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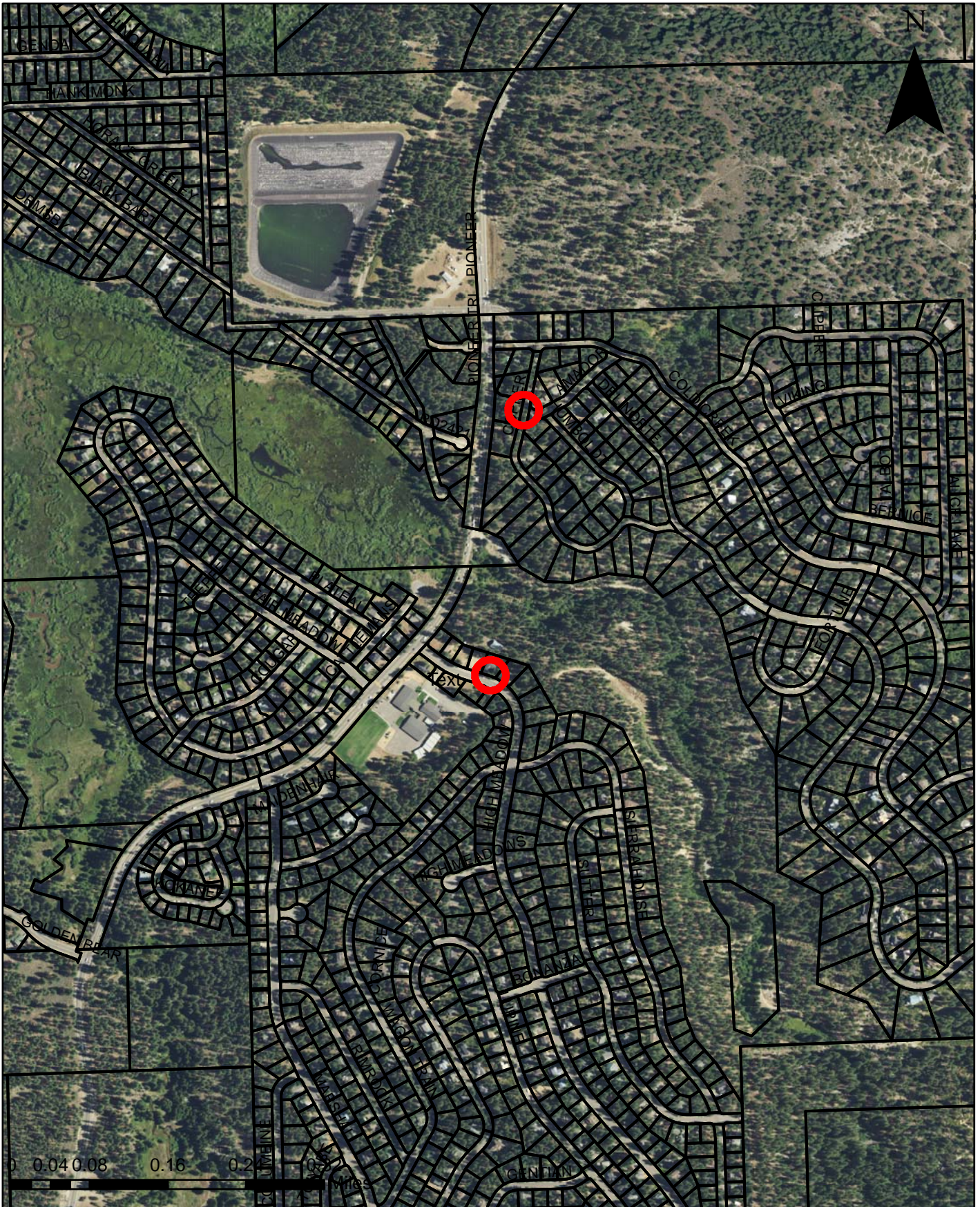


Exhibit A-Location Map

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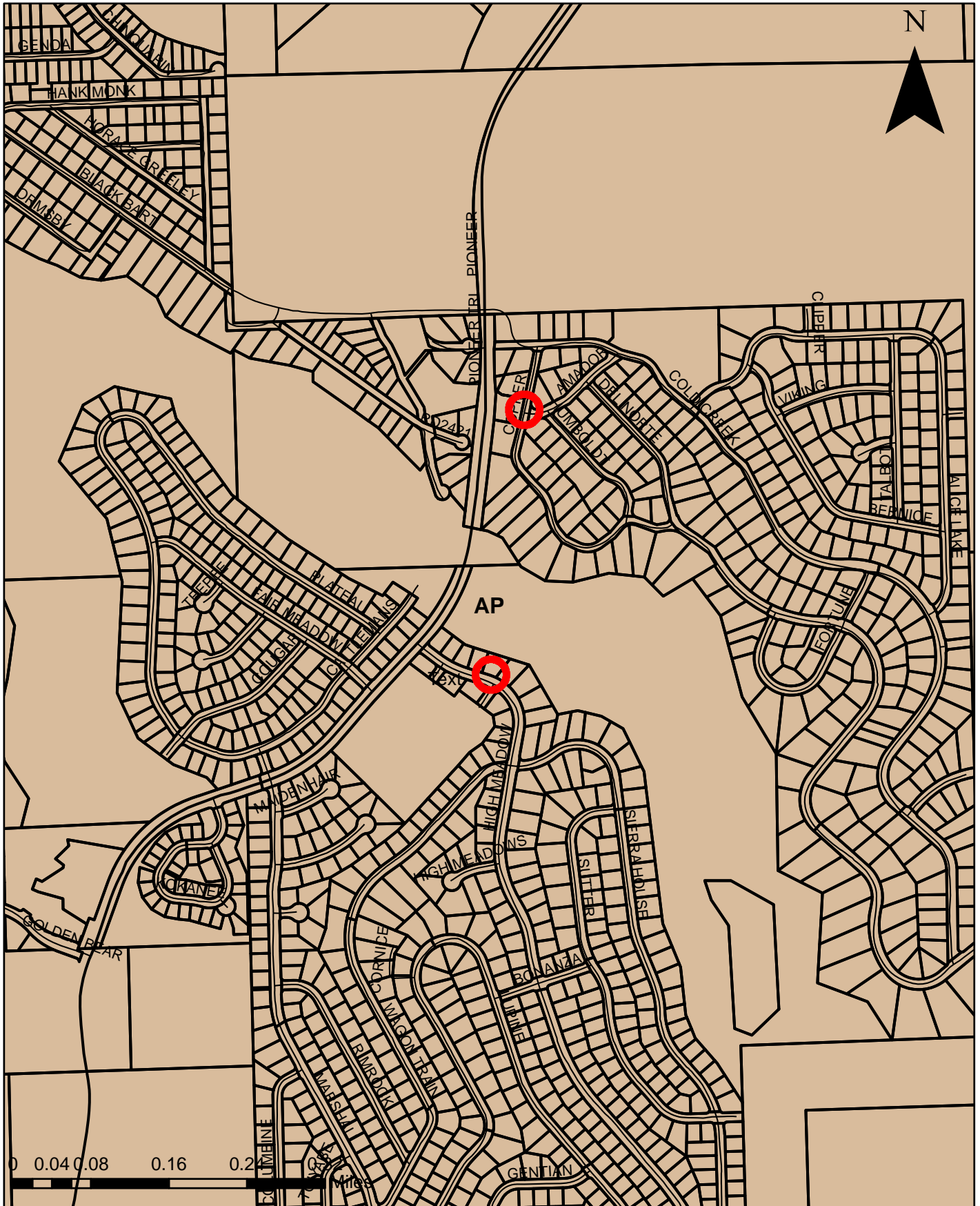


Exhibit B-Surrounding Land Use

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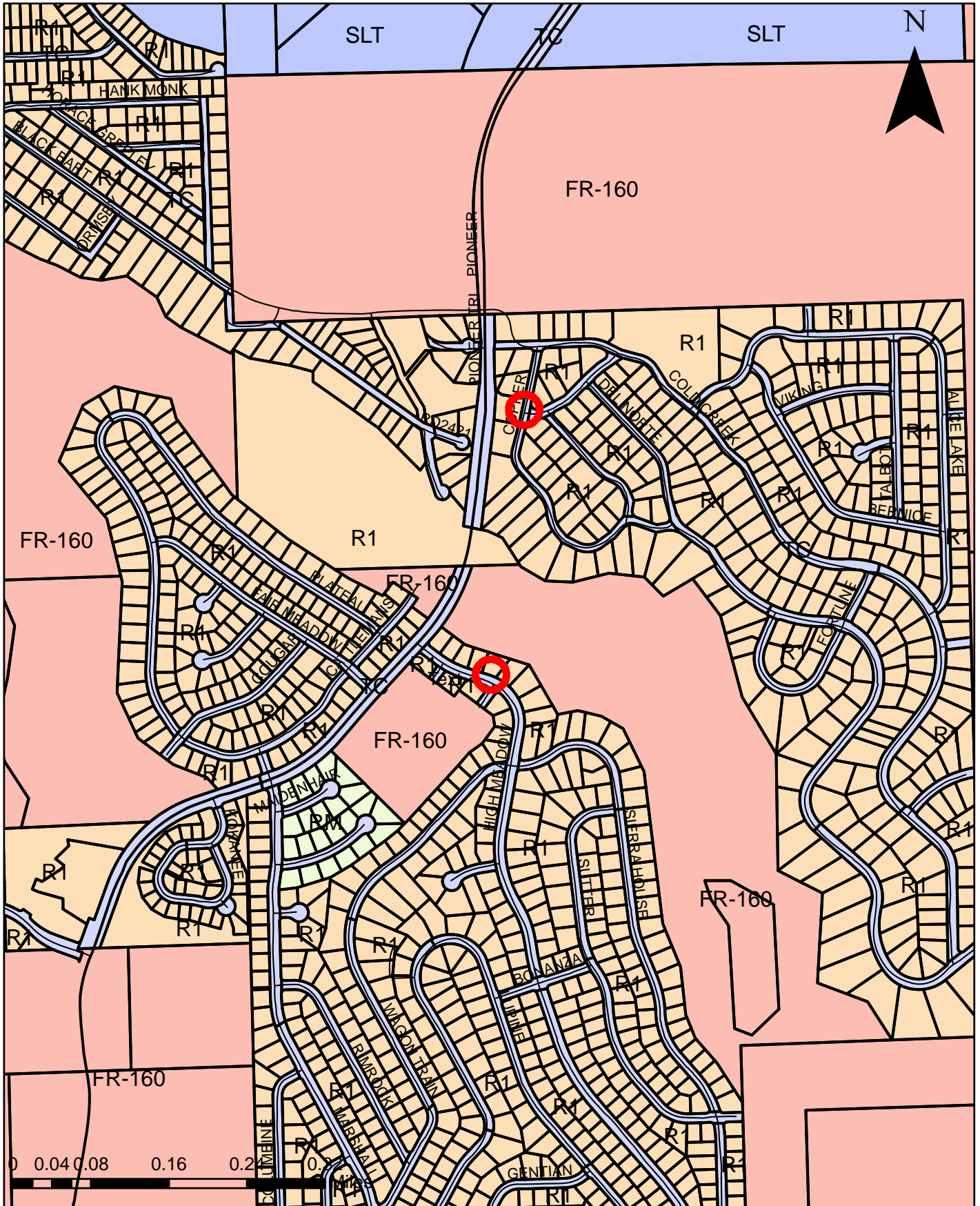


Exhibit C-Surrounding Zoning

Geil Engineering
Engineering * Surveying * Planning
1226 High Street
Auburn, California 95603-5015
Phone: (530) 885-0426 * Fax: (530) 823-1309

Verizon Wireless

Project Name: SC South Lake Tahoe 075

Project Site Location: PROW High Meadow Trail
South Lake Tahoe, CA
El Dorado County

Date of Observation: 02-22-18

Equipment/Procedure Used to Obtain Coordinates: Trimble GeoXT post processed with
Pathfinder Office software.


Type of Antenna Mount: Existing Utility Pole

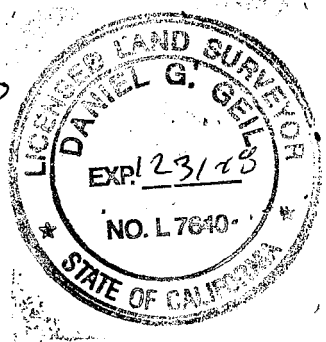
Coordinates:

Latitude: N 38°54'26.09" (NAD83) N 38°54'26.42" (NAD27)
Longitude: W 119°57'42.32" (NAD83) W 119°57'38.67" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 6332.2' AMSL
Height of Structure: 38.4' AGL

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91:003, and that they are true and accurate to the best of my knowledge and belief.


Daniel G. Geil L.S. 7640



02-26-18



SC SOUTH LAKE TAHOE 075

PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH MEADOW TRAIL
SOUTH LAKE TAHOE, CA 96150

PSL #481972



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client: _____



Project Architect: _____



Site Agent: _____

100% Construction
Drawings

Drawing Phase: _____

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name: _____

Professional Seal: _____

It is a violation of law for any person,
unless they are acting under the direction
of a licensed Professional
Architect/Engineer, to alter this document.

Rev.	Date	Description
01	03/26/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.: _____

Date: 04/03/18 Job No.: _____

Scale: AS SHOWN CAD File: _____

Designed By: JG Checked: RB

TITLE SHEET

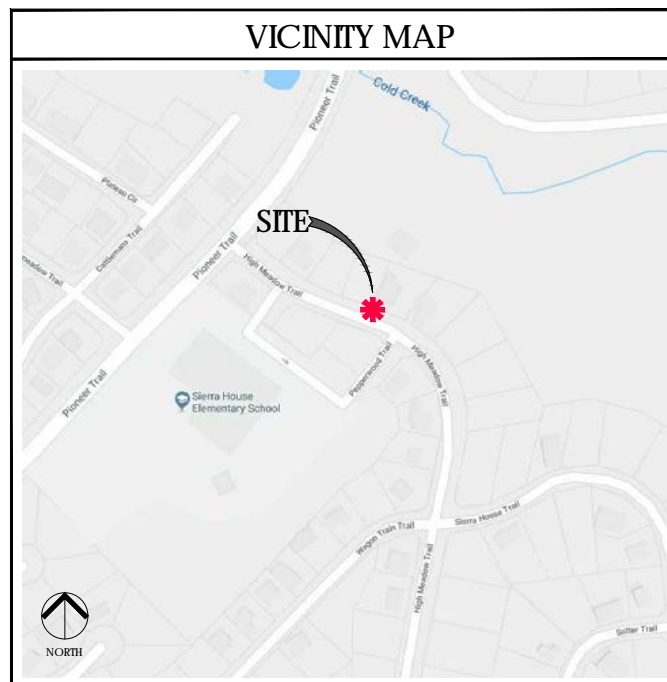
Sheet Title: _____

T.1

Sheet No.: _____

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SITE INFORMATION	
PSL #:	481972
OWNER:	LIBERTY UTILITIES 701 NATIONAL AVE TAHOE VISTA, CA 96148 ERIC TROSKA T 775-870-2469 M 775-870-2469
APPLICANT:	VERIZON WIRELESS 2785 MITCHELL DRIVE, SUITE 9 WALNUT CREEK, CA 94598
AGENT:	EPIC WIRELESS 222 W. LOCKEFORD STREET SUITE 9 LODI, CA 95240 TEL: (916) 781-5921
APN ADJACENCY:	025-721-061
SITE ADDRESS:	PROW HIGH MEADOW TRAIL (NEAR) 1751-1755 HIGH MEADOW TRAIL SOUTH LAKE TAHOE, CA 96150
COUNTY:	EL DORADO
ZONING:	PUBLIC ROW
ZONING JURISDICTION:	EL DORADO COUNTY
LAT:	38° 54' 26.09"
LONG:	119° 57' 42.32"
ELEVATION	+6332.2' AMSL

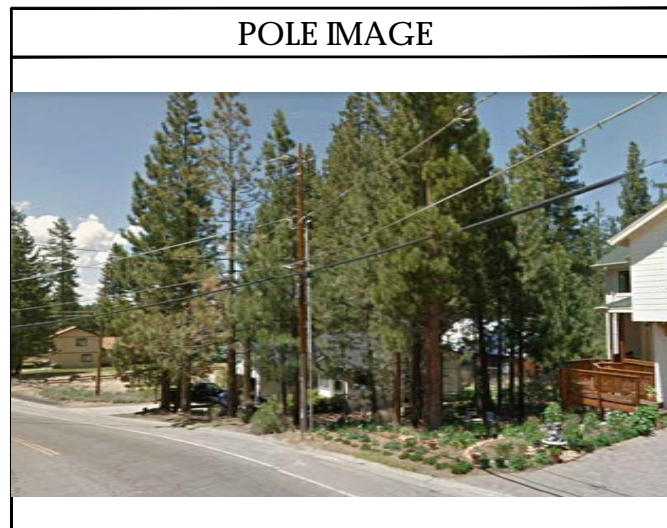


PROJECT TEAM	
AGENT	
Epic Wireless Group, Inc. 222 W. Lockeford Street Suite 9 Lodi, CA 95240 Tel: (916) 781-5921	
cell: 916.216.7931 email: rob.hernandez@epicwireless.net	
CONSTRUCTION MANAGER: ROB HERNANDEZ	
cell: 916.216.7931 email: rob.hernandez@epicwireless.net	
LEASING & ZONING MGR: MARK LOBAUGH	
cell: 916.203.4067 email: mark.lobaugh@epicwireless.net	
ARCHITECT/ENGINEER	
Meridian Management LLC 785 Oak Grove Road E2 Suite 251 Concord, CA 94518 www.meridian.management	
PROJECT MANAGER: RODNEY BARNES	
cell: 707.592.5924 email: rodney@meridian.management	
CLIENT	
Verizon Wireless 2785 Mitchell Drive Suite 9 Walnut Creek, CA 94598	

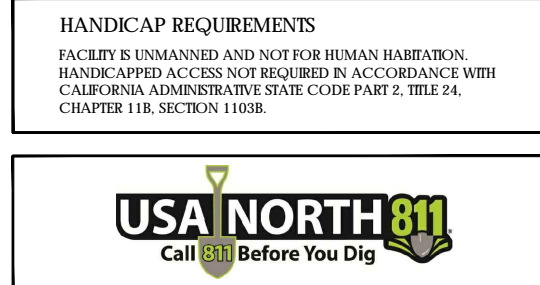
PROJECT DESCRIPTION	
THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE VERIZON WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING WOOD POLE IN THE PUBLIC RIGHT-OF-WAY.	
SCOPE OF WORK	
<ol style="list-style-type: none"> INSTALL NEW TELECOMMUNICATIONS EQUIPMENT BOXES ON AN EXISTING 38.4' HT. WOOD POLE. ALL POLE-MOUNTED EQUIPMENT TO BE INSTALLED ON A GO95 COMPLIANT STANDOFF BRACKET. EQUIPMENT CONSISTS OF (1) CANTENNA ON 7' WOOD POLETOP EXTENSION, (1) RRU4449, (1) RRU8843, (2) DIPLEXERS, (2) DISCONNECT SWITCHES, (1) RRU SHROUD, (2) STL BOLLARDS, (1) GROUND-MOUNTED SMALL CELL CABINET, AND A POWER METER ON SIDE OF SMALL CELL CABINET. OVERHEAD POWER FROM TRANSFORMER. INSTALL POLE STEPS AS REQUIRED ALL POLE-MOUNTED EQUIPMENT INCLUDING CONDUIT RISERS TO BE INSTALLED MIN. 5" FROM POLE ON STANDOFF BRACKETS ALL EQUIPMENT TO BE PAINTED VALSPAR 'DEEP EARTH' COLOR. 	

DRAWING INDEX	
SHEET NO:	SHEET TITLE
T.1	TITLE SHEET
C.1	SITE SURVEY
A.1	OVERALL SITE PLAN
A.2	POLE PLAN ENLARGEMENTS
A.3	ELEVATIONS
A.4	ELEVATIONS
A.5	EQUIPMENT DETAILS
A.6	EQUIPMENT DETAILS
A.7	EQUIPMENT DETAILS, PLUMBING DIAGRAM
A.8	EQUIPMENT DETAILS
E.1	SINGLE LINE DIAGRAM, BUSS DIAGRAM, PANEL SCHEDULE
E.2	POLE GROUNDING, ELECTRICAL DETAILS
TC.1	VEHICLE TRAFFIC CONTROL PLAN

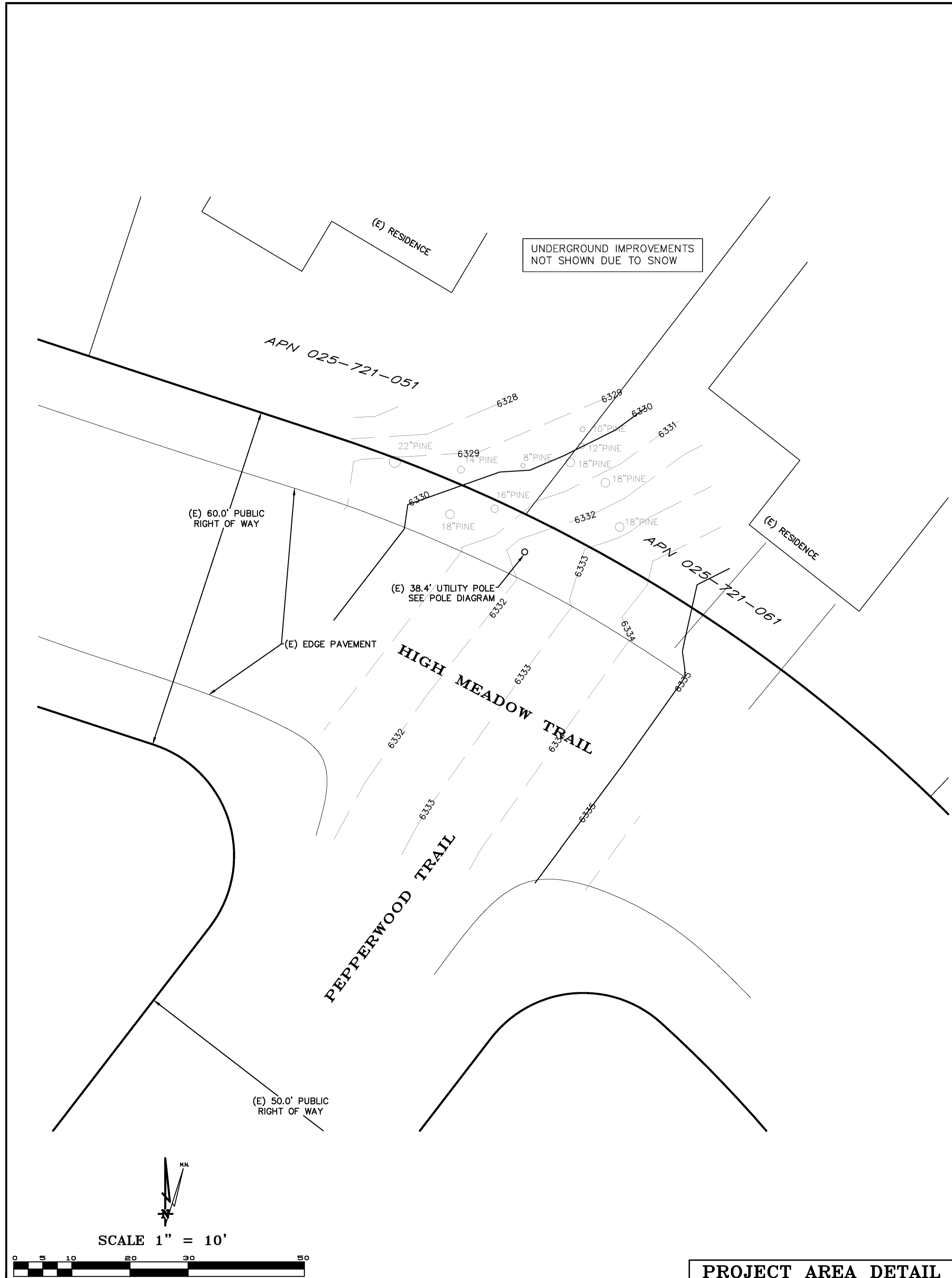
CODE COMPLIANCE	
CONSTRUCTION WORKS AND MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:	
<ul style="list-style-type: none"> CALIFORNIA CODE OF REGULATIONS 2016 CALIFORNIA BUILDING CODE 2016 CALIFORNIA MECHANICAL CODE 2016 CALIFORNIA PLUMBING CODE 2016 CALIFORNIA ELECTRIC CODE 2016 GREEN CODE 2016 EDITION OF TITLE 24 ENERGY STANDARDS ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE CITY / COUNTY ORDINANCES 2016 CALIFORNIA FIRE CODES WITH ALL LOCAL AMENDMENTS GO 95 REGULATIONS 	



HANDICAP REQUIREMENTS	
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 1103B.	

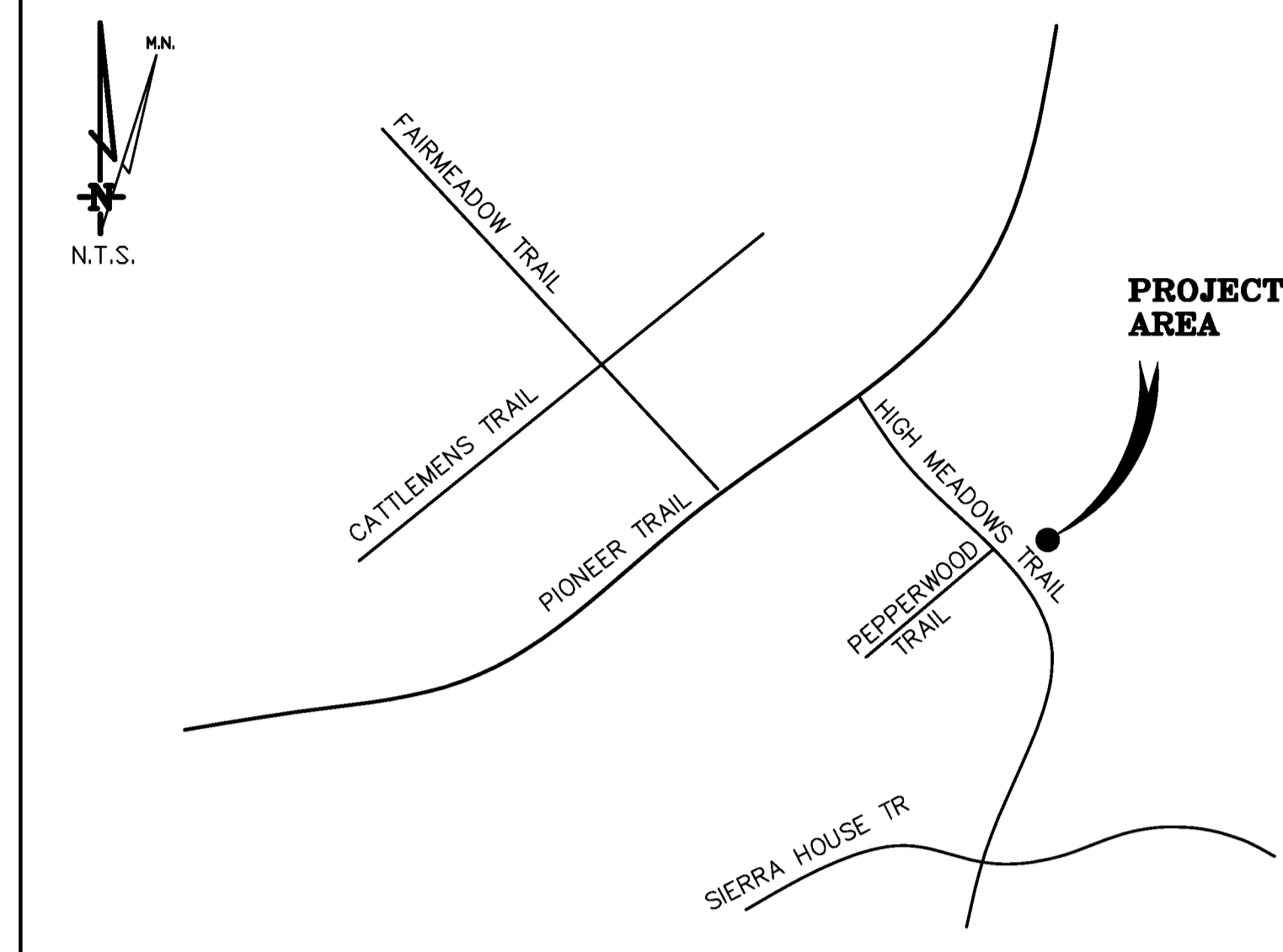


ADMINISTRATIVE REQUIREMENTS	
CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE	



LEGEND

---	PARCEL BOUNDARY
- - - -	NEIGHBORING PARCEL BOUNDARY
---	LEASE AREA BOUNDARY
---	UTILITIES
- - - -	(E) EASEMENTS
- - - -	(P) EASEMENTS
---	FENCE LINE
○ JP	JOINT UTILITY POLE
○ TP	TELEPHONE POLE
○ EP	ELECTRICAL POLE
○ 6" OAK	TREE WITH DIAMETER BREAST HEIGHT (DBH)
○ W	WATER VALVE
□ W	WATER BOX
○ SSMH	SANITARY SEWER MANHOLE
○ SDMH	STORM DRAIN MANHOLE
○ DI	DROP INLET

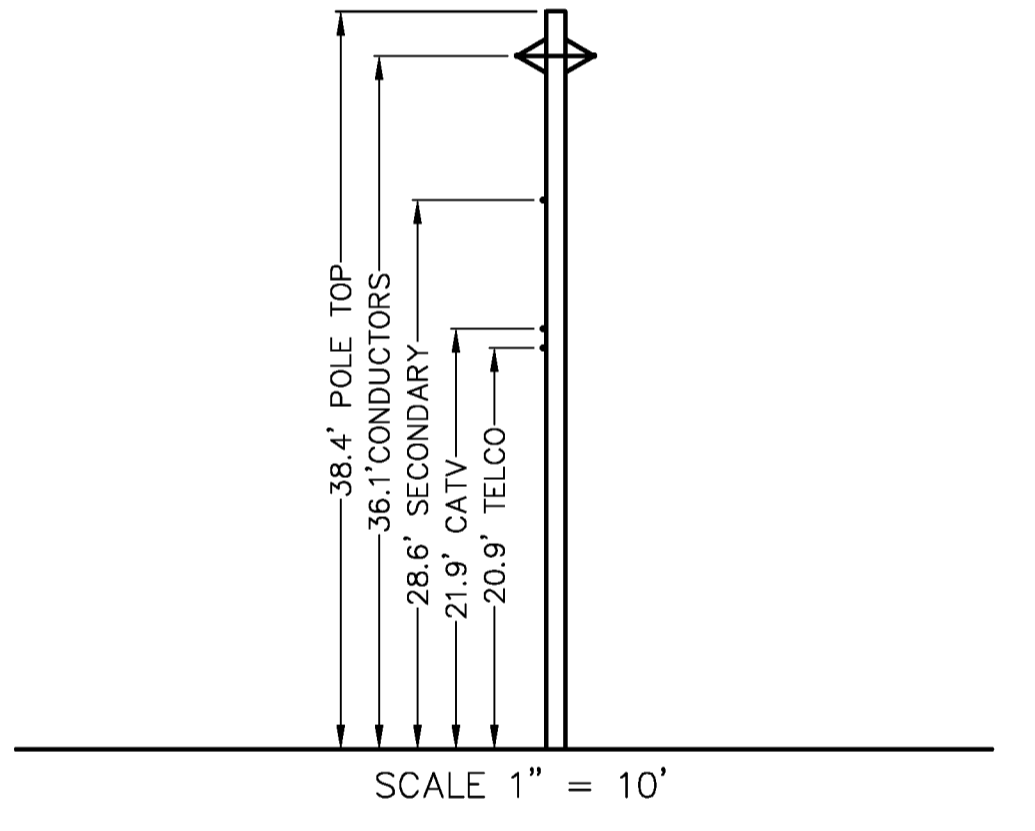


SOUTH LAKE TAHOE, CA

VICINITY MAP

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.



DATE OF SURVEY: 02-22-18

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, RCE 14803 LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 4.16' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: N.A.

ASSESSOR'S PARCEL NUMBER: PUBLIC RIGHT OF WAY HIGH MEADOW TRAIL

LANDLORD(S): LIBERTY UTILITIES
701 NATIONAL AVENUE
TAHOE VISTA, CA 96148

Project Name: SC South Lake Tahoe 075

Project Site Location: PROW High Meadow Trail
South Lake Tahoe, CA
El Dorado County

Date of Observation: 02-22-18

Equipment/Procedure Used to Obtain Coordinates: Trimble GeoXT
post processed with Pathfinder Office software.

Type of Antenna Mount: Existing Utility Pole

Coordinates:

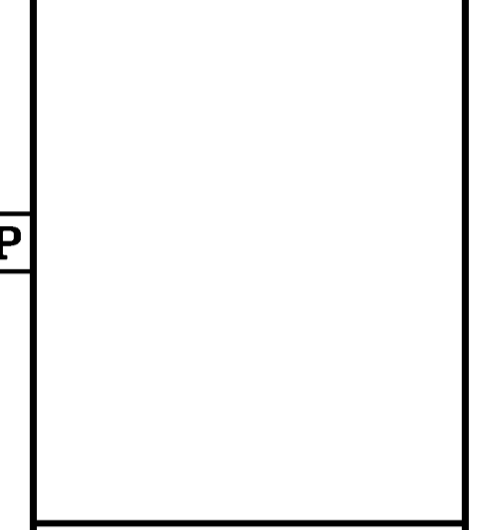
Latitude: N 38°54'26.09" (NAD83) N 38°54'26.42" (NAD27)
Longitude: W 119°57'42.32" (NAD83) W 119°57'38.67" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 6332.2' AMSL
Height of Structure: 38.4' AGL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor

GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1526 HIGH STREET
AUBURN, CALIFORNIA 95605
Phone: (530) 885-1005
Fax: (530) 885-1006

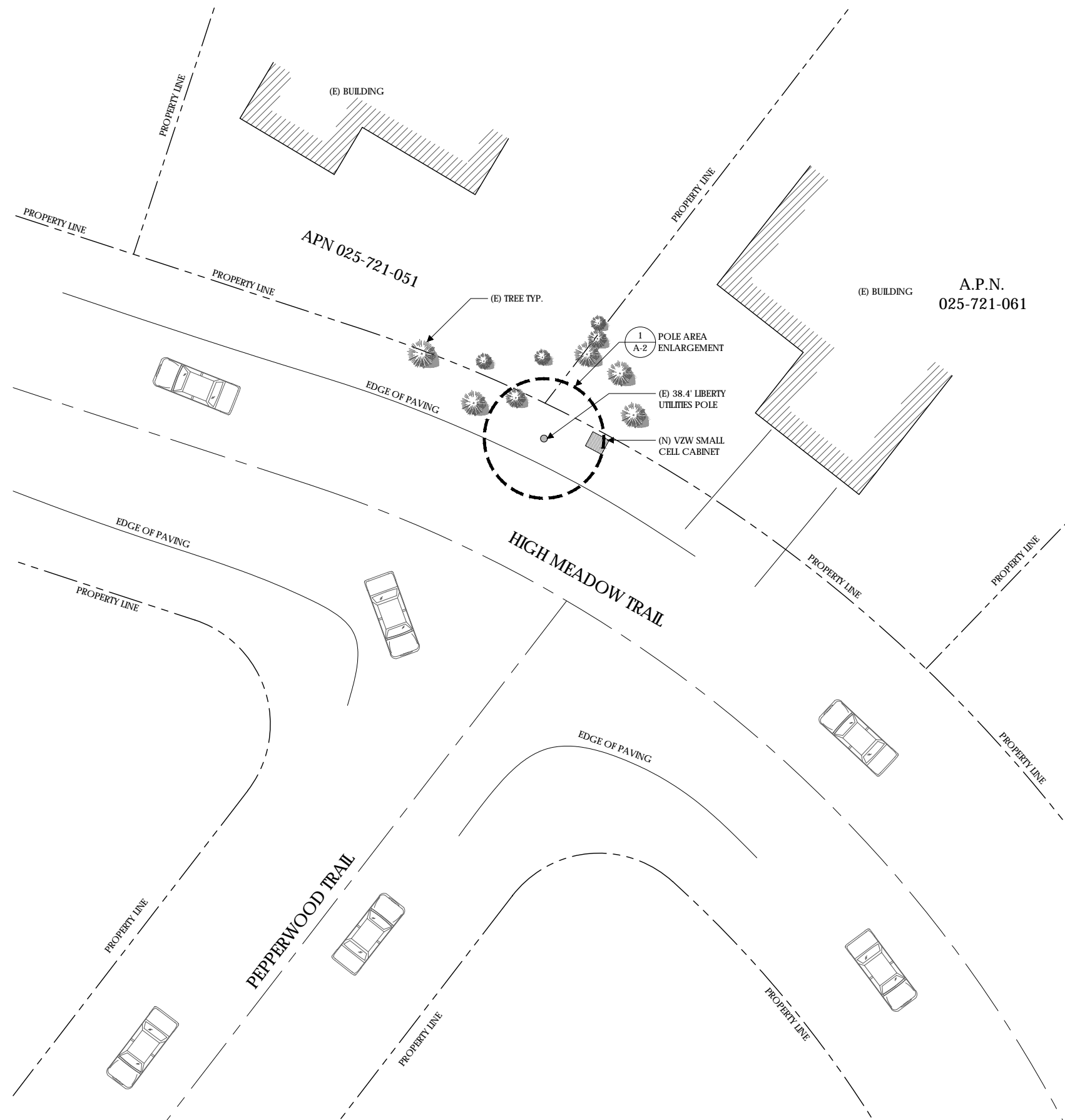


SC South Lake Tahoe
075
PROW High Meadow Trail
South Lake Tahoe, CA
PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS	DATE	BY	DESCRIPTION
02-25-18		DG	Preliminary Drawing
04-02-18		DG	corr. Landlord
04-03-18		DG	corr. 1A

REVISIONS	DATE	BY	DESCRIPTION

PROJECT AREA DETAIL



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridian.management

Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
Lodi, CA 95240

Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 075

PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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of a licensed Professional
Architect/Engineer, to alter this document.

Rev.	Date	Description
01	03/26/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

OVERALL SITE
PLAN

Sheet Title:

A.1

Sheet No.:

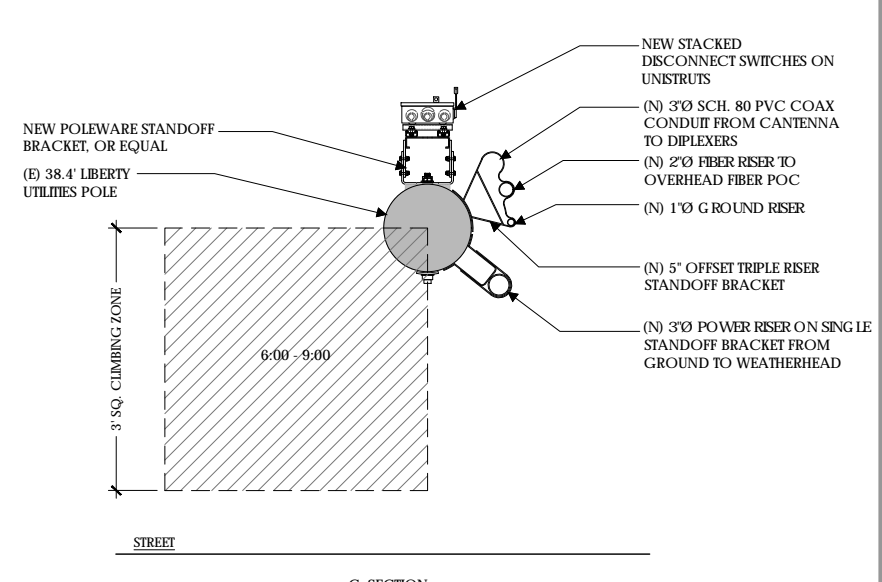
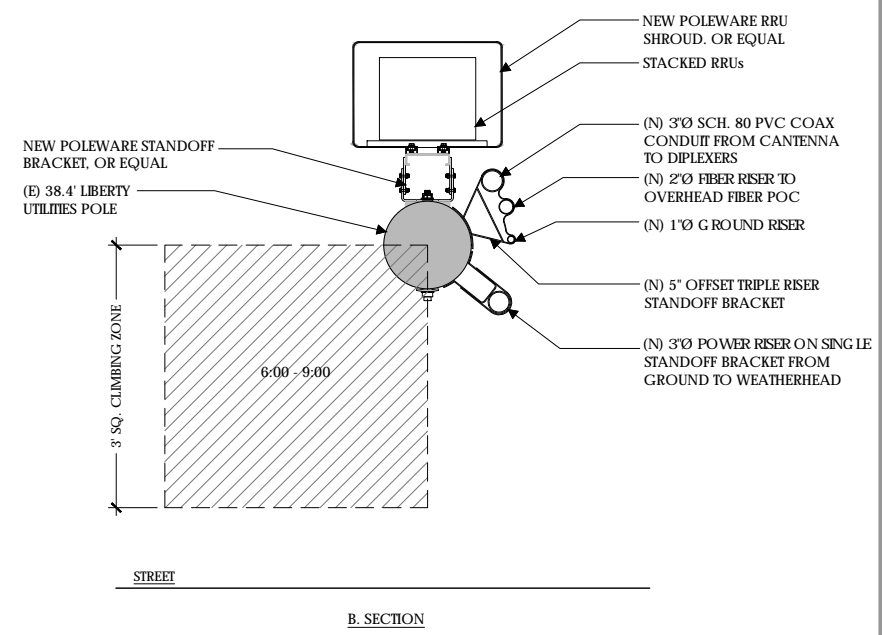
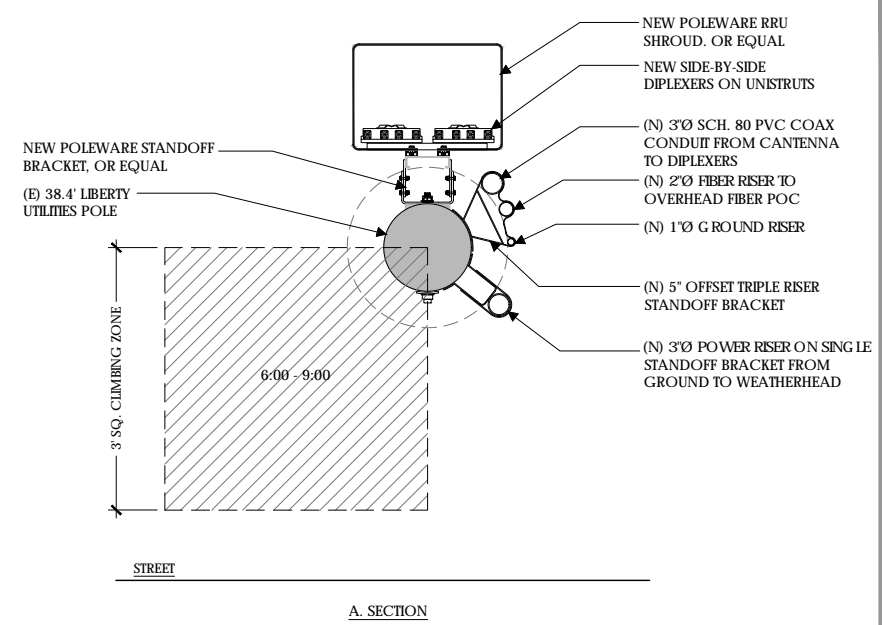
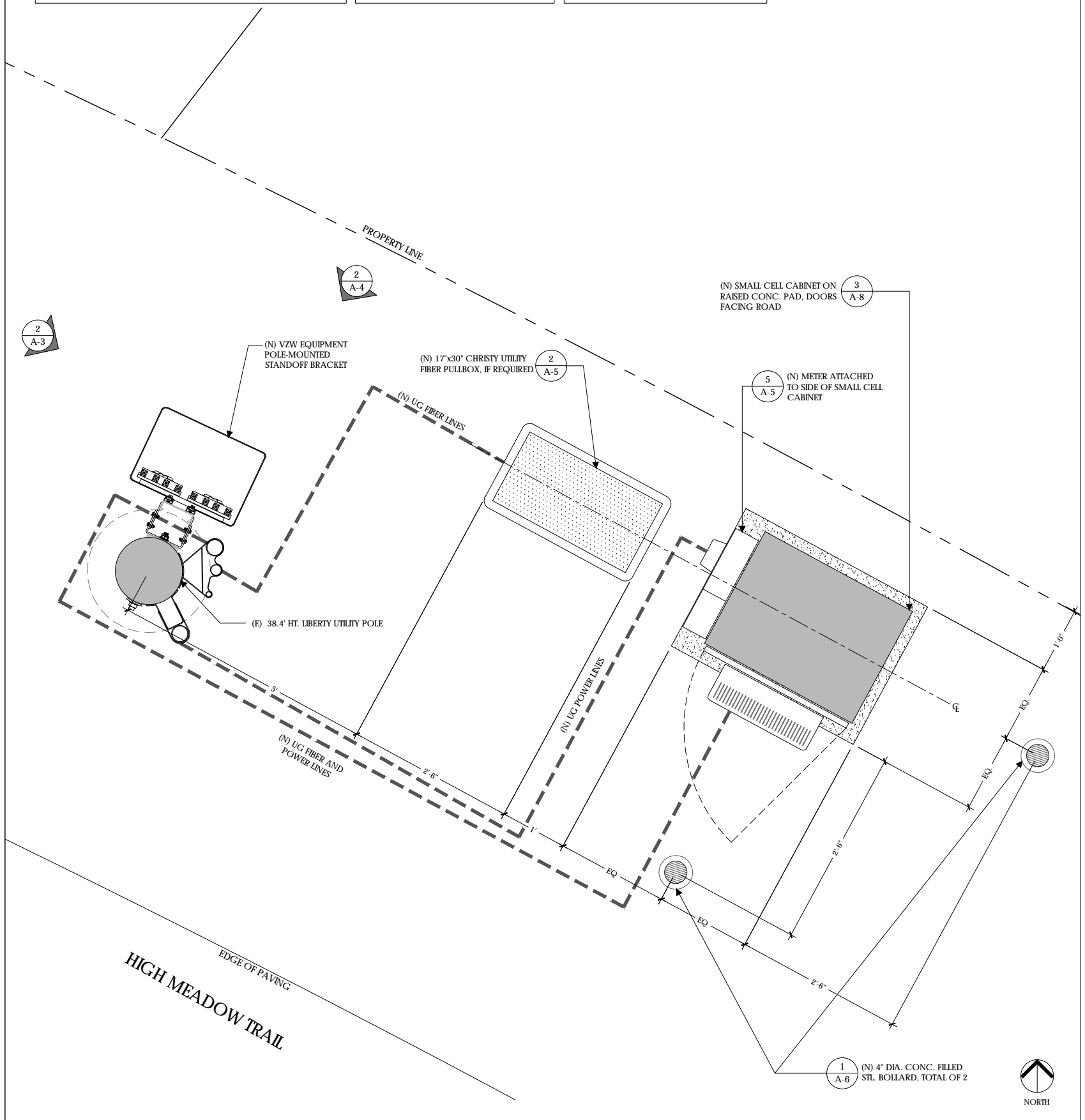
© Meridian Management LLC, 2018



(N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 12:00 ORIENTATION RELATIVE TO THE STREET. CLIMBING SPACE IS BETWEEN 6:00 AND 9:00. POLE STEPS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE. SEE CONDUIT RISER DETAIL FOR LAYOUT OF RISERS

EQUIPMENT SYSTEM:
ALL NEW COMPONENTS NOT SHOP PAINTED SHOULD BE FIELD PAINTED VALSPAR 'DEEP EARTH' COLOR

NEW CONDUIT FOR POWER/TELCO:
(1) 3" CONDUIT FOR POWER
(1) 2" CONDUIT FOR FIBER
(1) 3" CONDUIT FOR COAX
(1) 1" CONDUIT FOR GROUND



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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Rev.	Date	Description
01	03/26/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

PLAN ENLARGEMENT
POLE PLAN
ENLARGEMENTS
Sheet Title:

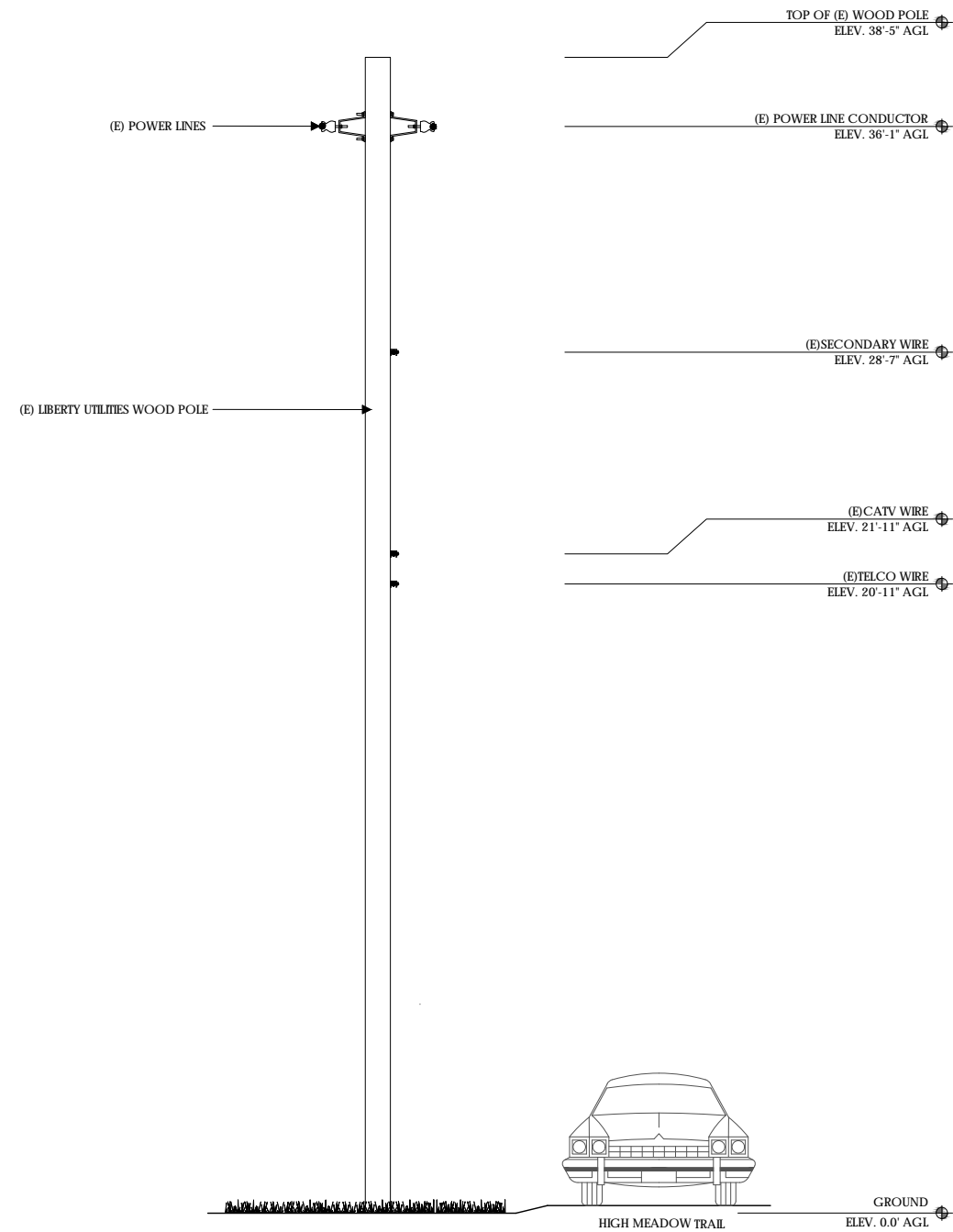
A.2

Sheet No.:

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MAKE READY NOTES

1. ALL LIBERTY SITE SPECIFIC MAKE READY IMPROVEMENTS TO BE COMPLETED PRIOR TO VERIZON INSTALLATION.
2. ALL RISER LOCATIONS SHOWN ON PLANS TO BE VERIFIED BY LIBERTY PRIOR TO INSTALLATION.
3. ANY CONFLICTS WITH PROPER RISER INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF VZW PRIOR TO CONSTRUCTION.



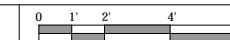
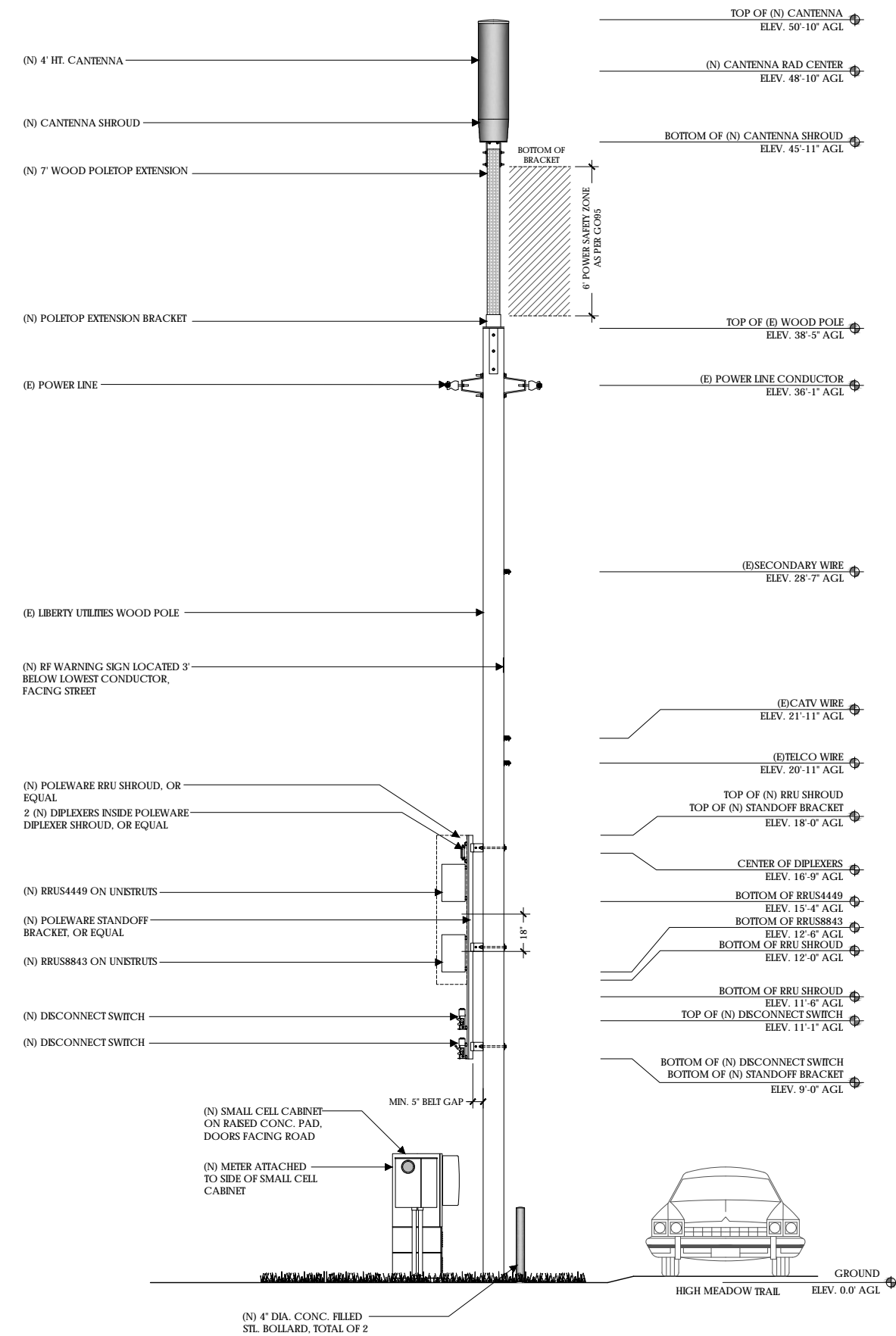
SOUTH ELEVATION - EXISTING



SCALE
3/8" = 1'-0"

1

SOUTH ELEVATION - PROPOSED



SCALE
3/8" = 1'-0"

2



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

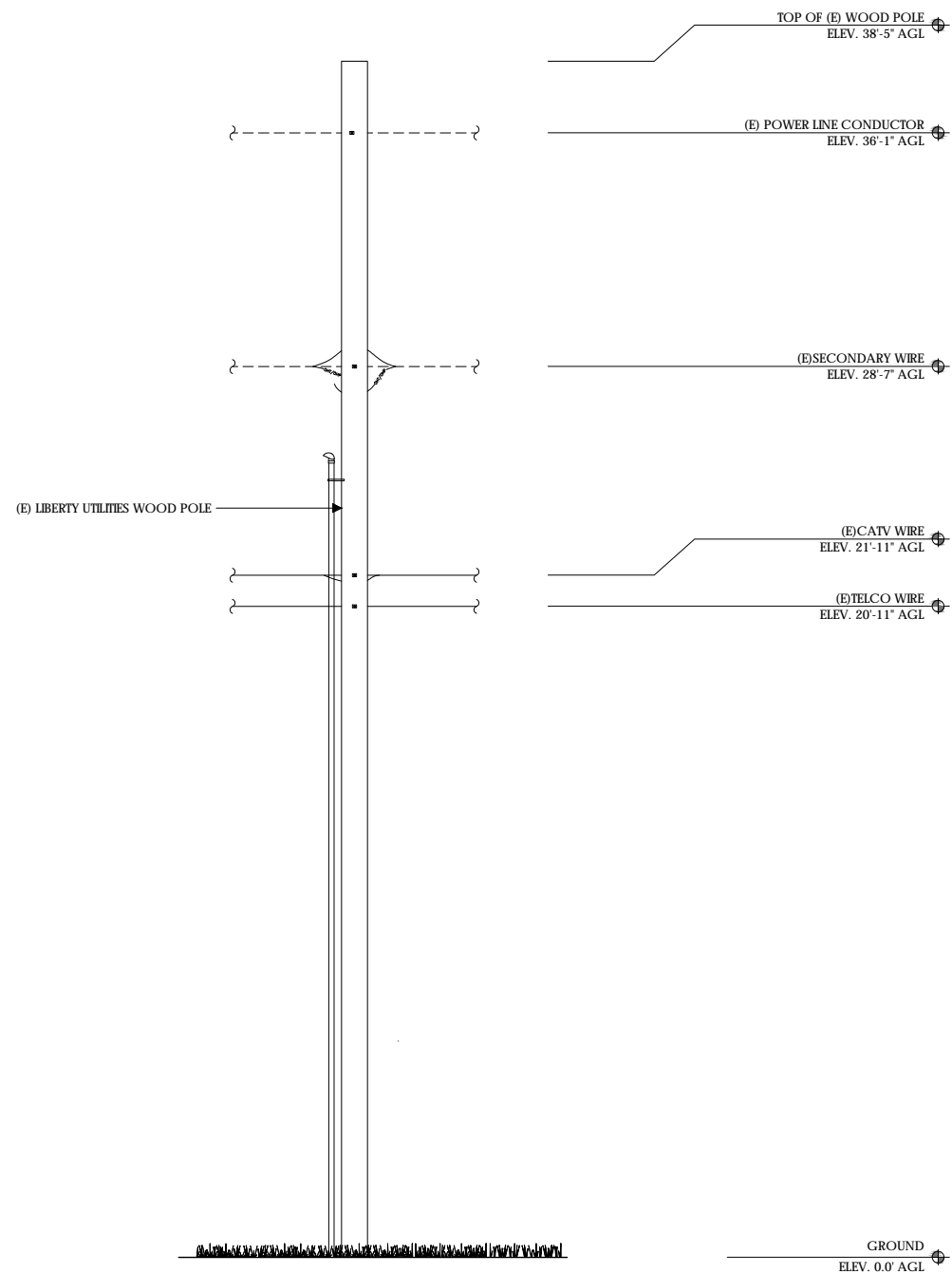
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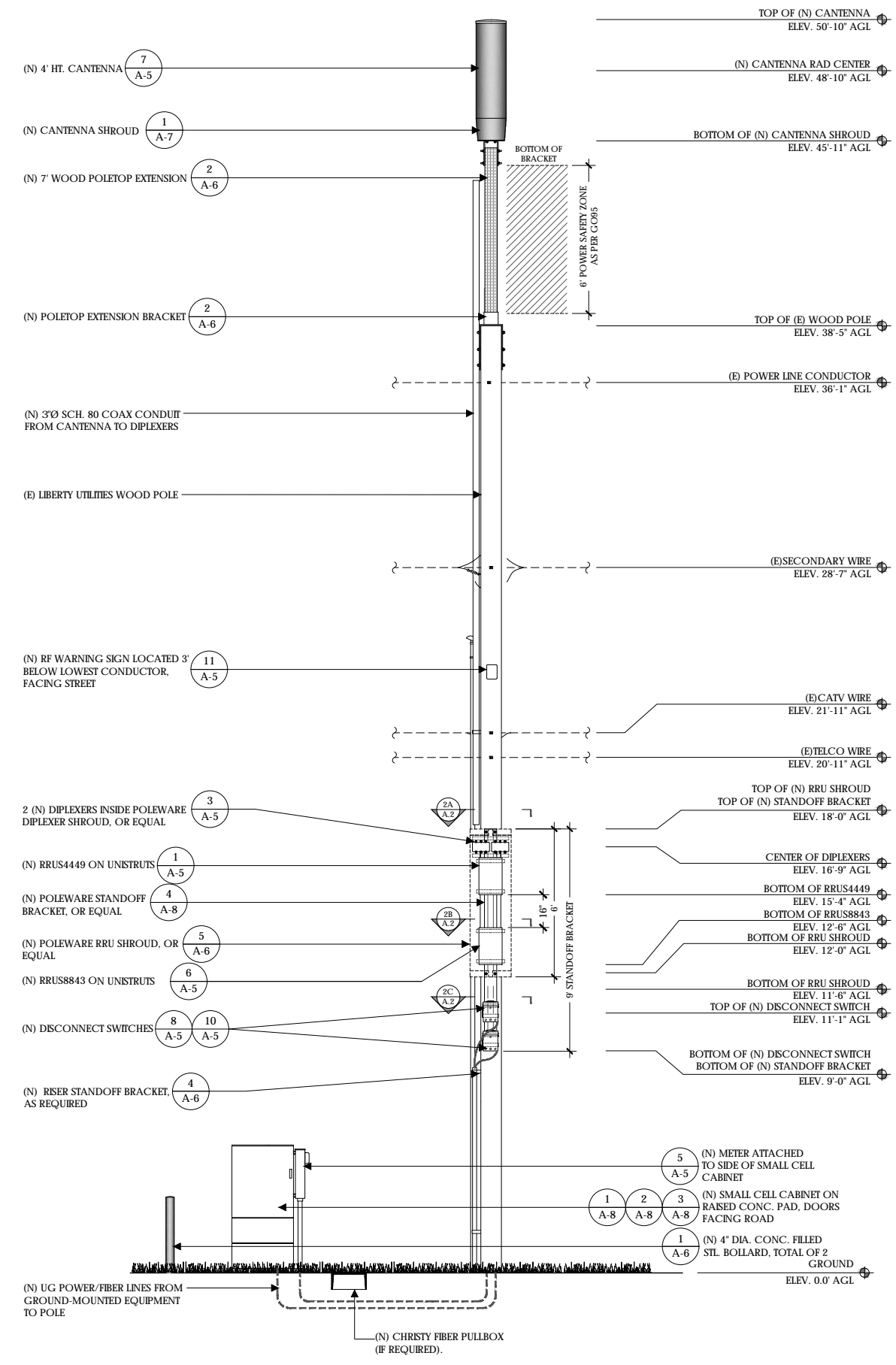
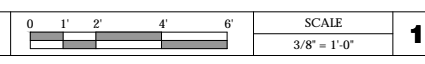
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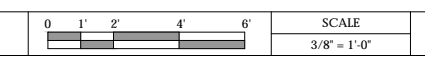
- NOTES:**
- (N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 9:00 QUADRANT.
 - PROVIDE POLE STEPS AS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE.
 - VALSPAR 'DEEP EARTH' COLOR
 - COORDINATE MAKE-READY WORK WITH LIBERTY. WORK PROVIDED BY OTHERS



EAST ELEVATION - EXISTING



EAST ELEVATION - PROPOSED



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 075
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

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Rev.	Date	Description
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Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

Sheet Title:

A.4

Sheet No.:

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UNIT: ERICSSON RRU5449 B5 B13 W/
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

LENGTH: 9.4 INCHES

WEIGHT: 70 LBS (EXCLUDES MOUNTING HARDWARE)



UNIT: ERICSSON RRU8843 W/
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

DEPTH: 11.3 INCHES

WEIGHT: 75 LBS



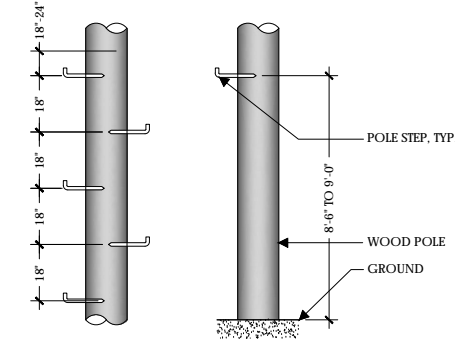
STEP: POLE STEPS ARE USED ON WOOD POLES WHERE FREQUENT ACCESS TO POLE MOUNTED EQUIPMENT IS REQUIRED. FLAT DRIVING SURFACE AND SHARP POINT EASE INSTALLATION. FETER DRIVE THREAD PERMITS REMOVAL WITH A WRENCH. HOT-DIPPED GALVANIZED FOR CORROSION RESISTANCE. NOTCHED MARK ON STEP INDICATES PROPER DRIVING DEPTH.

WEIGHT PER 100: 99 LBS

MANUFACTURER: AERIAL SERVICE COMPANY, INC.
1-800-256-5186
http://www.linemen-tools.com/J1118

MODEL #: J1118

DESCRIPTION: POLE STEPS ARE USED ON WOOD POLES WHERE FREQUENT ACCESS TO POLE MOUNTED EQUIPMENT IS REQUIRED. FLAT DRIVING SURFACE AND SHARP POINT EASE INSTALLATION. FETER DRIVE THREAD PERMITS REMOVAL WITH A WRENCH. HOT-DIPPED GALVANIZED FOR CORROSION RESISTANCE. NOTCHED MARK ON STEP INDICATES PROPER DRIVING DEPTH.

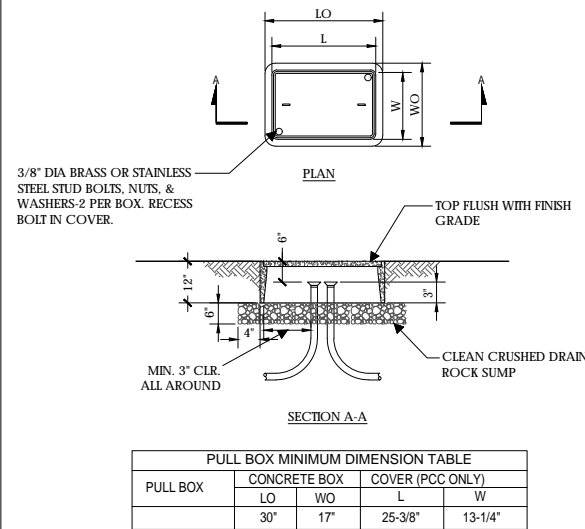


RRUS4449

1 RRUS8843

6 POLE STEPS

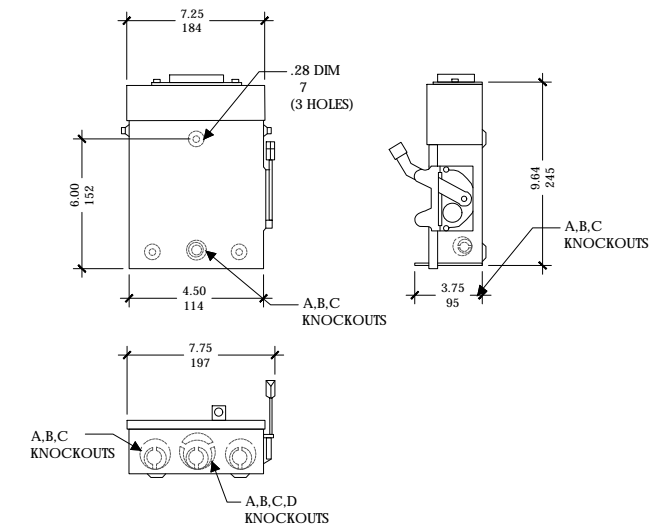
9



HEIGHT: 48.0 INCHES

DIAMETER: 14.6 INCHES

WEIGHT: 38.1 LBS (WITHOUT MOUNTING BRACKET)



FIBER TRANSPORT PULL BOX

2

NOT USED

4

CANTENNA

7

DISCONNECT SWITCH

SCALE NOT TO SCALE 10



UNIT: 100 AMP METER W/ TEST BYPASS

HEIGHT: 24 INCHES

WIDTH: 25 INCHES

DEPTH: 4-5/8 INCHES



NOTE: NEW PHENOLIC SIGN ATTACHED TO EXTERIOR PANEL

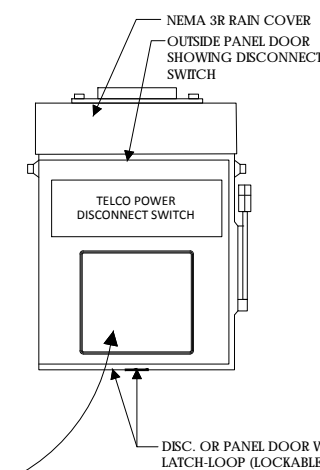
NORMAL SHUT-DOWN PROTOCOLS:

1. Call 800-264-6620 NOC 24 HRS prior to schedule a shutdown day and time.
2. Give NOC the Node number _____.
3. On scheduled day of shutdown, pull the disconnect handle to the "OFF" position.
4. Call NOC when work is completed.

EMERGENCY SHUT-DOWN PROTOCOLS:

1. Call 800-264-6620 NOC immediately.
2. Give NOC the Node number _____.
3. Pull the disconnect handle to the "OFF" position.
4. Call NOC when work is completed.

