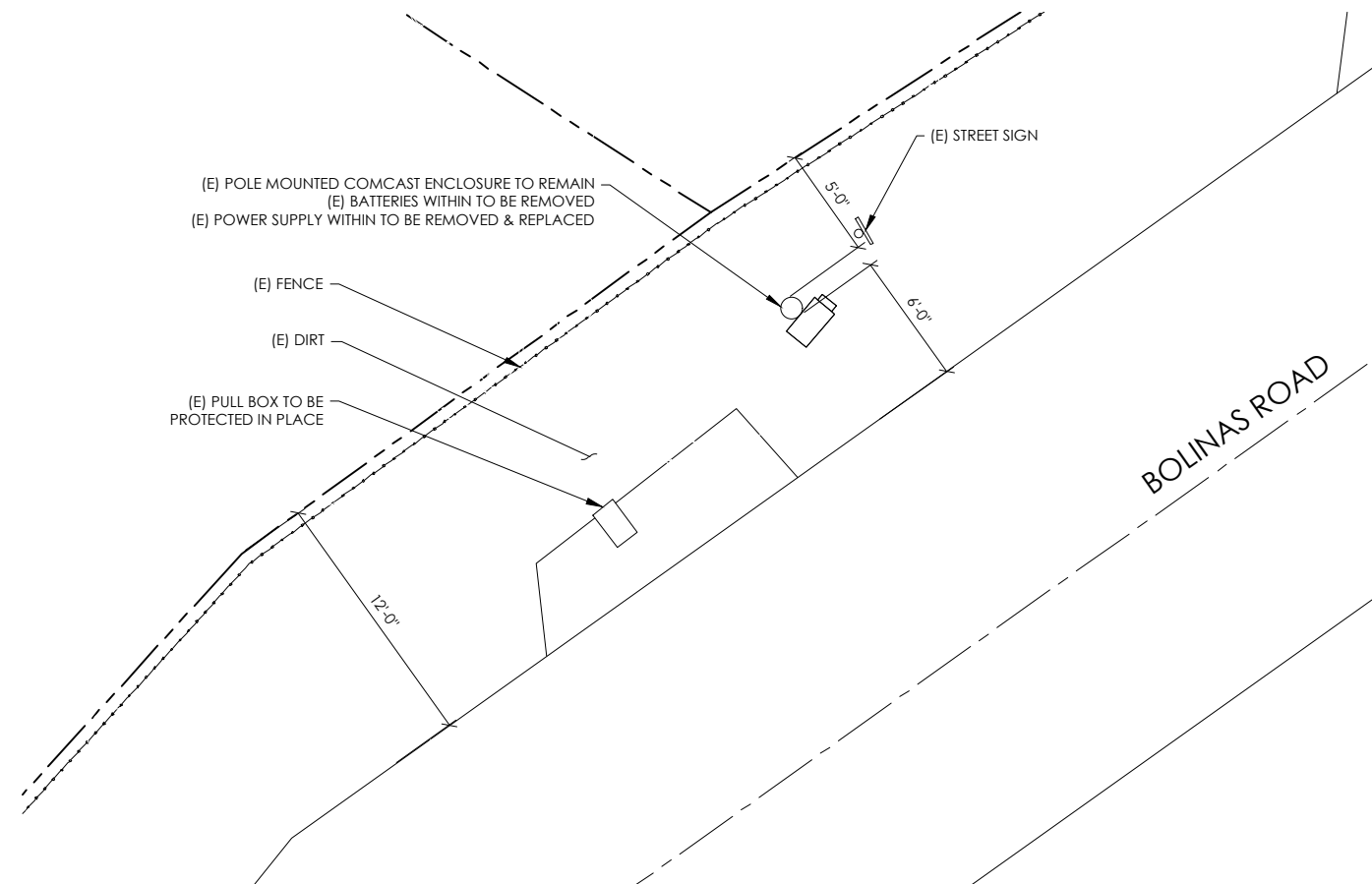
SHEET NUMBER:  
**LS-1**



PROPOSED ENLARGED SITE PLAN

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

1



EXISTING ENLARGED SITE PLAN

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

2



3011 COMCAST PLACE  
LIVERMORE, CA 94551



3767 ALPHA WAY  
BELLINGHAM, WA 98226



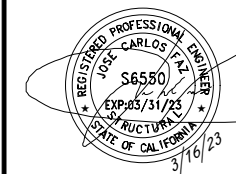
23 MAUCHLY, STE 110  
IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-062091

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/18/21	90% CD	FR
B	09/22/21	90% CD	TT
0	01/06/22	100% CD	IK
1	05/04/22	PCC#1	IK

SEAL

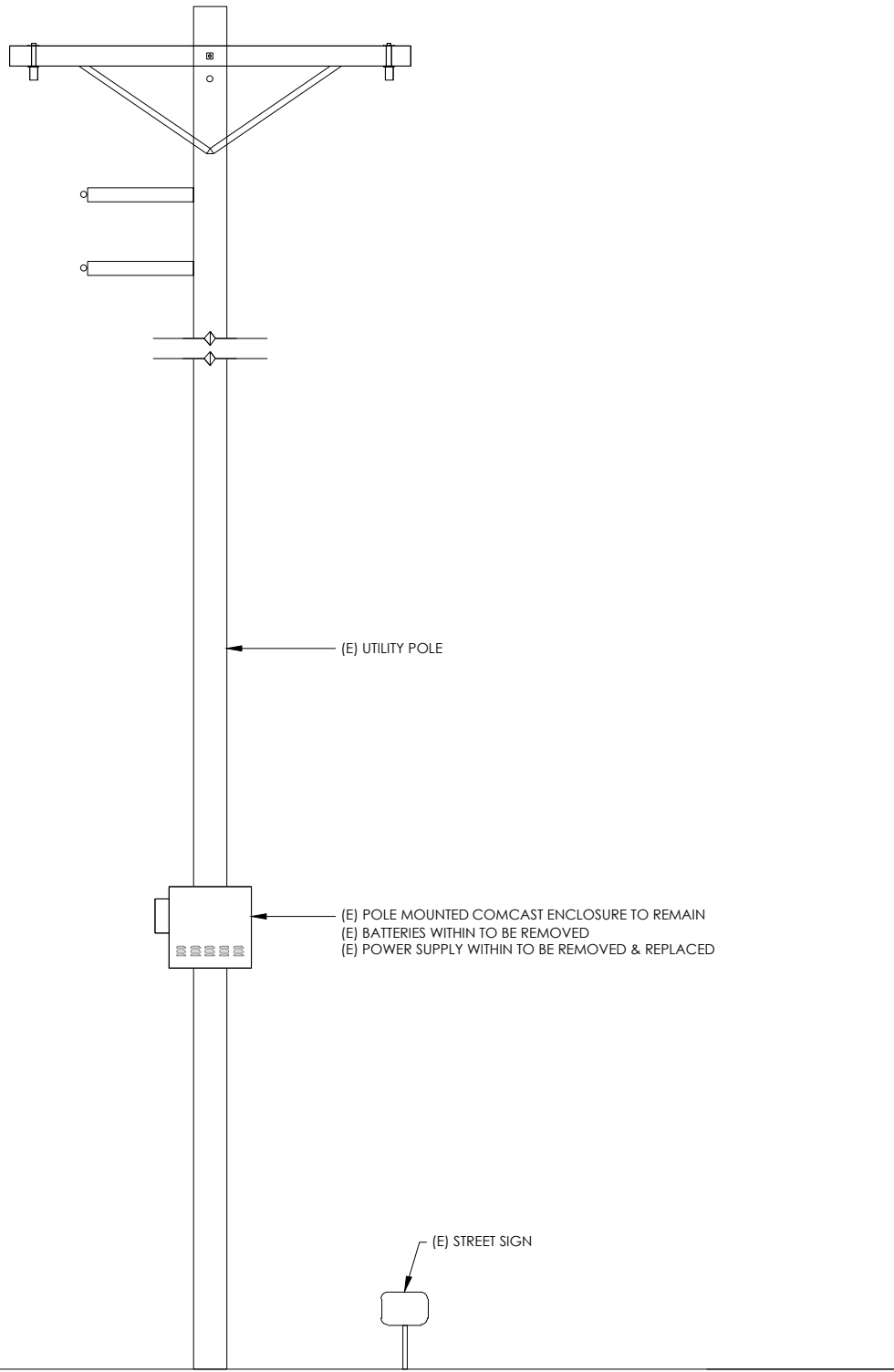


SITE INFORMATION

SITE ADDRESS:  
414 BOLINAS RD,  
FAIRFAX, CA 94930

SHEET TITLE:  
**ENLARGED  
SITE PLANS**

**A0**



(E) UTILITY POLE

(E) POLE MOUNTED COMCAST ENCLOSURE TO REMAIN  
(E) BATTERIES WITHIN TO BE REMOVED  
(E) POWER SUPPLY WITHIN TO BE REMOVED & REPLACED

(E) STREET SIGN

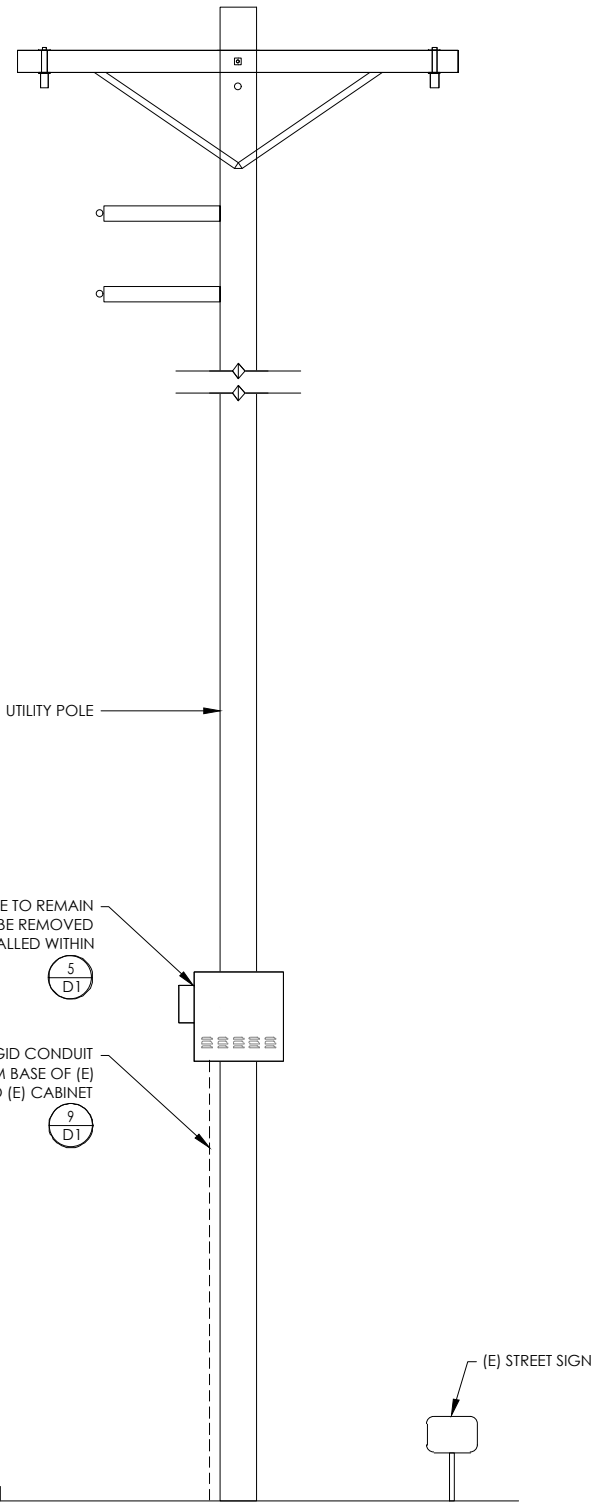
BOLINAS ROAD

EXISTING ELEVATION

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

CONDUIT ROUTING NOTE:  
1. GC TO ROUTE (N) 1-1/2" RIGID U/G CONDUIT FROM (N) CABINETS 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.



