A G E N D A
CITY OF SEASIDE
PLANNING COMMISSION

REGULAR MEETING
Council Chamber
440 Harcourt Avenue
Wednesday, July 24, 2019
7:00 PM

1. CALL TO ORDER

2. ROLL CALL - ESTABLISHMENT OF QUORUM

3. PLANNING COMMISSION

John Owens	Chair
Michael Spalletta	Vice Chair
Keith Dodson	Commissioner
Denise Ross	Commissioner
Arlington La Mica	Commissioner
Dave Evans	Commissioner
Vacant	Commissioner

4. REVIEW OF AGENDA

If there are any items that arose after the 72-hour posting deadline, this is the point in the meeting where a vote may be taken to add the item to the agenda. (A 2/3-majority vote is required).

5. PUBLIC COMMENT

Members of the public wishing to address the City Council on matters within the jurisdiction of the City of Seaside, but not on this agenda, may do so during the Public Comment period for up to three minutes. Public Comments on specific agenda items are heard under that item. For the public record, please state your name.

6. APPROVAL OF MINUTES

7. BUSINESS ITEMS

A. USE PERMIT NO. UP-16-07: SAC WIRELESS ON BEHALF OF VERIZON WIRELESS IS REQUESTING THE APPROVAL OF A MASTER USE PERMIT FOR THE INSTALLATION OF FOUR SMALL CELL WIRELESS FACILITIES ON UTILITY POLES NEAR THE FOLLOWING LOCATIONS:

1101 BUENA STREET
1108 SAN LUCAS STREET
1431 WARING STREET
1268 YOSEMITE STREET

RECOMMENDATION:

In accordance with Section 17.54.040.C of the Seaside Municipal Code, SAC Wireless on behalf of Verizon Wireless is requesting the approval of a Master Use Permit for the installation of four small cell wireless facilities on utility poles near the following locations:

1101 Buena Street
1108 San Lucas Street
1431 Waring Street
1268 Yosemite Street

It is recommended that the Planning Commission approve the Master Use Permit

8. REPORTS FROM COMMISSIONERS

9. REPORTS FROM STAFF

10. ADJOURNMENT

Next Regularly Scheduled Meeting:
August 14, 2019
Seaside City Hall
7 PM

The City of Seaside is committed to providing accessible facilities and accommodating people with disabilities in all of its services programs and activities. If special considerations are needed by any person to fully participate in this meeting, contact the City Clerk at 899-6707 no fewer than two business days prior to the meeting to allow reasonable arrangements. The City Council chamber is equipped with a portable microphone and assisted listening devices are available at all meetings. City Council Meetings that are held in the City Council Chambers are broadcast live to all Seaside residents on Comcast Channel 25 and U-verse Channel 99. Live streamed meeting videos as well as videos of past meetings are available on the City's website at: http://www.ci.seaside.ca.us/129/City-Council-Committee-Agendas

Agenda-related writings or documents provided during public meetings are available for public inspection during the meeting or from the office of the City Clerk. This agenda is posted in compliance with California Government Code Section 54954.2(a) or Section 54956.

CITY OF SEASIDE
STAFF REPORT

Item No.: 7.A.

TO: Planning Commission

BY: Gloria Stearns, Community Development Manager
Rick Medina, Senior Planner

DATE: July 24, 2019

SUBJECT: **USE PERMIT NO. UP-16-07: SAC WIRELESS ON BEHALF OF VERIZON WIRELESS IS REQUESTING THE APPROVAL OF A MASTER USE PERMIT FOR THE INSTALLATION OF FOUR SMALL CELL WIRELESS FACILITIES ON UTILITY POLES NEAR THE FOLLOWING LOCATIONS:**

1101 BUENA STREET
1108 SAN LUCAS STREET
1431 WARING STREET
1268 YOSEMITE STREET

PURPOSE & RECOMMENDATION

In accordance with Section 17.54.040.C of the Seaside Municipal Code, SAC Wireless on behalf of Verizon Wireless is requesting the approval of a Master Use Permit for the installation of four small cell wireless facilities on utility poles near the following locations:

1101 Buena Street
1108 San Lucas Street
1431 Waring Street
1268 Yosemite Street

It is recommended that the Planning Commission approve the Master Use Permit

BACKGROUND

The proposed Master Use Permit consists of a Small Cell network for Verizon Wireless. The network will consist of the placement of four antennas on top of four utility poles located within the public right-of-way in the southeast quadrant of Seaside. See Attachments 1-4 for Site Simulations including Location Maps.

The Master Use Permit is being submitted to provide an alternative design/location that could provide a replacement of a proposal to construct a single 39-foot 10-inch cellular tower disguised as a church steeple on the grounds of Faith Lutheran Church located at 1460 Hilby Avenue (Use Permit # UP-15-04). The alternative design/location was

requested by the City Council on June 16, 2016 in its review of an appeal filed by Verizon Wireless from the denial of UP-15-04 by the Planning Commission on September 23, 2015. The link to the June 16, 2016 City Council Staff Report (Item 10 B) is provided below:

https://seasideca.civicclerk.com/Web/UserControls/DocPreview.aspx?p=1&aoid=694

The minutes from the June 16, 2016 City Council meeting are linked below:

https://seasideca.civicclerk.com/Web/UserControls/DocPreview.aspx?m=1&aoid=694

If the Master Use Permit proposal is approved by the Planning Commission, Use Permit Application UP-15-04 would be withdrawn.

If the Master Use Permit is denied, Verizon Wireless will have the option to appeal this denial to the City Council whereby the City Council would then consider the Master Use Permit request and UP-15-04.

A tolling agreement has been entered into with Verizon Wireless to stop mandatory processing deadlines on the appeal of UP-15-04 until the alternative design/location as requested by the City Council has been completed. If there is no appeal of the Master Use Permit, the City Council would only be considering the continued appeal of UP-15-04 which the City has entered into a tolling agreement with Verizon Wireless.

Legal and Regulatory Background

Various federal and State laws affect local land-use discretion over wireless facilities. The following discussion provides a summarized explanation for the key regulations applicable to Verizon's application.

Telecommunication Act

Federal law establishes specified limitations and preemptions in relation to the siting of wireless communications facilities as part of the Federal Telecommunications Act of 1996. Under the Telecommunications Act, State and local governments retain their local land use authority except that local regulations cannot (1) prohibit or effectively prohibit personal wireless services; (2) unreasonably discriminate among functionally equivalent services; (3) regulate based on environmental/health impacts from radiofrequency (RF) emissions.

The FCC Ruling, effective on January 14, 2019, sets forth new limitations on state and local government regulation of small cell wireless facilities that are placed on existing or new utility poles and street light standards located in the public right-of-way. Specifically, the FCC Ruling: a) limits the level of local permitting and discretion; b) establishes new shorter "shot clock" rules (e.g., time limits and deadlines) for processing and action on local permits; and c) limits the fees that can be charged for permitting small cell deployments.

To expedite deployment of small cells and new wireless technology, the FCC adopted its Small Cells Order to provide guidance on appropriate approval criteria for small cells. These facilities are often affixed to light poles and other smaller, lower utility poles located within the public right-of-way. Accelerating Wireless Broadband Deployment by Removing Barriers to Infrastructure Investment, Declaratory Ruling and Third Report and Order, FCC 18-133 (September 27, 2018). The FCC defined "small wireless facilities" with specific height and dimension thresholds. 47 C.F.R. § 1.6002(l). Among other topics, the FCC addressed aesthetic criteria for approval of qualifying small cells, concluding that they must be: "(1) reasonable, (2) no more burdensome than those applied to other types of infrastructure deployments, and (3) objective and published in advance." "Reasonable" standards are "technically feasible" and meant to avoid "out-of-character deployments." "Objective" standards must "incorporate clearly-defined and ascertainable standards, applied in a principled manner."

Requirements to demonstrate necessity of a small cell through a significant gap and alternatives analysis are preempted by the FCC's recent Small Cells Order. The FCC ruled that local regulations prohibit or have the effect of prohibiting service under the Telecommunications Act if they materially inhibit "densifying a wireless network, introducing new services, or otherwise improving service capabilities." In the Small Cells Order, the FCC states that "Significant gap" is a narrow, dated standard for prohibition of service that does not apply to small wireless facilities. For small wireless facilities, the FCC rejected judicial interpretations that the Telecommunications Act limits the federal prohibition of service standard to "protecting only against coverage gaps or the like" as determined

through a "'coverage gap'-based approach."

State Law

California law grants telephone corporations a limited right to use the public rights-of-way to the extent necessary to provide services to the public in a manner that does not "incommode" the public use of the right-of-way. Municipalities also retain reasonable time, place, and manner control over temporary construction activities. Federal law and California courts hold that the "incommode" standard preserves local authority to regulate against both physical obstructions and unreasonable aesthetic impacts.

PROJECT DESCRIPTION

This project proposal seeks to locate a small cell wireless telecommunication network within the public rights-of-way near the following locations:

1101 Buena Street

1108 San Lucas Street

1431 Waring Street

1268 Yosemite Street

1101 Buena Street

The proposed structure is a 30'-8" tall wooden utility pole. SAC Wireless proposes to mount a single omnidirectional cylindrical antenna within a fiberglass radome (o.e. shroud) to the side of the pole using an arm bracket. The antenna centerline would be 29'6" above grade. Two RRU's, an equipment cabinet, and fiber optic distribution panel will be located below the antenna between height of 16'-7" and 9'-0' above grade. See Attachment 5

1108 San Lucas Street

The proposed structure is a 39'-0" tall wooden utility pole that currently supports a cross arm guy wire, and power communication lines. The neutral power line is located 32'-0" above grade and 7'-0" below the top of the pole. SAC Wireless proposes to mount a single omnidirectional cylindrical antenna within a fiberglass radome (o.e. shroud) to the top of the pole using a top mounting bracket. The antenna centerline would be 42'4" above grade. Two RRU's, an equipment cabinet, and fiber optic distribution panel will be located below the antenna between height of 14'-0" and 7'-0' above grade. See Attachment 6

1431 Waring Street

The proposed structure is a 39'-0" tall wooden utility pole that currently supports a cross arm guy wire, and power communication lines. The neutral power line is located 32'-0" above grade and 7'-0" below the top of the pole. SAC Wireless proposes to mount a single omnidirectional cylindrical antenna within a fiberglass radome (o.e. shroud) to the top of the pole using a top mounting bracket. The antenna centerline would be 42'5" above grade. Two RRU's, an equipment cabinet, and fiber optic distribution panel will be located below the antenna between height of 16'-7" and 9'-0' above grade. See Attachment 7

1268 Yosemite Street

The proposed structure is a 20'-0" tall wooden utility pole. SAC Wireless proposes to mount a single omnidirectional cylindrical antenna within a fiberglass radome (o.e. shroud) to the top of the pole using a top mounting bracket. The antenna centerline would be 23'5" above grade. Two RRU's, an equipment cabinet, and fiber optic distribution panel will be located below the antenna between height of 16'-7" and 9'-0' above grade. See Attachment 8

ENVIRONMENTAL REVIEW

The project is exempt from the California Environmental Quality Act (CEQA) Guidelines (Article 19, Section 15303, for "construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures") because the project involves construction of a small cell

telecommunication facility on four existing utility poles.

STAFF ANALYSIS AND FINDINGS

Both federal and state laws govern how the City may regulate wireless communication facilities. Under the federal Telecommunications Act, both states and local governments are preempted from prohibiting wireless communication facilities. (47 U.S.C. § 253.) However, the Telecommunications Act does preserve cities authority over zoning issues, subject to certain constraints. (47 U.S.C. §§ 332(c)(7).) For example, any decision to deny a request to place, construct or modify a wireless communication facility must be in writing and supported by substantial evidence in the record. In addition, the decision may not be based on or regulate radio frequency emissions.

If based on substantial evidence in the record, the Planning Commission is able to make the findings as described in further detail below, the application should be approved. If the Planning Commission is unable to make a finding, then it must articulate reasons why it cannot make the finding based on the evidence in the record. An encroachment agreement from the Public Works Department will be required as part of the Conditions of Approval.

In accordance with SMC §§ 17.62.070.F, staff prepared and recommends the proposed findings for the project as follows:

1. The proposed use is allowed within the applicable zone and complies with all other applicable provisions of this Zoning Ordinance and the Municipal Code.

Staff Comments: SMC § 17.54.030.C, A service provider who intends to establish multiple wireless telecommunications facilities within the City is encouraged to apply for the approval of all facilities under a Master Use Permit. Under this approach, all proposed facilities may be acted upon by the City as a single application, ensuring feasibility of long-range company projections.

"Small wireless facilities", also called "small cell", as defined by the FCC are facilities that include an antenna of no more than three cubic feet and equipment totaling no more than 28 cubic feet, placed on a structure that is either: 1) no more than 50 feet in height; 2) no more than 10 percent taller than adjacent structures; or, 3) no more than 10 percent taller than the structure's preexisting height after the new antenna is placed. The proposed locations will be in compliance with this federal standard.

SMC § 17.54.050.A authorizes wireless telecommunication facilities in residential districts so long as the applicant demonstrates that no other sites in public/institutional districts will provide adequate coverage. The proposed project is located within an RS-8 and RS-12 zoning district and the applicant has provided an analysis of Alternative Sites provided as Attachment 9 that evaluates 42 candidate sites where other utility poles are located within the public rights-of-way at the Southeast portion of the city. In accordance with the design requirements in SMC § 17.54.060, the applicant has proposed to conceal the antennas with a radome shroud and the side mounted equipment with an equipment cage. The proposed project will be compliant with the height limitations so long as no part of the facility extends more than 50 feet above ground level.

2. The proposed use is consistent with the General Plan and any applicable specific plan.

Seaside General Plan Conformance: The Seaside General Plan designates the land use for the project site as RS (Low Density Residential). The land use designation is primarily intended for the development of detached single-family dwellings at densities up to eight dwelling units per square acre. Facilities for ancillary public services (e.g., water, sewer, telephone and electricity) are permitted in all zones. A telecommunication facility has been classified as a use similar to that of an ancillary public service listed above.

Land Use Element: Goal LU-4 is to ensure that new development complements existing land uses and enhances the character of the community and neighborhoods. Policy LU-4.1 requires all new development to be compatible with surrounding uses, the site and available infrastructure

Staff Comments: The proposed wireless telecommunications facility will provide telecommunications services (e.g., voice, Internet and other data-based communication services) ancillary to the existing and planned future residential uses in the vicinity. The proposed utility pole will not adversely affect the aesthetic character of the site or block views from adjoining residential properties in that the pole will maintain the height of the existing pole and the equipment will be installed on the side of the pole within an equipment cage not exceeding 28 cubic feet. Any work or security lighting must be installed in a manner that minimizes illumination effects with the use of down lit lighting.

