



DEPARTMENT OF PLANNING AND BUILDING

THIS IS A NEW PROJECT REFERRAL

DATE: 1/27/2015

TO: \_\_\_\_\_

FROM: Megan Martin (805-781-4163 or mamartin@co.slo.ca.us)  
Coastal Team / Development Review

**PROJECT DESCRIPTION:** DRC2014-00074 NSA WIRELESS – Proposed minor use permit to install a Verizon micro cell omni antenna on top of a utility pole and one cabinet placed in right-of-way for associated equipment. Site location is west corner (adjacent to 073-181-027) of Adobe Road and San Luisito Creek Road, Morro Bay. APN: 000-000-000

Return this letter with your comments attached no later than: 14 days from receipt of this referral. CACs please respond within 60 days. Thank you.

PART 1 - IS THE ATTACHED INFORMATION ADEQUATE TO COMPLETE YOUR REVIEW?

- YES (Please go on to PART II.)
- NO (Call me ASAP to discuss what else you need. We have only 10 days in which we must obtain comments from outside agencies.)

PART II - ARE THERE SIGNIFICANT CONCERNS, PROBLEMS OR IMPACTS IN YOUR AREA OF REVIEW?

- YES (Please describe impacts, along with recommended mitigation measures to reduce the impacts to less-than-significant levels, and attach to this letter)
- NO (Please go on to PART III)

PART III - INDICATE YOUR RECOMMENDATION FOR FINAL ACTION.

Please attach any conditions of approval you recommend to be incorporated into the project's approval, or state reasons for recommending denial.

IF YOU HAVE "NO COMMENT," PLEASE SO INDICATE, OR CALL.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name

\_\_\_\_\_  
Phone

# 1. General APPLICATION for

San Luis Obispo County Department of Planning and Bui

VERIZON MICRO CELL OMNI ANTENNA  
PLACED ON TOP OF UTILITY POLE. ONE  
/

### APPLICATION TYPE CHECK ALL THAT APPLY

- Emergency Permit
- Zoning Clearance
- Conditional Use Permit/Development Plan
- Surface Mining/Reclamation Plan
- Other
- Tree Permit
- Site Plan
- Curb, Gutter & Sidewalk Waiver
- Modification to approved land use permit
- Plot Plan
- Minor Use Permit
- Variance

### APPLICANT INFORMATION Check box for contact person assigned to this project

Landowner Name S.L.O. County Daytime Phone \_\_\_\_\_  
 Mailing Address \_\_\_\_\_ Zip \_\_\_\_\_  
 Email Address: \_\_\_\_\_

Applicant Name Verizon Wireless Daytime Phone 925-279-6541  
 Mailing Address 2785 Mitchell Dr. Walnut Creek Zip 94598  
 Email Address: jason.colon@verizonwireless.com

Agent Name Brooks Conley - NSA Wireless Daytime Phone 661-284-1509  
 Mailing Address 2010 Crow Cyn. Place San Ramon Zip 94521  
 Email Address: brooks.cconley@gmail.com

### PROPERTY INFORMATION

Total Size of Site: \_\_\_\_\_ Assessor Parcel Number(s): 073-181-027 (Not actual site)

Legal Description: \_\_\_\_\_  
 Address of the project (if known): \_\_\_\_\_

Directions to the site - describe first with name of road providing primary access to the site, then nearest roads, landmarks, etc.: SAN LUISITO CREEK ROAD & ADOBE ROAD

Describe current uses, existing structures, and other improvements and vegetation on the property:  
WOOD UTILITY POLE IN R.O.W.

### PROPOSED PROJECT

Describe the proposed project (inc. sq. ft. of all buildings): Verizon Micro Cell  
omni antenna placed on top of utility pole. One  
cabinet placed in R.O.W. for associated equipment.

### LEGAL DECLARATION

I, the owner of record of this property have completed this form accurately and declare that all statement here are true. I do hereby grant official representatives of the county authorization to inspect the subject property.

Property owner signature \_\_\_\_\_ Date \_\_\_\_\_

### FOR STAFF USE ONLY

Reason for Land Use Permit: \_\_\_\_\_

## 2. LAND USE PERMIT APPLICATION

San Luis Obispo County Department of Planning and Building File No \_\_\_\_\_

Type of project:  Commercial  Industrial  Residential  
 Recreational  Other

Describe any modifications/adjustments from ordinance needed and the reason for the request (if applicable): N/A

Describe existing and future access to the proposed project site: R.O.W on corner of SAN LUISITO CREEK and Adobe Road

Surrounding parcel ownership: Do you own adjacent property?  Yes  No  
 If yes, what is the acreage of all property you own that surrounds the project site?: \_\_\_\_\_

Surrounding land use: What are the uses of the land surrounding your property (when applicable, please specify all agricultural uses):

North: Residential South: Residential  
 East: Residential West: Residential

For all projects answer the following:

Square footage and percentage of the total site (approximately) that will be used for the following:

Buildings: \_\_\_\_\_ sq. feet \_\_\_\_\_ % Landscaping: \_\_\_\_\_ sq. feet \_\_\_\_\_ %  
 Paving: \_\_\_\_\_ sq. feet \_\_\_\_\_ % Other (specify) EQUIPMENT cabinet 7 sq. feet

Total area of all paving and structures: concrete pad 7  sq. feet  acres

Total area of grading or removal of ground cover: 7  sq. feet  acres

Number of parking spaces proposed: 0 Height of tallest structure: 45' 3"

Number of trees to be removed: 0 Type: \_\_\_\_\_

Setbacks: Front N/A Right N/A Left N/A Back N/A

Proposed water source:  On-site well  Shared well  Other \_\_\_\_\_ N/A

Community System - List the agency or company responsible for provision: \_\_\_\_\_

Do you have a valid will-serve letter?  Yes If yes, please submit copy  No

Proposed sewage disposal:  Individual on-site system  Other \_\_\_\_\_ N/A

Community System - List the agency or company responsible for sewage disposal: \_\_\_\_\_

Do you have a valid will-serve letter?  Yes If yes, please submit copy  No

Fire Agency: - List the agency responsible for fire protection: Cayucos F.D.

For commercial/industrial projects answer the following:

Total outdoor use area: 7  sq. feet  acres

Total floor area of all structures including upper stories: cabinet = 7 sq. feet

For residential projects, answer the following: N/A

Number of residential units: \_\_\_\_\_ Number of bedrooms per unit: \_\_\_\_\_

Total floor area of all structures including upper stories, but not garages and carports: \_\_\_\_\_

Total of area of the lot(s) minus building footprint and parking spaces: \_\_\_\_\_

### 3. ENVIRONMENTAL DESCRIPTION FORM

San Luis Obispo County Department of Planning and Building File No \_\_\_\_\_

The California Environmental Quality Act (CEQA) requires all state and local agencies to consider and mitigate environmental impacts for their own actions and when permitting private projects. The Act also requires that an environmental impact report (EIR) be prepared for all actions that may significantly affect the quality of the environment. The information you provide on this form will help the Department of Planning and Building determine whether or not your project will significantly affect the quality of the environment.

To ensure that your environmental review is completed as quickly as possible, please remember to:

Answer ALL of the questions as accurately and completely as possible.

Include any additional information or explanations where you believe it would be helpful or where required. Include additional pages if needed.

If you are requesting a land division or a re-zoning, be sure to include complete information about future development that may result from the proposed land division or rezoning.

Include references to any reports or studies you are aware of that might be relevant to the questions asked or the answers you provide.

Should a determination be made that the information is inaccurate or insufficient, you will be required to submit additional information upon request.

#### Physical Site Characteristic Information

Your site plan will also need to show the information requested here

1. Describe the topography of the site:  
Level to gently rolling, 0-10% slopes: Less than 1 acres  
Moderate slopes of 10-30%: \_\_\_\_\_ acres  
Steep slopes over 30%: \_\_\_\_\_ acres
2. Are there any springs, streams, lakes or marshes on or near the site?  Yes  No  
If yes, please describe: \_\_\_\_\_
3. Are there any flooding problems on the site or in the surrounding area  Yes  No  
If yes, please describe: \_\_\_\_\_
4. Has a drainage plan been prepared?  Yes  No N/A  
If yes, please include with application.
5. Has there been any grading or earthwork on the project site?  Yes  No  
If yes, please explain: \_\_\_\_\_
6. Has a grading plan been prepared?  Yes  No N/A  
If yes, please include with application.
7. Are there any sewer ponds/waste disposal sites on/adjacent to the project?  Yes  No
8. Is a railroad or highway within 300 feet of your project site?  Yes  No
9. Can the proposed project be seen from surrounding public roads?  Yes  No  
If yes, please list: Highway 1

**Water Supply Information**

1. What type of water supply is proposed? *N/A*  
 Individual well       Shared well       Community water system
2. What is the proposed use of the water?  
 Residential       Agricultural: explain \_\_\_\_\_  
 Commercial/Office: explain \_\_\_\_\_  
 Industrial: explain \_\_\_\_\_
3. What is the expected daily water demand associated with the project? \_\_\_\_\_
4. How many service connections will be required? \_\_\_\_\_
5. Do operable water facilities exist on the site?  
 Yes       No      If yes, please describe: \_\_\_\_\_
6. Has there been a sustained yield test on proposed or existing wells?  
 Yes       No      If yes please attach \_\_\_\_\_
7. Does water meet the Health Agency's quality requirements?  
Bacteriological?  Yes       No      Chemical?  Yes       No  
Physical?  Yes       No      Water analysis report submitted?  Yes       No
8. Please check if any of the following have been completed on the subject property and/or submitted to County Environmental Health.  
 Well Driller's Letter       Water Quality Analysis       OK      or       Problems  
 Will Serve Letter       Pump Test \_\_\_\_\_ Hours \_\_\_\_\_ GPM  
 Surrounding Well Logs       Hydrologic Study       Other \_\_\_\_\_

*Please attach any letters or documents to verify that water is available for the proposed project.*

**Sewage Disposal Information** *N/A*

*If an on-site (individual) subsurface sewage disposal system will be used:*

1. Has an engineered percolation test been accomplished?  
 Yes       No      If yes, please attach a copy.
2. What is the distance from proposed leach field to any neighboring water wells? \_\_\_\_\_ feet
3. Will subsurface drainage result in the possibility of effluent reappearing in surface water or on adjacent lands, due to steep slopes, impervious soil layers or other existing conditions?  
 Yes       No
4. Has a piezometer test been completed?  Yes       No
5. Will a Waste Discharge Permit from the Regional Water Quality Control Board be required?  
 Yes       No  
*(a waste discharge permit is typically needed when you exceed 2,500 gallons per day)*

*If a community sewage disposal system is to be used:*

1. Is this project to be connected to an existing sewer line?  
 Yes       No      Distance to nearest sewer line: \_\_\_\_\_  
Location of connection: \_\_\_\_\_
2. What is the amount of proposed flow? \_\_\_\_\_ g.p.d.
3. Does the existing collection treatment and disposal system have adequate additional capacity to accept the proposed flow?  Yes       No *N/A*

**Solid Waste Information**

*N/A*

1. What type of solid waste will be generated by the project?  Domestic  Industrial  
 Agricultural  Other, please explain? \_\_\_\_\_
2. Name of Solid Waste Disposal Company: \_\_\_\_\_
3. Where is the waste disposal storage in relation to buildings? \_\_\_\_\_
4. Does your project design include an area for collecting recyclable materials and/or composting materials?  Yes  No

**Community Service Information**

1. Name of School District: Cayucos
2. Location of nearest police station: \_\_\_\_\_
3. Location of nearest fire station: Cayucos
4. Location of nearest public transit stop: \_\_\_\_\_
5. Are services (grocery / other shopping) within walking distance of the project?  Yes  No  
If yes, what is the distance? \_\_\_\_\_ feet / miles

**Historic and Archeological Information**

1. Please describe the historic use of the property: Right of Way
2. Are you aware of the presence of any historic, cultural or archaeological materials on the project site or in the vicinity?  Yes  No  
If yes, please describe: \_\_\_\_\_
3. Has an archaeological surface survey been done for the project site?  Yes  No  
If yes, please include two copies of the report with the application.

**Commercial/Industrial Project Information**

Only complete this section if you are proposing a commercial or industrial project or zoning change.