(E) UTILITY POLE

(E) POLE MOUNTED COMCAST ENCLOSURE TO REMAIN  
(E) BATTERIES WITHIN TO BE REMOVED  
(N) POWER SUPPLY TO BE INSTALLED WITHIN

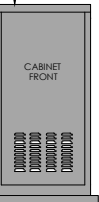
5  
D1

(N) 1-1/2" SCH 40 RIGID CONDUIT  
ROUTE UP FROM BASE OF (E)  
WOOD POLE TO (E) CABINET

9  
D1

(1)(N) ALPHA PN-4 POWER NODE SYSTEM ENCLOSURE  
W/ (12) (N) 12V ENERSYS SBS 190 BATTERIES MOUNTED  
TO (N) CONCRETE PAD AT GRADE

1 2 7  
D1 D1 D1



CABINET FRONT

5'-0"

(E) STREET SIGN

BOLINAS ROAD

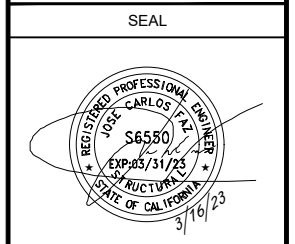
PROPOSED ELEVATION

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2" 1' 0" 2'



ISSUE STATUS

REV	DATE	DESCRIPTION	BY
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B	09/22/21	90% CD	TT
0	01/06/22	100% CD	IK
1	05/04/22	PCC#1	IK



SITE INFORMATION  
  
SITE ADDRESS:  
414 BOLINAS RD,  
FAIRFAX, CA 94930

SHEET TITLE:  
**ELEVATIONS**

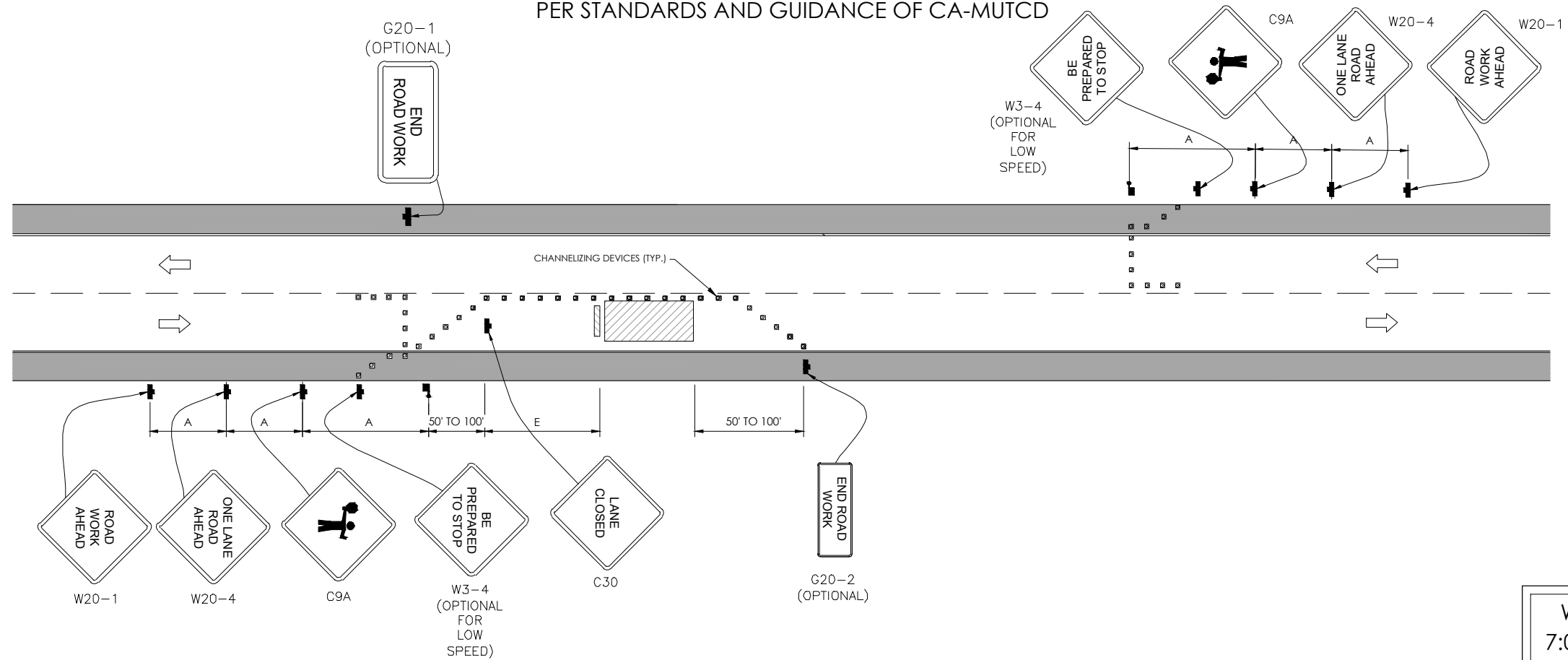
**A1**



# TRAFFIC CONTROL FOR LANE CLOSURE ON TWO LANE ROAD USING FLAGGERS

## WORK AREA TRAFFIC CONTROL HANDBOOK 2019 14TH EDITION

PER STANDARDS AND GUIDANCE OF CA-MUTCD



### GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
- ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA 2010 STANDARD PLAN A20A.
- THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
- FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
- ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
- ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE.
- THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ADJUTING PROPERTY OWNERS.
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- EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
- MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC., FROM TRAVEL LANE.
- REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
- ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
- DIMENSIONS BASED ON GIS MAPPING DATA AND/OR RECORD DRAWINGS AND NOT A SURVEY.
- TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
- ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.

SPEED MPH (2)	DIMENSION A/B/C ADVANCE WARNING SIGN SPACING (5)	DIMENSION L MERGIN TAPER LENGTH	DIMENSION L/2 SHIFTING TAPER LENGTH	DIMENSION L/3 MINIMUM SHOULDER TAPER	DIMENSION "E" BUFFER SPACE (A - A) AND FLAGGER STATION STOPPING SIGHT DISTANCE (4 B) (0%) (3%) (6%)			MAXIMUM CHANNEUZER TAPER SPACING (3)	MAXIMUM CHANNEUZER TANGENT SPACING (3)	MAXIMUM CHANNEUZER CONFLICT SPACING (6)
					ft	ft	ft			
25	100	125	65	45	(15.5)	(16.0)	(13.5)	25	50	12
30	250	180	90	60	(20.0)	(20.5)	(21.5)	30	60	15
35	250	245	125	85	(25.0)	(26.0)	(27.5)	35	70	17
40	250	320	150	110	(30.5)	(31.5)	(33.5)	40	80	20
45	350	540	270	180	(36.0)	(38.0)	(40.0)	45	90	22
50	350	600	300	200	(42.5)	(45.0)	(47.5)	50	100	25
55	500	660	330	220	(49.5)	(52.0)	(55.5)	50	100	25
60	500	720	360	240	(57.0)	(60.0)	(64.0)	50	100	25
65	500	780	390	260	(64.5)	(68.5)	(73.0)	50	100	25
1	WORK ON FREEWAYS AND EXPRESSWAYS SHALL MEET THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATION REQUIREMENTS									
2	POSTED SPEED OR OBSERVED OPERATION SPEED (WHICHEVER IS GREATER)									
3	CHANNEUZER SPACING SHALL BE REDUCED BY HALF AT AREAS WHERE WORK IS TAKING PLACE ON CURVES OR AREAS OF HEAD ON CONFLICT									
4 A	BUFFER SPACE MAY BE INSERTED IN LOW SPEED URBAN AREAS AND SHOULD BE INSERTED IN HIGH SPEED URBAN AND RURAL AREAS									
4 B	THE STOPPING SIGHT DISTANCE SHOULD ENABLE ROAD USERS TO SEE THE PRIMARY FLAGGER STATION AND SAFELY STOP									
5	SIGN SPACING IN RURAL AREAS SHOULD BE 500 FT									
6	** TABLE 6F-10.1 (CA)									



3011 COMCAST PLACE  
LIVERMORE, CA 94551



3767 ALPHA WAY  
BELLINGHAM, WA 98226



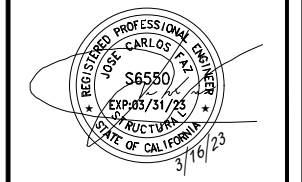
23 MAUCHLY, STE 110  
IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-062091

### ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/18/21	90% CD	FR
B	09/22/21	90% CD	TT
0	01/06/22	100% CD	IK
1	05/04/22	PCC#1	IK

SEAL



SITE INFORMATION

SITE ADDRESS:  
414 BOLINAS RD.  
FAIRFAX, CA 94930

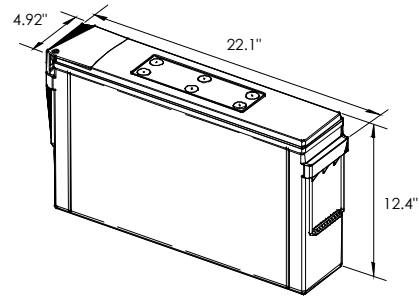
SHEET TITLE:

TRAFFIC CONTROL

TC1



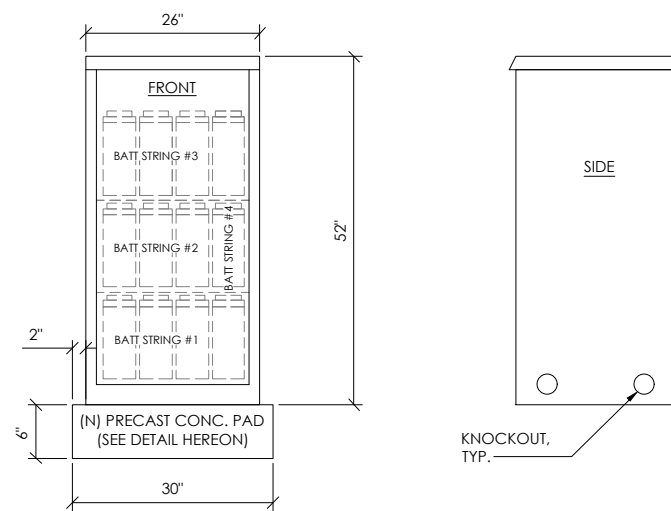
ENERSYS  
SBS 190F BATTERY UNIT



EQUIPMENT SPECIFICATIONS (1 UNIT)	
MFG:	ENERSYS
MODEL:	SBS 190 FT
HEIGHT:	12.4 IN
WIDTH:	4.92 IN
LENGTH:	22.1 IN
WEIGHT:	132 LBS