3. The design, location, size, and operating characteristics of the proposed activity are compatible with the existing and planned future land uses in the vicinity.

Staff Comments: The proposed small cell telecommunication facilities would be the most-preferred under the circumstances because the alternative design for a telecommunication tower would be technically infeasible. Given

(1) the applicant's intended service area is in a residential area developed with older, single family dwellings in the southeast area of the community, (2) feasible collocation opportunities on an existing nearby telecommunication tower do not exist and, (3) with stand-alone telecommunication towers or building-mounted telecommunication designs not being desired or appropriate on adjacent residences, the proposed facility in the public right-of-way facility is the most preferred. The project will be designed to blend with the utility pole and existing equipment and communication wires. All antennas will be concealed from public view behind a radome shroud. The telecommunication equipment will be compatible with the existing and planned future residential uses in the vicinity

4. The site is physically suitable for the type, density and intensity of use being proposed, including access, utilities, and the absence of physical constraints.

Staff Comments: The proposed wireless telecommunication facility will have ingress and egress from the public right-of-way and sidewalk at each location. Existing electrical connections already serve the project site with adequate capacity to support the proposed wireless telecommunication facility. The sites at 1108 San Lucas Street, 1431 Waring Street and 1101 Buena Street are developed with an existing utility pole and are suitable to accommodate a wireless telecommunications facility without disrupting the existing sidewalk or residential properties that adjoin each site. A new pole at 1268 Yosemite Street can be installed if it is required to strengthen the network.

5. Granting the permit would not be detrimental to the public interest, health, safety, convenience, or welfare, or materially injurious to persons, property, or improvements in the vicinity and zone district in which the property is located.

Staff Comments: The applicant has provided Radio Frequency reports prepared by Hammett & Edison, Inc. that concluded the proposed emissions from the transmitters would not exceed the maximum permissible exposure levels for the general population anywhere at ground level or at the second-story elevation of any nearby residence. Based on the proposed site design, the report predicted the following emissions at ground level from each site:

1101 Buena Street

For a person anywhere at ground level, the maximum RF exposure level is calculated to be 2.9% of the applicable public exposure limit. The maximum calculated level at the top-floor elevation if any nearby building is 5.5% of the public exposure limit. See Attachment 10.

1108 San Lucas Street

For a person anywhere at ground level, the maximum RF exposure level is calculated to be 1.0% of the applicable public exposure limit. The maximum calculated level at the top-floor elevation if any nearby building is 0.63% of the public exposure limit. See Attachment 11.

1431 Waring Street

For a person anywhere at ground level, the maximum RF exposure level is calculated to be 0.54% of the applicable public exposure limit. The maximum calculated level at the top-floor elevation if any nearby building is 0.79% of the public exposure limit. See Attachment 12.

1268 Yosemite Street

For a person anywhere at ground level, the maximum RF exposure level is calculated to be 1.7% of the applicable public exposure limit. The maximum calculated level at the top-floor elevation if any nearby building is 10.0% of the public exposure limit. See Attachment 13.

Accordingly, the City finds that it may not regulate the proposed telecommunications facility on the basis of any environmental effects from the proposed radio frequency emissions, and that the proposed telecommunications facility will not result in any adverse impact on the public interest, health, safety, convenience, or welfare of the City.

6. The communication facility complies with all applicable requirements of this chapter .

Staff Comments: SMC § 17.54.050.A authorizes wireless telecommunication facilities in residential districts so long as the applicant demonstrates that no other sites in public/institutional districts will provide adequate coverage. The proposed project is located within an RS-8 and RS-12 district and the applicant has provided a written analysis that evaluates 42 alternative sites. In accordance with the design requirements in SMC § 17.54.060, the applicant has proposed to conceal the antennas with a radome shroud and associated pole mounted equipment cage, which will be constructed, painted and textured to match the utility pole. The proposed project will be compliant with the

height limitations of 50 feet allowed per Federal FCC Guidelines.

7. The communication facility will not adversely impact the character and aesthetics of any public right-of-way.

Staff Comments: Subject to staff's recommended conditions, the small cell network would not unreasonably subject the public use to inconvenience, discomfort, trouble and/or annoyance because there do not appear to be more-preferred alternatives and the equipment would be minimized on the pole to the extent feasible per Federal regulations. To the extent that the proposed project would be visible from locations within the public right-of-way, the proposed concealment elements that blend the wireless telecommunication facilities into the existing environment and utility pole configuration with overhead wires to sufficiently mitigate any indirect adverse impacts.

Recommended Conditions of Approval

In addition to the conditions contained in the recommended findings, staff also recommends that the Planning Commission consider the following conditions of approval:

(a) The use permit will automatically expire 10 years from the issuance date.

(b) Permittee shall at all times maintain compliance with all applicable federal, state and local laws, regulations, ordinance or other rules.

(c) The overall height shall not exceed 50 feet above ground level.

(d) All facilities must comply with all applicable regulations, standards and guidelines for RF exposure established by any governmental entity with the authority to regulate RF exposure standards. Permitee shall keep up-to-date on current information from the FCC in regards to maximum permissible RF exposure levels. In the event that the FCC changes its guidelines for human exposure to RF, permitee shall, within 30 days after any such change, submit to the Director a report prepared by a qualified engineer that demonstrates actual compliance with such changed guidelines. The Director may, at permitee's sole cost, retain an independent consultant to evaluate the compliance report and any potential modifications to the use permit necessary to conform to the FCC's guidelines. Failure to submit the compliance report required under this condition, or failure to maintain compliance with the FCC's guidelines for human exposure to RF at all times shall constitute grounds for use permit revocation.

Any modifications to the approved plans, colors or materials require prior written approval from Community Development before the City may issue a building permit.

(e) Permittee shall not operate the standby generator except when necessary due to a primary power failure or intermittent testing and cycling. Testing and cycling shall occur only on Wednesdays between the hours of 2:00pm and 3:00pm and no more frequently than once every 30 days. All operations shall comply with all applicable ambient noise limits at all times.

(f) Permittee shall undertake all reasonable efforts to avoid undue adverse impacts to adjacent properties and/or uses that may arise from the construction, operation, maintenance, modification and removal of the facility.

g) The site and the facility, including but not limited to all landscaping, fencing and related transmission equipment, must be maintained in a neat and clean manner and in accordance with all approved plans and conditions of approval.

(h) Permittee shall remove any graffiti on the wireless facility at permittee sole expense within 48 hours upon receiving notice.

(i) The following conditions shall be adhered to inform the general public, maintenance workers, and even trespassers/vandals that might unknowingly be exposed to the emissions from the antennas while ascending the light standard:

- Permittee shall keep all access points to the equipment enclosure locked at all times, except when active maintenance is performed on the equipment.
- Permittee shall install and at all times maintain in good condition an "RF notice" sign and "network operations center" sign adjacent to the access door. The signs required in this condition must be placed in a location where they are clearly visible to a person when he or she approaches the access door in the open and closed positions.
- Permittee shall install and at all times maintain in good condition an "RF notice" sign and "10-step RF safety guidelines" sign at the base of the light standard. The signs required in this condition must be placed in a location where they are clearly visible to a person climbing the light standard.

- Permittee shall ensure that all signage complies with FCC OET bulletin 65 or ANSI c95.2 for color, symbol and content conventions. all such signage shall provide a working local or toll-free telephone number to its network operations center that reaches a live person who can exert transmitter power-down control over this site as required by the FCC.

(j) After the permittee completes the installation and before the permittee commences full or unattended operations, the permittee shall submit a written report to the City Manager that certifies actual compliance with all applicable FCC guidelines for human exposure to RF emissions based on actual measurements taken by a qualified technician with a recently calibrated meter from around the facility, including without limitation measurements taken from the property lines at all adjoining properties and from the adjoining right-of-way. The City Manager or its designee may (but shall not be obligated to) supervise the on-site measurements. In addition, the City Manager may select and retain a qualified independent expert to review the written report. The permittee shall not commence full or unattended operations at the facility until the City Manager approved the written report in writing. The permittee shall bear all costs and expenses in connection with the preparation and review of the written report, including without limitation the cost and expenses in connection with the on-site measurements, any City supervision of the on-site measurements and any independent expert review.

(k) After the permittee completes any modification to the transmission equipment at the facility and before the permittee commences full or unattended operations, the permittee shall submit a written report to the City Manager that certifies actual compliance with all applicable FCC guidelines for human exposure to RF emissions based on actual measurements taken by a qualified technician with a recently calibrated meter from around the facility, including without limitation measurements taken from the property lines at all adjoining properties and from the adjoining right-of-way. The City Manager or its designee may (but shall not be obligated to) supervise the on-site measurements. In addition, the City Manager may select and retain a qualified independent expert to review the written report. The permittee shall not commence full or unattended operations at the facility until the City Manager approved the written report in writing. The permittee shall bear all costs and expenses in connection with the preparation and review of the written report, including without limitation the cost and expenses in connection with the on-site measurements, any City supervision of the on-site measurements and any independent expert review.

CONCLUSION

It is recommended that the Planning Commission approve the Master Use Permit.

ATTACHMENTS

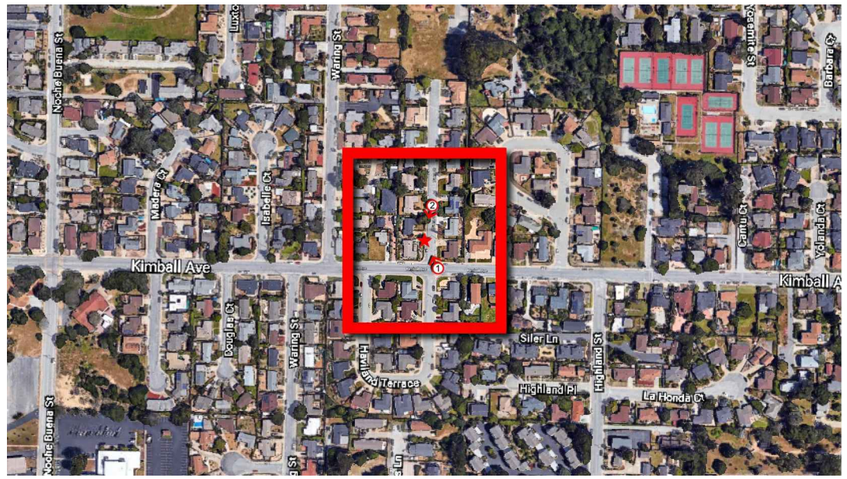
1. Site Photosimulations 1101 Buena
2. Site Photosimulations 1108 San Lucas
3. Site Photosimulations 1421 Waring
4. Site Photosimulations 1268 Yosemite
5. Planset 1101 Buena
6. Planset 1108 San Lucas
7. Planset 1431 Waring
8. Planset 1268 Yosemite
9. Alternative Candidate Analysis

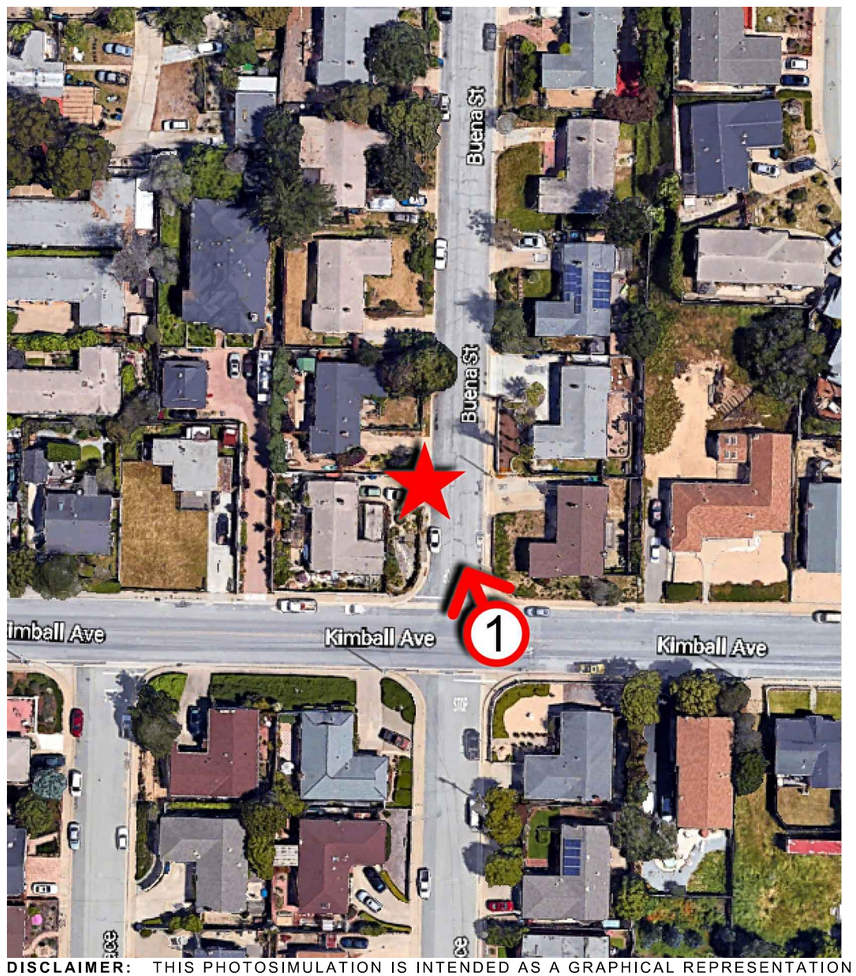
10. RF Exposure Study 1101 Buena
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12. RF Exposure Study 1431 Waring
13. RF Exposure study 1268 Yosemite

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PSL # 473026
1101 BUENA ST.
SEASIDE, CA 93955