CONTRACTOR NOTE: SITE ID WILL BE SITE ID, MARKET ID, SITE #, AND SITE NAME



ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE 3' BELOW ANTENNA

SIGN PLACEMENT: AFFIX TO THE STRUCTURE 3-4' BELOW THE COMMERCIAL RF ANTENNA(S) OR 3' BELOW LOWEST POWER WIRE

SIGN COLOR: YELLOW

CONTRACTOR NOTE: SITE ID WILL BE SITE ID, MARKET ID, SITE #, AND SITE NAME

DIPLEXER

3

METER

5

DISCONNECT SIGNAGE

8

RF WARNING SIGNAGE

11

verizon

Verizon Wireless
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Walnut Creek, CA 94598

Client:

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
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707.592.5924
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Project Architect:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World

222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 075
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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Project No.:

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Designed By: JG Checked: RB

EQUIPMENT
DETAILS

Sheet Title:

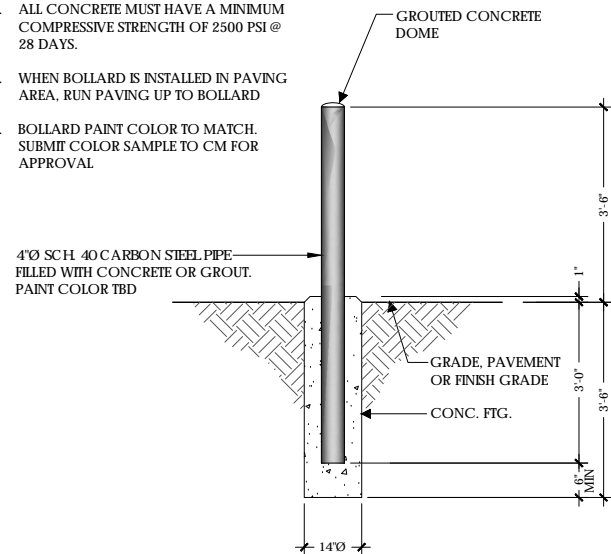
A.5

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NOTES:

1. SPACE BOLLARDS AS SHOWN ON PLAN OR AS DIRECTED BY CONSTRUCTION MANAGER.
2. ALL CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI @ 28 DAYS.
3. WHEN BOLLARD IS INSTALLED IN PAVING AREA, RUN PAVING UP TO BOLLARD
4. BOLLARD PAINT COLOR TO MATCH. SUBMIT COLOR SAMPLE TO CM FOR APPROVAL.



4" DIA. STEEL BOLLARD

SCALE
NOT TO SCALE

1

NOT USED



SINGLE CONDUIT STANDOFF

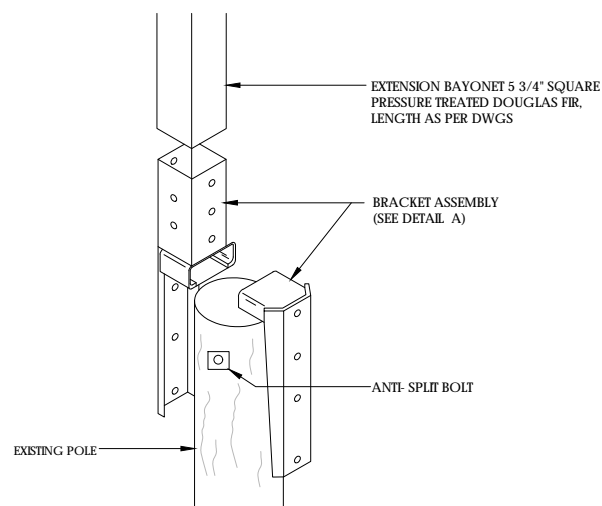


TRIPLE CONDUIT STANDOFF

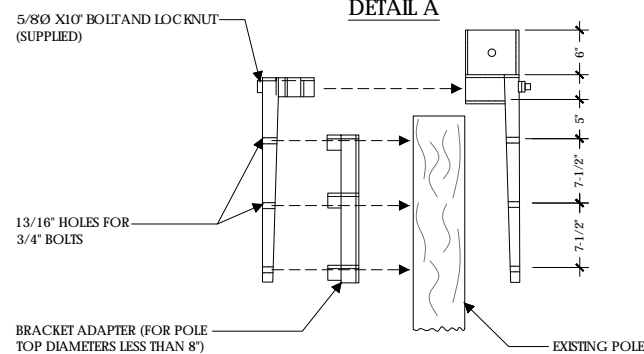
* OR EQUAL

RISER STANDOFF BRACKETS

4



DETAIL A



DETAIL B

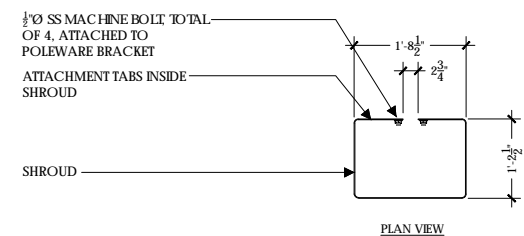
NOTE:
(N) BRACKET ASSEMBLY TO BE PROVIDED BY UTILITY COMPANY AND PAINT TO MATCH

POLETOP WOOD EXTENSION AND BRACKET

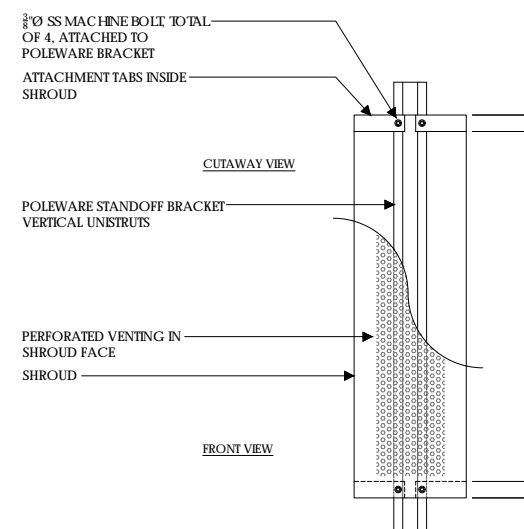
SCALE
NOT TO SCALE

2

RRU SHROUD

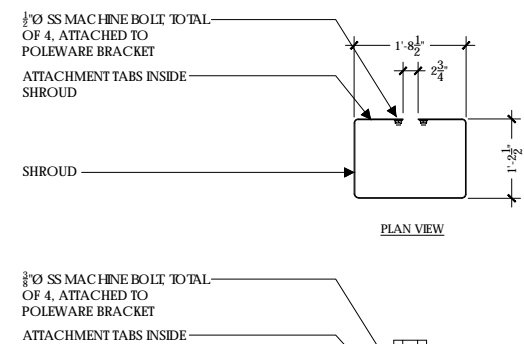


PLAN VIEW



FRONT VIEW

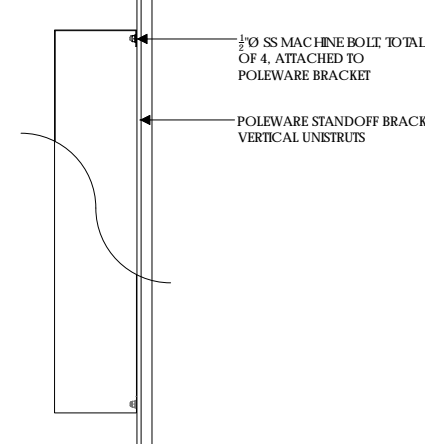
FRONT ELEVATION



CUTAWAY VIEW



ISO



SIDE ELEVATION

NOTE:

1. RRU SHROUD MODEL #PW-RRS-072L-TAH-SP AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
2. ALL COMPONENTS TO BE SHOP PRIMED PAINTED
3. UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
4. CUSTOMER TO SPECIFY SHROUD HEIGHT AT TIME OF ORDERING.



Verizon Wireless
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Walnut Creek, CA 94598

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction
Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

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DETAILS**

Sheet Title:

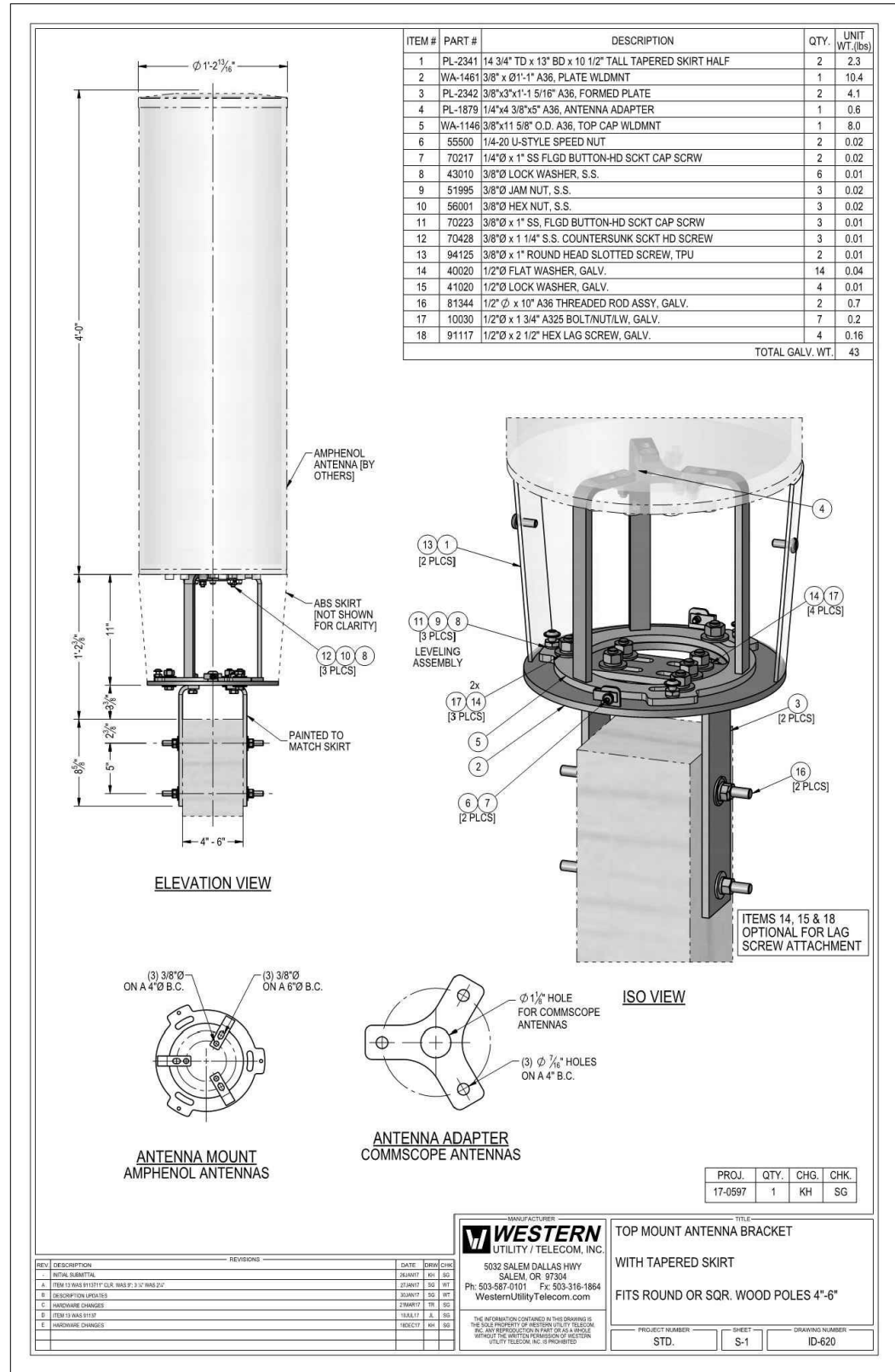
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SCALE
NOT TO SCALE

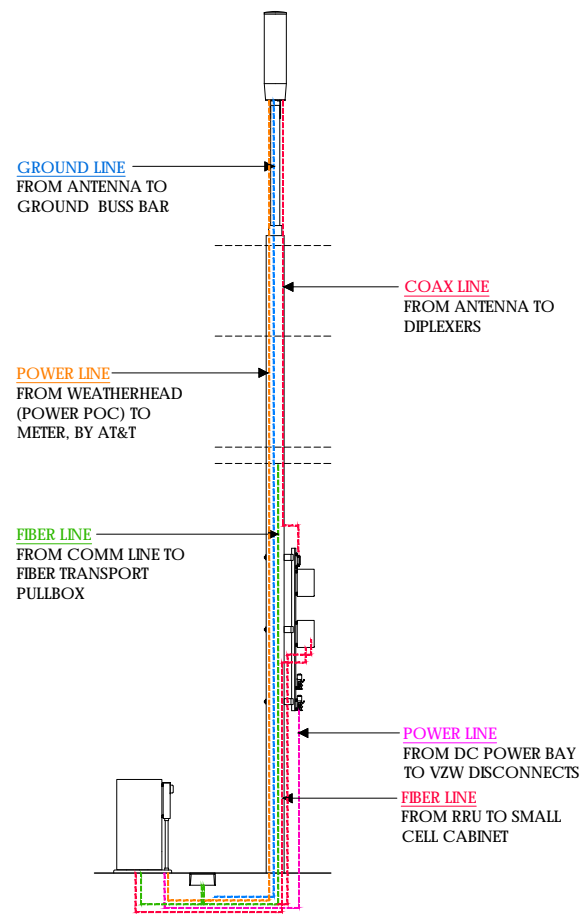
5



CANTENNA SHROUD AND BRACKET

1

PLUMBING DIAGRAM



CONDUIT RISER DIAGRAM

2



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Site Name:

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EQUIPMENT DETAILS
PLUMBING DIAGRAM

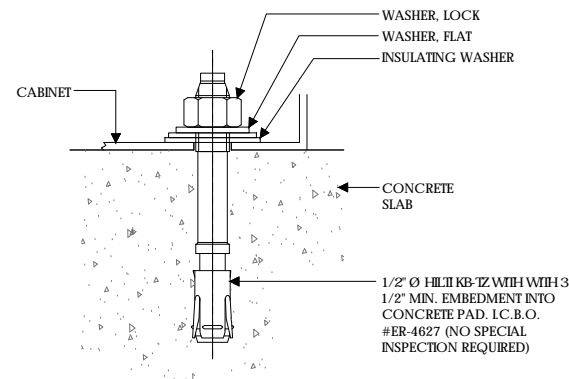
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Sheet No.:

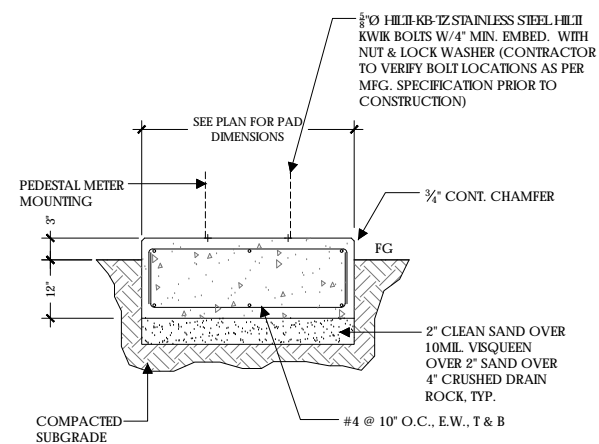
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3



CABINET ANCHORAGE

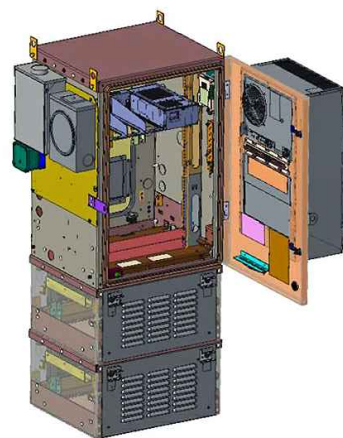
SCALE
N.T.S. **1**



CONCRETE PAD

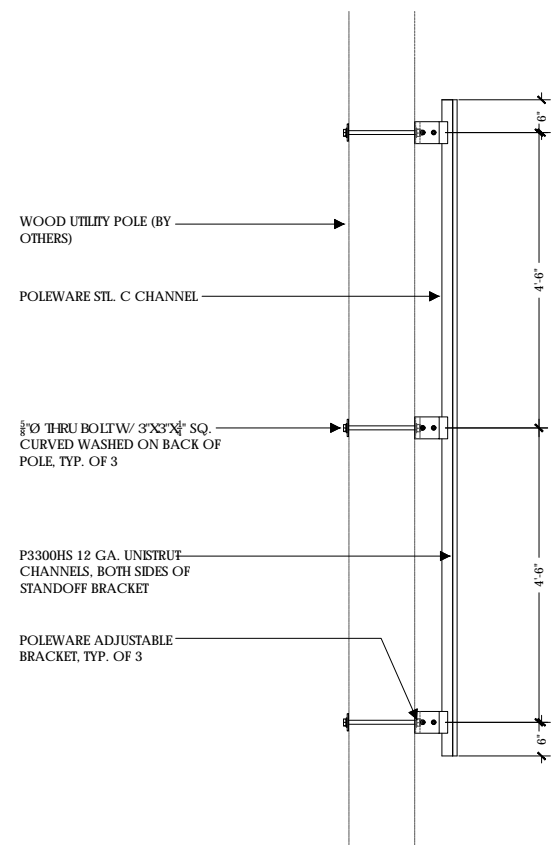
SCALE
NOT TO SCALE **2**

- UNIT: SMALL CELL CABINET
- HEIGHT: 61 INCHES
- WIDTH: 24 INCHES
- DEEP: 30 INCHES
- WEIGHT (FULLY LOADED): 300 LBS

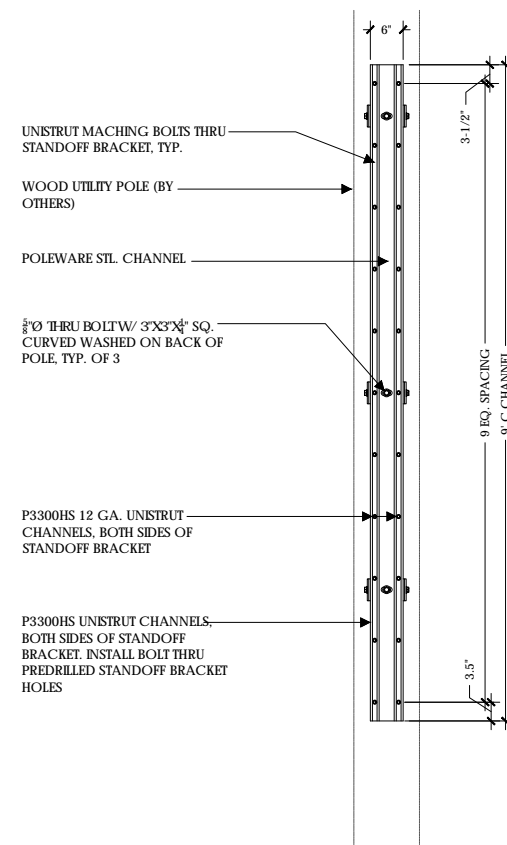


SMALL CELL CABINET

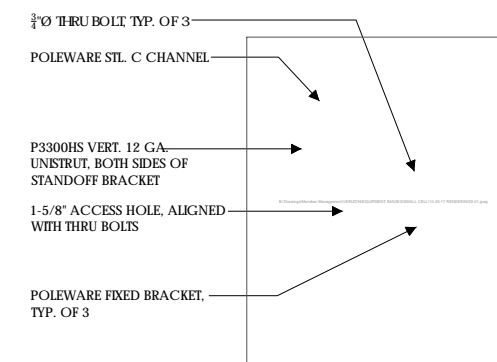
SCALE
NOT TO SCALE **3**



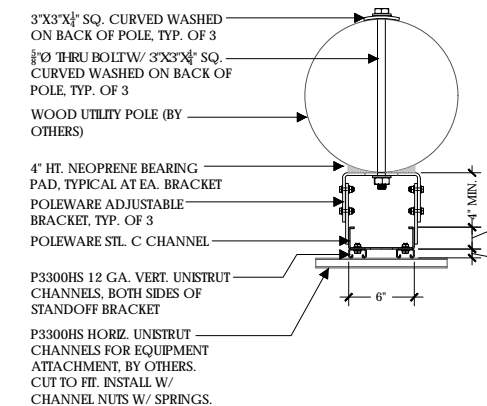
STANDOFF BRACKET SIDE ELEVATION



STANDOFF BRACKET FRONT ELEVATION



STANDOFF BRACKET ISO



STANDOFF BRACKET PLAN

- NOTE:**
1. STANDOFF BRACKET MODEL #PW-SOB-09L-ADJ-SP AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
 2. ALL COMPONENTS TO BE SHOP PRIMED PAINTED
 3. UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
 4. HORIZONTAL UNISTRUTS (P3300HS) FOR EQUIPMENT INSTALLATION NOT INCLUDED
 5. ADJUSTABLE BRACKETS FOR SLANTED POLES AVAILABLE BY SPECIAL ORDER

STANDOFF BRACKET

SCALE
NOT TO SCALE **4**



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Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings

Drawing Phase:

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TAHOE 075**
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(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

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DETAILS

Sheet Title:

A.8

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SUITE 9
LODI, CA 95240

Site Agent:

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Drawings

Drawing Phase:

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TAHOE 075**
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(NEAR) 1751-1755 HIGH
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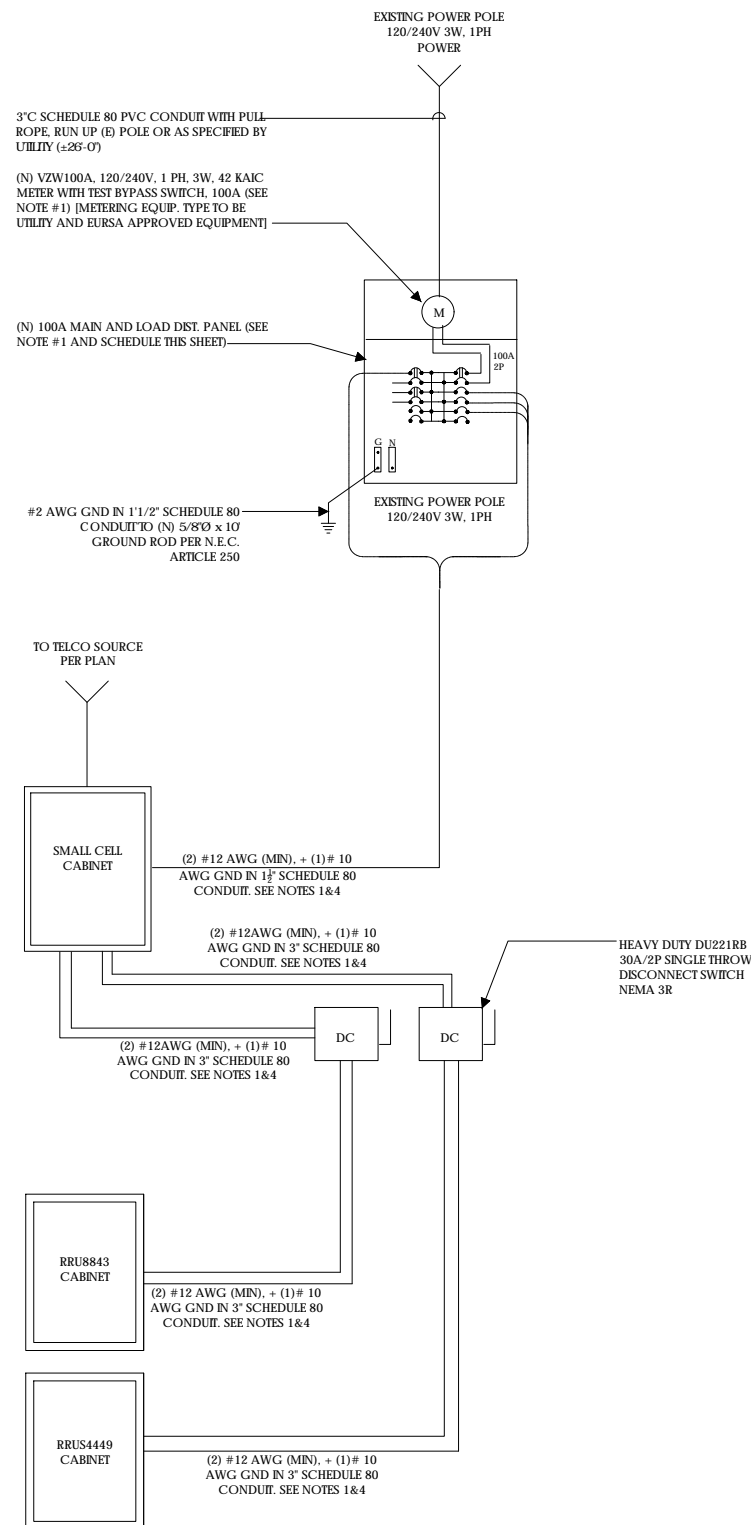
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SINGLE LINE DIAGRAM
BUSS DIAGRAM
PANEL SCHEDULE

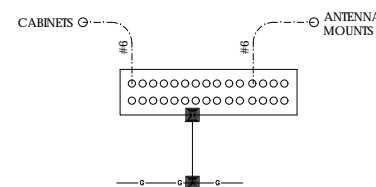
Sheet Title:

E.1

Sheet No.:



SINGLE LINE DIAGRAM



BUSS DIAGRAM

LOAD CALCULATIONS - VERIZON WIRELESS

EXISTING LOAD:	0 AMPS
NEW LOAD:	17.9 AMPS MAX.
NEW TOTAL LOAD:	17.9 AMPS MAX.

POWER AND TELCO DESIGN IS BASED ON INITIAL SITE VISIT.
CONTRACTOR SHALL OBTAIN CURRENT UTILITY COORDINATOR PLANS PRIOR TO START OF CONSTRUCTION.

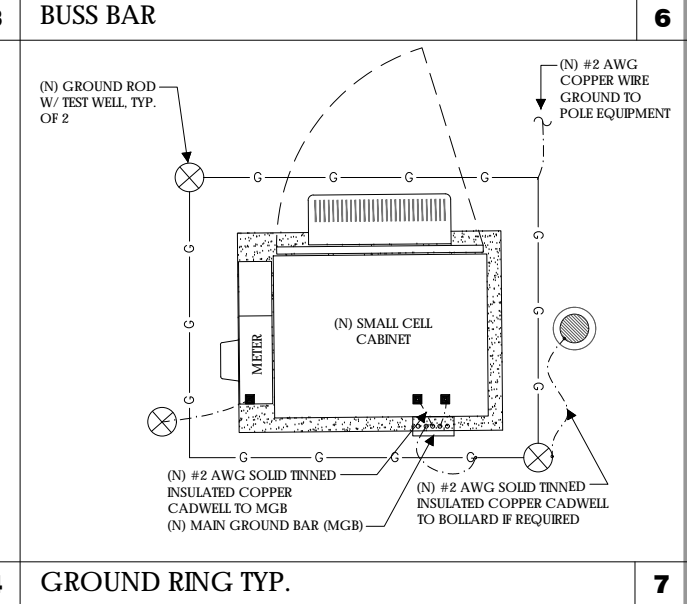
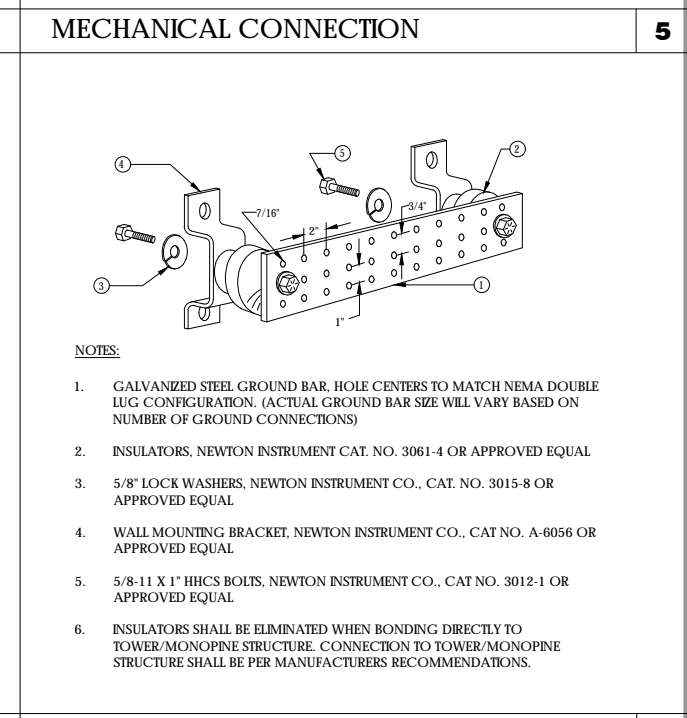
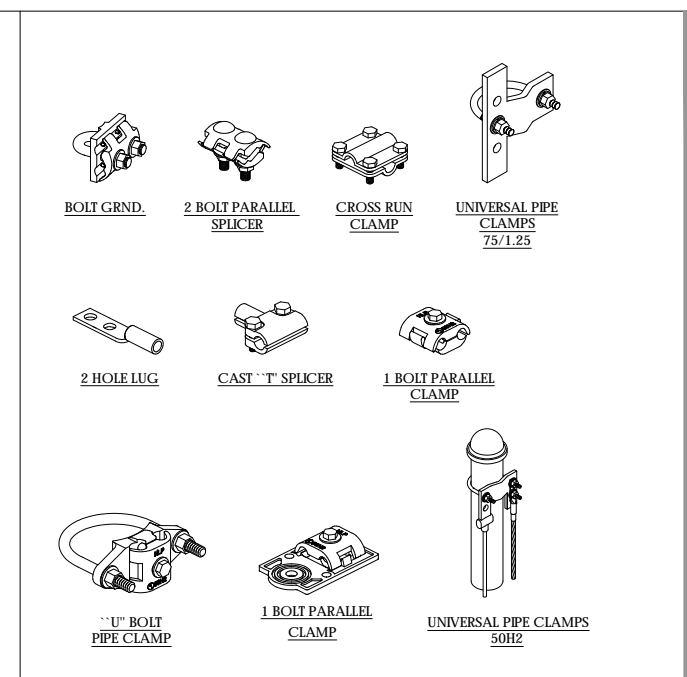
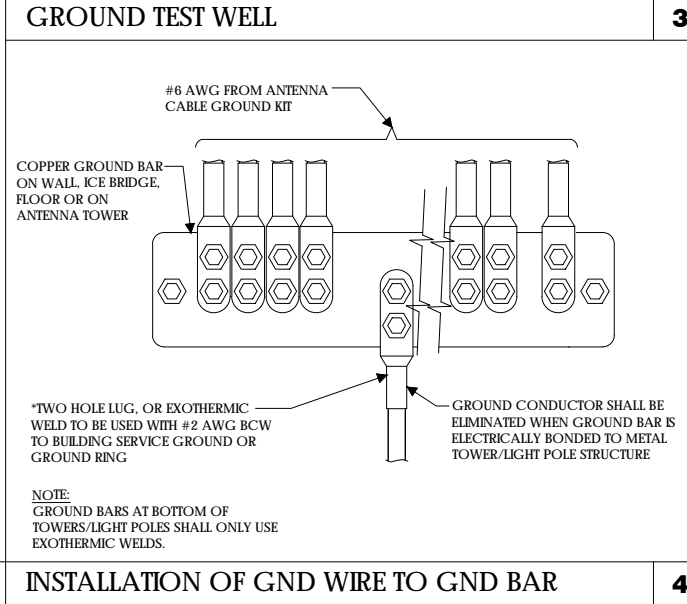
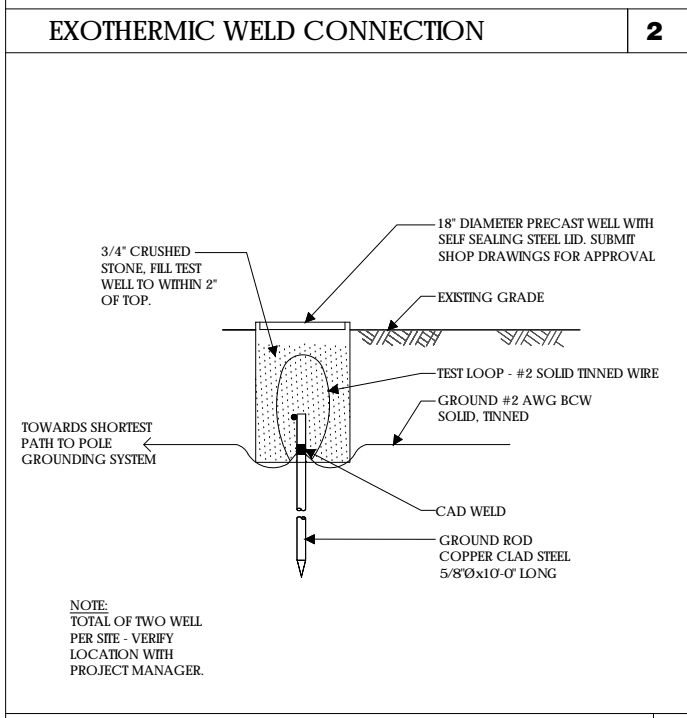
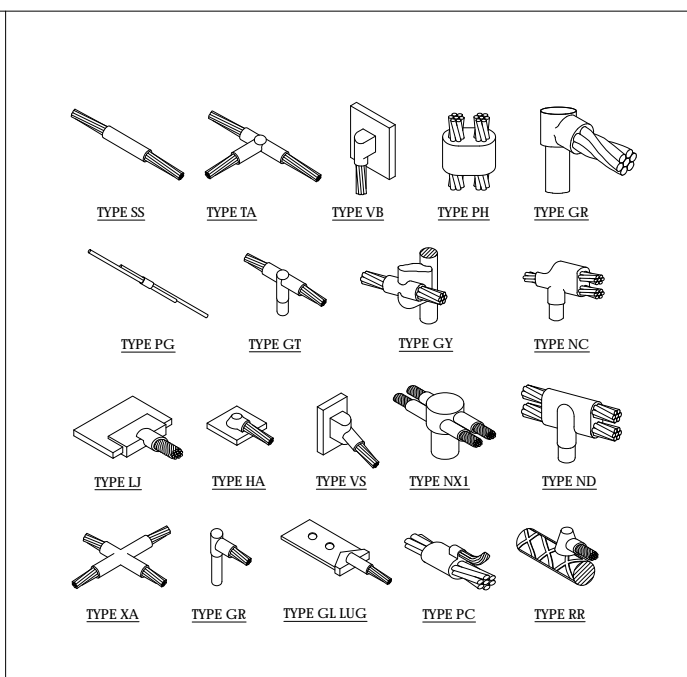
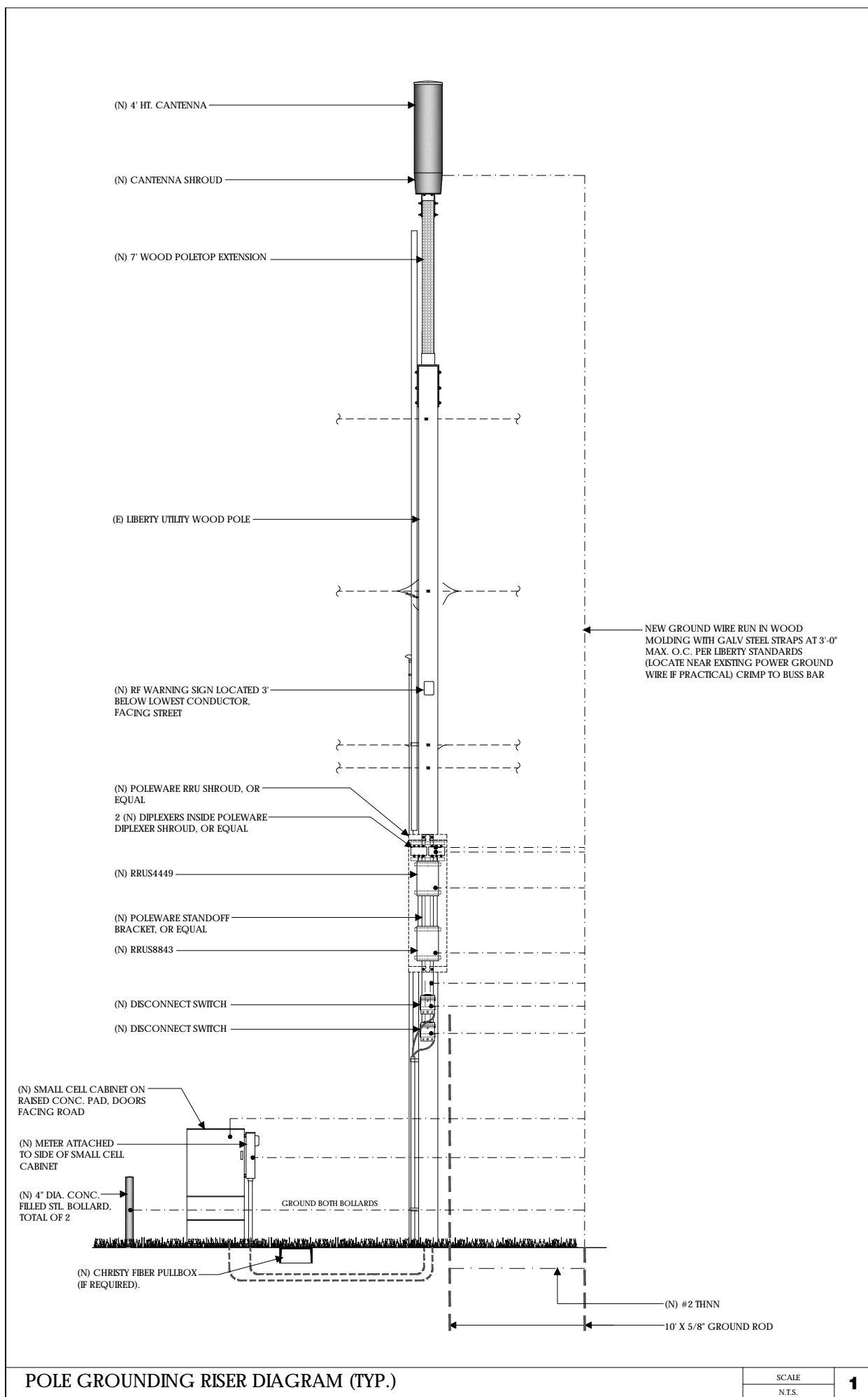
AVAILABLE FAULT CURRENT PER UTILITY.
NOTE: CONTRACTOR TO CHECK WITH UTILITY TO ENSURE ELEC. METER IS BRACED FOR ACTUAL FAULT CURRENT.

POWER AND TELCO NOTES:

- POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
- CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
- CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

GENERAL ELECTRICAL NOTES:

- PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
- THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE 24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK. ERECT & MAINTAIN APPROVED & SUITABLE BARRIERS, PROTECTIVE DEVICES & WARNING SIGNS, BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS.
- COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
- ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.
- FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY, VERIFY LOCATION FOR FACILITIES & DETAILS WITH POWER UTILITY, IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.
- ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "THWN" OR "TWN".
- PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.
- UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, S/DUAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS, SWITCHES AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A 5 OHM OR LESS GROUNDING PATH, ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.



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Client:



Project Architect:

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WIRELESS GROUP LLC
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SUITE 9
LODI, CA 95240

Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

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Designed By: JG Checked: RB

GROUNDING PLAN
ELECTRICAL DETAILS
Sheet Title:

E.2
Sheet No.:

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POLE GROUNDING RISER DIAGRAM (TYP.) SCALE N.T.S. 1

INSTALLATION OF GND WIRE TO GND BAR 4

GROUND RING TYP. 7

BUSS BAR 6

EXOTHERMIC WELD CONNECTION 2

MECHANICAL CONNECTION 5

PLAN NOTES:

1. PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE-SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRM PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFIED BY THE AUTHORITY HAVING JURISDICTION.
2. EXTEND CHANNELIZATION DEVICES INTO SHOULDER WHERE APPLICABLE.
3. DISTANCES AS INDICATED IN TABLE 1 SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING. DISTANCES SUCH AS DOWNGRADES OR LIMITED SIGHT DISTANCES. DISTANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTIAL) AREAS WITH APPROVAL BY THE AUTHORITY HAVING JURISDICTION. NIGHT-TIME WORK IS PROHIBITED UNLESS IT IS REQUIRED AS A CONDITION OF APPROVAL BY THE HIGHWAY AND LOCAL AUTHORITY HAVING JURISDICTION.
4. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH.
5. MAINTAIN A MINIMUM LANE WIDTH OF 10'.

DOT NOTES:

1. WHEN LANE CLOSURE IS REQUIRED, THE TRAFFIC CONTROL PLAN SHOULD BE PROVIDED AND NOTARIZED BY AN INDIVIDUAL/COMPANY THAT HAS FLAGGER CONTROL TRAINING CERTIFICATION.
2. "BLUE-LIGHTS" (OFF-DUTY POLICE OFFICERS) WILL BE ON SITE FOR LANE CLOSURES AND IF REQUIRED.

LEGEND







-  CHANNELIZING DEVICE
-  SIGN
-  WORK SPACE
-  FLAGGER
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW SIGN (FAS)



TABLE 1

POSTED SPEED (MPH)	DISTANCE BETWEEN SIGNS			TAPER	BUFFER
	A	B	C	L (SEE NOTE)	
15	100'	100'	100'	45'	100'
20	100'	100'	100'	80'	115'
25	100'	100'	100'	125'	155'
30	200'	200'	200'	180'	200'
35	200'	200'	200'	245'	250'
40	350'	350'	350'	320'	305'
45	350'	350'	350'	540'	360'
50	500'	500'	500'	600'	425'
55	500'	500'	500'	660'	495'
60	500'	500'	500'	720'	570'
65	500'	500'	500'	780'	645'

- NOTES:**
- A) DISTANCES IN FEET UNLESS OTHERWISE NOTED.
 - B) CONTRACTOR TO VERIFY EXISTING SPEED LIMIT.
 - C) DISTANCES SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS. CONSULT STATE DOT MANUAL FOR DISTANCES.
 - D) ADJUST DISTANCES TO COMPLY WITH REQUIREMENT OF THE STATE OR LOCAL HIGHWAY AUTHORITY HAVING JURISDICTION. SEE NOTE 1, SHEET TC-2.
 - E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH.



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Project Architect:



Site Agent:

100% Construction Drawings
(B) LIGHT POLE
Drawing Phase:

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TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972
Site Name:

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Designed By: JG Checked: RB

VEHICLE TRAFFIC CONTROL PLAN
Sheet Title:

TC.1
Sheet No.:

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SC SOUTH LAKE TAHOE 060

PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150

PSL #471233



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2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



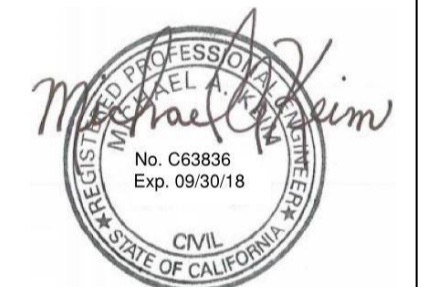
Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

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Rev.	Date	Description
01	03/27/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

TITLE SHEET

Sheet Title:

T.1

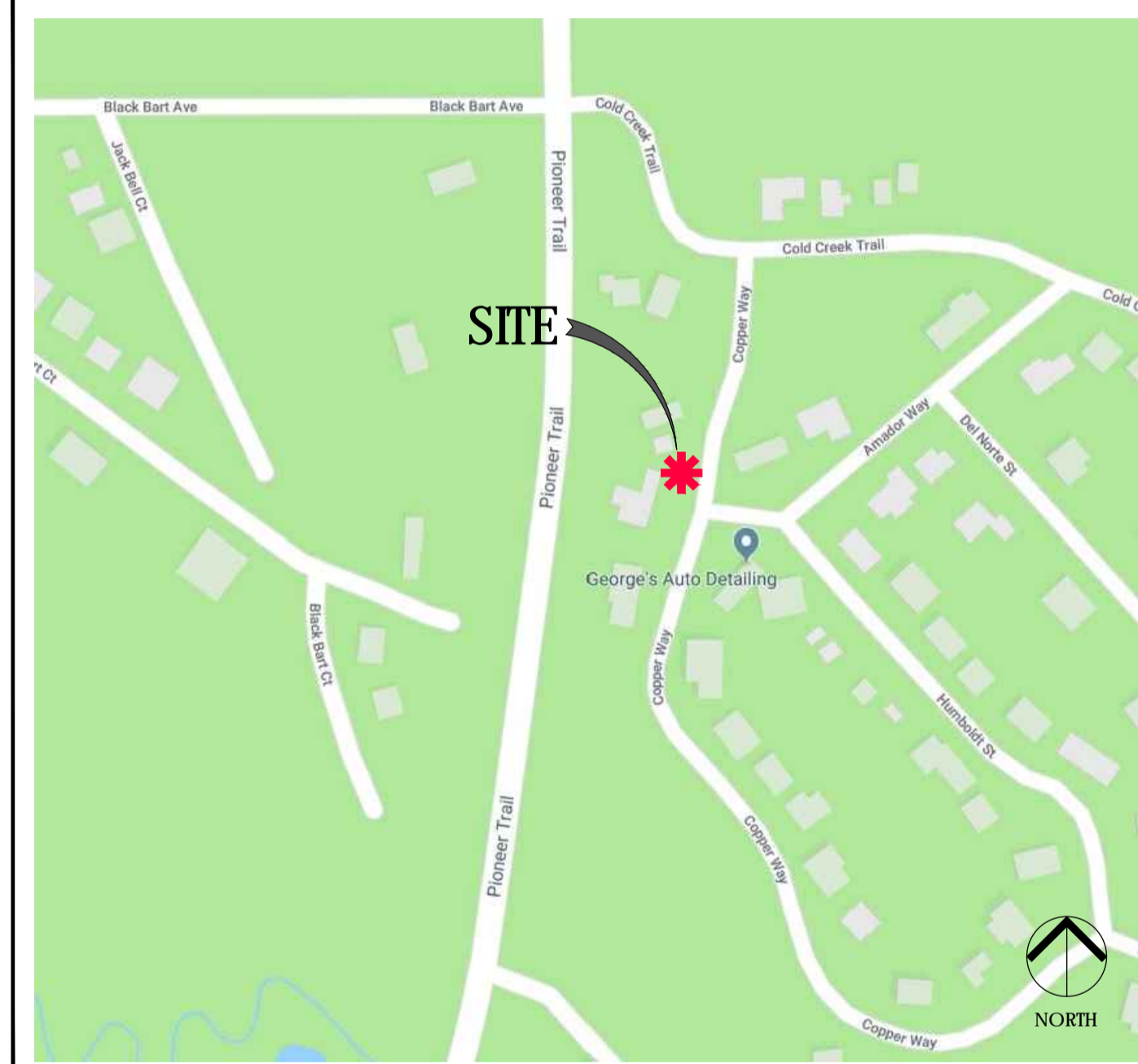
Sheet No.:

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SITE INFORMATION

PSL #: 471233
OWNER: LIBERTY UTILITIES
701 NATIONAL AVENUE
TAHOE VISTA, CA 96148
ERIC TROSKA
T 775-870-2469
M 775-870-2469
APPLICANT: VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598
AGENT: EPIC WIRELESS
222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240
TEL: (916) 781-5921
APN ADJACENCY: (IFO) 025-452-051
SITE ADDRESS: PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
COUNTY: EL DORADO
ZONING: PUBLIC ROW
ZONING JURISDICTION: EL DORADO COUNTY
LAT: 38° 54' 42.39"
LONG: 119° 57' 39.01"
ELEVATION: ±6537.9' AMSL

VICINITY MAP



PROJECT TEAM

AGENT

Epic Wireless Group, Inc.
222 W. Lockeford Street
Suite 9
Lodi, CA 95240
Tel: (916) 781-5921

CONSTRUCTION MANAGER: ROB HERNANDEZ

cell: 916.216.7931
email: rob.hernandez@epicwireless.net

LEASING & ZONING MGR: MARK LOBAUGH

cell: 916.203.4067
email: mark.lobaugh@epicwireless.net

ARCHITECT/ENGINEER

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
www.meridian.management

PROJECT MANAGER: RODNEY BARNES

cell: 707.592.5924
email: rodney@meridian.management

CLIENT

Verizon Wireless
2785 Mitchell Drive
Suite 9
Walnut Creek, CA 94598

HANDICAP REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH
CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24,
CHAPTER 11B, SECTION 1103B.

Exhibit D2

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE VERIZON WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING WOOD POLE IN THE PUBLIC RIGHT-OF-WAY.

SCOPE OF WORK

- INSTALL NEW TELECOMMUNICATIONS EQUIPMENT BOXES ON AN EXISTING 41.0' HT. WOOD POLE.
- ALL POLE-MOUNTED EQUIPMENT TO BE INSTALLED ON A GO95 COMPLIANT STANDOFF BRACKET.
- EQUIPMENT CONSISTS OF (1) CANTENNA ON 7' WOOD POLETOP EXTENSION, (1) RRU54449, (1) RRU58843, (2) DIPLEXERS, (2) DISCONNECT SWITCHES, (1) RRU SHROUD, (2) STL BOLLARDS, (1) GROUND-MOUNTED SMALL CELL CABINET, AND A POWER METER ON SIDE OF SMALL CELL CABINET.
- OVERHEAD POWER FROM TRANSFORMER.
- INSTALL POLE STEPS AS REQUIRED
- ALL POLE-MOUNTED EQUIPMENT INCLUDING CONDUIT RISERS TO BE INSTALLED MIN. 5" FROM POLE ON STANDOFF BRACKETS
- ALL EQUIPMENT TO BE PAINTED VALSPAR 'DEEP EARTH' COLOR.

DRAWING INDEX

SHEET NO:	SHEET TITLE
T.1	TITLE SHEET
C.1	SITE SURVEY
A.1	OVERALL SITE PLAN
A.2	POLE PLAN ENLARGEMENTS
A.3	ELEVATIONS
A.4	ELEVATIONS
A.5	EQUIPMENT DETAILS
A.6	EQUIPMENT DETAILS
A.7	EQUIPMENT DETAILS, PLUMBING DIAGRAM
A.8	EQUIPMENT DETAILS
E.1	SINGLE LINE DIAGRAM, BUSS DIAGRAM, PANEL SCHEDULE
E.2	POLE GROUNDING, ELECTRICAL DETAILS
TC.1	VEHICLE TRAFFIC CONTROL PLAN

ADMINISTRATIVE REQUIREMENTS

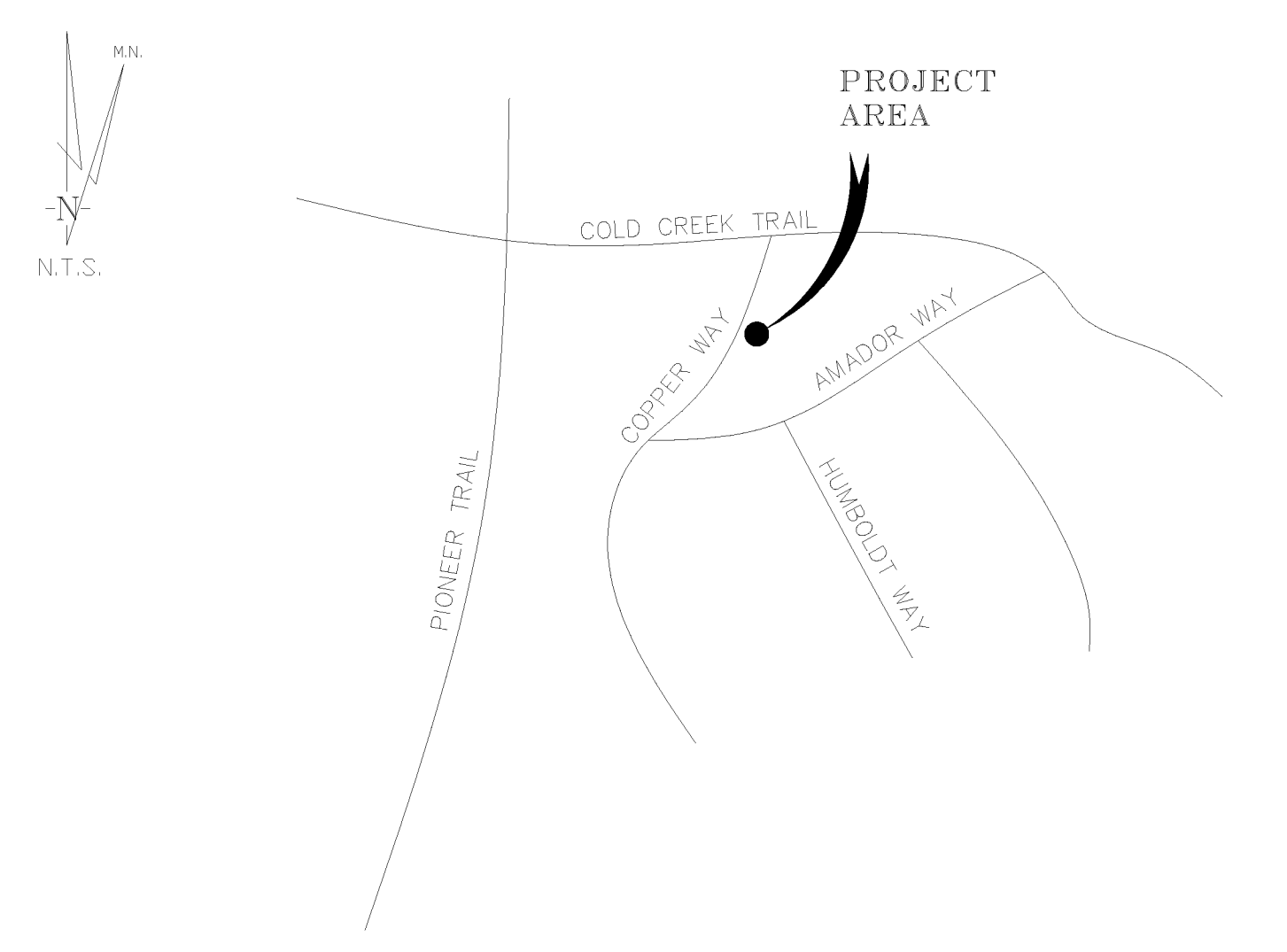
CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

CODE COMPLIANCE

CONSTRUCTION WORKS AND MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:

- CALIFORNIA CODE OF REGULATIONS
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRIC CODE
- 2016 GREEN CODE
- 2016 EDITION OF TITLE 24 ENERGY STANDARDS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES
- 2016 CALIFORNIA FIRE CODES WITH ALL LOCAL AMENDMENTS
- GO 95 REGULATIONS

- LEGEND**
- PARCEL BOUNDARY
 - NEIGHBORING PARCEL BOUNDARY
 - LEASE AREA BOUNDARY
 - UTILITIES
 - (E) EASEMENTS
 - (P) EASEMENTS
 - FENCE LINE
 - JP JOINT UTILITY POLE
 - TP TELEPHONE POLE
 - EP ELECTRICAL POLE
 - W WATER VALVE
 - W WATER BOX
 - SSMH SANITARY SEWER MANHOLE
 - SDMH STORM DRAIN MANHOLE
 - DI DROP INLET
 - 8" OAK TREE WITH DIAMETER BREAST HEIGHT (DBH)



SOUTH LAKE TAHOE, CA **VICINITY MAP**

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

DATE OF SURVEY: 02-22-18

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, RCE 14803
LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 4.16' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: N.A.

ASSESSOR'S PARCEL NUMBER: PUBLIC RIGHT OF WAY COPPER WAY

LANDLORD(S): LIBERTY UTILITIES
701 NATIONAL AVENUE
TAHOE VISTA, CA 96148

Project Name: SC South Lake Tahoe 060

Project Site Location: PROW Copper Way
South Lake Tahoe, CA
El Dorado County

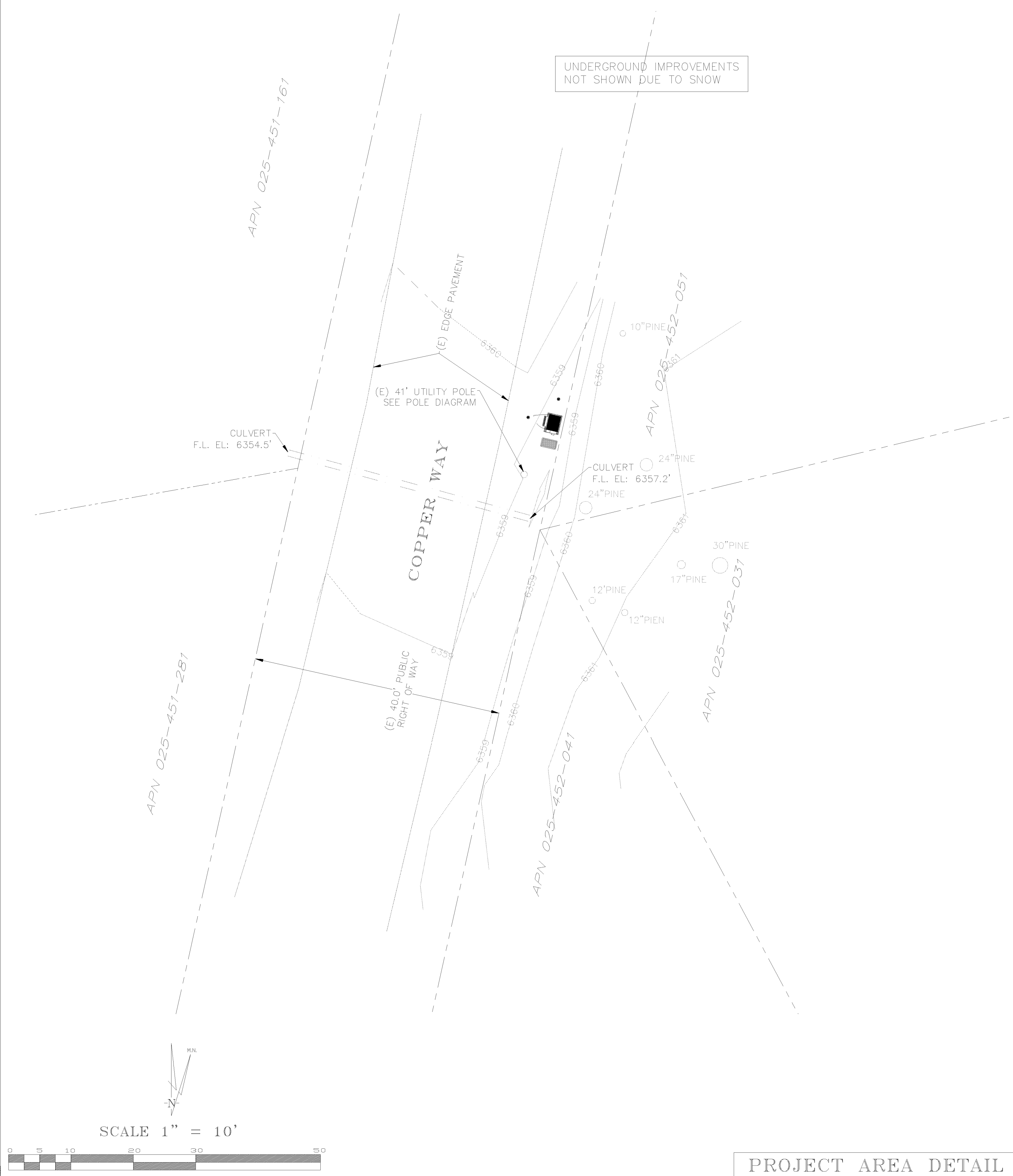
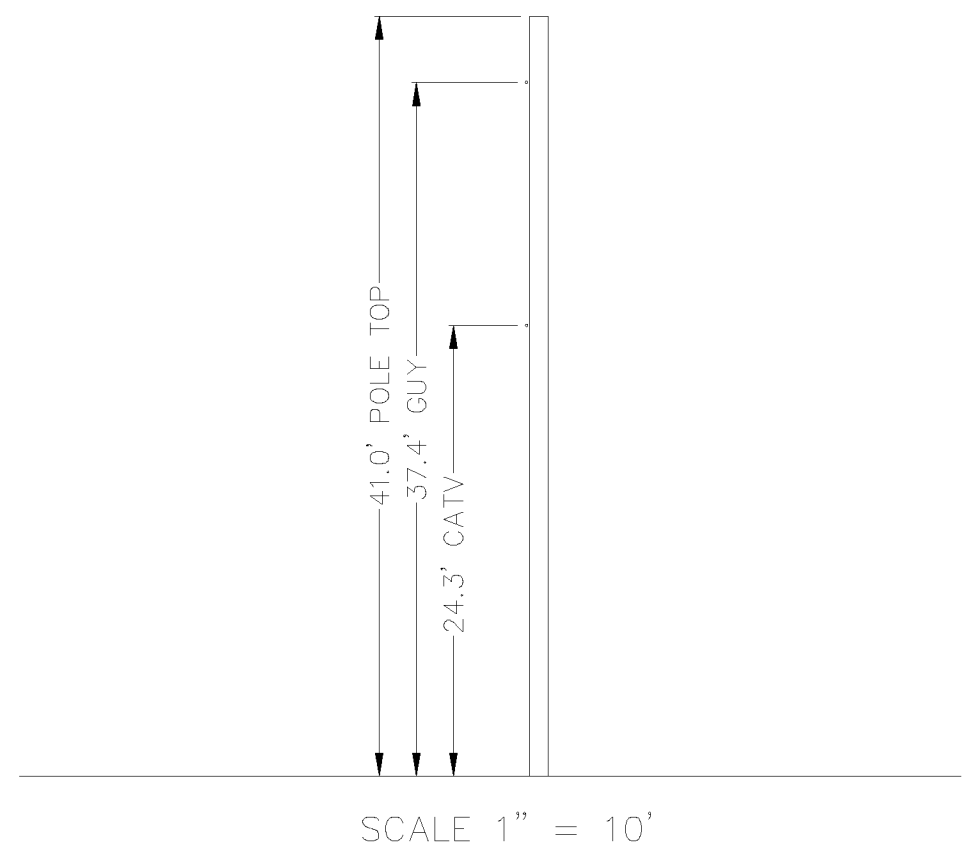
Date of Observation: 02-22-18

Equipment/Procedure Used to Obtain Coordinates: Trimble GeoXT
post processed with Pathfinder Office software.