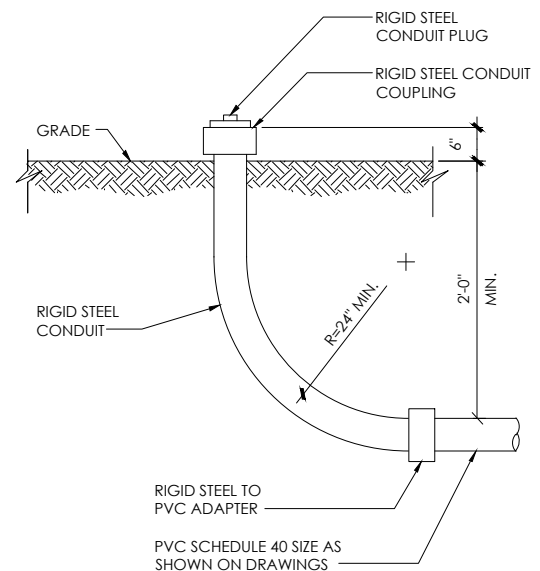
BATTERY INFORMATION (VRLA TYPE BATTERIES)										
INSTALL STATUS	BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED	VOLTAGE (V)	AMP HOURS (AH)	KWh, Kilowatt hours = (V*AH)/1000	TOTAL BATTERY CAPACITY, KWh	STATIONARY BATTERY STORAGE SYSTEM THRESHOLD QUANTITY, PER CFC 2019 SECTION 1206	STATIONARY BATTERY STORAGE SYSTEM CODE CHECK	TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT	TOTAL ELECTROLYTE BY VOLUME (GALLONS) -
PROPOSED	POWERSAFE SBS 190F	12	12	190	2.28	27.36			2.34	28.08
TOTAL		12				27.36	70	CFC 2019 SECTION 1206 DOES NOT APPLY		28.08

7 BATTERY SPECIFICATIONS  
N.T.S.

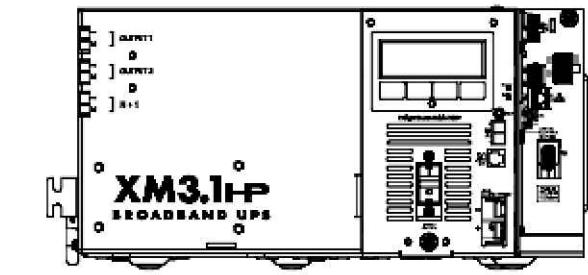


CABINET SPECIFICATIONS	
MANUFACTURER:	ALPHA
MODEL:	PN-4
HEIGHT:	52"
WIDTH:	26"
DEPTH:	24"
WEIGHT (EMPTY):	180 LBS.
WEIGHT (W/ BATTERIES):	1,764 LBS.
MATERIAL:	ALUMINUM
BATTERY CONFIGURATION:	
CABINET # 1:	(4) BATTERY STRINGS

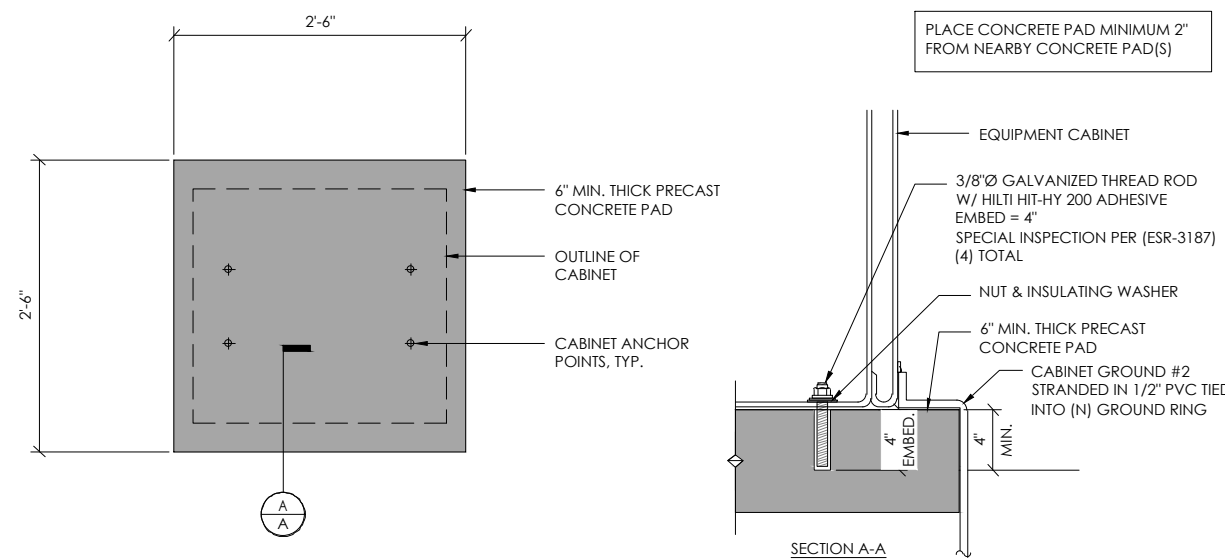
1 EQUIPMENT CABINET DETAIL  
N.T.S.



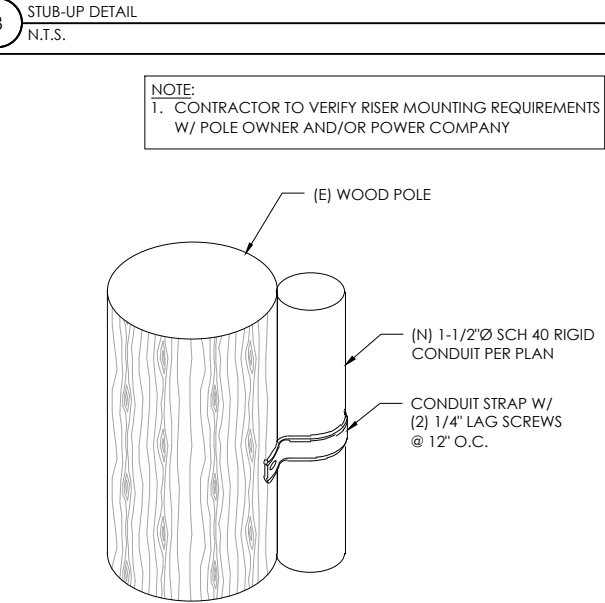
EQUIPMENT SPECIFICATIONS	
MFG:	ALPHA
MODEL:	XM3.1-HP
HEIGHT:	7.76 IN
WIDTH:	16.43 IN
DEPTH:	10.57 IN
WEIGHT:	61 LBS



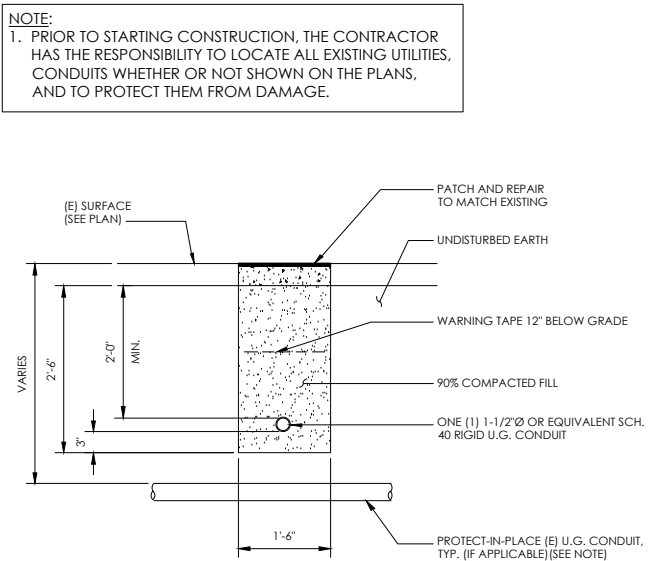
5 POWER SUPPLY DETAIL  
N.T.S.



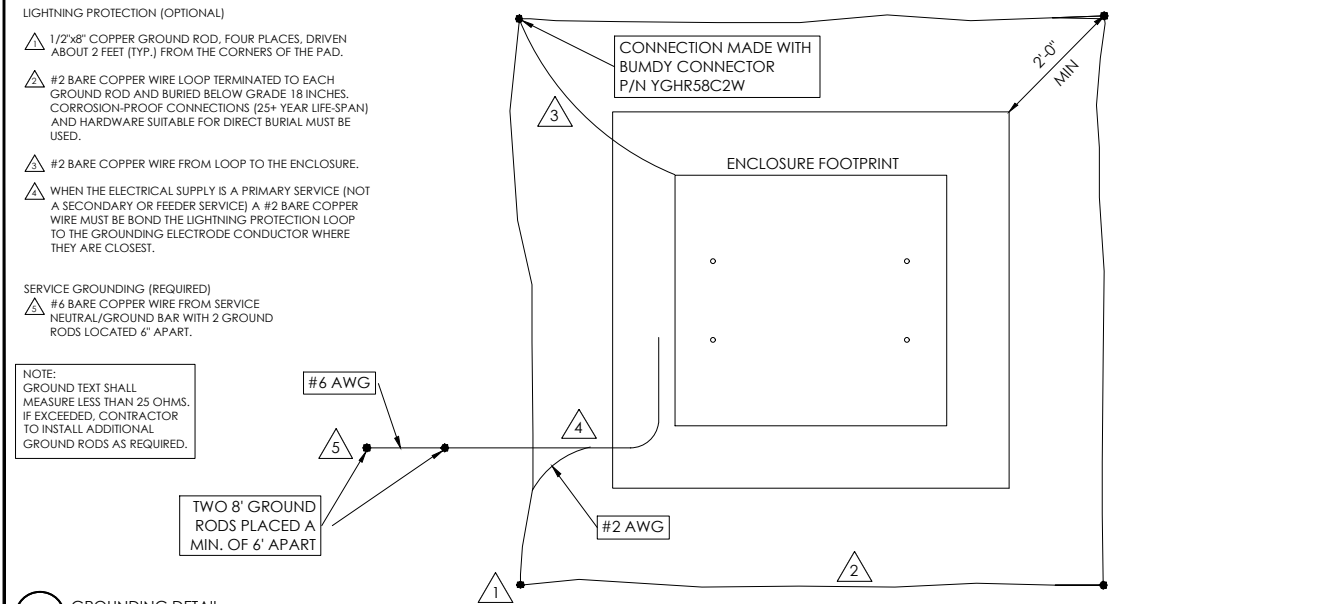
2 CONCRETE PAD & ANCHORAGE DETAIL  
N.T.S.