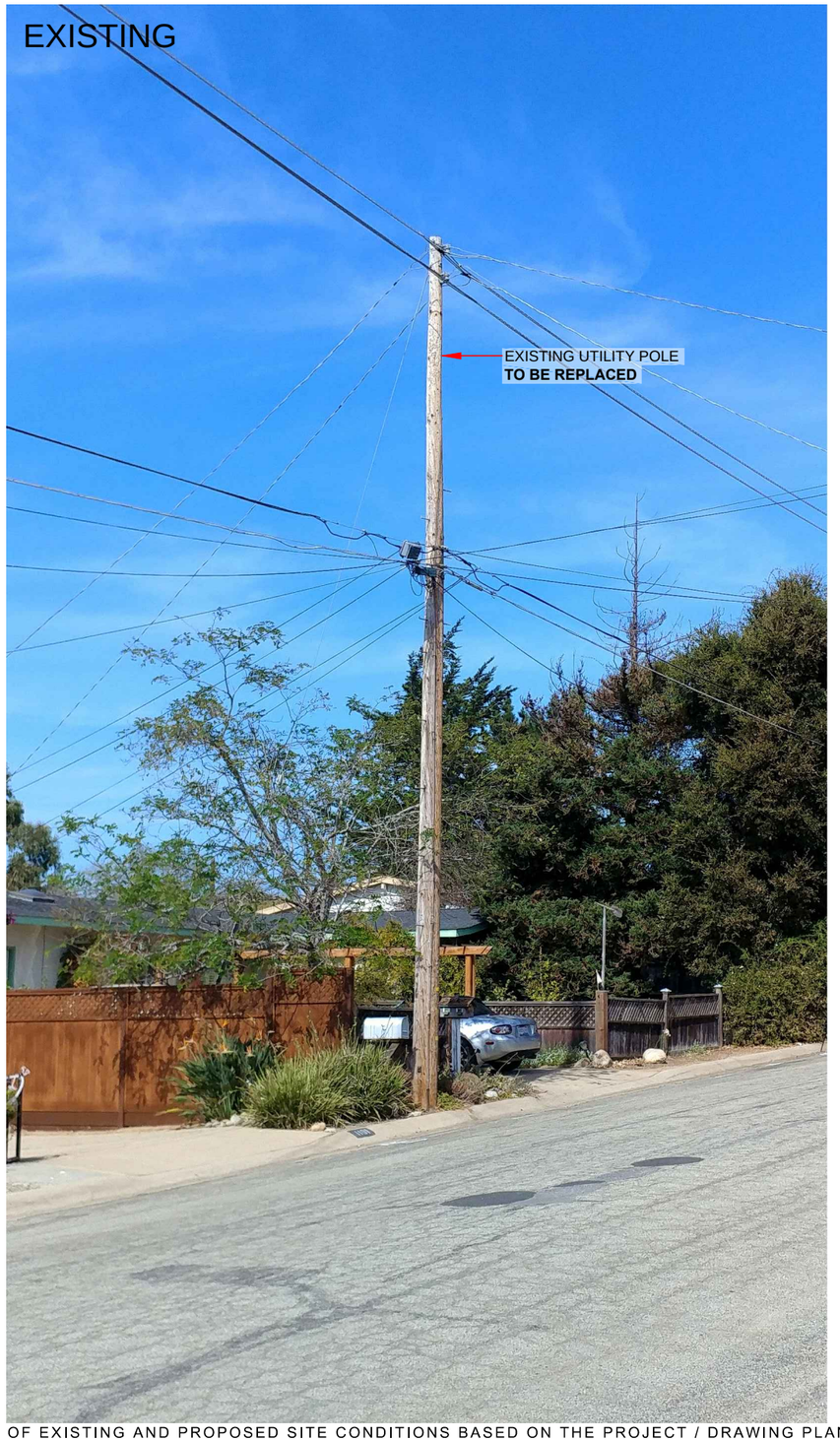
SAC WIRELESS
SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com

PHOTOSIMULATION VIEWPOINT 1

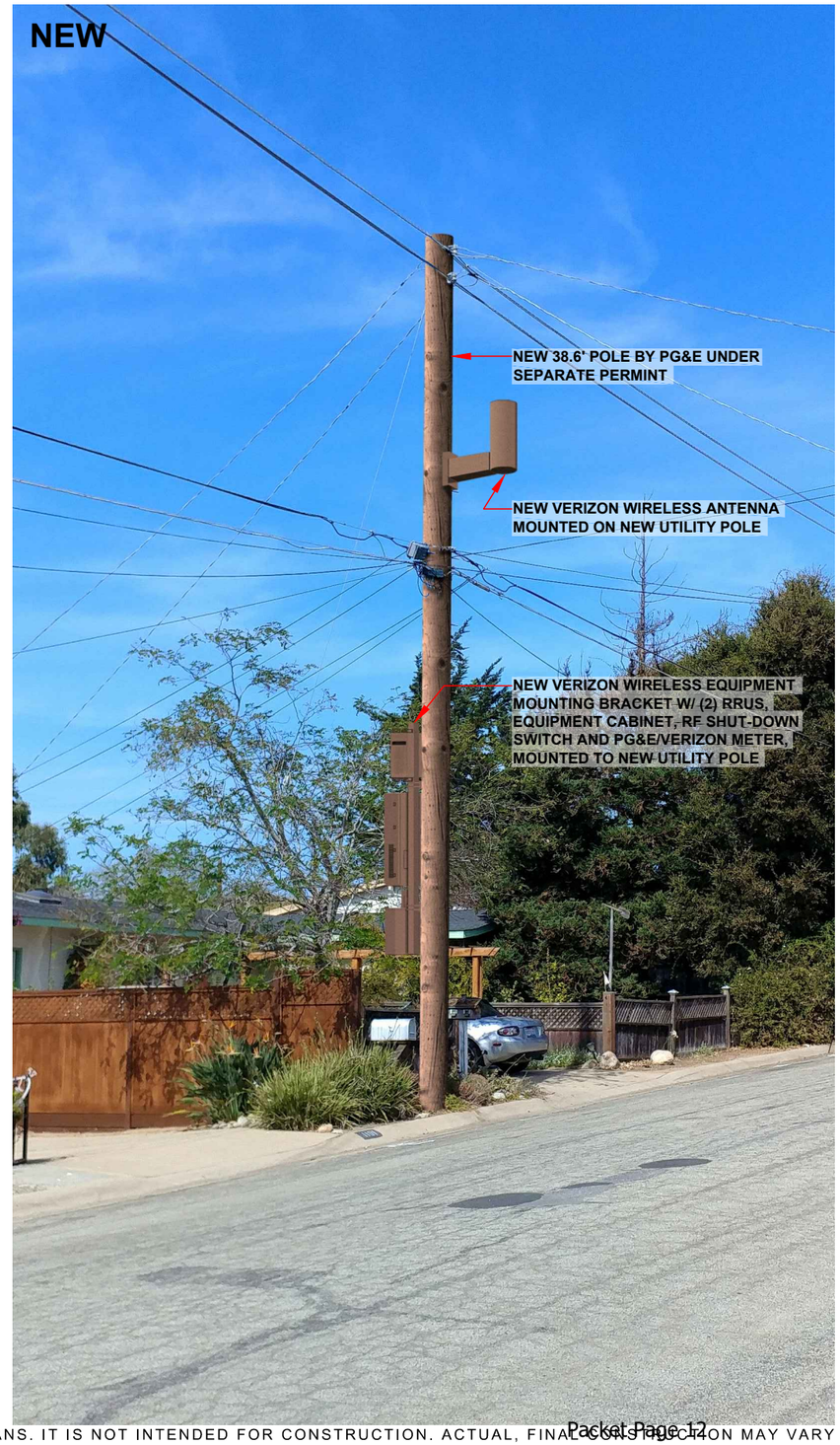




EXISTING



NEW



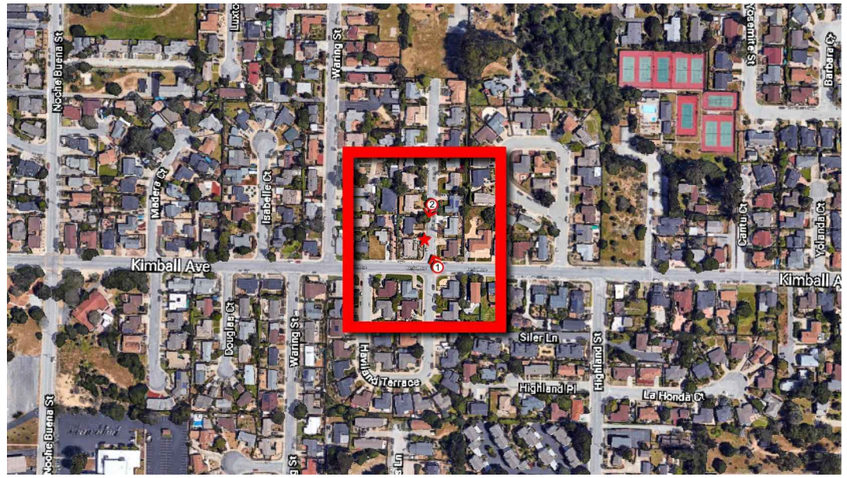
DISCLAIMER: THIS PHOTOSIMULATION IS INTENDED AS A GRAPHICAL REPRESENTATION OF EXISTING AND PROPOSED SITE CONDITIONS BASED ON THE PROJECT / DRAWING PLANS. IT IS NOT INTENDED FOR CONSTRUCTION. ACTUAL, FINAL CONSTRUCTION MAY VARY

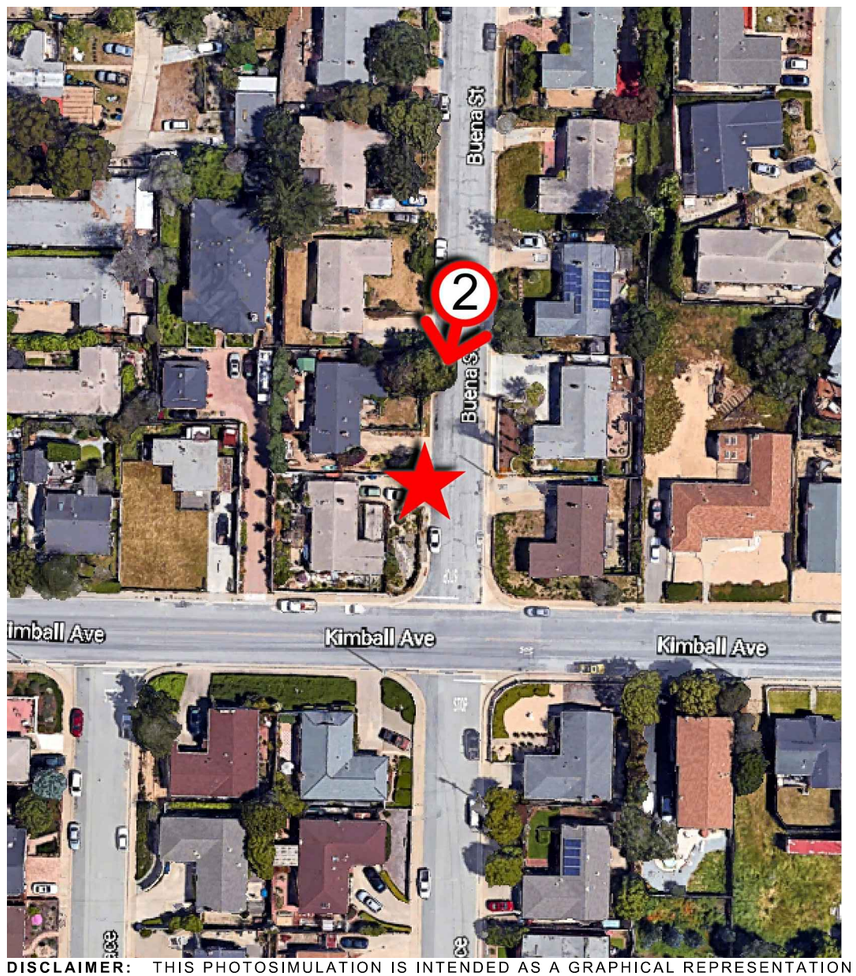
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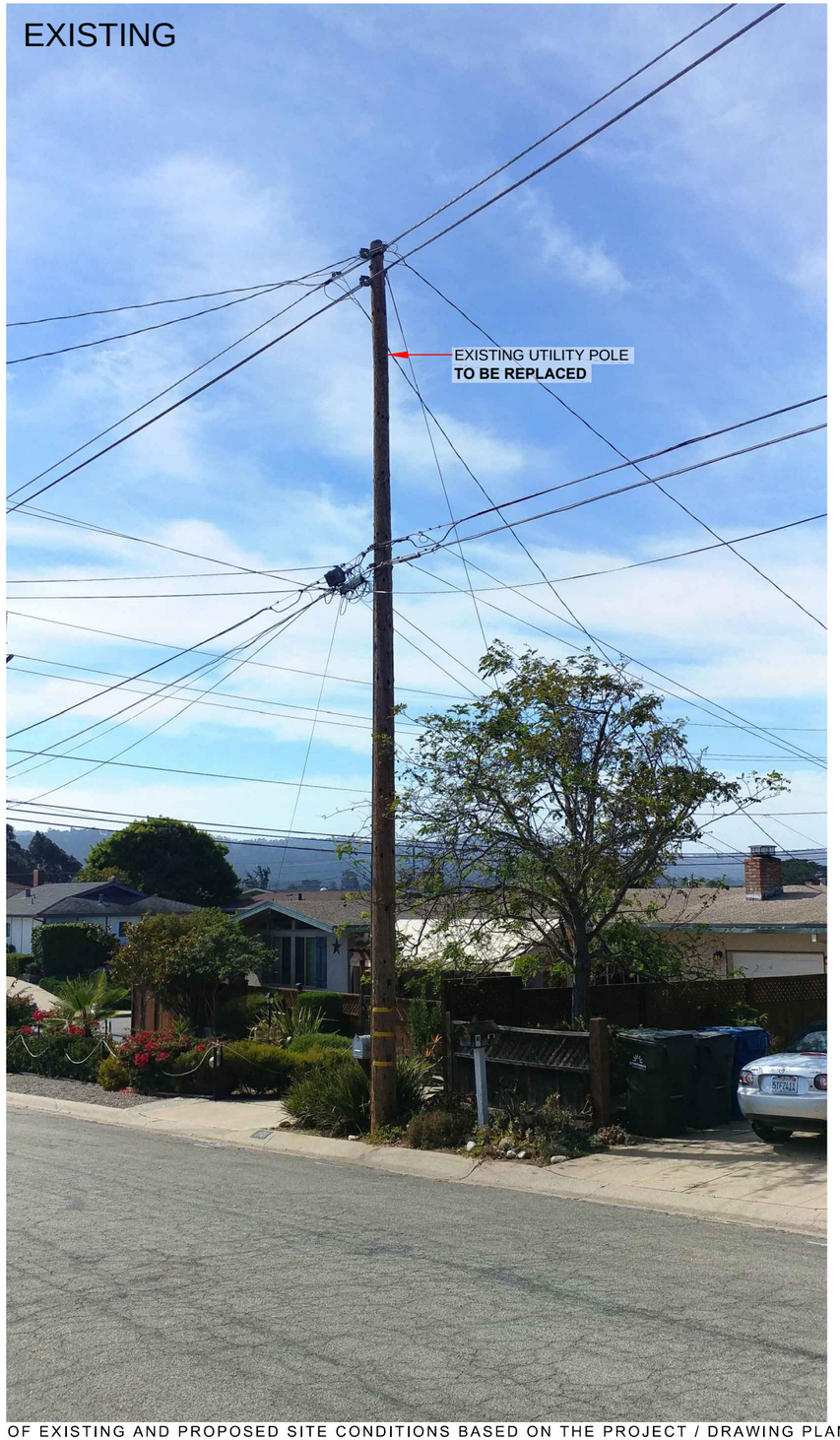
SAC WIRELESS
SAC AE DESIGN GROUP, INC.
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SAN DIEGO, CA 92122
www.sacw.com