1. Days of Operation: 7 Hours of Operation: 24
2. How many people will this project employ? 6
3. Will employees work in shifts?  Yes  No N/A  
If yes, please identify the shift times and number of employees for each shift \_\_\_\_\_
4. Will this project produce any emissions (i.e. gasses, smoke, dust, odors, fumes, vapors,)?  
 Yes  No  
If yes, please explain: \_\_\_\_\_
5. Will this project increase the noise level in the immediate vicinity?  Yes  No  
If yes, please explain: \_\_\_\_\_  
(If loud equipment is proposed, please submit manufacturers estimate on noise output)
6. What type of industrial waste materials will result from the project? Explain in detail: NONE

7. Will hazardous products be used or stored on-site?  Yes  No  
 If yes, please describe in detail: \_\_\_\_\_
8. Has a traffic study been prepared?  Yes  No If yes, please attach a copy
9. Please estimate the number of employees, customer and other project-related traffic trips to or from the project  
 Between 7:00 - 9:00 a.m. 0 Between 4:00 to 6:00 p.m. 0
10. Are you proposing any special measures (carpooling, public transit, telecommuting) to reduce automobile trips by employees?  
 Yes  No If yes, please specify what you are proposing \_\_\_\_\_
11. Are you aware of any potentially problematic roadway conditions that may exist or result from the proposed project, such as poor sight distance at access points, connecting with the public road?  Yes  No  
 If yes, please describe \_\_\_\_\_

**Agricultural Information**

*Only complete this section: 1) within the Agricultural land use category or 2) your site is currently in agricultural production.*

1. Is the site currently in Agricultural Preserve (Williamson Act)?  Yes  No
2. If yes, is the site currently under land conservation contract?  Yes  No
3. If your land is currently vacant or in agricultural production, are there any restrictions on the crop productivity of the land? That is, are there any reasons (i.e. poor soil, steep slopes) the land cannot support a profitable agricultural crop? Please explain in detail: \_\_\_\_\_

**Special Project Information**

1. Describe any amenities included in the project, such as park areas, open spaces, common recreation facilities, etc. (these also need to be shown on your site plan): N/A
2. Will the development occur in phases?  Yes  No  
 If yes describe: \_\_\_\_\_
3. Do you have any plans for future additions, expansion or further activity related to or connected with this proposal?  Yes  No  
 If yes, explain: \_\_\_\_\_
4. Are there any proposed or existing deed restrictions?  Yes  No  
 If yes, please describe: \_\_\_\_\_

**Energy Conservation Information**

1. Describe any special energy conservation measures or building materials that will be incorporated into your project\*: N/A

\* The county's Building Energy Efficient Structures (BEES) program can reduce your construction permit fees. Your building must exceed the California State Energy Standards (Title 24) in order to qualify for this program. If you are interested in more information, please contact the Building Services Division of the Department of Planning and Building at (805) 781-5600.

**Environmental Information**

1. List any mitigation measures that you propose to lessen the impacts associated with your project: All paintable surfaces mounted to pole will be painted to match brown color of pole. Cabinet on ground to be painted green.
2. Are you aware of any unique, rare or endangered species (vegetation or wildlife) associated with the project site?  Yes  No  
If yes, please list: \_\_\_\_\_
3. Are you aware of any previous environmental determinations for all or portions of this property?  Yes  No  
If yes, please describe and provide "ED" number(s): \_\_\_\_\_

**Other Related Permits**

1. List all permits, licenses or government approvals that will be required for your project .  
(federal, state and local): Public Works Encroachment Permit for R.O.W.

*(If you are unsure if additional permits are required from other agencies, please ask a member of department staff currently assigned in either current planning or the environmental division)*



# SAN LUCITO CREEK SC1

(NEAR) 2710 SAN LUISITO CREEK ROAD  
SAN LUIS OBISPO, CA 93405

JPA Pole #129659  
Peoplesoft Project #N/A  
Peoplesoft Location #291696

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

Client:

V-ONE DESIGN  
5100 CLAYTON ROAD, B-1 SUITE 354  
CONCORD CA 94521

Design Firm:

100% CONSTRUCTION DRAWINGS  
Drawing Phase:

**SAN LUCITO CREEK SC1**  
(NEAR) 2710 SAN LUISITO CREEK ROAD  
SAN LUIS OBISPO, CA 93405  
291696

Site:

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.

**NSA Wireless, Inc.**

2010 Crow Canyon Place  
3rd Floor, Suite 355  
San Ramon, CA 94583  
Tel: 925.244.1890  
info@nsawireless.com

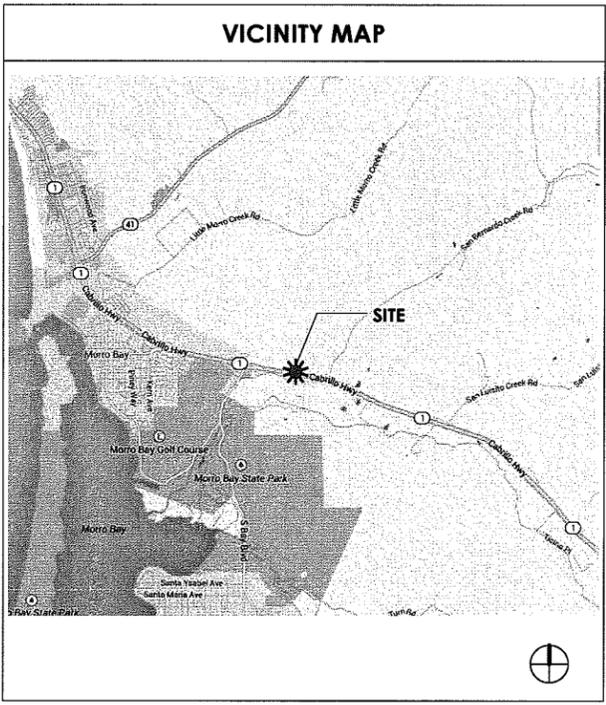
No.	Description	Date
1	100%CD DRAWINGS	09/17/14

Date: **09/17/14**  
Drawn By: **JS**  
Checked By: **RS**

**TITLE SHEET**

**T-1**

SITE INFORMATION	
PS PROJECT I.D. #:	N/A
OWNER:	JOINT POLE AUTHORITY
APPLICANT:	VERIZON WIRELESS 2785 MITCHELL DRIVE, SUITE #9 WALNUT CREEK, CA 94598
AGENT:	NSA WIRELESS BROOKS CONLEY 2010 CROW CANYON PLACE SAN RAMON, CA 94583 BROOKS CONLEY (925) 244-1890 brooks.conley@nsawireless.com
LEASING/ZONING:	CONTACT : BROOKS CONLEY (310) 938-0506 brooksconley@gmail.com
CONSTRUCTION:	CONTACT : ROGER SHARP (510) 918-9149 roger.sharp@nsawireless.com
APN:	ADJACENT TO APN: 073-181-027 (NEAR) 2710 SAN LUISITO CREEK ROAD SAN LUIS OBISPO, CA 93405
SITE ADDRESS:	
COUNTY:	SAN LUIS OBISPO
LATITUDE:	35° 21' 18.4" (NAD 83)
LONGITUDE:	-120° 47' 04.0" (NAD 83)
GROUND ELEV.:	104.5' AMSL
ZONING:	PUBLIC ROW
ZONING JURISDICTION:	CITY OF SAN LUIS OBISPO



PROJECT TEAM	
AGENT:	NSA WIRELESS BROOKS CONLEY 2010 CROW CANYON PLACE SAN RAMON, CA 94583 (925) 244-1890 brooks.conley@nsawireless.com
PROJECT MANAGER:	NSA WIRELESS CHRIS DURAND 2010 CROW CANYON PLACE SAN RAMON, CA 94583 (925) 244-1890 chris.durand@nsawireless.com
CONSTRUCTION MANAGER:	NSA WIRELESS ROGER SHARP 2010 CROW CANYON PLACE SAN RAMON, CA 94583 (510) 918-9149 roger.sharp@nsawireless.com
V-ONE PROJECT MANAGER:	RENE SANCHEZ 5100 CLAYTON ROAD, B01 SUITE 354 CONCORD, CA 94521 (925) 577-9800 rsanchez@v-onedesign.com
ARCHITECT OF RECORD:	V-ONE DESIGN GROUP 5100 CLAYTON ROAD, B-1 SUITE 354 CONCORD, CA 94521 (925) 639-1469
VERIZON WIRELESS	JASON COLON (925) 667-7065 jason.colon@wireless.com
VERIZON PROJECT MANAGER:	

**PROJECT DESCRIPTION**

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

**SCOPE OF WORK:**

- INSTALL NEW TELECOMMUNICATIONS EQUIPMENT BOXES ON AN EXISTING WOODEN POLE TO BE INSTALLED ON GO95 COMPLIANT STANDOFF BRACKET. CONSISTING OF (1) ELECTRICAL METER, (1) DISCONNECT BOX, (1) GPS ANTENNA, (2) RRUS, (1) GROUND MOUNTED SMALL CELL EQUIPMENT CABINET, (1) FUTURE CHARLES CABINET, AND (1) CYLINDRICAL ANTENNA
- ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL
- UTILITY LINES BETWEEN EXISTING POINT OF CONNECTION AND POLE TO BE UNDERGROUNDED AND/OR OVERHEAD.

DRAWING INDEX	
SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
C-1	SITE SURVEY
A-1	OVERALL SITE PLAN
A-2	ENLARGED SITE PLAN, EQUIPMENT PLAN & ELEVATION
A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	POLE EQUIPMENT ISO VIEWS, SMALL CELL CABINETS & SIGNAGE
A-6	CHARLES CABINET DETAILS AND PARCEL MAP
A-7	ANTENNA MOUNTING DETAILS
E-1	ELECTRICAL SPECS, NOTES, LEGEND & ABBREVIATIONS
E-2	ELECTRICAL GROUND DIAGRAMS
E-3	ELECT. SINGLE-LINE DIAGRAM & DETAILS

**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:

- 2013 CALIFORNIA BUILDING CODE, VOLUME 1 AND 2 (CBC)
- 2013 CALIFORNIA ELECTRICAL CODE (CEC)
- 2013 CALIFORNIA MECHANICAL CODE (CMC)
- 2013 CALIFORNIA PLUMBING CODE (CPC)
- 2013 CALIFORNIA CALIFORNIA FIRE CODE (CFC)
- 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2010 CALIFORNIA ENERGY CODE
- CITY / COUNTY ORDINANCES

**ACCESSIBILITY REQUIREMENTS:**

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH THE 2007 CALIFORNIA BUILDING CODE PART 2, TITLE 24, PART 2, VOLUME 1, CHAPTER 11B, SECTION 11238, EXCEPTION 1

**DRIVING DIRECTIONS**

**DIRECTIONS FROM VERIZON WIRELESS WALNUT CREEK OFFICE**

2785 Mitchell Dr  
Walnut Creek, CA 94598

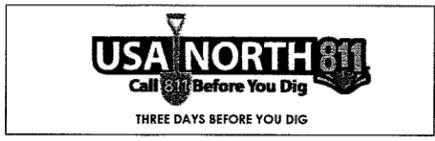
- Head northeast on Mitchell Dr toward Oak Grove Rd 30 #
- Turn right onto Oak Grove Rd 0.4 mi
- Take the 2nd right onto Ygnacio Valley Rd 3.5 mi
- Continue onto Hillside Ave 0.1 mi
- Turn left onto the Interstate 680 S ramp to San Jose 0.8 mi
- Merge onto I-680 S 45.6 mi
- Take the exit onto US-101 S toward Los Angeles 146 mi
- Take the Morro Rd/CA-41 exit 0.2 mi
- Turn right onto CA-41 S/Morro Rd 15.9 mi
- Turn left to merge onto CA-1 S 4.6 mi
- Turn left onto San Luisito Rd/San Luisito Creek Rd 427 #