9 CONDUIT RISER ATTACHMENT DETAIL  
N.T.S.



6 TRENCHING DETAIL  
N.T.S.



3 GROUNDING DETAIL  
N.T.S.

**COMCAST**  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**alpha**  
AN ENERSYS COMPANY  
3767 ALPHA WAY  
BELLINGHAM, WA 98226

**INFRASTRUCTURE**  
23 MAUCHLY, STE 110  
IRVINE, CA 92618  
J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-062091

ISSUE STATUS			
REV	DATE	DESCRIPTION	BY
A	09/18/21	90% CD	FR
B	09/22/21	90% CD	TT
0	01/06/22	100% CD	IK
1	05/04/22	PCC#1	IK

SEAL

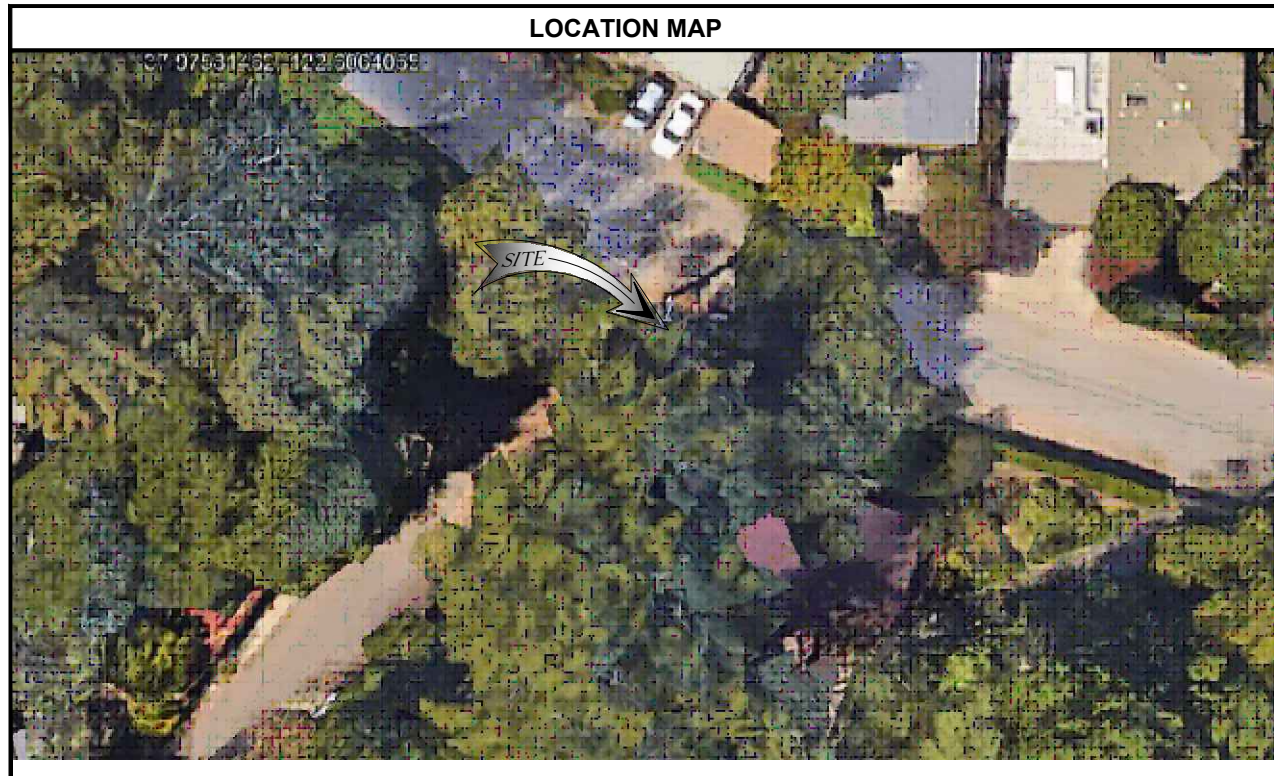
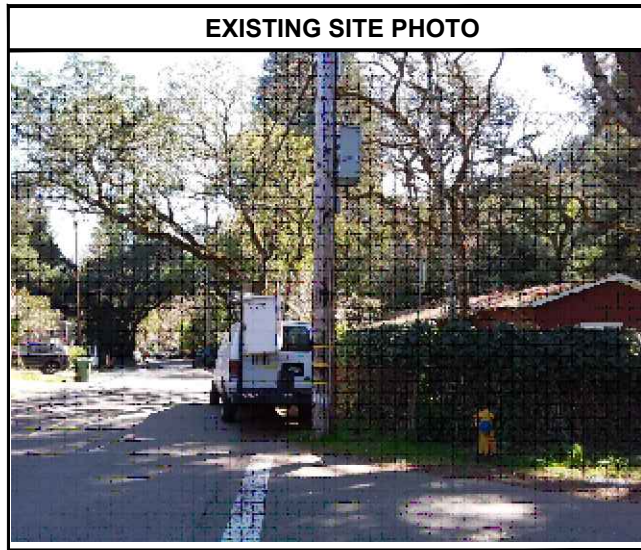
SITE INFORMATION

SITE ADDRESS:  
414 BOLINAS RD.  
FAIRFAX, CA 94930

SHEET TITLE:  
**DETAILS**

**D1**

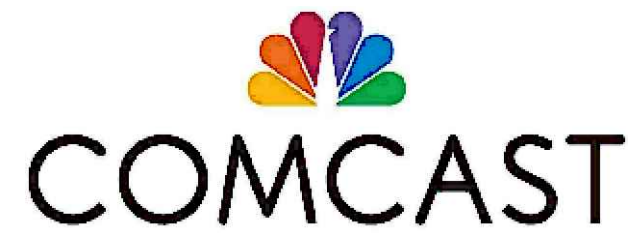




**AE TA4 SCOPE OF WORK**

THIS PROJECT MODIFICATION OF EXISTING CONSISTS OF:

- INSTALLATION OF (2) (N) ALPHA PN-4 POWERNODE SYSTEM ENCLOSURE
- INSTALLATION OF (18) (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



**SITE ADDRESS:**  
 445 CASCADE DR  
 FAIRFAX, CA 94930

**SITE INFORMATION**

SITE ADDRESS: 445 CASCADE DR FAIRFAX, CA 94930

LATITUDE/LONGITUDE (NAD 83): 37.97581462, -122.6064055

JURISDICTION: Town of Fairfax

POWER PROVIDER: PG&E

AMP DRAW: 5.43

**DRAWING INDEX**

SHEET	DESCRIPTION
T1	TITLE SHEET AND SITE PLAN
LS1	LAND SURVEY
A0	ENLARGED SITE PLANS
A1	ELEVATIONS
D1	DETAILS
TC1	TRAFFIC CONTROL 1

**PROJECT TEAM**

OWNER: COMCAST CABLE 3011 COMCAST PLACE LIVERMORE, CA 94551	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 8 - CALIFORNIA HISTORICAL BUILDING CODE
PART 1 - CALIFORNIA ADMINISTRATIVE CODE	PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018 INTERNATIONAL FIRE CODE
PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2018 INTERNATIONAL BUILDING CODE	PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2018 INTERNATIONAL EXISTING BUILDING CODE
PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE	PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (ALSO KNOWN AS CALGREEN)
PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2017 NATIONAL ELECTRICAL CODE	PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2018 UNIFORM MECHANICAL CODE	2. ANSITIA-222 (REV H)
PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2018 UNIFORM PLUMBING CODE	3. 2018 NFPA 101, LIFE SAFETY CODE
PART 6 - CALIFORNIA ENERGY CODE	4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
PART 7 - VACANT	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.



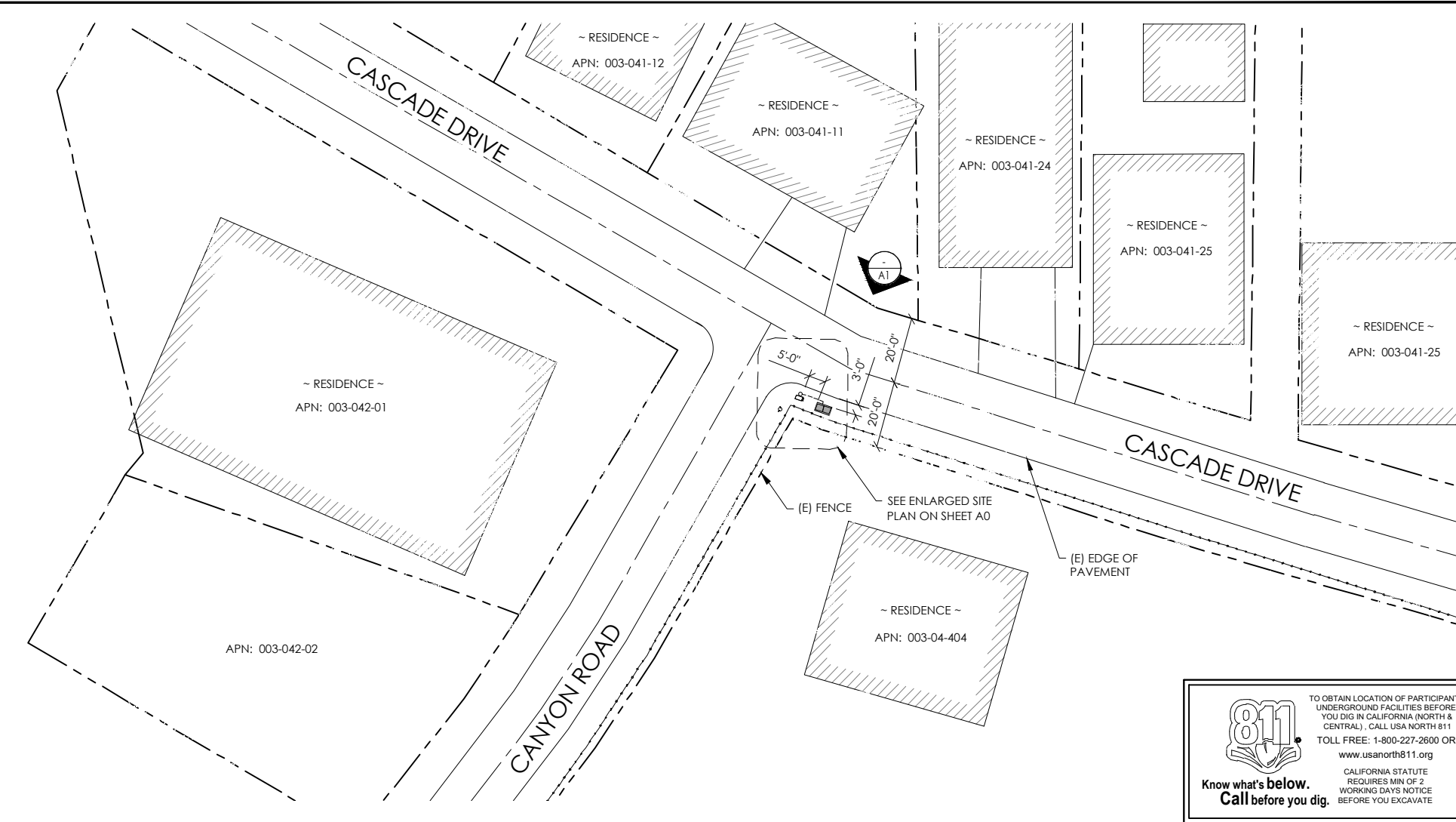
**J5 INFRASTRUCTURE**

23 MAUCHLY, STE 110  
 IRVINE, CA 92618

J5 PROGRAM ID: ALP-CA-CPUC  
 J5 PROJECT ID: P-042161

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/18/21	90% CD	NA
B	09/22/21	90% CD	TT
0	01/07/22	100% CD	BN
1	05/04/22	PCC # 1	IK
2	03/16/23	PCC # 2	MZ

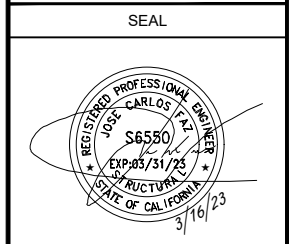


TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN CALIFORNIA (NORTH & CENTRAL), CALL USA NORTH 811  
 TOLL FREE: 1-800-227-2600 OR  
 www.usanorth811.org