PHOTOSIMULATION VIEWPOINT 2

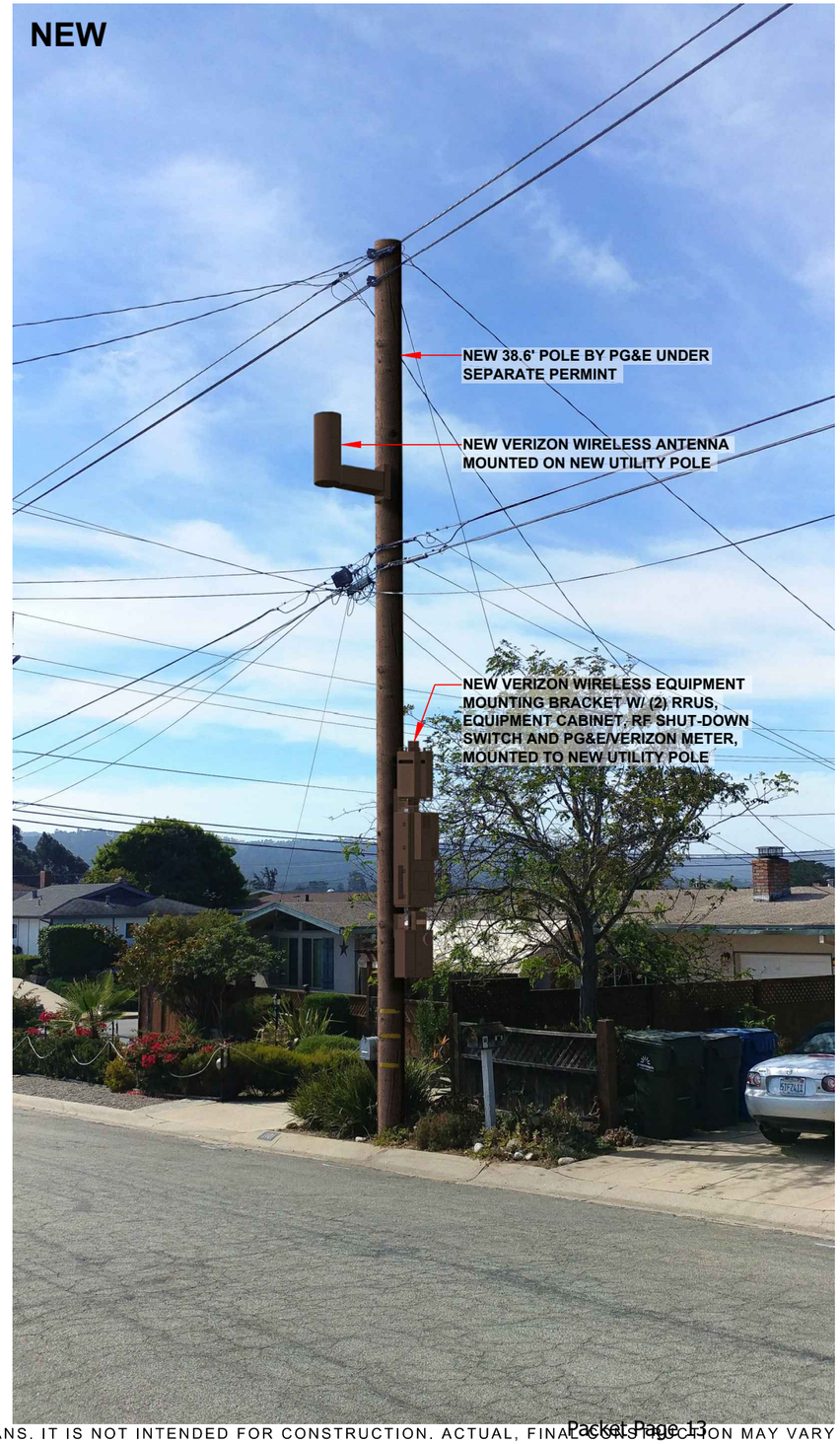




EXISTING



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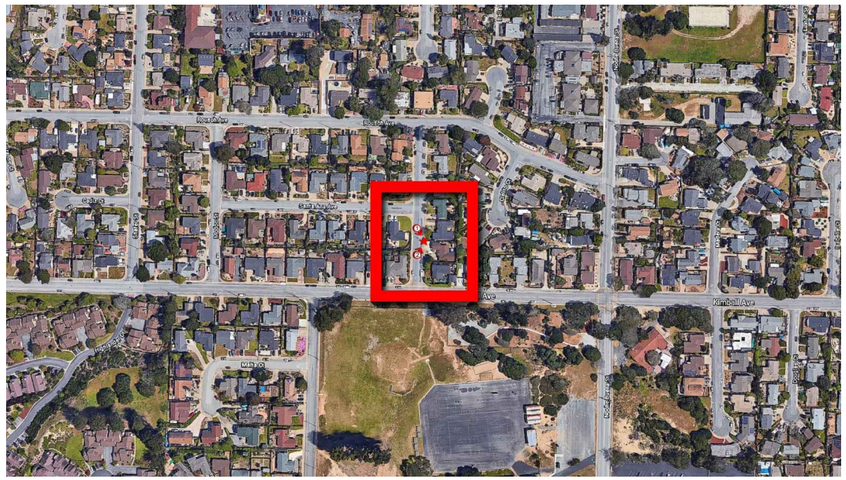
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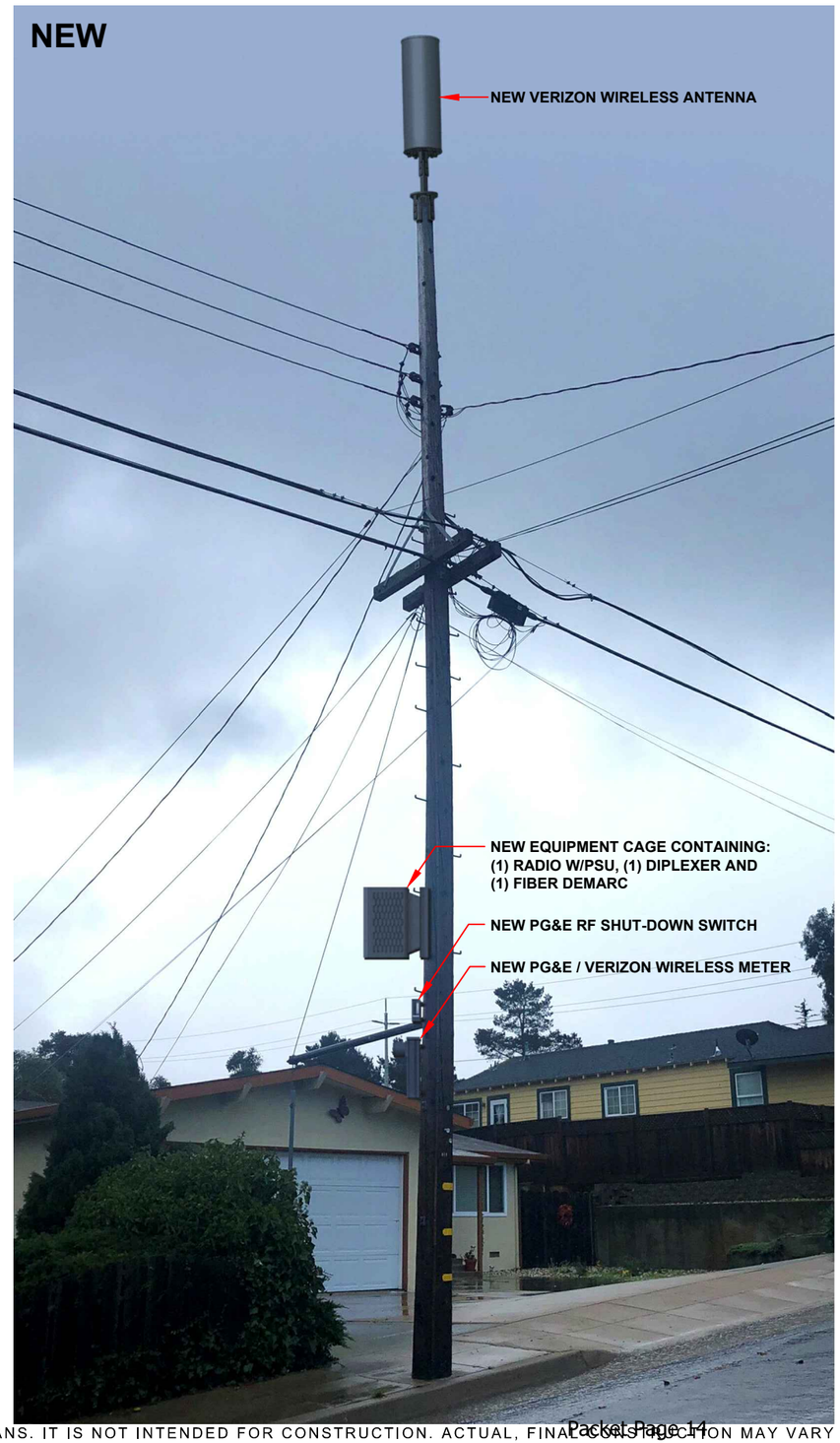
PHOTOSIMULATION VIEWPOINT 1



EXISTING



NEW



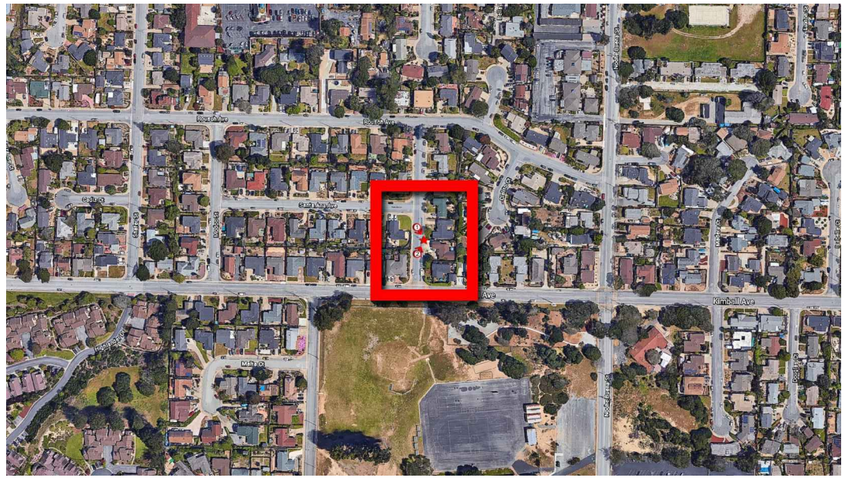
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verizon

CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
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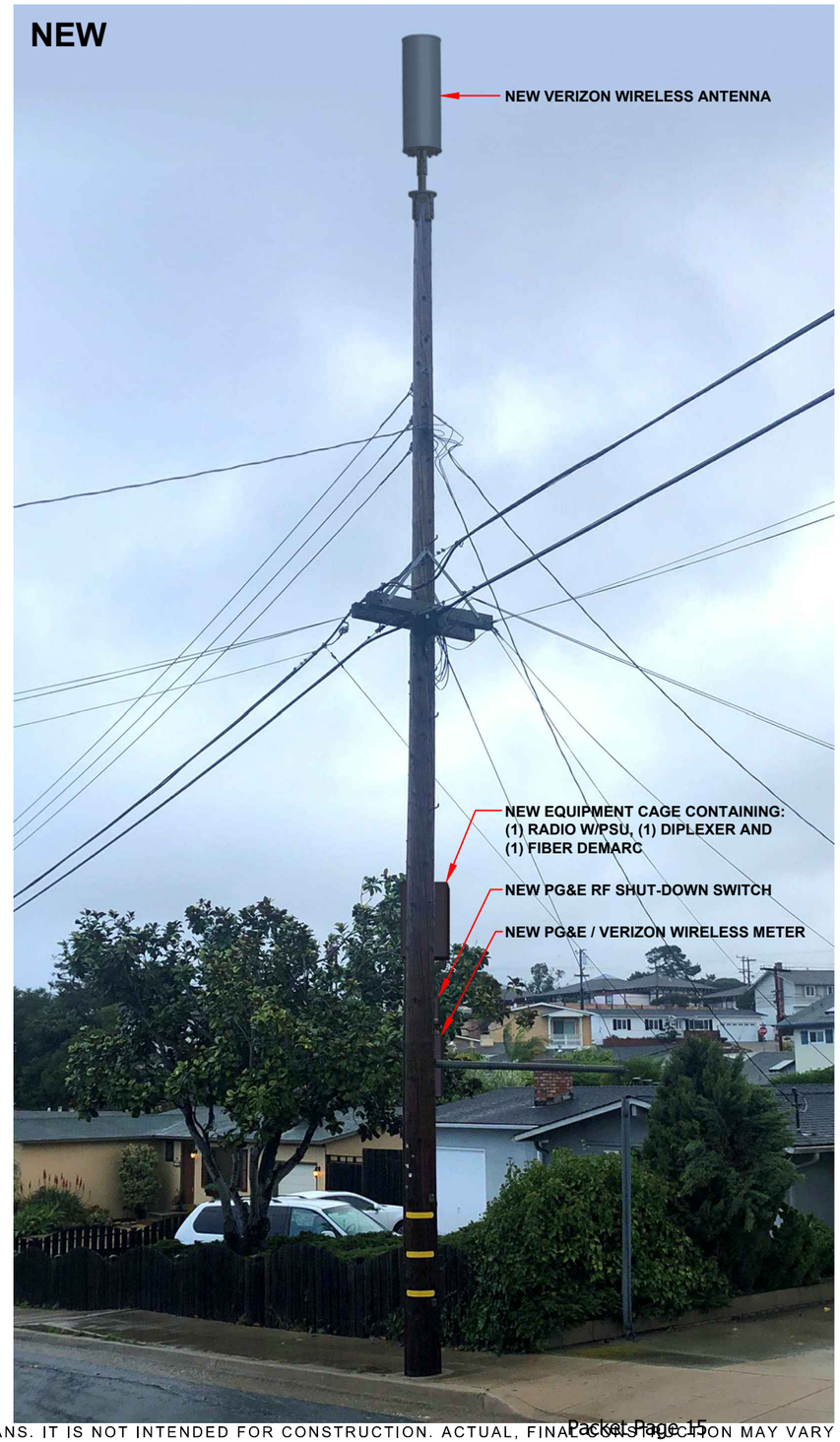
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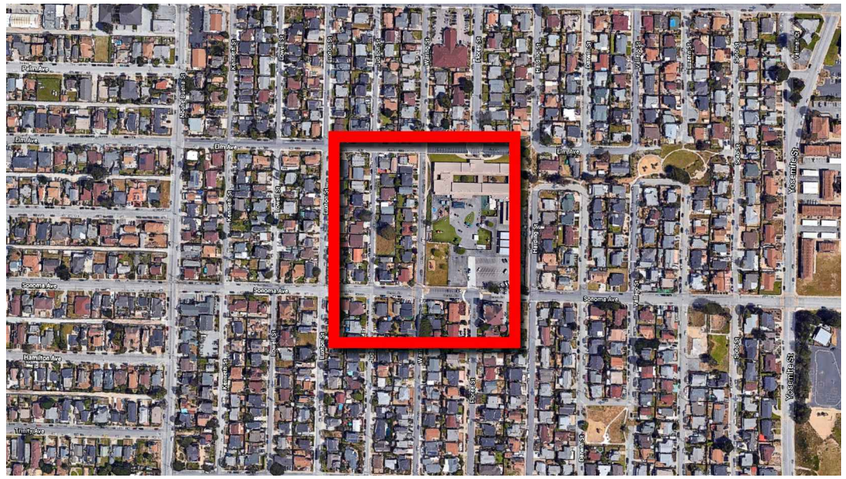
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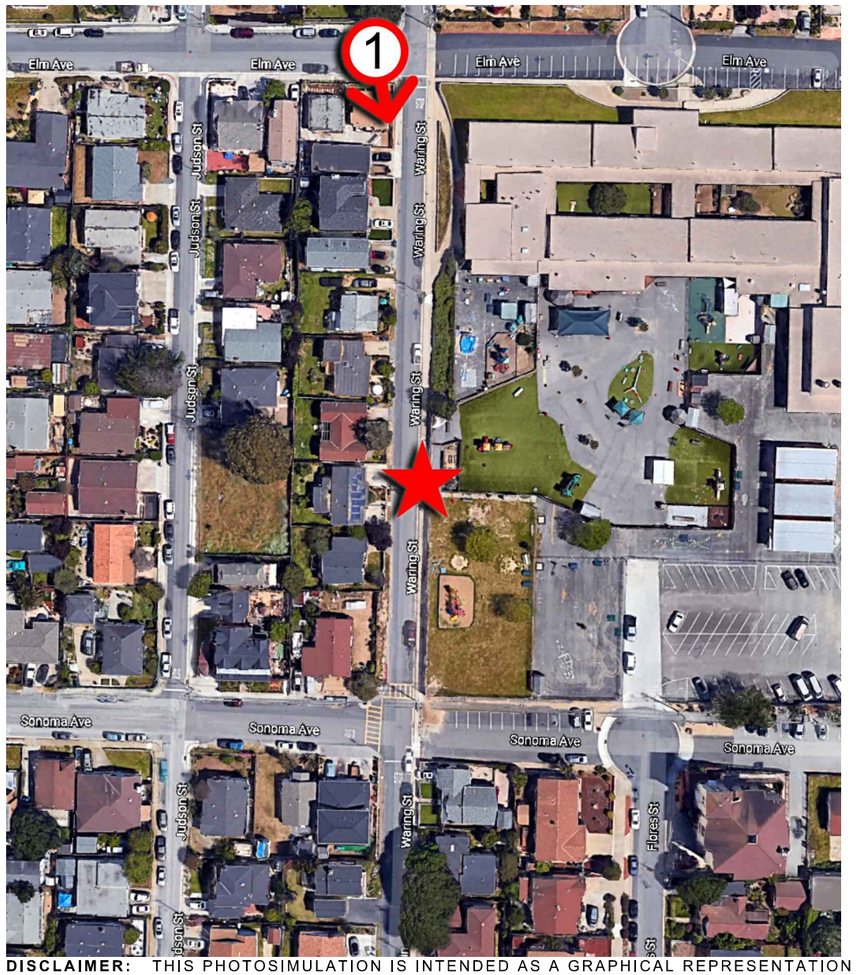
PHOTOSIMULATION VIEWPOINT 1

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CC SEASIDE 004
PSL # 473028
1431 WARING ST
SEASIDE, CA 93955

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NEW



EXISTING



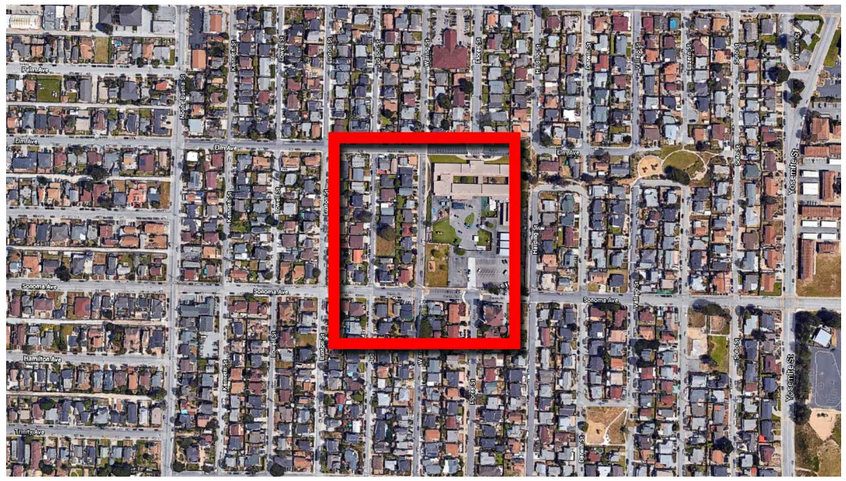
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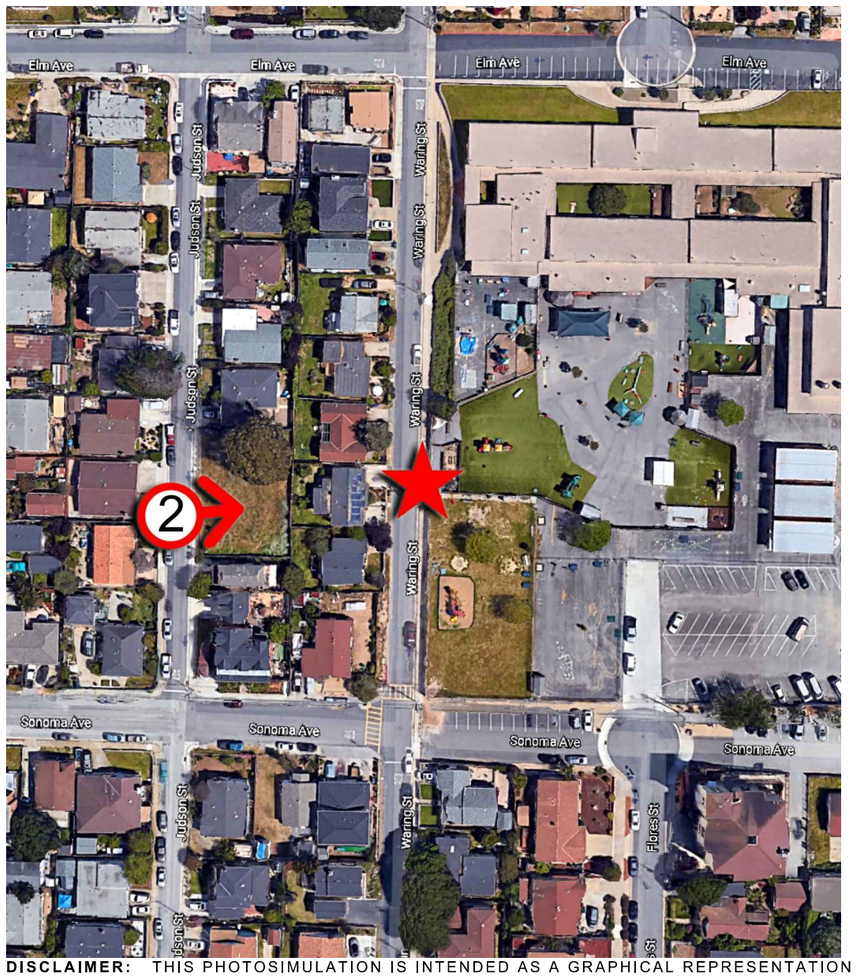
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PHOTOSIMULATION VIEWPOINT 2





NEW



EXISTING



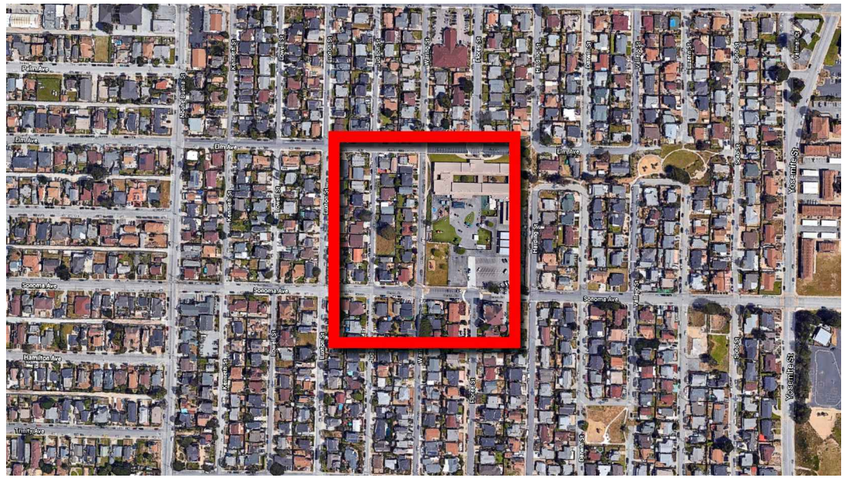
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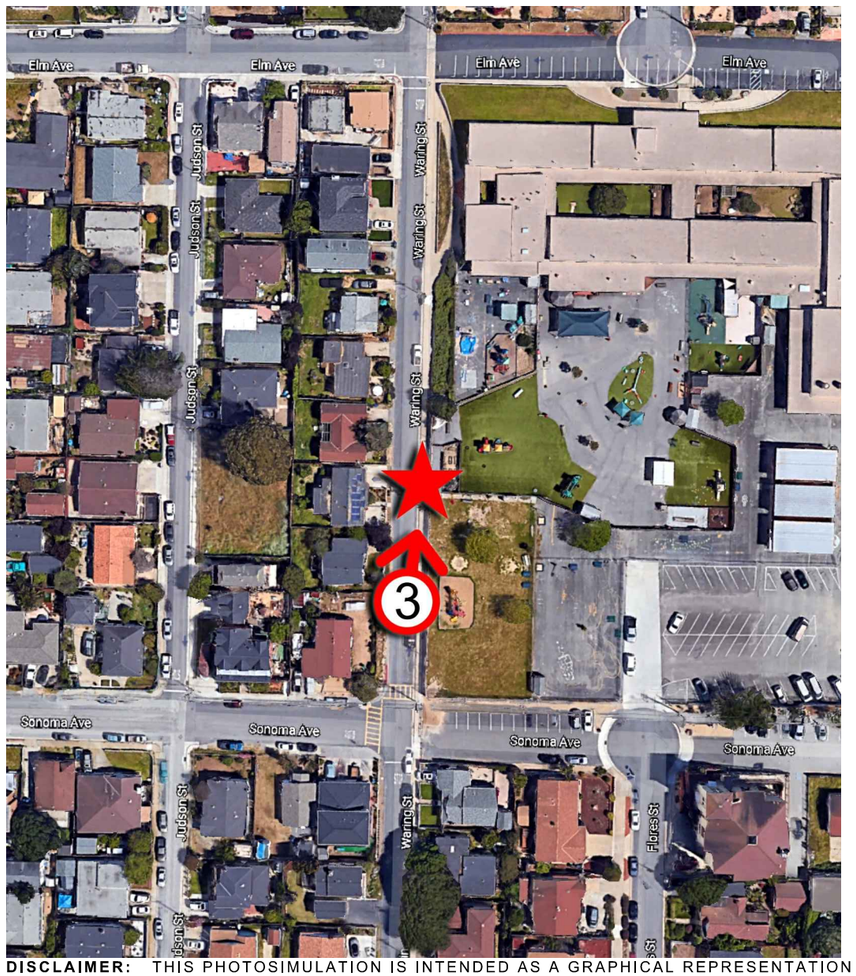
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PHOTOSIMULATION VIEWPOINT 3