Destination will be on the left

2710 San Luisito Creek Road  
San Luis Obispo, CA 931405

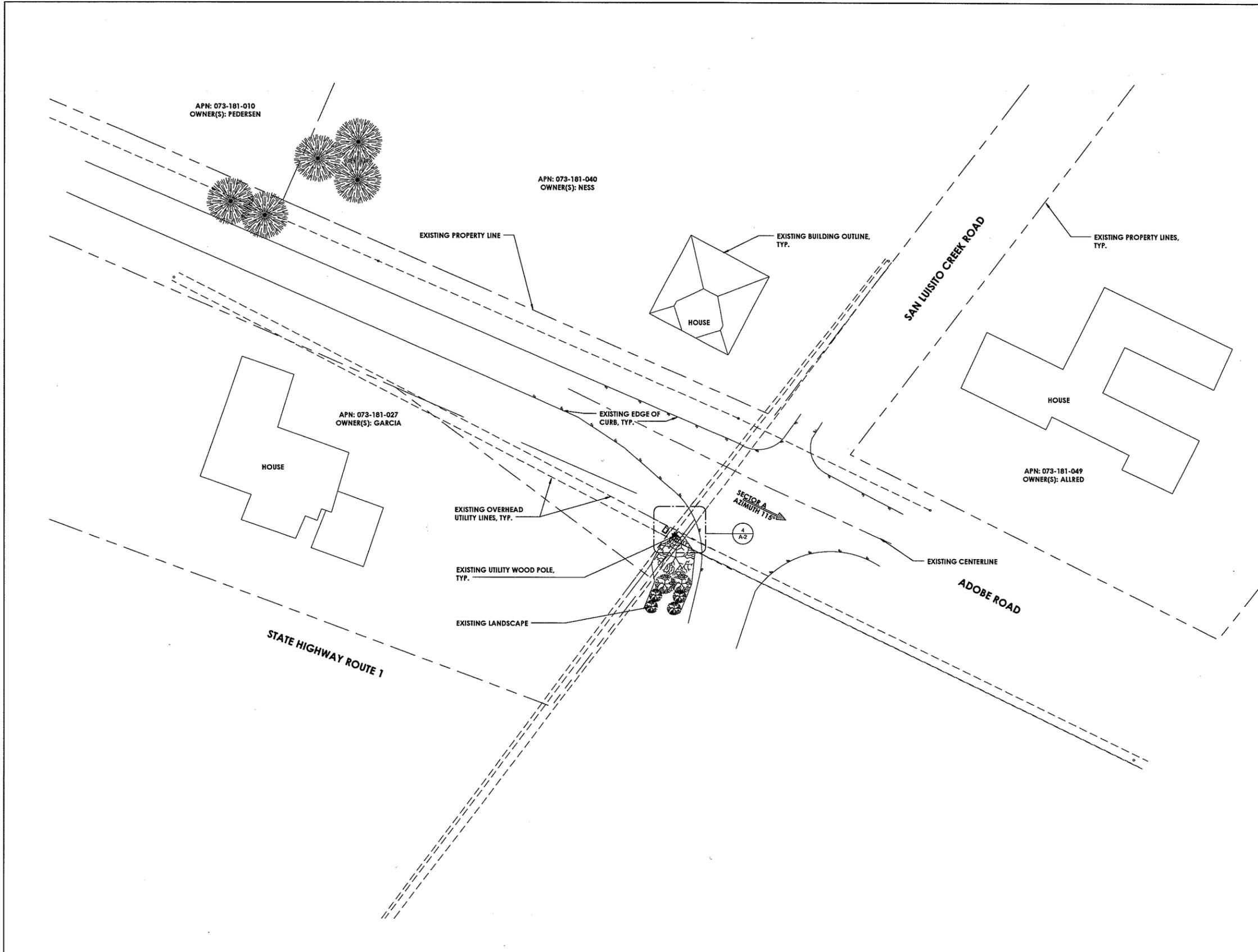
**ADMINISTRATIVE REQUIREMENTS**

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" x 17" PLOT. DRAWINGS WILL BE HALF SCALE









**verizon**wireless

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

Client:

V-ONE DESIGN GROUP INC.

V-ONE DESIGN  
5100 CLAYTON ROAD, B-1 SUITE 354  
CONCORD CA 94521

Design Firm:  
100% CONSTRUCTION DRAWINGS

Drawing Phase:

**SAN LUCITO CREEK SC1**  
(NEAR) 2710 SAN LUISITO CREEK ROAD  
SAN LUIS OBISPO, CA 93405  
291696

Site:

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.

**NSA Wireless, Inc.**

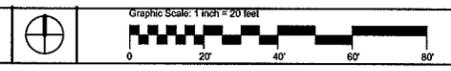
2010 Crow Canyon Place  
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info@nsawireless.com

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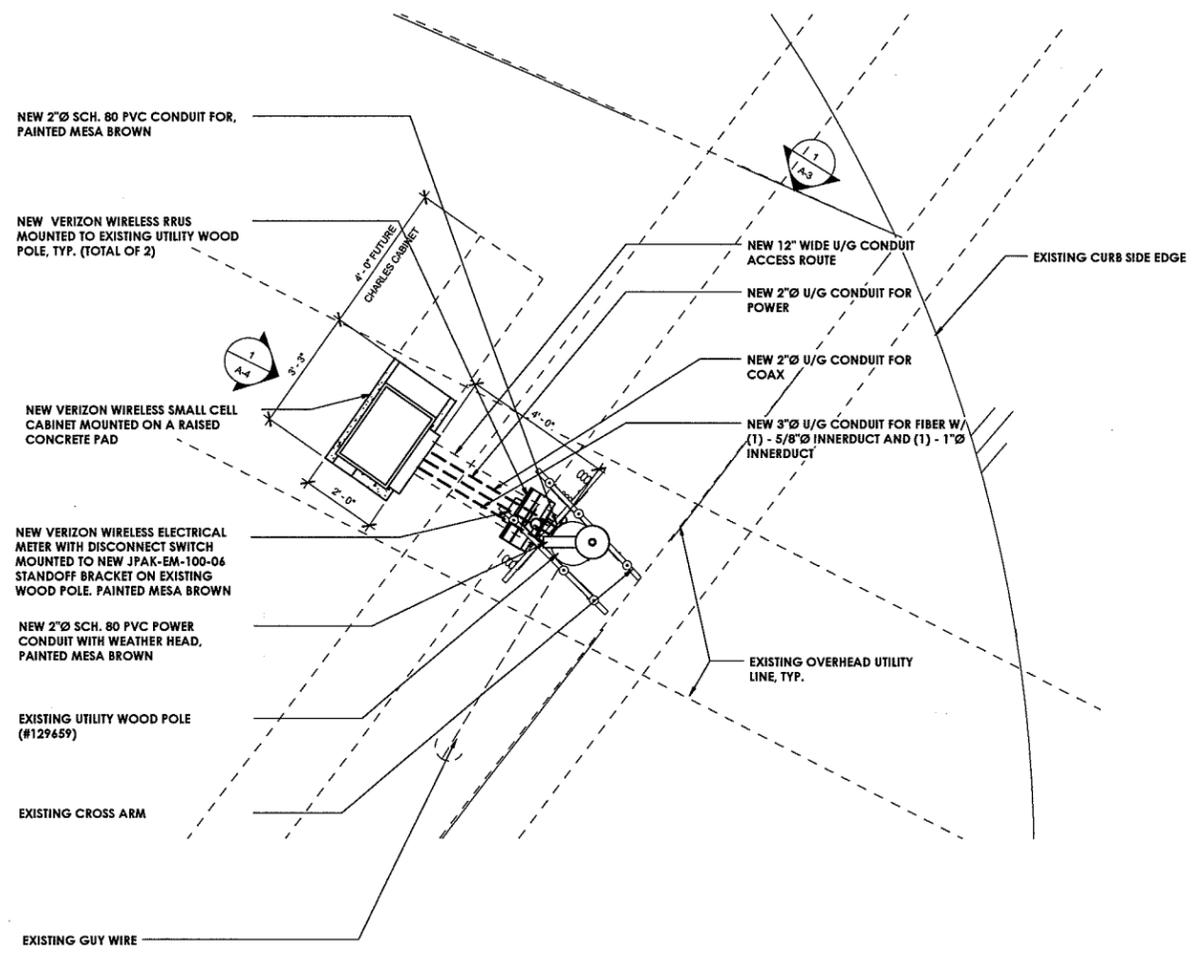
Date: 09/17/14  
Drawn By: JS  
Checked By: RS

**OVERALL SITE PLAN**

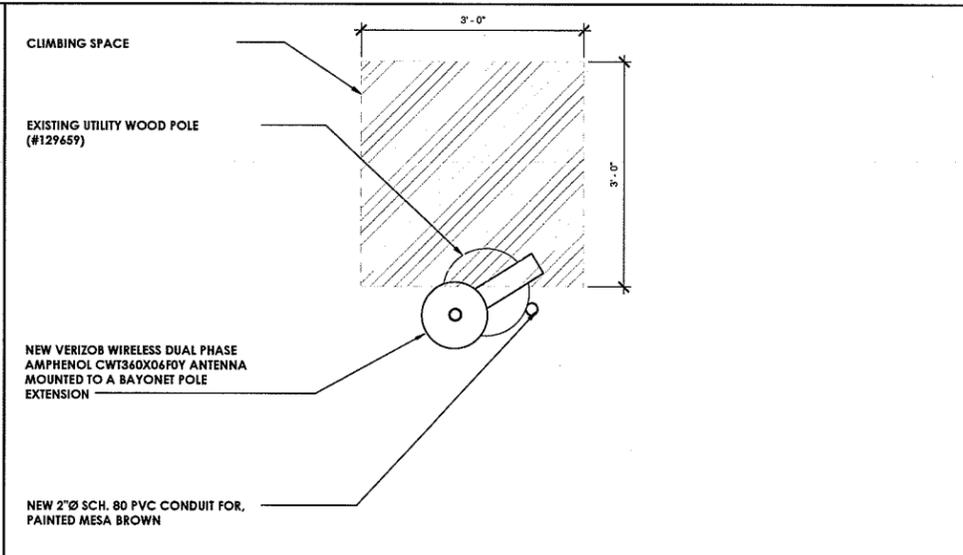
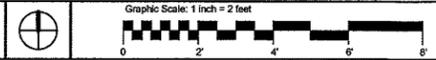
**A-1**



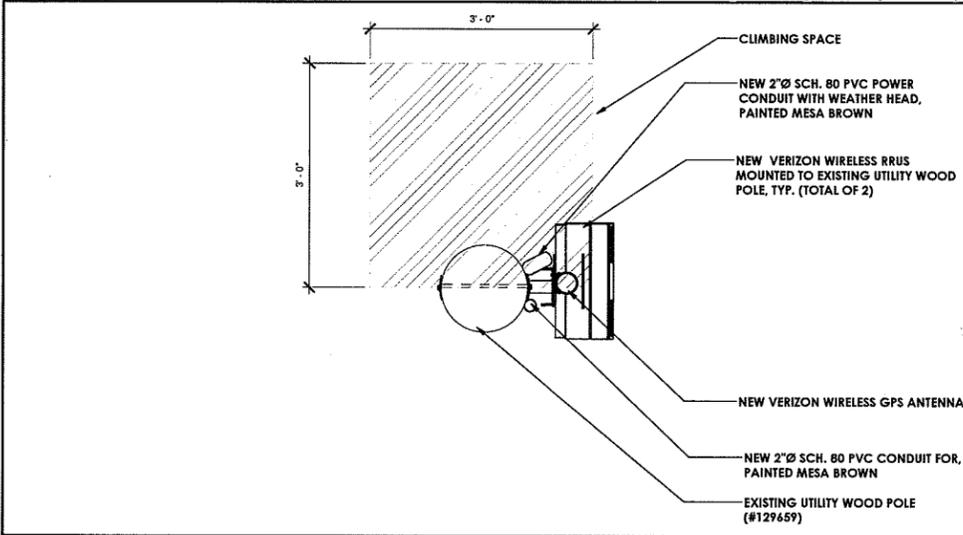
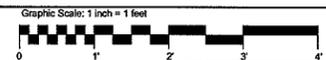
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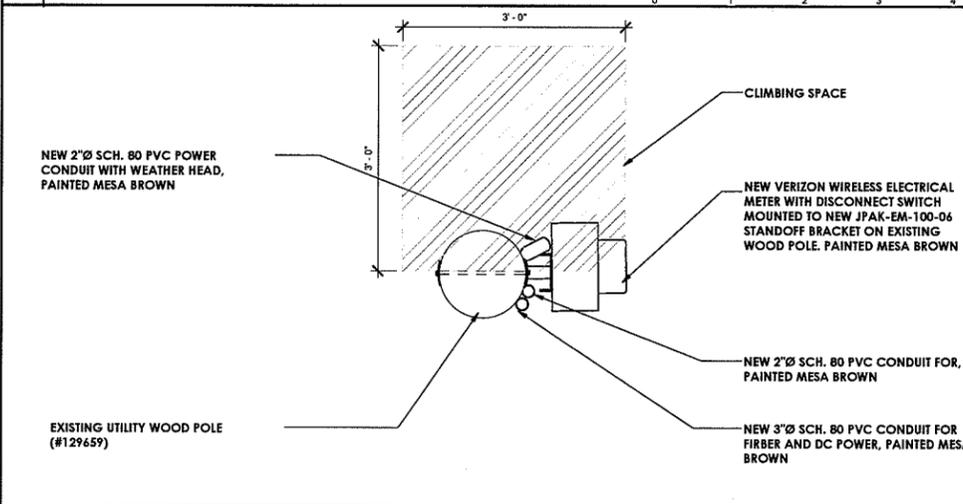
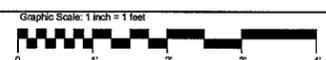
4 ENLARGED SITE PLAN



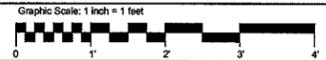
1 ANTENNA PLAN



2 RRUS PLAN



3 ELECTRICAL METER PLAN



**verizon**wireless

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

Client:

**One Design Group Inc.**  
V-ONE DESIGN  
5100 CLAYTON ROAD, B-1 SUITE 354  
CONCORD CA 94521

Design Firm:

100% CONSTRUCTION DRAWINGS

Drawing Phase:

**SAN LUCITO CREEK SC1**  
(NEAR) 2710 SAN LUISITO CREEK ROAD  
SAN LUIS OBISPO, CA 93405  
291696

Site:

PROFESSIONAL SEAL:  
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**NSA Wireless, Inc.**

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3rd Floor, Suite 355  
San Ramon, CA 94583  
Tel: 925.244.1890  
info@nsawireless.com

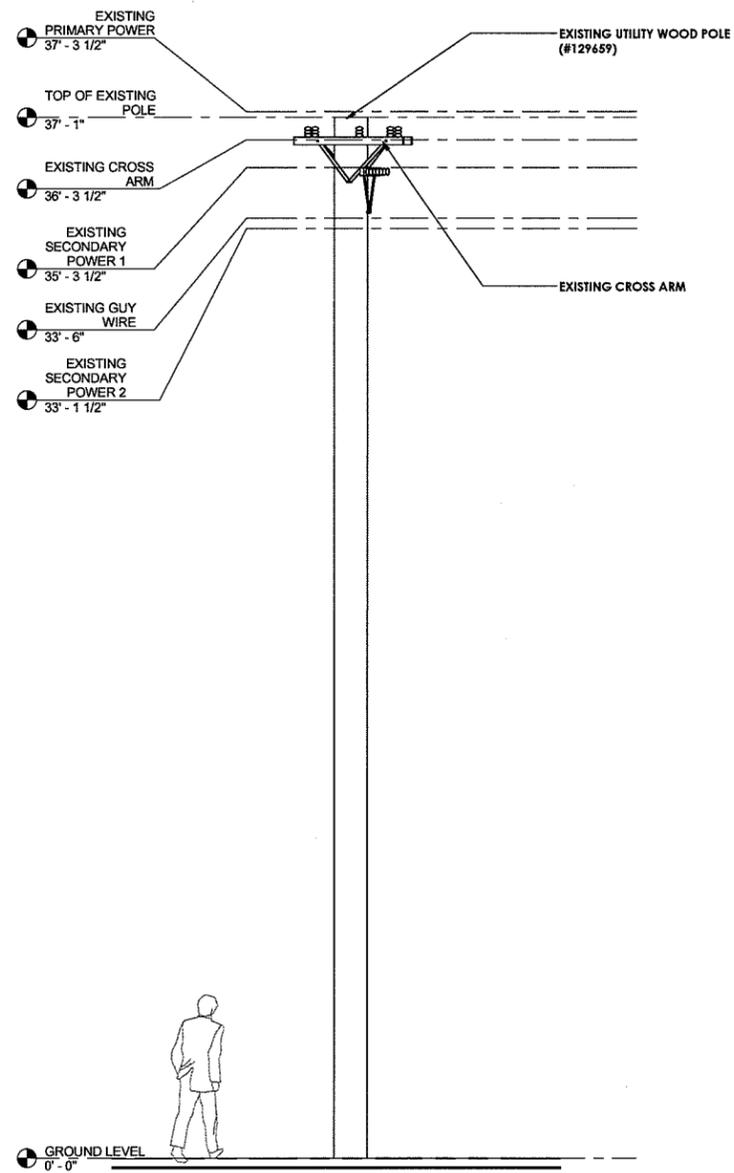
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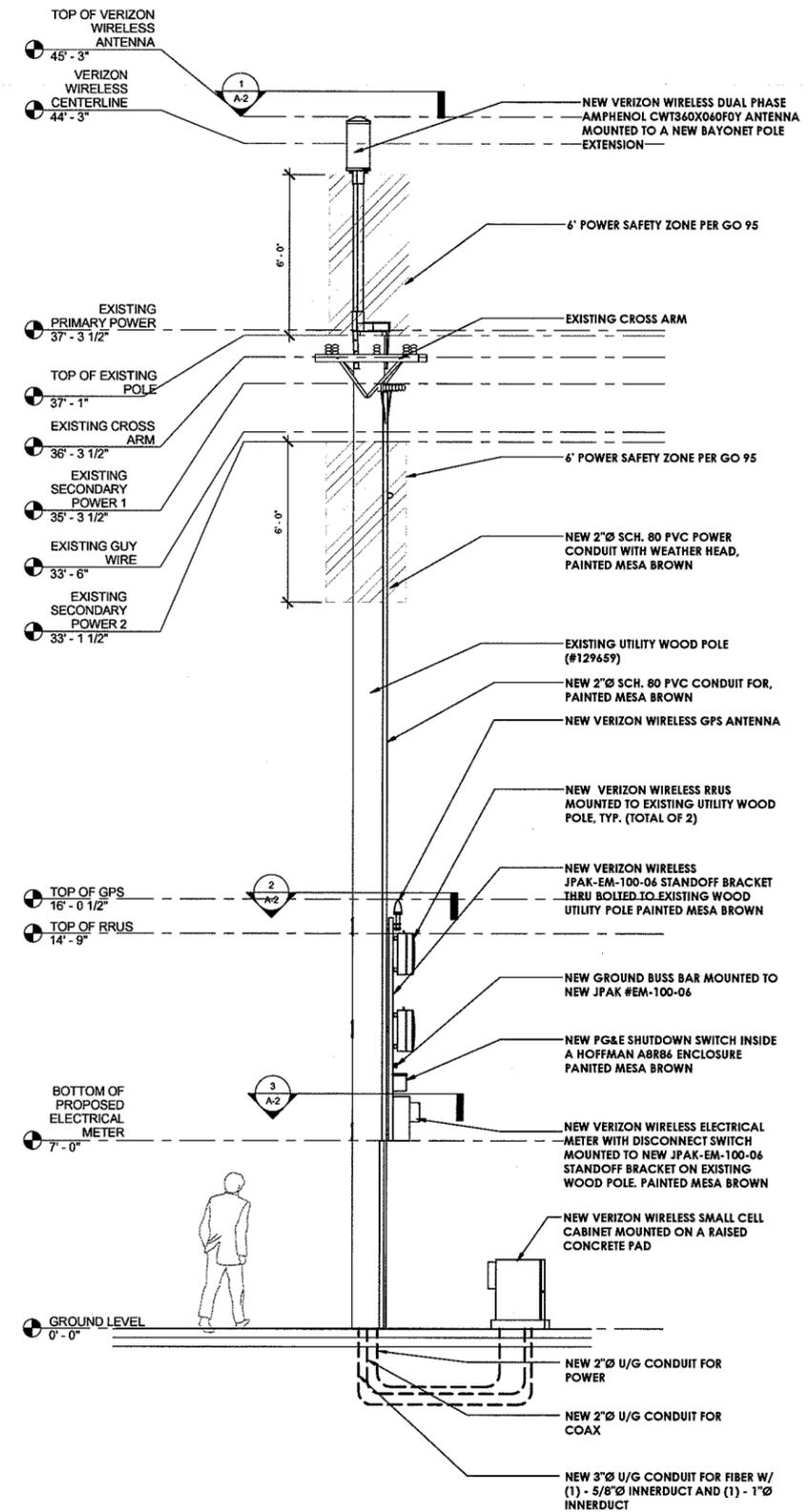
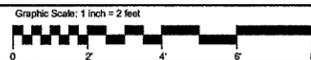
**ENLARGED SITE PLAN,  
EQUIPMENT PLAN &  
ELEVATION**

**A-2**

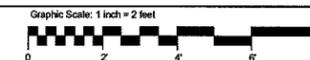
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2 EXISTING NORTH ELEVATION



1 PROPOSED NORTH ELEVATION



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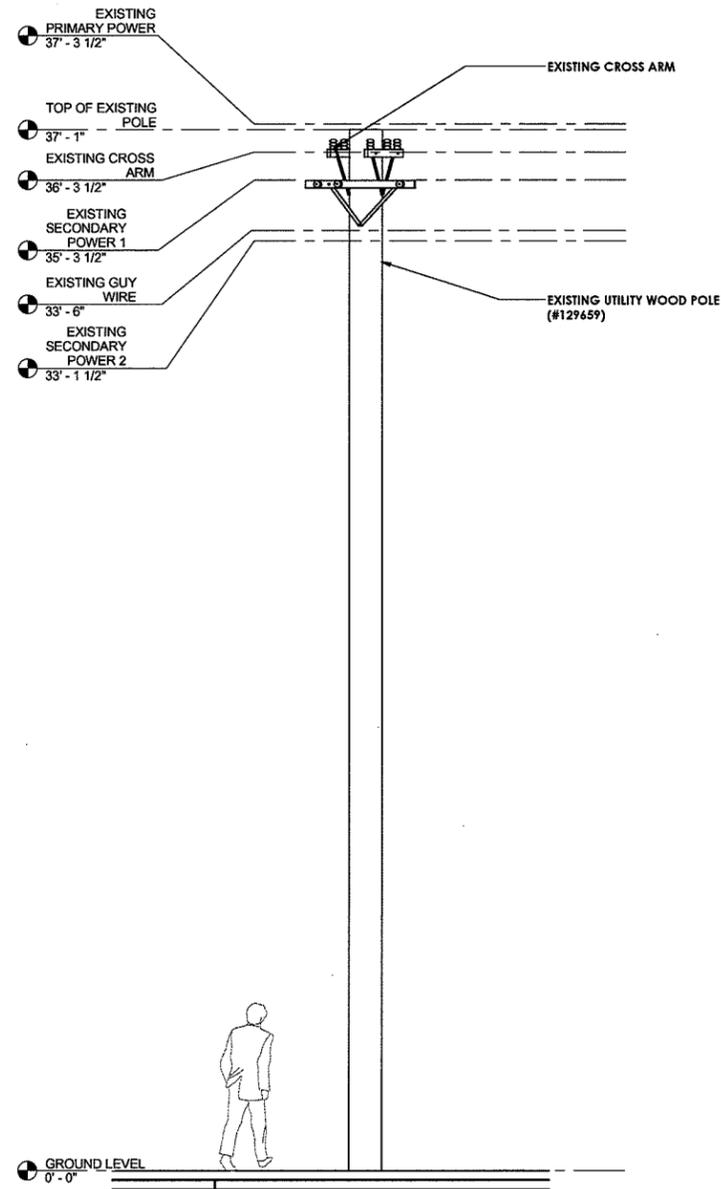
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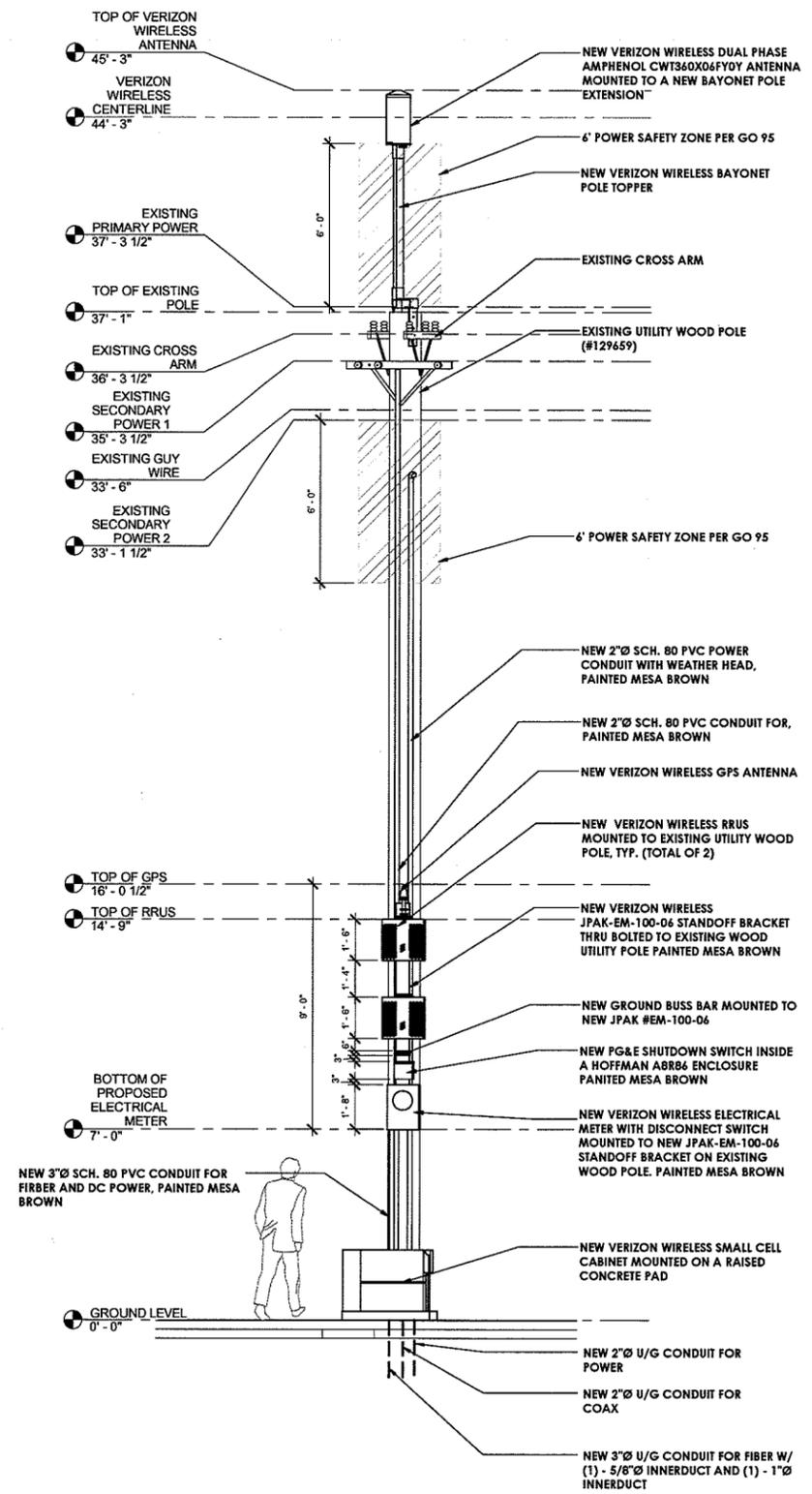
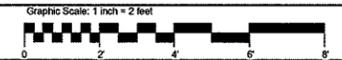
**ELEVATIONS**