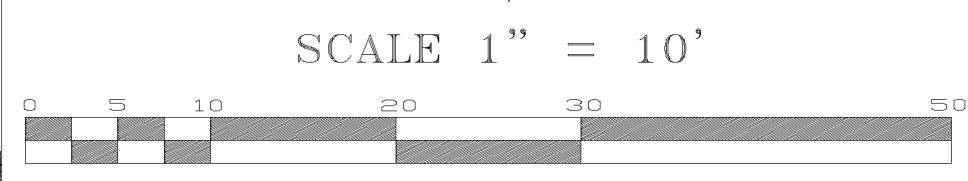
Type of Antenna Mount: Existing Utility Pole

Coordinates:
Latitude: N 38°54'42.39" (NAD83) N 38°54'42.73" (NAD27)
Longitude: W 119°57'39.01" (NAD83) W 119°57'35.36" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 6357.9' AMSL
Height of Structure: 41.0' AGL



UNDERGROUND IMPROVEMENTS NOT SHOWN DUE TO SNOW



PROJECT AREA DETAIL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

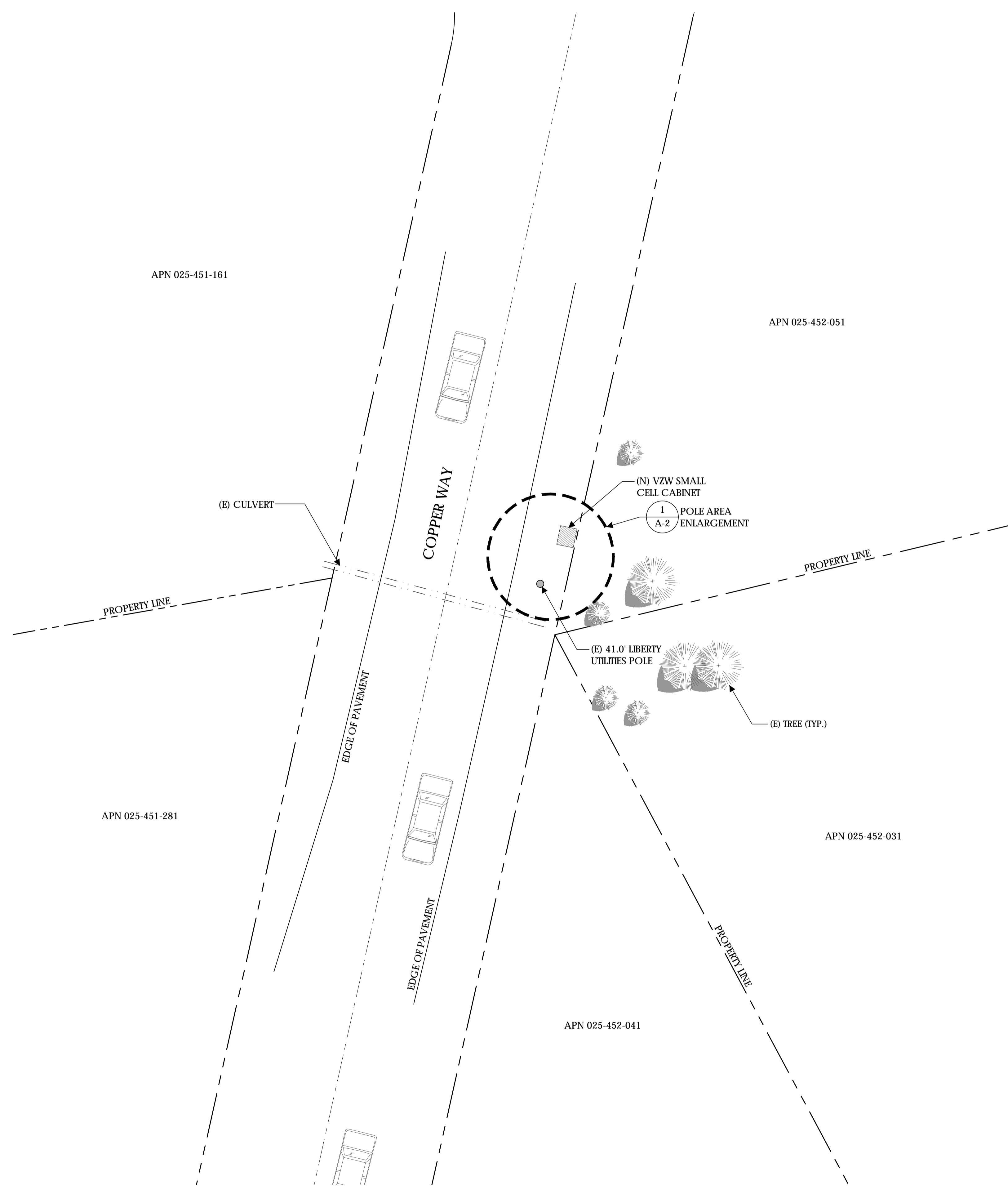
Surveyor
GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1220 HIGH STREET
AUBURN, CALIFORNIA 96608
PHONE: (530) 825-1300
FAX: (530) 825-1300

verizon

SC South Lake Tahoe
060
PROW Copper Way
South Lake Tahoe, CA
PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS	DATE	DESCRIPTION
02-25-18		Preliminary Drawing

NO.	DATE	DESCRIPTION



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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Rev.	Date	Description
01	03/27/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

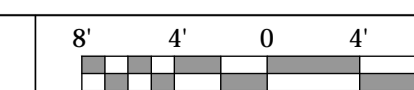
OVERALL SITE
PLAN

Sheet Title:

A.1

Sheet No.:

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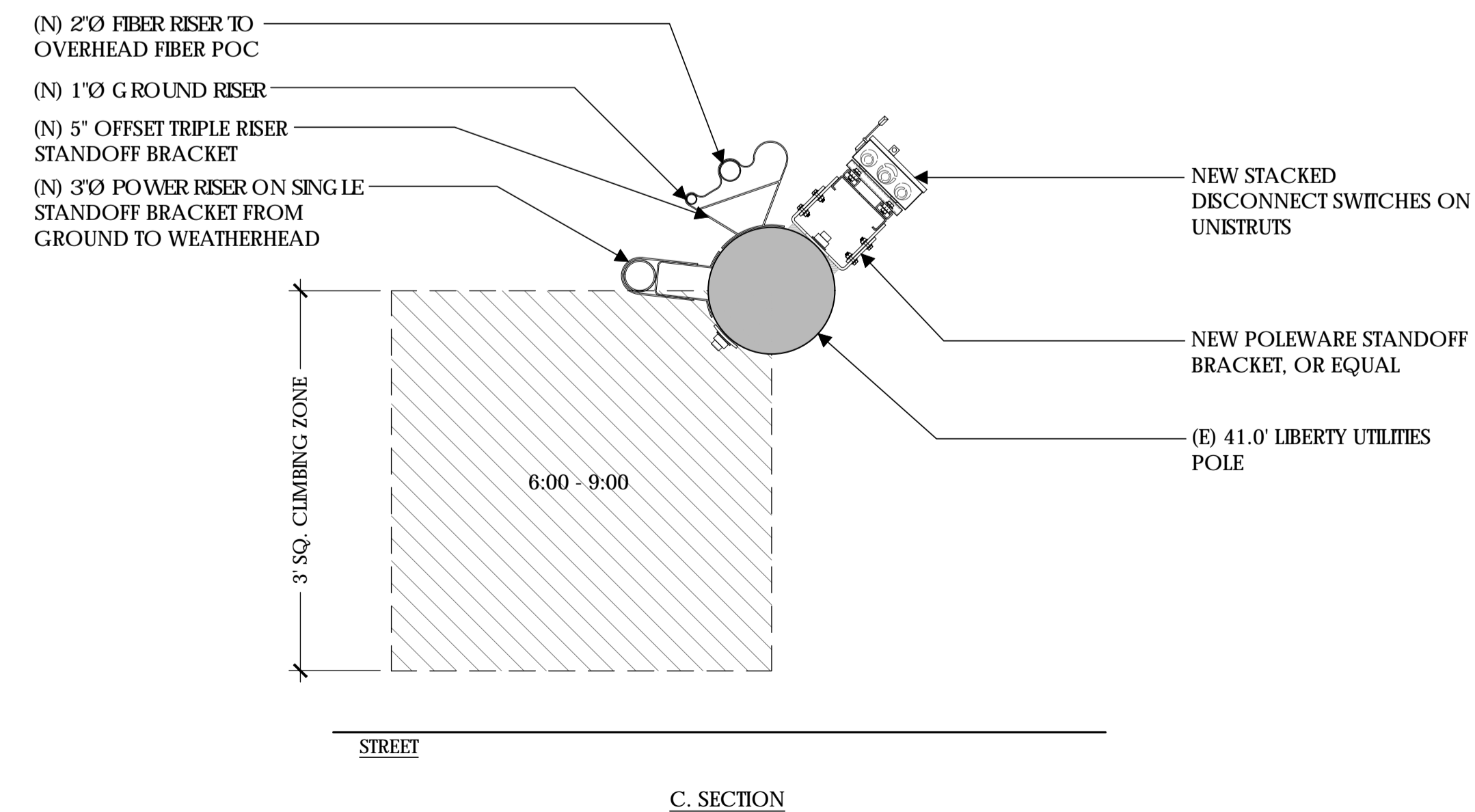
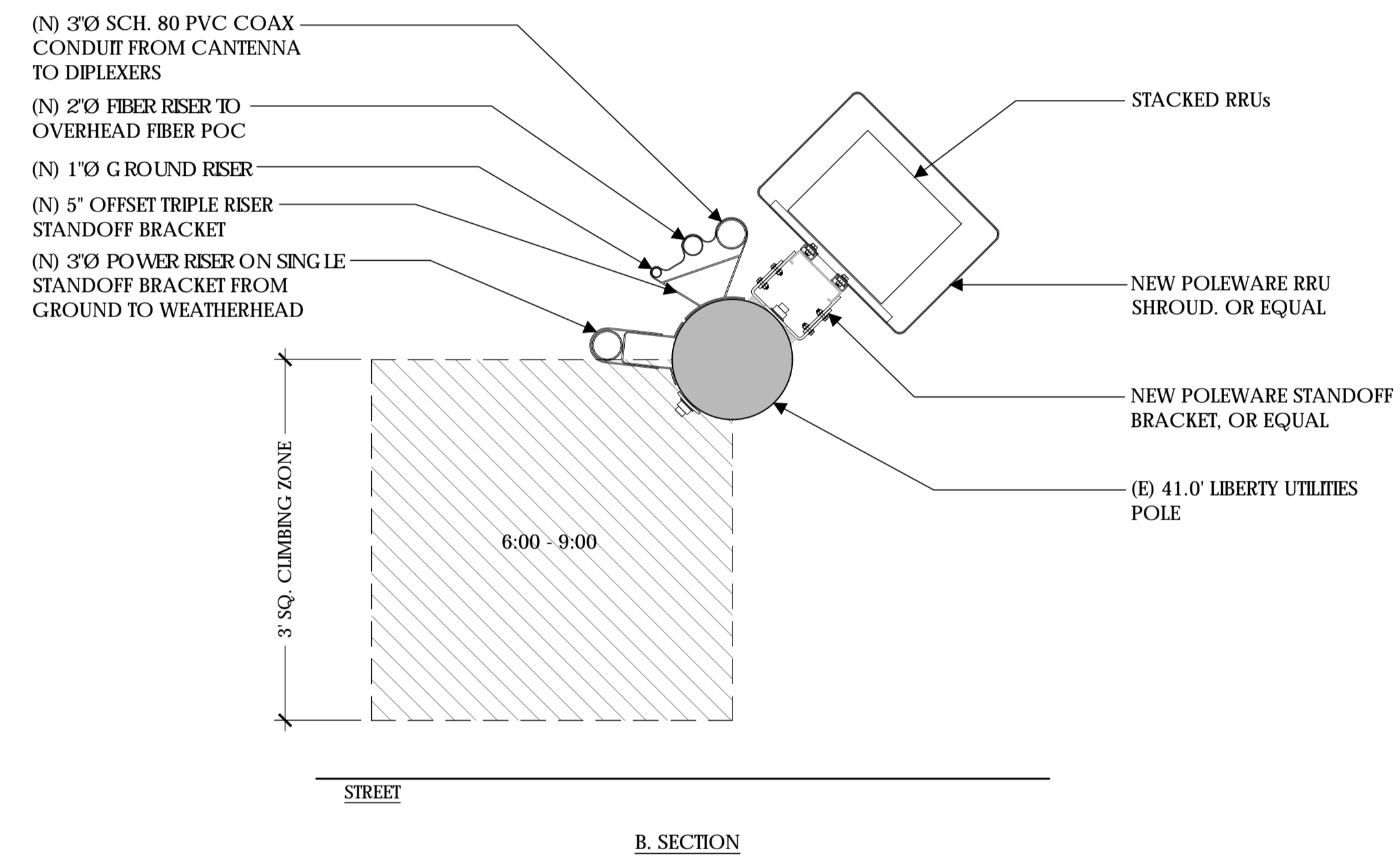
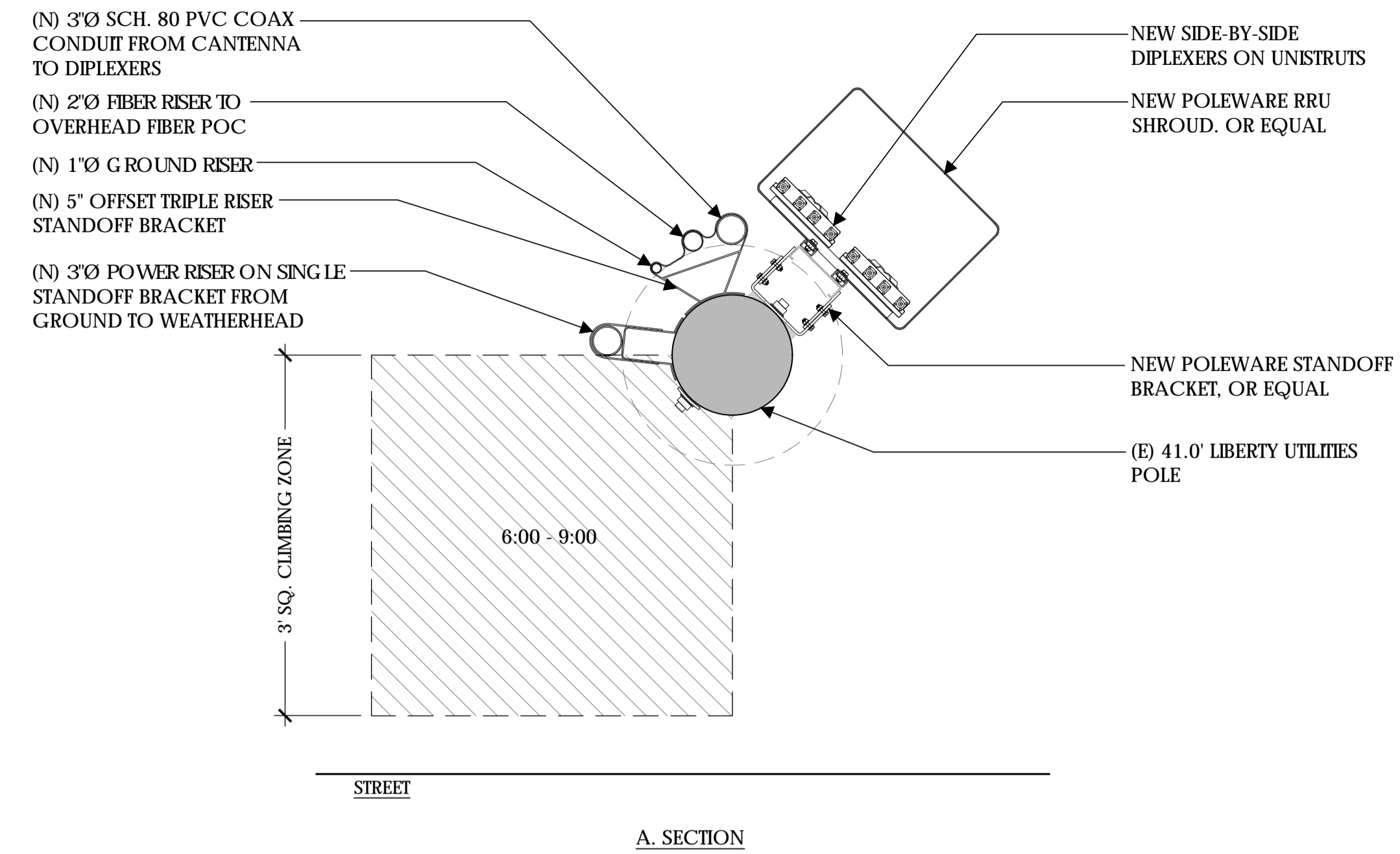
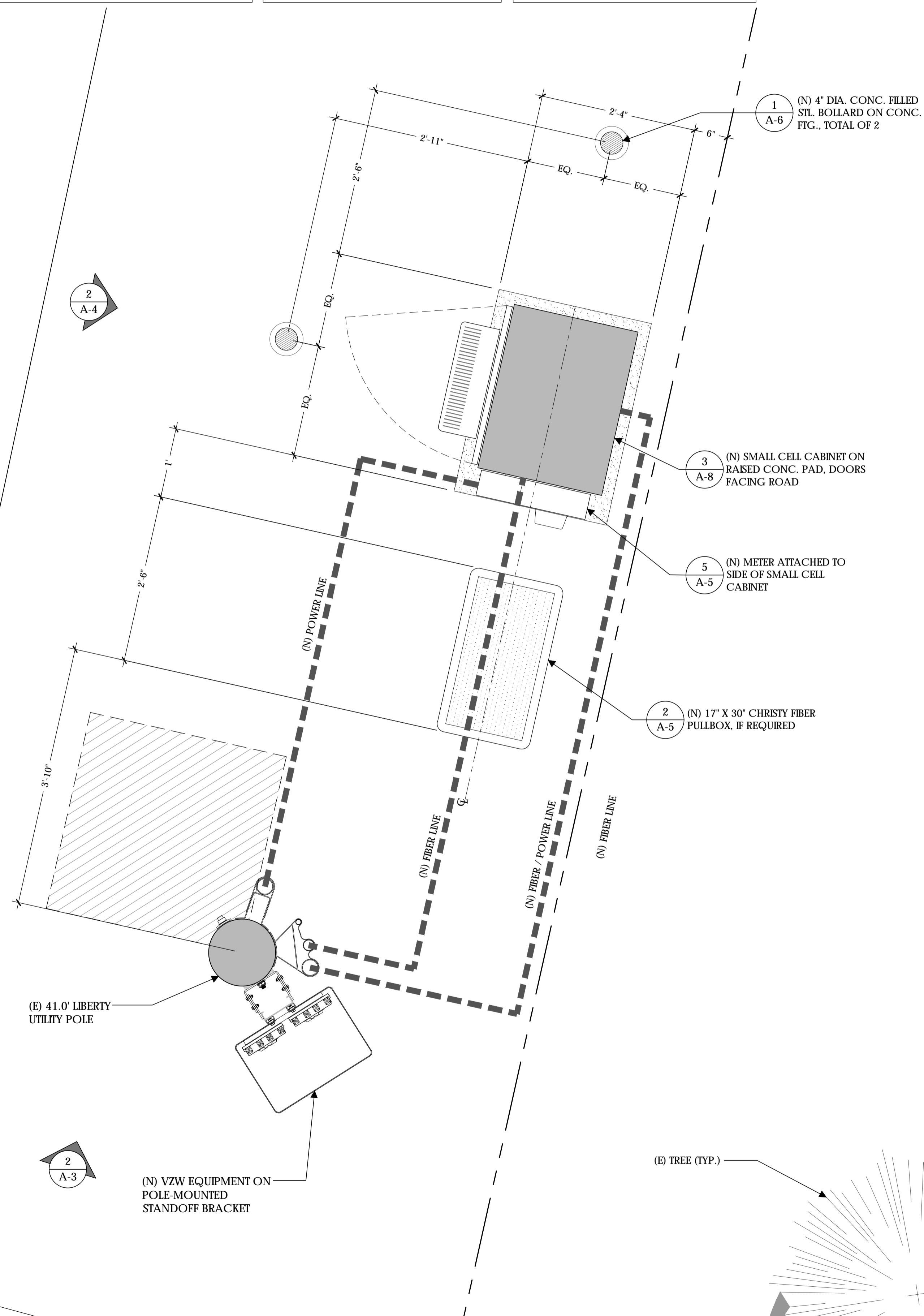


(N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 1:30 ORIENTATION RELATIVE TO THE STREET. CLIMBING SPACE IS BETWEEN 6:00 AND 9:00. POLE STEPS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE. SEE CONDUIT RISER DETAIL FOR LAYOUT OF RISERS

EQUIPMENT SYSTEM:
ALL NEW COMPONENTS NOT SHOP PAINTED SHOULD BE FIELD PAINTED VALSPAR 'DEEP EARTH' COLOR

NEW CONDUIT FOR POWER/TELCO:
(1) 3" CONDUIT FOR POWER
(1) 2" CONDUIT FOR FIBER
(1) 3" CONDUIT FOR COAX
(1) 1" CONDUIT FOR GROUND

COPPER WAY



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
Lodi, CA 95240

Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 060**
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

PLAN ENLARGEMENT
POLE PLAN
ENLARGEMENTS

Sheet Title:

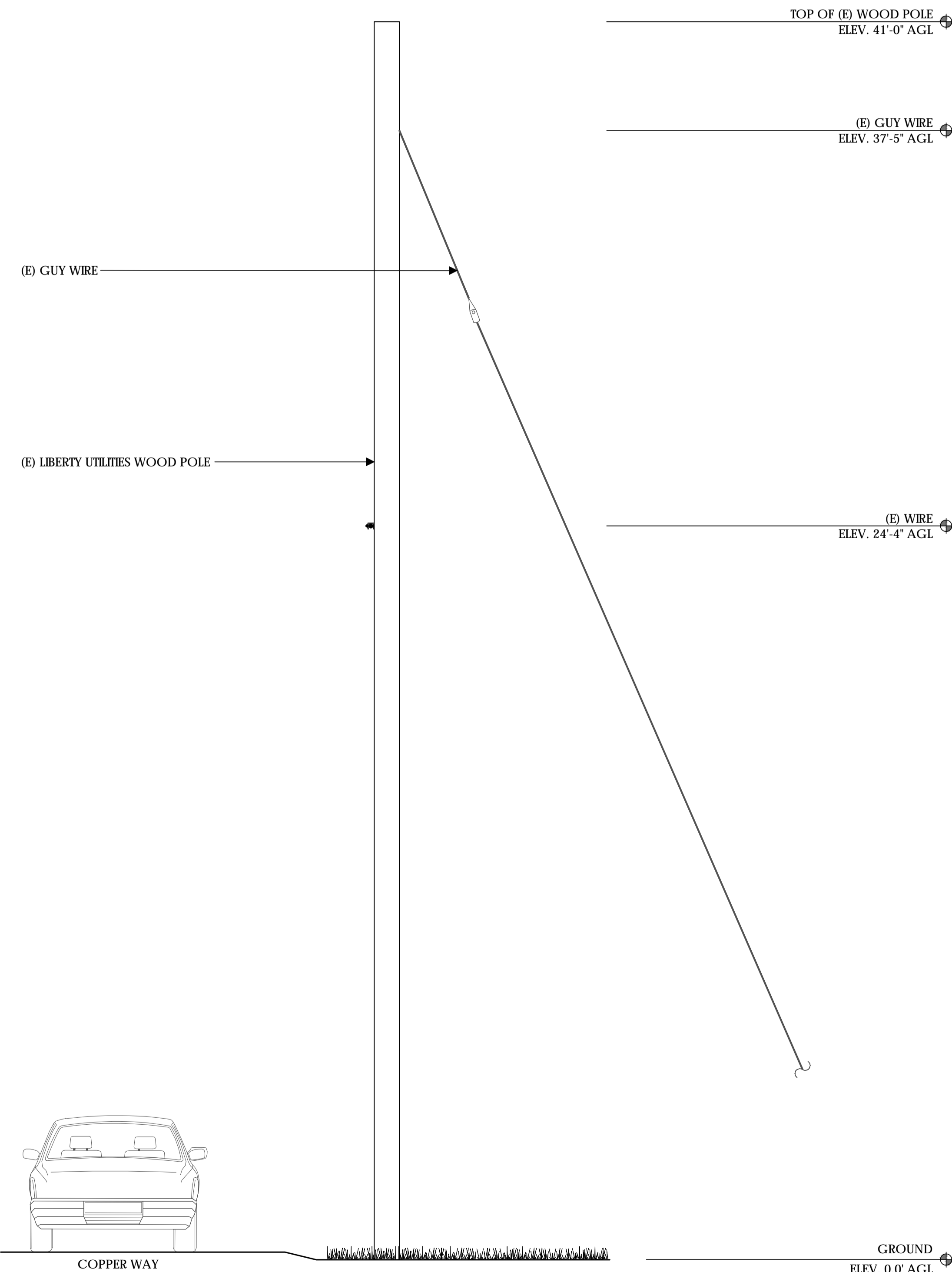
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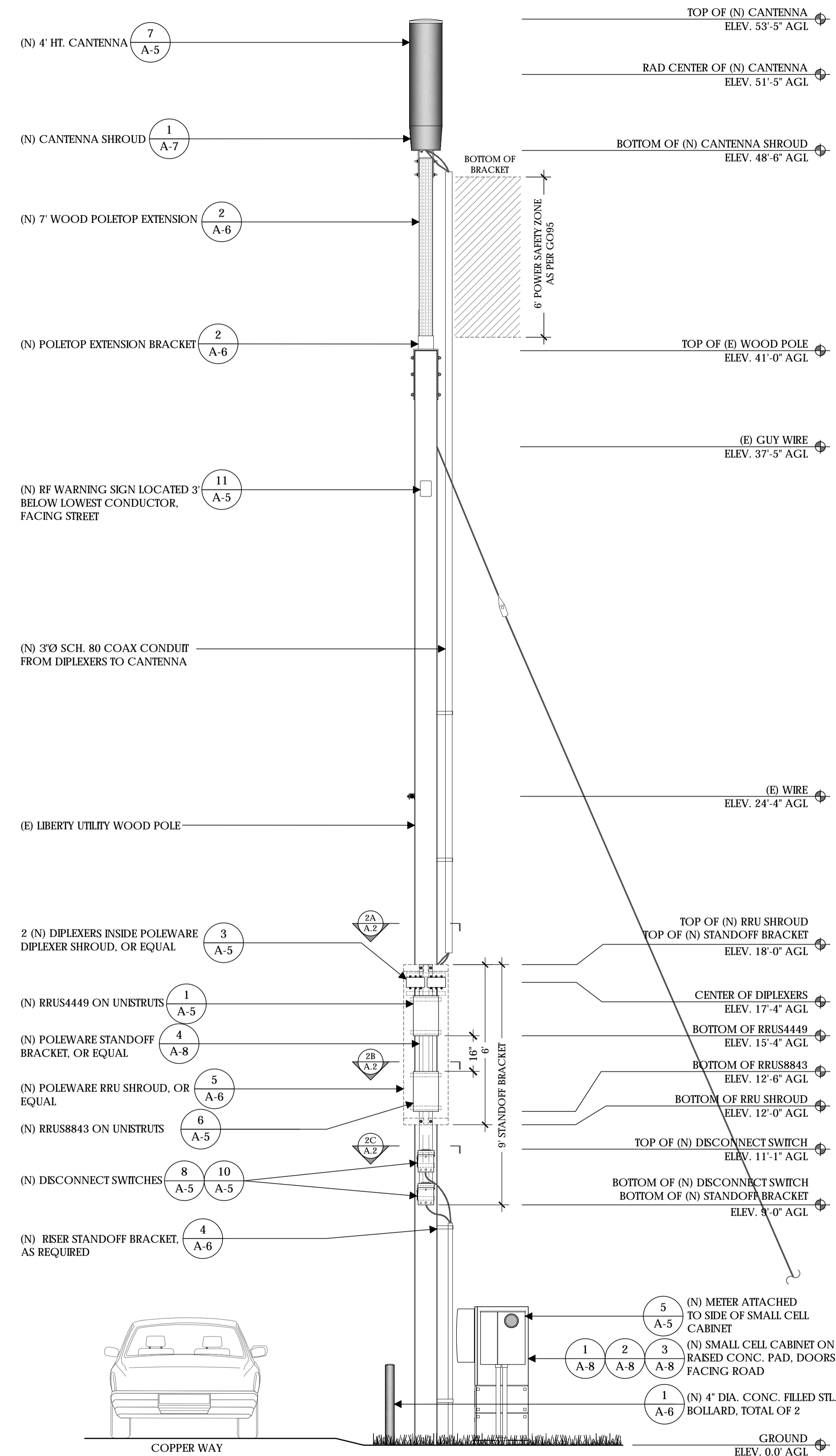
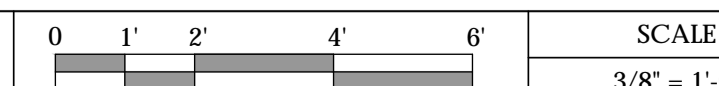
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MAKE READY NOTES

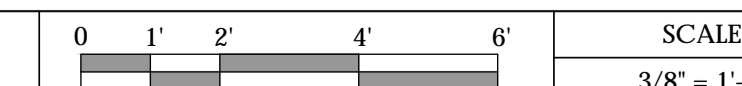
1. ALL LIBERTY SITE SPECIFIC MAKE READY IMPROVEMENTS TO BE COMPLETED PRIOR TO VERIZON INSTALLATION.
2. ALL RISER LOCATIONS SHOWN ON PLANS TO BE VERIFIED BY LIBERTY PRIOR TO INSTALLATION.
3. ANY CONFLICTS WITH PROPER RISER INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF VZW PRIOR TO CONSTRUCTION.



SOUTHWEST ELEVATION - EXISTING



SOUTHWEST ELEVATION - PROPOSED



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
Lodi, CA 95240

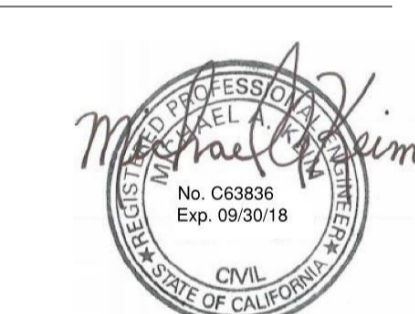
Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

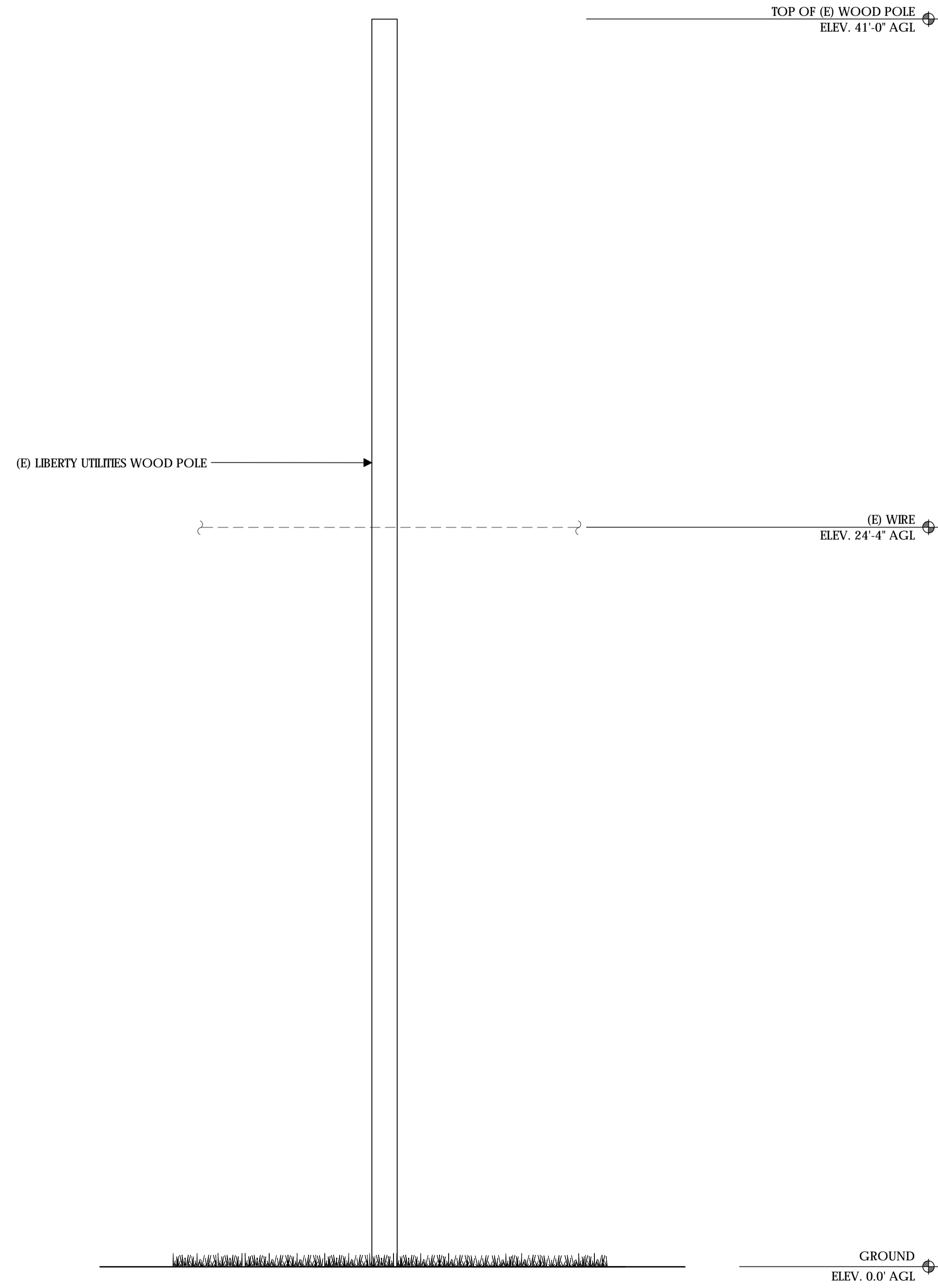
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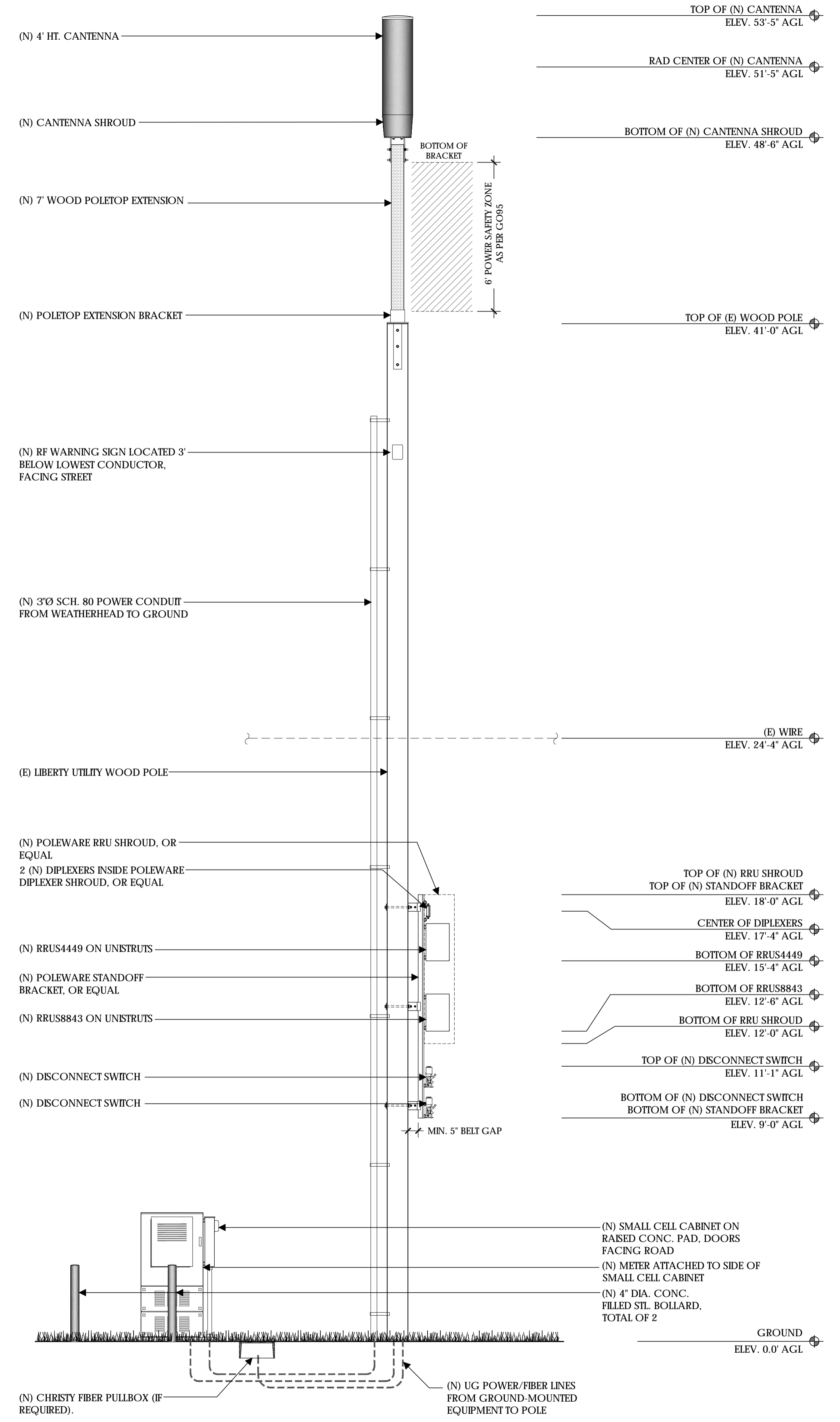
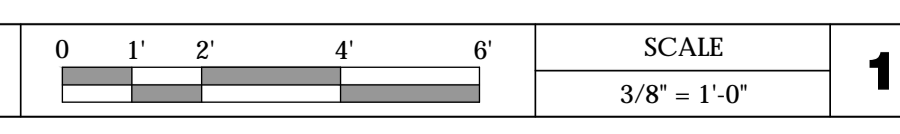
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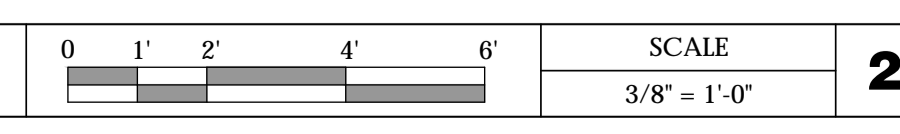
- NOTES:**
- (N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 1:30 QUADRANT.
 - PROVIDE POLE STEPS AS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE.
 - VALSPAR 'DEEP EARTH' COLOR
 - COORDINATE MAKE-READY WORK WITH LIBERTY. WORK PROVIDED BY OTHERS



NORTHWEST ELEVATION - EXISTING



NORTHWEST ELEVATION - PROPOSED



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridian.management

Project Architect:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World
222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

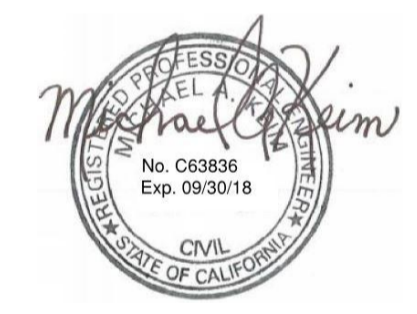
Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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02	04/03/18	Constr. Dwgs 100%

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Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

Sheet Title:

A.4

Sheet No.:

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UNIT: ERICSSON RRUS4449 B5 B13 W/
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

LENGTH: 9.4 INCHES

WEIGHT: 70 LBS (EXCLUDES MOUNTING HARDWARE)



UNIT: ERICSSON RRUS8843 W/
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

DEPTH: 11.3 INCHES

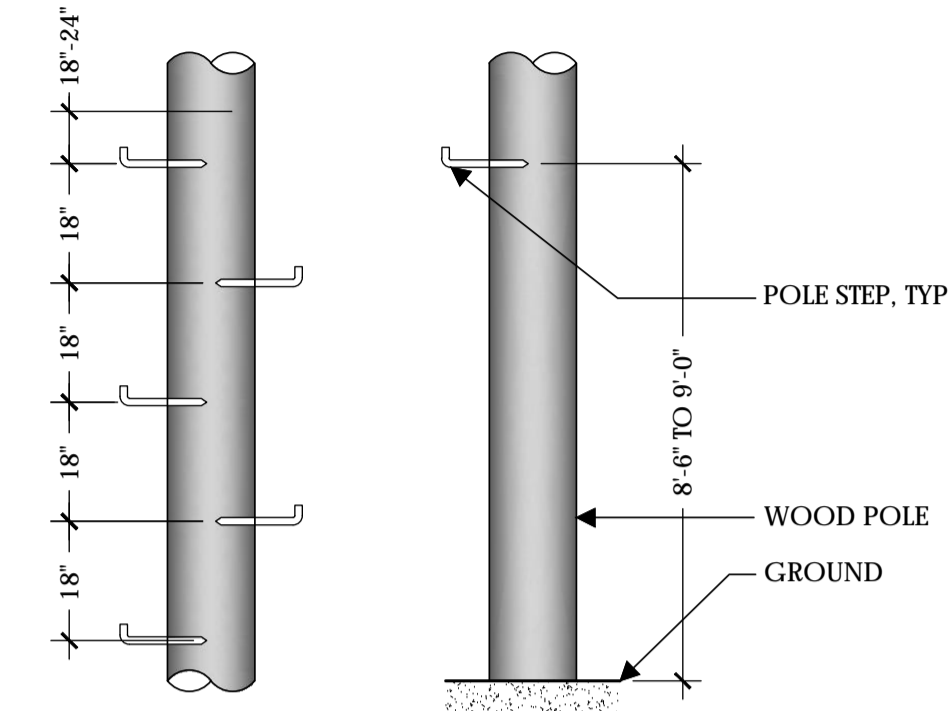
WEIGHT: 75 LBS



STEP:
WEIGHT PER 100:
MANUFACTURER:
MODEL #:
DESCRIPTION:

POLE 1/2 X 10 INCH GALVANIZED
99 LBS
AERIAL SERVICE COMPANY, INC.
1-800-256-5186
http://www.linemen-tools.com/
J1118

POLE STEPS ARE USED ON WOOD POLES WHERE FREQUENT ACCESS TO POLE MOUNTED EQUIPMENT IS REQUIRED. FLAT DRIVING SURFACE AND SHARP POINT EASE INSTALLATION. FETER DRIVE THREAD PERMITS REMOVAL WITH A WRENCH. HOT-DIPPED GALVANIZED FOR CORROSION RESISTANCE. NOTCHED MARK ON STEP INDICATES PROPER DRIVING DEPTH.

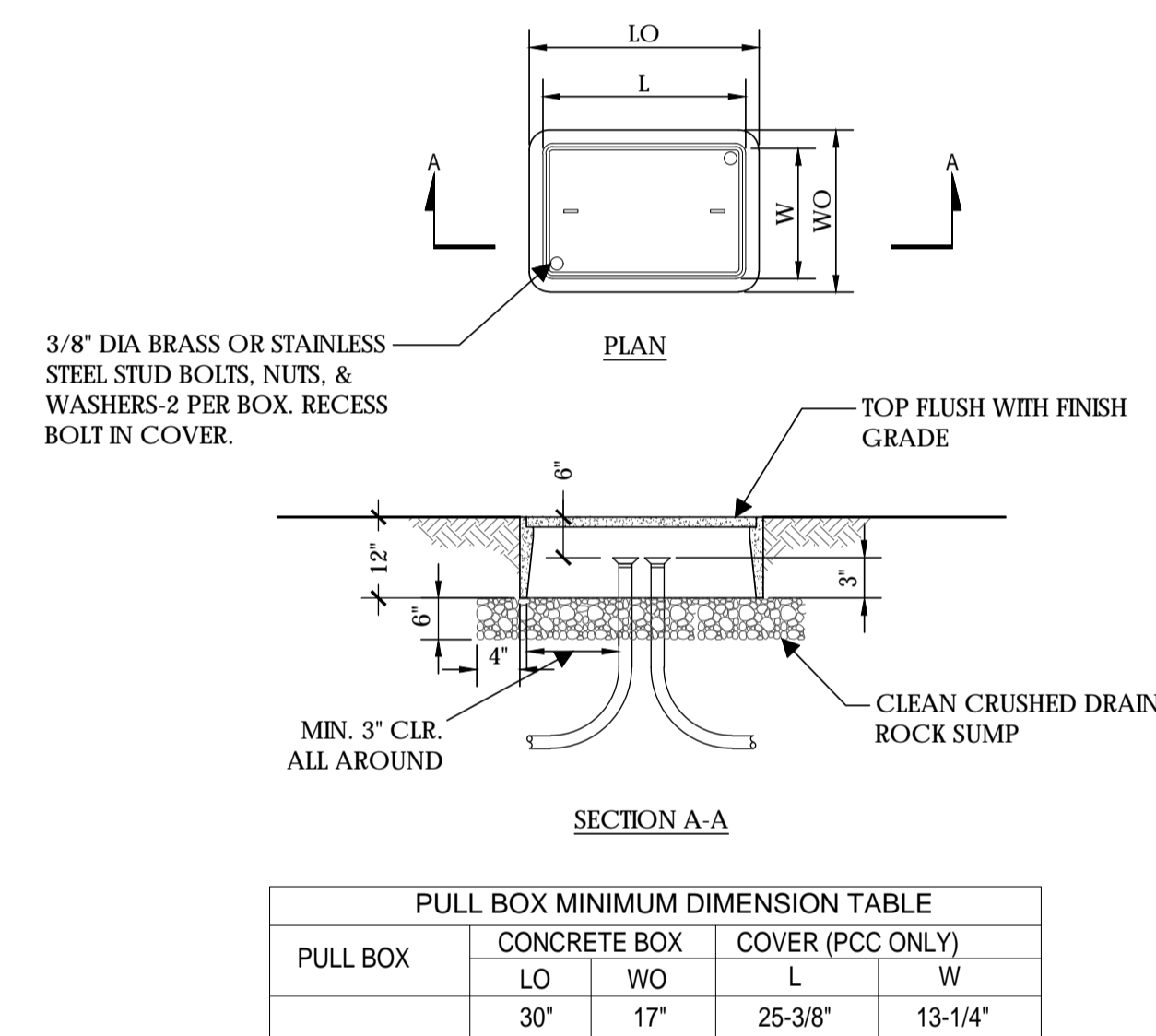


RRUS4449

1 RRUS8843

6 POLE STEPS

9



FIBER TRANSPORT PULL BOX

2 NOT USED

4 CANTENNA

7 DISCONNECT SWITCH

SCALE
NOT TO SCALE 10



HEIGHT: 8.31 INCHES

WIDTH: 2.48 INCHES

DEPTH: 7.0 INCHES

WEIGHT: 4.4 LBS

* OR APPROVED EQUAL

UNIT: 100 AMP METER W/ TEST
BYPASS

HEIGHT: 24 INCHES

WIDTH: 12 INCHES

DEPTH: 4-5/8 INCHES

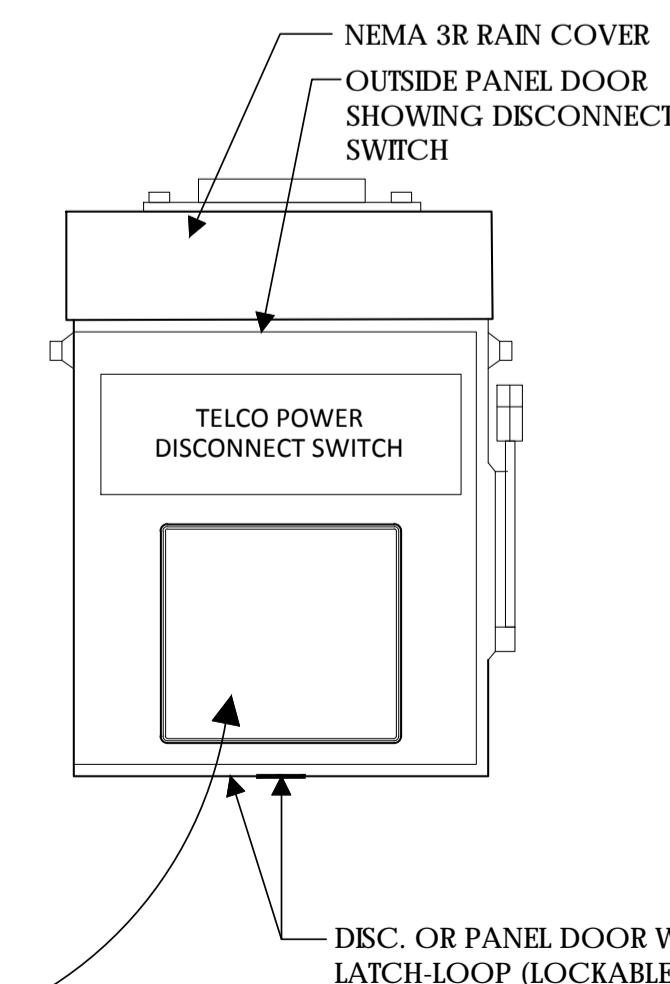


NOTE:
NEW PHENOLIC SIGN ATTACHED
TO EXTERIOR PANEL

- NORMAL SHUT-DOWN PROTOCOLS:**
1. Call 800-264-6620 NOC 24 HRS prior to schedule a shutdown day and time.
 2. Give NOC the Node number _____.
 3. On scheduled day of shutdown, pull the disconnect handle to the "OFF" position.
 4. Call NOC when work is completed.

- EMERGENCY SHUT-DOWN PROTOCOLS:**
1. Call 800-264-6620 NOC immediately.
 2. Give NOC the Node number _____.
 3. Pull the disconnect handle to the "OFF" position.
 4. Call NOC when work is completed.

CONTRACTOR NOTE:
SITE ID WILL BE SITE ID, MARKET ID,
SITE #, AND SITE NAME



ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE 3' BELOW ANTENNA

SIGN PLACEMENT:
AFFIX TO THE STRUCTURE 3'-4' BELOW THE COMMERCIAL RF ANTENNA(S) OR 3' BELOW LOWEST POWER WIRE

SIGN COLOR: YELLOW

CONTRACTOR NOTE:
SITE ID WILL BE SITE ID, MARKET ID, SITE #, AND SITE NAME

DIPLEXER

3 METER

5 DISCONNECT SIGNAGE

8 RF WARNING SIGNAGE

11

verizon

Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Architect/Engineer, to alter this document.

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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT
DETAILS

Sheet Title:

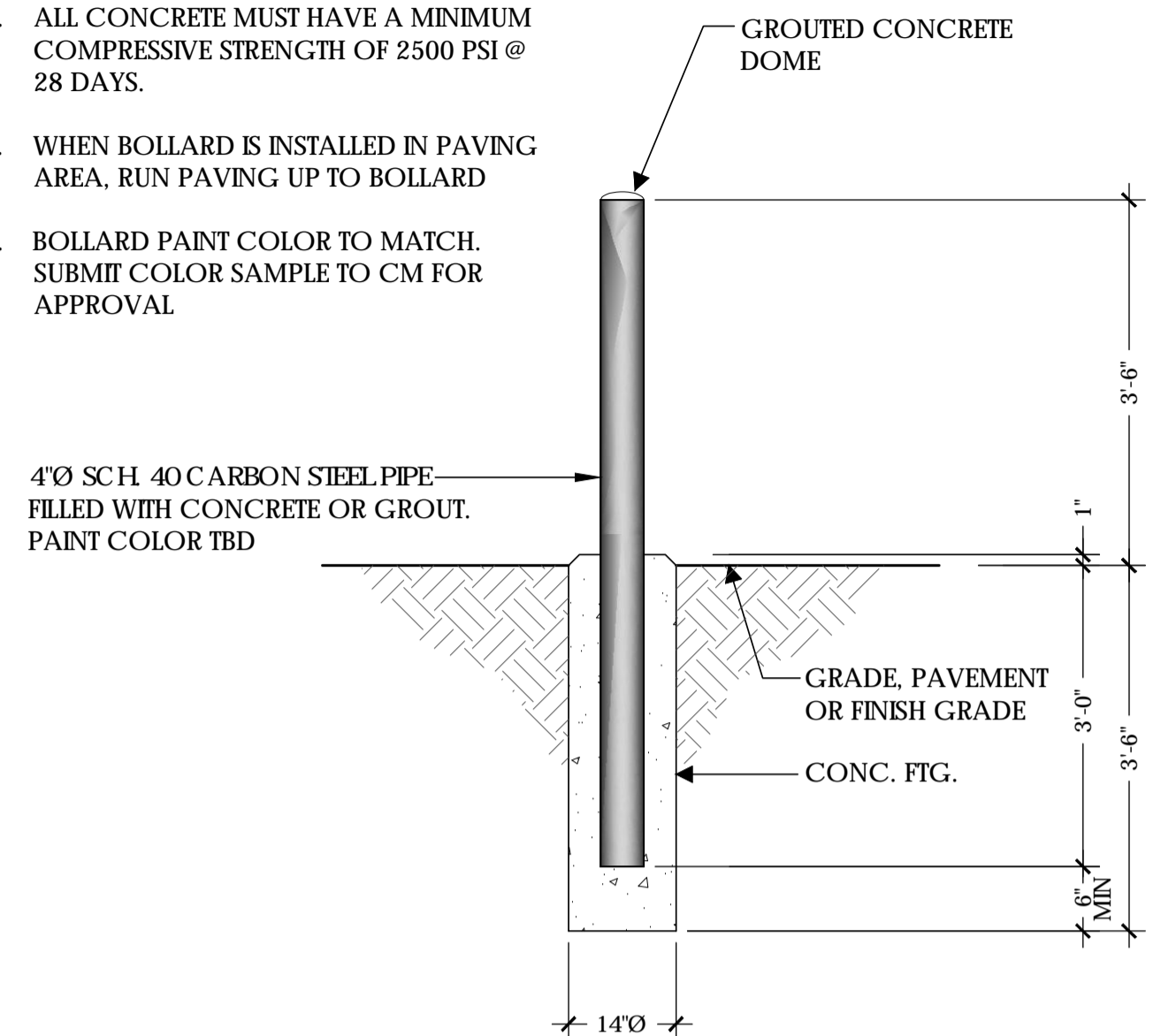
A.5

Sheet No.:

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NOTES:

1. SPACE BOLLARDS AS SHOWN ON PLAN OR AS DIRECTED BY CONSTRUCTION MANAGER.
2. ALL CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI @ 28 DAYS.
3. WHEN BOLLARD IS INSTALLED IN PAVING AREA, RUN PAVING UP TO BOLLARD
4. BOLLARD PAINT COLOR TO MATCH. SUBMIT COLOR SAMPLE TO CM FOR APPROVAL.



4" DIA. STEEL BOLLARD

SCALE
NOT TO SCALE

1

NOT USED



SINGLE CONDUIT STANDOFF

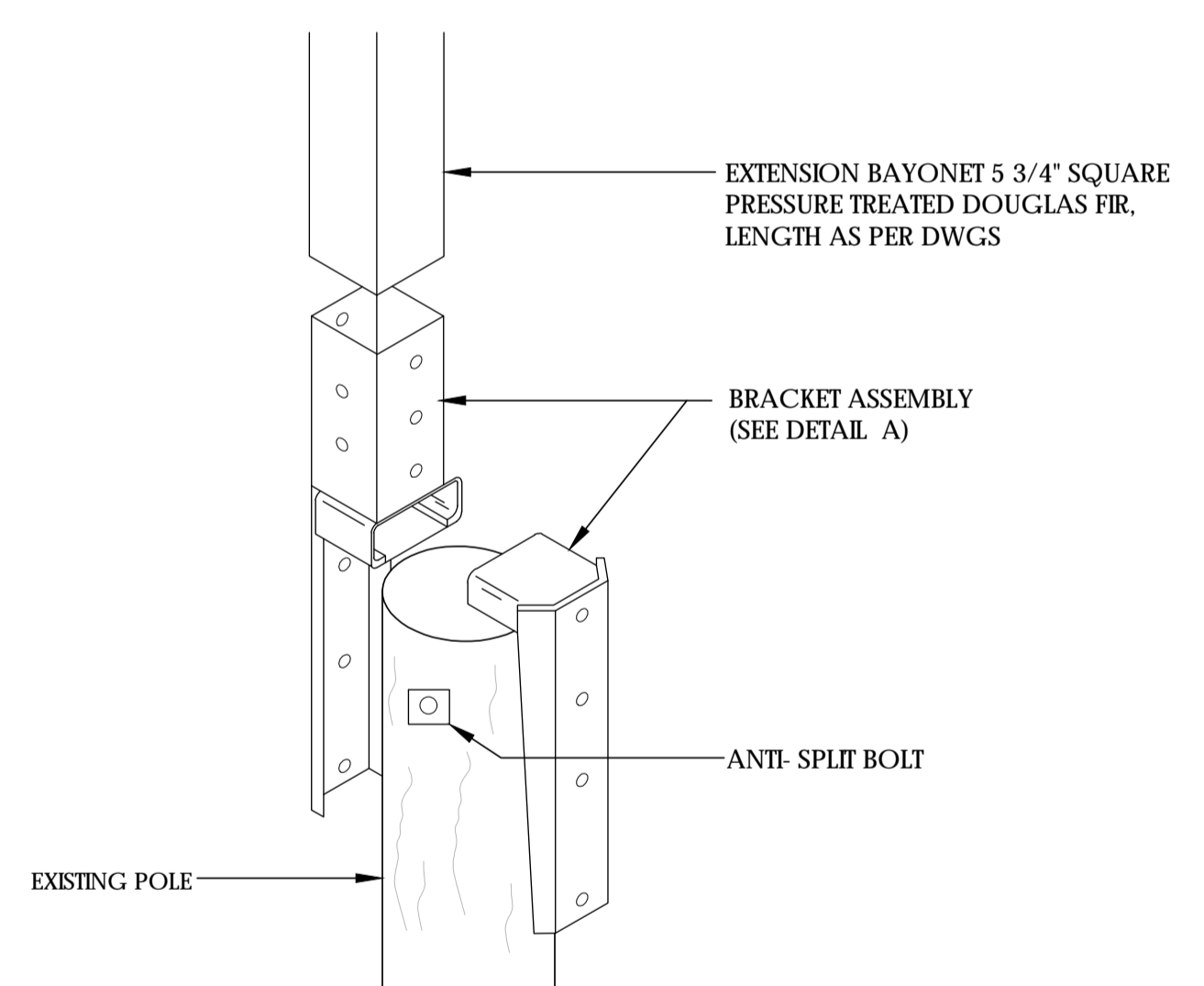


TRIPLE CONDUIT STANDOFF

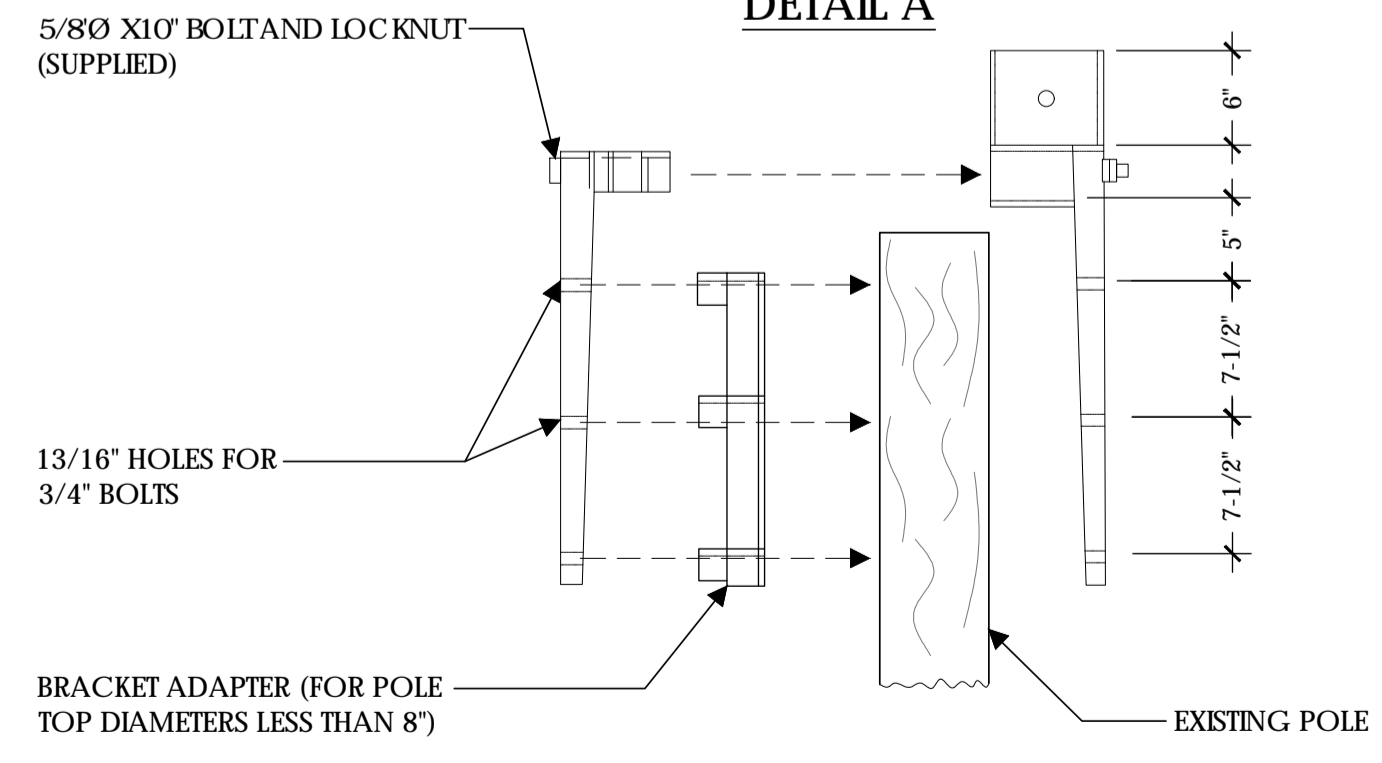
* OR EQUAL

3 RISER STANDOFF BRACKETS

4



DETAIL A



DETAIL B

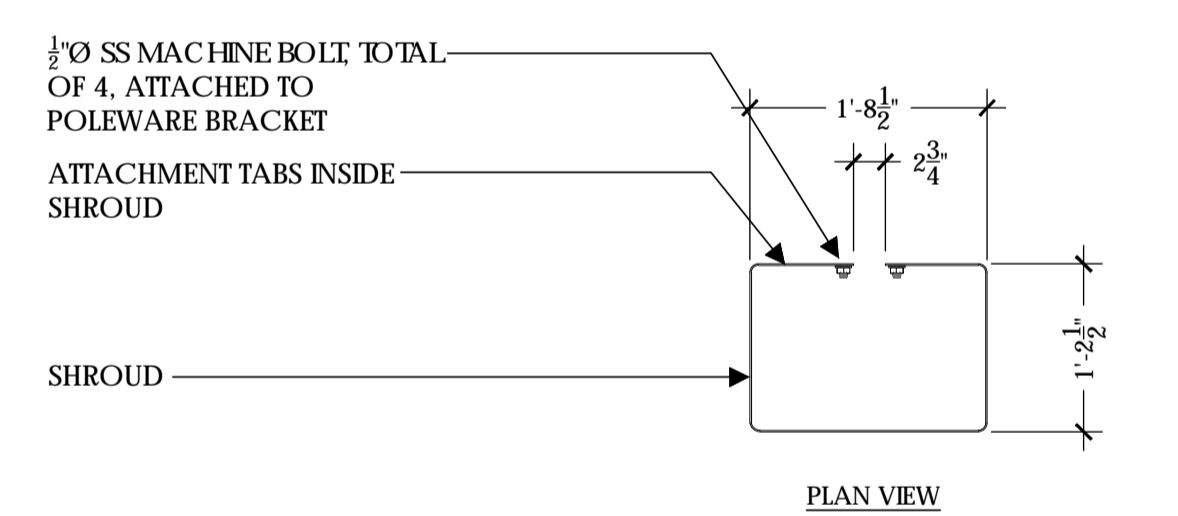
NOTE:
(N) BRACKET ASSEMBLY TO BE PROVIDED BY UTILITY COMPANY AND PAINT TO MATCH

POLETOP WOOD EXTENSION AND BRACKET

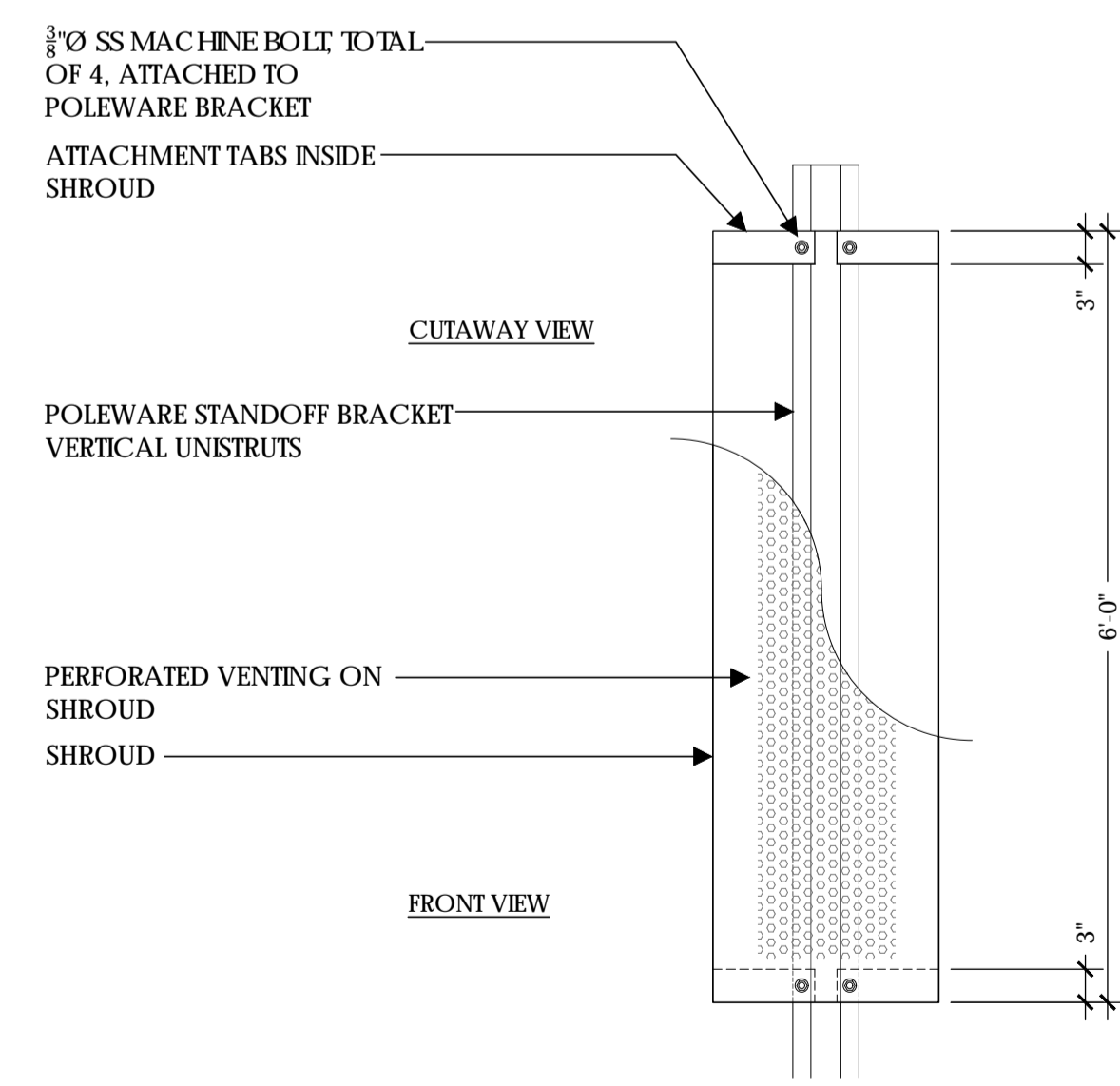
SCALE
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2

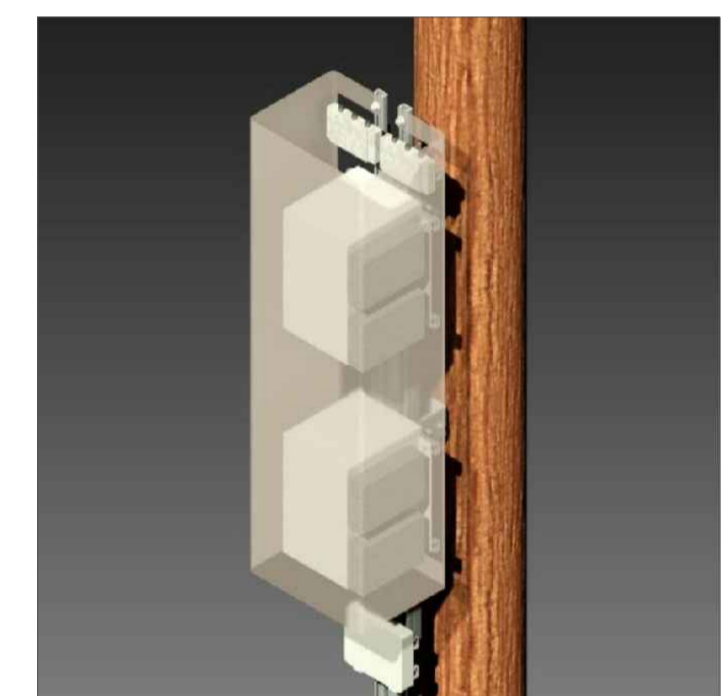
RRU SHROUD



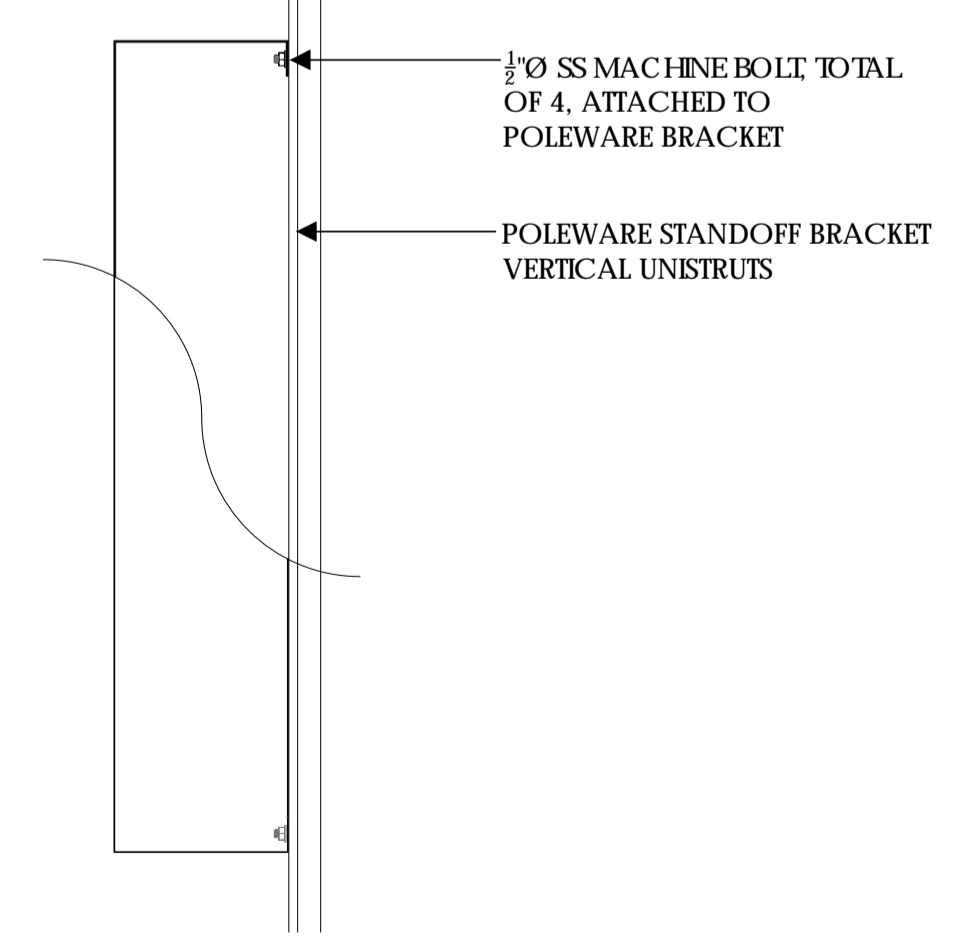
PLAN VIEW



FRONT ELEVATION



ISO



SIDE ELEVATION

- NOTE:
1. RRU SHROUD MODEL #PW-RRS-072L-TAH-SP AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
 2. ALL COMPONENTS TO BE SHOP PRIMED PAINTED
 3. UNISTRUT COMPONENTS TO BE MFG. BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
 4. CUSTOMER TO SPECIFY SHROUD HEIGHT AT TIME OF ORDERING.