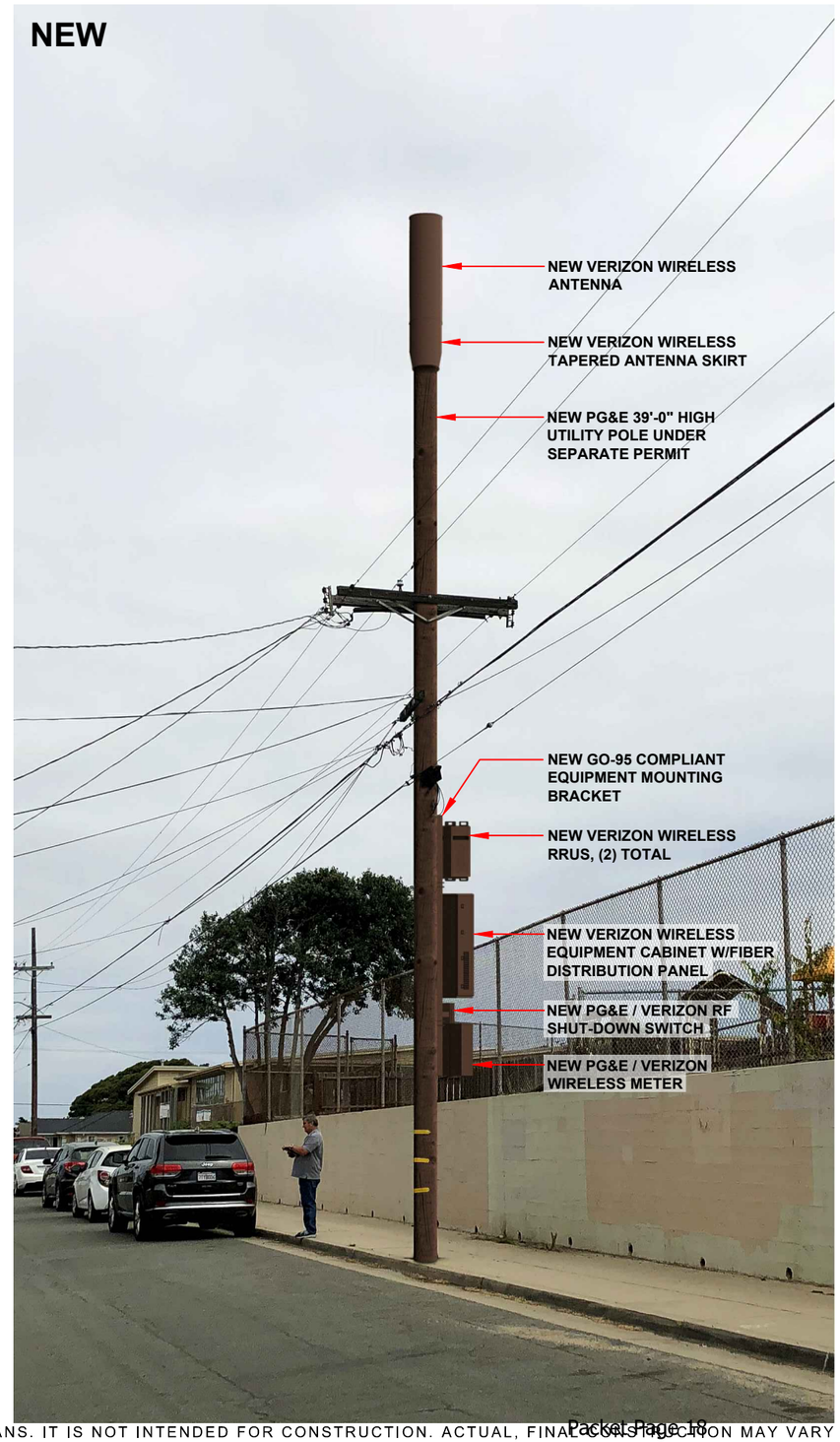




EXISTING



NEW



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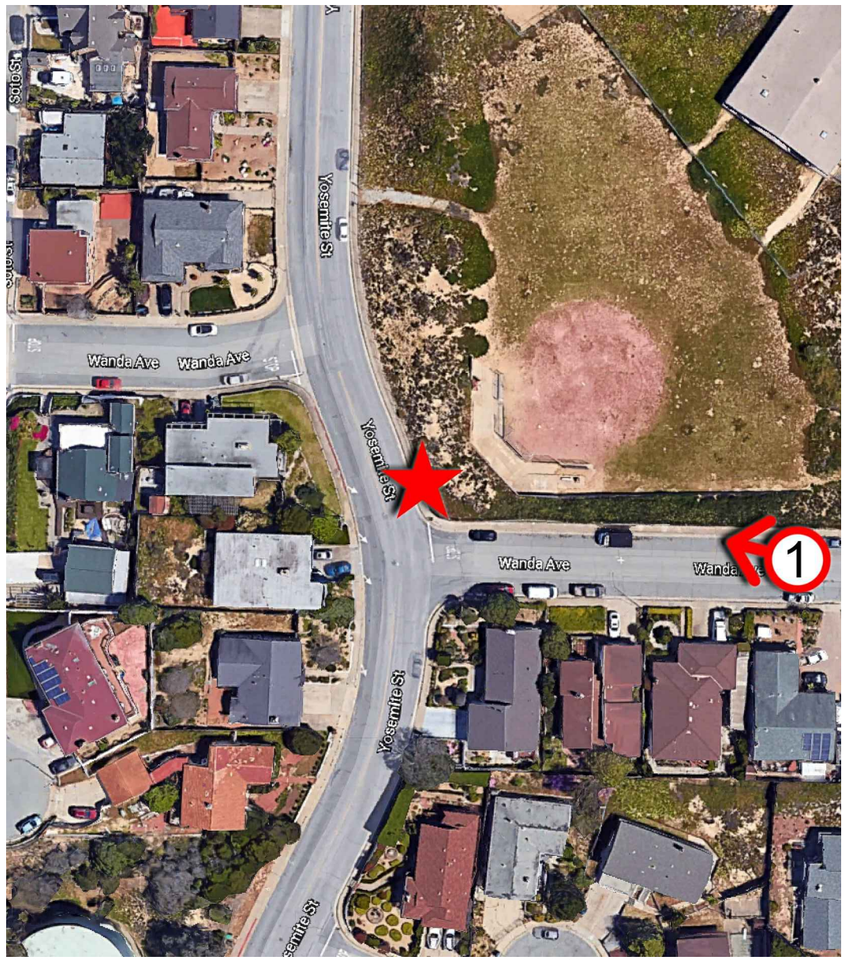
PHOTOSIMULATION VIEWPOINT 1

verizon

CC SEASIDE 002
PSL # 473025
1268 YOSEMITE ST.
SEASIDE, CA 93955

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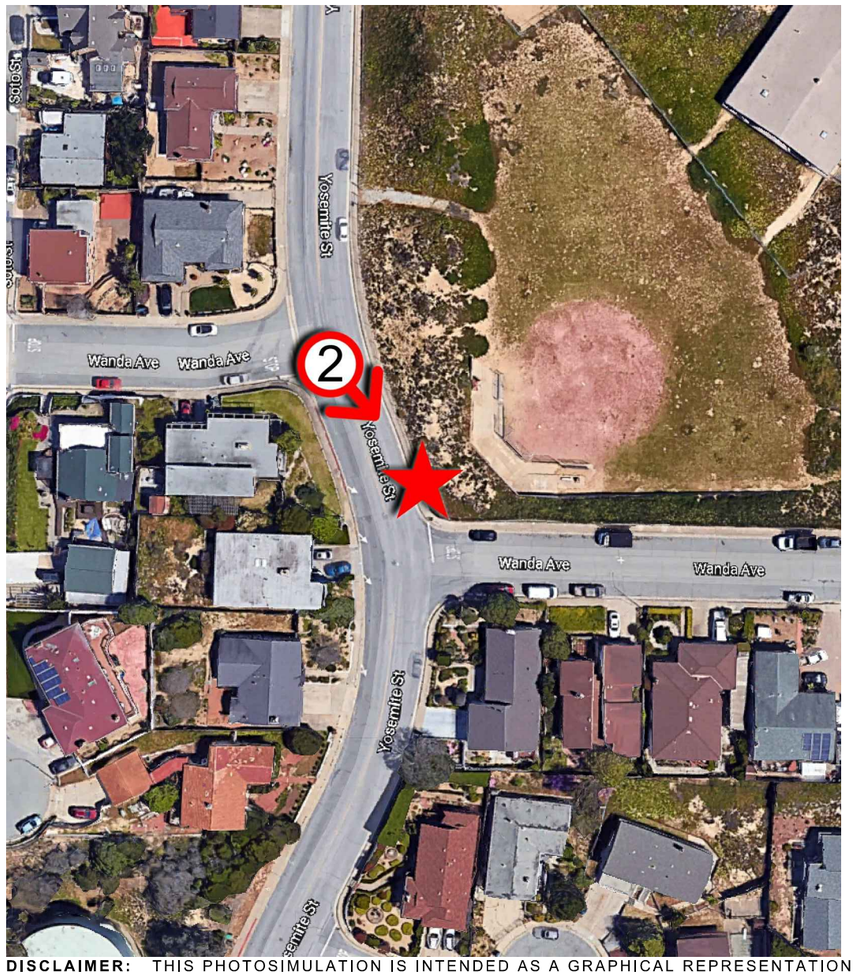
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SEASIDE, CA 93955

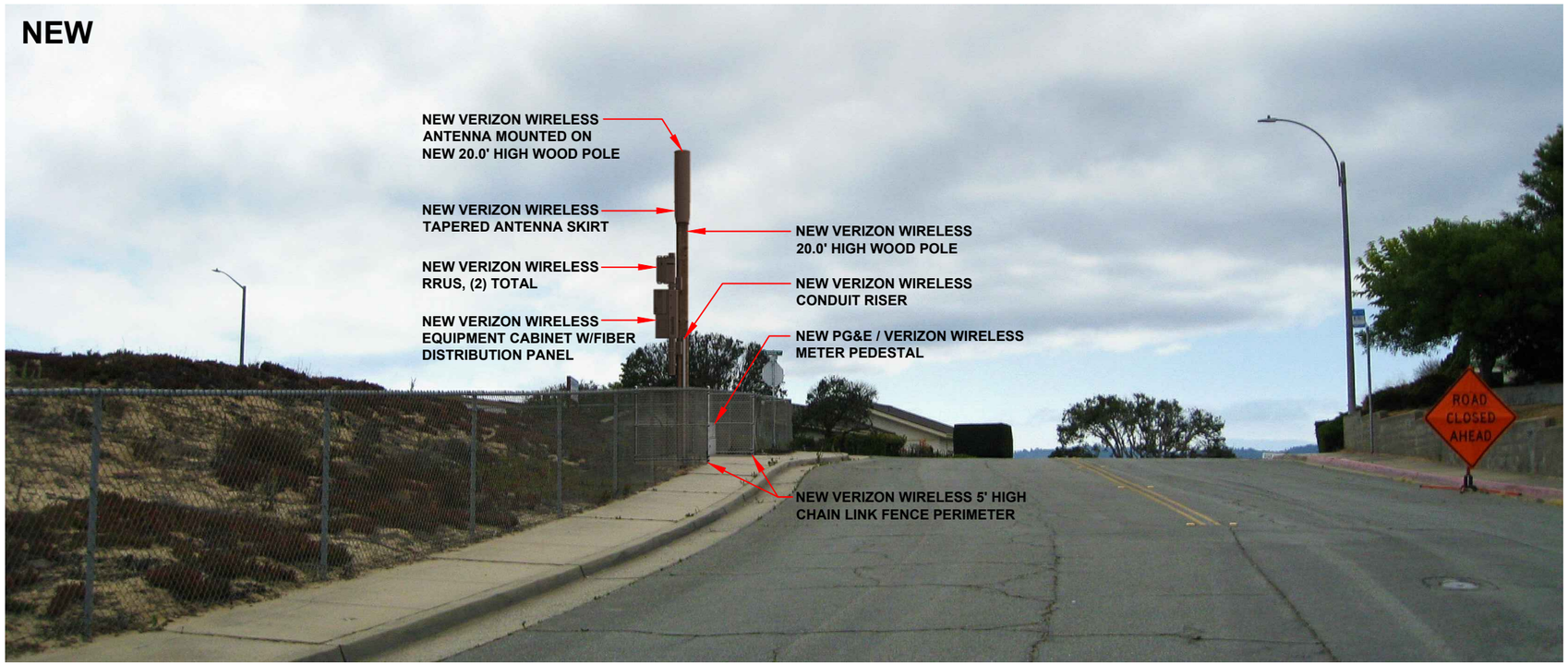
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PHOTOSIMULATION VIEWPOINT 2