**A-3**

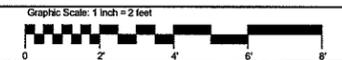
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2 EXISTING WEST ELEVATION



1 PROPOSED WEST ELEVATION



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Walnut Creek, CA 94598



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Design Firm:  
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Drawing Phase:

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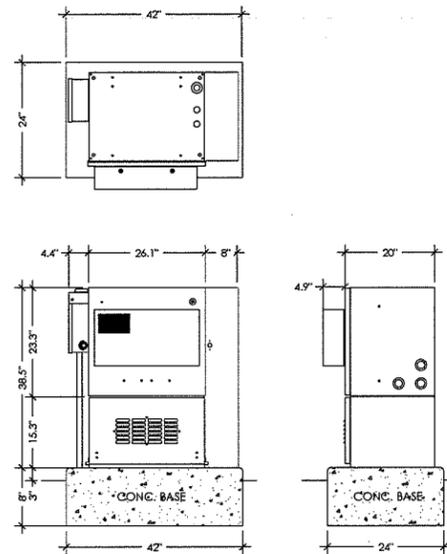
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Checked By: RS

**ELEVATIONS**

**A-4**

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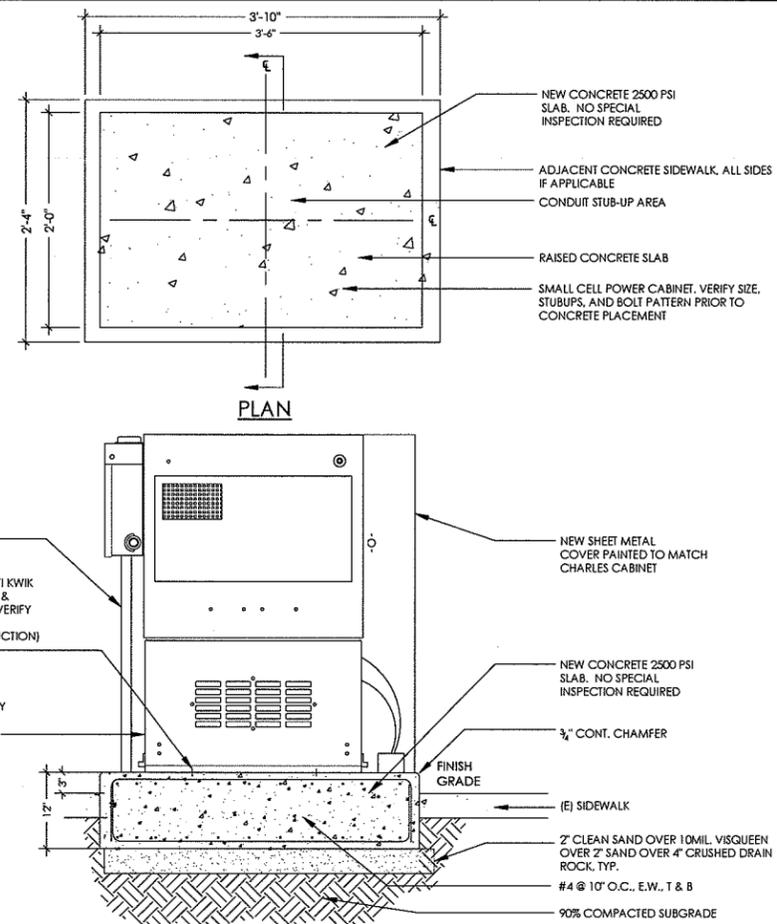




**Charles CUBE-RL**

- Wall/Pole/Pad Mount
- Equipment Compartment
  - 7 or 12 RU Configurations
  - Integrated power is optional
  - AC Load Center, GFCI
  - Pad Lockable Door Latch
  - 580W HX
- Battery Compartment
  - 100AH VRLA or Ni-Cd
- Overall Dimensions
  - 39"H x 26"W x 20"D for 12 RU Configuration
- Cable Ingress/Egress
  - 1.75"/2.5" Knockouts on side and bottom
- GR-487 Compliant

RL21221xxx  
(12RU)



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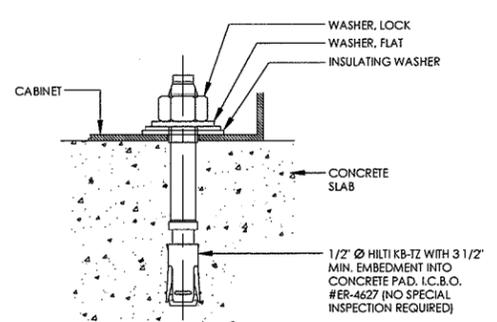
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**CHARLES CABINET  
DETAILS AND PARCEL  
MAP**

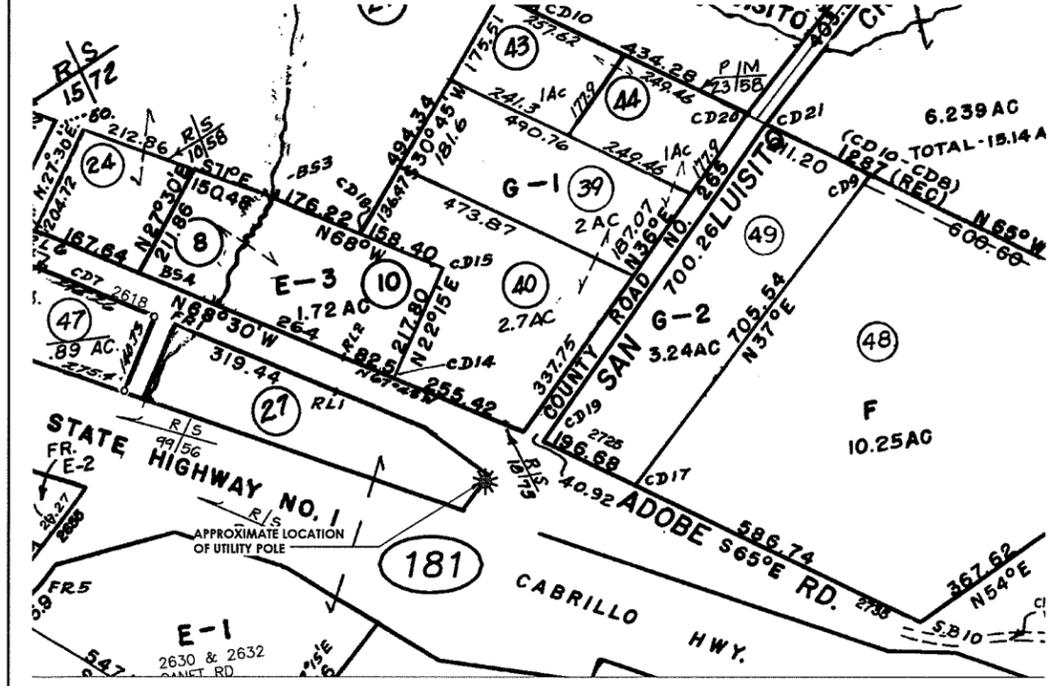
**A-6**

**3 SMALL CELL EQUIPMENT CABINET ATTACHMENT DETAIL**



**4 CABINET ANCHORAGE**

**1 RAISED CONCRET PAD**

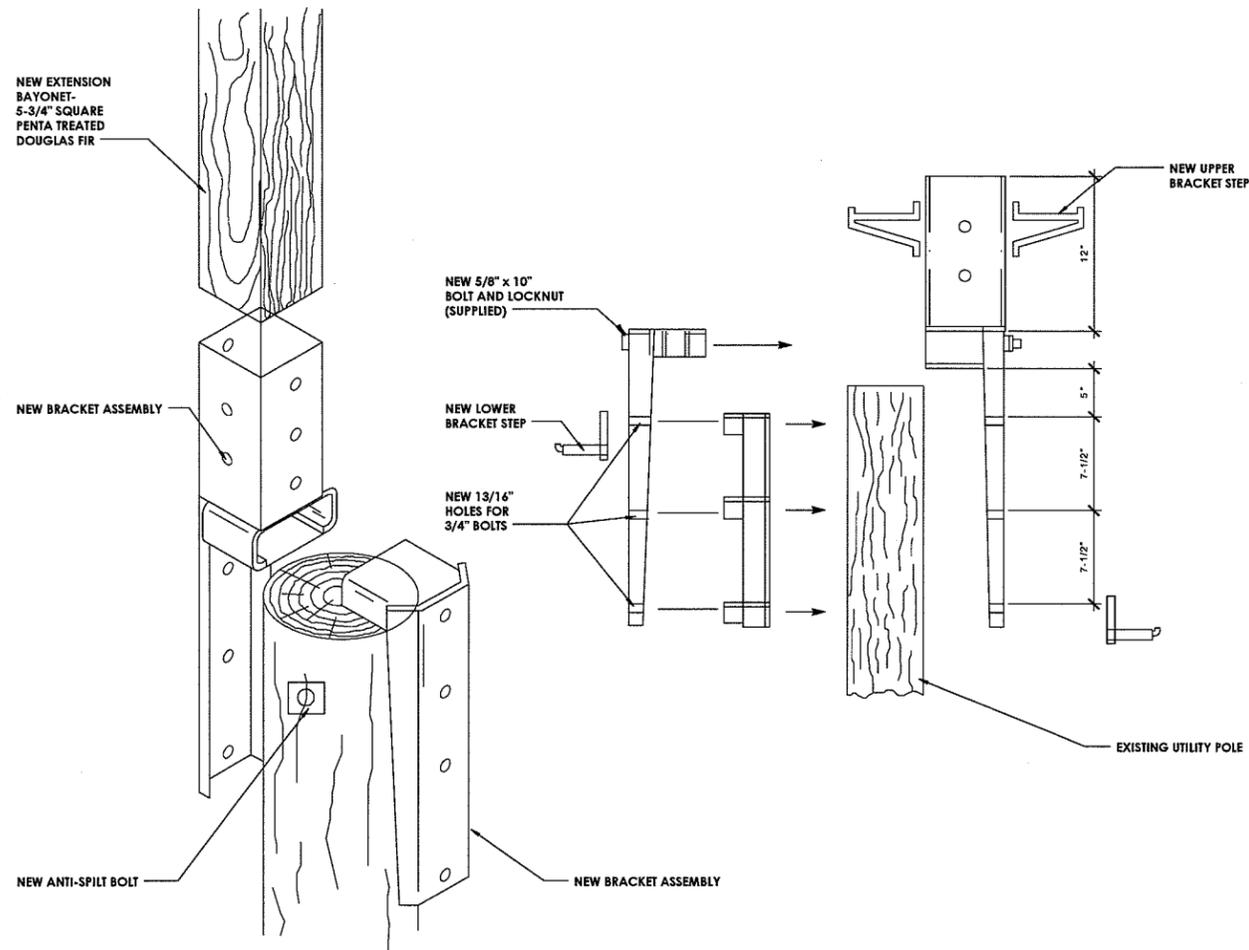


**2 PARCEL MAP**

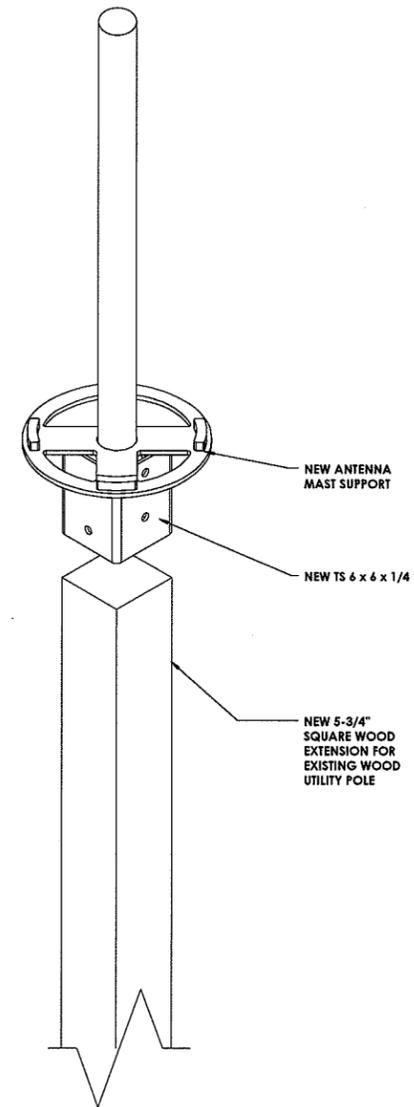
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**NOTES:**

1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 4 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT POLES WITH DIAMETERS OF 8" TO 11". THEREFORE, DEPENDING UPON THE ACTUAL POLE-TOP DIAMETER, TO FIT POLES OF CLASS 3 AND SMALLER, A BRACKET ADAPTER MAY BE REQUIRED.
4. UNITS ARE SUPPLIED WITH THE WOOD BAYONET ASSEMBLED.
5. A POLE STEP KIT IS REQUIRED.
6. ATTACH THE BRACKET ASSEMBLY ACROSS THE LINE DIRECTION WITH THE CROSSARM.
7. ALL DETAILS SHOWN ON THIS PAGE ARE FOR REFERENCE ONLY. THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEMS ARE PER UTILITY COMPANY STANDARDS AND ARE SUBJECT TO CHANGE AT THEIR DISCRETION. BOTH THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEM SHALL BE INSTALLED BY THE UTILITY COMPANY.