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Walnut Creek, CA 94598

Client:



Project Architect:



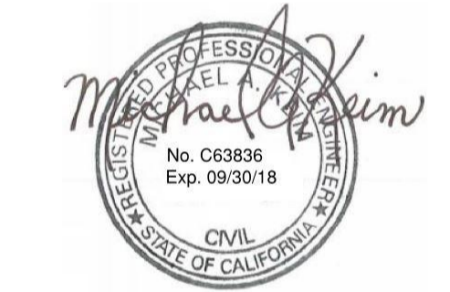
Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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Rev.	Date	Description
01	03/27/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT DETAILS

Sheet Title:

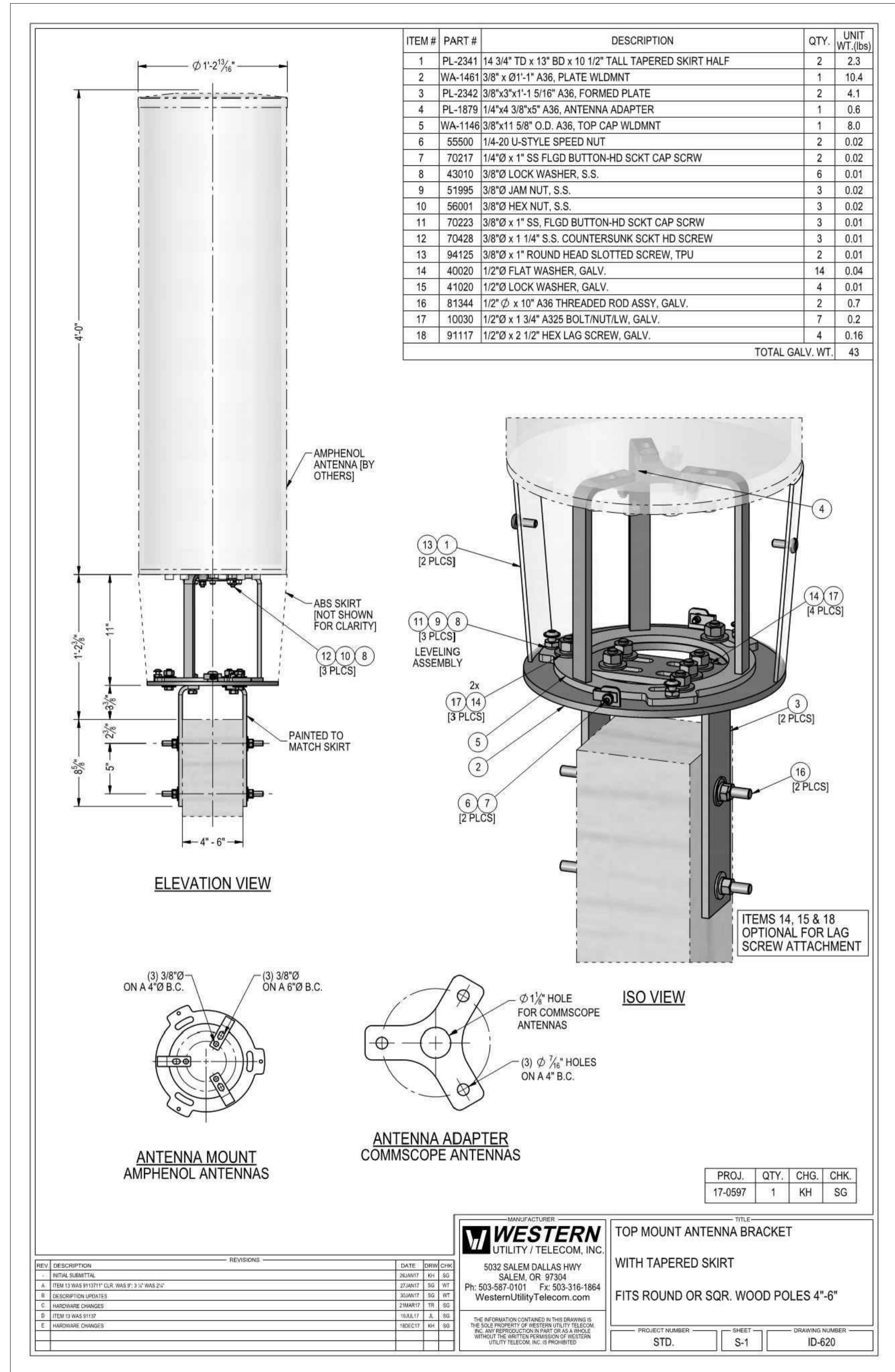
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Sheet No.:

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SCALE
NOT TO SCALE

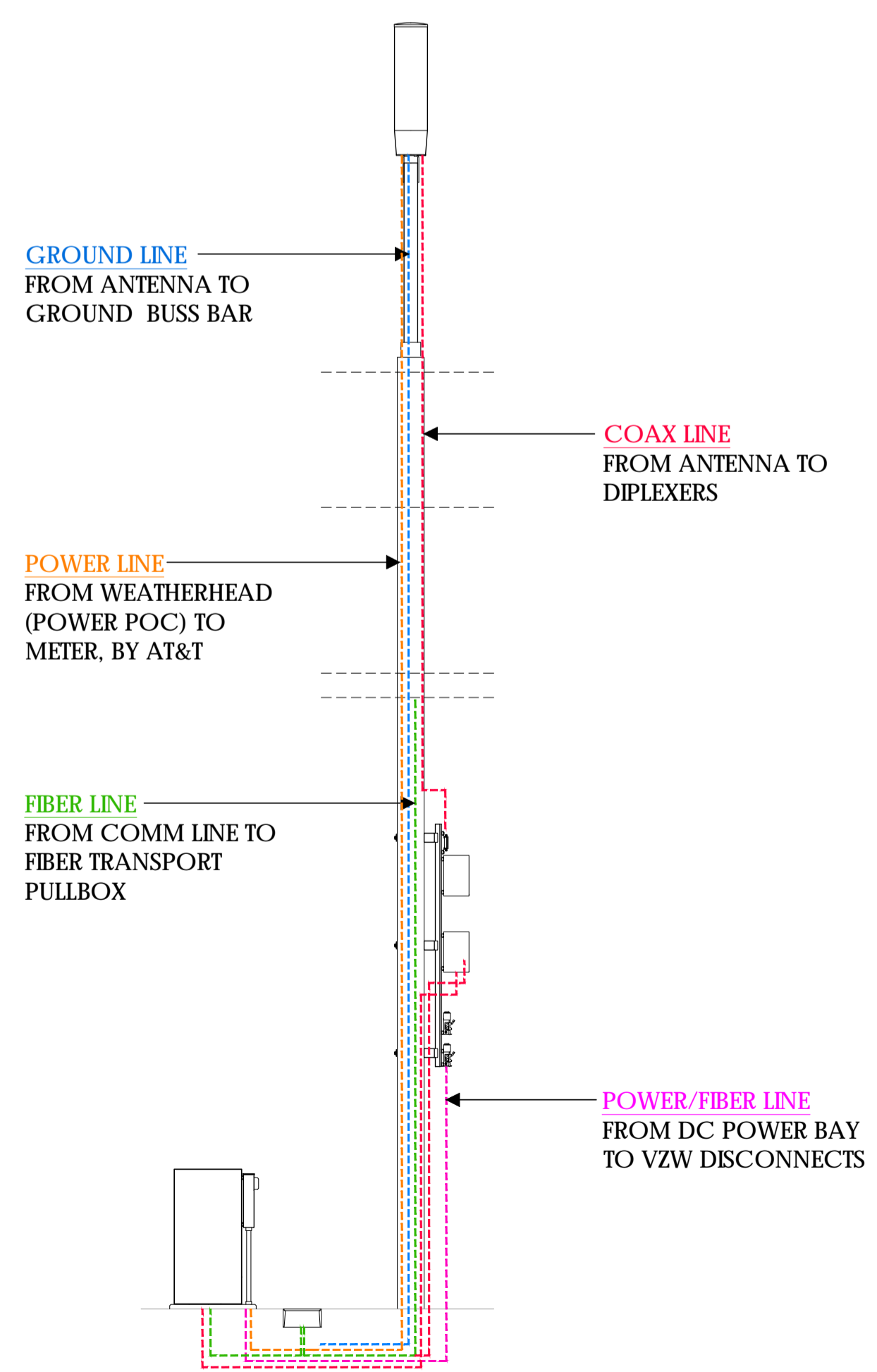
5



CANTENNA SHROUD AND BRACKET

1

PLUMBING DIAGRAM



CONDUIT RISER DIAGRAM

2



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2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



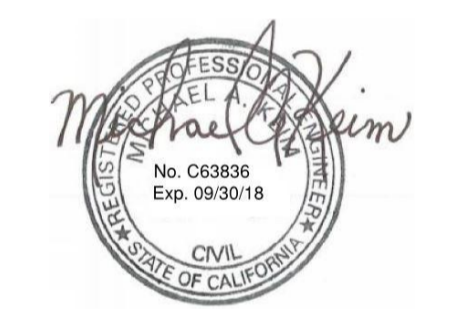
Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT DETAILS
PLUMBING DIAGRAM

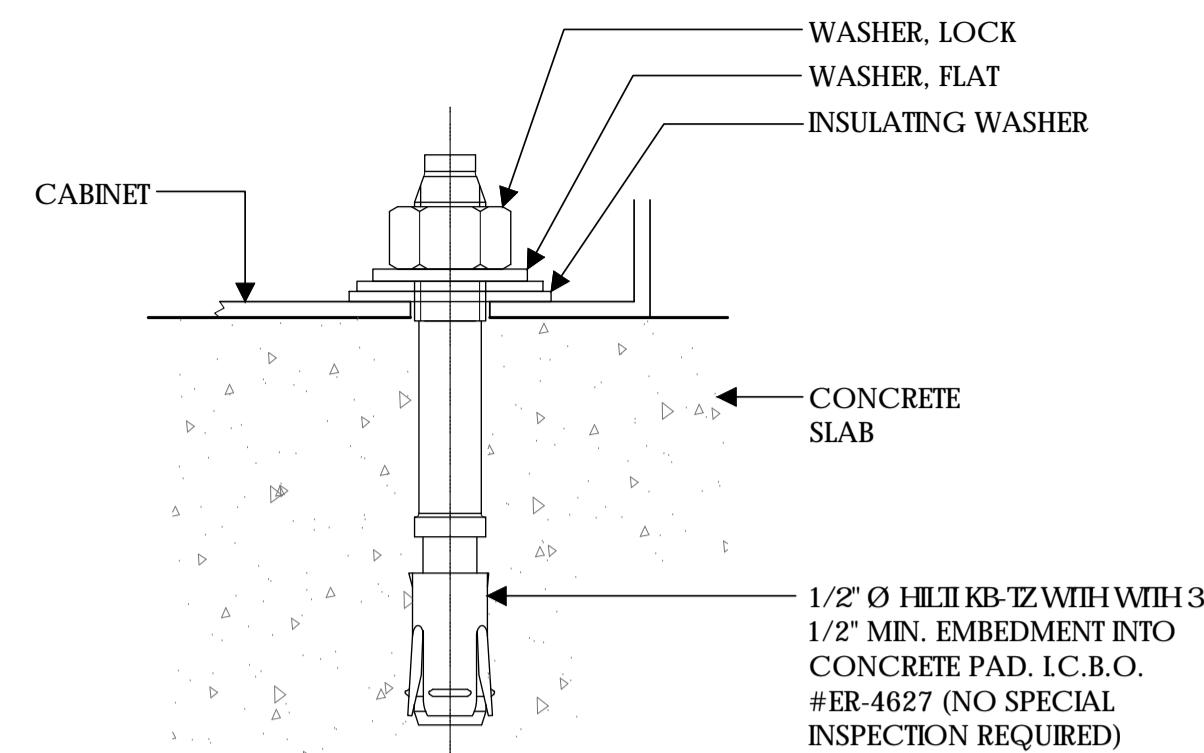
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Sheet No.:

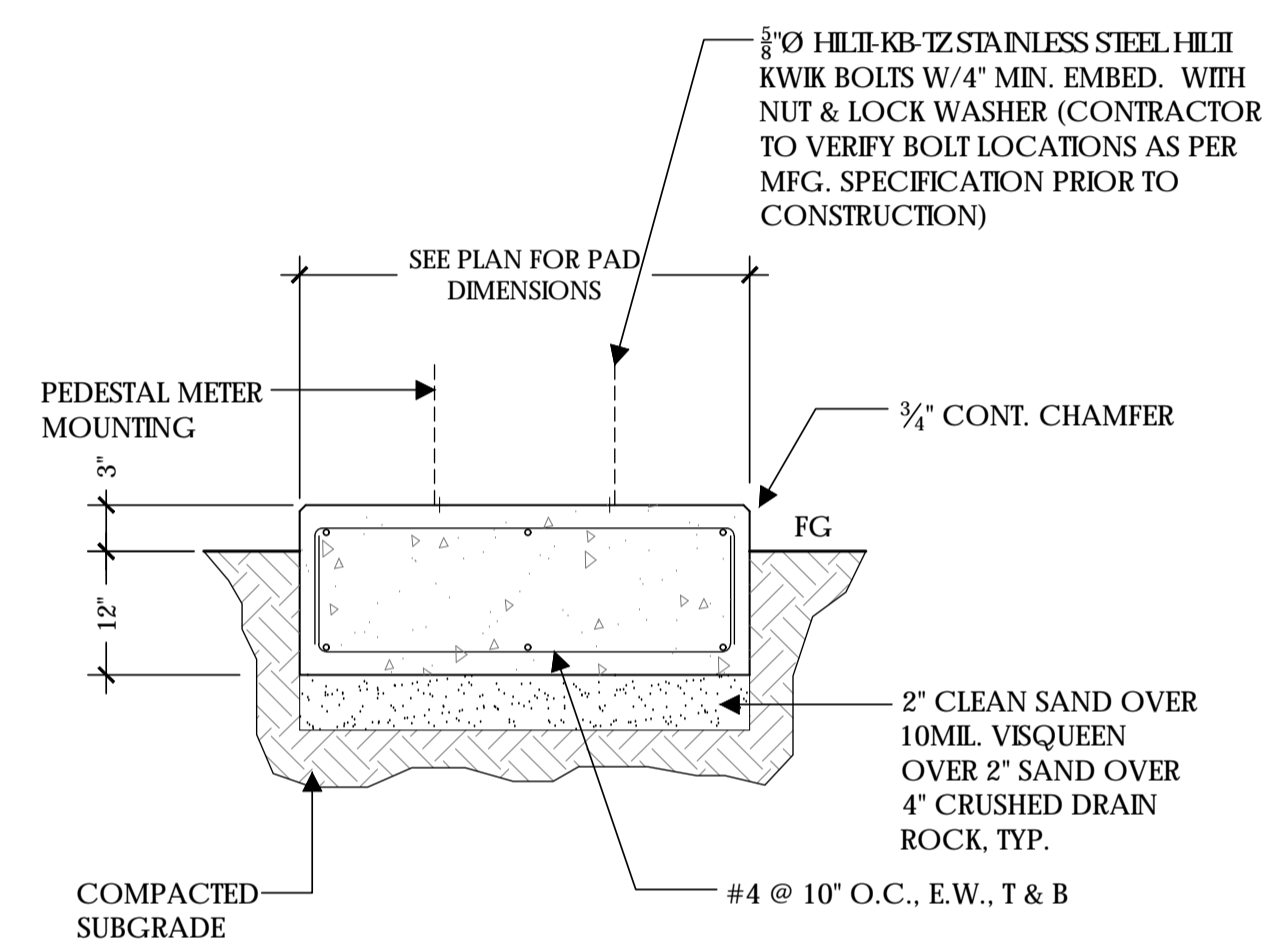
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3



CABINET ANCHORAGE

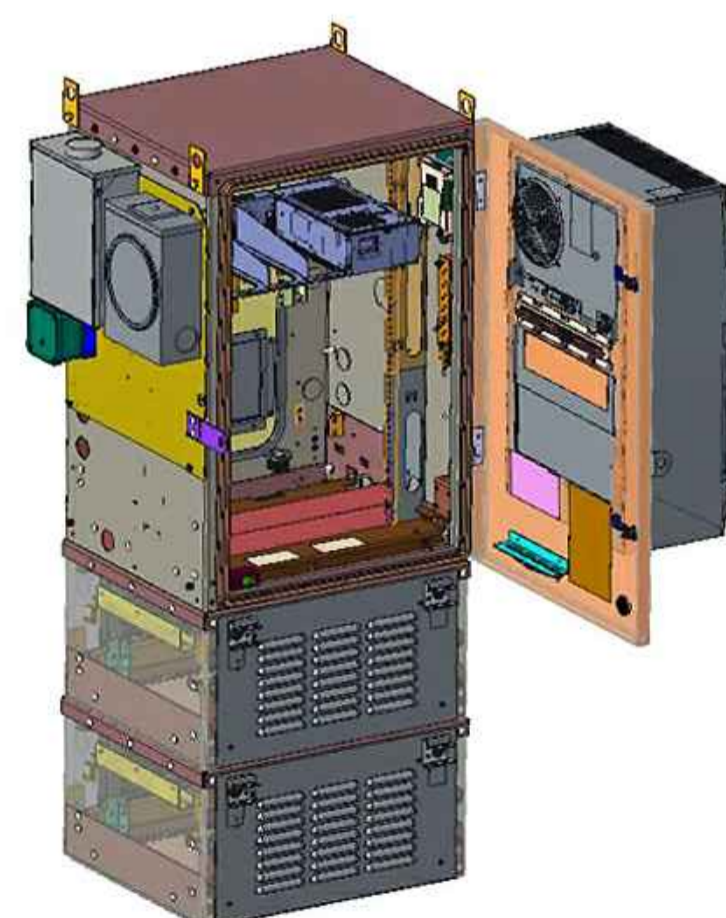
SCALE
N.T.S. **1**



CONCRETE PAD

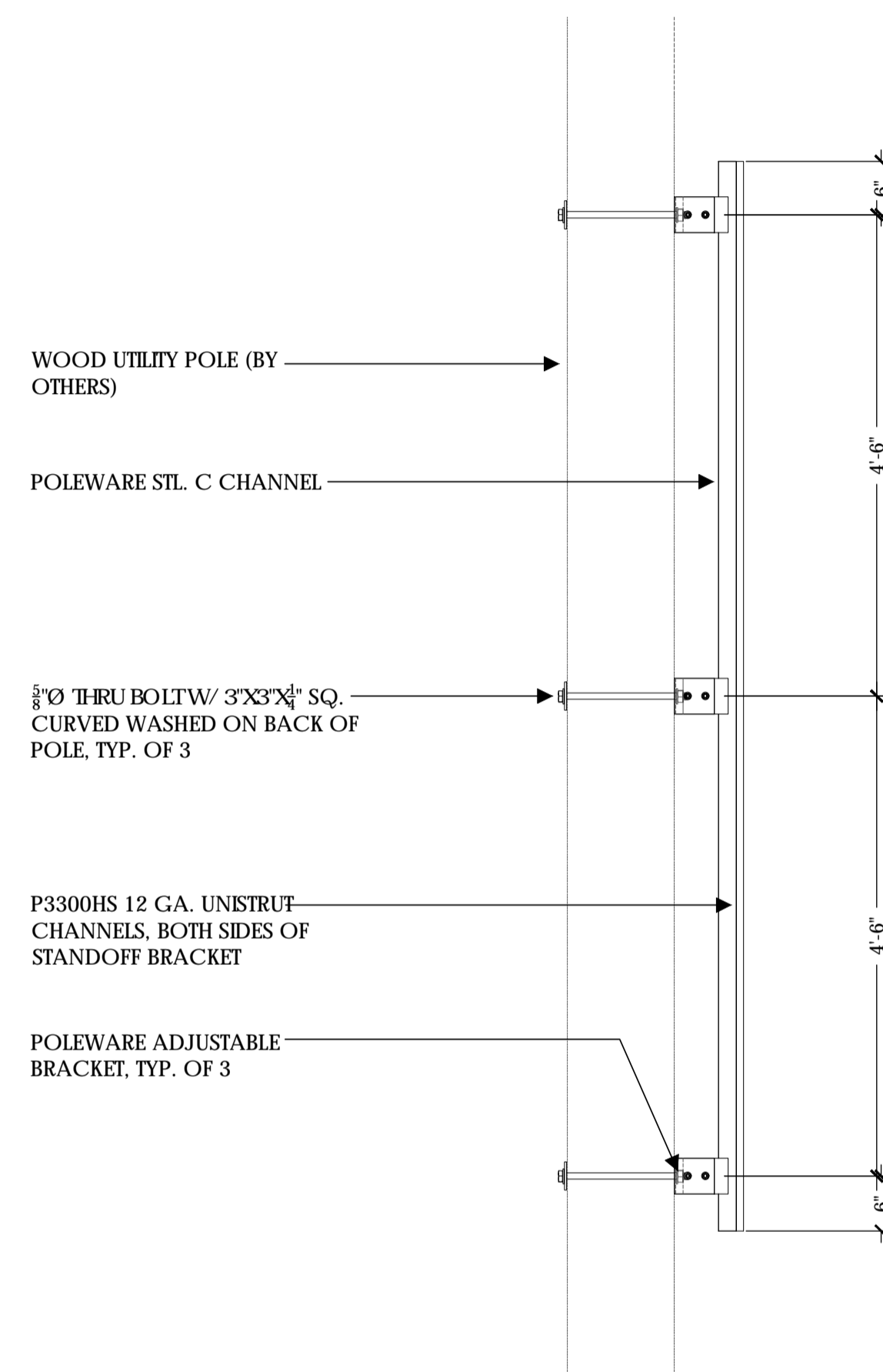
SCALE
NOT TO SCALE **2**

- UNIT: SMALL CELL CABINET
- HEIGHT: 61 INCHES
- WIDTH: 24 INCHES
- DEEP: 30 INCHES
- WEIGHT (FULLY LOADED): 300 LBS

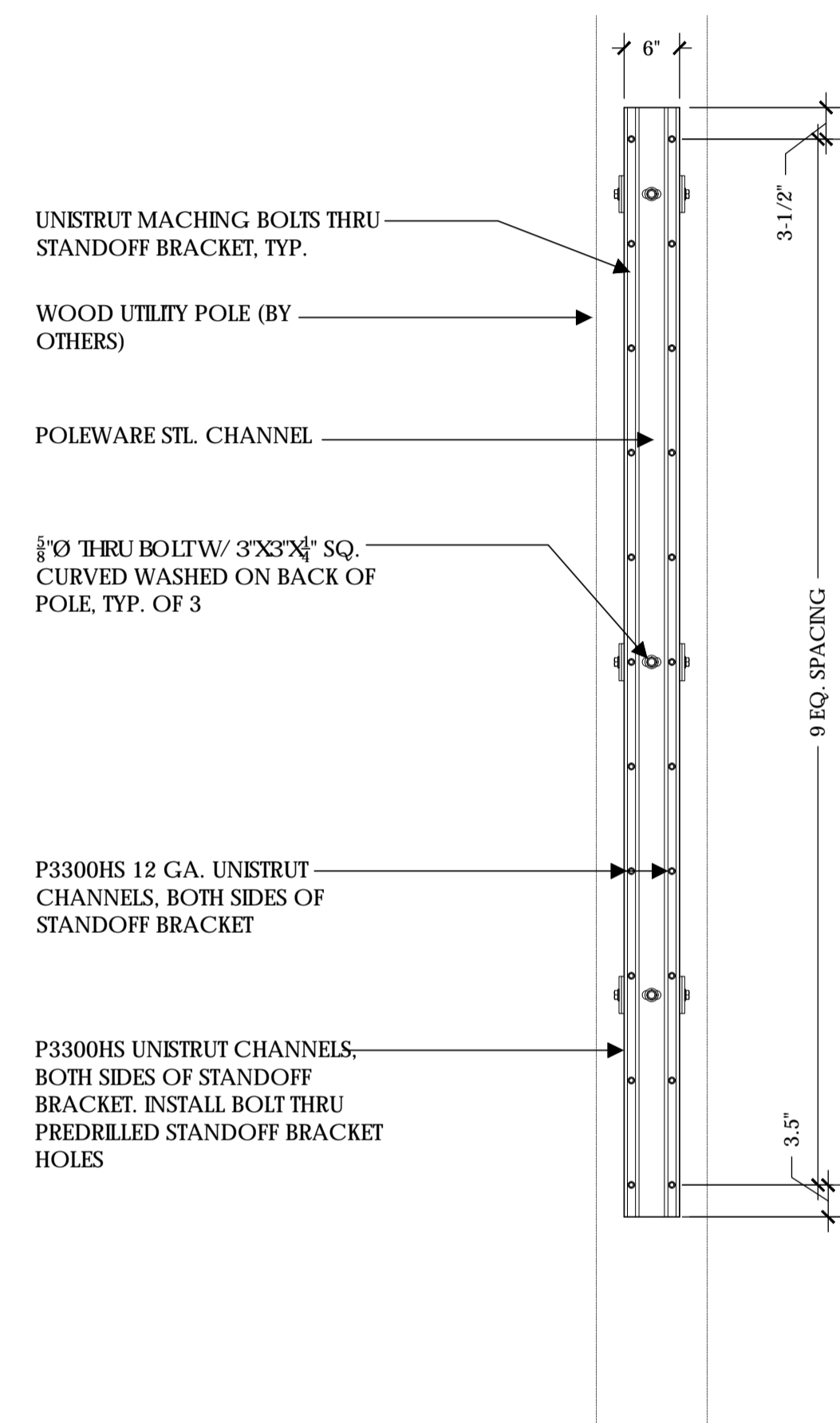


SMALL CELL CABINET

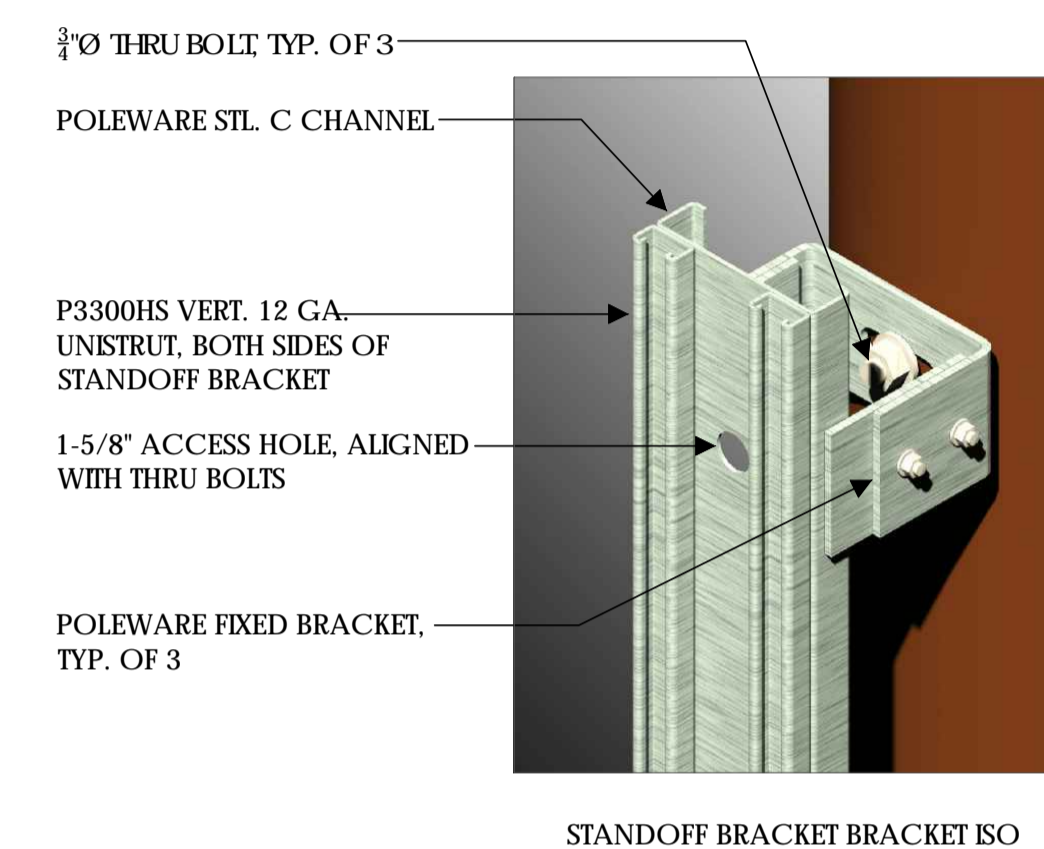
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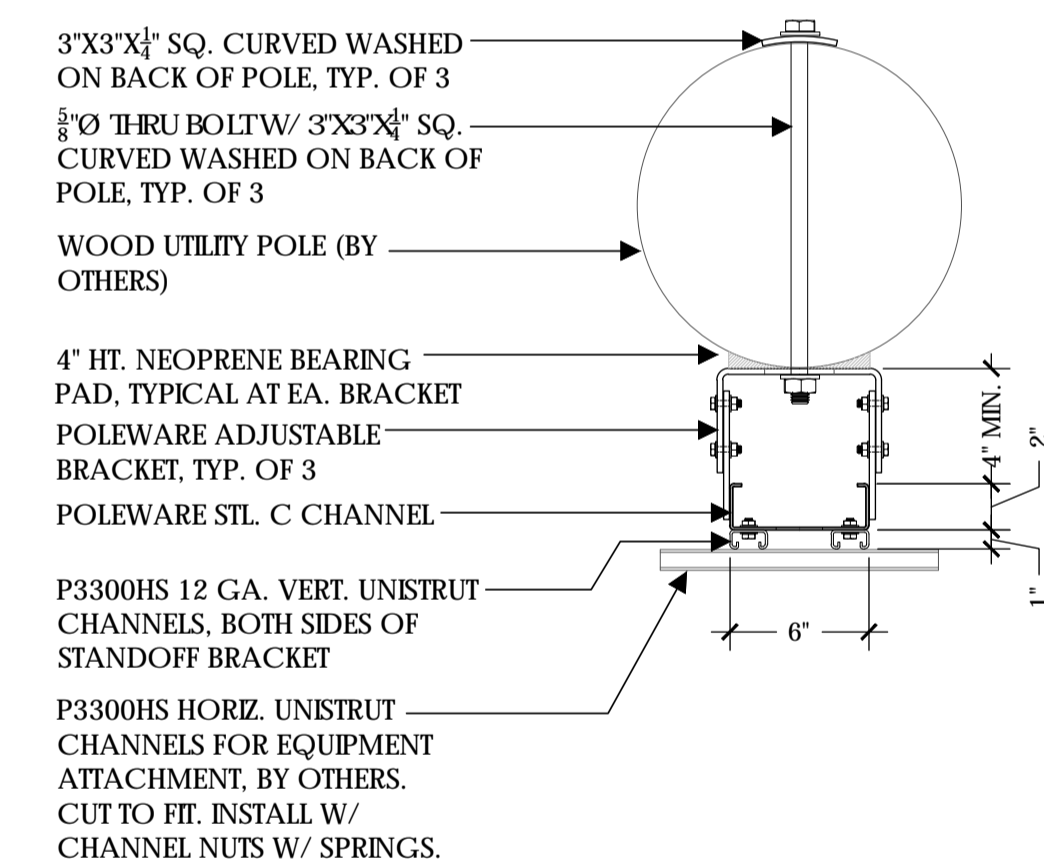
STANDOFF BRACKET SIDE ELEVATION



STANDOFF BRACKET FRONT ELEVATION



STANDOFF BRACKET BRACKET ISO



STANDOFF BRACKET PLAN

- NOTE:**
- STANDOFF BRACKET MODEL #PW-SOB-09L-ADJ-SP AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
 - ALL COMPONENTS TO BE SHOP PRIMED PAINTED
 - UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
 - HORIZONTAL UNISTRUTS (P3300HS) FOR EQUIPMENT INSTALLATION NOT INCLUDED
 - ADJUSTABLE BRACKETS FOR SLANTED POLES AVAILABLE BY SPECIAL ORDER

STANDOFF BRACKET

SCALE
NOT TO SCALE **4**



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Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

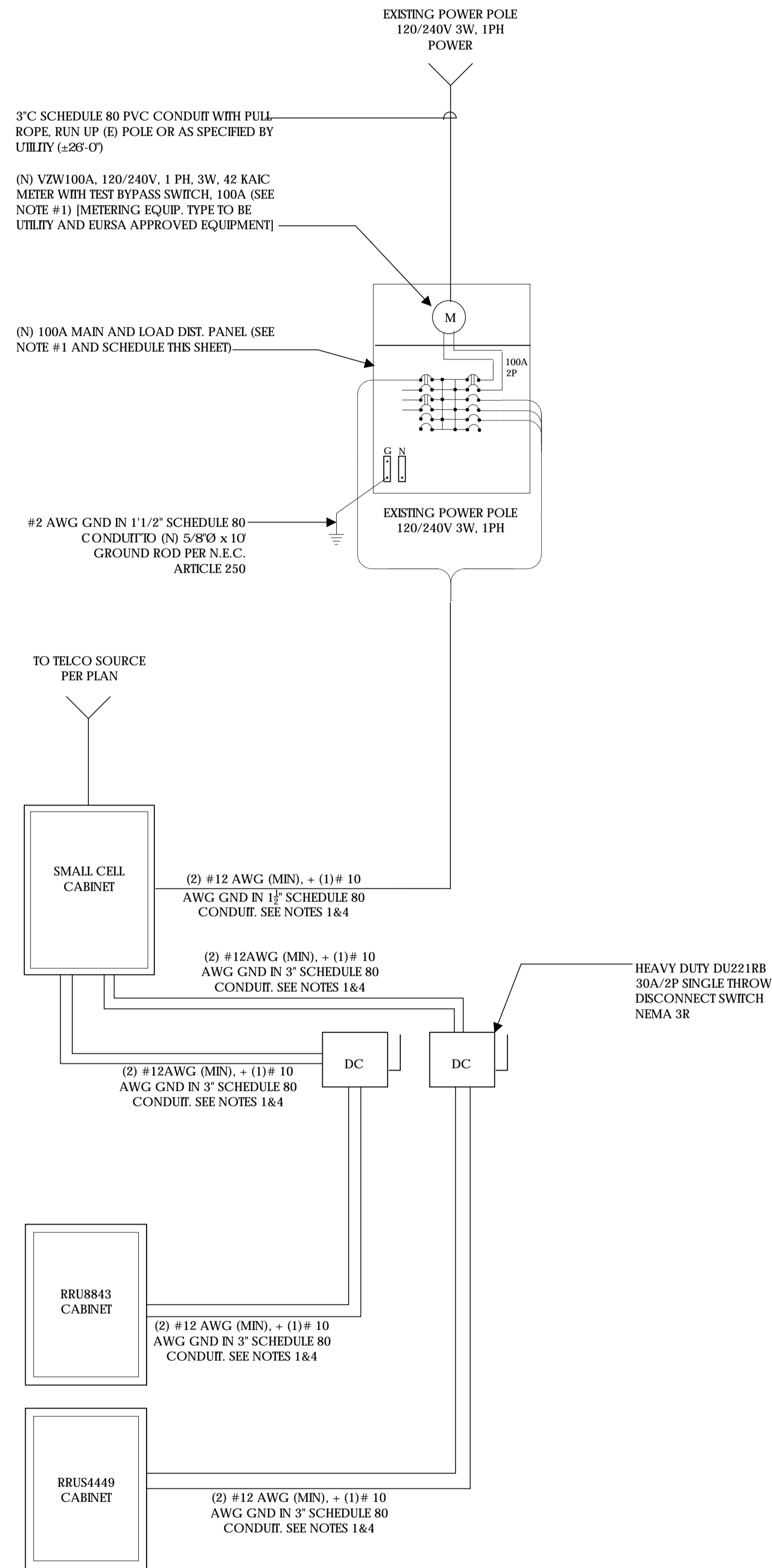
EQUIPMENT DETAILS

Sheet Title:

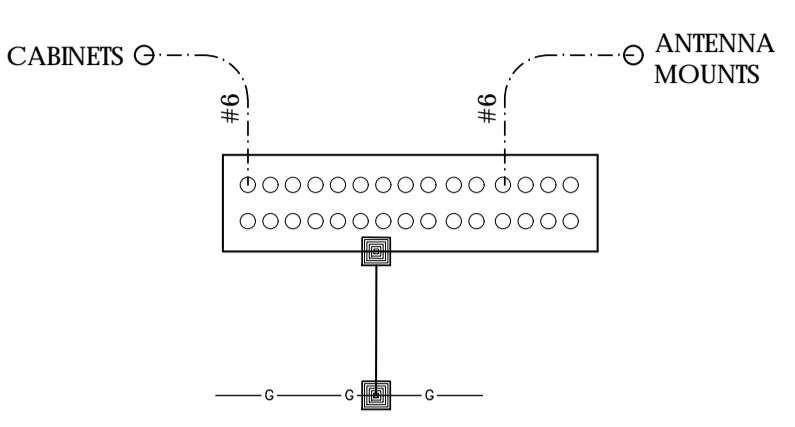
A.8

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SINGLE LINE DIAGRAM



BUSS DIAGRAM

LOAD CALCULATIONS - VERIZON WIRELESS

EXISTING LOAD:	0 AMPS
NEW LOAD:	17.9 AMPS MAX.
NEW TOTAL LOAD:	17.9 AMPS MAX.

POWER AND TELCO DESIGN IS BASED ON INITIAL SITE VISIT.

CONTRACTOR SHALL OBTAIN CURRENT UTILITY COORDINATOR PLANS PRIOR TO START OF CONSTRUCTION.

AVAILABLE FAULT CURRENT PER UTILITY.

NOTE: CONTRACTOR TO CHECK WITH UTILITY TO ENSURE ELEC. METER IS BRACED FOR ACTUAL FAULT CURRENT.

POWER AND TELCO NOTES:

- POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
- CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
- CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

GENERAL ELECTRICAL NOTES:

- PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
- THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE 24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK, ERECT & MAINTAIN APPROVED & SUITABLE BARRIERS, PROTECTIVE DEVICES & WARNING SIGNS, BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS.
- COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
- ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.
- FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY, VERIFY LOCATION FOR FACILITIES & DETAILS WITH POWER UTILITY, IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.
- ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "THWN" OR "TWN".
- PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.
- UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, S-DUAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS. SWITCHES AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A 5 OHM OR LESS GROUNDING PATH. ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.

NOTES:

- SUBCONTRACTOR SHALL PROVIDE DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/UTILITY CABINET.
- ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
- MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



Verizon Wireless
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Walnut Creek, CA 94598

Client:

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridian.management

Project Architect:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World
222 W. LOCKEFORD STREET
SUITE 9
Lodi, CA 95240

Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 060**
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

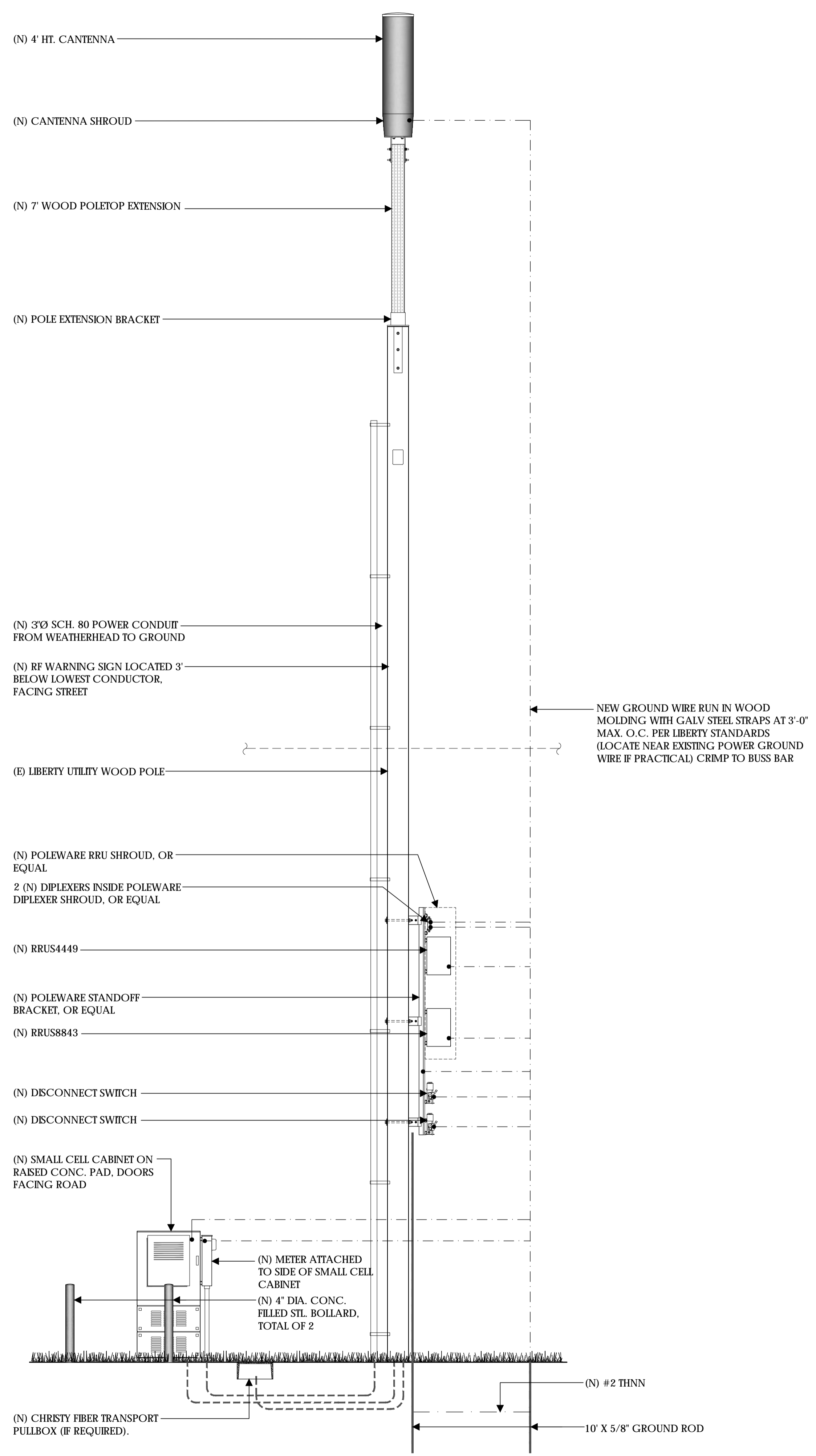
Designed By: JG Checked: RB

SINGLE LINE DIAGRAM
BUSSE DIAGRAM
PANEL SCHEDULE

Sheet Title:

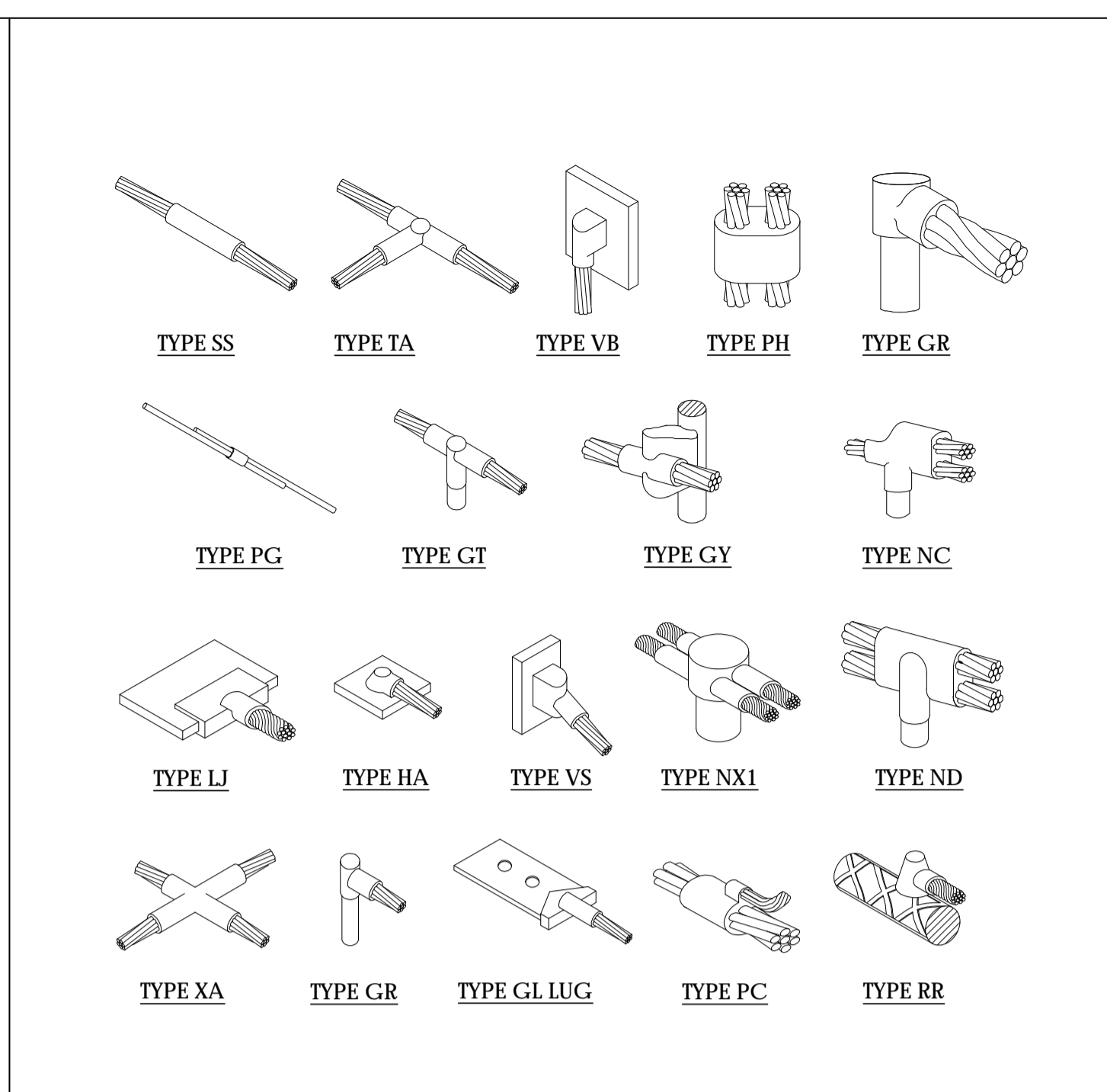
E.1

Sheet No.:

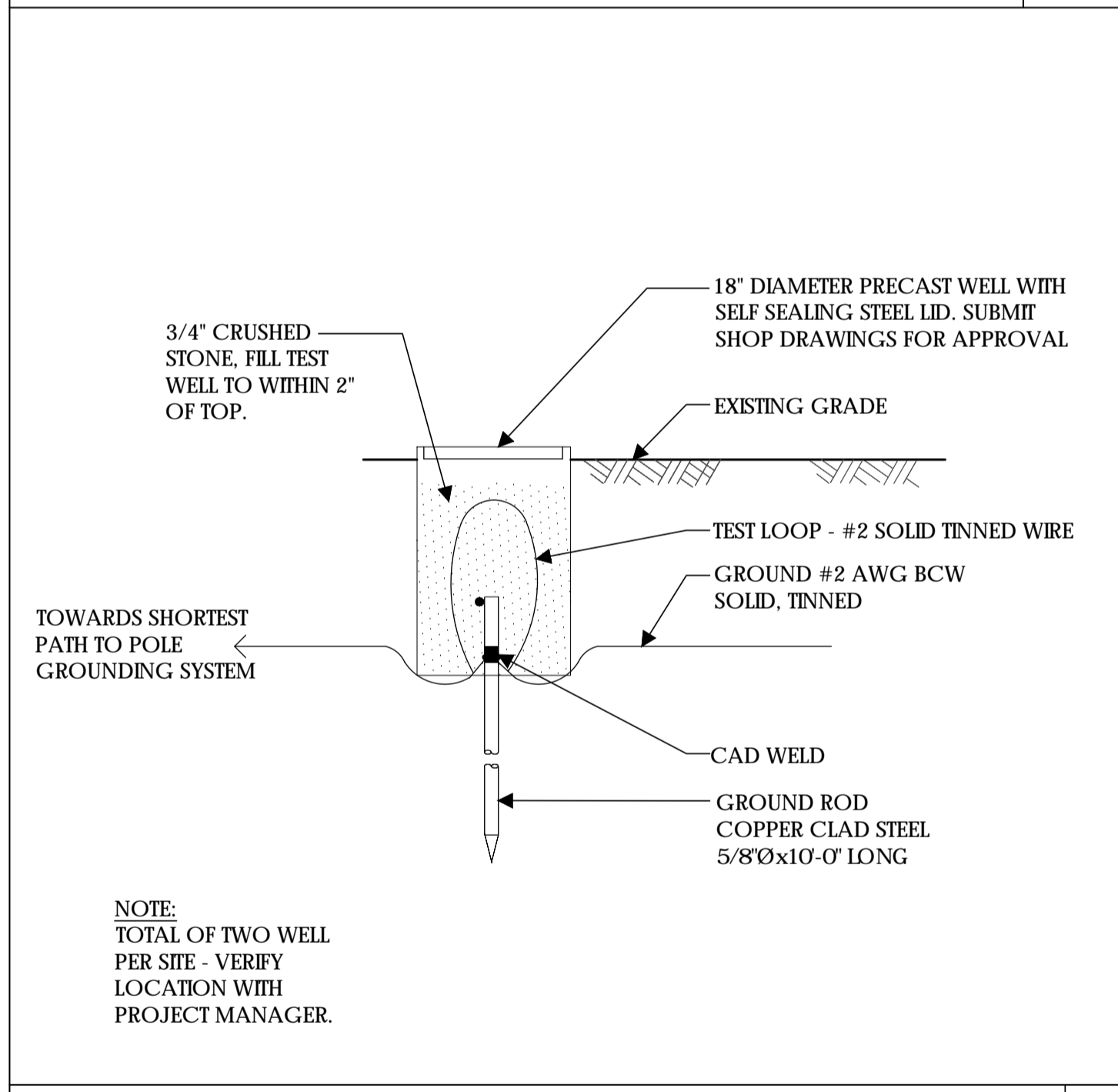


POLE GROUNDING RISER DIAGRAM (TYP.)

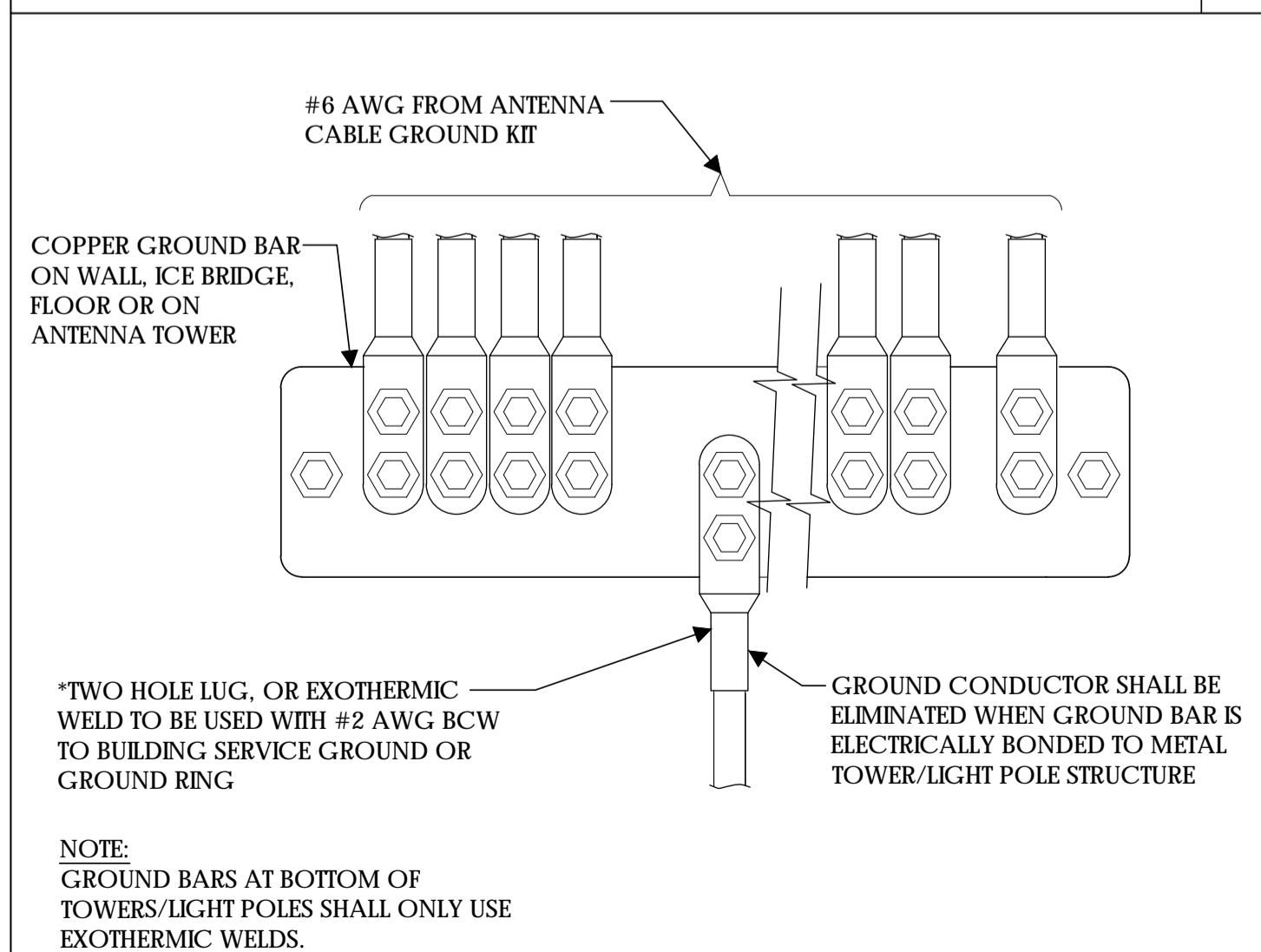
SCALE
N.T.S. **1**



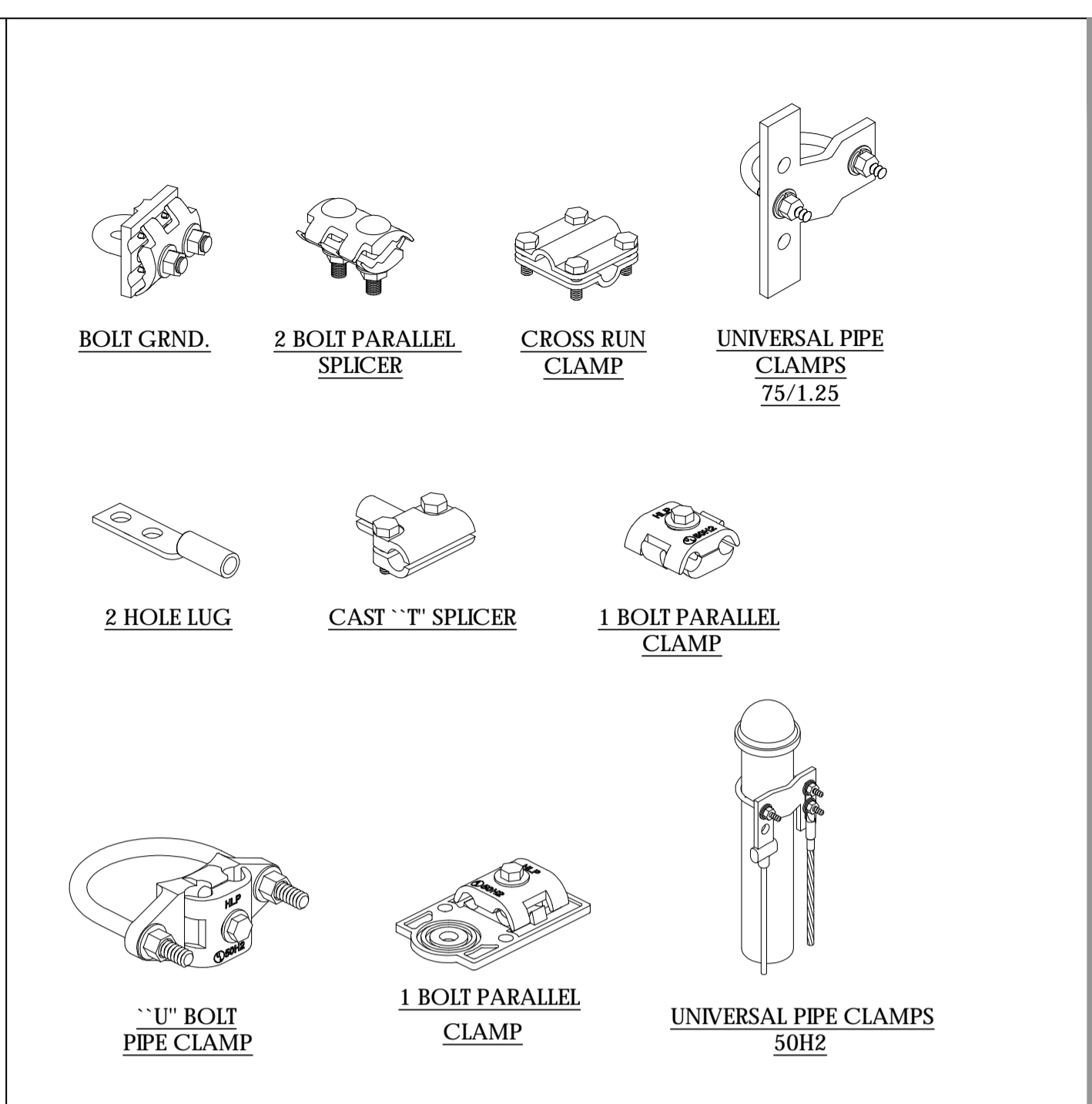
EXOTHERMIC WELD CONNECTION **2**



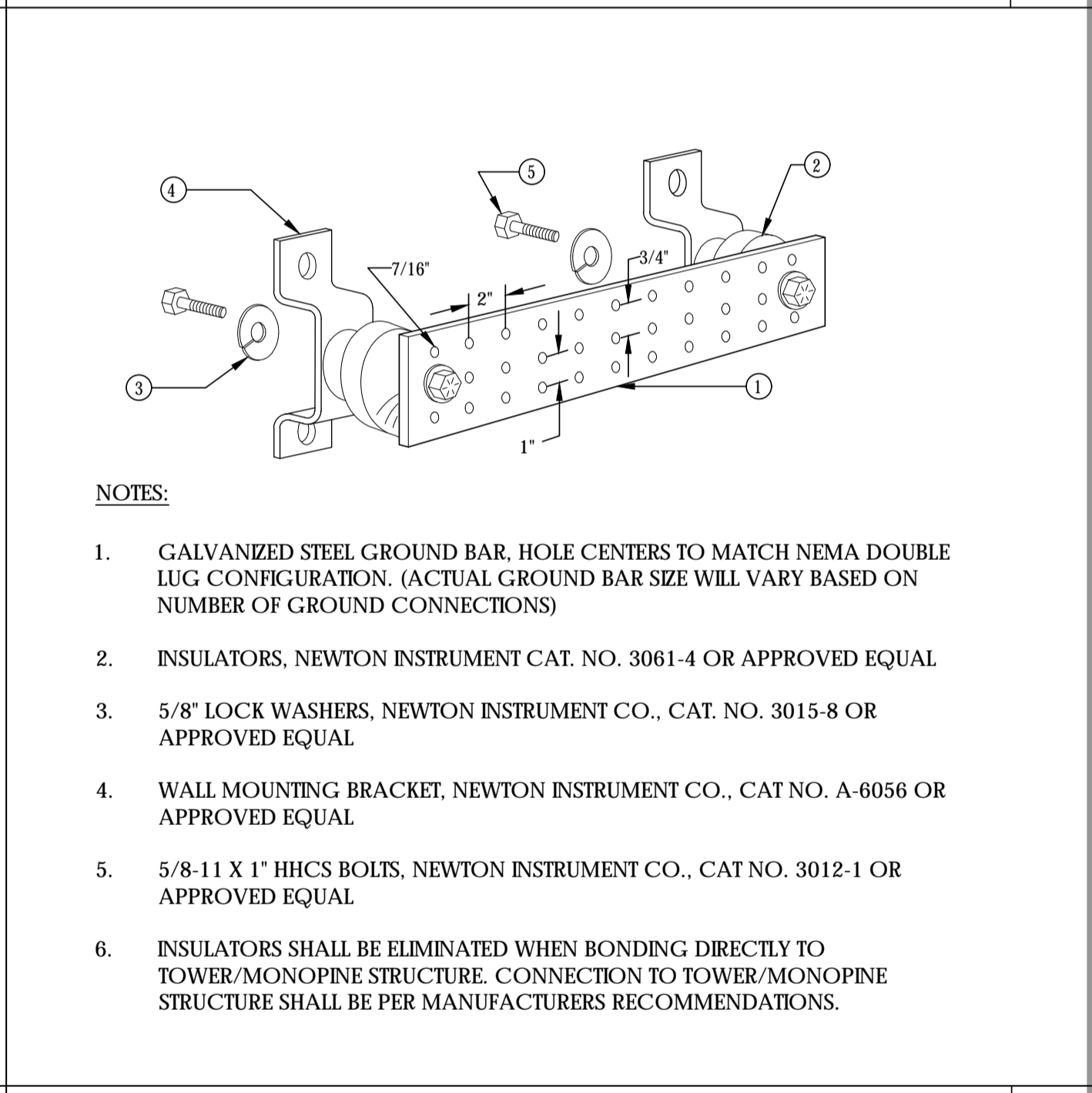
GROUND TEST WELL **3**



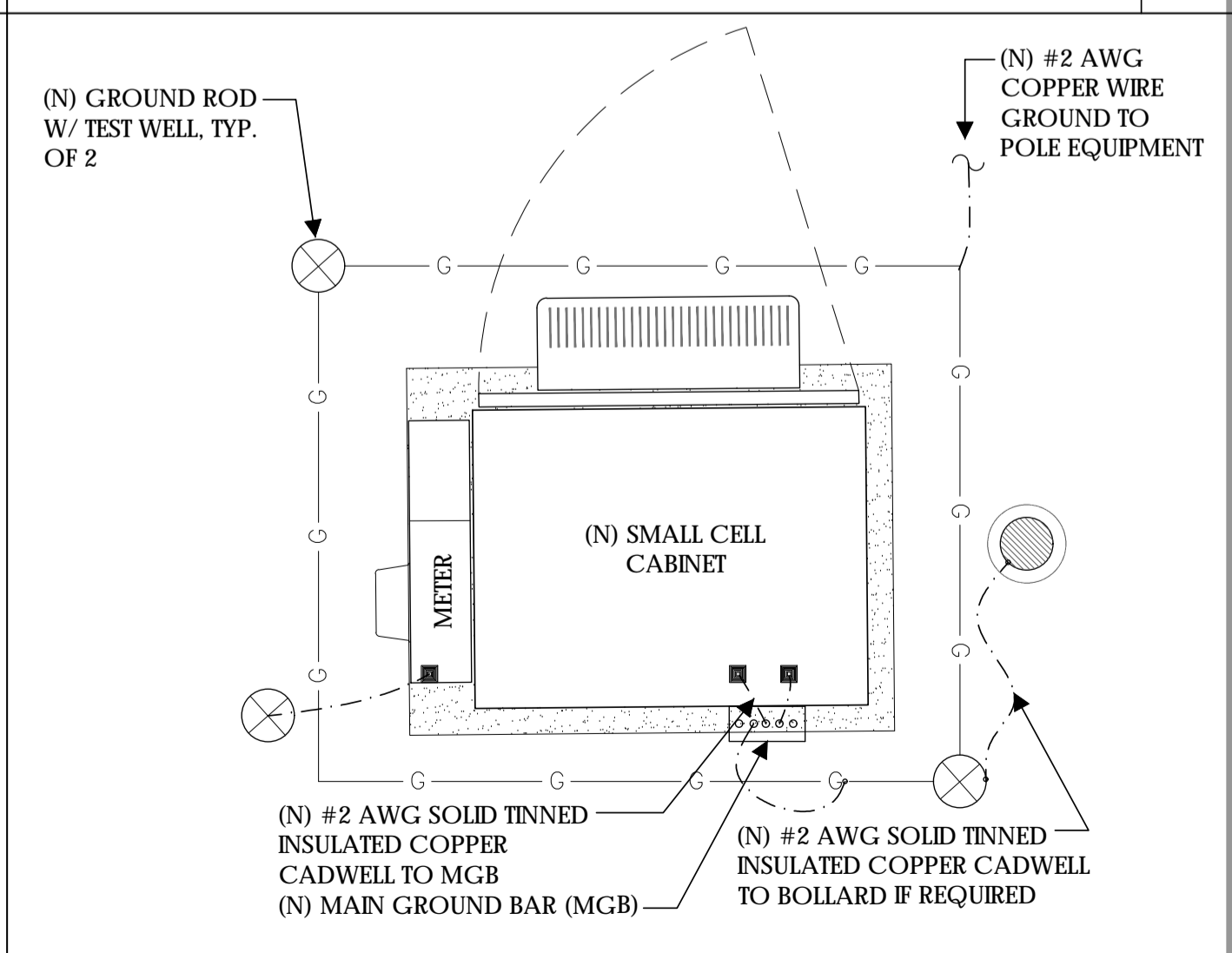
INSTALLATION OF GND WIRE TO GND BAR **4**



MECHANICAL CONNECTION **5**



BUSS BAR **6**



GROUND RING TYP. **7**



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Client:



Project Architect:



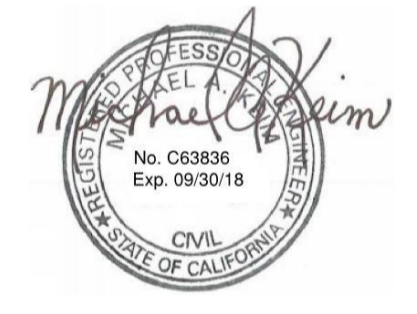
Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Project No.:

Date: 04/03/18 Job No.:

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Designed By: JG Checked: RB

GROUNDING PLAN
ELECTRICAL DETAILS
Sheet Title:

E.2

Sheet No.:

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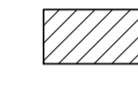

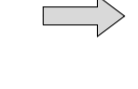

PLAN NOTES:

1. PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE-SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRM PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFIED BY THE AUTHORITY HAVING JURISDICTION.
2. EXTEND CHANNELIZATION DEVICES INTO SHOULDER WHERE APPLICABLE.
3. DISTANCES AS INDICATED IN TABLE 1 SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING. DISTANCE SUCH AS DOWNGRADES OR LIMITED SIGHT DISTANCES. DISTANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTIAL) AREAS WITH APPROVAL BY THE AUTHORITY HAVING JURISDICTION. NIGHT-TIME WORK IS PROHIBITED UNLESS IT IS REQUIRED AS A CONDITION OF APPROVAL BY THE HIGHWAY AND LOCAL AUTHORITY HAVING JURISDICTION.
4. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH.
5. MAINTAIN A MINIMUM LANE WIDTH OF 10'.

DOT NOTES:

1. WHEN LANE CLOSURE IS REQUIRED, THE TRAFFIC CONTROL PLAN SHOULD BE PROVIDED AND NOTARIZED BY AN INDIVIDUAL/COMPANY THAT HAS FLAGGER CONTROL TRAINING CERTIFICATION.
2. "BLUE-LIGHTS" (OFF-DUTY POLICE OFFICERS) WILL BE ON SITE FOR LANE CLOSURES AND IF REQUIRED.

LEGEND

-  CHANNELIZING DEVICE
-  SIGN
-  WORK SPACE
-  FLAGGER
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW SIGN (FAS)

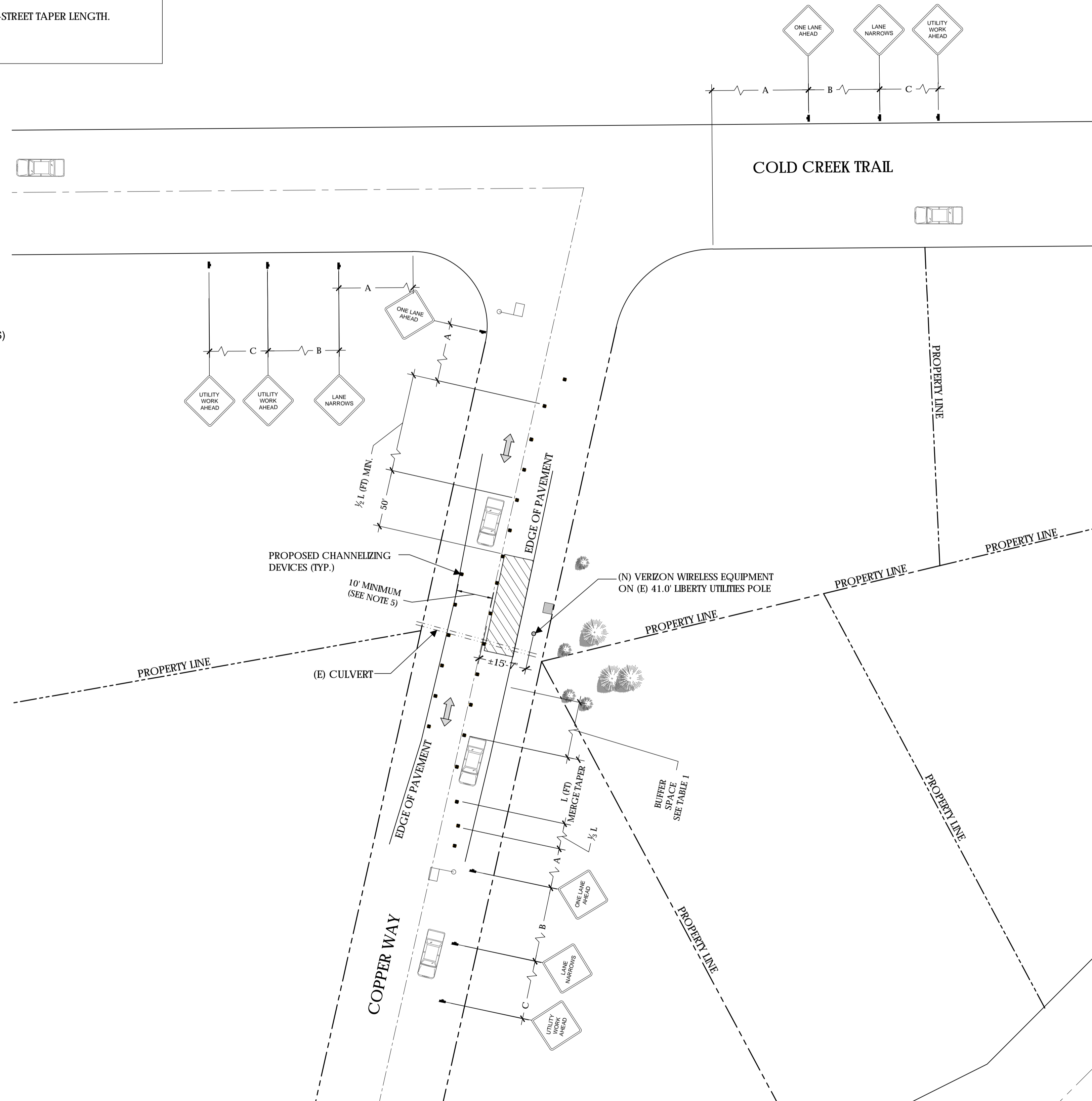


TABLE 1

POSTED SPEED (MPH)	DISTANCE BETWEEN SIGNS			TAPER L (SEE NOTE)	BUFFER
	A	B	C		
15	100'	100'	100'	45'	100'
20	100'	100'	100'	80'	115'
25	100'	100'	100'	125'	155'
30	200'	200'	200'	180'	200'
35	200'	200'	200'	245'	250'
40	350'	350'	350'	320'	305'
45	350'	350'	350'	540'	360'
50	500'	500'	500'	600'	425'
55	500'	500'	500'	660'	495'
60	500'	500'	500'	720'	570'
65	500'	500'	500'	780'	645'

- NOTES:**
- A) DISTANCES IN FEET UNLESS OTHERWISE NOTED.
 - B) CONTRACTOR TO VERIFY EXISTING SPEED LIMIT.
 - C) DISTANCES SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS. CONSULT STATE DOT MANUAL FOR DISTANCES.
 - D) ADJUST DISTANCES TO COMPLY WITH REQUIREMENT OF THE STATE OR LOCAL HIGHWAY AUTHORITY HAVING JURISDICTION. SEE NOTE 1, SHEET TC-2.
 - E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH.



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings
(E) LIGHT POLE
Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

VEHICLE TRAFFIC CONTROL PLAN

Sheet Title:

TC.1

Sheet No.:

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Geil Engineering
Engineering * Surveying * Planning
1226 High Street
Auburn, California 95603-5015
Phone: (530) 885-0426 * Fax: (530) 823-1309

Verizon Wireless

Project Name: SC South Lake Tahoe 075

Project Site Location: PROW High Meadow Trail
South Lake Tahoe, CA
El Dorado County

Date of Observation: 02-22-18

Equipment/Procedure Used to Obtain Coordinates: Trimble GeoXT post processed with
Pathfinder Office software.


Type of Antenna Mount: Existing Utility Pole

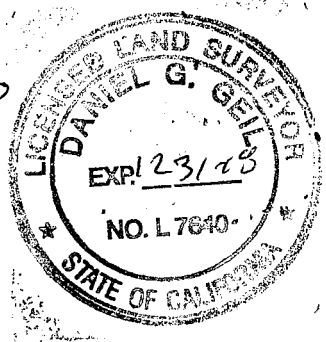
Coordinates:

Latitude:	N 38°54'26.09" (NAD83)	N 38°54'26.42" (NAD27)
Longitude:	W 119°57'42.32" (NAD83)	W 119°57'38.67" (NAD27)

ELEVATION of Ground at Structure (NAVD88)	6332.2' AMSL
Height of Structure:	38.4' AGL

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91:003, and that they are true and accurate to the best of my knowledge and belief.


Daniel G. Geil L.S. 7640



02-26-18

Exhibit E1



SC SOUTH LAKE TAHOE 075

PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH MEADOW TRAIL
SOUTH LAKE TAHOE, CA 96150

PSL #481972



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 075
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

TITLE SHEET

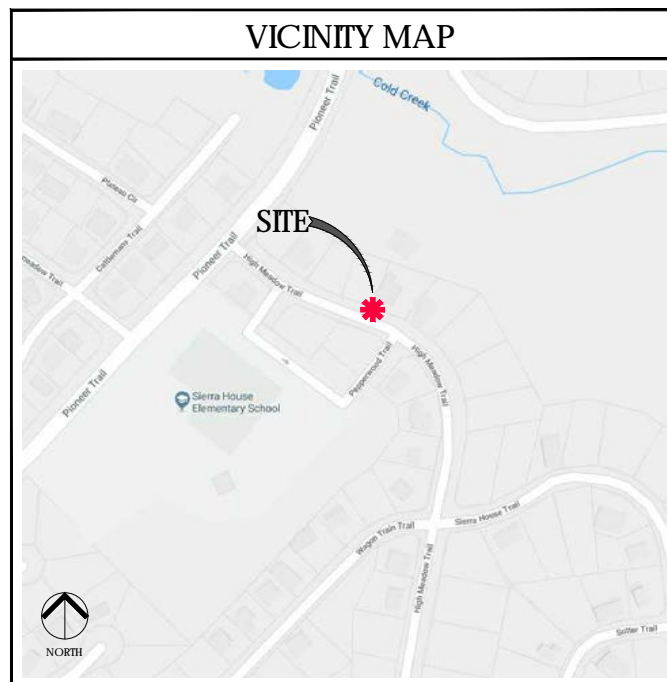
Sheet Title:

T.1

Sheet No.:

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SITE INFORMATION	
PSL #:	481972
OWNER:	LIBERTY UTILITIES 701 NATIONAL AVE TAHOE VISTA, CA 96148 ERIC TROSKA T 775-870-2469 M 775-870-2469
APPLICANT:	VERIZON WIRELESS 2785 MITCHELL DRIVE, SUITE 9 WALNUT CREEK, CA 94598
AGENT:	EPIC WIRELESS 222 W. LOCKEFORD STREET SUITE 9 LODI, CA 95240 TEL: (916) 781-5921
APN ADJACENCY:	025-721-061
SITE ADDRESS:	PROW HIGH MEADOW TRAIL (NEAR) 1751-1755 HIGH MEADOW TRAIL SOUTH LAKE TAHOE, CA 96150
COUNTY:	EL DORADO
ZONING:	PUBLIC ROW
ZONING JURISDICTION:	EL DORADO COUNTY
LAT:	38° 54' 26.09"
LONG:	119° 57' 42.32"
ELEVATION	+6332.2' AMSL

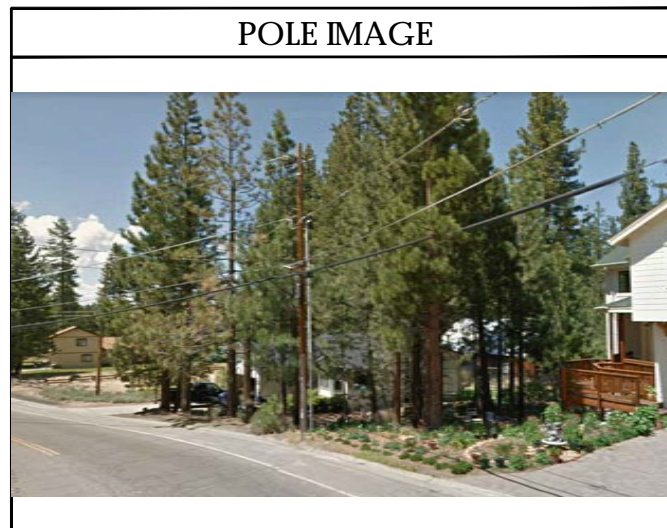


PROJECT TEAM	
AGENT	
Epic Wireless Group, Inc. 222 W. Lockeford Street Suite 9 Lodi, CA 95240 Tel: (916) 781-5921	
cell: 916.216.7931 email: rob.hernandez@epicwireless.net	
CONSTRUCTION MANAGER: ROB HERNANDEZ	
cell: 916.203.4067 email: mark.lobaugh@epicwireless.net	
LEASING & ZONING MGR: MARK LOBAUGH	
cell: 916.203.4067 email: mark.lobaugh@epicwireless.net	
ARCHITECT/ENGINEER	
Meridian Management LLC 785 Oak Grove Road E2 Suite 251 Concord, CA 94518 www.meridian.management	
PROJECT MANAGER: RODNEY BARNES	
cell: 707.592.5924 email: rodney@meridian.management	
CLIENT	
Verizon Wireless 2785 Mitchell Drive Suite 9 Walnut Creek, CA 94598	

PROJECT DESCRIPTION	
THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE VERIZON WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING WOOD POLE IN THE PUBLIC RIGHT-OF-WAY.	
SCOPE OF WORK	
<ol style="list-style-type: none"> INSTALL NEW TELECOMMUNICATIONS EQUIPMENT BOXES ON AN EXISTING 38.4' HT. WOOD POLE. ALL POLE-MOUNTED EQUIPMENT TO BE INSTALLED ON A GO95 COMPLIANT STANDOFF BRACKET. EQUIPMENT CONSISTS OF (1) CANTENNA ON 7' WOOD POLETOP EXTENSION, (1) RRU4449, (1) RRU8843, (2) DIPLEXERS, (2) DISCONNECT SWITCHES, (1) RRU SHROUD, (2) STL BOLLARDS, (1) GROUND-MOUNTED SMALL CELL CABINET, AND A POWER METER ON SIDE OF SMALL CELL CABINET. OVERHEAD POWER FROM TRANSFORMER. INSTALL POLE STEPS AS REQUIRED ALL POLE-MOUNTED EQUIPMENT INCLUDING CONDUIT RISERS TO BE INSTALLED MIN. 5" FROM POLE ON STANDOFF BRACKETS ALL EQUIPMENT TO BE PAINTED VALSPAR 'DEEP EARTH' COLOR. 	