CALIFORNIA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

**SITE PLAN**

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

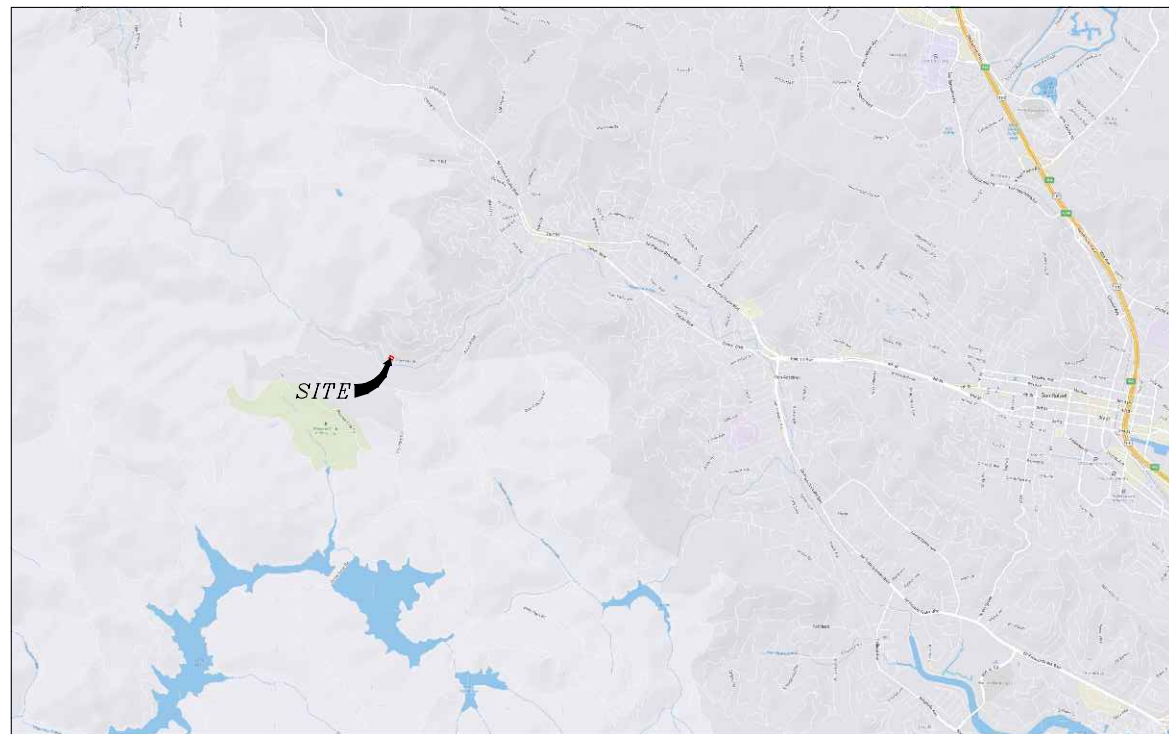


**SITE INFORMATION**

SITE ADDRESS:  
 445 CASCADE DR,  
 FAIRFAX, CA 94930

SHEET TITLE:  
**T1**





VICINITY MAP  
N.T.S.

**SURVEY DATE**  
01/25/2023

**BASIS OF BEARING**  
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE ZONE THREE, DETERMINED BY GPS OBSERVATIONS.

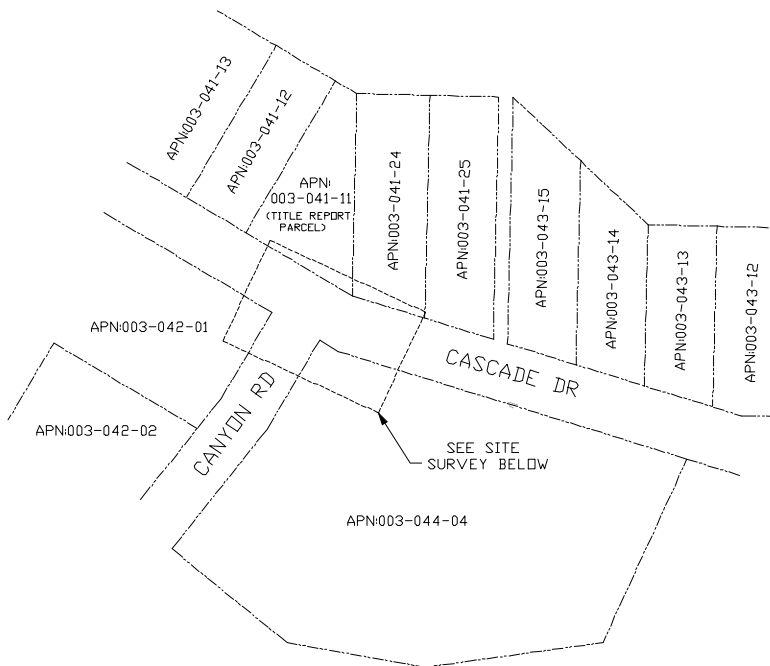
**BENCHMARK**  
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS 'GEOID 18' MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY OBSERVATIONS OF THE 'CRN' REAL TIME NETWORK. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD83.

**FLOOD ZONE**  
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X", ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #06041C0451E, DATED 03/17/2014.

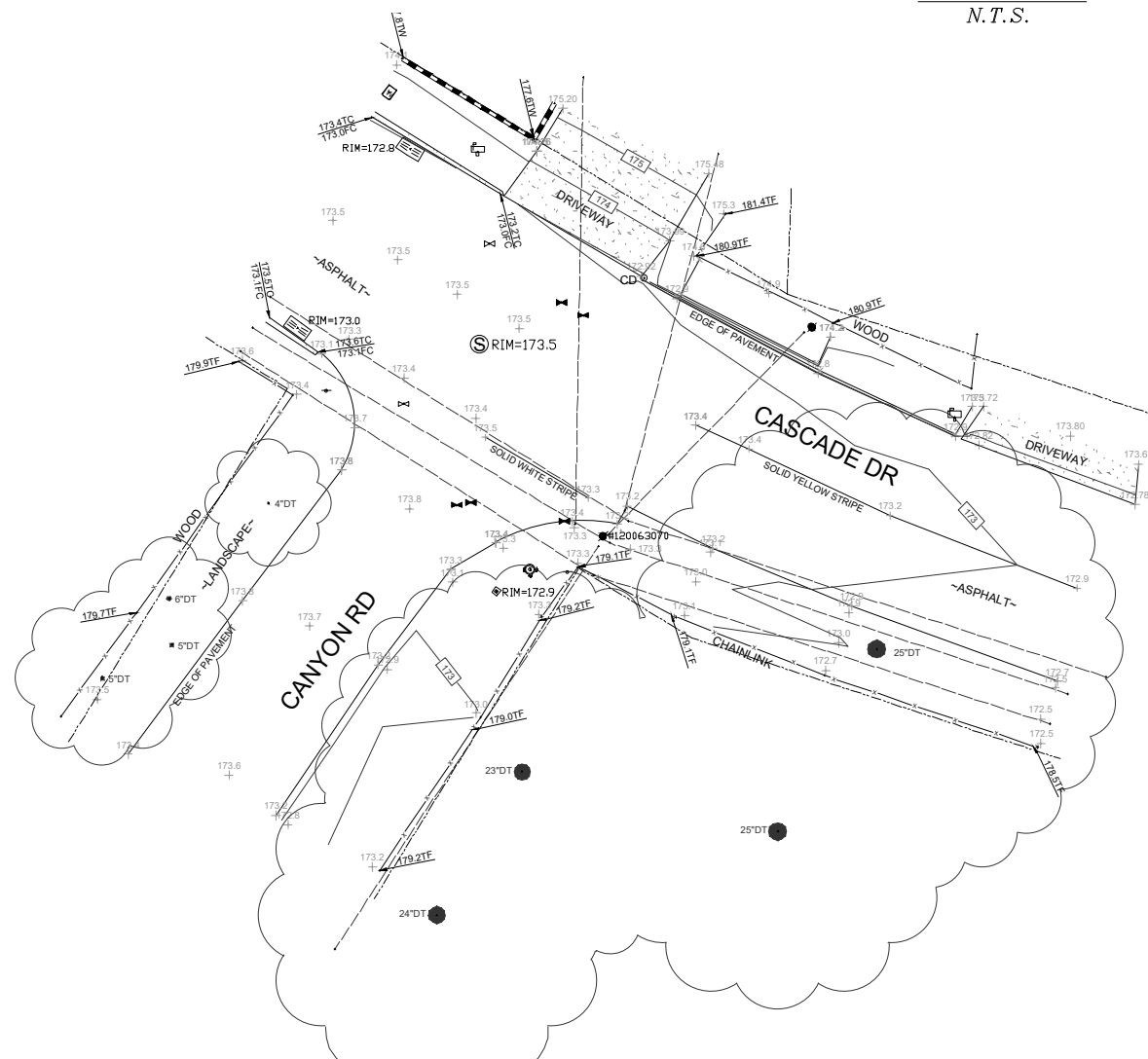
**UTILITY NOTES**  
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT 811 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**SURVEYOR'S NOTE**  
THE LOCATION AND DIMENSIONS SHOWN WERE TAKEN FROM THE MAP(S) RECORDED IN BOOK 5 PAGE 14 OF MAPS AND BOOK 6 PAGE 114 OF RECORDS OF SURVEYS, MARIN COUNTY RECORDER AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTIES.

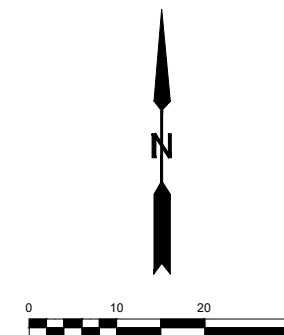
**TITLE REPORT DESCRIPTION**  
TITLE REPORT PARCEL  
APN:003-041-11  
PREPARED USING AMERICAN TITLE'S TITLE REPORT #5026900-6942935 DATED 01/11/2023;



OVERALL SITE  
N.T.S.



SITE SURVEY



**LEGEND**

These standard symbols will be found in the drawing.

- CONCRETE
- PROPERTY LINE
- CENTER LINE
- OVERHEAD LINE
- FENCE
- ROOF WALL
- ROCK WALL
- WATER METER
- WATER VALVE
- POWER POLE
- ELEVATION GRADE
- GUY WIRE
- MAILBOX
- SIGN
- MANHOLE TELE
- MANHOLE UTILITY
- RECTANGLE INLET
- SHRUB
- TRUNK
- CT CONIFEROUS TREE
- DC DECIDUOUS TREE
- TC TOP OF CURB
- FC FACE OF CURB
- TF TOP OF FENCE
- TW TOP OF WALL
- CD CURB DRAIN

**COMCAST**  
3011 COMCAST PLACE  
LIVERMORE, CA 94551

**ALPHA**  
3767 ALPHA WAY  
BELLINGHAM, WA 98226



Eaton Land  
Surveying, Inc.