**2 POLE-TOP EXTENSION ASSEMBLY**



**1 ANTENNA MOUNTING ASSEMBLY**



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Drawn By: **JS**  
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**ANTENNA MOUNTING  
DETAILS**

**A-7**

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**1. GENERAL REQUIREMENTS**

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
- B. THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- C. THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- D. THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE OPERATIONS SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
- E. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ARCHITECT/ENGINEER.
- F. COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.
- G. THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER. REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- H. ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
- I. "PROVIDES" INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.
- J. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.

**2. EQUIPMENT LOCATION**

- A. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- B. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- C. LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE.
- D. COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES, WHERE CONFLICTS OCCUR. CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY. OBTAIN WRITTEN ACCEPTANCE FROM ARCHITECT/ENGINEER FOR THE PROPOSED CHANGES BEFORE PROCEEDING.

**3. SHOP DRAWINGS**

- A. SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL WITHIN 35 DAYS OF AWARD OF CONTRACT. SHOP DRAWINGS SHALL BE SUBMITTED IN A COMPLETE BOUND MANUAL INCLUDING LIGHT FIXTURES, SERVICE METERING, TRANSFER SWITCH, PANELBOARD, AND DISCONNECT SWITCHES. THE CONTRACTOR SHALL VERIFY DIMENSIONS OF EQUIPMENT TO INSURE THAT THEY FIT IN THE DESIGNATED AREA AND COMPLY WITH REQUIREMENTS OF ALL APPLICABLE CODES FOR REQUIRED WORKING CLEARANCES ABOUT ELECTRICAL EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL. DEPARTURE FROM THE ABOVE WILL RESULT IN RE-SUBMITAL AND DELAYS.

**4. SUBSTITUTIONS**

- A. NO SUBSTITUTIONS ARE ALLOWED.

**5. TESTS**

- A. BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC., ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

**6. PERMITS**

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL THE REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

**7. GROUNDING**

- A. THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
- B. CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- C. FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- D. REFER TO GROUND BUS DETAILS, PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- E. ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- F. ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED, THIN (GREEN) INSULATION.
- G. ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- H. PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- I. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

**8. UTILITY SERVICE**

- A. TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
- B. CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

**9. PRODUCTS**

- A. ALL MATERIALS SHALL BE NEW, CONFORMING WITH THE NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- B. CONDUIT:
  - 1. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
  - 2. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
  - 3. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
  - 4. CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
  - 5. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
  - 6. ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.
  - 7. CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4 X 4 RED CHAINLINK SLEEPERS, 4'-0" ON CENTER, SET IN NON-HARDENING MASTIC.

**C. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THIN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.**

- D. PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.
- E. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ARCHITECT/ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.
- F. TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.
- G. PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 4'-3" ABOVE FINISHED FLOOR. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY.
- H. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- I. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

- A. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- I. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

- A. PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC., SUPPORT LUMINAIRES FROM UNDERSIDE OF STRUCTURAL CEILING. EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.
- B. CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS, CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ARCHITECT/ENGINEER BEFORE CORING.
- C. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- D. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- E. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE C.B.C.

**10. INSTALLATION**

- A. PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC., SUPPORT LUMINAIRES FROM UNDERSIDE OF STRUCTURAL CEILING. EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.
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- E. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE C.B.C.

**11. PROJECT CLOSEOUT**

- A. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- B. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.
- C. ALL BROCHURES, OPERATING MANUALS, CATALOG, SHOP AT JOB COMPLETION.

- 1. SERVICE POWER SHALL BE 200A, 1D, SW, 120/208 OR 120/240V.
- 2. UTILITY RECEPTACLE IS A GFCI DUPLEX OUTLET INSTALLED IN THE DEADFRONT OF PFC.
- 3. NOT USED
- 4. PROVIDE A MIN. 36" WORK CLEARANCE IN FRONT OF PANELS/SERVICE EQUIP.
- 5. ALL BREAKERS IN THE ELEC. PANEL ARE RATED 10,000 RMS SYMMETRICAL AMPS, 240V MAX. 75° C.
- 6. ALL WIRING SHALL BE COPPER 75° C U.N.O.
- 7. CONDUIT REQUIREMENTS (TYP., U.N.O.): UNDERGROUND: PVC (SCHED 40 OR 80) INDOOR: EMT (RGS IN TRAFFIC AREAS) OUTDOOR (ABOVE GRADE): RGS.
- 8. APPLETON EMERGENCY GENERATOR PLUG AT 36" A.F.F. CONTRACTOR TO VERIFY EXACT LOCATION WITH LANDLORD AND UTILITY COORDINATOR.
- 9. PLACE "TRUE TAPE" AND PULL ROPE IN THE CONDUITS AS REQUIRED.

A	AMPERE	ELEC	ELECTRICAL	MFR	MANUFACTURER	SAF	SAFETY
ACCA	ANTENNA CABLE COVER ASSEMBLY	EMT	ELECTRICAL METALLIC TUBING	MIN	MINIMUM	SDBC	SOFT DRAWN BARE COPPER
		ENCL	ENCLOSURE	MLO	MAIN LUGS ONLY	SEC	SECONDARY
AIC	AMPERE INTERRUPTING CAPACITY	EXIST	EXISTING	MTD	MOUNTED	S.N.	SOLID NEUTRAL
APPROX	APPROXIMATELY	FAC	FACTOR	MTG	MOUNTING	SURF	SURFACE
AT	AMPERE TRIP	FJA	FIRE ALARM	MTS	MANUAL TRANSFER SWITCH	SW	SWITCH
AWG	AMERICAN WIRE GAGE	FLUOR	FLUORESCENT	N	NEUTRAL	TEL	TELEPHONE
BATT	BATTERY	FT	FOOT/FEET	INI	NEW	TYP	TYPICAL
BD	BOARD	FU	FUSE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	U/G	UNDERGROUND
BR	BRANCH	G	GROUND	OH	OVERHEAD	U.L.	UNDERWRITER'S LABORATORY INC.
BRKR	BREAKER	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	P	POLE	U.N.O.	UNLESS NOTED OTHERWISE
BTIW	BARE TINNED COPPER WIRE	PCS	PERSONAL COMMUNICATION SYSTEM			V	VOLT
BTS	BASE TRANSMISSION SYSTEM	GND	GROUNDING			VAC	VOLT ALTERNATING CURRENT
C	CONDUIT	GPS	GLOBAL POSITIONING SYSTEM	PH	PHASE	W	WAIT OR WIRE
CAB	CABINET	GR	GROWTH	PNLBD	PANELBOARD	W/	WITH
CB	CIRCUIT BREAKER	HDBC	HARD DRAWN COPPER WIRE	PFC	POWER PROTECTION CABINET	W/O	WITHOUT
CKT	CIRCUIT	HPS	HIGH PRESSURE SODIUM	PRC	PRIMARY RADIO CABINET	XFER	TRANSFER
CONT	CONTINUOUS	LG	LENGTH	PRI	PRIMARY	XFMR	TRANSFORMER
DEM	DEMAND	LPS	LOW PRESSURE SODIUM	PWR	POWER	XLPE	CROSS-LINK POLYETHYLENE
(E)	EXISTING	MAX	MAXIMUM	RCPT	RECEPTACLE		
EGR	EMERGENCY GEN. RECEPTACLE	MECH	MECHANICAL	RGS	RIGID GALVANIZED STEEL		

	OVERHEAD TELEPHONE/OVERHEAD POWER		LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT #MHC-0175H-536
	OVERHEAD TELEPHONE LINE		5/8" X 10'-0" .CU. GND ROD 30" MIN. BELOW GRADE.
	OVERHEAD POWER LINE		5/8" X 10'-0" .CU. GND ROD IN TEST WELL 30" MIN. BELOW GRADE.
E	POWER RUN		CHEMICAL GROUND ROD (XIT GROUND ROD)
	TELCO RUN		CADWELD CONNECTION
T/E	POWER/TELCO RUN		MECHANICAL CONNECTION
	GROUNDING CONDUCTOR		HALO GROUND CONNECTION
	GROUNDING CONDUCTOR		CIRCUIT BREAKER
	CONDUIT UNDERGROUND		UTILITY METER BASE
	FUSE, SIZE AND TYPE AS INDICATED.		TRANSFORMER
	SAFETY SWITCH, 2P-240V-40A W/40A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NR8		STEPDOWN TRANSFORMER
	MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE		RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBELL CATALOG #5362
	LIGHTING FIXTURE, FLUORESCENT, 10.9" X 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #W5W232T		TOGGLE SWITCH, 1P-125V-15A, HUBBELL CATALOG #HBL 1201CN
	LIGHTING FIXTURE, FLUORESCENT, 10.9" X 8'-0", 2/95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #1W5M232T		TOGGLE SWITCH, 1P-120V-15A, "WP"
	LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121		IONIZATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC, GENIEK PART NO. 7100F
	EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PR8		POLE
	COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC		(N) POLE MOUNTED XFMR
	EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HE6-50-2-R91		(E) POLE MOUNTED XFMR
	LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1		(N) PAD MOUNTED XFMR
	MOTOR OUTLET		(E) PAD MOUNTED XFMR

**verizon**wireless

Verizon Wireless  
2785 Mitchell Drive  
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Walnut Creek, CA 94598

Client:

V-ONE DESIGN  
5100 CLAYTON ROAD, B-1 SUITE 354  
CONCORD CA 94521

Design Firm:

100% CONSTRUCTION DRAWINGS

Drawing Phase:

**SAN LUCITO CREEK SC1**  
(NEAR) 2710 SAN LUISITO CREEK ROAD  
SAN LUIS OBISPO, CA 93405  
291696

Site:

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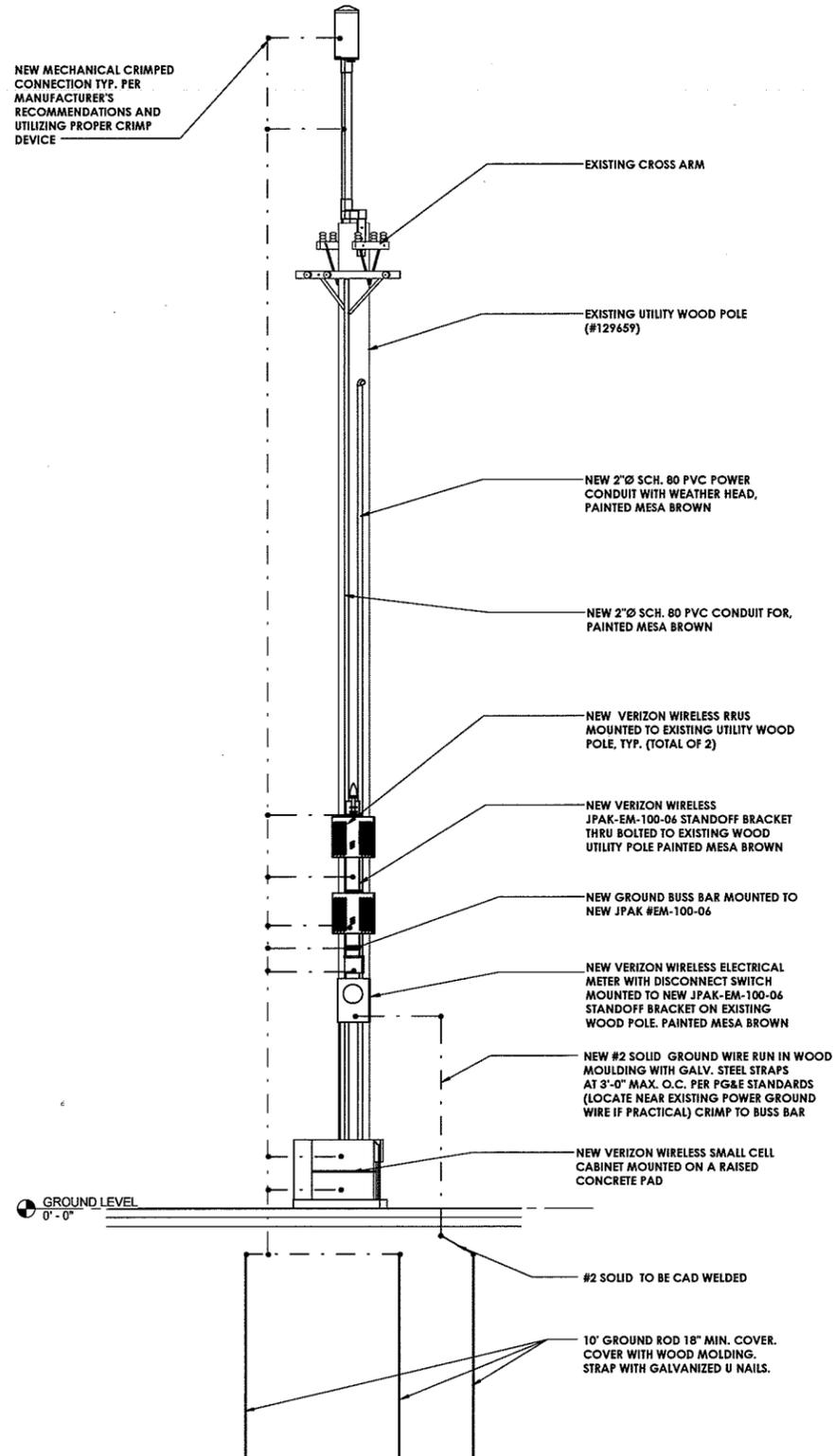
**NSA Wireless, Inc.**

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San Ramon, CA 94583  
Tel: 925.244.1890  
info@nsawireless.com

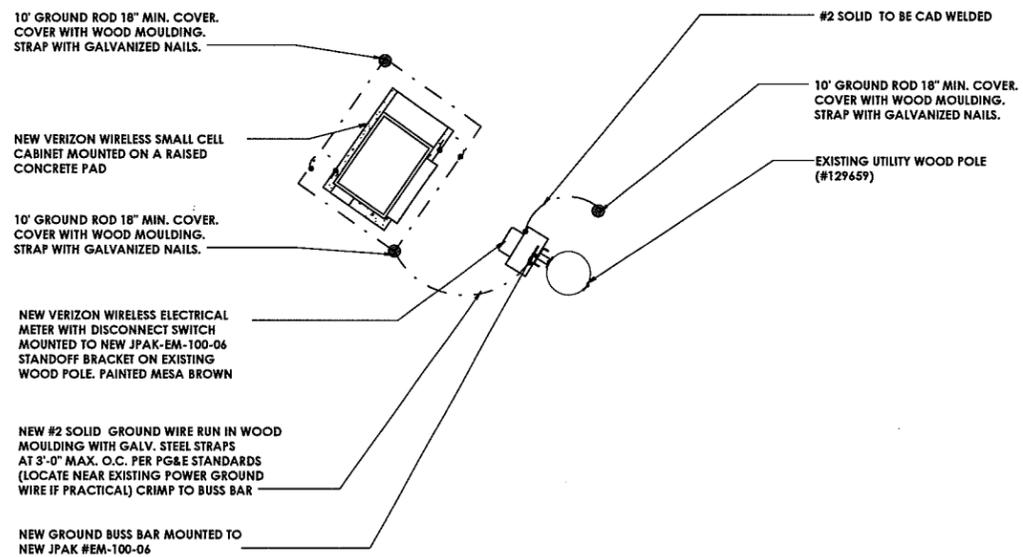
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1	100%CD DRAWINGS	09/17/14

Date: 09/17/14  
Drawn By: JS  
Checked By: RS

**ELECTRICAL SPECS,  
NOTES, LEGEND &  
ABBREVIATIONS**



2 POLE GROUNDING DIAGRAM



1 GROUNDING PLAN



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**ELECTRICAL GROUND DIAGRAMS**

**E-2**

9/17/2014 11:06:10 AM

**POWER AND TELCO NOTES:**

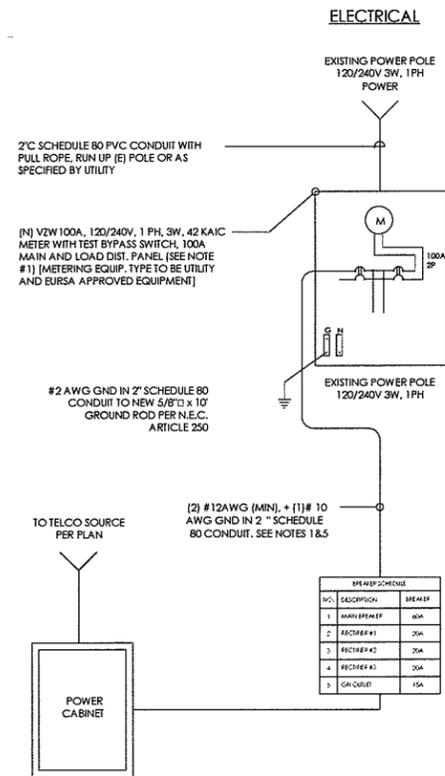
- POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE 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.

**NOTES:**

- SUBCONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BIS UNITS AND THE BIS/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.
- FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
- MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

**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.



**SINGLE LINE DIAGRAM**

**LOAD CALCULATIONS - VERIZON WIRELESS**

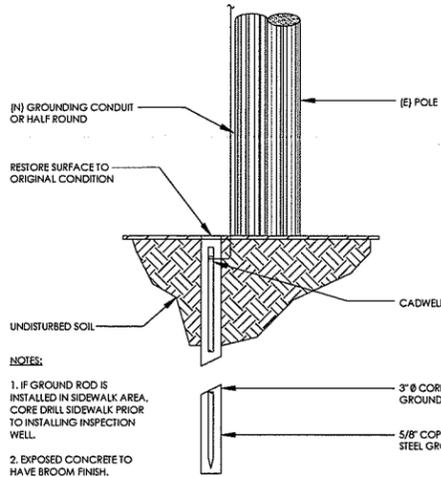
EXISTING LOAD: 0 AMPS  
 NEW LOAD: 10.0 AMPS MAX.  
 NEW TOTAL LOAD: 10.0 AMPS MAX.

POWER AND TELCO DESIGN IS BASED ON INITIAL SITE VISIT.

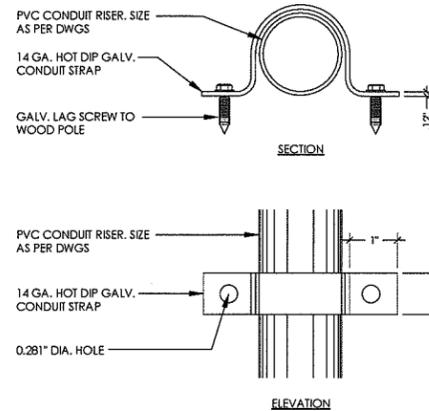
CONTRACTOR SHALL OBTAIN CURRENT UTILITY COORDINATOR PLANS PRIOR TO START OF CONSTRUCTION.

AVAILABLE FAULT CURRENT PER UTILITY.

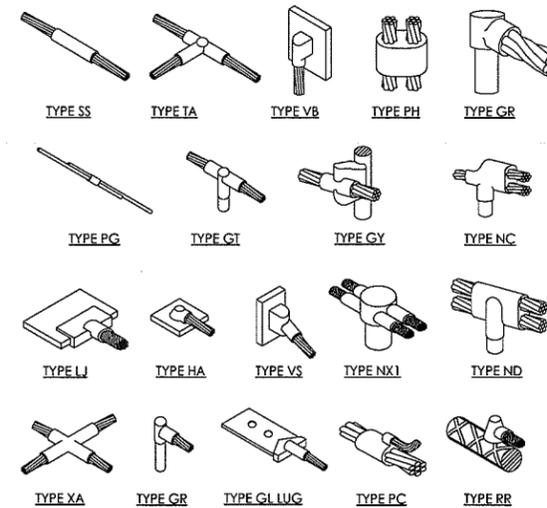
NOTE: CONTRACTOR TO CHECK WITH UTILITY TO ENSURE ELEC. METER IS BRACED FOR ACTUAL FAULT CURRENT.



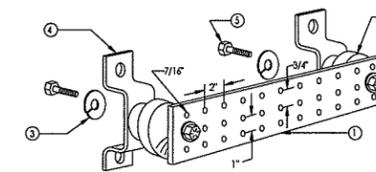
**4 POLE GROUNDING ROD**



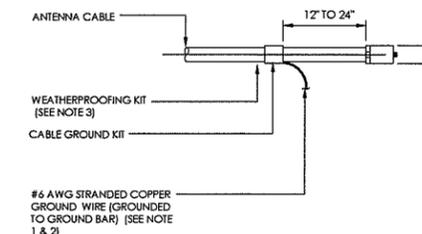
**5 POLE CONDUIT STRAP**



**1 EXOTHERMIC WELD CONNECTION**



**2 BUSS BAR2**



**3 CONN. OF CABLE GND. KIT TO ANT.**

- NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
  - WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)