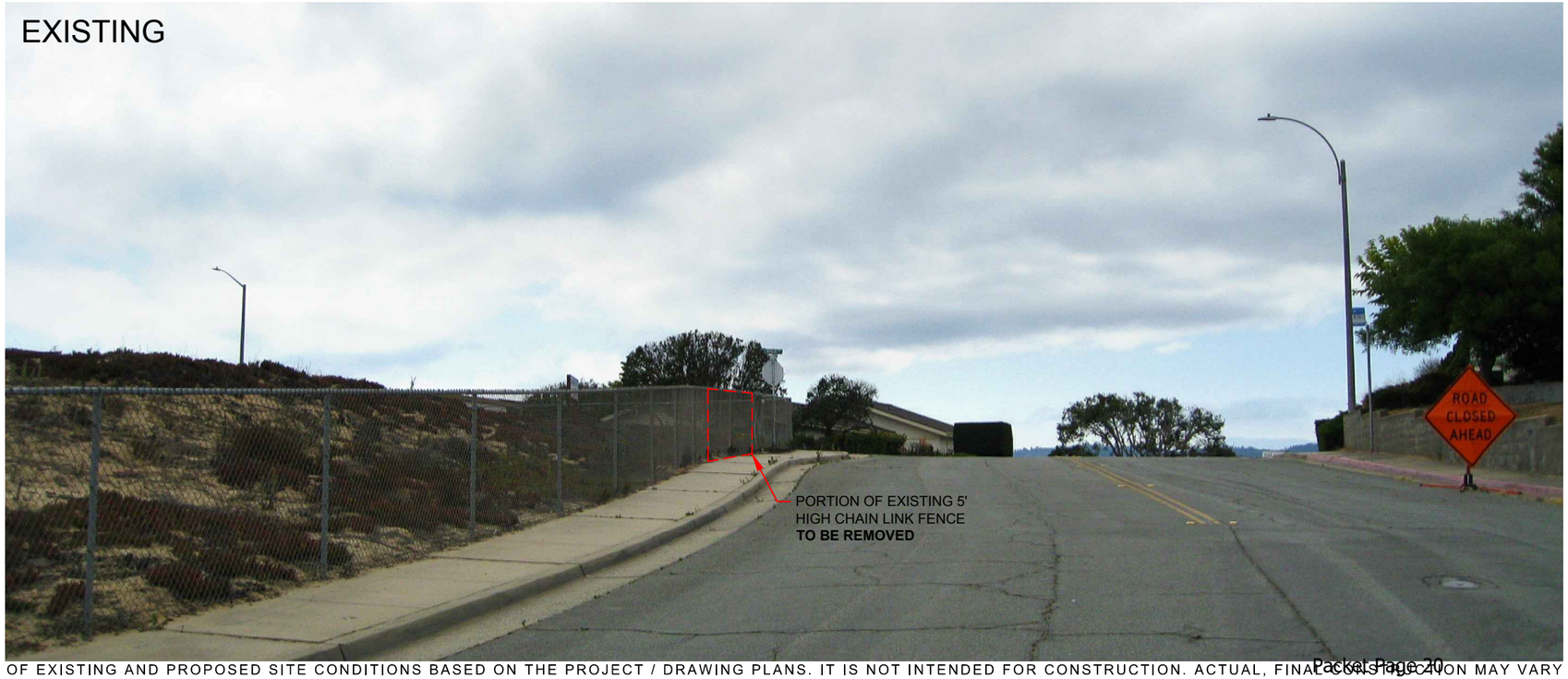




NEW



EXISTING



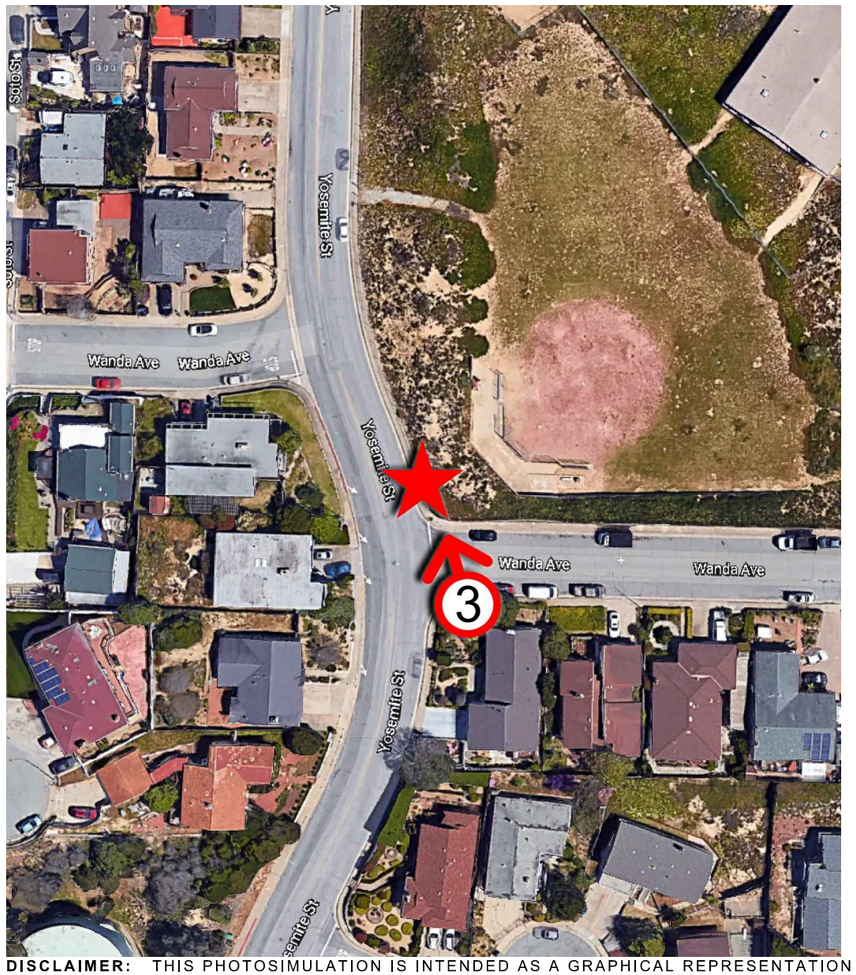
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SEASIDE, CA 93955

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PHOTOSIMULATION VIEWPOINT 3





NEW



EXISTING



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CC SEASIDE 003
PSL # 473026

1101 BUENA ST.
SEASIDE, CA 93955

PROJECT TEAM

SITE ACQUISITION
SAC WIRELESS, LLC.
1851 HERITAGE LANE
SUITE 182
SACRAMENTO, CA 95815
CONTACT: KRISTINA DEMOLLI
TELEPHONE: (916) 600-9610
KRISTINA.DEMOLLI@SACW.COM

ARCHITECT:
SAC WIRELESS, LLC.
NESTOR POPOWYCH, AIA
5015 SHOREHAM PLACE SUITE 150
SAN DIEGO, CA 92122
CONTACT: OMAR MUNOZ
TELEPHONE: (619) 736-3588
FAX: (760) 931-0908
OMAR.MUNOZ@SACW.COM

UTILITY COORDINATOR:
SAC WIRELESS, LLC.
1057 LA VISTA ROAD
SANTA BARBARA, CA 93110
CONTACT: CRAIG ENGEL
TELEPHONE: (805) 440-0038

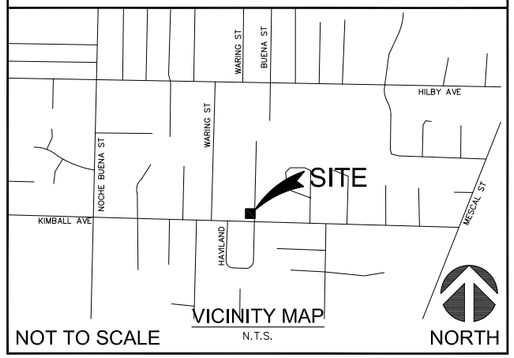
PLANNING
TEK CONSULTING INC.
PERMIT PROCESSING SERVICES
123 SEACLIFF DR
PISMO BEACH, CA 93449
CONTACT: TRICIA KNIGHT
TELEPHONE: (805) 448-4221
FAX: (805) 888-2807
TEK-CONSULTING.NET

SURVEYOR:
SMITHCO SURVEYING ENGINEERING
P.O. BOX 81626
BAKERSFIELD, CA 93380
CONTACT: GREG SMITH, PLS
TELEPHONE: (661) 393-1217

VERIZON WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
CONSTRUCTION:		
RADIO:		
MICROWAVE:		
TELCO:		
EQUIPMENT:		
PROJECT ADMINISTRATOR:		
WO ADMINISTRATOR:		

VICINITY MAP



DRIVING DIRECTIONS

FROM: 2785 MITCHELL DR.
WALNUT CREEK, CA 94958

TO: 1101 BUENA ST.
SEASIDE, CA 93955

1. HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD
2. TURN RIGHT ONTO OAK GROVE RD
3. TURN RIGHT ONTO YGNACIO VALLEY RD
4. YGNACIO VALLEY RD TURNS RIGHT AND BECOMES HILLSIDE AVE
5. USE THE LEFT 2 LANES TO TURN LEFT ONTO THE INTERSTATE 680 S RAMP TO SAN JOSE
6. MERGE ONTO I-680 S
7. USE THE RIGHT 3 LANES TO MERGE ONTO US-101 S TOWARD LOS ANGELES
8. TAKE EXIT 336 TOWARD MONTEREY/PENINSULA
9. MERGE ONTO CA-156 W
10. MERGE ONTO CA-1 S
11. TAKE EXIT 403 FOR CA-218 TOWARD SEASIDE/DEL REY OAKS
12. KEEP LEFT TO CONTINUE ON CA-218 E/CANYON DEL REY BLVD
13. KEEP RIGHT TO CONTINUE ON CANYON DEL REY BLVD
14. TURN LEFT ONTO FREMONT BLVD
15. TURN RIGHT ONTO KIMBALL AVE
16. TURN LEFT ONTO BUENA ST.
17. YOU HAVE ARRIVED AT 1101 BUENA ST. ON THE LEFT HAND SIDE.

PROJECT DESCRIPTION

THIS PROJECT IS A VERIZON WIRELESS UNMANNED TELECOMMUNICATION WIRELESS FACILITY. IT WILL CONSIST OF THE FOLLOWING:

- (1) NEW 38.6' (AGL) POLE BY PG&E UNDER SEPARATE PERMIT
- (1) NEW ANTENNA
- (1) NEW EQUIPMENT CABINET
- (1) RF SHUT DOWN SWITCH
- (2) NEW RRU'S
- (1) NEW FIBER DISTRIBUTION PANEL
- (1) NEW PG&E / VERIZON WIRELESS METER
- NEW VERIZON WIRELESS POLE STEPS

PROJECT SUMMARY

APPLICANT/LESSEE
verizon
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598
OFFICE: (925) 279-6000

APPLICANT'S REPRESENTATIVE
TEK CONSULTING INC.
PERMIT PROCESSING SERVICES
123 SEACLIFF DR
PISMO BEACH, CA 93449
CONTACT: TRICIA KNIGHT
TELEPHONE: (805) 448-4221
FAX: (805) 888-2807
TEK-CONSULTING.NET

POLE OWNER:
OWNER: JPA/PG&E
CONTACT: PACIFIC GAS & ELECTRIC
BRIAN MORROW
160 COW MEADOW PL
TEMPLETON, CA 93465
PHONE #: (661) 319-9087

PROPERTY INFORMATION:
SITE NAME: CC SEASIDE 003
SITE NUMBER: 473026
SITE ADDRESS: 1101 BUENA ST.
SEASIDE, CA 93955
JURISDICTION: CITY OF SEASIDE

ASSESSOR'S PARCEL NUMBER
PUBLIC RIGHT-OF-WAY

GEODETIC COORDINATES
LAT. 36° 35' 59.01" N. NAD 83
LONG. 121° 50' 01.96" W. NAD 83
ELEV. 179.7' NAVD 88 (BASIS OF DRAWING)

CONSTRUCTION INFORMATION

OCCUPANCY:	U
TYPE OF CONSTRUCTION:	V-B
CURRENT ZONING:	R.O.W.
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2016 CALIFORNIA ADMINISTRATIVE CODE
- 2016 CALIFORNIA BUILDING CODES
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA FIRE CODE
- 2016 CALIFORNIA ENERGY CODE
- CITY & COUNTY ORDINANCES

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	1
T-2	RF SIGNAGE DETAIL, NOTES, LEGEND & ABBREVIATIONS	1
T-3	GENERAL NOTES & SPECIFICATIONS	1
C-1	SITE SURVEY	1
A-1	SITE PLAN	1
A-2	ENLARGED SITE PLAN, EQUIPMENT & ANTENNA LAYOUT	1
A-3	NORTHEAST & SOUTHEAST ELEVATIONS	1
A-4	DETAILS	1
A-5	DETAILS	1
E-1	POWER 1 LINE DIAGRAM, DETAILS & NOTES	1
G-1	GROUNDING PLAN & NOTES	1
G-2	GROUNDING DETAILS	1

CONSTRUCTION DRAWINGS

SAC WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
PLANNER:		
CONSTRUCTION:		
LANDLORD:		

CALL 811
WWW.CALL811.COM
CONTRACTOR TO CALL TO VERIFY UTILITIES AT LEAST TWO WORKING DAYS PRIOR TO DIGGING
Know what's below. Call before you dig.

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	12/13/17	90% CONSTRUCTION	OM
1	02/21/18	100% CONSTRUCTION	OM

SAC WIRELESS
SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS
ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

verizon
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 003
PSL # 473026
1101 BUENA ST.
SEASIDE, CA 93955

SHEET TITLE:

T-1

GENERAL FIRE NOTES: (SFM)

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2013 CFC SECTION 1401.
2. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. [2013 CFC SECTION 505.1]
3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. [2013 CFC SECTION 807-1.2]
4. PORTABLE FIRE EXTINGUISHERS:
   AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. [2013 CFC SECTION 906.1.1 AND SECTION 906.3.1)]

NOTES 3

- NEW ANTENNA
- EXISTING ANTENNA
- GROUND ROD
- GROUND BUS BAR
- MECHANICAL GRND. CONN.
- CADWELD
- GROUND ACCESS WELL
- ELECTRIC BOX
- TELEPHONE BOX
- LIGHT POLE
- FND. MONUMENT
- SPOT ELEVATION
- SET POINT
- REVISION
- UTILITY POLE
- ANTENNA (CANTENNA)
- SEWER MANHOLE
- SIGNAGE (TRAFFIC)
- PROPERTY/LEASE LINE
- CENTERLINE
- MATCH LINE
- WORK POINT
- GROUND CONDUCTOR
- GRID REFERENCE
- DETAIL REFERENCE
- ELEVATION REFERENCE
- SECTION REFERENCE
- WOOD CONT.
- WOOD BLOCKING
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- GROUT OR PLASTER
- PLYWOOD
- SAND
- STEEL
- X — EXISTING CHAIN-LINK FENCING
- NEW CHAIN-LINK FENCING
- WROUGHT IRON FENCING
- WOOD FENCING
- E — ELECTRICAL CONDUIT (POWER)
- OH/E — OVERHEAD ELECTRICAL (POWER)
- UG/E — UNDERGROUND ELECTRICAL (POWER)
- T — TELEPHONE CONDUIT
- OH/T — OVERHEAD TELCO
- UG/T — UNDERGROUND TELCO
- E/T — ELECTRICAL / TELCO CONDUIT (POWER & FIBER)
- OH/ET — OVERHEAD POWER & TELCO
- UG/ET — UNDERGROUND POWER & TELCO
- CC — COAXIAL CABLE
- F — FIBER / HYBRID
- POWER / FIBER