15604 Magnolia Rd.  
Grass Valley, CA. 95949  
Ph. 530.830.0038

DRAWN BY: HE  
CHECKED BY: SE

REVISIONS:		
REV	DATE	DESCRIPTION
0	02/08/23	SUBMITTAL



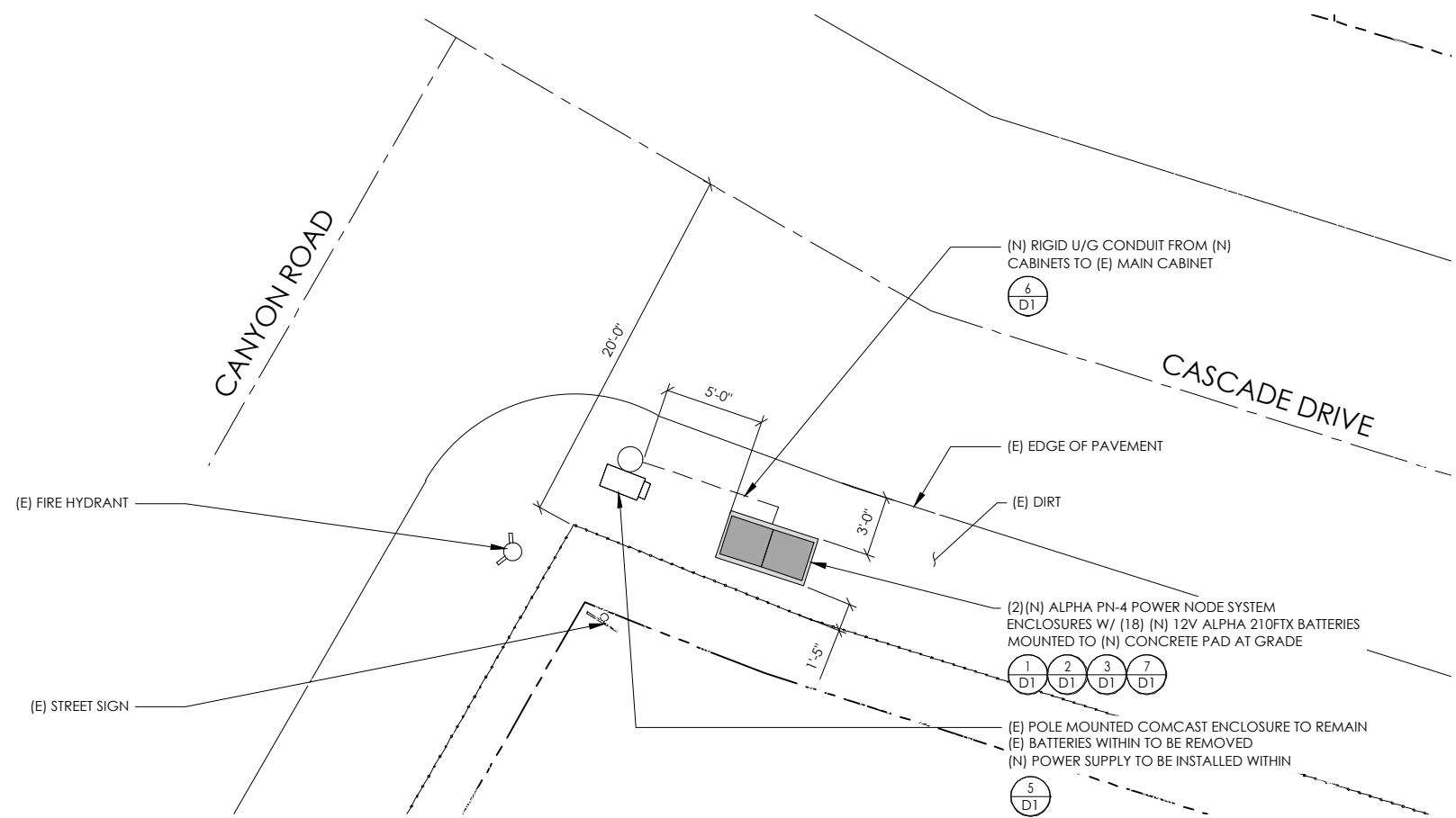
PROJECT INFORMATION:  
**P-062161**  
445 CASCADE DR.  
FAIRFAX, CA. 94930  
MARIN COUNTY

SHEET TITLE:  
**SITE SURVEY**

SHEET NUMBER:  
**LS-1**

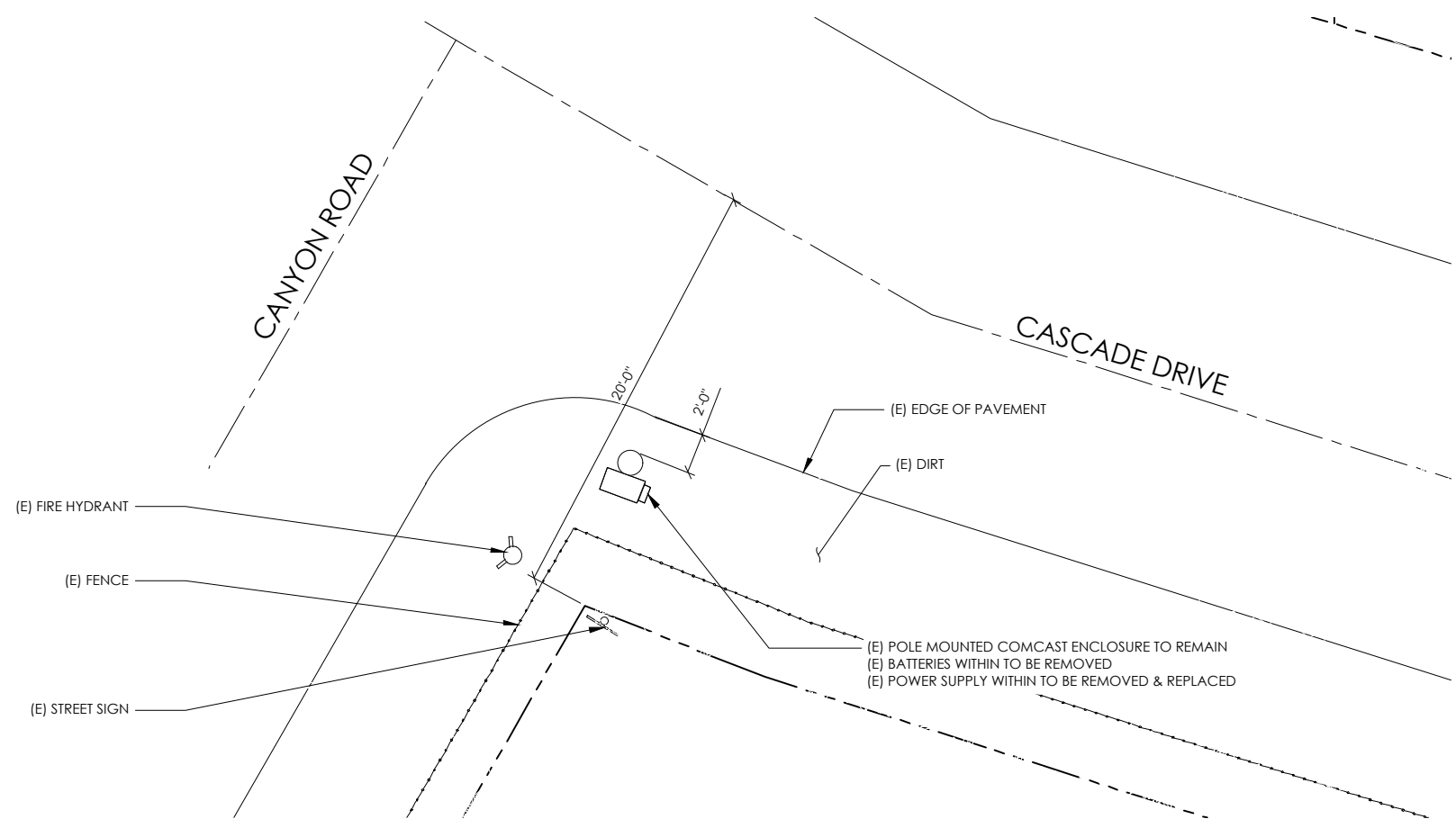
### ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	09/18/21	90% CD	NA
B	09/22/21	90% CD	TT
0	01/07/22	100% CD	BN
1	05/04/22	PCC # 1	IK
2	03/16/23	PCC # 2	MZ



PROPOSED ENLARGED SITE PLAN

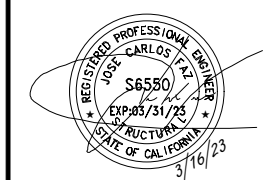
24"x36" SCALE: 1/4" = 1'-0"  
 11"x17" SCALE: 1/8" = 1'-0"  
 1



EXISTING ENLARGED SITE PLAN

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

SEAL



SITE INFORMATION

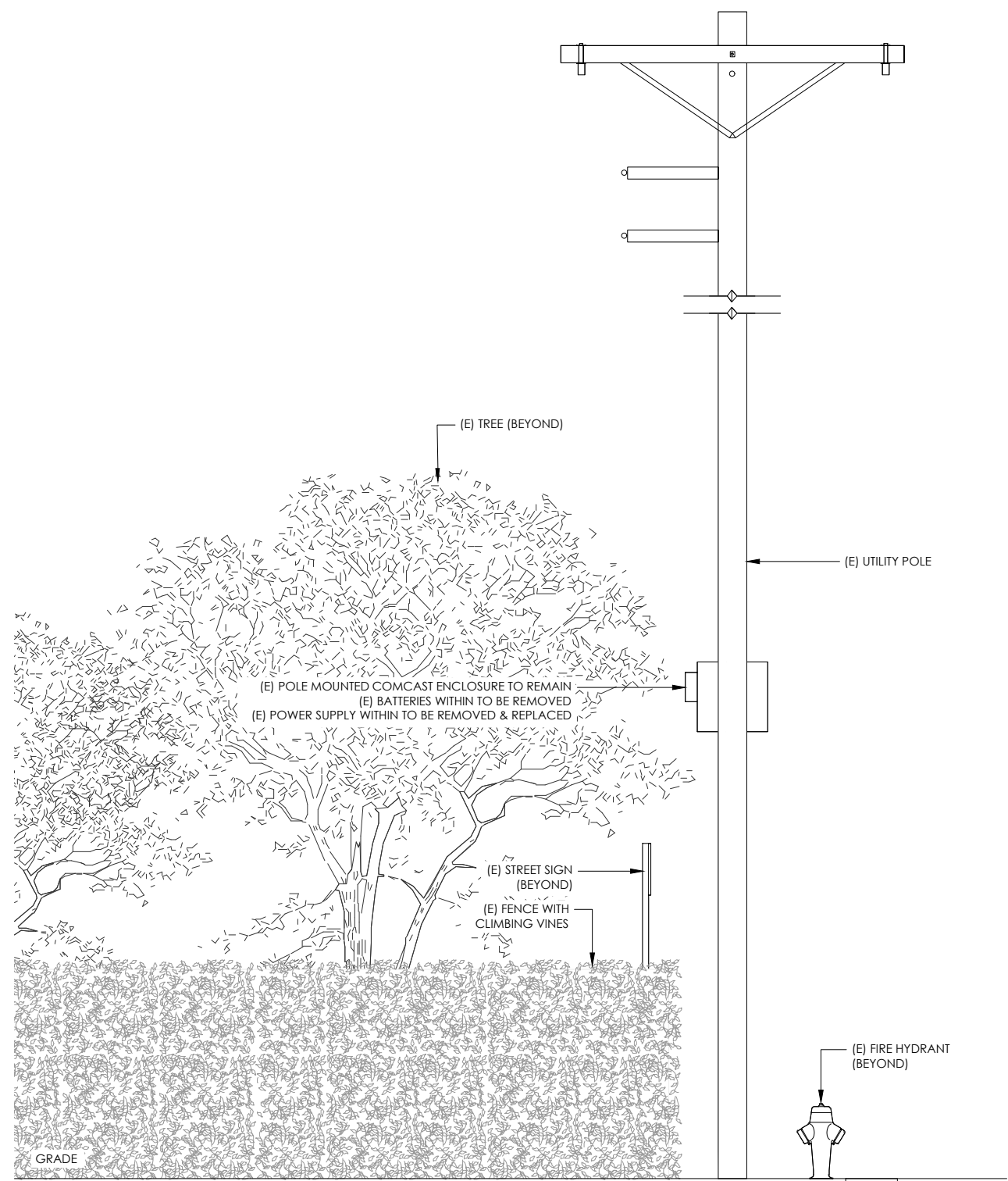
SITE ADDRESS:  
 445 CASCADE DR,  
 FAIRFAX, CA 94930