DRAWING INDEX	
SHEET NO:	SHEET TITLE
T.1	TITLE SHEET
C.1	SITE SURVEY
A.1	OVERALL SITE PLAN
A.2	POLE PLAN ENLARGEMENTS
A.3	ELEVATIONS
A.4	ELEVATIONS
A.5	EQUIPMENT DETAILS
A.6	EQUIPMENT DETAILS
A.7	EQUIPMENT DETAILS, PLUMBING DIAGRAM
A.8	EQUIPMENT DETAILS
E.1	SINGLE LINE DIAGRAM, BUSS DIAGRAM, PANEL SCHEDULE
E.2	POLE GROUNDING, ELECTRICAL DETAILS
TC.1	VEHICLE TRAFFIC CONTROL PLAN

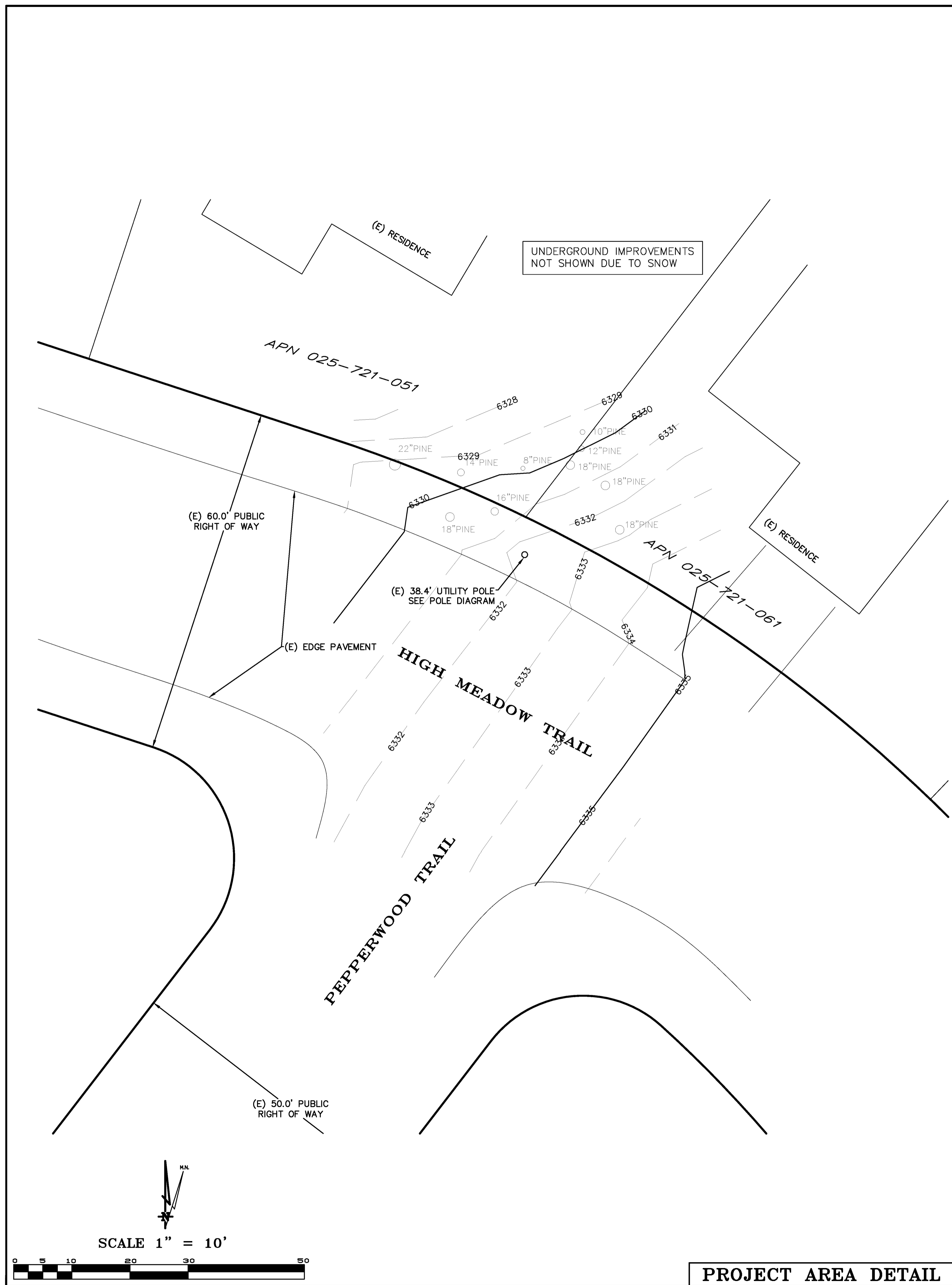
CODE COMPLIANCE	
CONSTRUCTION WORKS AND MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:	
<ul style="list-style-type: none"> CALIFORNIA CODE OF REGULATIONS 2016 CALIFORNIA BUILDING CODE 2016 CALIFORNIA MECHANICAL CODE 2016 CALIFORNIA PLUMBING CODE 2016 CALIFORNIA ELECTRIC CODE 2016 GREEN CODE 2016 EDITION OF TITLE 24 ENERGY STANDARDS ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE CITY / COUNTY ORDINANCES 2016 CALIFORNIA FIRE CODES WITH ALL LOCAL AMENDMENTS GO 95 REGULATIONS 	



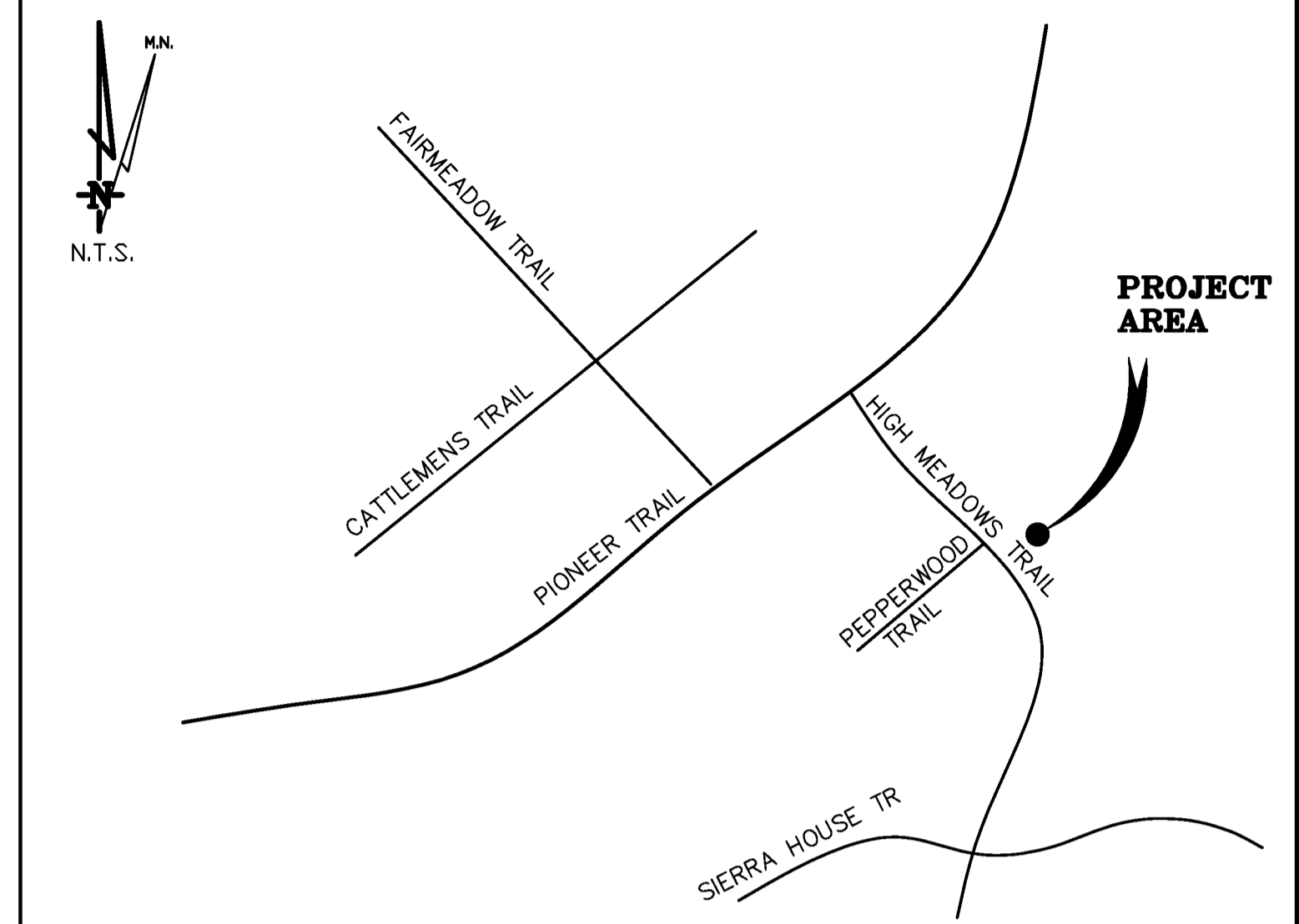
HANDICAP REQUIREMENTS
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 1103B.



ADMINISTRATIVE REQUIREMENTS
CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE



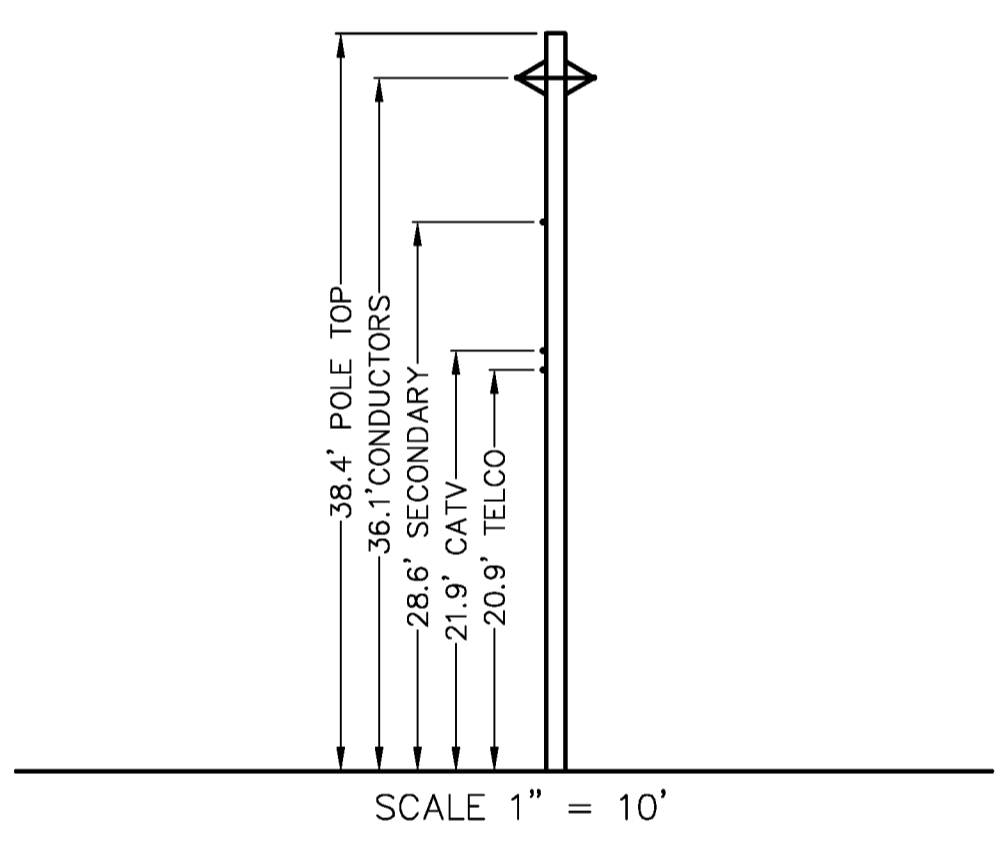
- LEGEND**
- PARCEL BOUNDARY
 - - - NEIGHBORING PARCEL BOUNDARY
 - ==== LEASE AREA BOUNDARY
 - . . . UTILITIES
 - - - (E) EASEMENTS
 - - - (P) EASEMENTS
 - FENCE LINE
 - JP JOINT UTILITY POLE
 - TP TELEPHONE POLE
 - EP ELECTRICAL POLE
 - 6" OAK TREE WITH DIAMETER BREAST HEIGHT (DBH)
 - W WATER VALVE
 - W WATER BOX
 - SSMH SANITARY SEWER MANHOLE
 - SDMH STORM DRAIN MANHOLE
 - DI DROP INLET



SOUTH LAKE TAHOE, CA **VICINITY MAP**

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.



DATE OF SURVEY: 02-22-18

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, RCE 14803
LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 4.16' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: N.A.

ASSESSOR'S PARCEL NUMBER: PUBLIC RIGHT OF WAY HIGH MEADOW TRAIL

LANDLORD(S): LIBERTY UTILITIES
701 NATIONAL AVENUE
TAHOE VISTA, CA 96148

Project Name: SC South Lake Tahoe 075

Project Site Location: PROW High Meadow Trail
South Lake Tahoe, CA
El Dorado County

Date of Observation: 02-22-18

Equipment/Procedure Used to Obtain Coordinates: Trimble GeoXT
post processed with Pathfinder Office software.

Type of Antenna Mount: Existing Utility Pole

Coordinates:
Latitude: N 38°54'26.09" (NAD83) N 38°54'26.42" (NAD27)
Longitude: W 119°57'42.32" (NAD83) W 119°57'38.67" (NAD27)

ELEVATION of Ground at Structure (NAVD88) 6332.2' AMSL
Height of Structure: 38.4' AGL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1526 HIGH STREET
AUBURN, CALIFORNIA 96905
Phone: (530) 825-1000
Fax: (530) 825-1006

verizon

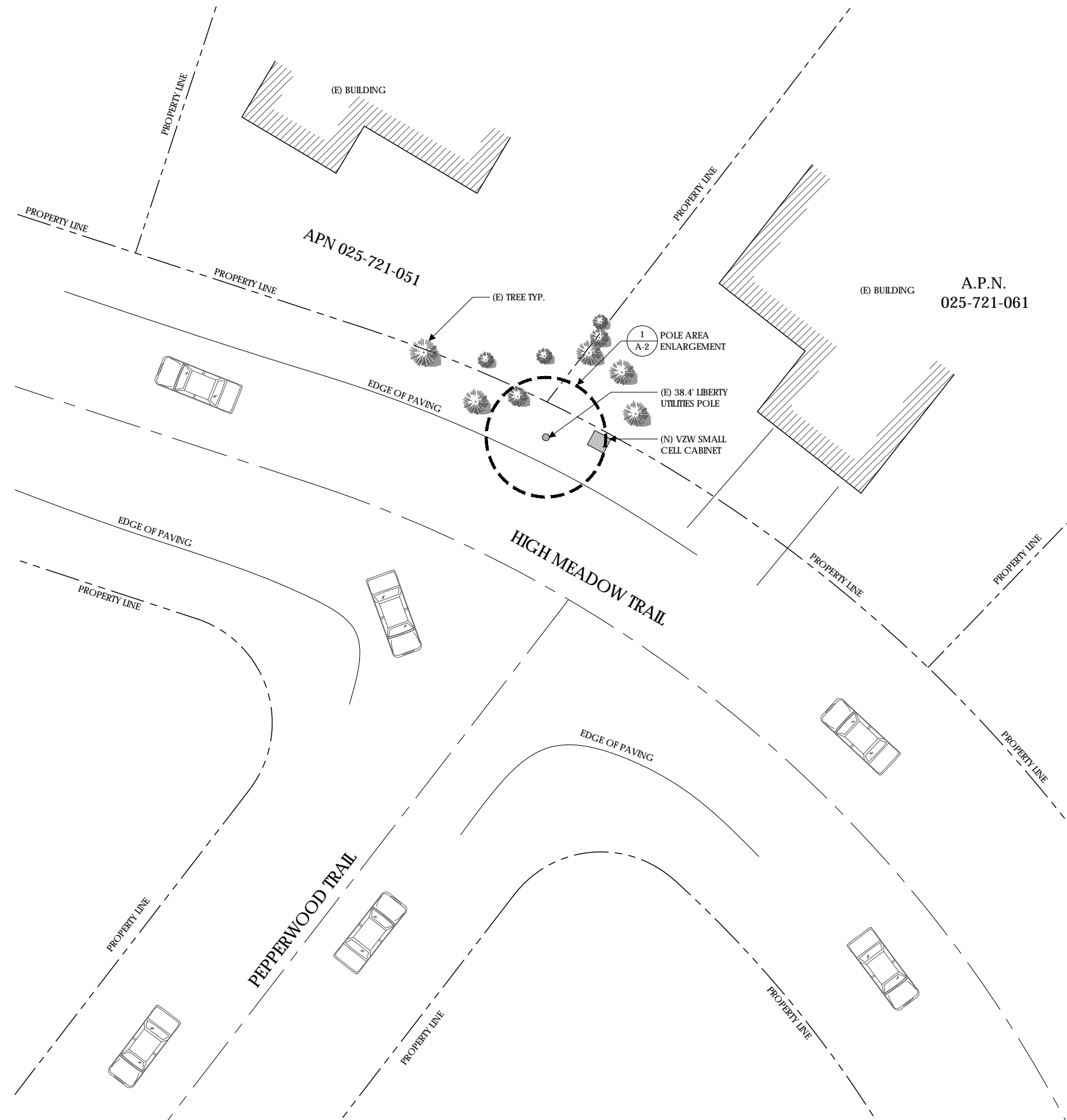
SC South Lake Tahoe
075
PROW High Meadow Trail
South Lake Tahoe, CA
PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS	DATE	BY	DESCRIPTION
02-25-18		DG	Preliminary Drawing
04-02-18		DG	corr. Landlord
04-03-18		DG	corr. 1A

REVISIONS	DATE	BY	DESCRIPTION

Sheet
C-1

PROJECT AREA DETAIL



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 075
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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of a licensed Professional
Architect/Engineer, to alter this document.

Rev.	Date	Description
01	03/26/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

OVERALL SITE
PLAN

Sheet Title:

A.1

Sheet No.:

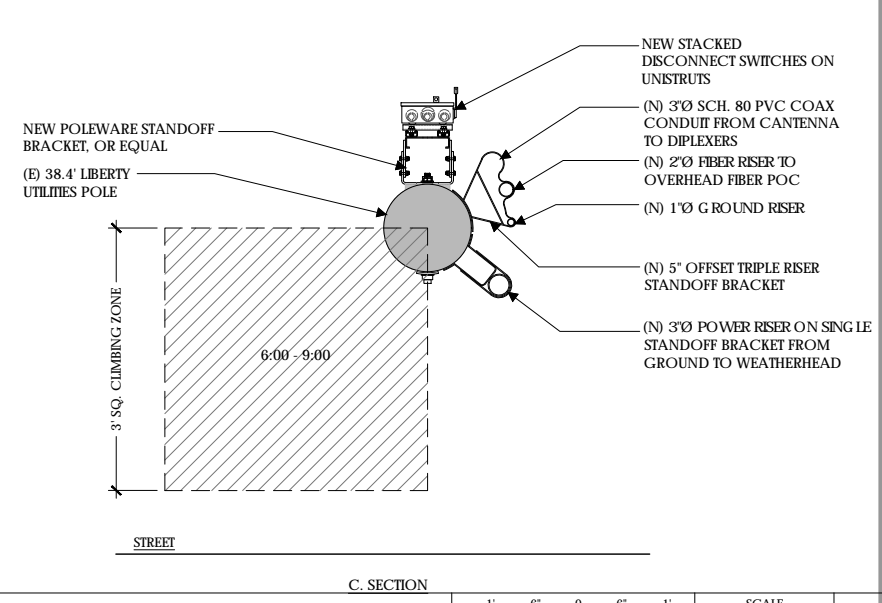
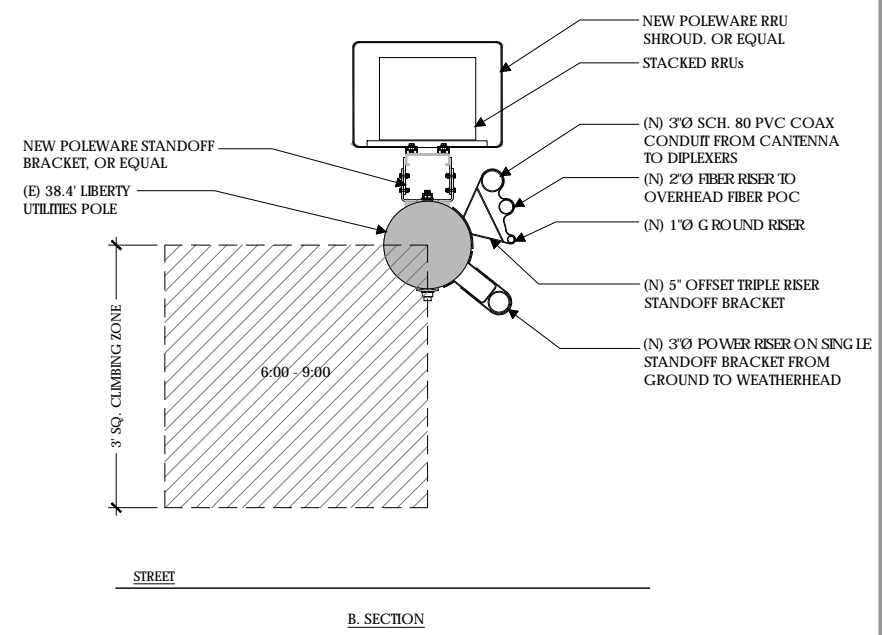
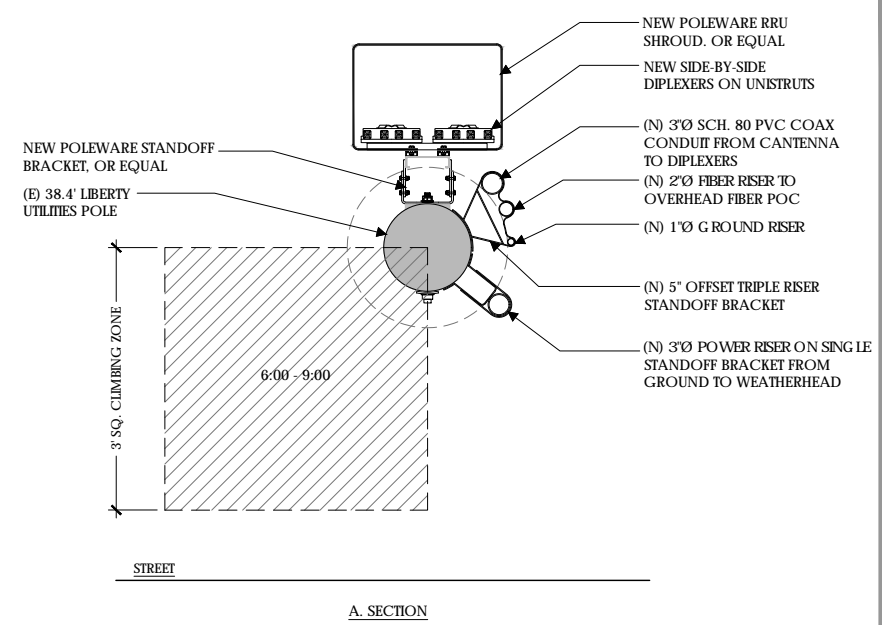
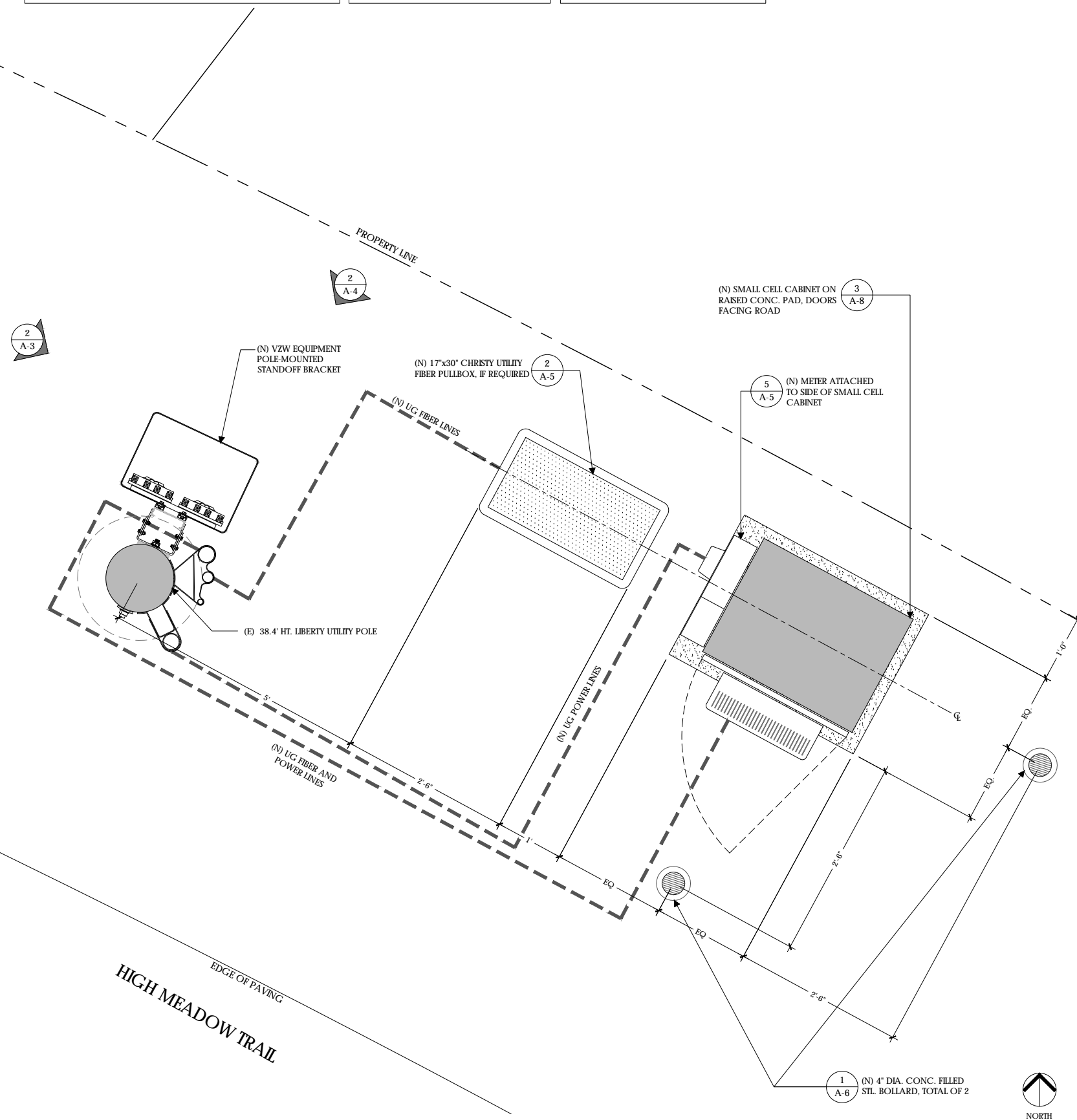
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(N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 12:00 ORIENTATION RELATIVE TO THE STREET. CLIMBING SPACE IS BETWEEN 6:00 AND 9:00. POLE STEPS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE. SEE CONDUIT RISER DETAIL FOR LAYOUT OF RISERS

EQUIPMENT SYSTEM:
ALL NEW COMPONENTS NOT SHOP PAINTED SHOULD BE FIELD PAINTED VALSPAR 'DEEP EARTH' COLOR

NEW CONDUIT FOR POWER/TELCO:
(1) 3" CONDUIT FOR POWER
(1) 2" CONDUIT FOR FIBER
(1) 3" CONDUIT FOR COAX
(1) 1" CONDUIT FOR GROUND



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:

MM Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
7 707.592.5924
www.meridian.management

Project Architect:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World
222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 075
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

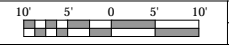
PLAN ENLARGEMENT
POLE PLAN
ENLARGEMENTS
Sheet Title:

A.2

Sheet No.:

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POLE AREA ENLARGEMENT



1

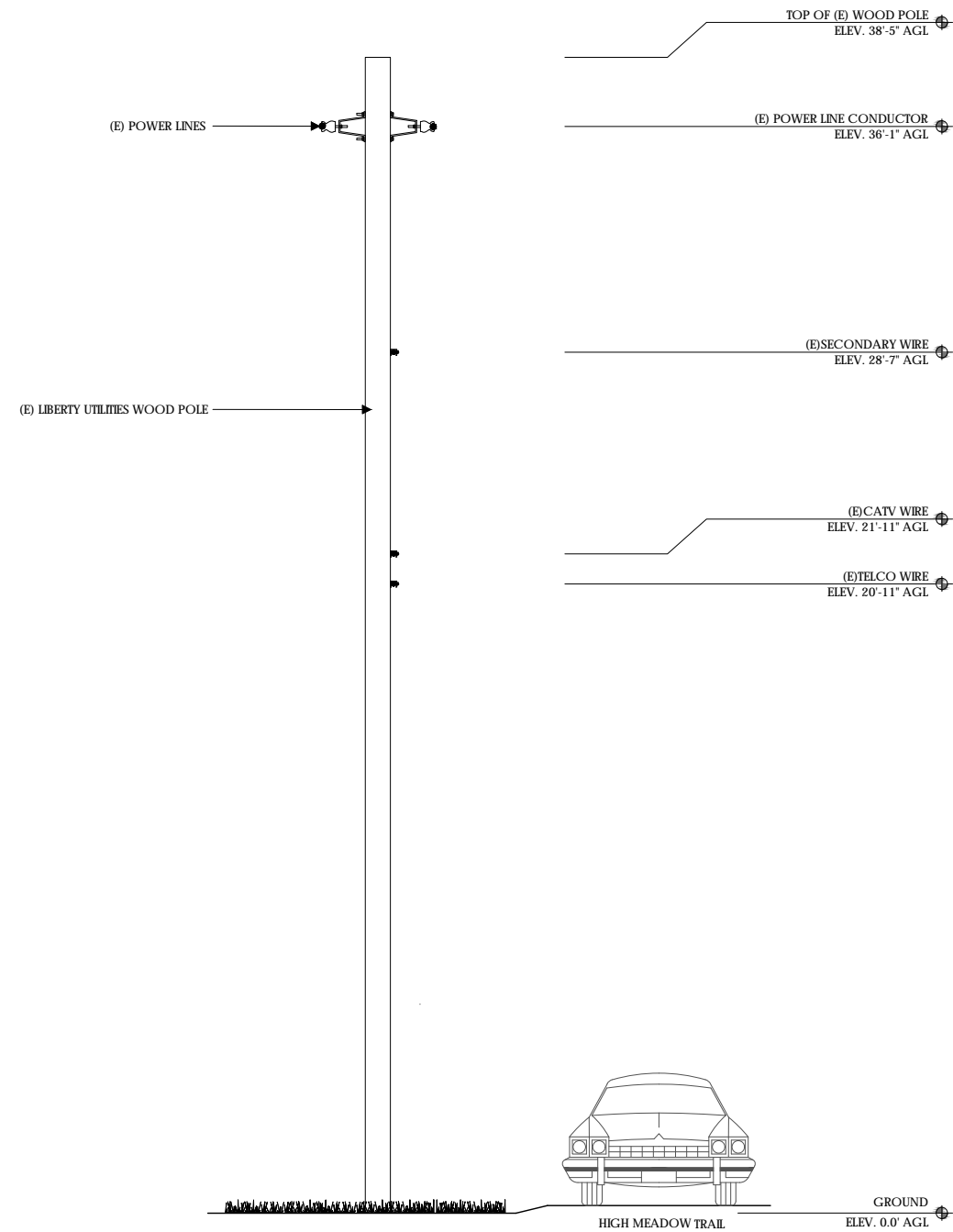
POLE SECTIONS



2

MAKE READY NOTES

1. ALL LIBERTY SITE SPECIFIC MAKE READY IMPROVEMENTS TO BE COMPLETED PRIOR TO VERIZON INSTALLATION.
2. ALL RISER LOCATIONS SHOWN ON PLANS TO BE VERIFIED BY LIBERTY PRIOR TO INSTALLATION.
3. ANY CONFLICTS WITH PROPER RISER INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF VZW PRIOR TO CONSTRUCTION.

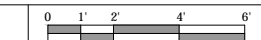
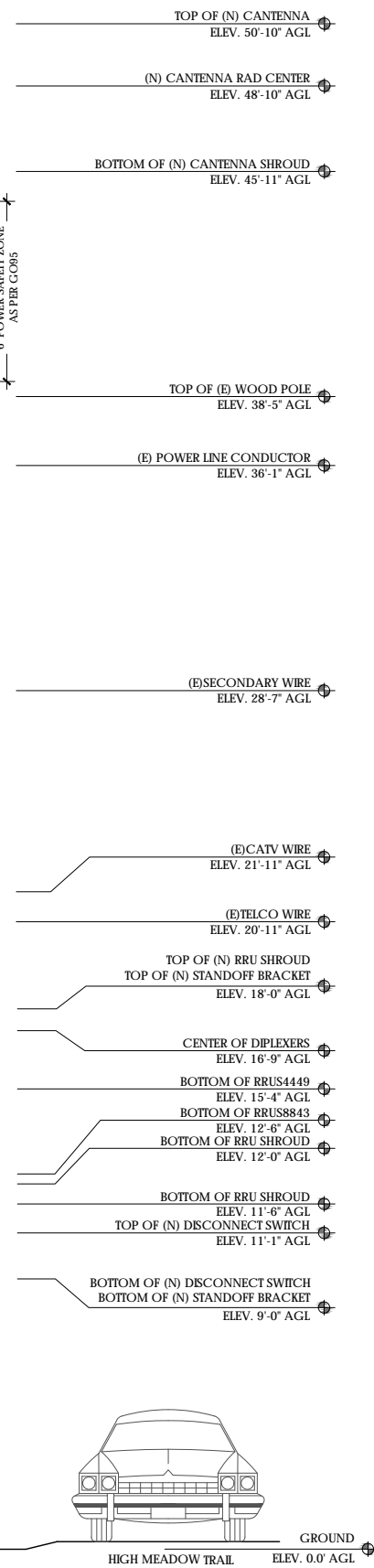
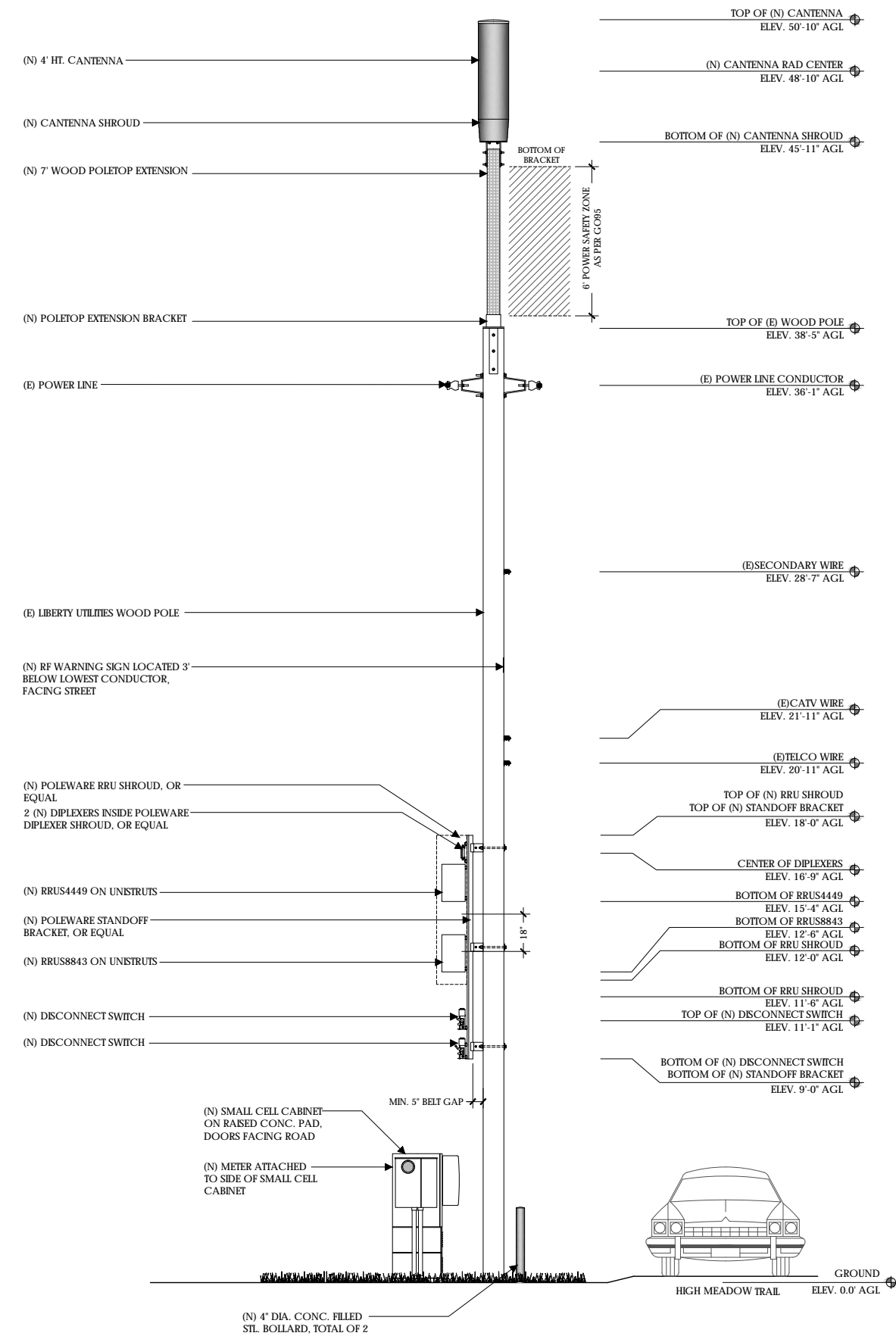


SOUTH ELEVATION - EXISTING



SCALE 3/8" = 1'-0" **1**

SOUTH ELEVATION - PROPOSED



SCALE 3/8" = 1'-0" **2**



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

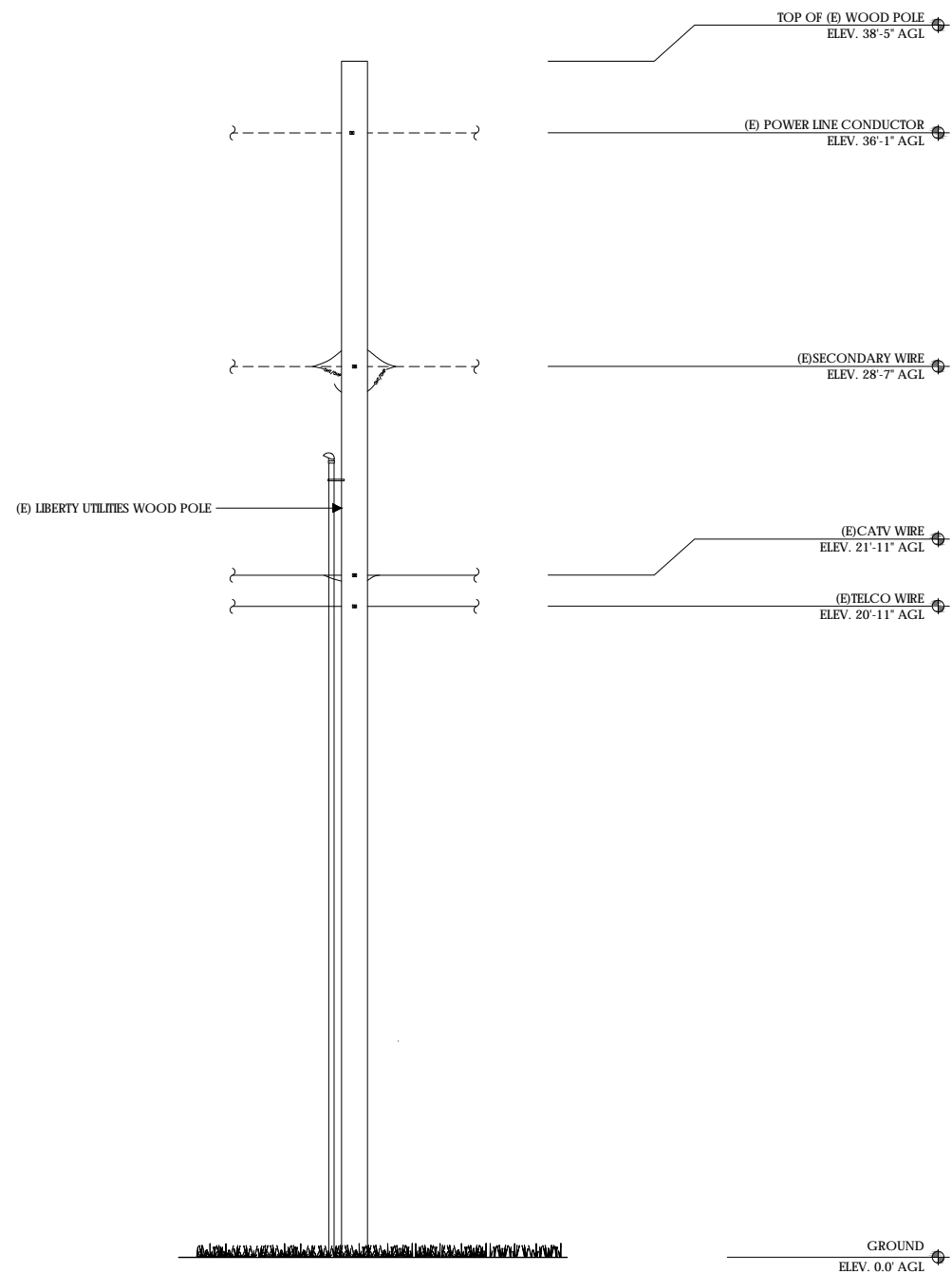
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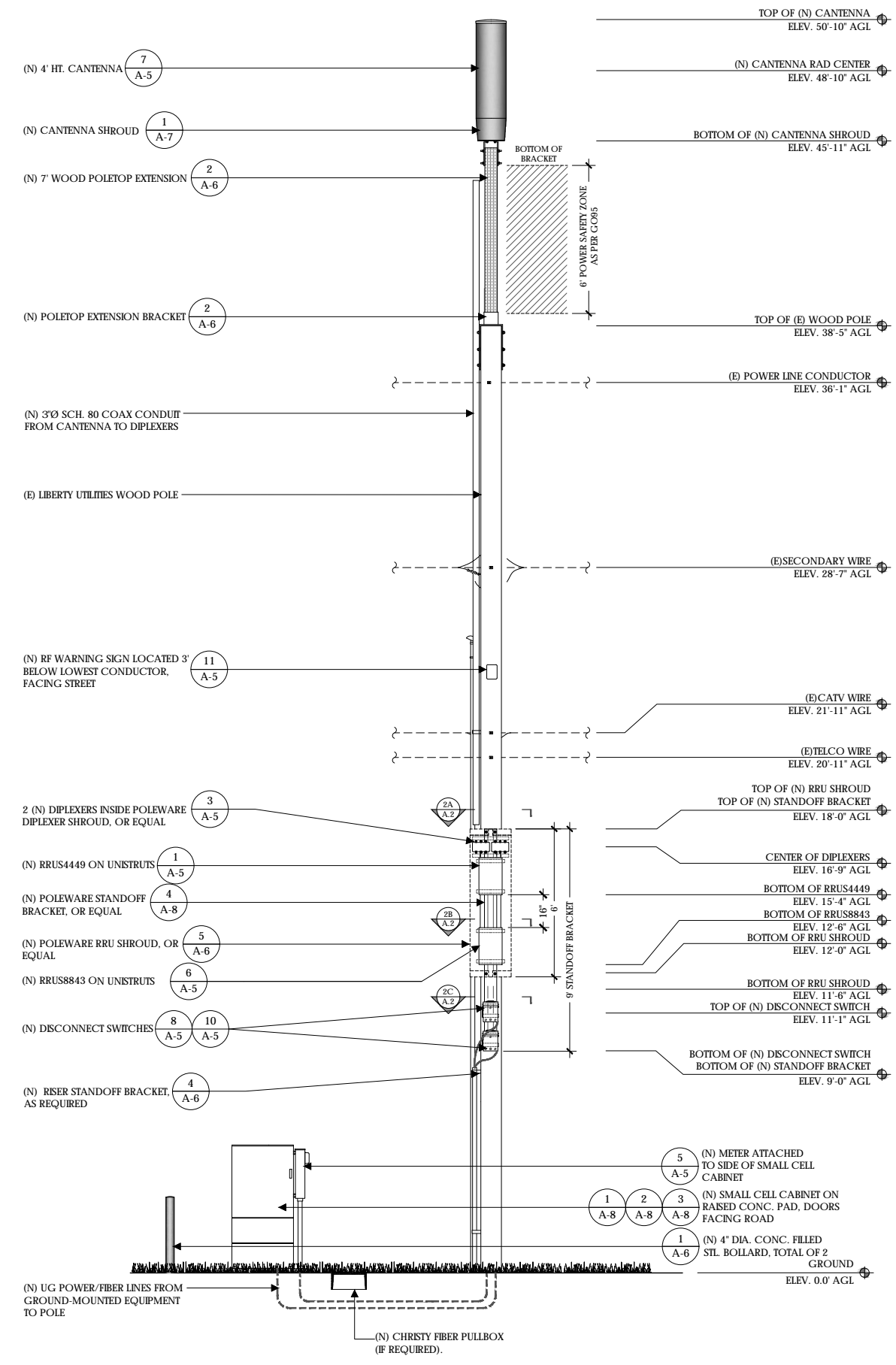
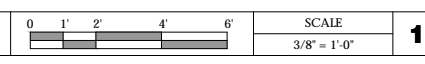
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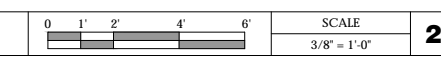
- NOTES:**
- (N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 9:00 QUADRANT.
 - PROVIDE POLE STEPS AS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE.
 - VALSPAR 'DEEP EARTH' COLOR
 - COORDINATE MAKE-READY WORK WITH LIBERTY. WORK PROVIDED BY OTHERS



EAST ELEVATION - EXISTING



EAST ELEVATION - PROPOSED



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2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings

Drawing Phase:

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TAHOE 075
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

Sheet Title:

A.4

Sheet No.:

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UNIT: ERICSSON RRU5449 B5 B13 W/
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

LENGTH: 9.4 INCHES

WEIGHT: 70 LBS (EXCLUDES MOUNTING HARDWARE)



UNIT: ERICSSON RRU8843 W/
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

DEPTH: 11.3 INCHES

WEIGHT: 75 LBS



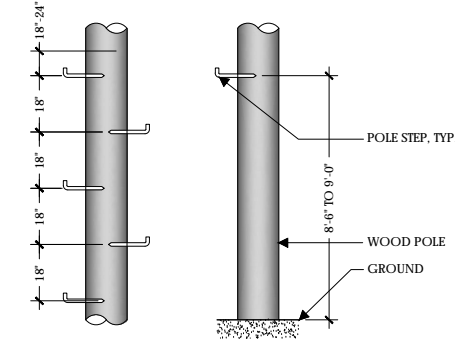
STEP: POLE STEPS ARE USED ON WOOD POLES WHERE FREQUENT ACCESS TO POLE MOUNTED EQUIPMENT IS REQUIRED. FLAT DRIVING SURFACE AND SHARP POINT EASE INSTALLATION. FETER DRIVE THREAD PERMITS REMOVAL WITH A WRENCH. HOT-DIPPED GALVANIZED FOR CORROSION RESISTANCE. NOTCHED MARK ON STEP INDICATES PROPER DRIVING DEPTH.

WEIGHT PER 100: 99 LBS

MANUFACTURER: AERIAL SERVICE COMPANY, INC.
1-800-256-5186
http://www.linemen-tools.com/J1118

MODEL #: J1118

DESCRIPTION: POLE STEPS ARE USED ON WOOD POLES WHERE FREQUENT ACCESS TO POLE MOUNTED EQUIPMENT IS REQUIRED. FLAT DRIVING SURFACE AND SHARP POINT EASE INSTALLATION. FETER DRIVE THREAD PERMITS REMOVAL WITH A WRENCH. HOT-DIPPED GALVANIZED FOR CORROSION RESISTANCE. NOTCHED MARK ON STEP INDICATES PROPER DRIVING DEPTH.

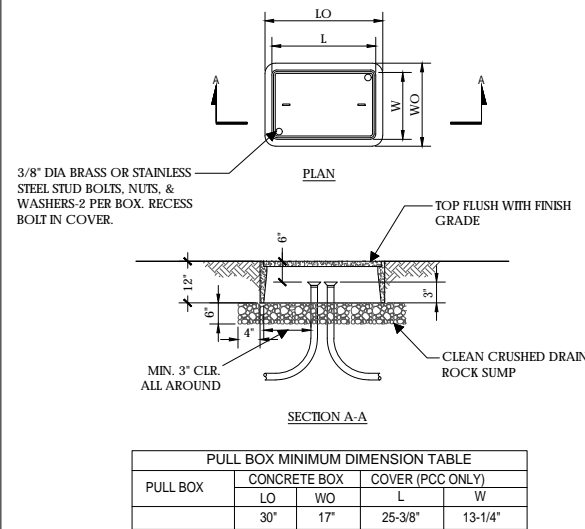


RRUS4449

1 RRUS8843

6 POLE STEPS

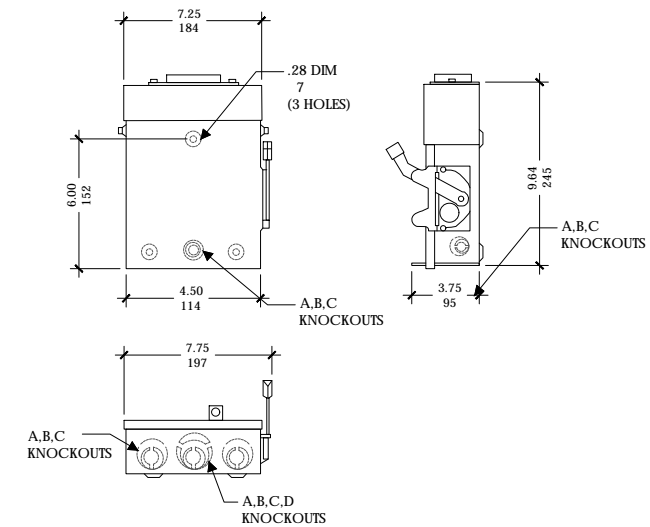
9



HEIGHT: 48.0 INCHES

DIAMETER: 14.6 INCHES

WEIGHT: 38.1 LBS (WITHOUT MOUNTING BRACKET)



FIBER TRANSPORT PULL BOX

2

NOT USED

4

CANTENNA

7

DISCONNECT SWITCH

SCALE NOT TO SCALE 10



UNIT: 100 AMP METER W/ TEST BYPASS

HEIGHT: 24 INCHES

WIDTH: 25 INCHES

DEPTH: 4-5/8 INCHES



NOTE: NEW PHENOLIC SIGN ATTACHED TO EXTERIOR PANEL

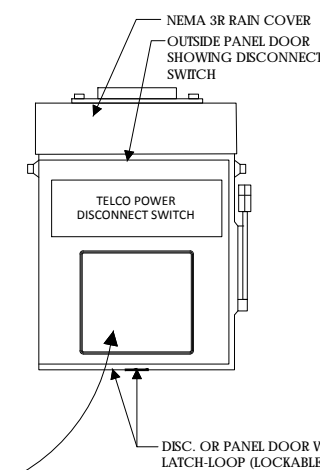
NORMAL SHUT-DOWN PROTOCOLS:

1. Call 800-264-6620 NOC 24 HRS prior to schedule a shutdown day and time.
2. Give NOC the Node number _____.
3. On scheduled day of shutdown, pull the disconnect handle to the "OFF" position.
4. Call NOC when work is completed.

EMERGENCY SHUT-DOWN PROTOCOLS:

1. Call 800-264-6620 NOC immediately.
2. Give NOC the Node number _____.
3. Pull the disconnect handle to the "OFF" position.
4. Call NOC when work is completed.

CONTRACTOR NOTE: SITE ID WILL BE SITE ID, MARKET ID, SITE #, AND SITE NAME



ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE 3' BELOW ANTENNA

SIGN PLACEMENT: AFFIX TO THE STRUCTURE 3-4' BELOW THE COMMERCIAL RF ANTENNA(S) OR 3' BELOW LOWEST POWER WIRE

SIGN COLOR: YELLOW

CONTRACTOR NOTE: SITE ID WILL BE SITE ID, MARKET ID, SITE #, AND SITE NAME

DIPLEXER

3

METER

5

DISCONNECT SIGNAGE

8

RF WARNING SIGNAGE

11

verizon

Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
707.592.5924
www.meridian.management

Project Architect:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World

222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction
Drawings

Drawing Phase:

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PROW HIGH MEADOW TRAIL
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MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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Rev.	Date	Description
01	03/26/18	Constr. Dwg 90%
02	04/03/18	Constr. Dwg 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT
DETAILS

Sheet Title:

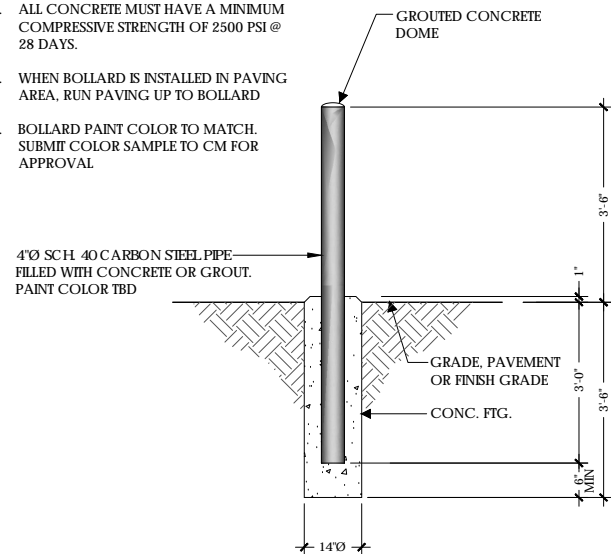
A.5

Sheet No.:

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NOTES:

1. SPACE BOLLARDS AS SHOWN ON PLAN OR AS DIRECTED BY CONSTRUCTION MANAGER.
2. ALL CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI @ 28 DAYS.
3. WHEN BOLLARD IS INSTALLED IN PAVING AREA, RUN PAVING UP TO BOLLARD
4. BOLLARD PAINT COLOR TO MATCH. SUBMIT COLOR SAMPLE TO CM FOR APPROVAL.



4" DIA. STEEL BOLLARD

SCALE
NOT TO SCALE

1

NOT USED



SINGLE CONDUIT STANDOFF

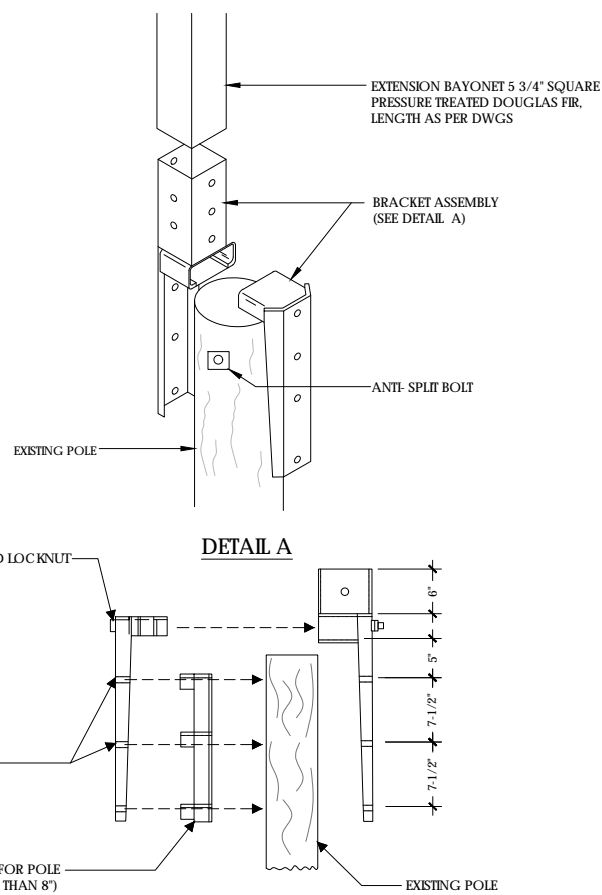


TRIPLE CONDUIT STANDOFF

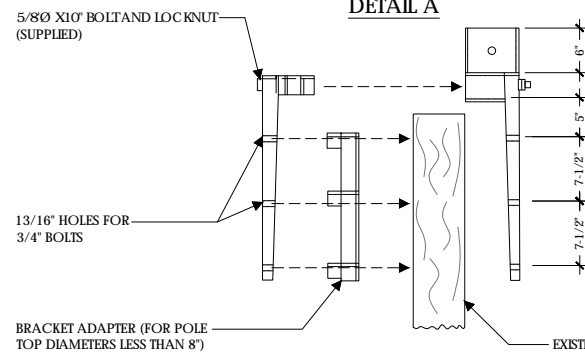
* OR EQUAL

RISER STANDOFF BRACKETS

4



DETAIL A



DETAIL B

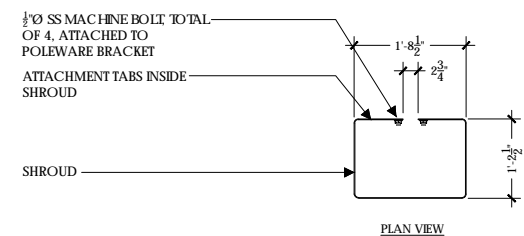
NOTE:
(N) BRACKET ASSEMBLY TO BE PROVIDED BY UTILITY COMPANY AND PAINT TO MATCH

POLETOP WOOD EXTENSION AND BRACKET

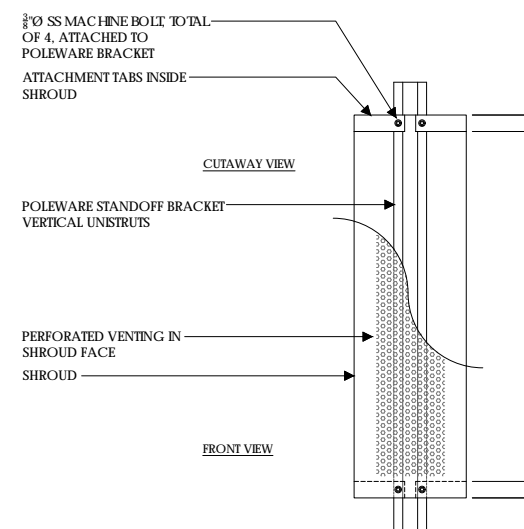
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2

RRU SHROUD



PLAN VIEW

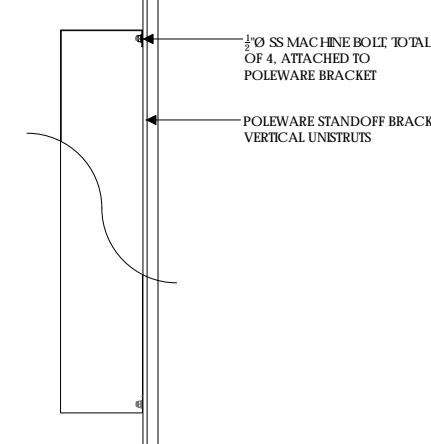


FRONT VIEW

FRONT ELEVATION



ISO



SIDE ELEVATION

NOTE:

1. RRU SHROUD MODEL #PW-RRS-072L-TAH-SP AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
2. ALL COMPONENTS TO BE SHOP PRIMED PAINTED
3. UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
4. CUSTOMER TO SPECIFY SHROUD HEIGHT AT TIME OF ORDERING.



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction
Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT
DETAILS

Sheet Title:

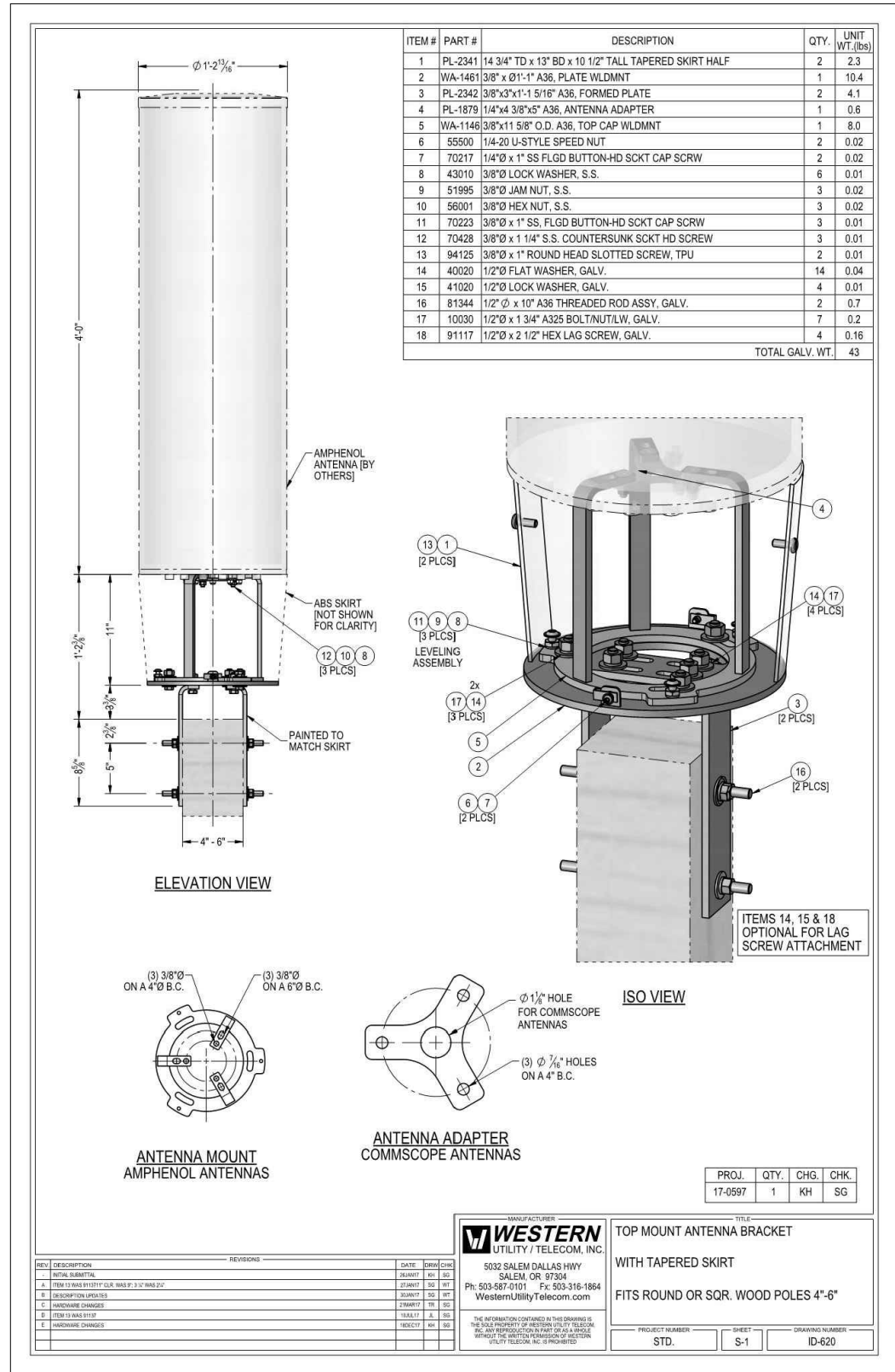
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SCALE
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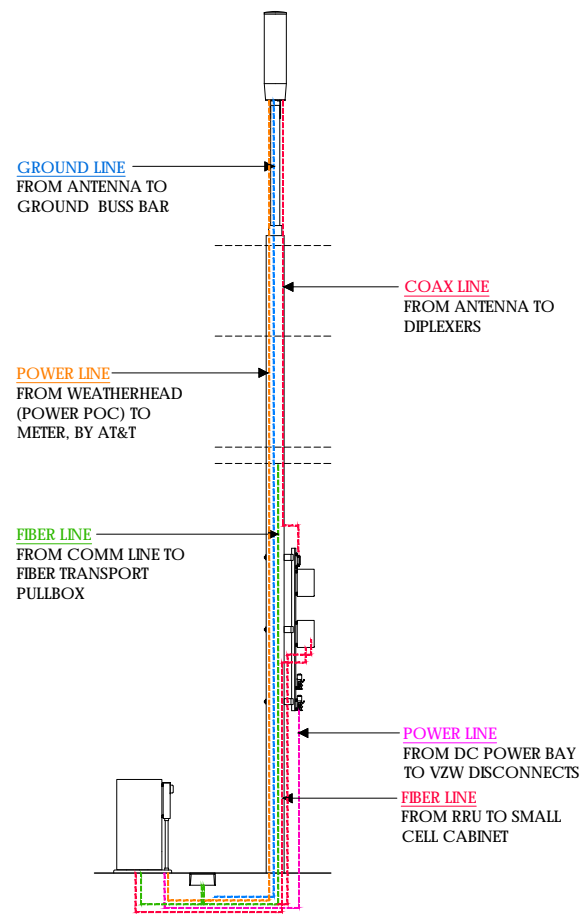
5



CANTENNA SHROUD AND BRACKET

1

PLUMBING DIAGRAM



CONDUIT RISER DIAGRAM

2



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 075
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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EQUIPMENT DETAILS
PLUMBING DIAGRAM

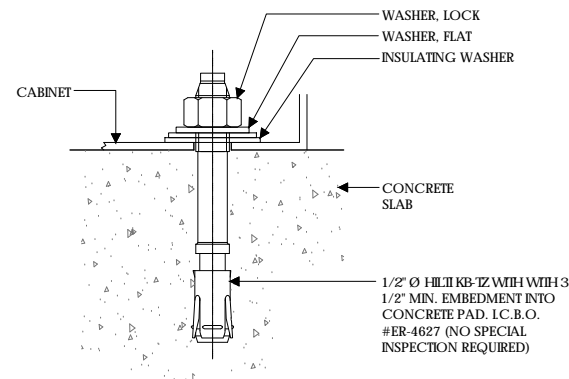
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Sheet No.:

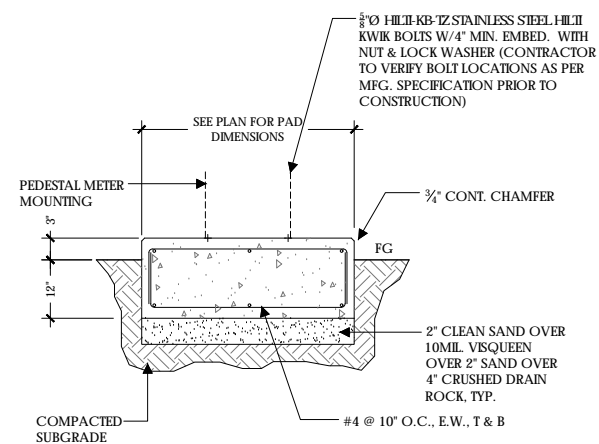
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3



CABINET ANCHORAGE

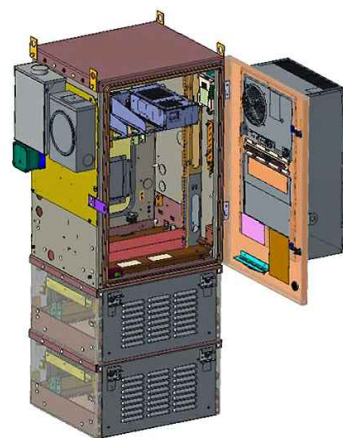
SCALE
N.T.S. **1**



CONCRETE PAD

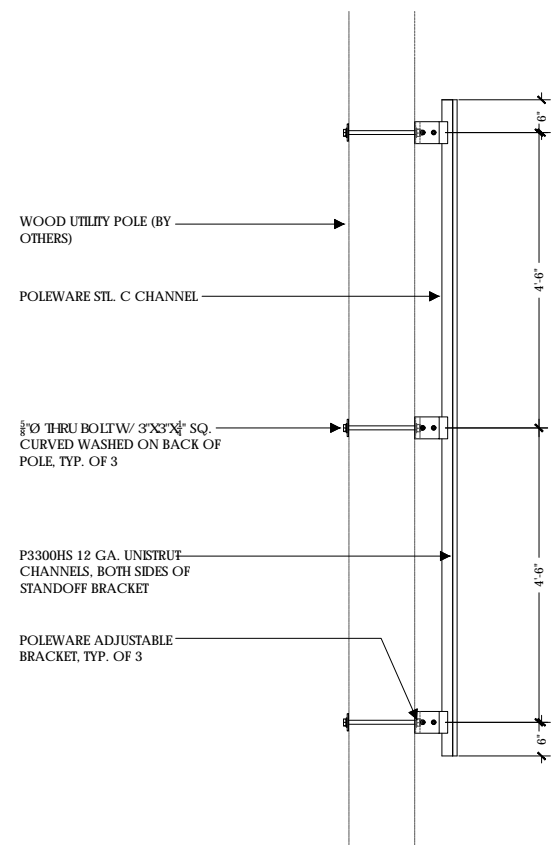
SCALE
NOT TO SCALE **2**

- UNIT: SMALL CELL CABINET
- HEIGHT: 61 INCHES
- WIDTH: 24 INCHES
- DEEP: 30 INCHES
- WEIGHT (FULLY LOADED): 300 LBS

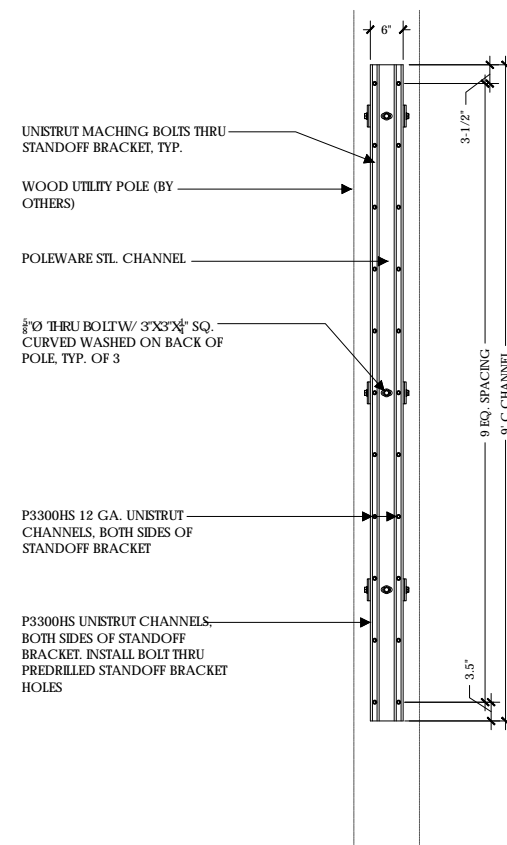


SMALL CELL CABINET

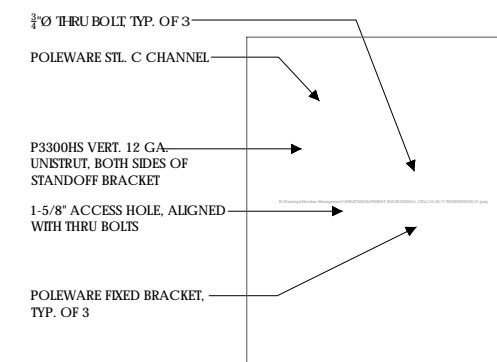
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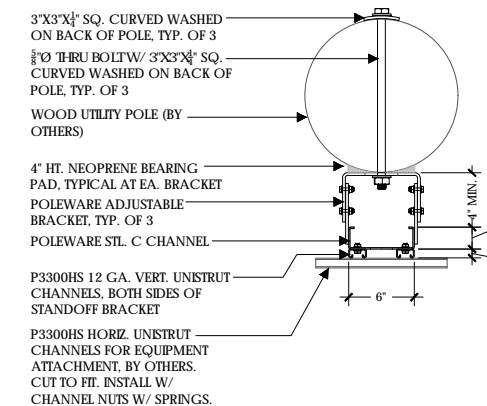
STANDOFF BRACKET SIDE ELEVATION



STANDOFF BRACKET FRONT ELEVATION



STANDOFF BRACKET ISO



STANDOFF BRACKET PLAN

NOTE:

- STANDOFF BRACKET MODEL #PW-SOB-09L-ADJ-SP AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
- ALL COMPONENTS TO BE SHOP PRIME PAINTED
- UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
- HORIZONTAL UNISTRUTS (P3300HS) FOR EQUIPMENT INSTALLATION NOT INCLUDED
- ADJUSTABLE BRACKETS FOR SLANTED POLES AVAILABLE BY SPECIAL ORDER



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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EQUIPMENT
DETAILS

Sheet Title:

A.8

Sheet No.:

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SMALL CELL CABINET

SCALE
NOT TO SCALE **3**

STANDOFF BRACKET

SCALE
NOT TO SCALE **4**

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction
Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

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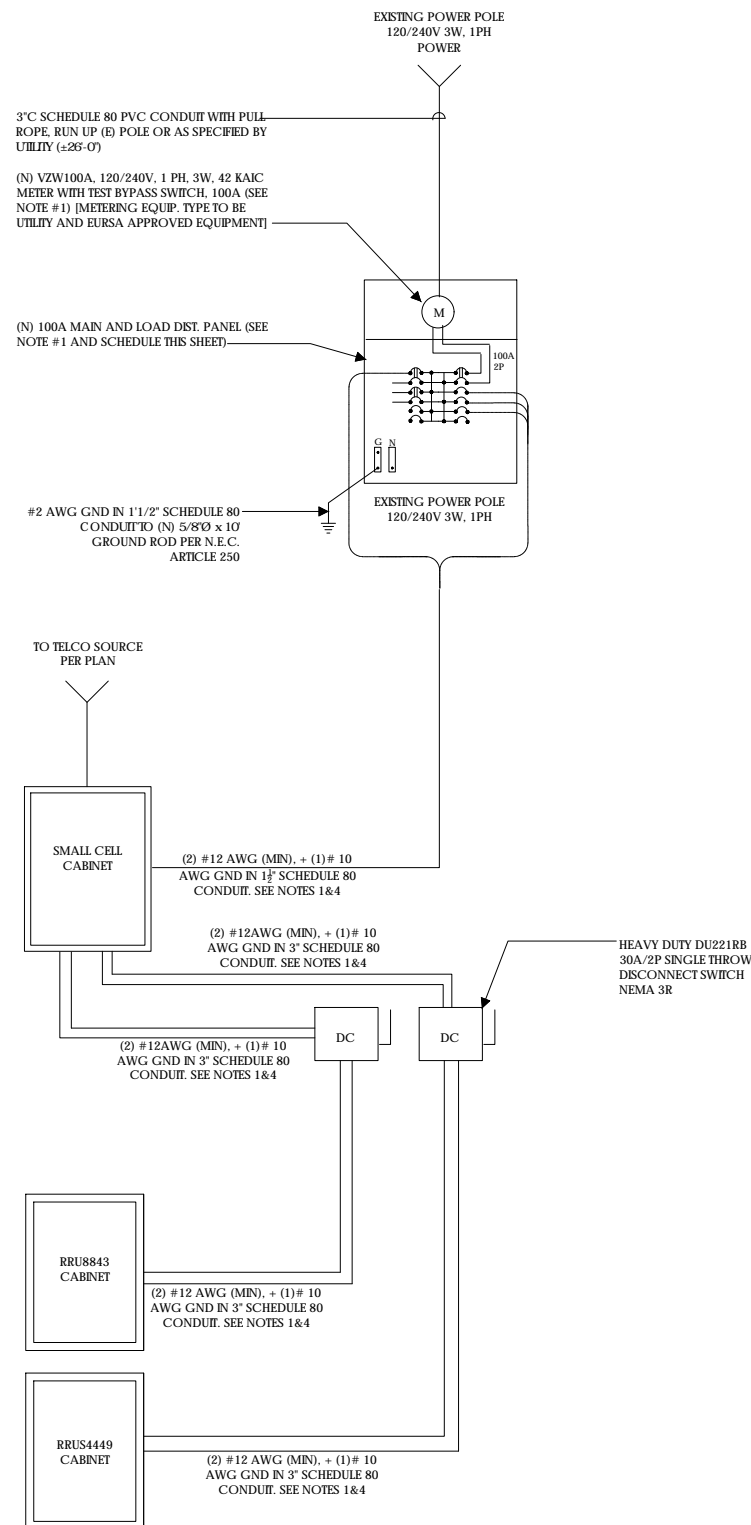
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SINGLE LINE DIAGRAM
BUSS DIAGRAM
PANEL SCHEDULE

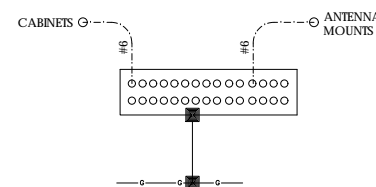
Sheet Title:

E.1

Sheet No.:



SINGLE LINE DIAGRAM



BUSS DIAGRAM

POWER AND TELCO NOTES:

1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

NOTES:

1. SUBCONTRACTOR SHALL PROVIDE DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/UTILITY CABINET.
2. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
3. SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
4. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

GENERAL ELECTRICAL NOTES:

1. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE 24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK, ERECT & MAINTAIN APPROVED & SUITABLE BARRIERS, PROTECTIVE DEVICES & WARNING SIGNS, BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS.
4. COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
5. ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.
6. FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY, VERIFY LOCATION FOR FACILITIES & DETAILS WITH POWER UTILITY, IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.
7. ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "THWN" OR "TWN".
8. PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.
9. UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, S/DUAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS, SWITCHES AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A 5 OHM OR LESS GROUNDING PATH, ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.