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 Checked By **RS**

**ELECT. SINGLE-LINE DIAGRAM & DETAILS**

**E-3**

view from San Luisito Road looking west at site

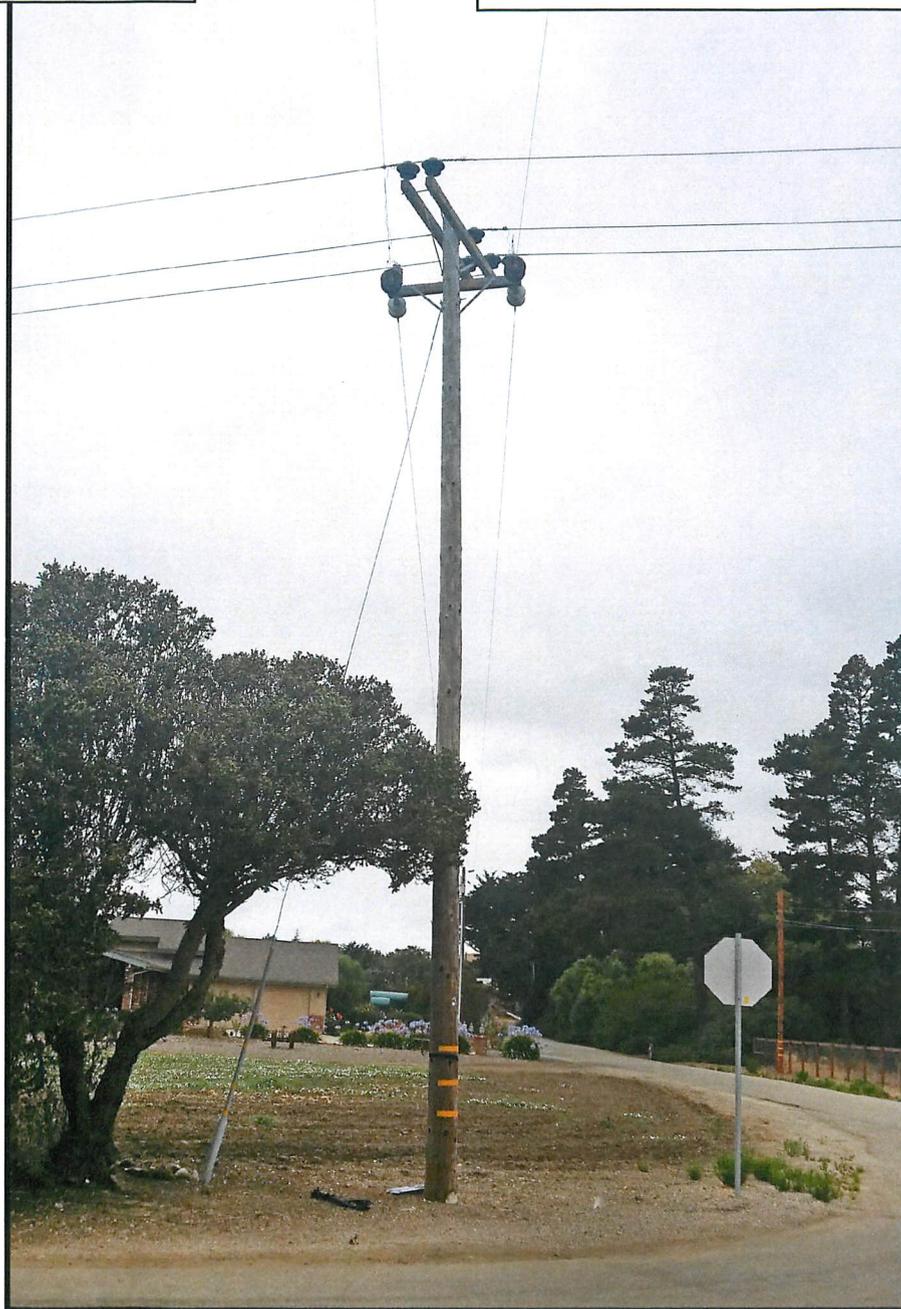


San Lucito SC1 291696  
2710 San Luisito Creek Road, San Luis Obispo, CA

Proposed Verizon  
Antenna

Proposed

Existing



view from Adobe Road looking south at site

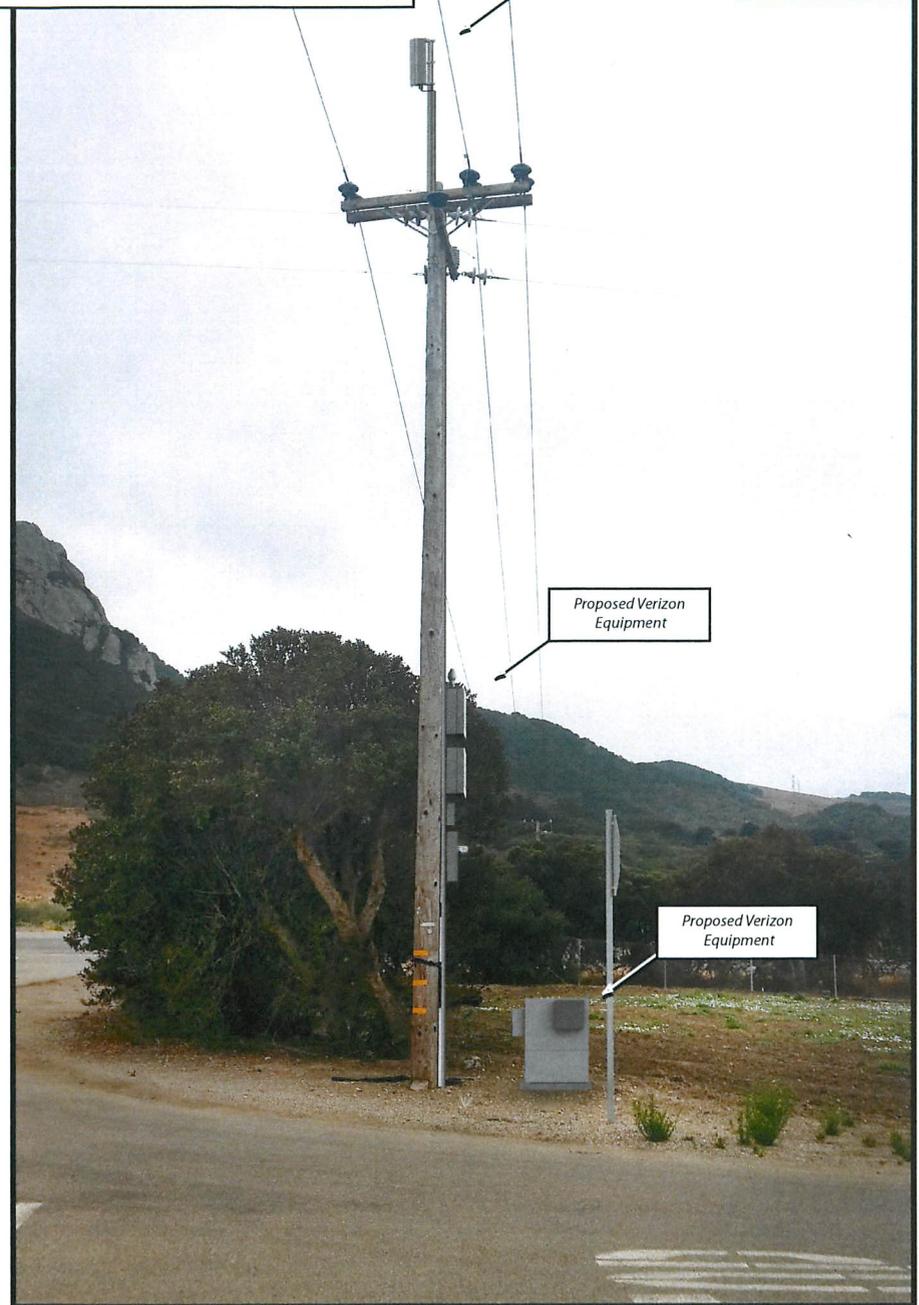


San Lucito SC1 291696  
2710 San Luisito Creek Road, San Luis Obispo, CA

Proposed Verizon  
Antenna

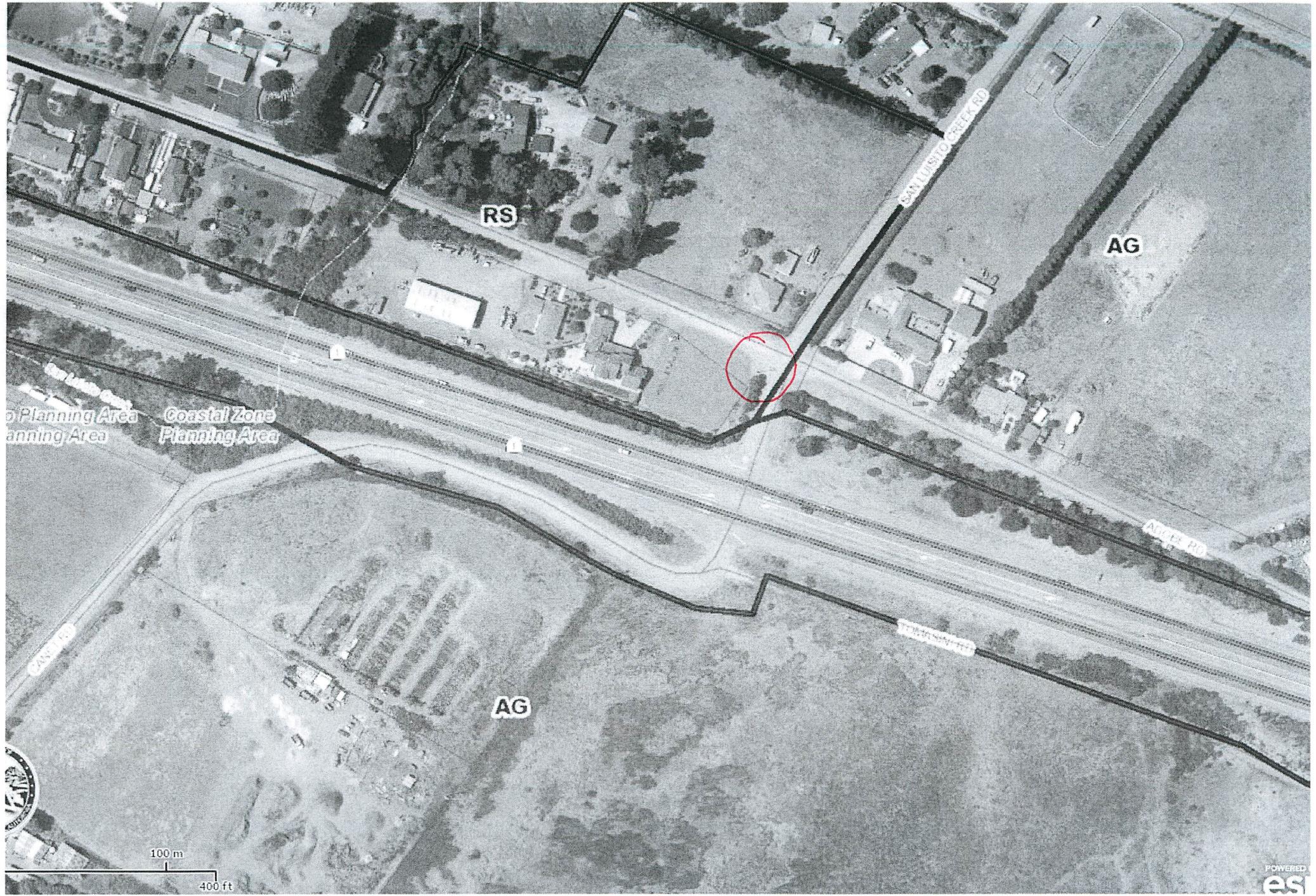
Proposed

Existing



Proposed Verizon  
Equipment

Proposed Verizon  
Equipment



Coastal Zone Planning Area

RS

AG

AG

SAN LUISITO CREEK RD

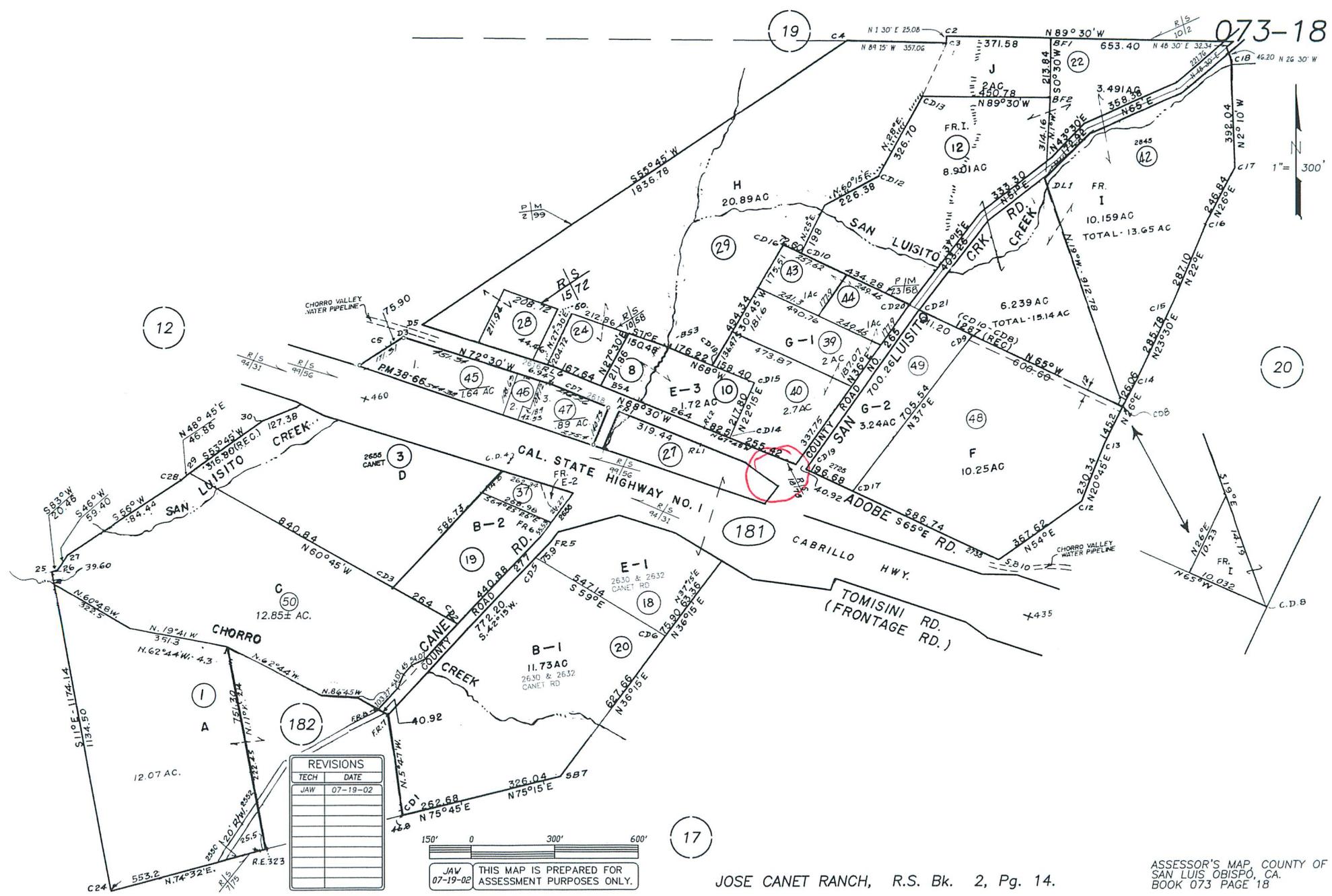
ADAMS RD

TOWNSEND RD

CASS ST

100 m  
400 ft

POWERED  
es



12

19

20

181

182

17

REVISIONS	
TECH	DATE
JAW	07-19-02

150' 0 300' 600'

JAW 07-19-02 THIS MAP IS PREPARED FOR ASSESSMENT PURPOSES ONLY.