SHEET TITLE:  
**ENLARGED  
 SITE PLANS**

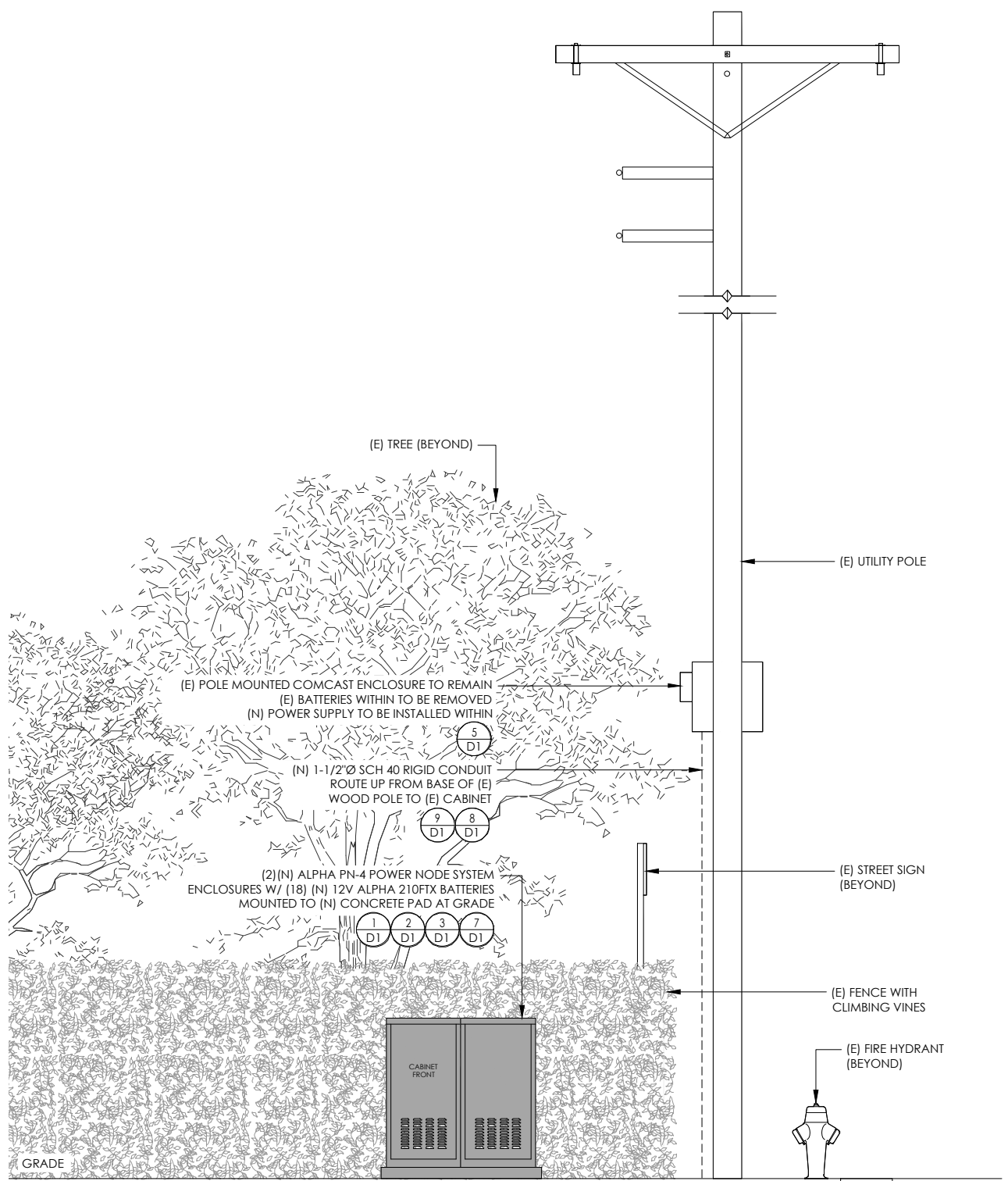
**A0**

CONDUIT ROUTING NOTE:  
 1. GC TO ROUTE (N) 1-1/2" RIGID U/G CONDUIT FROM (N) CABINETS 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.



CASCADE DRIVE



CASCADE DRIVE

EXISTING ELEVATION

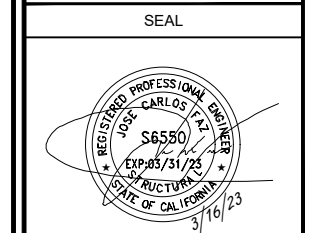
24"x36" SCALE: 1/2" = 1'-0"  
 11"x17" SCALE: 1/4" = 1'-0"  
 2' 1' 0" 2'

PROPOSED ELEVATION

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



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0	01/07/22	100% CD	BN
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SITE INFORMATION  
 SITE ADDRESS:  
 445 CASCADE DR,  
 FAIRFAX, CA 94930

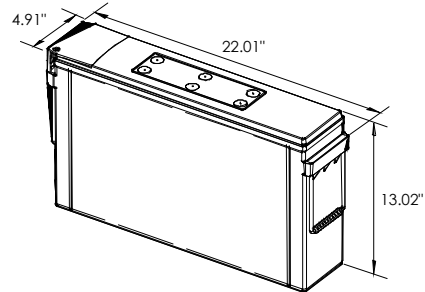
SHEET TITLE:  
**ELEVATIONS**

**A1**





ALPHA  
210 FTX BATTERY UNIT

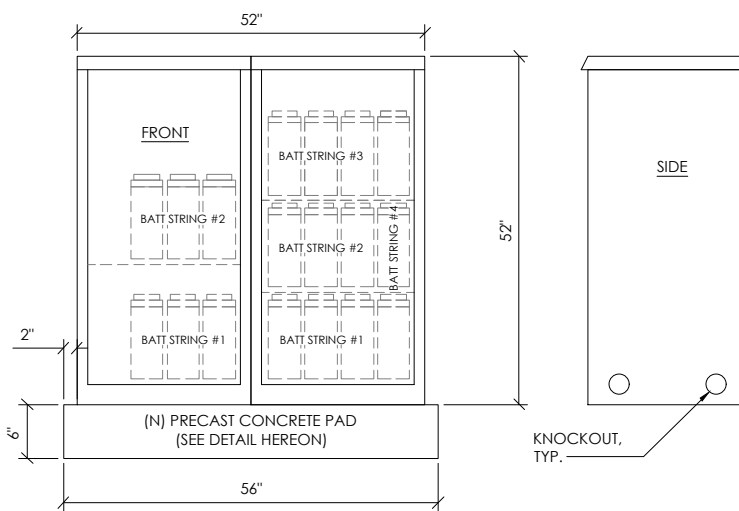


EQUIPMENT SPECIFICATIONS (1 UNIT)	
MFG:	ALPHA
MODEL:	210 FTX
HEIGHT:	13.02 IN
WIDTH:	4.91 IN
LENGTH:	22.01 IN
WEIGHT:	145 LBS

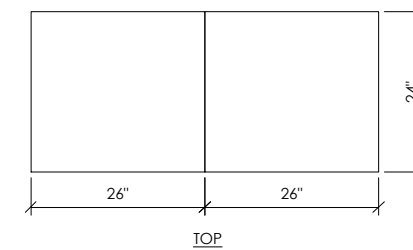
**BATTERY INFORMATION (VRLA TYPE BATTERIES)**

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	18	12	210	2.52	45.36			2.1	37.8
TOTAL		18				45.36	70	CFC 2019 SECTION 1206 DOES NOT APPLY		37.8

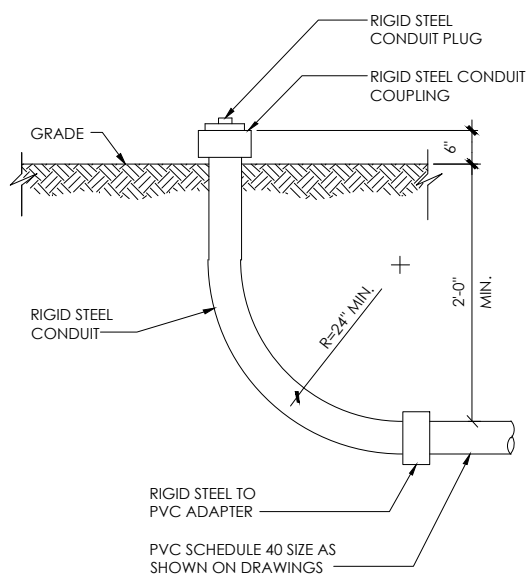
7 BATTERY SPECIFICATIONS  
N.T.S.



CABINET SPECIFICATIONS	
MANUFACTURER:	ALPHA
MODEL:	PN-4
HEIGHT:	52"
WIDTH:	26"
DEPTH:	24"
WEIGHT (EMPTY):	360 LBS.
WEIGHT (W/ BATTERIES):	2,970 LBS.
MATERIAL:	ALUMINUM
BATTERY CONFIGURATION: CABINET #1: (4) BATTERY STRINGS CABINET #2: (2) BATTERY STRINGS	



1 DUAL EQUIPMENT CABINET DETAIL  
N.T.S.

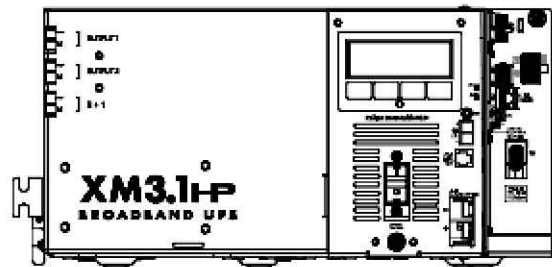


8 STUB-UP DETAIL  
N.T.S.

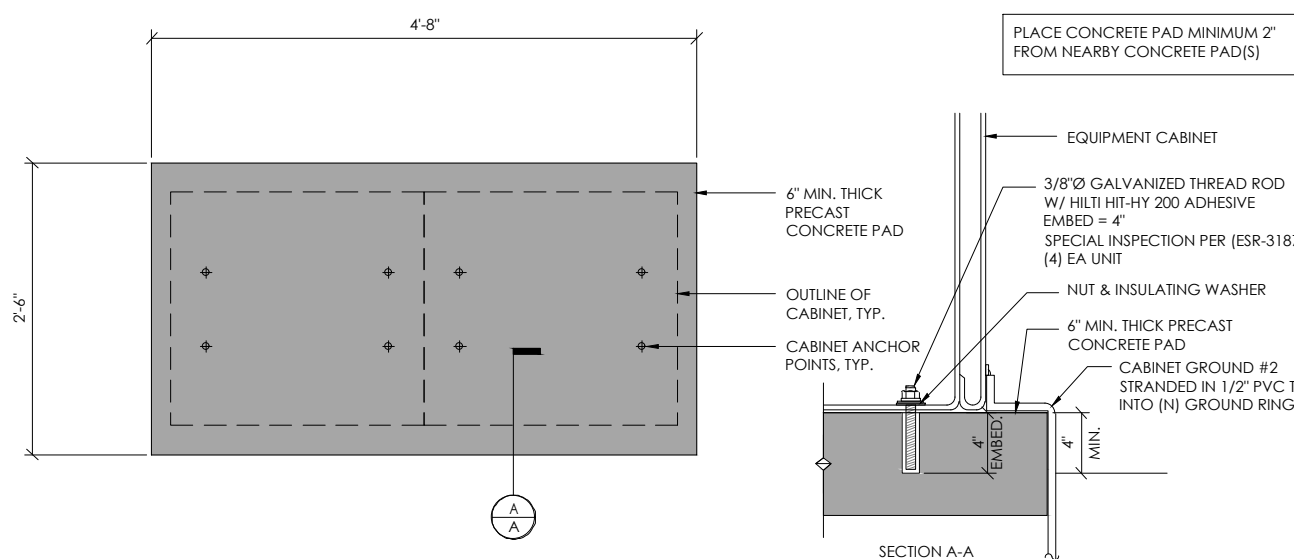
NOTE:  
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