LOAD CALCULATIONS - VERIZON WIRELESS

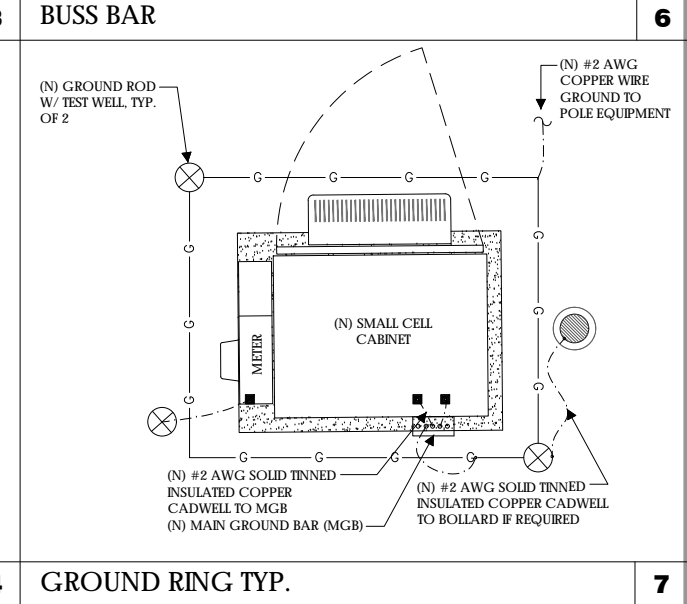
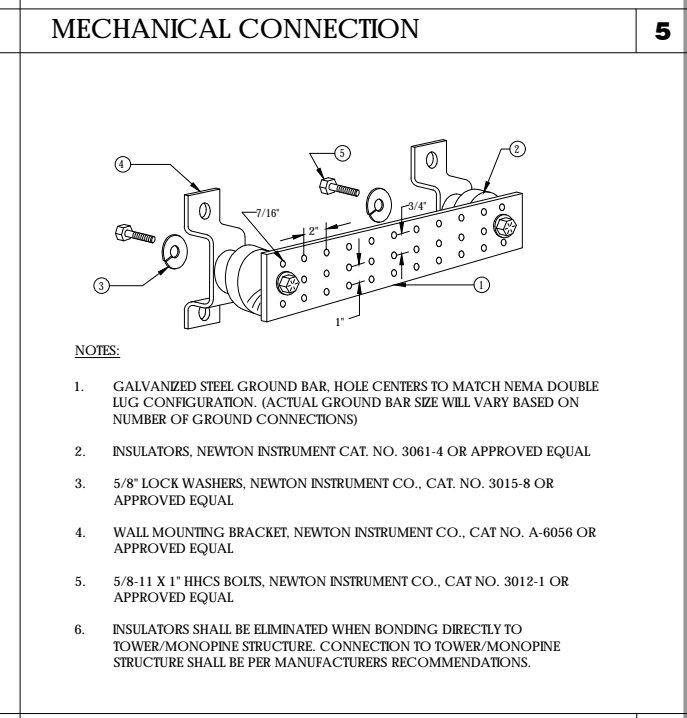
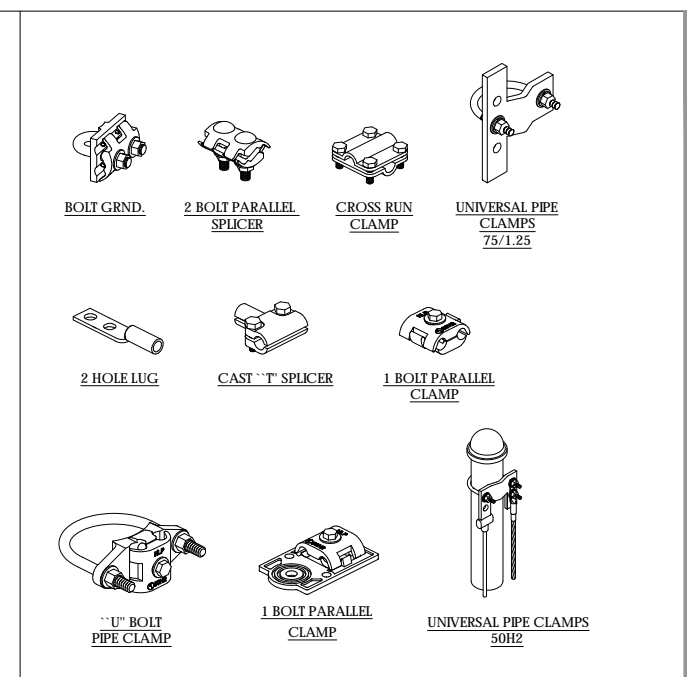
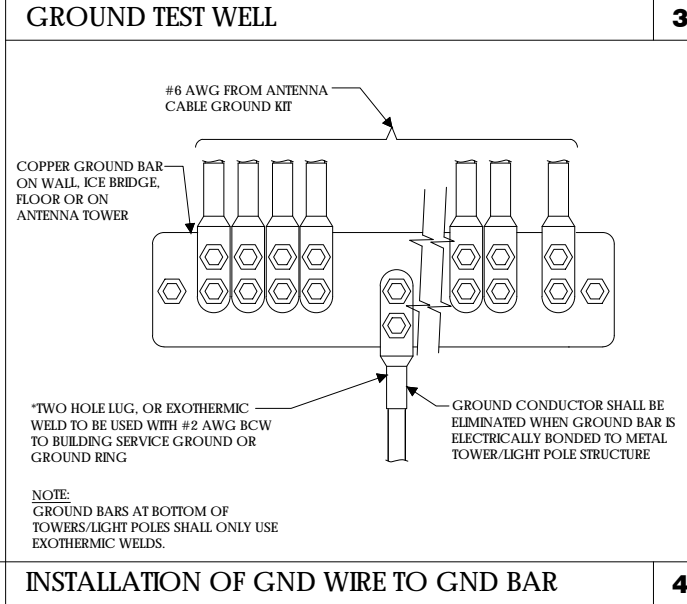
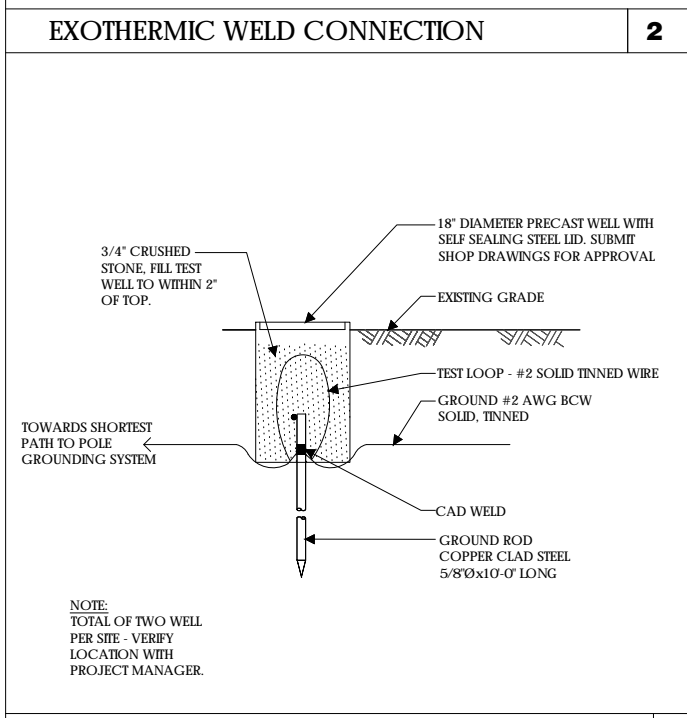
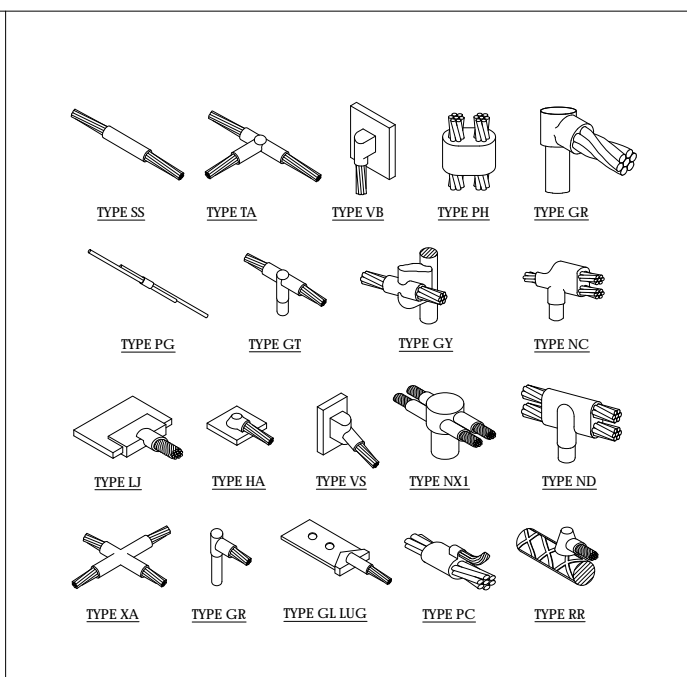
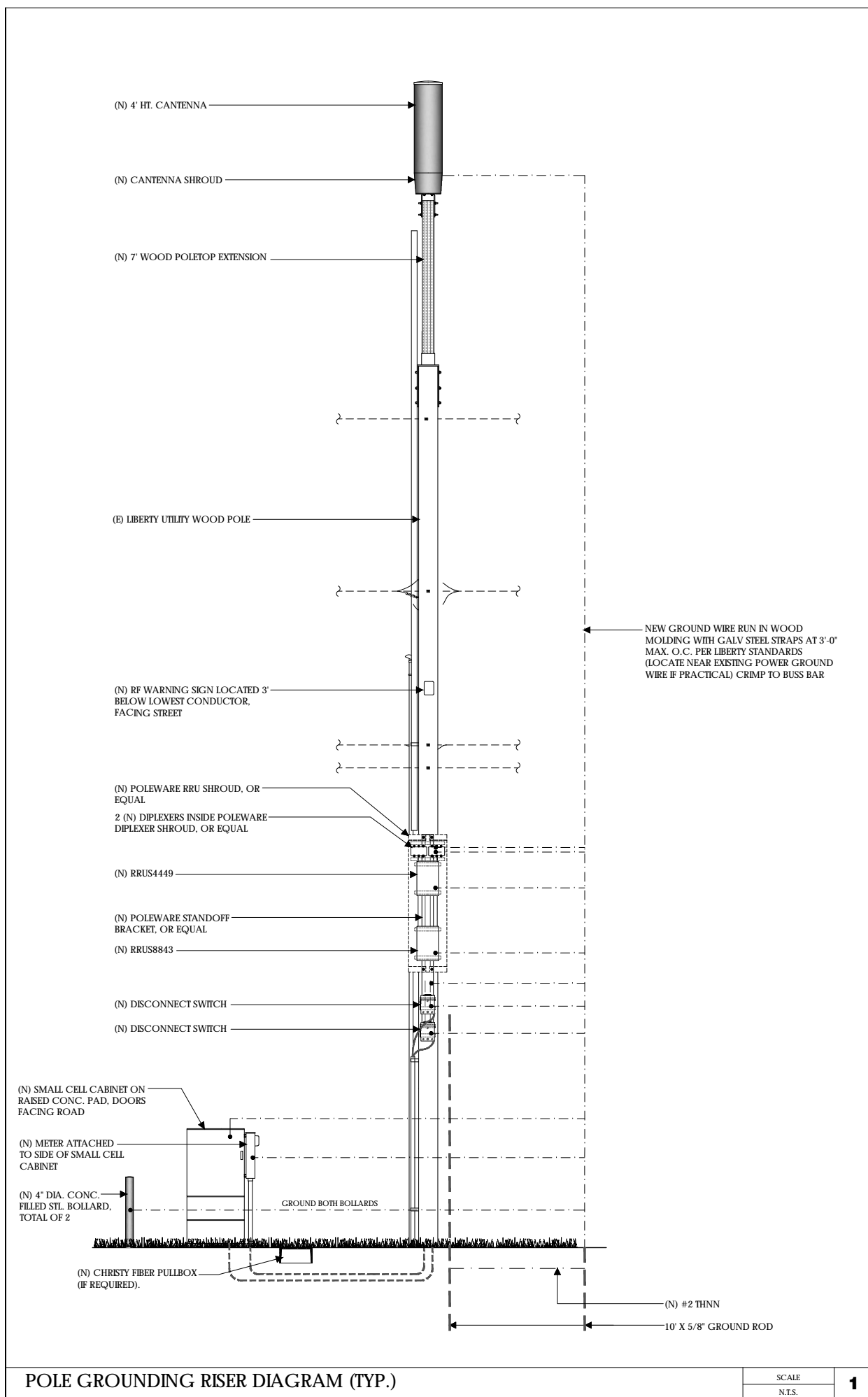
EXISTING LOAD:	0 AMPS
NEW LOAD:	17.9 AMPS MAX.
NEW TOTAL LOAD:	17.9 AMPS MAX.

POWER AND TELCO DESIGN IS BASED ON INITIAL SITE VISIT.

CONTRACTOR SHALL OBTAIN CURRENT UTILITY COORDINATOR PLANS PRIOR TO START OF CONSTRUCTION.

AVAILABLE FAULT CURRENT PER UTILITY.

NOTE: CONTRACTOR TO CHECK WITH UTILITY TO ENSURE ELEC. METER IS BRACED FOR ACTUAL FAULT CURRENT.



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World
222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 075**
PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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Project No.:

Date: 04/03/18 Job No.:

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Designed By: JG Checked: RB

GROUNDING PLAN ELECTRICAL DETAILS

Sheet Title:

E.2

Sheet No.:

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POLE GROUNDING RISER DIAGRAM (TYP.) SCALE N.T.S. 1

EXOTHERMIC WELD CONNECTION 2

MECHANICAL CONNECTION 5

GROUND TEST WELL 3

BUSS BAR 6

INSTALLATION OF GND WIRE TO GND BAR 4

GROUND RING TYP. 7

PLAN NOTES:

1. PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE-SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRM PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFIED BY THE AUTHORITY HAVING JURISDICTION.
2. EXTEND CHANNELIZATION DEVICES INTO SHOULDER WHERE APPLICABLE.
3. DISTANCES AS INDICATED IN TABLE 1 SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING. DISTANCES SUCH AS DOWNGRADES OR LIMITED SIGHT DISTANCES. DISTANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTIAL) AREAS WITH APPROVAL BY THE AUTHORITY HAVING JURISDICTION. NIGHT-TIME WORK IS PROHIBITED UNLESS IT IS REQUIRED AS A CONDITION OF APPROVAL BY THE HIGHWAY AND LOCAL AUTHORITY HAVING JURISDICTION.
4. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH.
5. MAINTAIN A MINIMUM LANE WIDTH OF 10'.

DOT NOTES:

1. WHEN LANE CLOSURE IS REQUIRED, THE TRAFFIC CONTROL PLAN SHOULD BE PROVIDED AND NOTARIZED BY AN INDIVIDUAL/COMPANY THAT HAS FLAGGER CONTROL TRAINING CERTIFICATION.
2. "BLUE-LIGHTS" (OFF-DUTY POLICE OFFICERS) WILL BE ON SITE FOR LANE CLOSURES AND IF REQUIRED.

LEGEND







-  CHANNELIZING DEVICE
-  SIGN
-  WORK SPACE
-  FLAGGER
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW SIGN (FAS)



TABLE 1

POSTED SPEED (MPH)	DISTANCE BETWEEN SIGNS			TAPER	BUFFER
	A	B	C	L (SEE NOTE)	
15	100'	100'	100'	45'	100'
20	100'	100'	100'	80'	115'
25	100'	100'	100'	125'	155'
30	200'	200'	200'	180'	200'
35	200'	200'	200'	245'	250'
40	350'	350'	350'	320'	305'
45	350'	350'	350'	540'	360'
50	500'	500'	500'	600'	425'
55	500'	500'	500'	660'	495'
60	500'	500'	500'	720'	570'
65	500'	500'	500'	780'	645'

- NOTES:**
- A) DISTANCES IN FEET UNLESS OTHERWISE NOTED.
 - B) CONTRACTOR TO VERIFY EXISTING SPEED LIMIT.
 - C) DISTANCES SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS. CONSULT STATE DOT MANUAL FOR DISTANCES.
 - D) ADJUST DISTANCES TO COMPLY WITH REQUIREMENT OF THE STATE OR LOCAL HIGHWAY AUTHORITY HAVING JURISDICTION. SEE NOTE 1, SHEET TC-2.
 - E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH.



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction Drawings

(B) LIGHT POLE
Drawing Phase:

SC SOUTH LAKE
TAHOE 075

PROW HIGH MEADOW TRAIL
(NEAR) 1751-1755 HIGH
MEADOW TRAIL SOUTH LAKE
TAHOE, CA 96150 PSL #481972

Site Name:

Professional Seal:

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Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

VEHICLE TRAFFIC CONTROL PLAN

Sheet Title:

TC.1

Sheet No.:

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SC SOUTH LAKE TAHOE 060

PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150

PSL #471233



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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TITLE SHEET

Sheet Title:

T.1

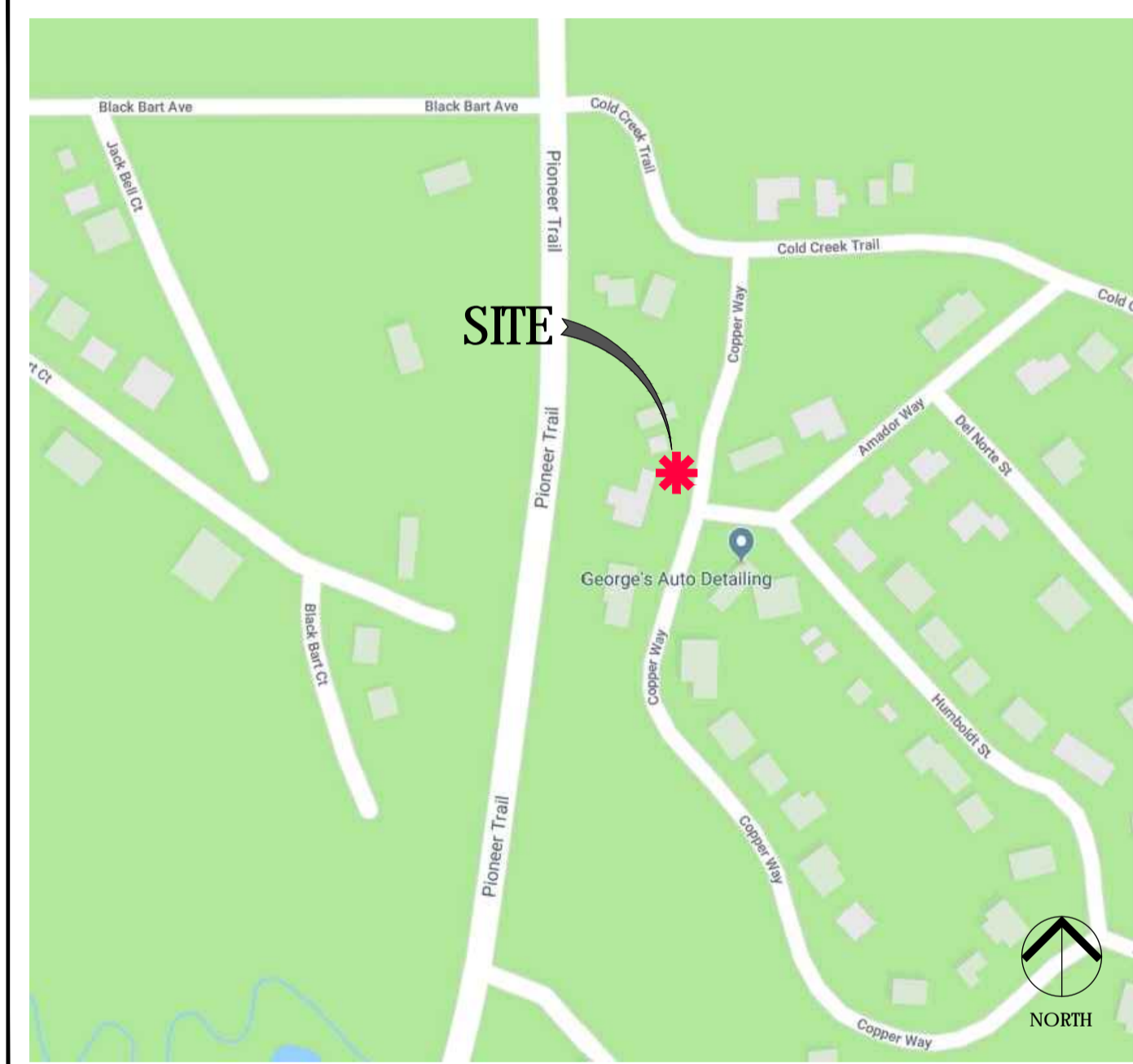
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SITE INFORMATION

PSL #: 471233
OWNER: LIBERTY UTILITIES
701 NATIONAL AVENUE
TAHOE VISTA, CA 96148
ERIC TROSKA
T 775-870-2469
M 775-870-2469
APPLICANT: VERIZON WIRELESS
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598
AGENT: EPIC WIRELESS
222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240
TEL: (916) 781-5921
APN ADJACENCY: (IFO) 025-452-051
SITE ADDRESS: PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
COUNTY: EL DORADO
ZONING: PUBLIC ROW
ZONING JURISDICTION: EL DORADO COUNTY
LAT: 38° 54' 42.39"
LONG: 119° 57' 39.01"
ELEVATION: +6537.9' AMSL

VICINITY MAP



PROJECT TEAM

AGENT

Epic Wireless Group, Inc.
222 W. Lockeford Street
Suite 9
Lodi, CA 95240
Tel: (916) 781-5921

CONSTRUCTION MANAGER: ROB HERNANDEZ

cell: 916.216.7931
email: rob.hernandez@epicwireless.net

LEASING & ZONING MGR: MARK LOBAUGH

cell: 916.203.4067
email: mark.lobaugh@epicwireless.net

ARCHITECT/ENGINEER

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
www.meridian.management

PROJECT MANAGER: RODNEY BARNES

cell: 707.592.5924
email: rodney@meridian.management

CLIENT

Verizon Wireless
2785 Mitchell Drive
Suite 9
Walnut Creek, CA 94598

HANDICAP REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH
CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24,
CHAPTER 11B, SECTION 1103B.

Exhibit E2

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE VERIZON WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING WOOD POLE IN THE PUBLIC RIGHT-OF-WAY.

SCOPE OF WORK

- INSTALL NEW TELECOMMUNICATIONS EQUIPMENT BOXES ON AN EXISTING 41.0' HT. WOOD POLE.
- ALL POLE-MOUNTED EQUIPMENT TO BE INSTALLED ON A GO95 COMPLIANT STANDOFF BRACKET.
- EQUIPMENT CONSISTS OF (1) CANTENNA ON 7' WOOD POLETOP EXTENSION, (1) RRU54449, (1) RRU58843, (2) DIPLEXERS, (2) DISCONNECT SWITCHES, (1) RRU SHROUD, (2) STL BOLLARDS, (1) GROUND-MOUNTED SMALL CELL CABINET, AND A POWER METER ON SIDE OF SMALL CELL CABINET.
- OVERHEAD POWER FROM TRANSFORMER.
- INSTALL POLE STEPS AS REQUIRED
- ALL POLE-MOUNTED EQUIPMENT INCLUDING CONDUIT RISERS TO BE INSTALLED MIN. 5" FROM POLE ON STANDOFF BRACKETS
- ALL EQUIPMENT TO BE PAINTED VALSPAR 'DEEP EARTH' COLOR.

DRAWING INDEX

SHEET NO:	SHEET TITLE
T.1	TITLE SHEET
C.1	SITE SURVEY
A.1	OVERALL SITE PLAN
A.2	POLE PLAN ENLARGEMENTS
A.3	ELEVATIONS
A.4	ELEVATIONS
A.5	EQUIPMENT DETAILS
A.6	EQUIPMENT DETAILS
A.7	EQUIPMENT DETAILS, PLUMBING DIAGRAM
A.8	EQUIPMENT DETAILS
E.1	SINGLE LINE DIAGRAM, BUSS DIAGRAM, PANEL SCHEDULE
E.2	POLE GROUNDING, ELECTRICAL DETAILS
TC.1	VEHICLE TRAFFIC CONTROL PLAN

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

CODE COMPLIANCE

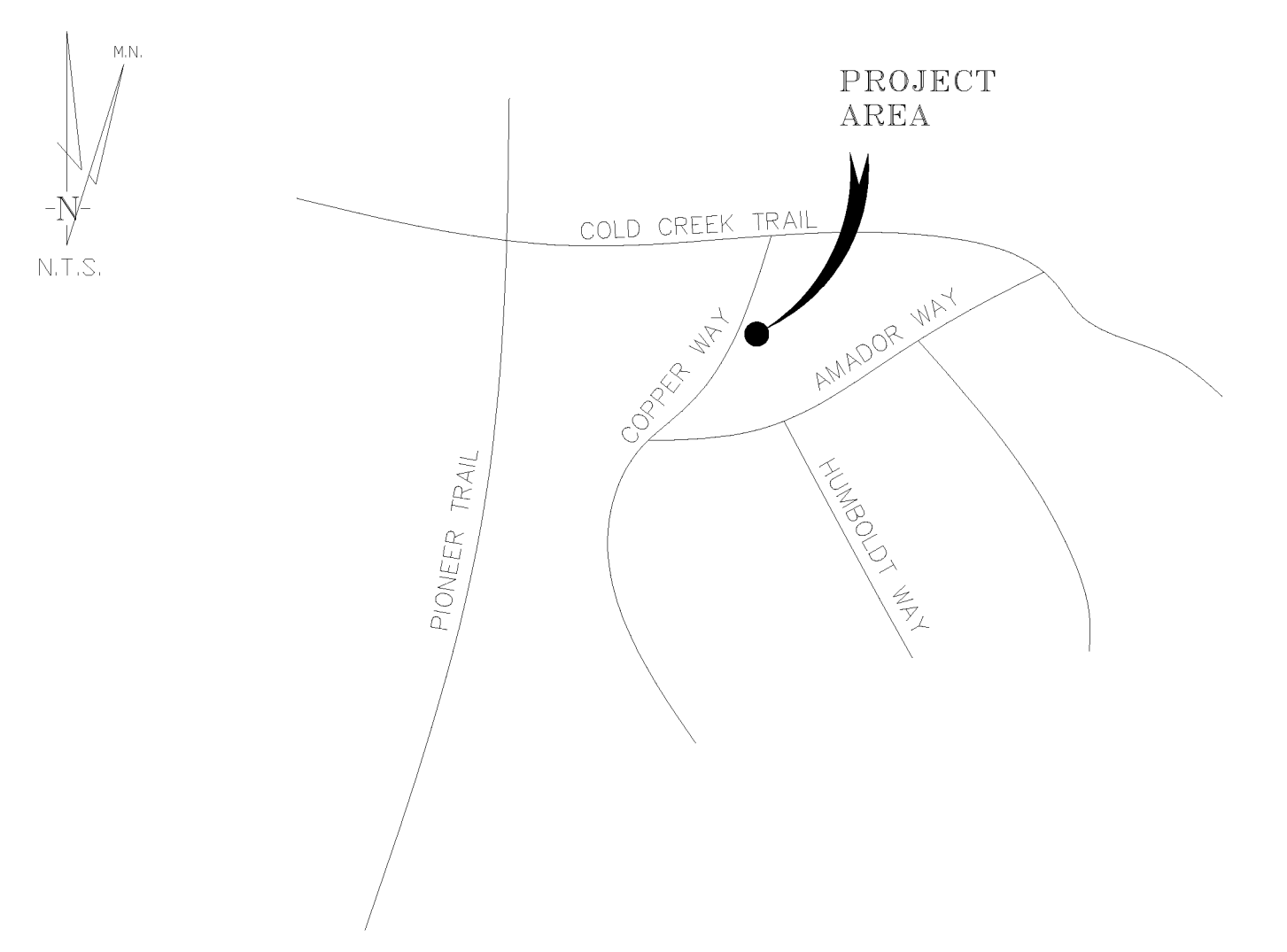
CONSTRUCTION WORKS AND MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:

- CALIFORNIA CODE OF REGULATIONS
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRIC CODE
- 2016 GREEN CODE
- 2016 EDITION OF TITLE 24 ENERGY STANDARDS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES
- 2016 CALIFORNIA FIRE CODES WITH ALL LOCAL AMENDMENTS
- GO 95 REGULATIONS

POLE IMAGE



- LEGEND**
- PARCEL BOUNDARY
 - NEIGHBORING PARCEL BOUNDARY
 - LEASE AREA BOUNDARY
 - UTILITIES
 - (E) EASEMENTS
 - (P) EASEMENTS
 - FENCE LINE
 - JP JOINT UTILITY POLE
 - TP TELEPHONE POLE
 - EP ELECTRICAL POLE
 - W WATER VALVE
 - W WATER BOX
 - SSMH SANITARY SEWER MANHOLE
 - SDMH STORM DRAIN MANHOLE
 - DI DROP INLET
 - 8" OAK TREE WITH DIAMETER BREAST HEIGHT (DBH)



SOUTH LAKE TAHOE, CA **VICINITY MAP**

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

DATE OF SURVEY: 02-22-18

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, RCE 14803
LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 4.16' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: N.A.

ASSESSOR'S PARCEL NUMBER: PUBLIC RIGHT OF WAY COPPER WAY

LANDLORD(S): LIBERTY UTILITIES
701 NATIONAL AVENUE
TAHOE VISTA, CA 96148

Project Name: SC South Lake Tahoe 060

Project Site Location: PROW Copper Way
South Lake Tahoe, CA
El Dorado County

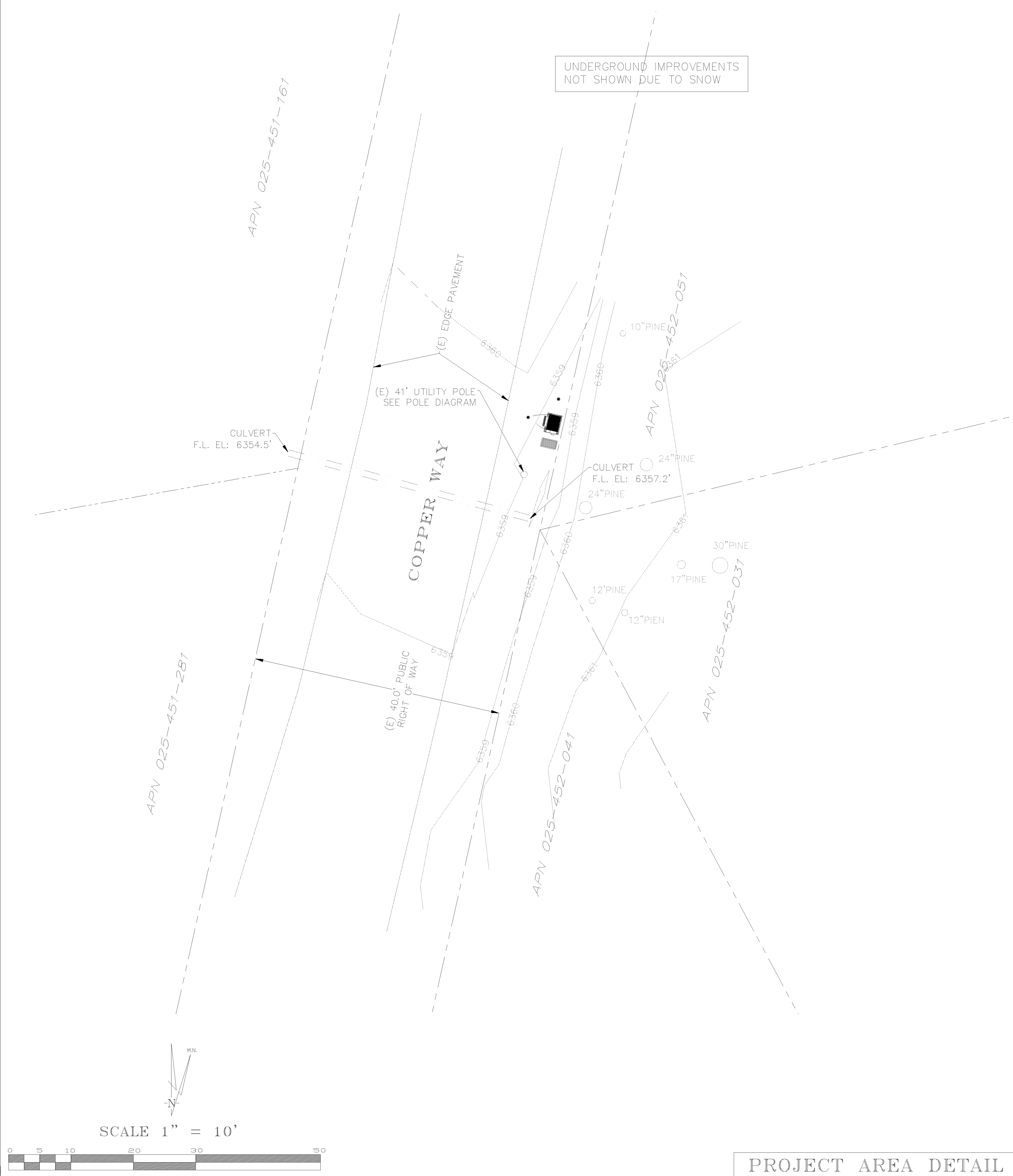
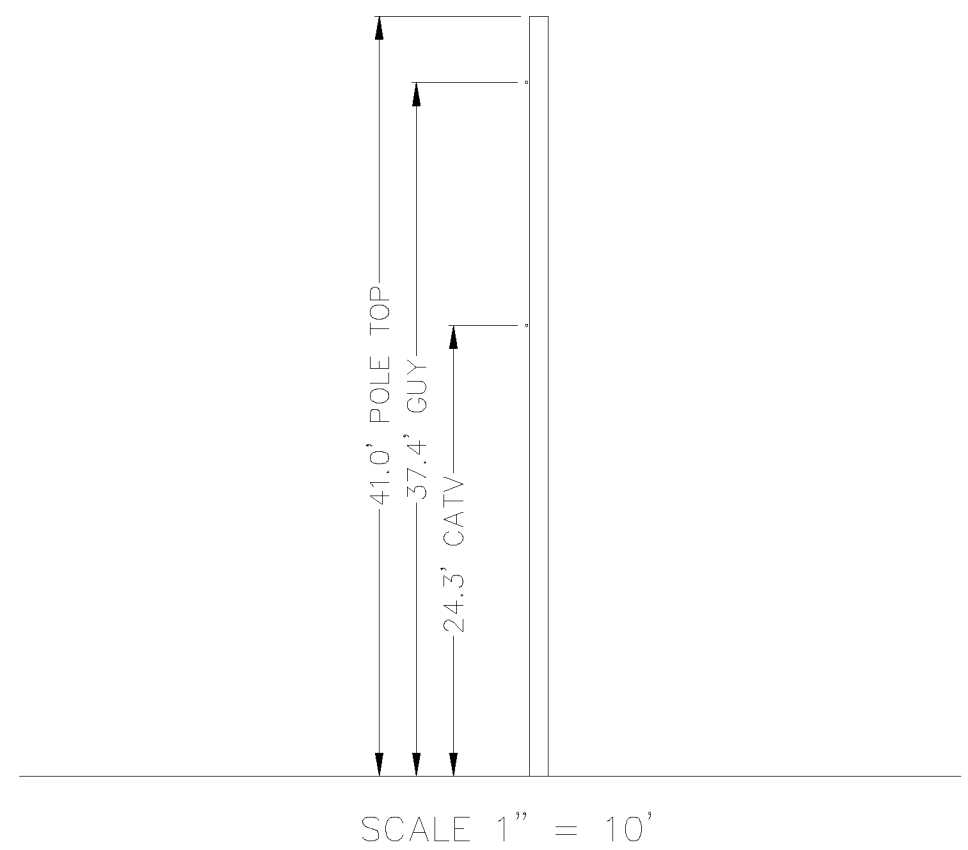
Date of Observation: 02-22-18

Equipment/Procedure Used to Obtain Coordinates: Trimble GeoXT
post processed with Pathfinder Office software.

Type of Antenna Mount: Existing Utility Pole

Coordinates:
Latitude: N 38°54'42.39" (NAD83) N 38°54'42.73" (NAD27)
Longitude: W 119°57'39.01" (NAD83) W 119°57'35.36" (NAD27)

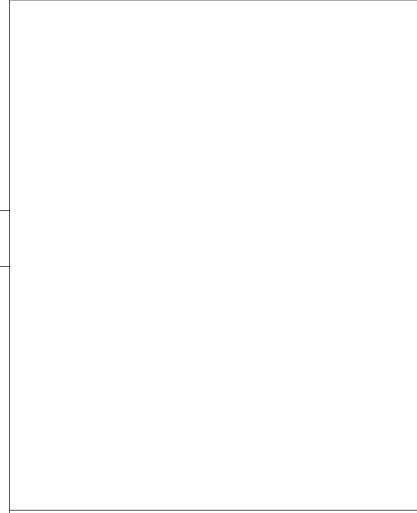
ELEVATION of Ground at Structure (NAVD88) 6357.9' AMSL
Height of Structure: 41.0' AGL



PROJECT AREA DETAIL

DEPT	APPROVED	DATE
A&C		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

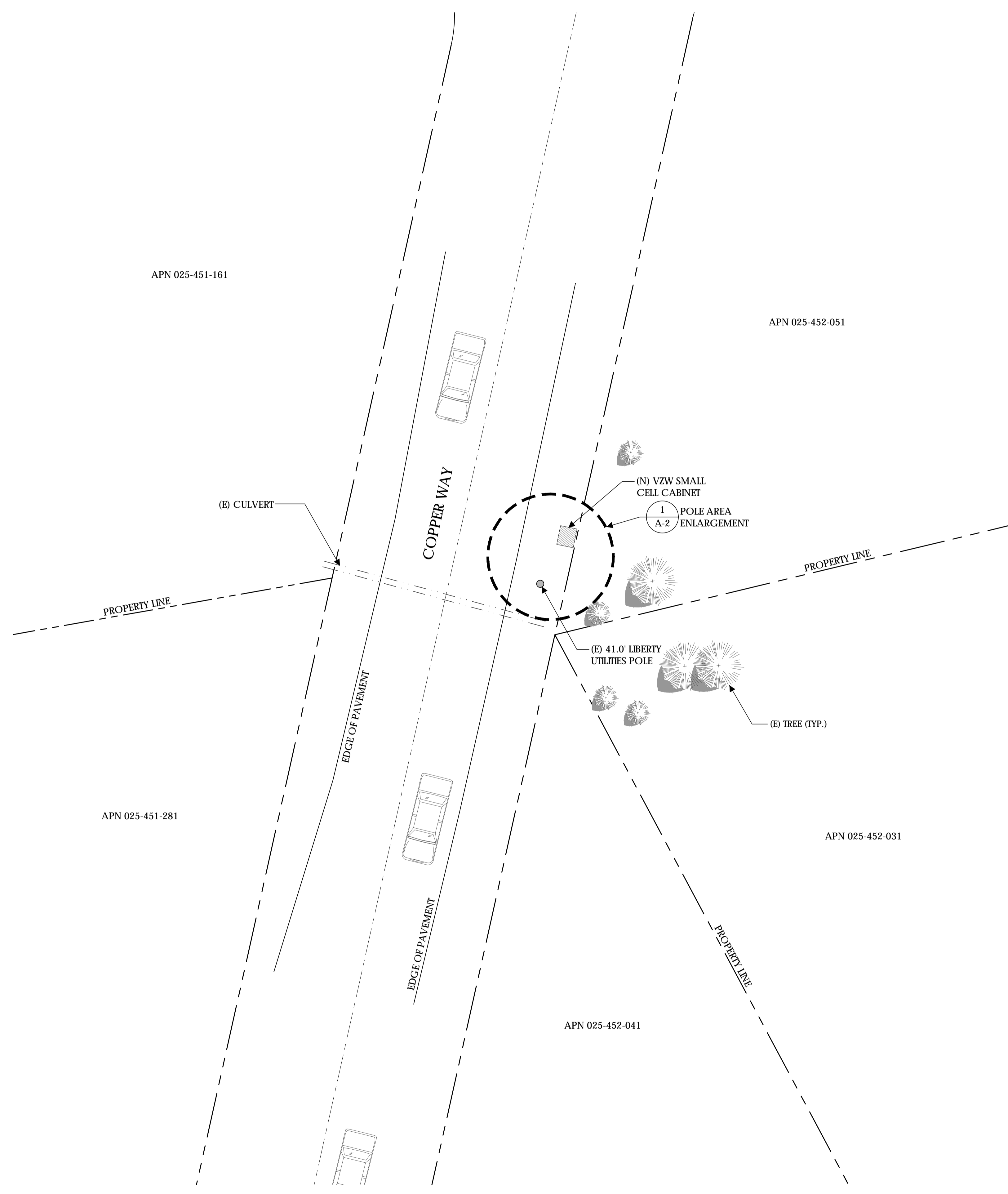
Surveyor
GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1220 HIGH STREET
AUBURN, CALIFORNIA 96608
PHONE: (530) 823-1300
FAX: (530) 823-1300



SC South Lake Tahoe
060
PROW Copper Way
South Lake Tahoe, CA
PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS	DATE	DESCRIPTION
02-25-18		Preliminary Drawing

NO.	DATE	DESCRIPTION



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



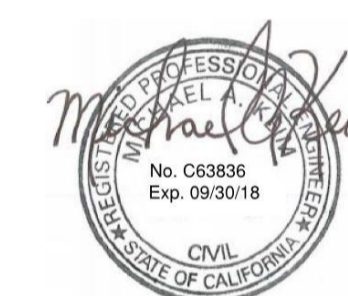
Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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Rev.	Date	Description
01	03/27/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

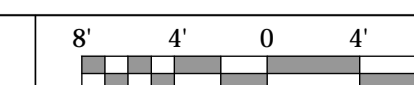
OVERALL SITE
PLAN

Sheet Title:

A.1

Sheet No.:

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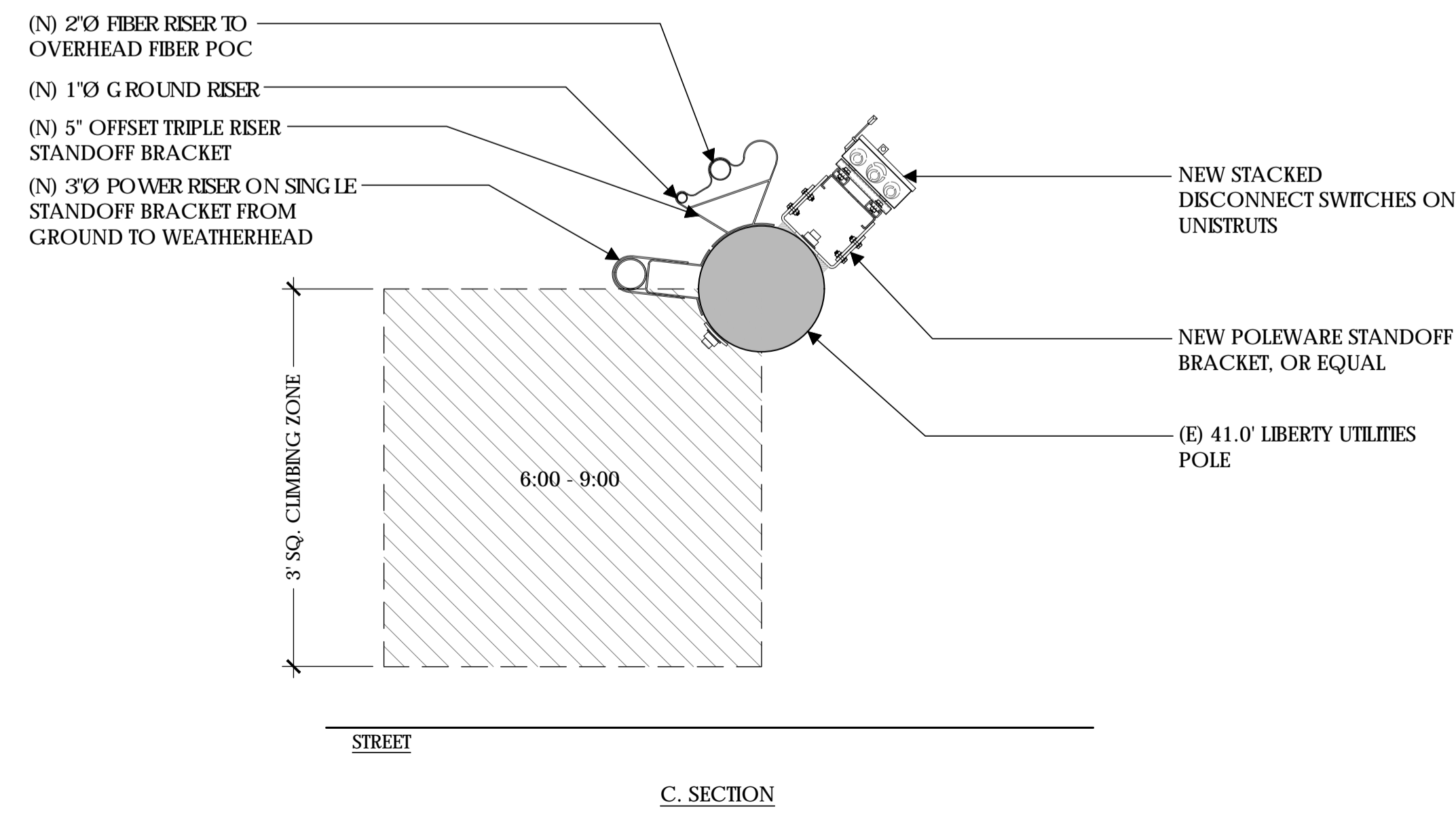
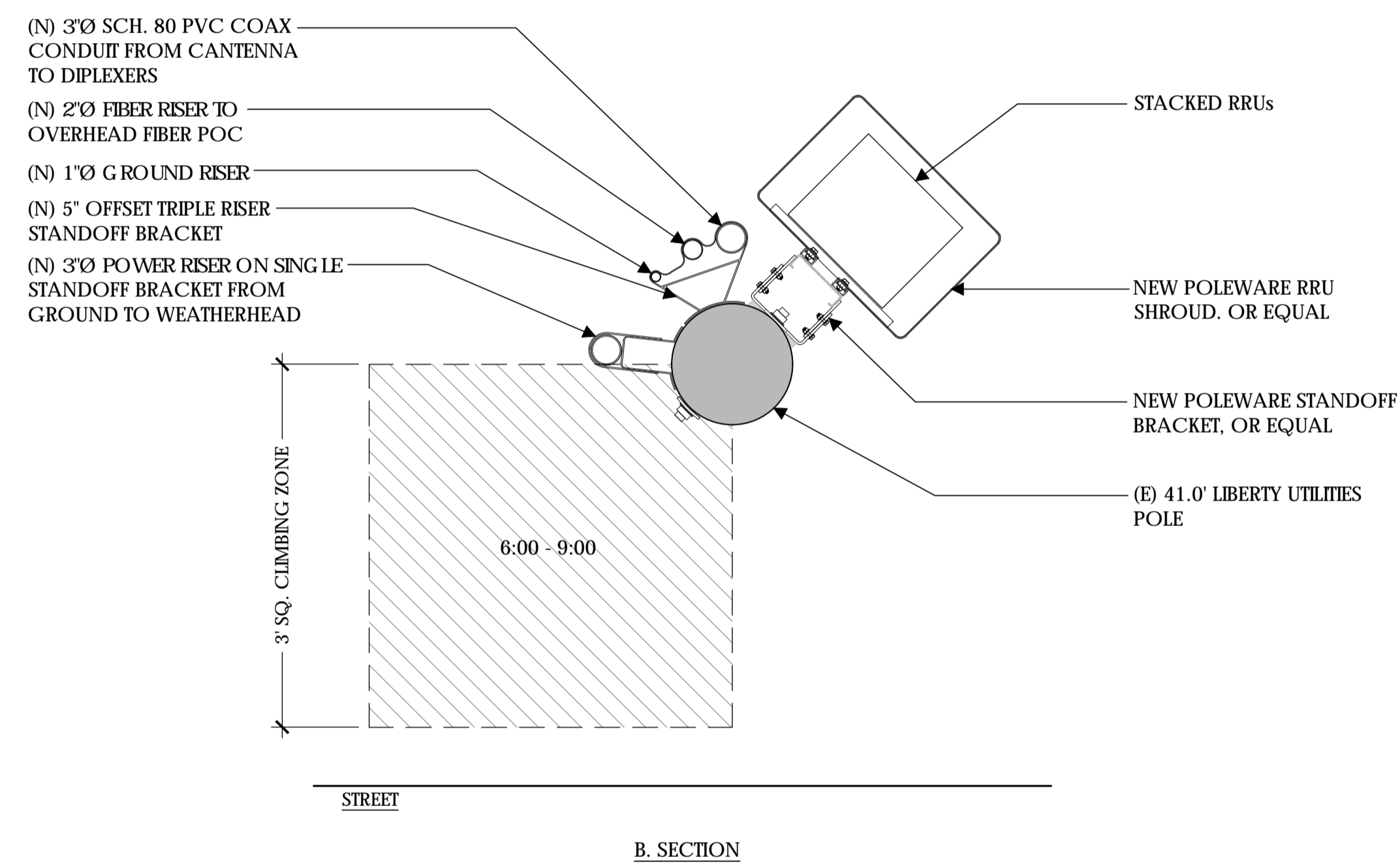
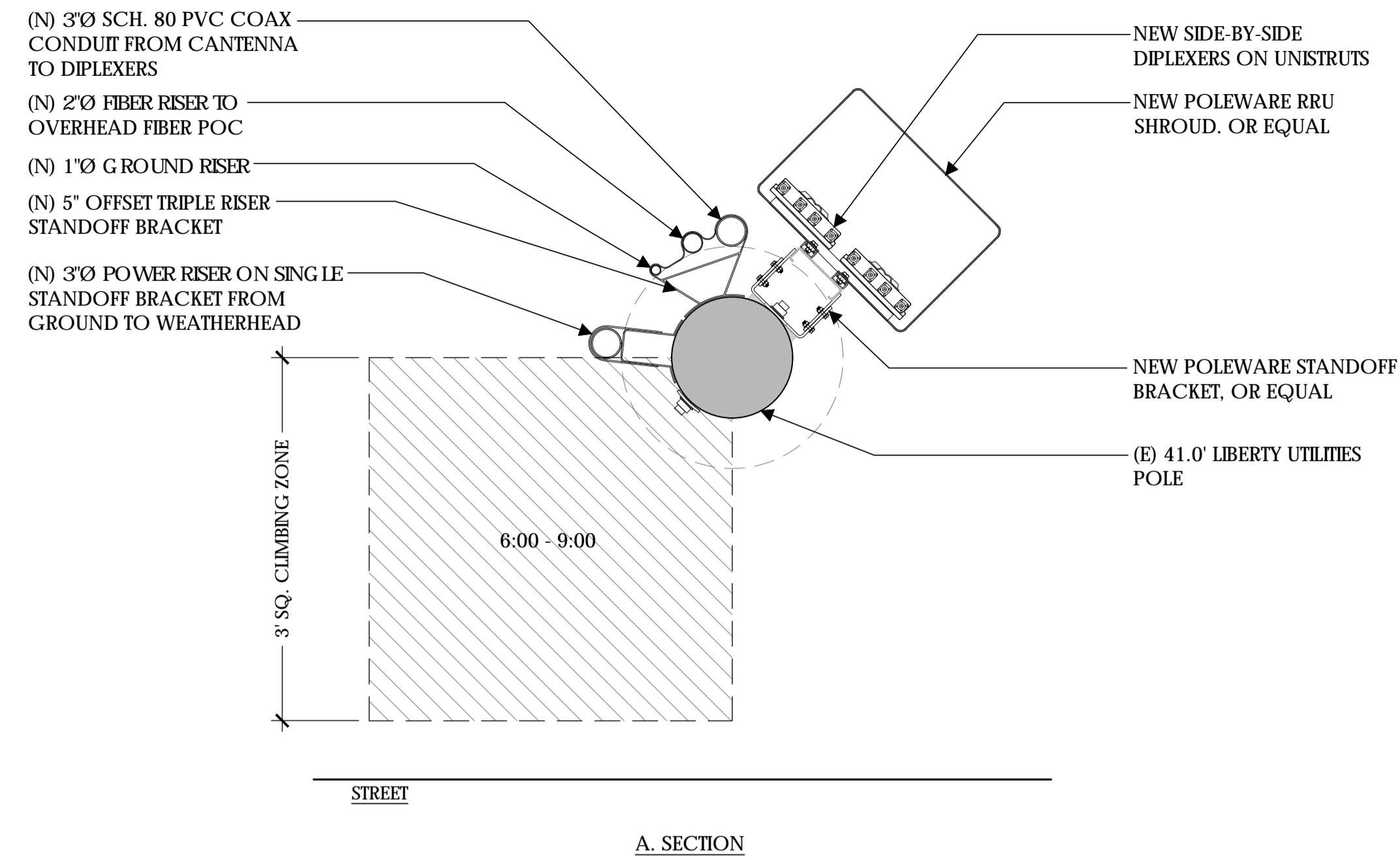
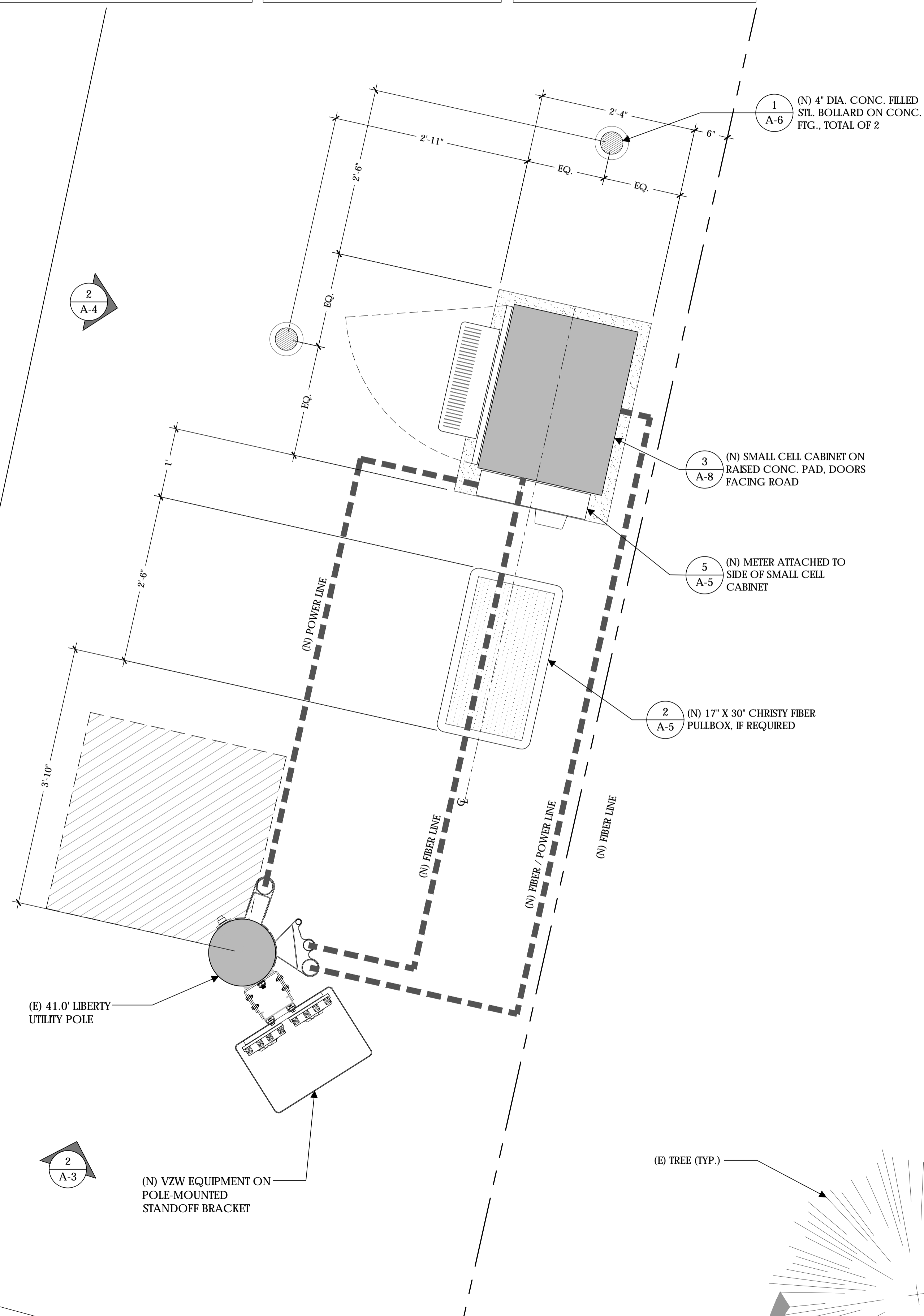


(N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 1:30 ORIENTATION RELATIVE TO THE STREET. CLIMBING SPACE IS BETWEEN 6:00 AND 9:00. POLE STEPS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE. SEE CONDUIT RISER DETAIL FOR LAYOUT OF RISERS

EQUIPMENT SYSTEM:
ALL NEW COMPONENTS NOT SHOP PAINTED SHOULD BE FIELD PAINTED VALSPAR 'DEEP EARTH' COLOR

NEW CONDUIT FOR POWER/TELCO:
(1) 3" CONDUIT FOR POWER
(1) 2" CONDUIT FOR FIBER
(1) 3" CONDUIT FOR COAX
(1) 1" CONDUIT FOR GROUND

COPPER WAY



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:

MM Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridian.management

Project Architect:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World
222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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Rev.	Date	Description
01	03/27/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

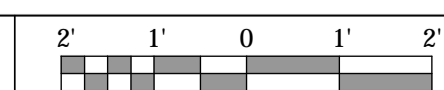
PLAN ENLARGEMENT
POLE PLAN
ENLARGEMENTS

Sheet Title:

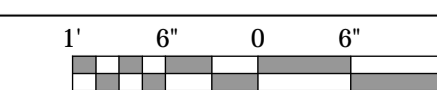
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Sheet No.:

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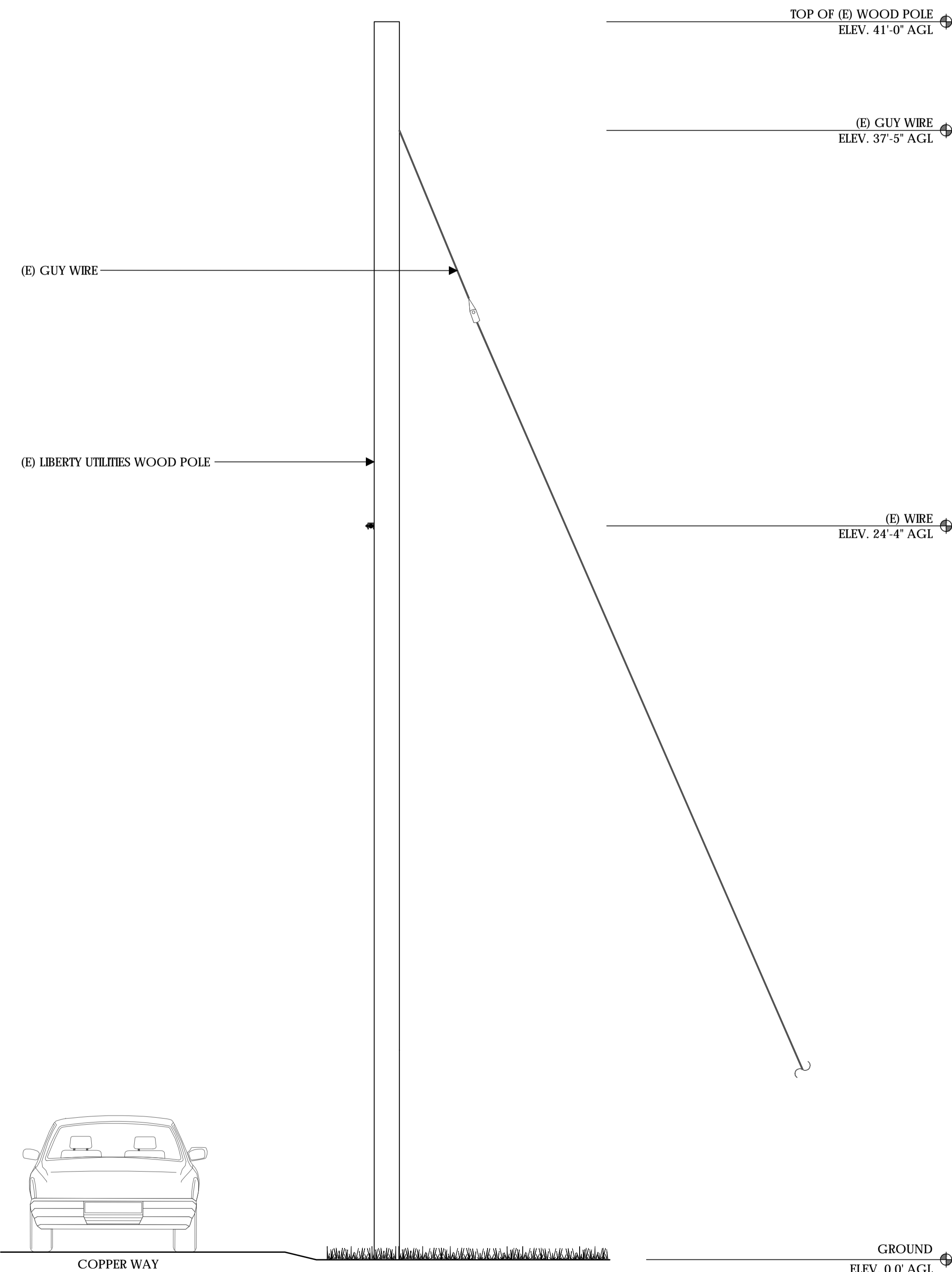
SCALE
1/2" = 1'-0"



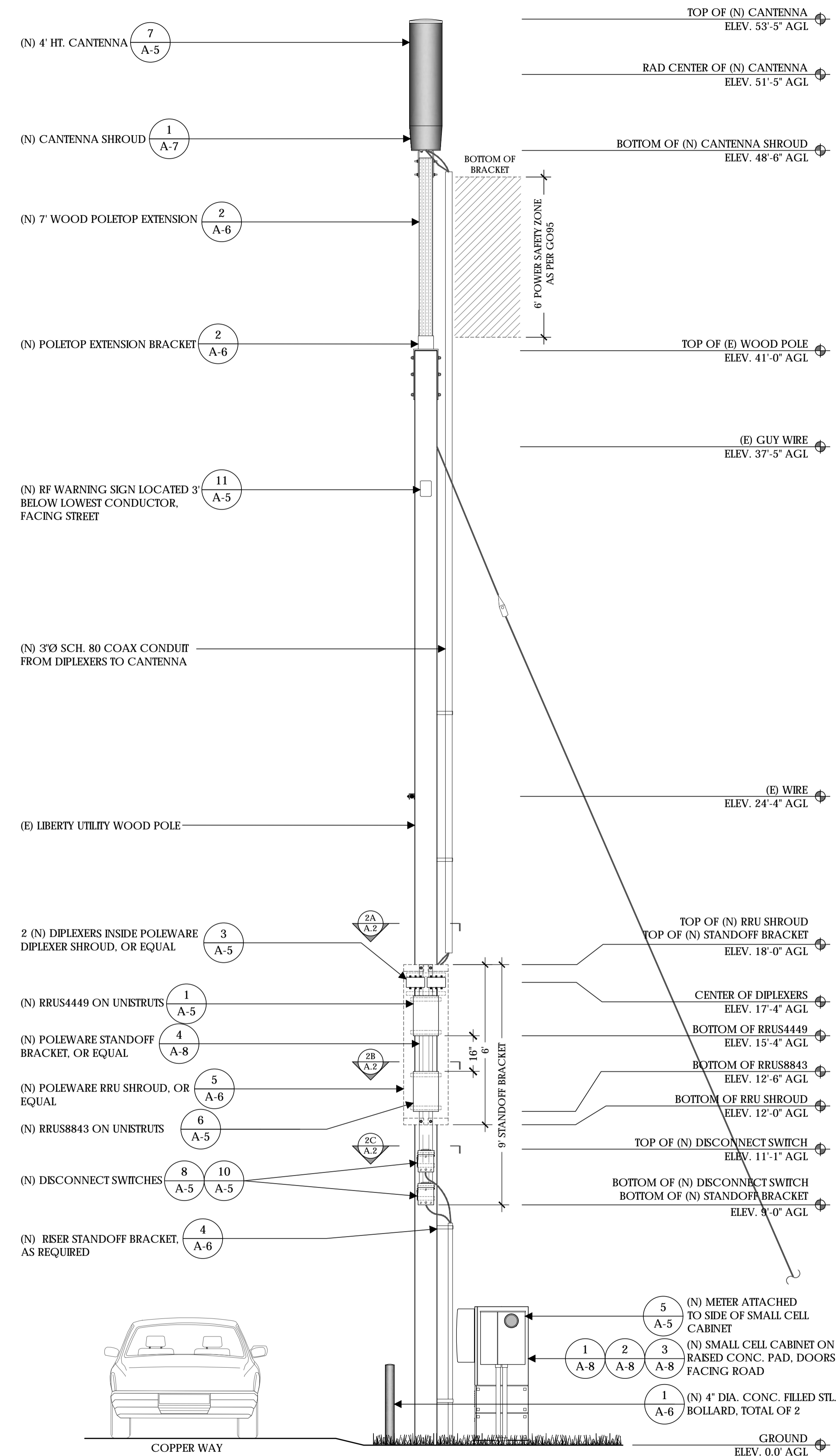
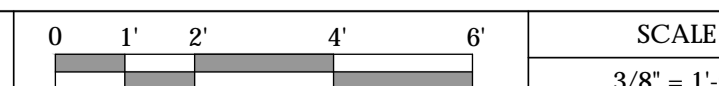
SCALE
1" = 1'-0"

MAKE READY NOTES

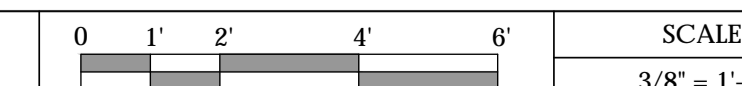
1. ALL LIBERTY SITE SPECIFIC MAKE READY IMPROVEMENTS TO BE COMPLETED PRIOR TO VERIZON INSTALLATION.
2. ALL RISER LOCATIONS SHOWN ON PLANS TO BE VERIFIED BY LIBERTY PRIOR TO INSTALLATION.
3. ANY CONFLICTS WITH PROPER RISER INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF VZW PRIOR TO CONSTRUCTION.



SOUTHWEST ELEVATION - EXISTING



SOUTHWEST ELEVATION - PROPOSED



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



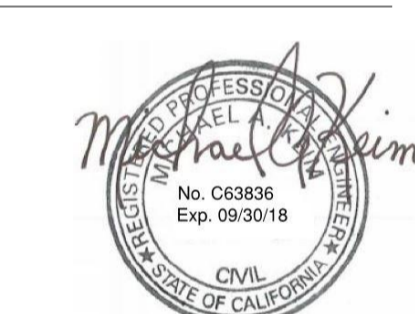
Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 060**
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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Rev.	Date	Description
01	03/27/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

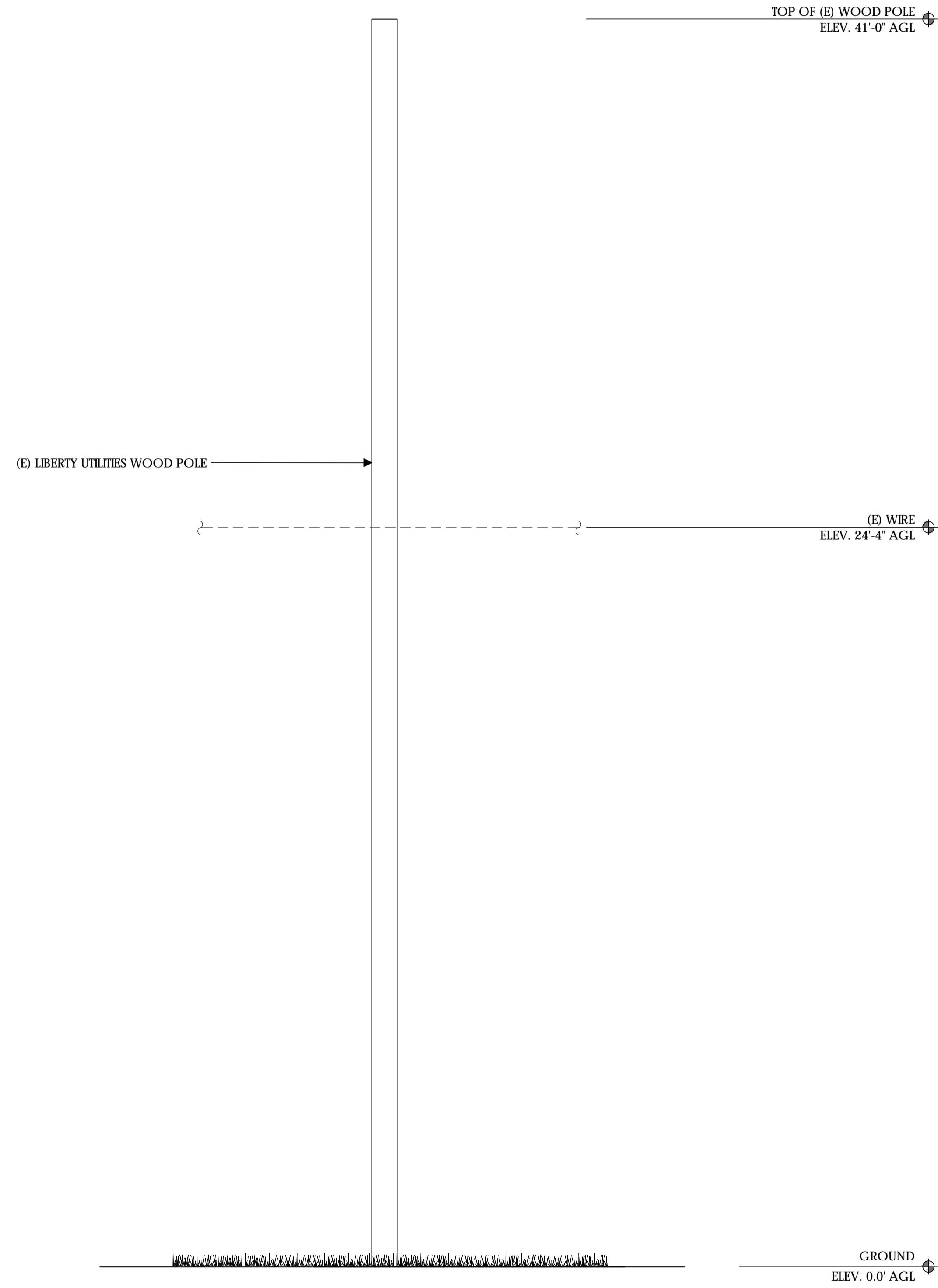
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A.3

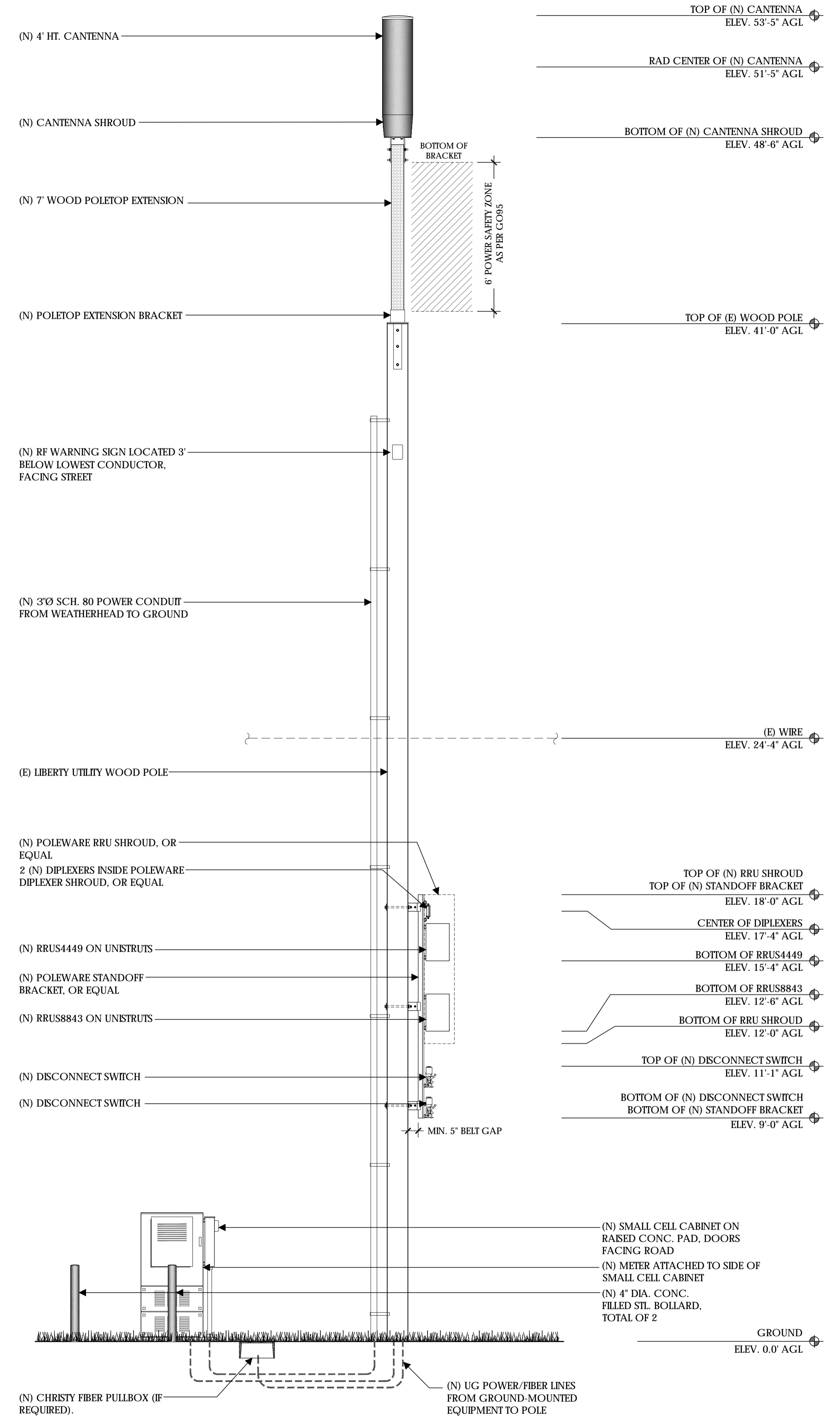
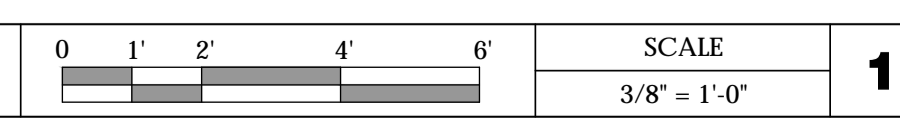
Sheet No.:

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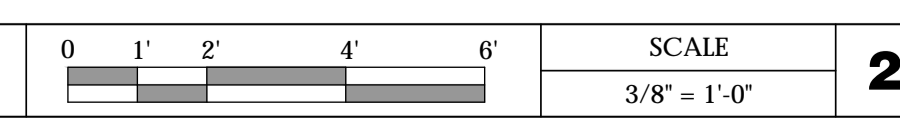
- NOTES:**
- (N) VERIZON EQUIPMENT TO BE MOUNTED IN THE 1:30 QUADRANT.
 - PROVIDE POLE STEPS AS REQUIRED FROM 8.5' TO COMMUNICATIONS ZONE. STEPS SHOULD BE USABLE WHEN INSTALLED WITHIN CLIMBING SPACE.
 - VALSPAR 'DEEP EARTH' COLOR
 - COORDINATE MAKE-READY WORK WITH LIBERTY. WORK PROVIDED BY OTHERS



NORTHWEST ELEVATION - EXISTING



NORTHWEST ELEVATION - PROPOSED



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridian.management

Project Architect:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World
222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

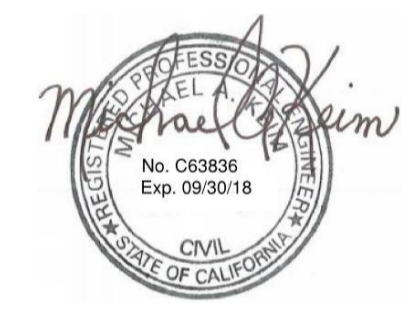
Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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01	03/27/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

Sheet Title:

A.4

Sheet No.:

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UNIT: ERICSSON RRUS4449 B5 B13 W/
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

LENGTH: 9.4 INCHES

WEIGHT: 70 LBS (EXCLUDES MOUNTING HARDWARE)



UNIT: ERICSSON RRUS8843 W/
PROTRUDING ITEMS

HEIGHT: 18 INCHES

WIDTH: 13.2 INCHES

DEPTH: 11.3 INCHES

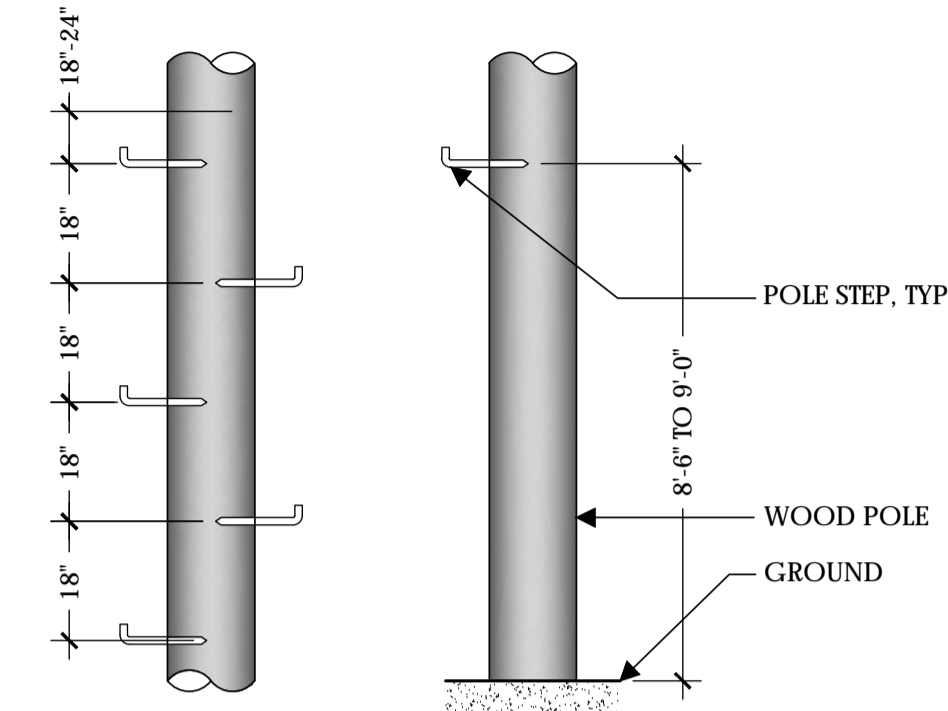
WEIGHT: 75 LBS



STEP:
WEIGHT PER 100:
MANUFACTURER:
MODEL #:
DESCRIPTION:

POLE 1/2 X 10 INCH GALVANIZED
99 LBS
AERIAL SERVICE COMPANY, INC.
1-800-256-5186
http://www.linemen-tools.com/
J1118

POLE STEPS ARE USED ON WOOD POLES WHERE
FREQUENT ACCESS TO POLE MOUNTED EQUIPMENT
IS REQUIRED. FLAT DRIVING SURFACE AND SHARP
POINT EASE INSTALLATION. FETER DRIVE THREAD
PERMITS REMOVAL WITH A WRENCH. HOT-DIPPED
GALVANIZED FOR CORROSION RESISTANCE.
NOTCHED MARK ON STEP INDICATES PROPER
DRIVING DEPTH.

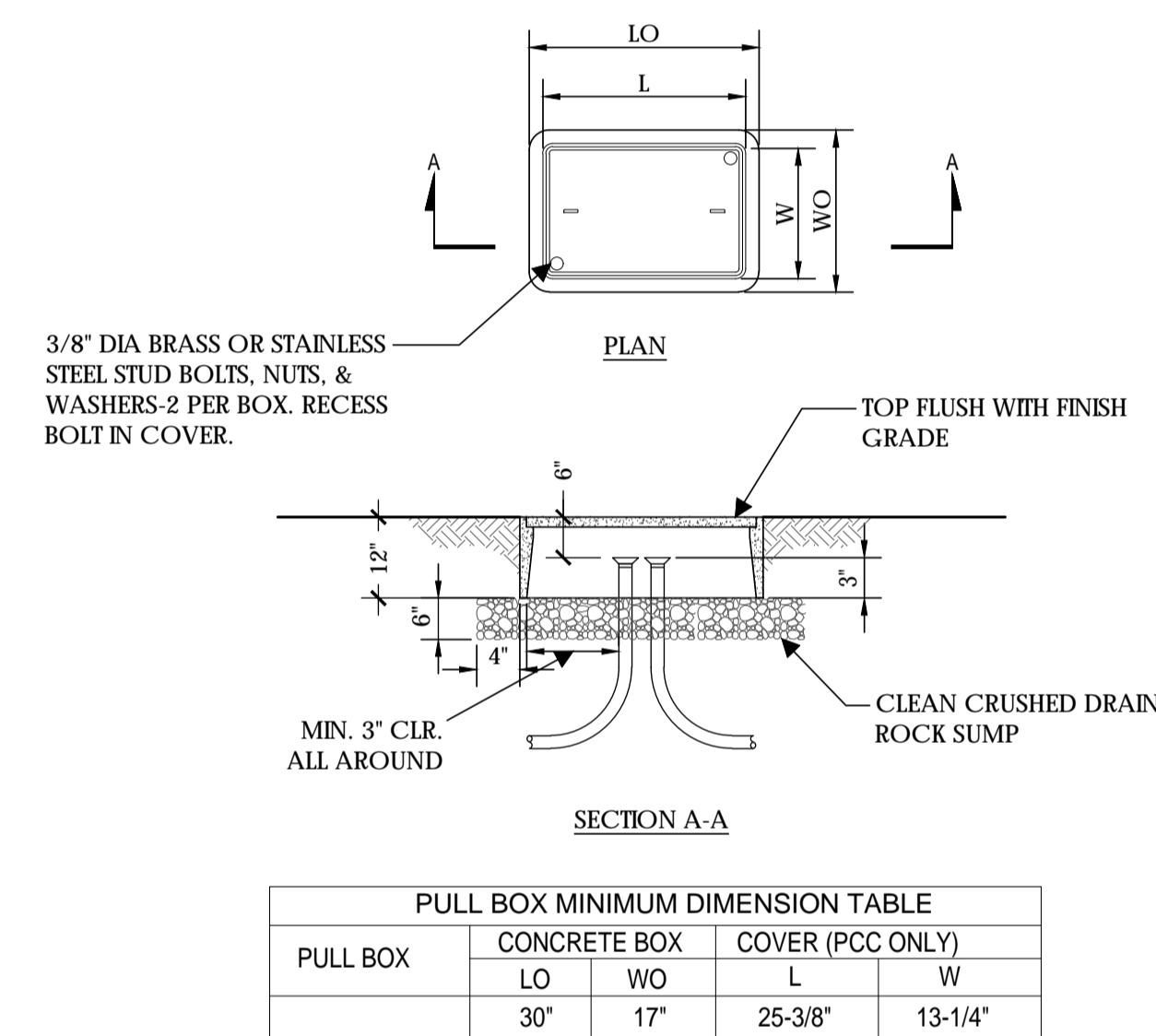


RRUS4449

1 RRUS8843

6 POLE STEPS

9



FIBER TRANSPORT PULL BOX

2 NOT USED

4 CANTENNA

7 DISCONNECT SWITCH

SCALE
NOT TO SCALE 10



HEIGHT: 8.31 INCHES

WIDTH: 2.48 INCHES

DEPTH: 7.0 INCHES

WEIGHT: 4.4 LBS

* OR APPROVED EQUAL

UNIT: 100 AMP METER W/ TEST
BYPASS

HEIGHT: 24 INCHES

WIDTH: 12 INCHES

DEPTH: 4-5/8 INCHES

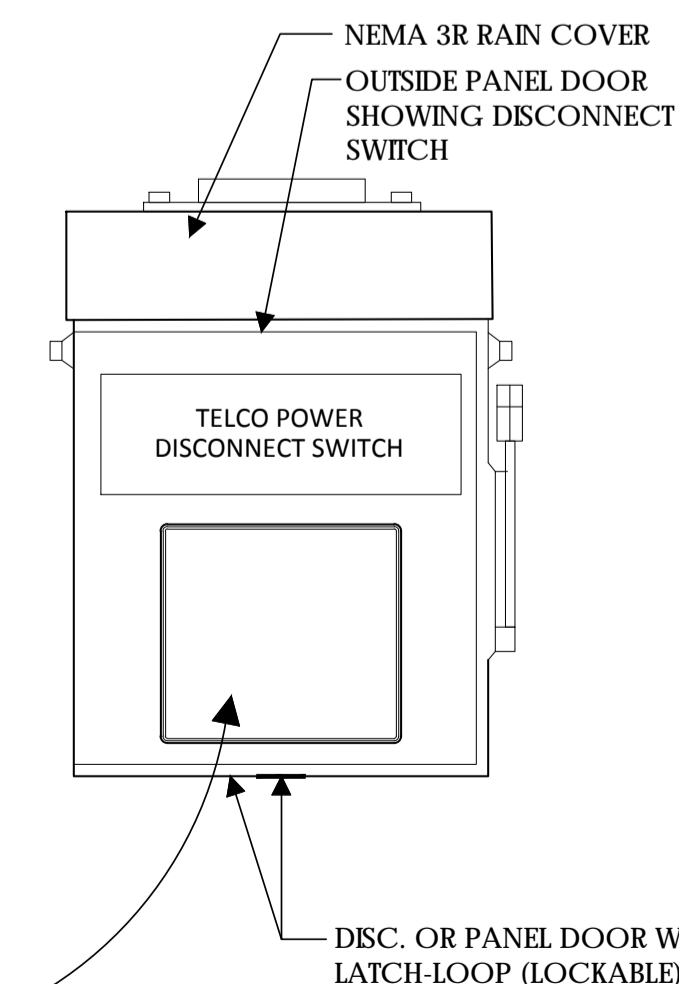


NOTE:
NEW PHENOLIC SIGN ATTACHED
TO EXTERIOR PANEL

- NORMAL SHUT-DOWN PROTOCOLS:**
1. Call 800-264-6620 NOC 24 HRS prior to schedule a shutdown day and time.
 2. Give NOC the Node number _____.
 3. On scheduled day of shutdown, pull the disconnect handle to the "OFF" position.
 4. Call NOC when work is completed.

- EMERGENCY SHUT-DOWN PROTOCOLS:**
1. Call 800-264-6620 NOC immediately.
 2. Give NOC the Node number _____.
 3. Pull the disconnect handle to the "OFF" position.
 4. Call NOC when work is completed.

CONTRACTOR NOTE:
SITE ID WILL BE SITE ID, MARKET ID,
SITE #, AND SITE NAME



ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE 3'
BELOW ANTENNA

SIGN PLACEMENT:
AFFIX TO THE STRUCTURE 3'-4' BELOW THE COMMERCIAL RF ANTENNA(S) OR
3' BELOW LOWEST POWER WIRE

SIGN COLOR: YELLOW

CONTRACTOR NOTE:
SITE ID WILL BE SITE ID, MARKET ID, SITE #, AND SITE NAME

DIPLEXER

3 METER

5 DISCONNECT SIGNAGE

8 RF WARNING SIGNAGE

11

verizon

Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridian.management

Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
LODI, CA 95240

Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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of a licensed Professional
Architect/Engineer, to alter this document.

Rev.	Date	Description
01	03/27/18	Constr. Dwgs 90%
02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT
DETAILS

Sheet Title:

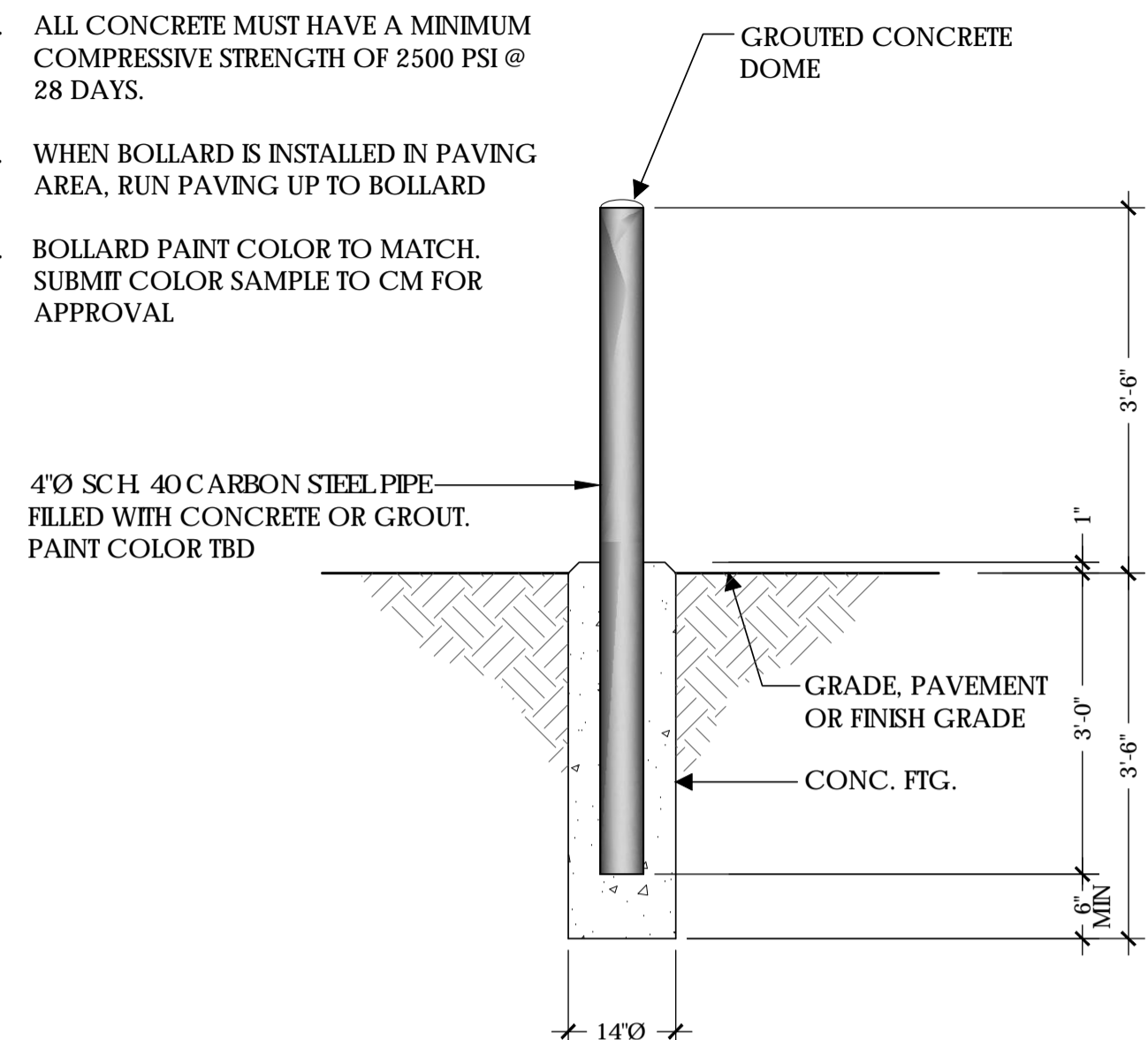
A.5

Sheet No.:

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NOTES:

1. SPACE BOLLARDS AS SHOWN ON PLAN OR AS DIRECTED BY CONSTRUCTION MANAGER.
2. ALL CONCRETE MUST HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI @ 28 DAYS.
3. WHEN BOLLARD IS INSTALLED IN PAVING AREA, RUN PAVING UP TO BOLLARD
4. BOLLARD PAINT COLOR TO MATCH. SUBMIT COLOR SAMPLE TO CM FOR APPROVAL.



4" DIA. STEEL BOLLARD

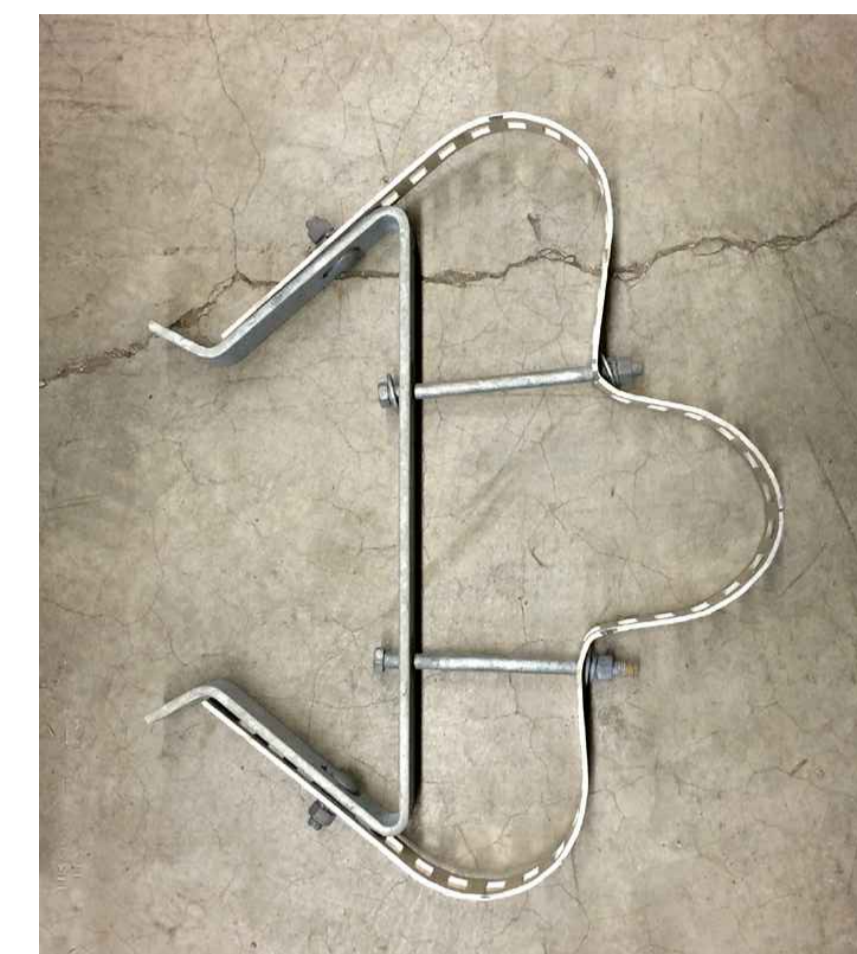
SCALE
NOT TO SCALE

1

NOT USED



SINGLE CONDUIT STANDOFF

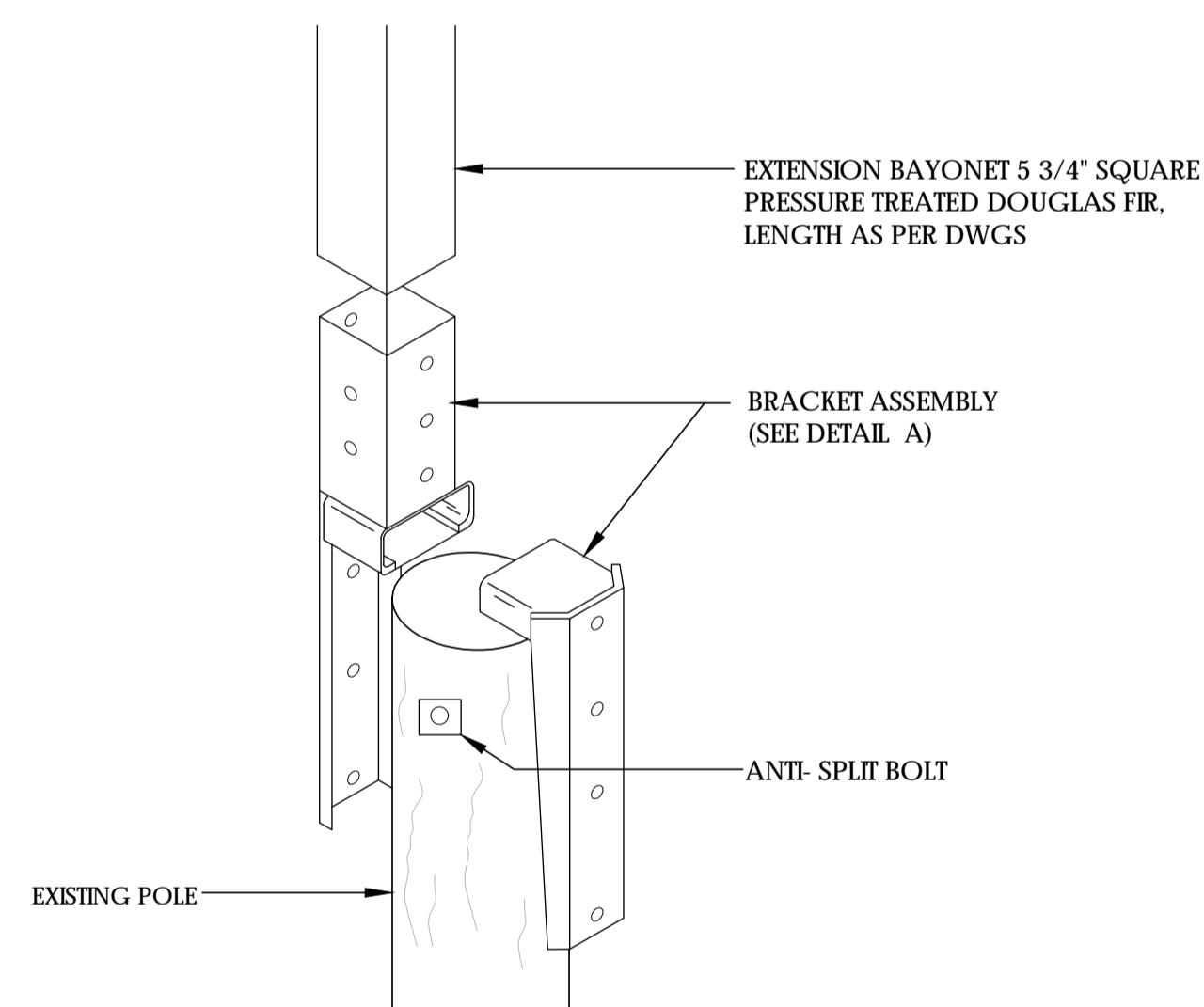


TRIPLE CONDUIT STANDOFF

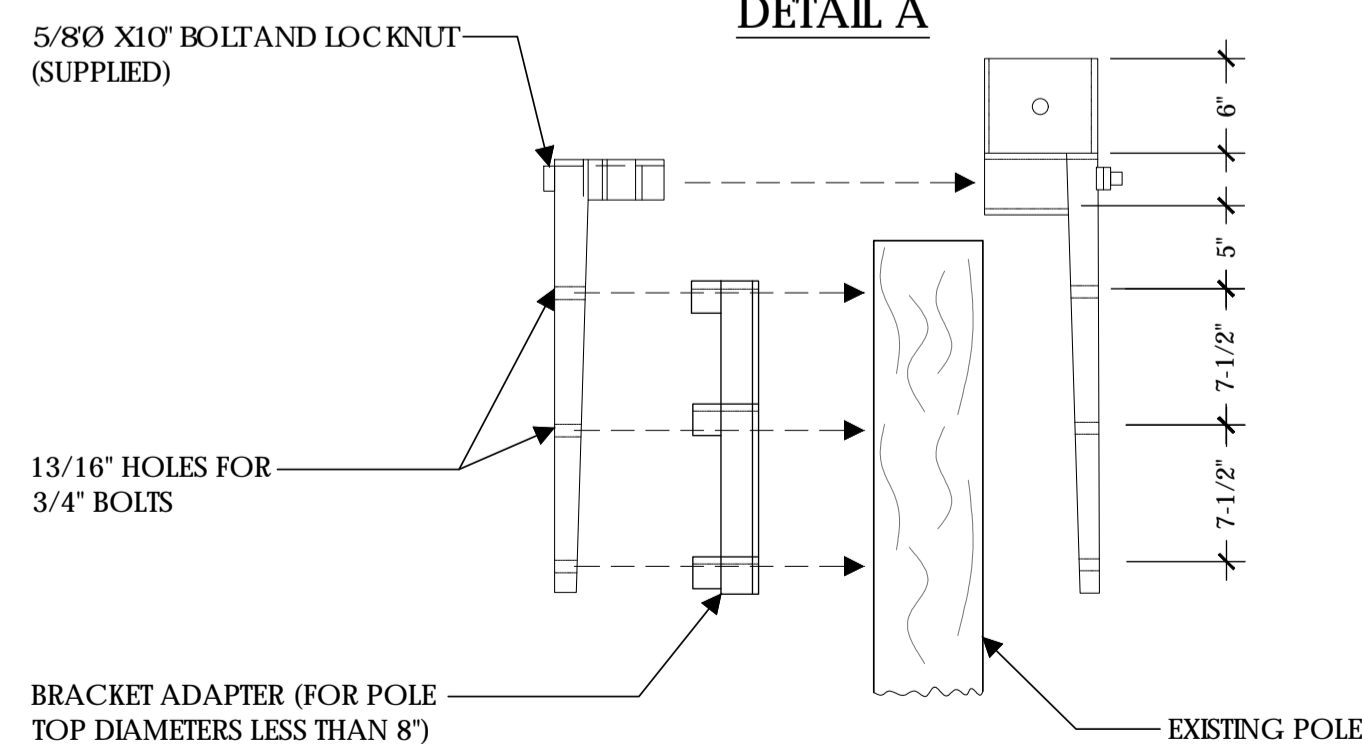
* OR EQUAL

3 RISER STANDOFF BRACKETS

4



DETAIL A



DETAIL B

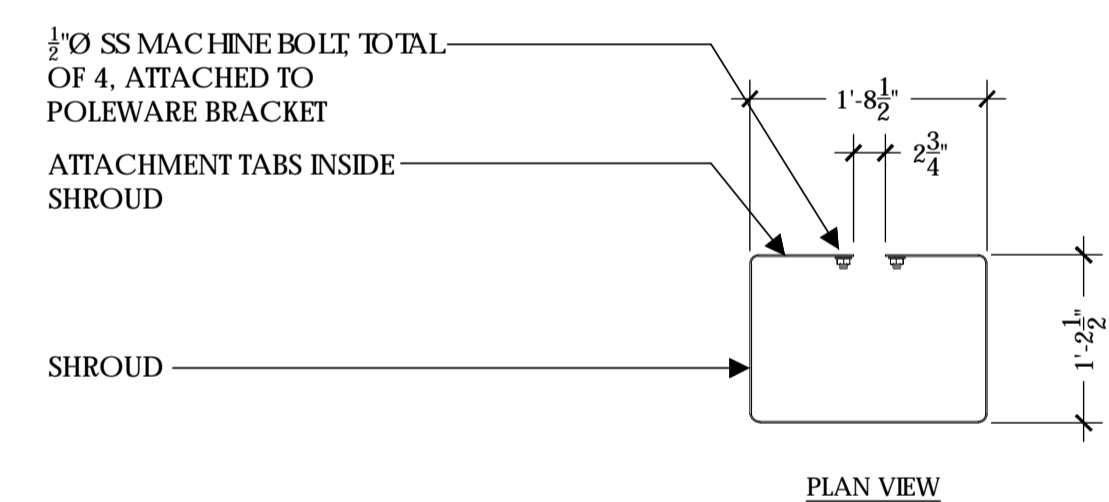
NOTE:
(N) BRACKET ASSEMBLY TO BE PROVIDED BY UTILITY COMPANY AND PAINT TO MATCH

POLETOP WOOD EXTENSION AND BRACKET

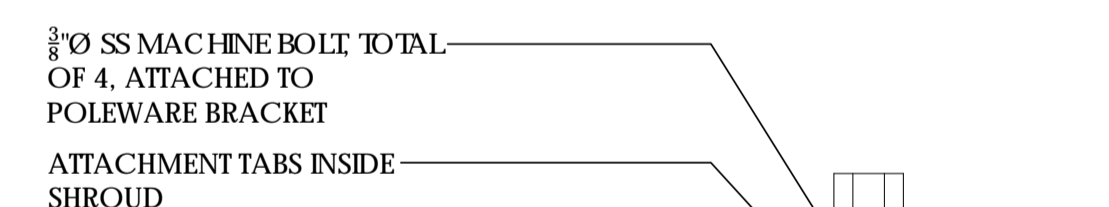
SCALE
NOT TO SCALE

2

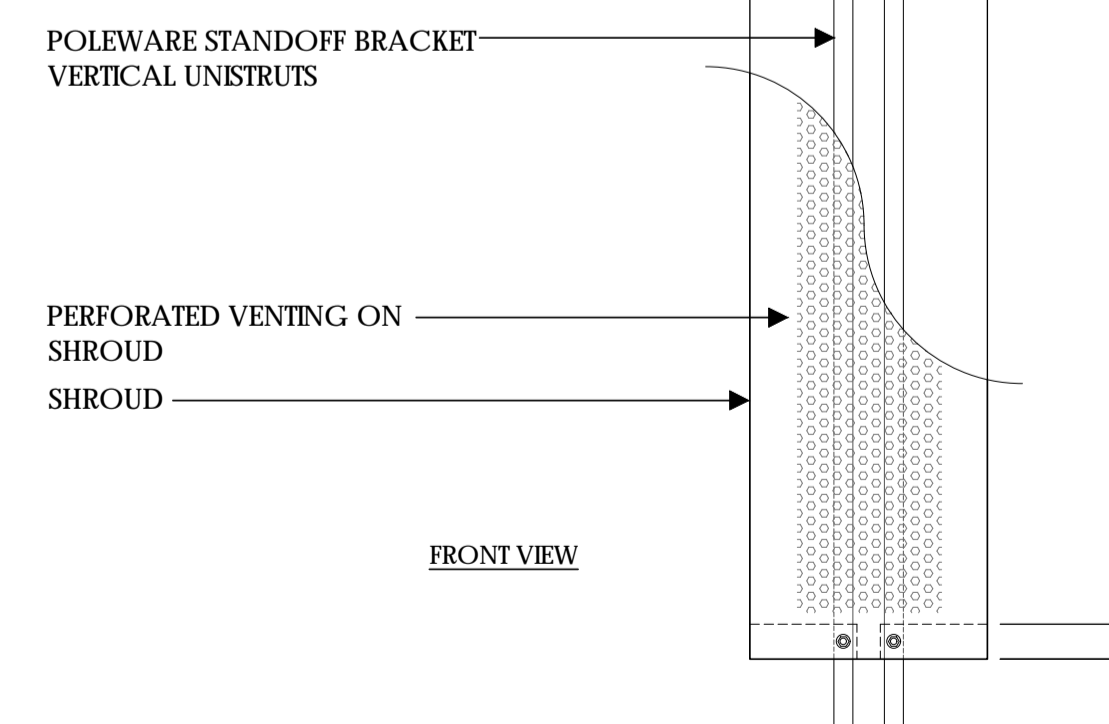
RRU SHROUD



PLAN VIEW

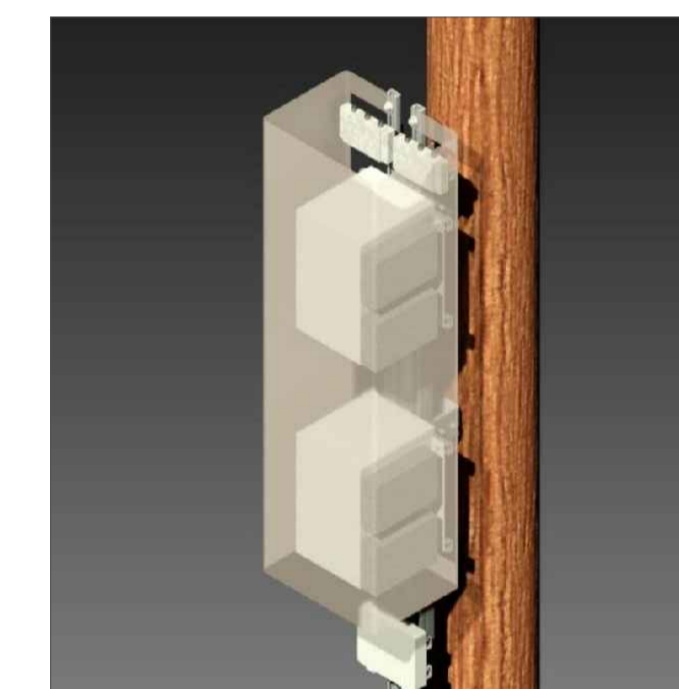


CUTAWAY VIEW

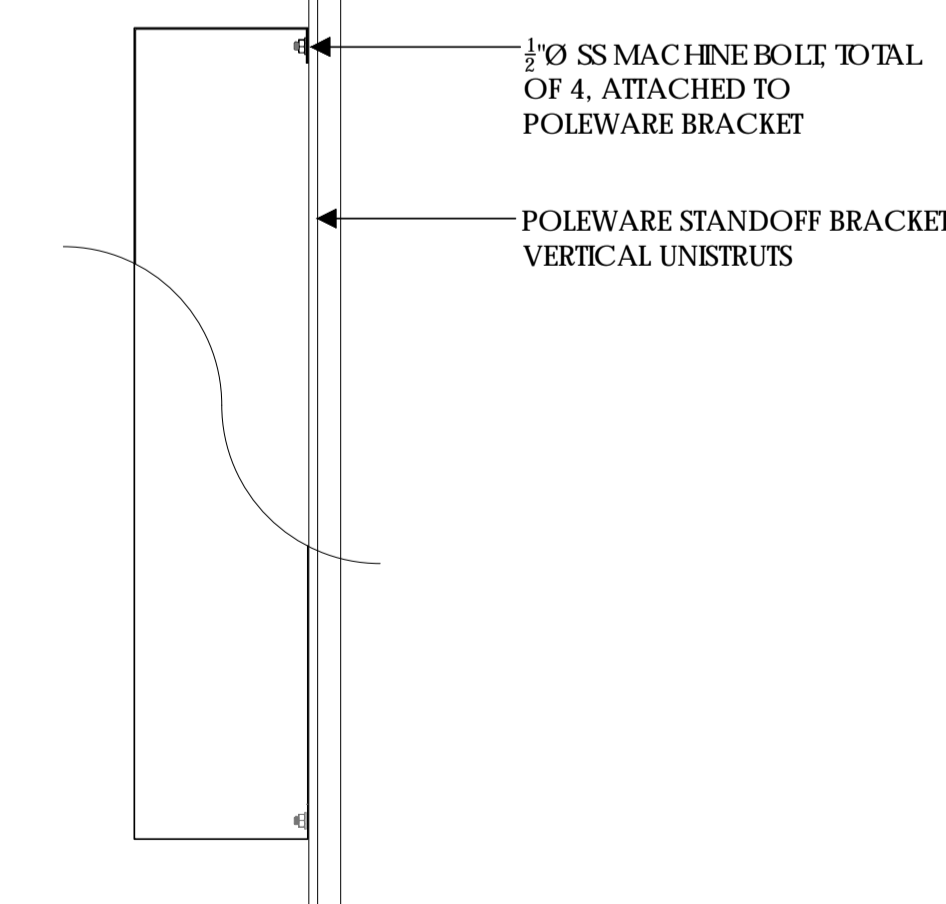


FRONT VIEW

FRONT ELEVATION



ISO



SIDE ELEVATION

NOTE:

1. RRU SHROUD MODEL #PW-RRS-072L-TAH-SP AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
2. ALL COMPONENTS TO BE SHOP PRIMED PAINTED
3. UNISTRUT COMPONENTS TO BE MFG. BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., ITASCA IL, 60143, (800) 468-9510.
4. CUSTOMER TO SPECIFY SHROUD HEIGHT AT TIME OF ORDERING.



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



222 W. LOCKEFORD STREET
SUITE 9
Lodi, CA 95240

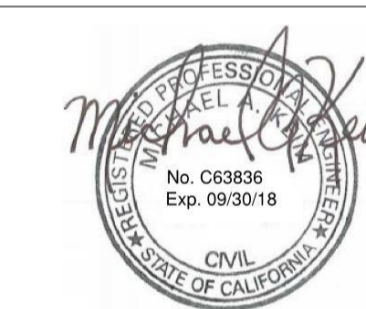
Site Agent:

100% Construction
Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



Professional Seal:

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02	04/03/18	Constr. Dwg 100%

Project No.:

Date: 04/03/18

Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT
DETAILS

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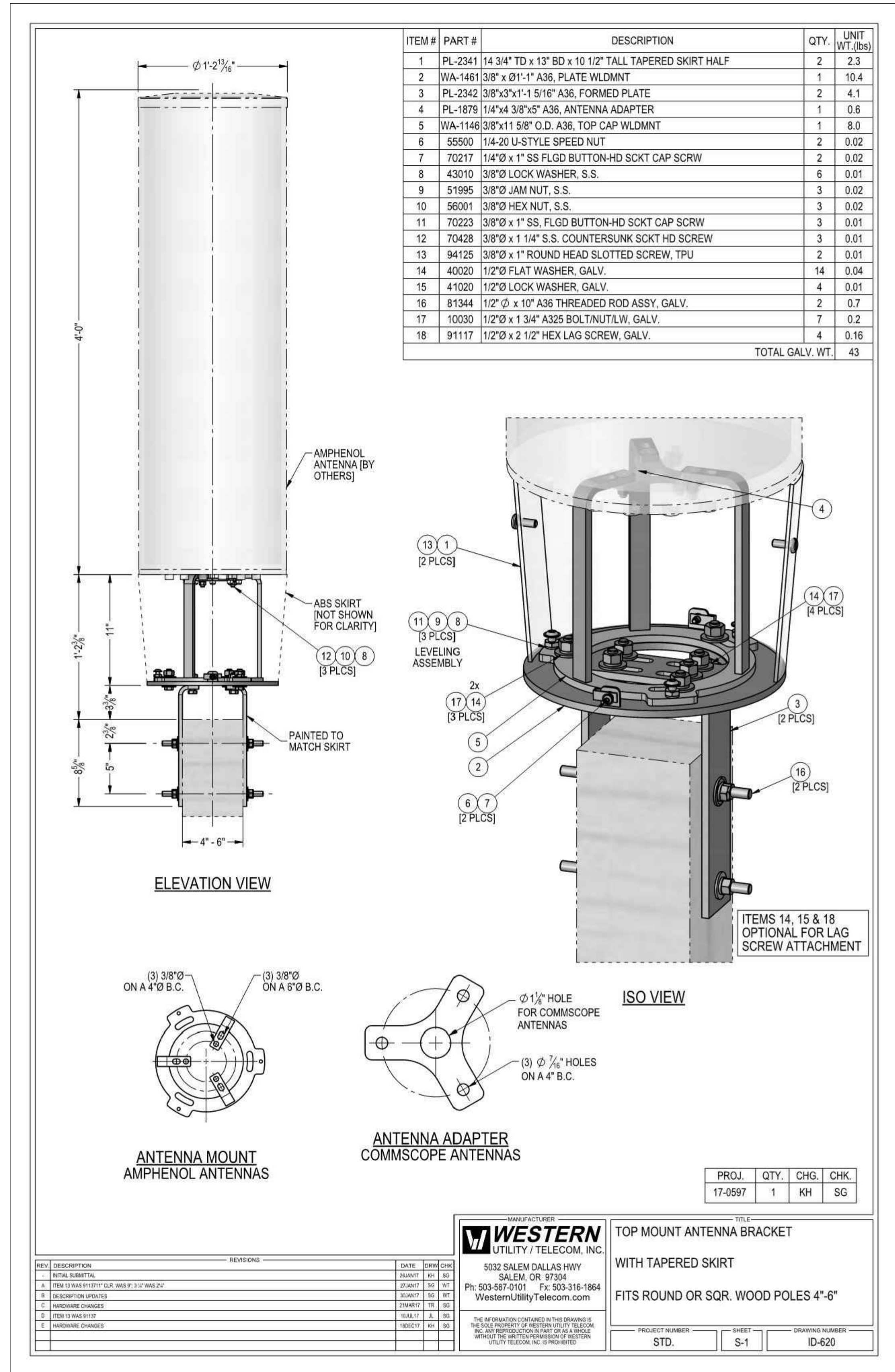
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Sheet No.:

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SCALE
NOT TO SCALE

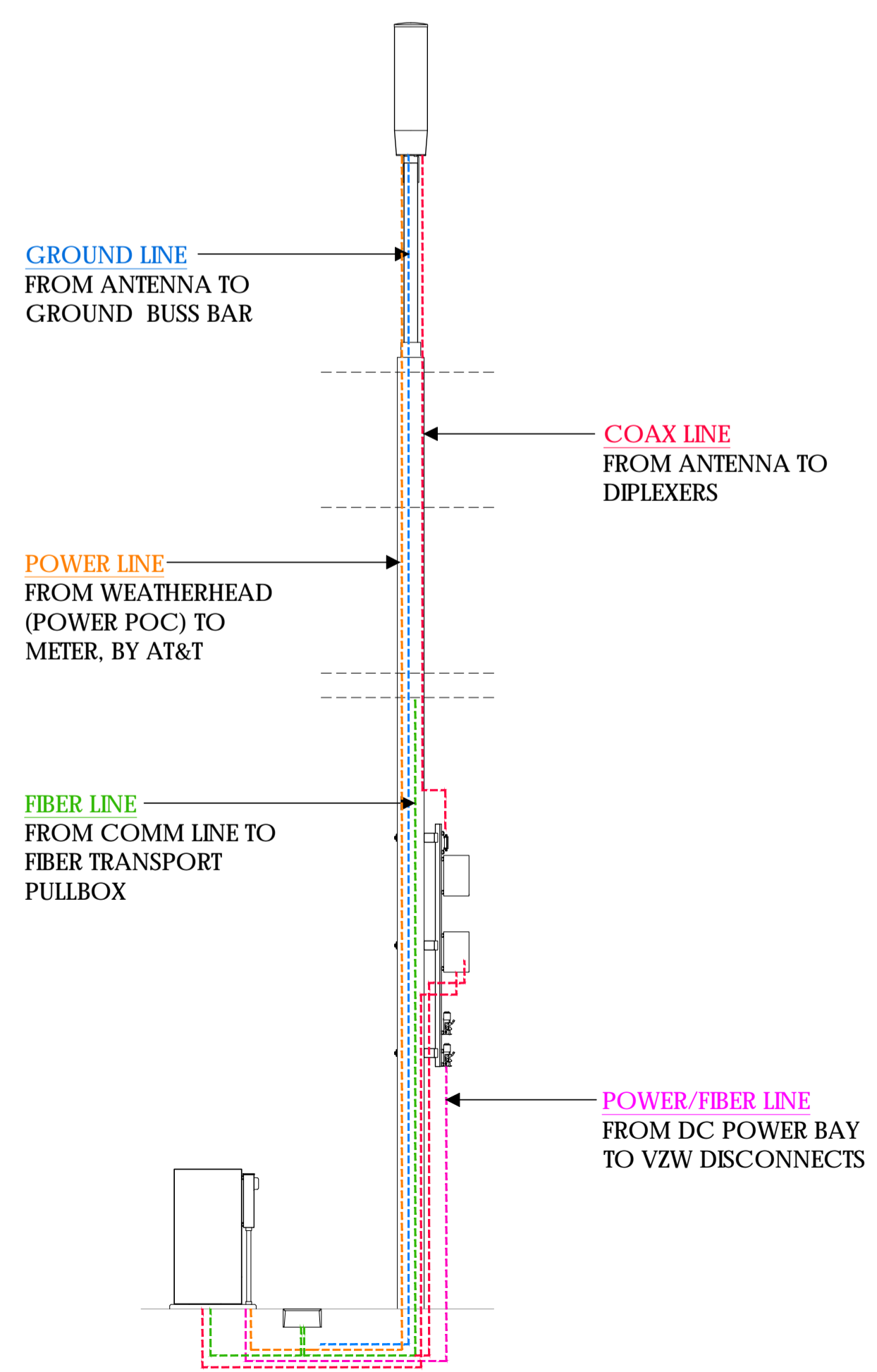
5



CANTENNA SHROUD AND BRACKET

1

PLUMBING DIAGRAM



CONDUIT RISER DIAGRAM

2



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



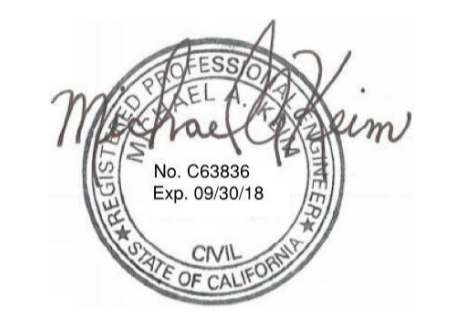
Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Project No.:

Date: 04/03/18 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT DETAILS
PLUMBING DIAGRAM

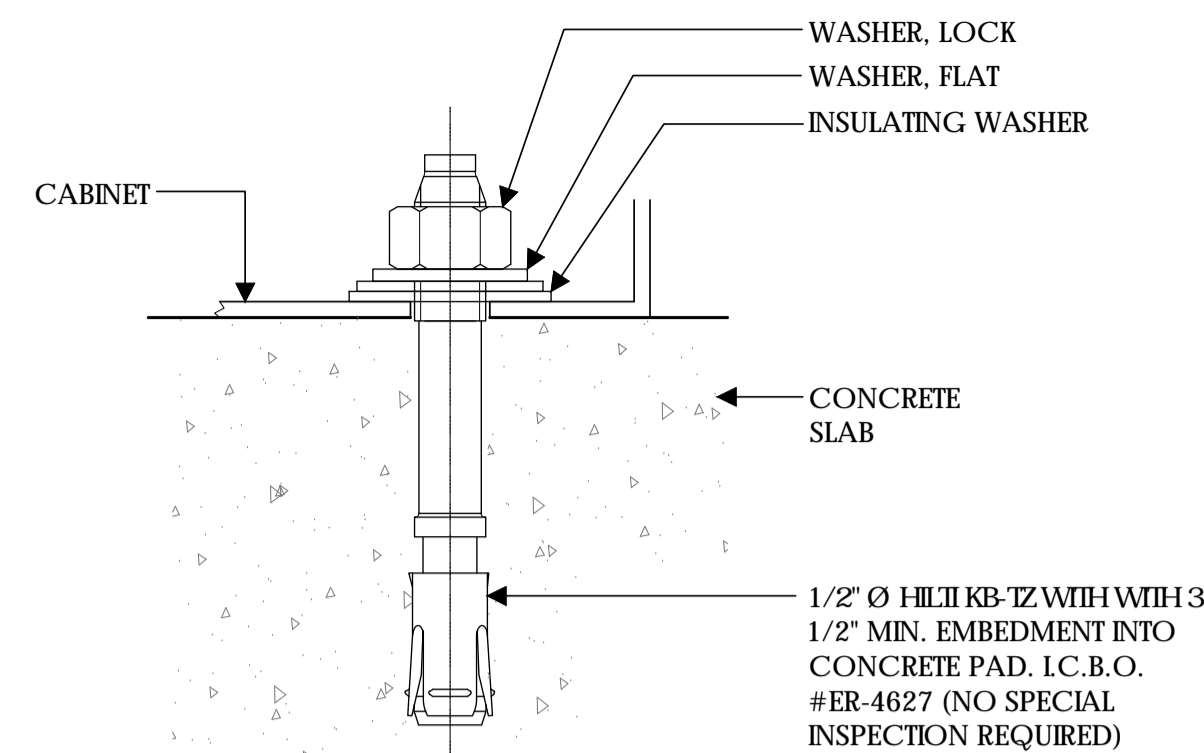
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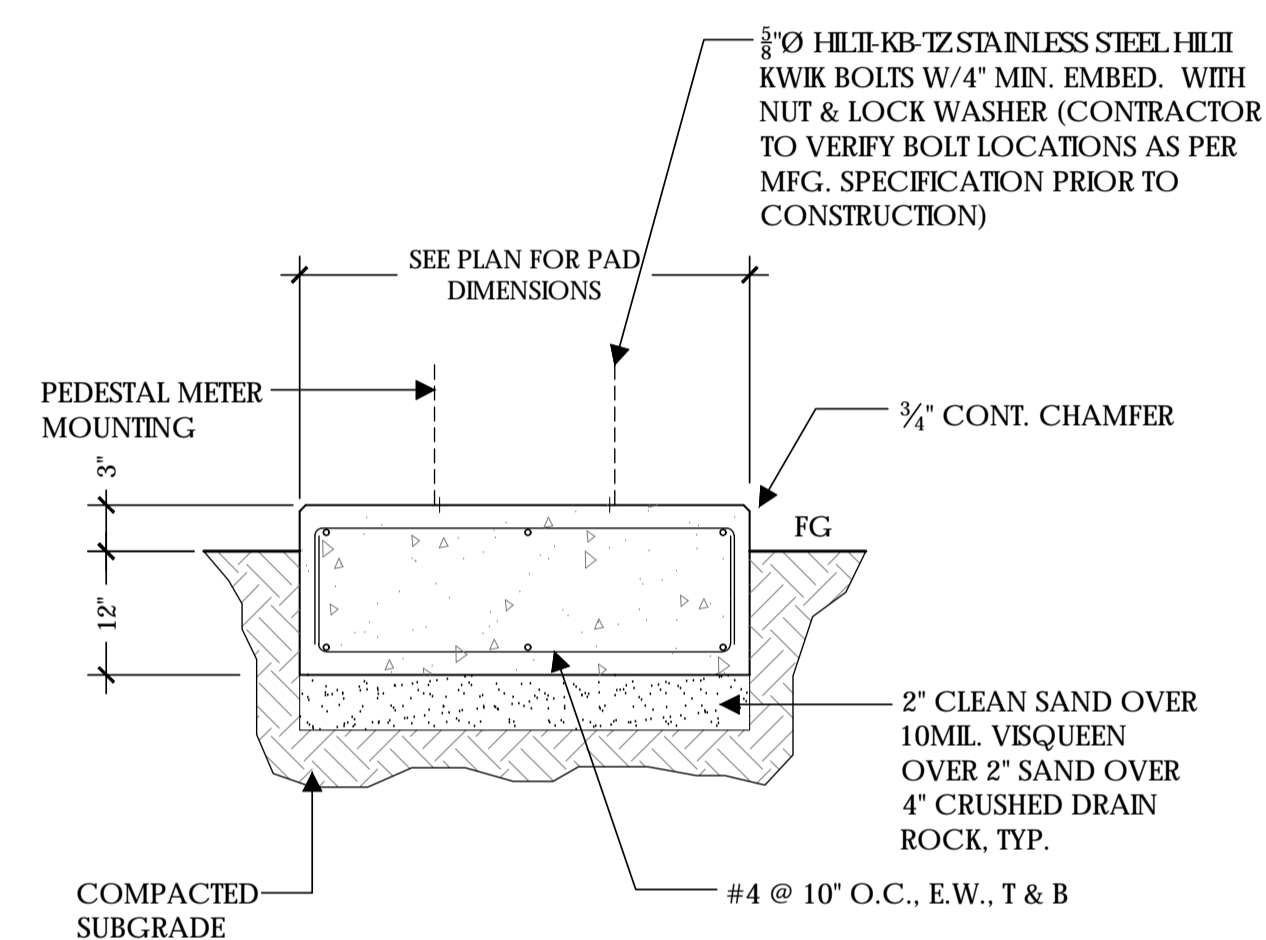
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3



CABINET ANCHORAGE

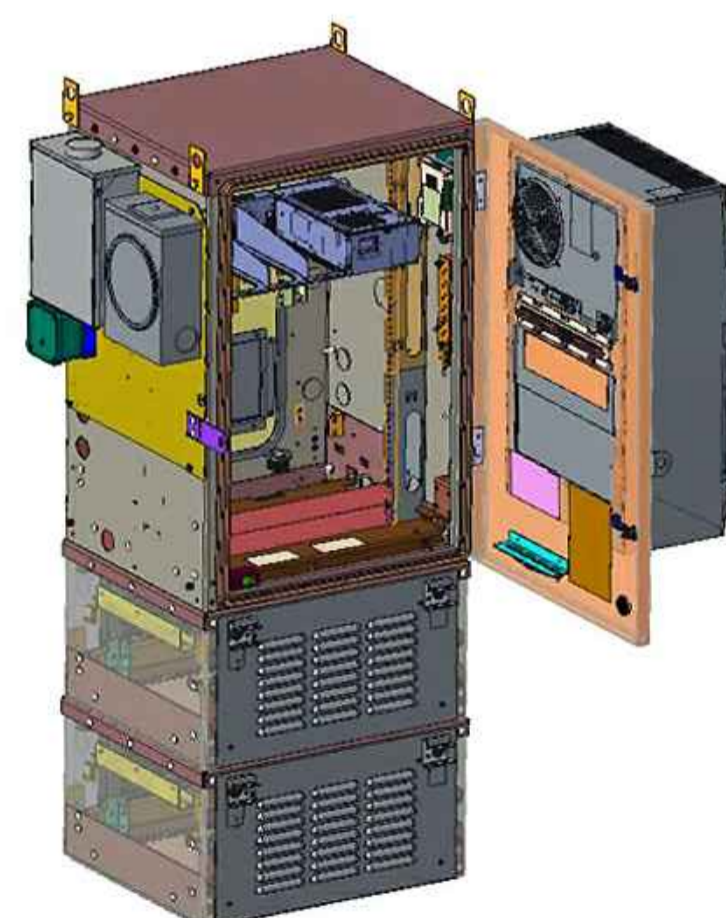
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N.T.S. **1**