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

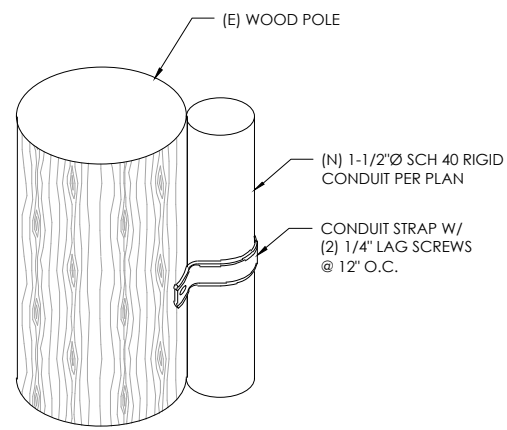


5 POWER SUPPLY DETAIL  
N.T.S.



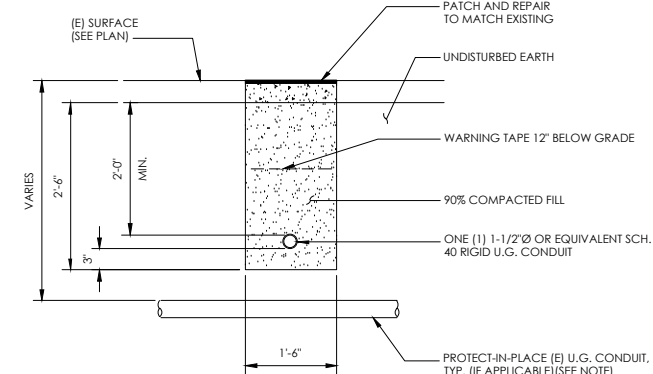
2 CONCRETE PAD & ANCHORAGE DETAIL  
N.T.S.

NOTE:  
1. CONTRACTOR TO VERIFY RISER MOUNTING REQUIREMENTS W/ POLE OWNER AND/OR POWER COMPANY



9 CONDUIT RISER ATTACHMENT DETAIL  
N.T.S.

NOTE:  
1. 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.

LIGHTNING PROTECTION (OPTIONAL)

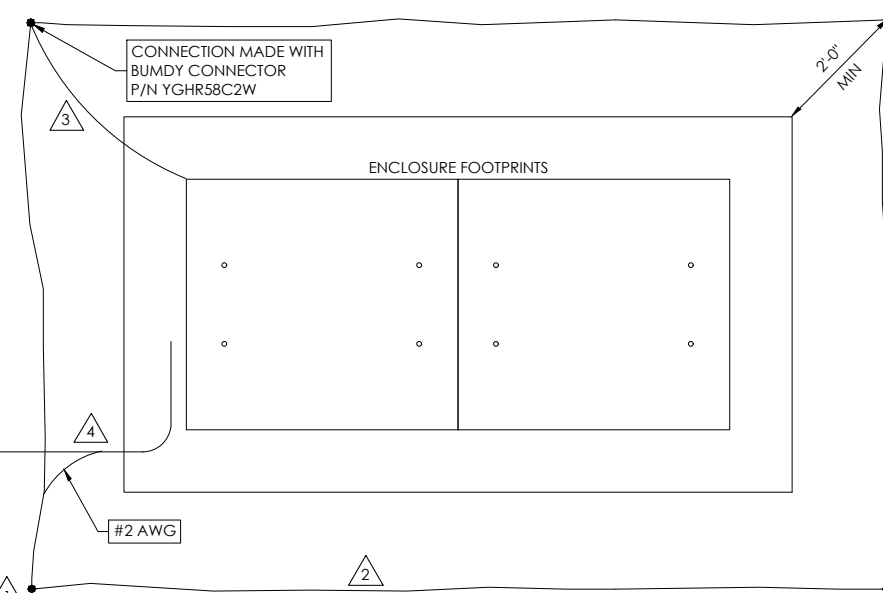
- 1/2"x8" COPPER GROUND ROD, FOUR PLACES, DRIVEN ABOUT 2 FEET (TYP.) FROM THE CORNERS OF THE PAD.
- #2 BARE COPPER WIRE LOOP TERMINATED TO EACH GROUND ROD AND BURIED BELOW GRADE 18 INCHES. CORROSION-PROOF CONNECTIONS (25+ YEAR LIFE-SPAN) AND HARDWARE SUITABLE FOR DIRECT BURIAL MUST BE USED.
- #2 BARE 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.



3011 COMCAST PLACE  
LIVERMORE, CA 94551



3767 ALPHA WAY  
BELLINGHAM, WA 98226

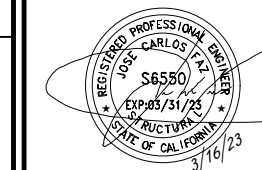


23 MAUCHLY, STE 110  
IRVINE, CA 92618  
J5 PROGRAM ID: ALP-CA-CPUC  
J5 PROJECT ID: P-062161

**ISSUE STATUS**

REV	DATE	DESCRIPTION	BY
A	09/18/21	90% CD	NA
B	09/22/21	90% CD	TT
0	01/07/22	100% CD	BN
1	05/04/22	PCC # 1	IK
2	03/16/23	PCC # 2	MZ

SEAL



SITE INFORMATION

SITE ADDRESS:  
445 CASCADE DR,  
FAIRFAX, CA 94930

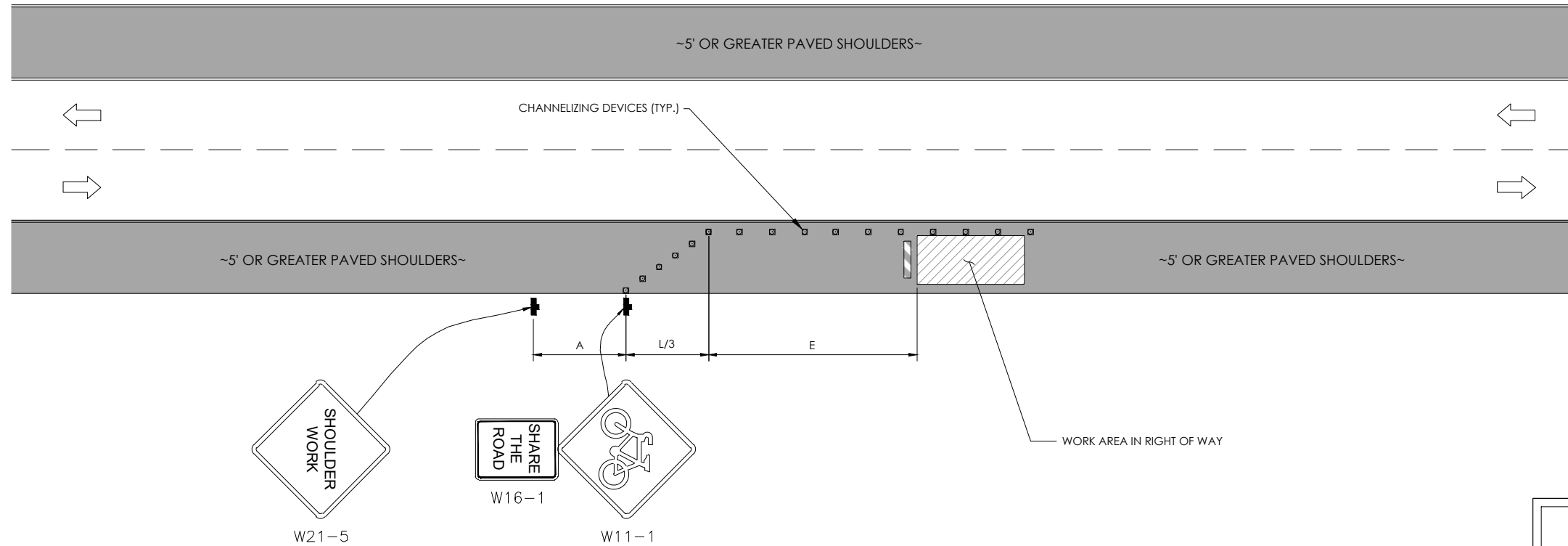
SHEET TITLE:  
**DETAILS**

**D1**

# TRAFFIC CONTROL FOR WORK ON SHOULDERS - RESIDENTIAL AREA

## WORK AREA TRAFFIC CONTROL HANDBOOK 2019 14TH EDITION

PER STANDARDS AND GUIDANCE OF CA-MUTCD

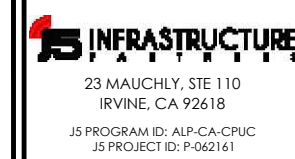


**GENERAL NOTES:**

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA 2010 STANDARD PLAN A20A.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE..
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE THE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC., FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
15. DIMENSIONS BASED ON GIS MAPPING DATA AND/OR RECORD DRAWINGS AND NOT A SURVEY.
16. TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
17. ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.

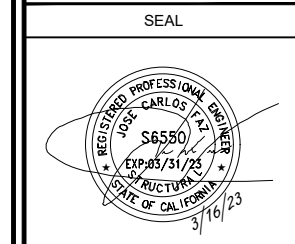
SPEED MPH (2)	DIMENSION A/B/C ADVANCE WARNING SIGN SPACING (5)	DIMENSION L MERGIN TAPER LENGTH	DIMENSION L/2 SHIFTING TAPER LENGTH	DIMENSION L/3 MINIMUM SHOULDER TAPER	DIMENSION "E" BUFFER SPACE (4 A) AND FLAGGER STATION STOPPING SIGHT DISTANCE (4 B)			MAXIMUM CHANNELIZER TAPER SPACING (3)	MAXIMUM CHANNELIZER TANGENT SPACING (3)	MAXIMUM CHANNELIZER CONFLICT SPACING (5)
					(0%)	(3%)	(6%)			
25	100	125	65	4.5	(15.5)	(16.0)	(13.5)	25	50	12
30	2.50	180	90	6.0	(20.0)	(20.5)	(21.5)	30	60	15
35	2.50	245	125	8.5	(25.0)	(26.0)	(27.5)	35	70	17
40	2.50	320	160	11.0	(30.5)	(31.5)	(33.5)	40	80	20
45	3.50	540	270	18.0	(36.0)	(38.0)	(40.0)	45	90	22
50	3.50	600	300	20.0	(42.5)	(45.0)	(47.5)	50	100	25
55	5.00	660	330	22.0	(49.5)	(52.0)	(55.5)	50	100	25
60	5.00	720	360	24.0	(57.0)	(60.0)	(64.0)	50	100	25
65	5.00	780	390	26.0	(64.5)	(68.5)	(73.0)	50	100	25

1. WORK ON FREEWAYS AND EXPRESSWAYS SHALL MEET THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATION REQUIREMENTS
2. POSTED SPEED OR OBSERVED OPERATION SPEED (WHICHEVER IS GREATER)
3. CHANNELIZER SPACING SHALL BE REDUCED BY HALF AT AREAS WHERE WORK IS TAKING PLACE ON CURVES OR AREAS OF HEAD-ON CONFLICT
- 4 A. BUFFER SPACE MAY BE INSERTED IN LOW SPEED URBAN AREAS AND SHOULD BE INSERTED IN HIGH SPEED URBAN AND RURAL AREAS
- 4 B. THE STOPPING SIGHT DISTANCE SHOULD ENABLE ROAD USERS TO SEE THE PRIMARY FLAGGER STATION AND SAFELY STOP
5. SIGN SPACING IN RURAL AREAS SHOULD BE 500 FT
6. \*\* TABLE 6F 10.1 (CA)



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**TC1**