CONCRETE PAD

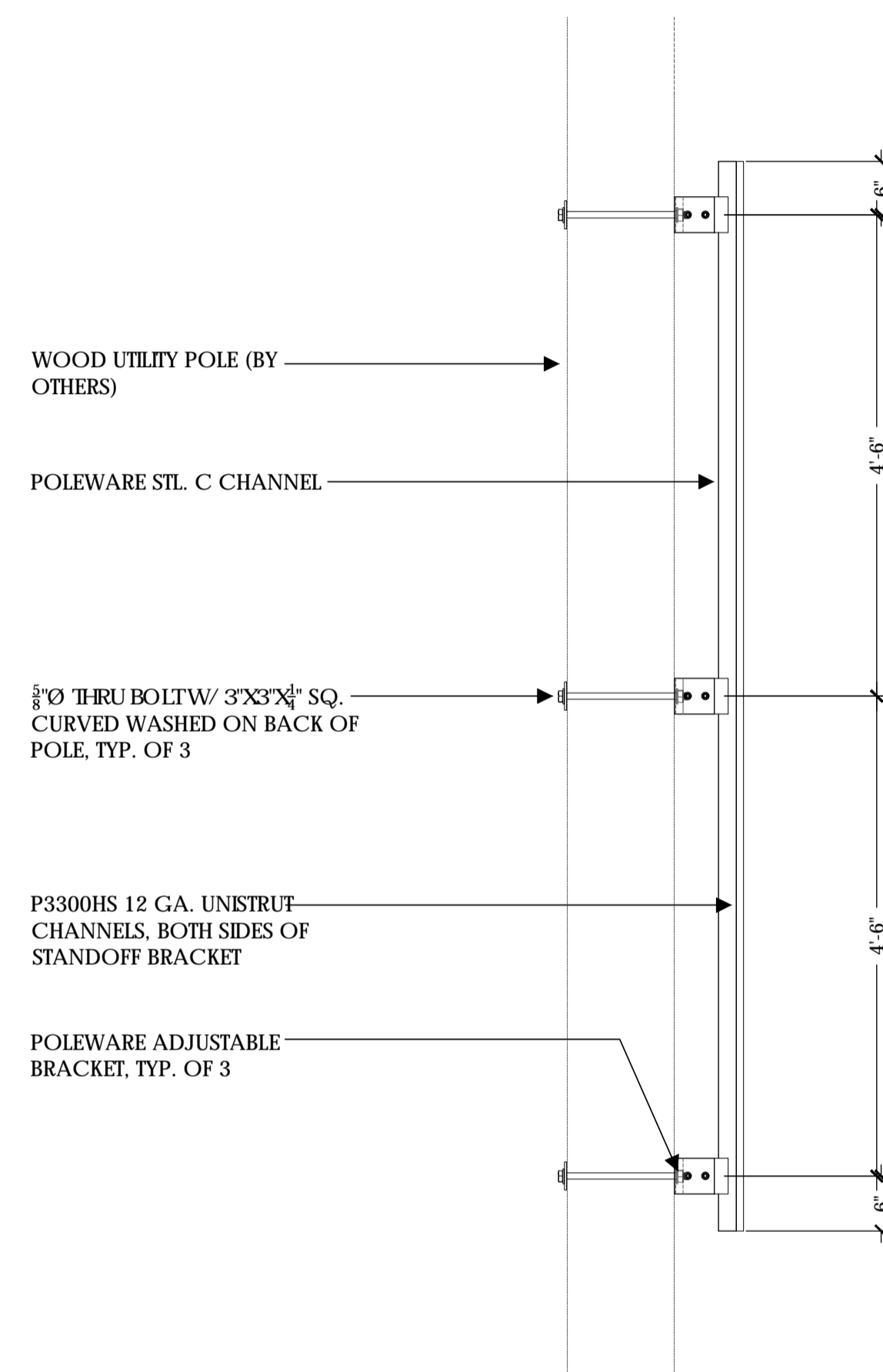
SCALE
NOT TO SCALE **2**

- UNIT: SMALL CELL CABINET
- HEIGHT: 61 INCHES
- WIDTH: 24 INCHES
- DEEP: 30 INCHES
- WEIGHT (FULLY LOADED): 300 LBS

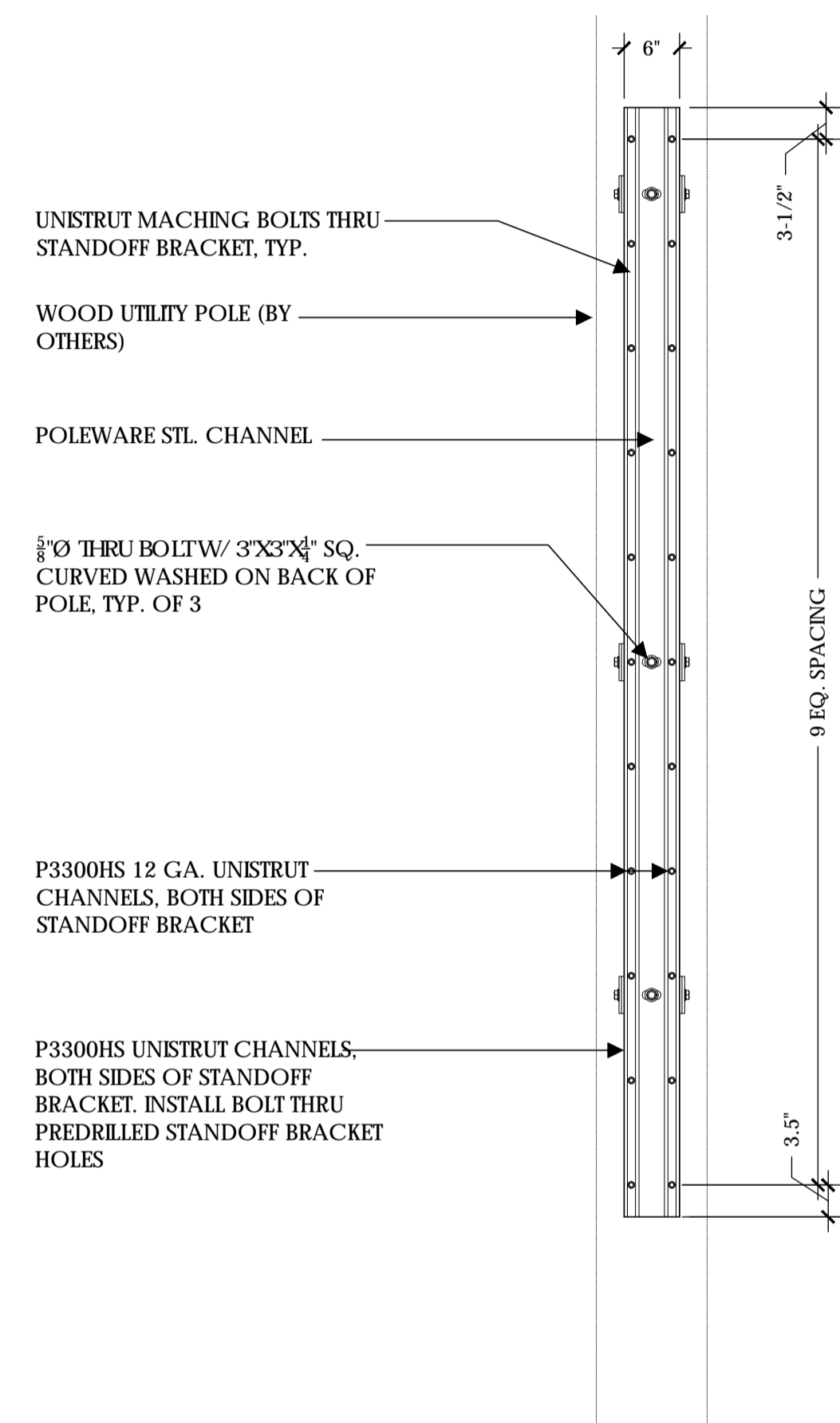


SMALL CELL CABINET

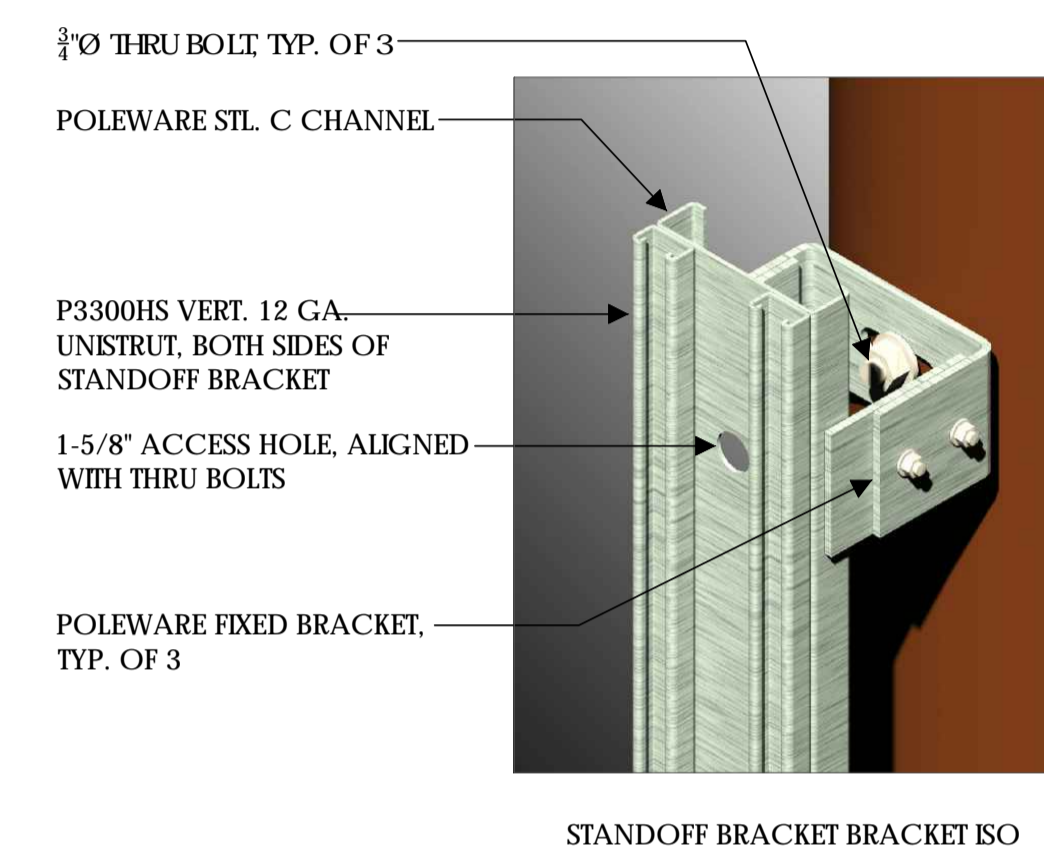
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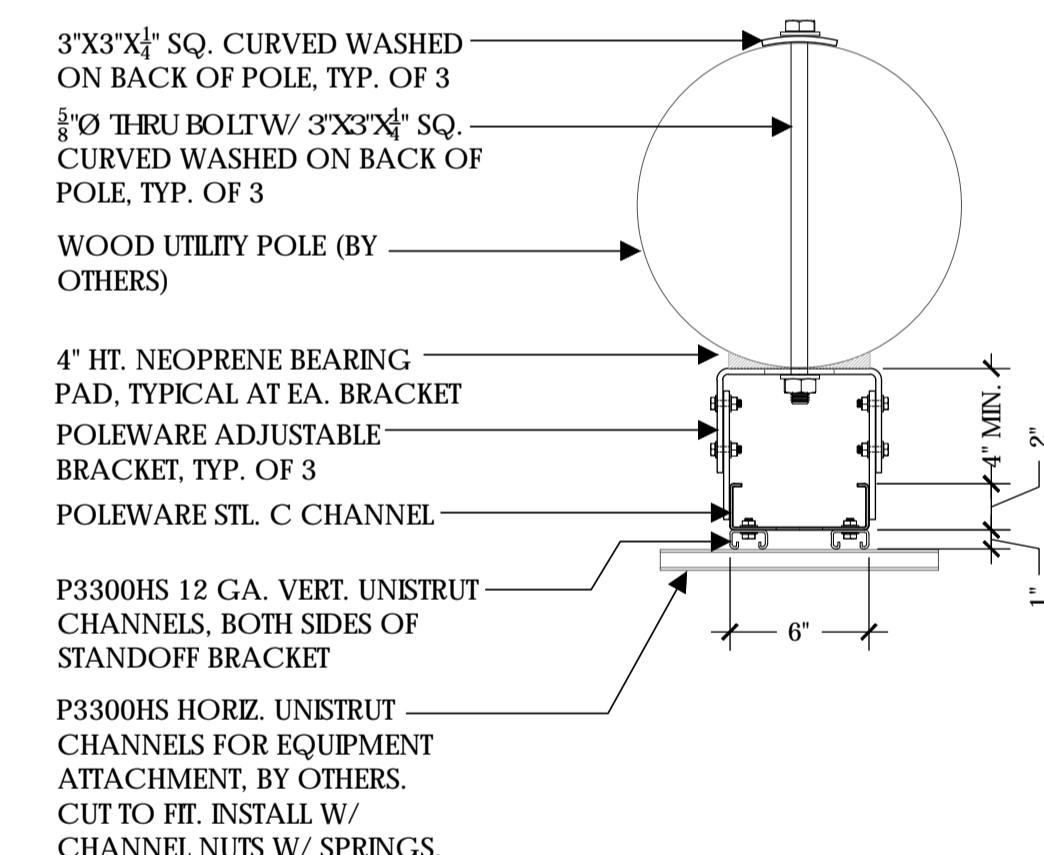
STANDOFF BRACKET SIDE ELEVATION



STANDOFF BRACKET FRONT ELEVATION



STANDOFF BRACKET BRACKET ISO



STANDOFF BRACKET PLAN

- NOTE:**
- STANDOFF BRACKET MODEL #PW-SOB-09L-ADJ-SP AS MFG. BY POLEWARE, LLC, (475) 215-5119, OR EQUAL
 - ALL COMPONENTS TO BE SHOP PRIMED PAINTED
 - UNISTRUT COMPONENTS TO BE MFG BY UNISTRUT CORPORATION, 1140 W. THORNDALE AVE., HASCALA IL, 60143, (800) 468-9510.
 - HORIZONTAL UNISTRUTS (P3300HS) FOR EQUIPMENT INSTALLATION NOT INCLUDED
 - ADJUSTABLE BRACKETS FOR SLANTED POLES AVAILABLE BY SPECIAL ORDER

STANDOFF BRACKET

SCALE
NOT TO SCALE **4**



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2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



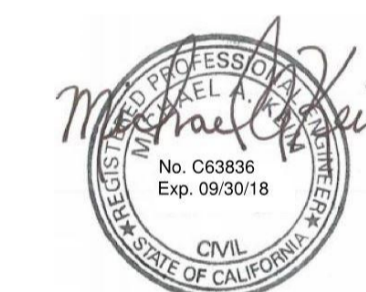
Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Date: 04/03/18 Job No.:

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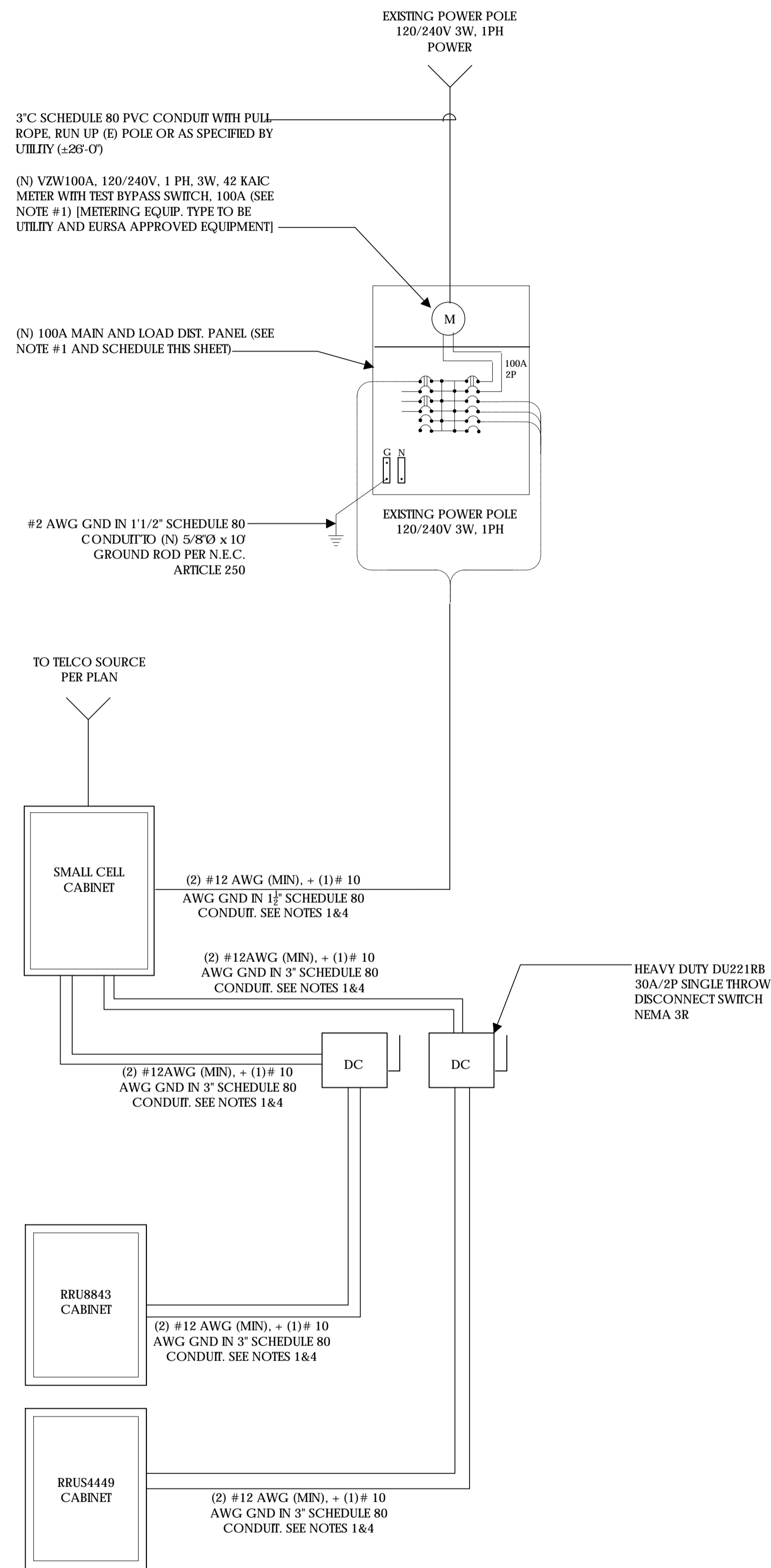
EQUIPMENT DETAILS

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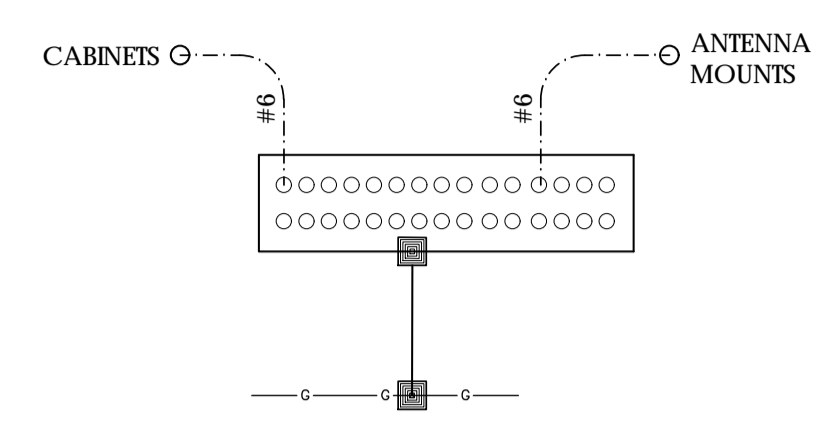
A.8

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SINGLE LINE DIAGRAM



BUSS DIAGRAM

LOAD CALCULATIONS - VERIZON WIRELESS

EXISTING LOAD:	0 AMPS
NEW LOAD:	17.9 AMPS MAX.
NEW TOTAL LOAD:	17.9 AMPS MAX.

POWER AND TELCO DESIGN IS BASED ON INITIAL SITE VISIT.

CONTRACTOR SHALL OBTAIN CURRENT UTILITY COORDINATOR PLANS PRIOR TO START OF CONSTRUCTION.

AVAILABLE FAULT CURRENT PER UTILITY.

NOTE: CONTRACTOR TO CHECK WITH UTILITY TO ENSURE ELEC. METER IS BRACED FOR ACTUAL FAULT CURRENT.

POWER AND TELCO NOTES:

- POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
- CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
- CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.

GENERAL ELECTRICAL NOTES:

- PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
- THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE 24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK, ERECT & MAINTAIN APPROVED & SUITABLE BARRIERS, PROTECTIVE DEVICES & WARNING SIGNS, BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS.
- COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
- ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE PART OF THIS CONTRACT.
- FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY, VERIFY LOCATION FOR FACILITIES & DETAILS WITH POWER UTILITY, IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.
- ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "THWN" OR "TWN".
- PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.
- UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, S-DUAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS. SWITCHES AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A 5 OHM OR LESS GROUNDING PATH. ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.

NOTES:

- SUBCONTRACTOR SHALL PROVIDE DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/UTILITY CABINET.
- ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
- MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



Verizon Wireless
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Walnut Creek, CA 94598

Client:

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridian.management

Project Architect:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World
222 W. LOCKEFORD STREET
SUITE 9
Lodi, CA 95240

Site Agent:

100% Construction Drawings

Drawing Phase:

**SC SOUTH LAKE
TAHOE 060**
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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02	04/03/18	Constr. Dwgs 100%

Project No.:

Date: 04/03/18

Job No.:

Scale: AS SHOWN

CAD File:

Designed By: JG

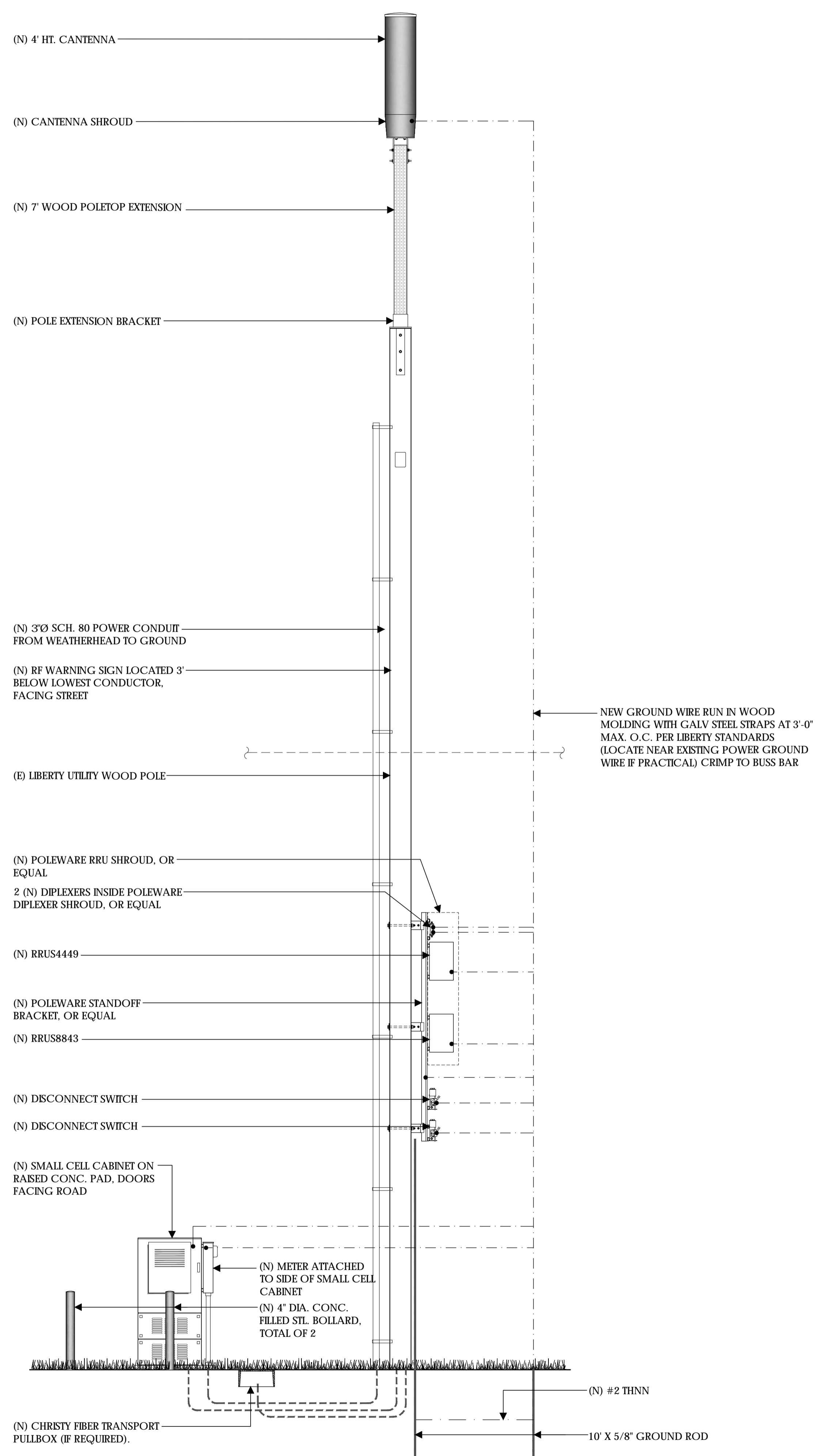
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SINGLE LINE DIAGRAM
BUS SCHEDULE
PANEL SCHEDULE

Sheet Title:

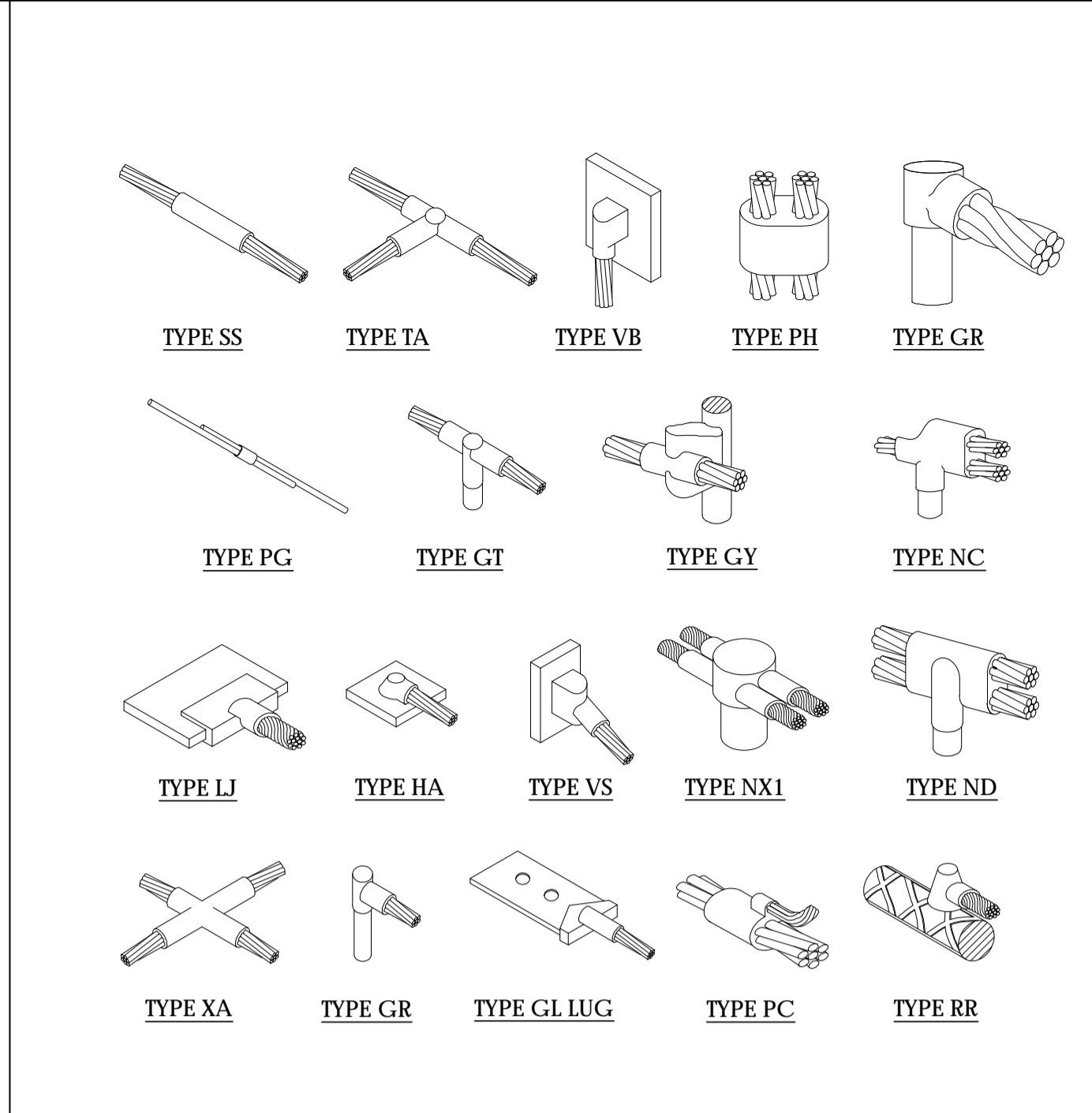
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Sheet No.:

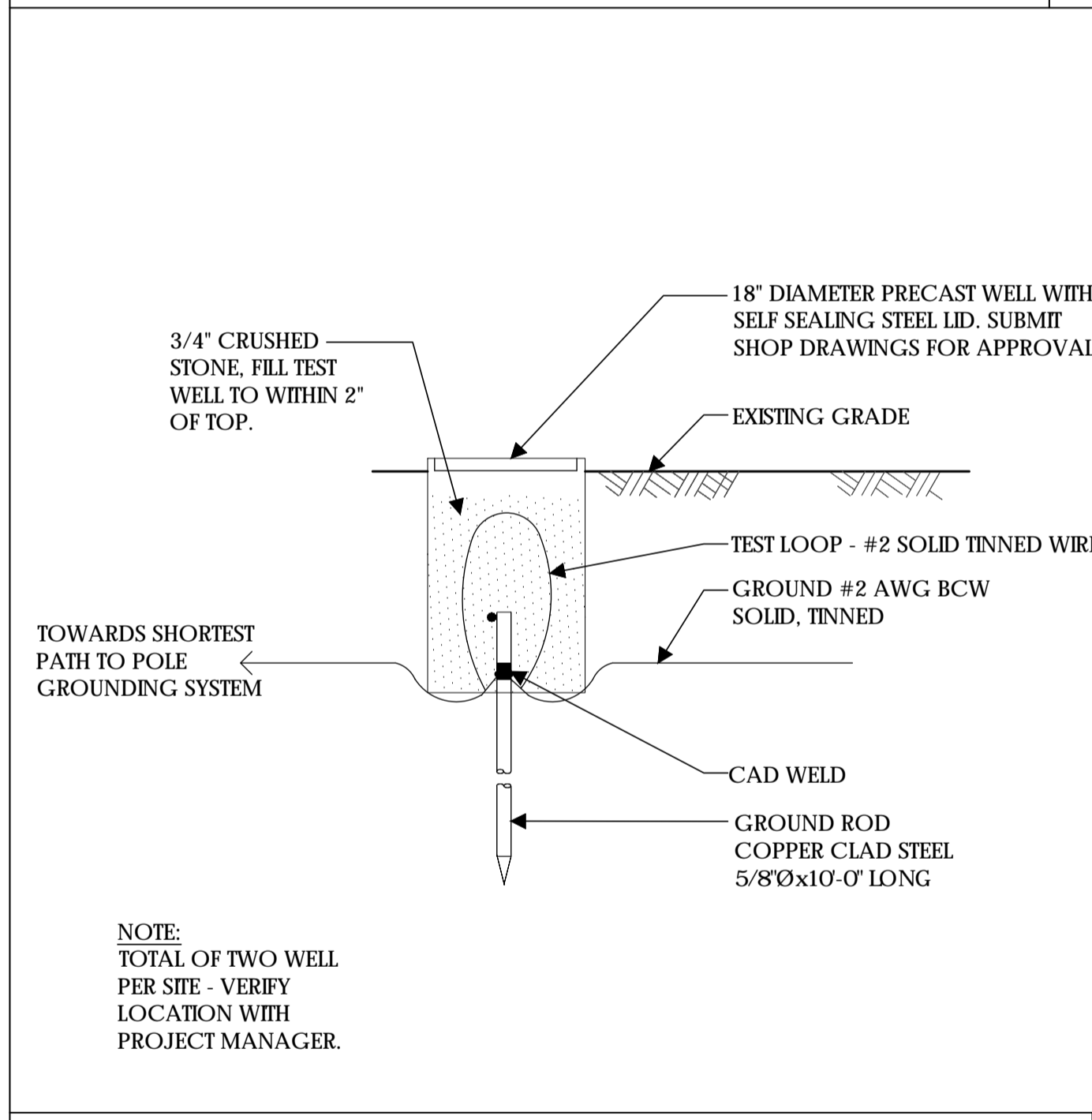


POLE GROUNDING RISER DIAGRAM (TYP.)

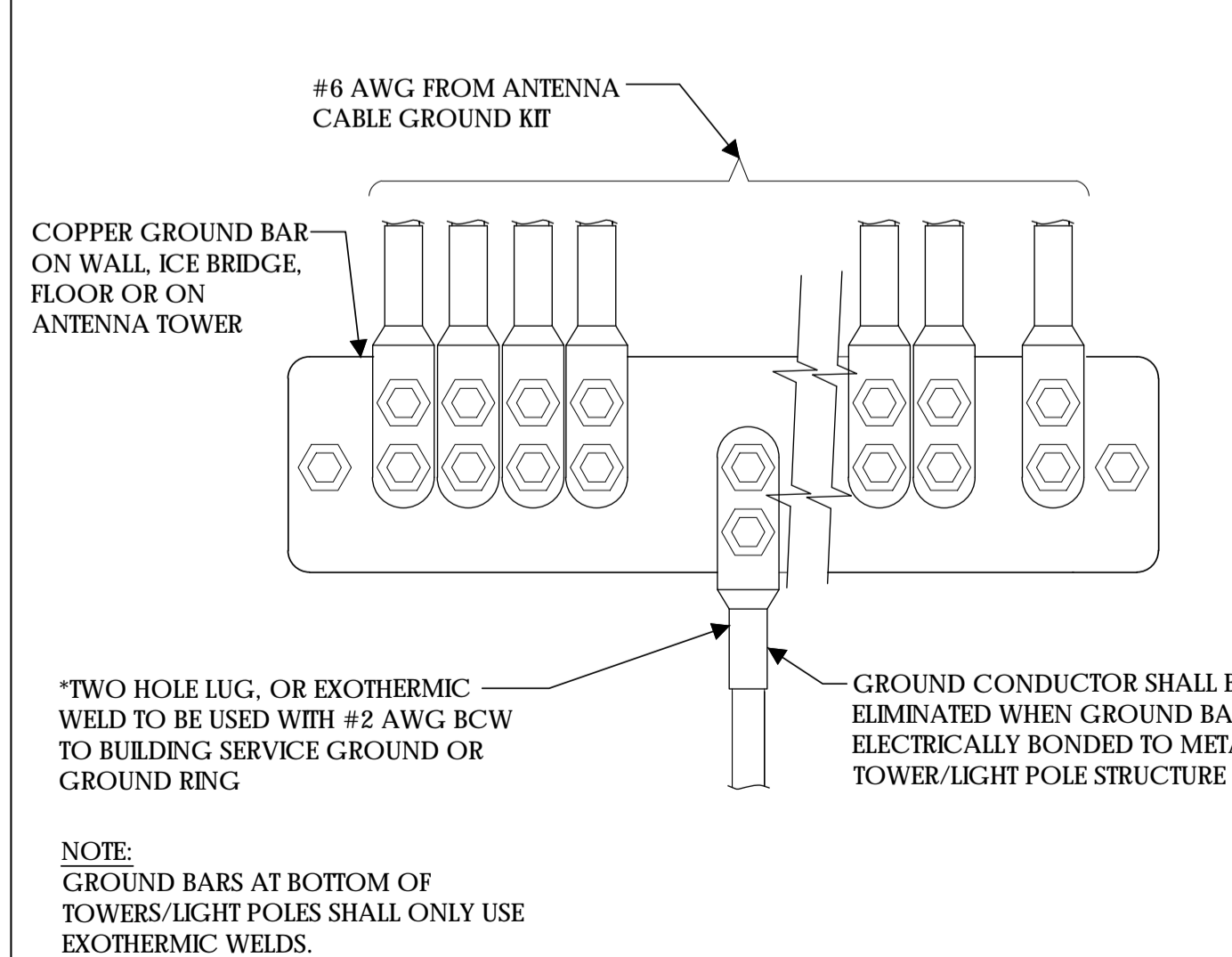
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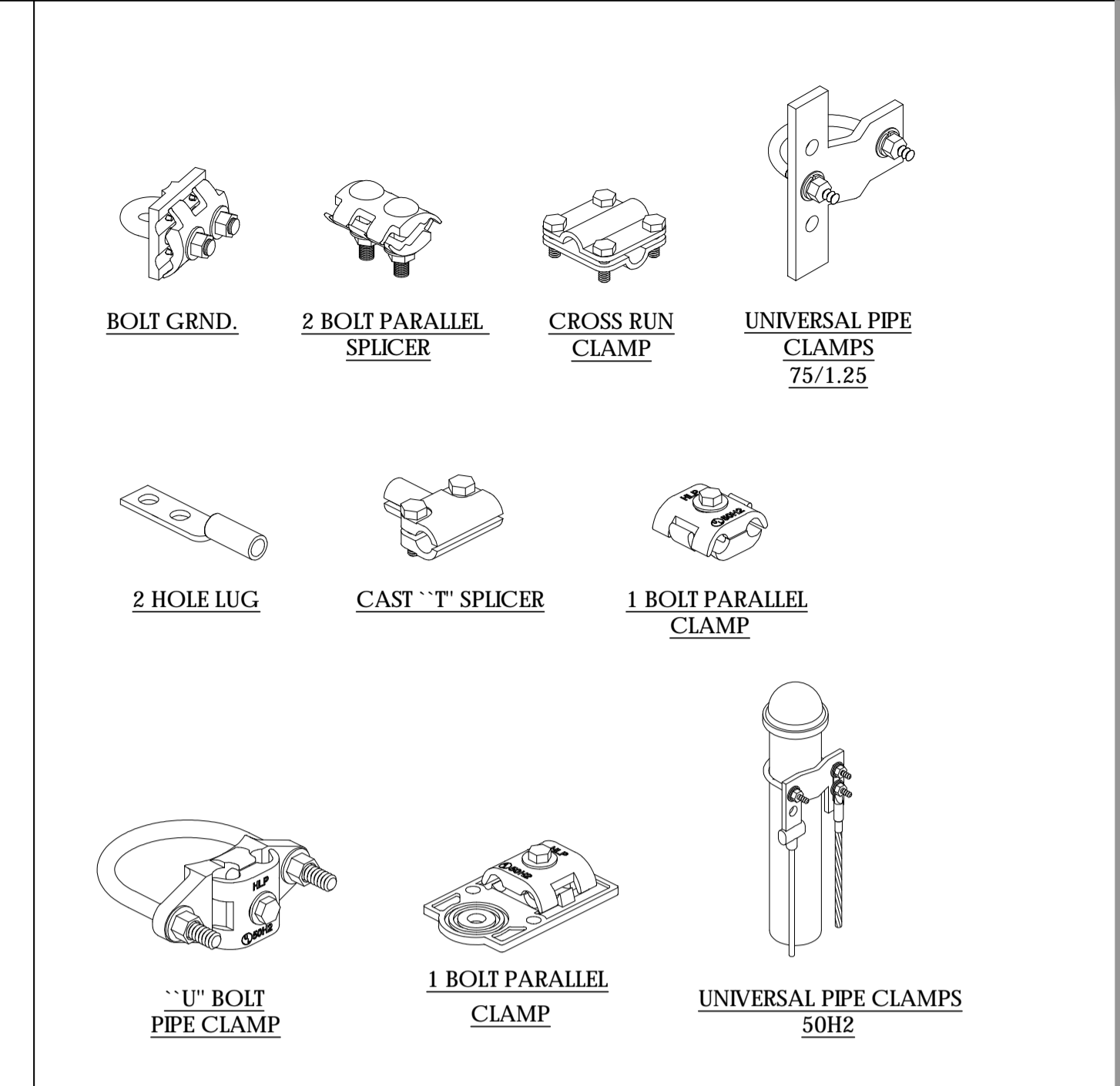
EXOTHERMIC WELD CONNECTION 2



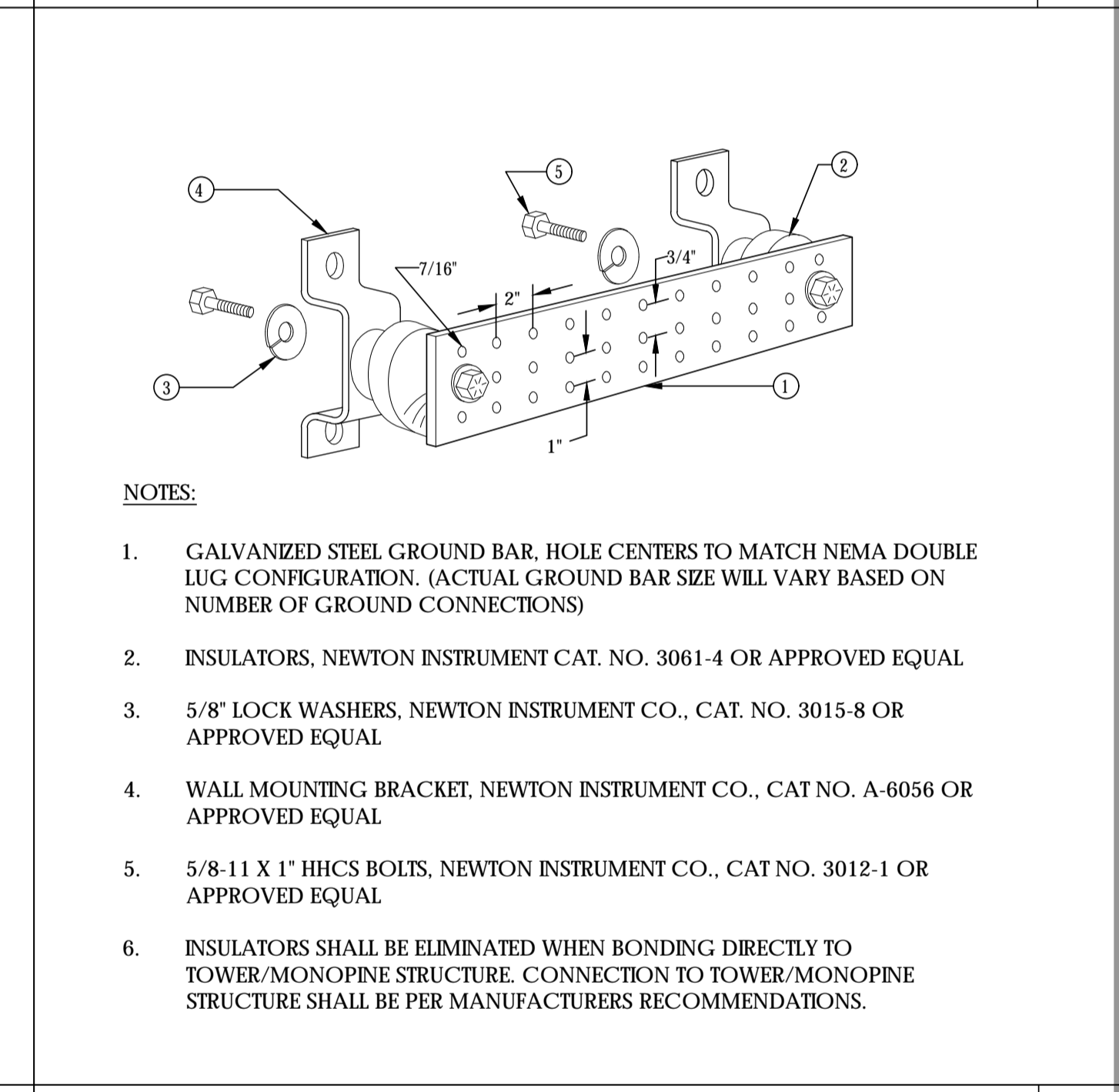
GROUND TEST WELL 3



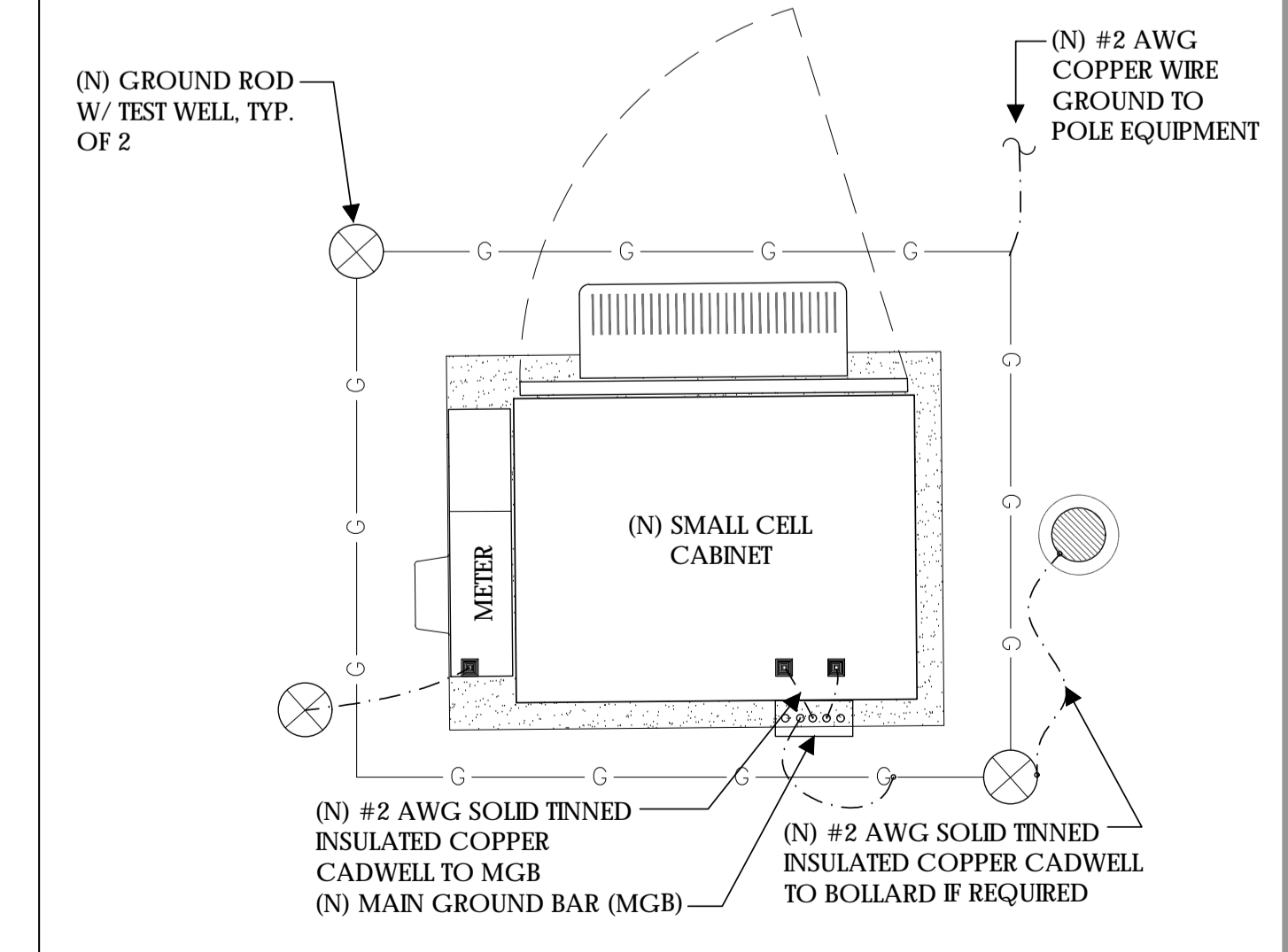
INSTALLATION OF GND WIRE TO GND BAR 4



MECHANICAL CONNECTION 5



BUSS BAR 6



GROUND RING TYP. 7



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:

EPIC WIRELESS GROUP LLC
Connecting a Wireless World
222 W. LOCKEFORD STREET SUITE 9
Lodi, CA 95240

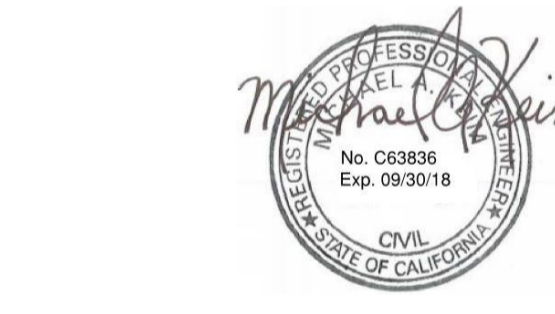
Site Agent:

100% Construction Drawings

Drawing Phase:

SC SOUTH LAKE TAHOE 060
PROW COPPER WAY (NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Project No.:

Date: 04/03/18 Job No.:

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Designed By: JG Checked: RB

GROUNDING PLAN ELECTRICAL DETAILS
Sheet Title:

E.2
Sheet No.:

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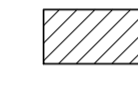

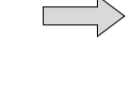

PLAN NOTES:

1. PLANS DEPICTED ARE GENERAL GUIDELINES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAN AND WORKER SAFETY. CONTRACTOR IS REQUIRED TO HAVE PREPARED A SITE-SPECIFIC TCP FOR REVIEW AND APPROVAL BY THE HIGHWAY AUTHORITY HAVING JURISDICTION. IF REQUIRED, THE FIRM PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFIED BY THE AUTHORITY HAVING JURISDICTION.
2. EXTEND CHANNELIZATION DEVICES INTO SHOULDER WHERE APPLICABLE.
3. DISTANCES AS INDICATED IN TABLE 1 SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING. DISTANCE SUCH AS DOWNGRADES OR LIMITED SIGHT DISTANCES. DISTANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTIAL) AREAS WITH APPROVAL BY THE AUTHORITY HAVING JURISDICTION. NIGHT-TIME WORK IS PROHIBITED UNLESS IT IS REQUIRED AS A CONDITION OF APPROVAL BY THE HIGHWAY AND LOCAL AUTHORITY HAVING JURISDICTION.
4. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH.
5. MAINTAIN A MINIMUM LANE WIDTH OF 10'.

DOT NOTES:

1. WHEN LANE CLOSURE IS REQUIRED, THE TRAFFIC CONTROL PLAN SHOULD BE PROVIDED AND NOTARIZED BY AN INDIVIDUAL/COMPANY THAT HAS FLAGGER CONTROL TRAINING CERTIFICATION.
2. "BLUE-LIGHTS" (OFF-DUTY POLICE OFFICERS) WILL BE ON SITE FOR LANE CLOSURES AND IF REQUIRED.

LEGEND

-  CHANNELIZING DEVICE
-  SIGN
-  WORK SPACE
-  FLAGGER
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW SIGN (FAS)

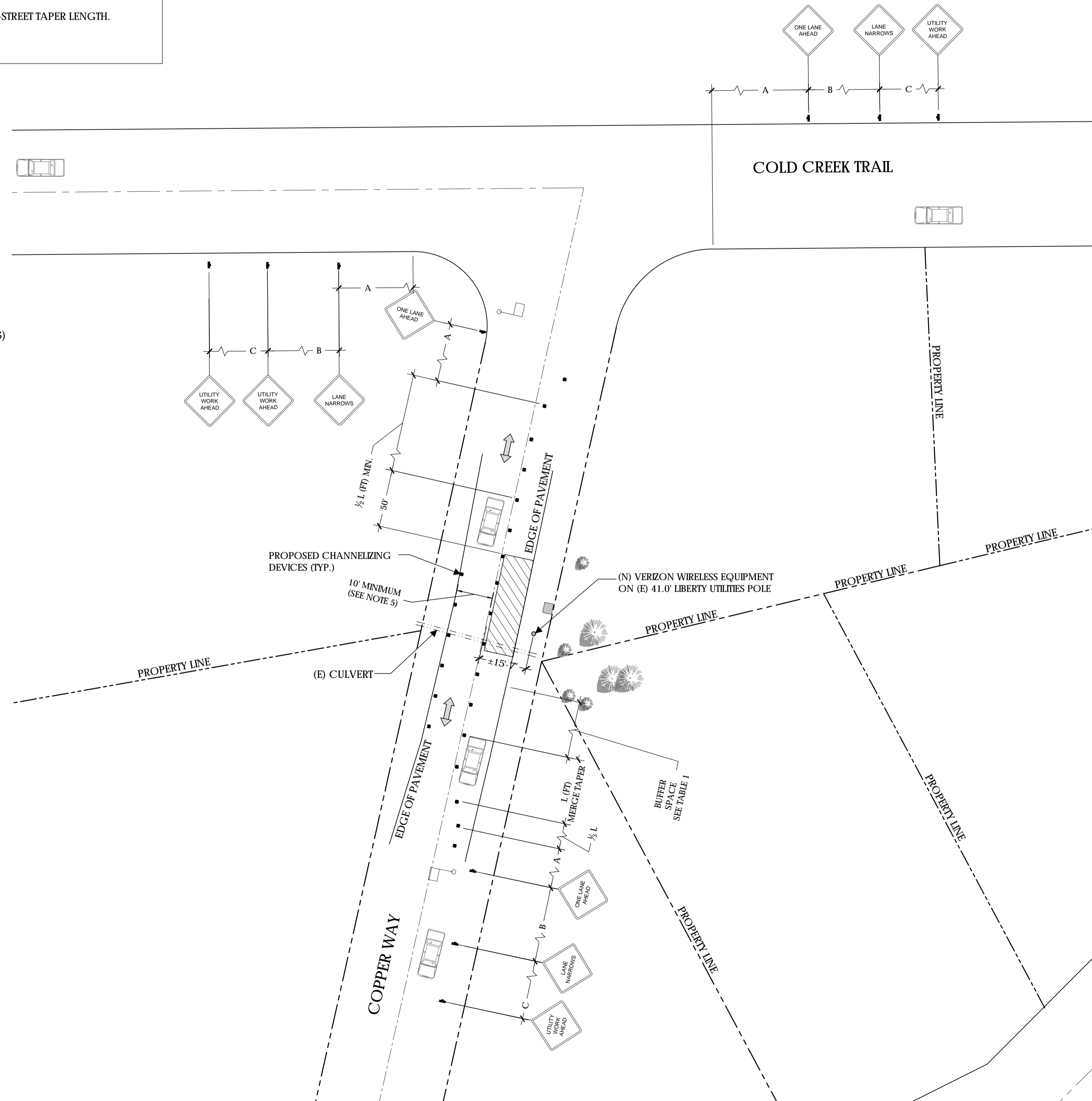


TABLE 1

POSTED SPEED (MPH)	DISTANCE BETWEEN SIGNS			TAPER L (SEE NOTE)	BUFFER
	A	B	C		
15	100'	100'	100'	45'	100'
20	100'	100'	100'	80'	115'
25	100'	100'	100'	125'	155'
30	200'	200'	200'	180'	200'
35	200'	200'	200'	245'	250'
40	350'	350'	350'	320'	305'
45	350'	350'	350'	540'	360'
50	500'	500'	500'	600'	425'
55	500'	500'	500'	660'	495'
60	500'	500'	500'	720'	570'
65	500'	500'	500'	780'	645'

- NOTES:**
- A) DISTANCES IN FEET UNLESS OTHERWISE NOTED.
 - B) CONTRACTOR TO VERIFY EXISTING SPEED LIMIT.
 - C) DISTANCES SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS. CONSULT STATE DOT MANUAL FOR DISTANCES.
 - D) ADJUST DISTANCES TO COMPLY WITH REQUIREMENT OF THE STATE OR LOCAL HIGHWAY AUTHORITY HAVING JURISDICTION. SEE NOTE 1, SHEET TC-2.
 - E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH.



Verizon Wireless
2785 Mitchell Drive, Suite 9
Walnut Creek, CA 94598

Client:



Project Architect:



Site Agent:

100% Construction Drawings
(E) LIGHT POLE
Drawing Phase:

SC SOUTH LAKE
TAHOE 060
PROW COPPER WAY
(NEAR) 2611 COPPER WAY
SOUTH LAKE TAHOE, CA 96150
PSL #471233

Site Name:



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Date: 04/03/18 Job No.:

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Designed By: JG Checked: RB

VEHICLE TRAFFIC CONTROL PLAN

Sheet Title:

TC.1

Sheet No.:

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Existing



view from High Meadow Trail looking north at site
SC South Lake Tahoe 075
(NEAR) HIGH MEADOW TRAIL, SOUTH LAKE TAHOE, CA
Photosims Produced on 4-5-2018

Proposed



Exhibit F1

Existing



Proposed



view from High Meadow Trail looking east at site

view from Copper Way looking southwest at site

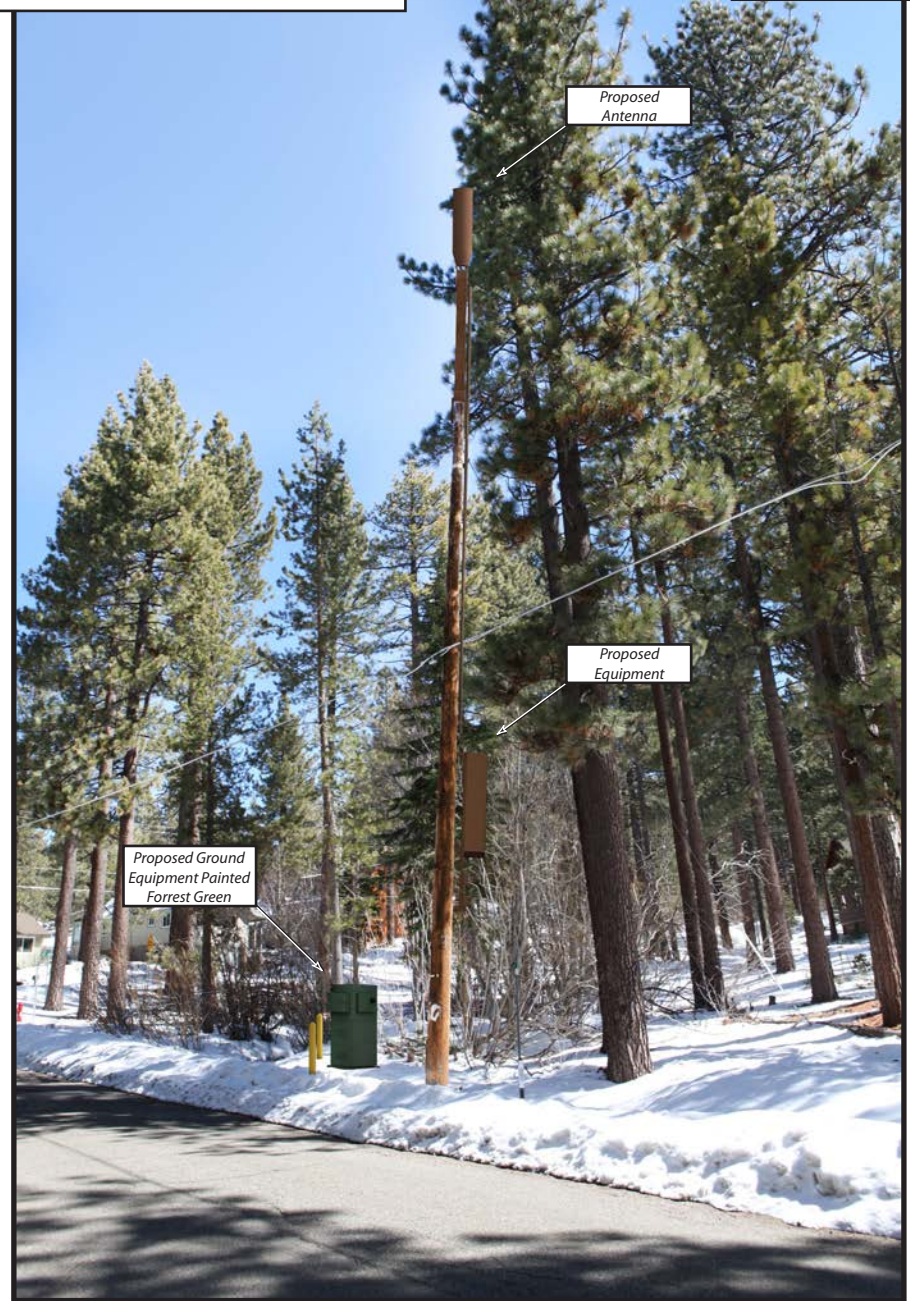


SC South Lake Tahoe 060
(NEAR) 2611 COPPER WAY, SOUTH LAKE TAHOE, CA
Photosims Produced on 4-3-2018

Existing



Proposed



Proposed
Antenna

Proposed
Equipment

Proposed Ground
Equipment Painted
Forrest Green

Exhibit F2

Existing



Proposed



view from Copper Way looking north at site

**Verizon Wireless • Proposed Small Cell (No. 481972 “SC South Lake Tahoe 075”)
High Meadow Trail • South Lake Tahoe, California**

PLANNING DEPARTMENT

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Verizon Wireless, a personal wireless telecommunications carrier, to evaluate its small cell (No. 481972 “SC South Lake Tahoe 075”) proposed to be sited in South Lake Tahoe, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

Executive Summary

Verizon proposes to install a cylindrical antenna on a utility pole sited in the public right-of-way near the intersection of High Meadow Trail and Pepperwood Trail in South Lake Tahoe. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standard

The U.S. Congress requires that the Federal Communications Commission (“FCC”) evaluate its actions for possible significant impact on the environment. A summary of the FCC’s human exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. The FCC limit for exposures of unlimited duration to radio frequency energy for various wireless services are as follows:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5–80 GHz	5.00 mW/cm ²	1.00 mW/cm ²
WiFi (and unlicensed uses)	2–6	5.00	1.00
BRS (Broadband Radio)	2,600 MHz	5.00	1.00
WCS (Wireless Communication)	2,300	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30–300	1.00	0.20

Power line frequencies (60 Hz) are well below the applicable range of this standard, and there is considered to be no compounding effect from simultaneous exposure to power line and radio frequency fields.

General Facility Requirements

Small cells typically consist of two distinct parts: the electronic transceivers (also called “radios”) that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The transceivers are



**Verizon Wireless • Proposed Small Cell (No. 481972 “SC South Lake Tahoe 075”)
High Meadow Trail • South Lake Tahoe, California**

typically mounted on the support pole or placed in a cabinet at ground level, and they are connected to the antennas by coaxial cables. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

The FCC provides direction for determining compliance in its Office of Engineering and Technology Bulletin No. 65, “Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation,” dated August 1997. Figure 2 describes the calculation methodologies, reflecting the facts that a directional antenna’s radiation pattern is not fully formed at locations very close by (the “near-field” effect) and that at greater distances the power level from an energy source decreases with the square of the distance from it (the “inverse square law”). The conservative nature of this method for evaluating exposure conditions has been verified by numerous field tests.

Site and Facility Description

Based upon information provided by Verizon, including drawings by Meridian Management LLC, dated March 26, 2018, it is proposed to install one Amphenol Model CUUT360X12F 4-foot tall, omnidirectional cylindrical antenna on an extension above the top of the existing utility pole sited in the public right-of-way on the north side of High Meadow Trail, near its intersection with Pepperwood Trail in South Lake Tahoe. The antenna would employ no downtilt and would be mounted at an effective height of about 48½ feet above ground. The maximum effective radiated power in any direction would be 2,240 watts, representing simultaneous operation at 840 watts for AWS, 750 watts for PCS, 340 watts for cellular, and 310 watts for 700 MHz service. There are reported no other wireless base stations at the site or nearby.

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed Verizon operation is calculated to be 0.010 mW/cm², which is 1.3% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building is 1.4% of the public exposure limit. It should be noted that these results include several “worst-case” assumptions and therefore are expected to overstate actual power density levels from the proposed operation.



**Verizon Wireless • Proposed Small Cell (No. 481972 “SC South Lake Tahoe 075”)
High Meadow Trail • South Lake Tahoe, California**

Recommended Mitigation Measures

Due to its mounting location and height, the antenna would not be accessible to unauthorized persons, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of personal monitor use, be provided to all authorized personnel who have access to the antenna. No access within 7 feet at the same height as the antenna, such as might occur during certain maintenance activities at the top of the pole, should be allowed while the small cell is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that an explanatory sign* be posted at the antenna and/or on the pole below the antenna, readily visible from any angle of approach to persons who might need to work within that distance.

Conclusion

Based on the information and analysis above, it is the undersigned’s professional opinion that operation of the small cell proposed by Verizon Wireless near the intersection of High Meadow Trail and Pepperwood Trail in South Lake Tahoe, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating small cells. Training authorized personnel and posting explanatory signs are recommended to establish compliance with occupational exposure limits.

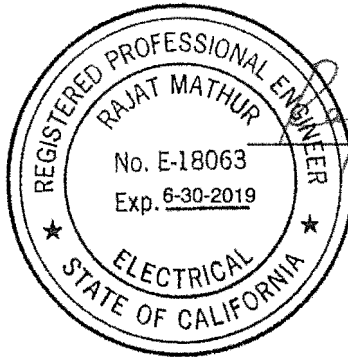
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**Verizon Wireless • Proposed Small Cell (No. 481972 "SC South Lake Tahoe 075")
High Meadow Trail • South Lake Tahoe, California**

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration No. E-18063, which expires on June 30, 2019. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.



Rajat Mathur

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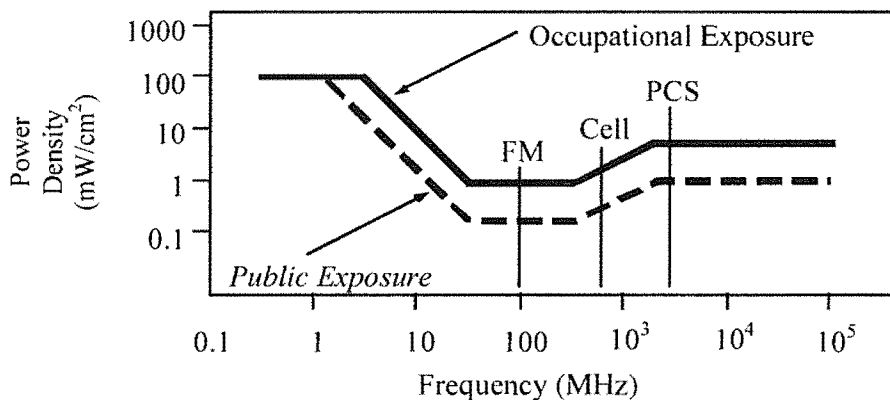
April 5, 2018

FCC Radio Frequency Protection Guide

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The FCC adopted the limits from Report No. 86, “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements (“NCRP”). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, “Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” includes similar limits. These limits apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

As shown in the table and chart below, separate limits apply for occupational and public exposure conditions, with the latter limits (in *italics* and/or dashed) up to five times more restrictive:

Frequency Applicable Range (MHz)	Electromagnetic Fields (<i>f</i> is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm ²)	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f²</i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f ²	<i>180/f²</i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√ <i>f</i>	<i>1.59√f</i>	√ <i>f</i> /106	<i>√f/238</i>	<i>f/300</i>	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has built those formulas into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radio sources. The program allows for the description of buildings and uneven terrain, if required to obtain more accurate projections.



RFR.CALC™ Calculation Methodology

Assessment by Calculation of Compliance with FCC Exposure Guidelines

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The maximum permissible exposure limits adopted by the FCC (see Figure 1) apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits.

Near Field.

Prediction methods have been developed for the near field zone of panel (directional) and whip (omnidirectional) antennas, typical at wireless telecommunications base stations, as well as dish (aperture) antennas, typically used for microwave links. The antenna patterns are not fully formed in the near field at these antennas, and the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) gives suitable formulas for calculating power density within such zones.

For a panel or whip antenna, power density $S = \frac{180}{\Omega_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm²,

and for an aperture antenna, maximum power density $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$, in mW/cm²,

- where Ω_{BW} = half-power beamwidth of the antenna, in degrees, and
 P_{net} = net power input to the antenna, in watts,
 D = distance from antenna, in meters,
 h = aperture height of the antenna, in meters, and
 η = aperture efficiency (unitless, typically 0.5-0.8).

The factor of 0.1 in the numerators converts to the desired units of power density.

Far Field.

OET-65 gives this formula for calculating power density in the far field of an individual RF source:

$$\text{power density } S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}, \text{ in mW/cm}^2,$$

- where ERP = total ERP (all polarizations), in kilowatts,
RFF = relative field factor at the direction to the actual point of calculation, and
D = distance from the center of radiation to the point of calculation, in meters.

The factor of 2.56 accounts for the increase in power density due to ground reflection, assuming a reflection coefficient of 1.6 (1.6 x 1.6 = 2.56). The factor of 1.64 is the gain of a half-wave dipole relative to an isotropic radiator. The factor of 100 in the numerator converts to the desired units of power density. This formula has been built into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radiation sources. The program also allows for the description of uneven terrain in the vicinity, to obtain more accurate projections.



Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Verizon Wireless, a personal wireless telecommunications carrier, to evaluate its small cell (No. 471233 “SC South Lake Tahoe 060”) proposed to be sited in South Lake Tahoe, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

Executive Summary

Verizon proposes to install a cylindrical antenna on a utility pole sited in the public right-of-way near 2611 Copper Way in South Lake Tahoe. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standard

The U.S. Congress requires that the Federal Communications Commission (“FCC”) evaluate its actions for possible significant impact on the environment. A summary of the FCC’s human exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. The FCC limit for exposures of unlimited duration to radio frequency energy for various wireless services are as follows:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5–80 GHz	5.00 mW/cm ²	1.00 mW/cm ²
WiFi (and unlicensed uses)	2–6	5.00	1.00
BRS (Broadband Radio)	2,600 MHz	5.00	1.00
WCS (Wireless Communication)	2,300	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30–300	1.00	0.20

Power line frequencies (60 Hz) are well below the applicable range of this standard, and there is considered to be no compounding effect from simultaneous exposure to power line and radio frequency fields.

General Facility Requirements

Small cells typically consist of two distinct parts: the electronic transceivers (also called “radios”) that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The transceivers are typically mounted on the support pole or placed in a cabinet at ground level, and they are connected to



**Verizon Wireless • Proposed Small Cell (No. 471233 “SC South Lake Tahoe 060”)
2611 Copper Way • South Lake Tahoe, California**

the antennas by coaxial cables. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

The FCC provides direction for determining compliance in its Office of Engineering and Technology Bulletin No. 65, “Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation,” dated August 1997. Figure 2 describes the calculation methodologies, reflecting the facts that a directional antenna’s radiation pattern is not fully formed at locations very close by (the “near-field” effect) and that at greater distances the power level from an energy source decreases with the square of the distance from it (the “inverse square law”). The conservative nature of this method for evaluating exposure conditions has been verified by numerous field tests.

Site and Facility Description

Based upon information provided by Verizon, including drawings by Meridian Management LLC, dated March 27, 2018, it is proposed to install one Amphenol Model CUUT360X12F 4-foot tall, omnidirectional cylindrical antenna on an extension above the top of the existing utility pole sited in the public right-of-way on the east side of Copper Way, about 100 feet south of Cold Creek Trail in South Lake Tahoe. The antenna would employ no downtilt and would be mounted at an effective height of about 51½ feet above ground. The maximum effective radiated power in any direction would be 2,240 watts, representing simultaneous operation at 840 watts for AWS, 750 watts for PCS, 340 watts for cellular, and 310 watts for 700 MHz service. There are reported no other wireless base stations at the site or nearby.

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed Verizon operation is calculated to be 0.0029 mW/cm², which is 0.54% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building is 0.49% of the public exposure limit. It should be noted that these results include several “worst-case” assumptions and therefore are expected to overstate actual power density levels from the proposed operation.

**Verizon Wireless • Proposed Small Cell (No. 471233 “SC South Lake Tahoe 060”)
2611 Copper Way • South Lake Tahoe, California**

Recommended Mitigation Measures

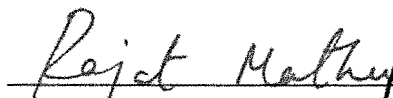
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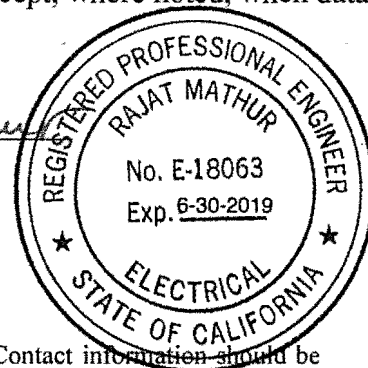
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April 5, 2018

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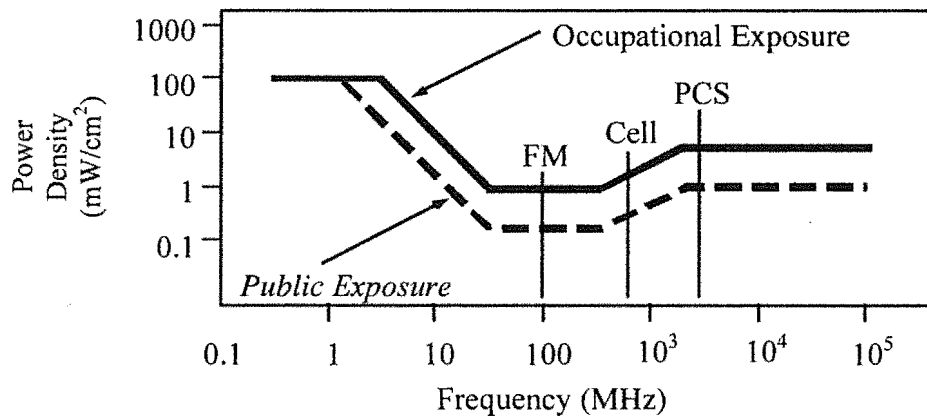


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