LEGEND 2

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
A.B.	ANCHOR BOLT	FAB.	FABRICATION(OR)	PWR.	POWER (CABINET)
ABV.	ABOVE	F.F.	FINISH FLOOR	QTY.	QUANTITY
ACCA	ANTENNA CABLE COVER ASSEMBLY	F.G.	FINISH GRADE	RAD.(R)	RADIUS
ADDL	ADDITIONAL	FIN.	FINISH(ED)	REF.	REFERENCE
A.F.F.	ABOVE FINISHED FLOOR	FLR.	FLOOR	REINF.	REINFORCEMENT(ING)
A.F.G.	ABOVE FINISHED GRADE	FDN.	FOUNDATION	REQ'D.	REQUIRED
ALUM.	ALUMINUM	F.O.C.	FACE OF CONCRETE	RGS.	RIGID GALVANIZED STEEL
ALT.	ALTERNATE	F.O.M.	FACE OF MASONRY	SCH.	SCHEDULE
ANT.	ANTENNA	F.O.S.	FACE OF STUD	SHT.	SHEET
APPRX.	APPROXIMATE(LY)	F.O.W.	FACE OF WALL	SIM.	SIMILAR
ARCH.	ARCHITECT(URAL)	F.S.	FINISH SURFACE	SPEC.	SPECIFICATION(S)
AWG.	AMERICAN WIRE GAUGE	FT.(')	FOOT(FEET)	SQ.	SQUARE
BLDG.	BUILDING	FTG.	FOOTING	S.S.	STAINLESS STEEL
BLK.	BLOCK	G.	GROWTH (CABINET)	STD.	STANDARD
BLKG.	BLOCKING	GA.	GAUGE	STL.	STEEL
BM.	BEAM	GI.	GALVANIZE(D)	STRUC.	STRUCTURAL
B.N.	BOUNDARY NAILING	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	TEMP.	TEMPORARY
BTCW.	BARE TINNED COPPER WIRE	GLB.(GLU-LAM)	GLUE LAMINATED BEAM	THK.	THICK(NESS)
B.O.F.	BOTTOM OF FOOTING	GPS	GLOBAL POSITIONING SYSTEM	T.N.	TOE NAIL
B/U	BACK-UP CABINET	GRND.	GROUND	T.O.A.	TOP OF ANTENNA
CAB.	CABINET	HDR.	HEADER	T.O.C.	TOP OF CURB
CANT.	CANTILEVER(ED)	HGR.	HANGER	T.O.F.	TOP OF FOUNDATION
C.I.P.	CAST IN PLACE	HT.	HEIGHT	T.O.P.	TOP OF PLATE (PARAPET)
CLG.	CEILING	ICGB.	ISOLATED COPPER GROUND BUS	T.O.S.	TOP OF STEEL
CLR.	CLEAR	IN.(")	INCH(ES)	T.O.W.	TOP OF WALL
COL.	COLUMN	INT.	INTERIOR	TYP.	TYPICAL
CONC.	CONCRETE	LB.(#)	POUND(S)	U/G	UNDER GROUND
CONN.	CONNECTION(OR)	L.B.	LAG BOLTS	U.L.	UNDERWRITERS LABORATORY
CONST.	CONSTRUCTION	L.F.	LINEAR FEET (FOOT)	U.N.O.	UNLESS NOTED OTHERWISE
CONT.	CONTINUOUS	L.	LONG(ITUDINAL)	V.I.F.	VERIFY IN FIELD
d	PENNY (NAILS)	MAS.	MASONRY	W	WIDE(WIDTH)
DBL.	DOUBLE	MAX.	MAXIMUM	W/	WITH
DEPT.	DEPARTMENT	M.B.	MACHINE BOLT	WD.	WOOD
D.F.	DOUGLAS FIR	MECH.	MECHANICAL	W.P.	WEATHERPROOF
DIA.	DIAMETER	MFR.	MANUFACTURER	WT.	WEIGHT
DIAG.	DIAGONAL	MIN.	MINIMUM	℄	CENTERLINE
DIM.	DIMENSION	MISC.	MISCELLANEOUS	ℙ	PLATE
DWG.	DRAWING(S)	MTL.	METAL		
DWL.	DOWEL(S)	(N)	NEW		
EA.	EACH	NO.(#)	NUMBER		
EL.	ELEVATION	N.T.S.	NOT TO SCALE		
ELEC.	ELECTRICAL	O.C.	ON CENTER		
ELEV.	ELEVATOR	OPNG.	OPENING		
EMT.	ELECTRICAL METALLIC TUBING	P/C	PRECAST CONCRETE		
E.N.	EDGE NAIL	PCS	PERSONAL COMMUNICATION SERVICES		
ENG.	ENGINEER	PLY.	PLYWOOD		
EQ.	EQUAL	PPC	POWER PROTECTION CABINET		
EXP.	EXPANSION	PRC	PRIMARY RADIO CABINET		
EXST.(E)	EXISTING	P.S.F.	POUNDS PER SQUARE FOOT		
EXT.	EXTERIOR	P.S.I.	POUNDS PER SQUARE INCH		

ABBREVIATIONS 1



TYPICAL CAUTION SIGN

RF CAUTION SIGNAGE 4

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	12/13/17	90% CONSTRUCTION	OM
1	02/21/18	100% CONSTRUCTION	OM

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SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
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WALNUT CREEK, CA 94598

CC SEASIDE 003
PSL # 473026
1101 BUENA ST.
SEASIDE, CA 93955

SHEET TITLE:
NOTES, LEGEND & ABBREVIATIONS

T-2

GENERAL

1. THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS U [2016 CBC, TITLE 24, PART 2, VOLUME 1, SECTION 312.].
2. THIS FACILITY IS EXEMPT FROM ACCESSIBILITY REQUIREMENTS PER 2016 CBC SECTION 11B-203.5 THIS FACILITY IS NON-OCCUPIABLE SPACE & ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BIDS, & PROCEEDING WITH ANY WORK.
4. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER & SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT.
5. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, & TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
7. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, & BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, & TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
10. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. & ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, & 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
11. THE CONTRACTOR & SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL & STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
12. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
13. THE CONTRACTOR SHALL SUPERVISE & COORDINATE ALL WORK, USING HIS/HER PROFESSIONAL KNOWLEDGE & SKILLS. HE/SHE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCING & COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN & PAY FOR ALL PERMITS, LICENSES & INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT & MAKE FINAL PAYMENT OF SAID DOCUMENT.
15. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
17. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
18. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL & PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
19. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
20. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
21. ALL GENERAL NOTES & STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
22. ALL DEBRIS & REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
23. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING & CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
24. ALL SYMBOLS & ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

CONCRETE

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS OTHERWISE NOTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" & ALL HOOKS SHALL BE STANDARD U.N.O.
2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.
3. BARS NOTED "CONT.", TYPICAL WALL REINFORCING, & VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL 40 BAR DIAMETERS LAP, OR 24" WHICHEVER IS GREATER.
4. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICE AT OTHER LOCATIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
5. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED.
6. ALL REINFORCING, ANCHOR BOLTS & OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
7. #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
8. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE:

BELOW GRADE (UNFORMED)	3"	CLEAR
BELOW GRADE (FORMED)	2"	CLEAR
WALLS	1"	CLEAR
COLUMNS	1 1/2"	CLEAR
BEAMS & GIRDERS	1 1/2"	CLEAR
STRUCTURAL SLAB (ABOVE GRADE)	3/4"	CLEAR

CONCRETE (GENERAL)

1. STRUCTURAL FILL & BACKFILL SHOULD CONSIST OF A NON-EXPANSIVE GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER & PLACED IN UNIFORM 6" LIFTS.
2. STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
3. STRUCTURAL FILL UNDERNEATH FOUNDATIONS & SLABS SHALL BE COMPACTED WITH A SMOOTH VIBRATORY COMPACTION DEVICE PRIOR TO CONCRETE PLACEMENT.
4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CURRENT ACI 318.
5. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI. UNLESS OTHERWISE SPECIFIED. WATER CEMENTITIOUS MATERIAL/RATIO & AIR CONTENT SHALL COMPLY WITH ACI 318 SECTION 19.3.
6. CEMENT FOR CONCRETE OR MASONRY MORTAR SHALL BE TYPE V "PORTLAND CEMENT" & CONFORM TO ASTM C-150 STANDARDS. UNLESS OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT OR IN THE DRAWINGS.
7. AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C-33 STANDARDS.
8. CONCRETE SHALL BE DEPOSITED IN ACCORDANCE WITH 318 SECTION 26.5.2 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
9. COLD WEATHER & HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 19.3 & SECTIONS 26.5.4 & 26.5.5.
10. AFTER PLACEMENT, THE CONCRETE SHALL BE COVERED WITH A PLASTIC VAPOR BARRIER FOR A 4 TO 7 DAY INITIAL CURING PERIOD.
11. A MINIMUM OF THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN. ONE SHALL BE TESTED AT 7 DAYS, ONE AT 28 DAYS, & ONE HOLD CYLINDER. UNLESS OTHERWISE SPECIFIED BY GOVERNING AGENCY.
12. FLOOR SLABS SHALL CONFORM TO ASTM C-38 STANDARDS & SHALL BE 3 1/2 INCHES MINIMUM THICK - SEE FOUNDATION PLANS FOR REINFORCEMENT, BASE, UNDERLAYMENT, VAPOR BARRIER OR OTHER SPECIFIC REQUIREMENTS.
13. FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS. TOLERANCE: 1/8 INCH IN 10 FEET.
14. TOP OF CONCRETE SLAB TO BE 6" MINIMUM ABOVE FINISH GRADE. UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS
15. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
16. ALL EXTERIOR CONCRETE WALLS, PORCHES & PLATFORMS ON SITE TO HAVE A ROCK SALT FINISH. (U.O.N.)
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE PLACEMENT OF ALL ROUGH HARDWARE & ALL ITEMS OF OTHER TRADES REQUIRED TO BE EMBEDDED IN CONCRETE WORK.

METALS

STRUCTURAL FRAMING SYSTEM & EQUIPMENT

1. CABLE LADDERS AT INTERIOR SPACES WHERE INDICATED SHALL BE 1-1/2" SOLID BAR STRINGERS TYPE
2. ALL UNISTRUT SHALL BE P1000 (1-5/8").
3. MICROFLECT SHALL BE B 1 1 1 8 (U.N.O.) TO MATCH CABLE TRAY.
4. CABLE RUNS ON ROOF TOP & OUTDOOR APPLICATIONS, SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. ALL ANTENNA SPECS. PER RF DATA SHEET.

STRUCTURAL METAL

1. ALL STRUCTURAL STEEL SHALL COMPLY WITH MOST RECENT ASTM A-36 STANDARDS.
2. ALL CONNECTIONS & FABRICATIONS SHALL COMPLY WITH MOST RECENT A.I.S.C. SPECIFICATIONS.
3. ALL WELDING SHALL BE PERFORMED BY OPERATORS WHO HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN MOST RECENT "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY.
4. USE ALL MEANS NECESSARY TO PROTECT STRUCTURAL STEEL BEFORE, DURING & AFTER INSTALLATION & TO PROTECT THE INSTALLED WORK & MATERIALS OF ALL OTHER TRADES.
5. IN THE EVENT OF DAMAGE IMMEDIATELY MAKE ALL REPAIRS & REPLACEMENTS NECESSARY TO THE APPROVAL OF & AT NO ADDITIONAL COST TO THE OWNER.
6. HIGH-STRENGTH BOLTS SHALL COMPLY WITH ASTM A-325 N. BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE. OTHER MACHINE BOLTS & ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A-307
7. WELDS SHALL BE MADE WITH ASTM-233, E-70 SERIES ELECTRODES FOR STEEL TO STEEL CONNECTIONS. WELDING OF REINFORCING BARS SHALL BE DONE WITH ELECTRODES AS APPROVED BY A CERTIFIED TESTING LABORATORY.
8. ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAP, HANGER & OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO. OR APPROVED EQUIVALENT.
9. ALL EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZING AFTER FABRICATION.
10. ALL WELDING DONE AFTER GALVANIZING SHALL BE PROTECTED WITH TWO (2) COATS OF "GALVANIZED" OR "GALVALOY"

ELECTRICAL

1. REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION
2. ALL ELECTRIC WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE. (REFER TO THE COVER SHEET)
3. ALL INTERIOR SEISMIC UNISTRUT SHALL BE GROUNDED WITH #6 STRANDED COPPER WITH GREEN JACKET. ALL CONNECTIONS TO BE DOUBLE LUG.
4. BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION & DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT & IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REROUTING OF EXISTING LINES IS NECESSARY.

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	12/13/17	90% CONSTRUCTION	OM
1	02/21/18	100% CONSTRUCTION	OM

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CC SEASIDE 003
PSL # 473026
1101 BUENA ST.
SEASIDE, CA 93955

SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

T-3

NOTES:

OWNER(S): WITHIN PUBLIC RIGHT-OF-WAY

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF ANY PARCEL OF LAND, NOR DOES IT IMPLY OR INFER THAT A BOUNDARY SURVEY WAS PERFORMED. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION. PROPERTY LINES AND LINES OF TITLE WERE NEITHER INVESTIGATED NOR SURVEYED AND SHALL BE CONSIDERED APPROXIMATE ONLY. NO PROPERTY MONUMENTS WERE SET.

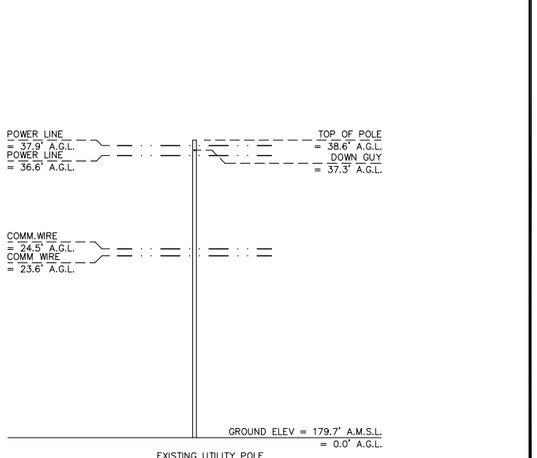
THE UNDERGROUND UTILITIES (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN LOCATED BY FIELD OBSERVATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD RATE MAP FOR COMMUNITY NO. 060203, PANEL NO. 0327G, DATED APRIL 2, 2009 SHOWS THAT THE LOCATION OF THIS SITE FALLS WITHIN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

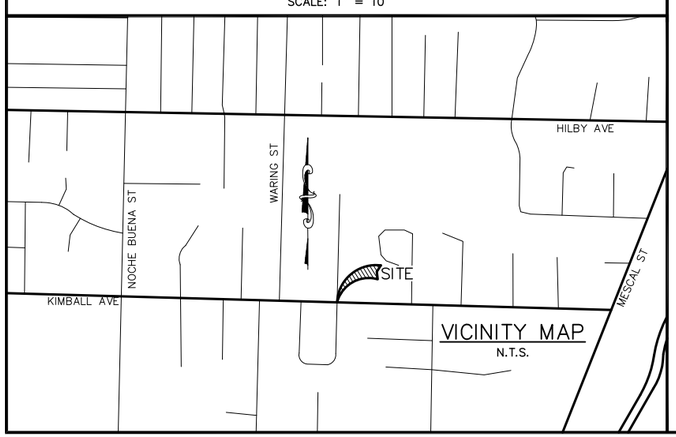
THE LATITUDE AND LONGITUDE AT THE LOCATION AS SHOWN WAS DETERMINED BY GPS OBSERVATIONS.

LAT. 36° 35' 59.01" N. NAD 83
LONG. 121° 50' 01.96" W. NAD 83
ELEV. 179.7' NAVD 88 (BASIS OF DRAWING)

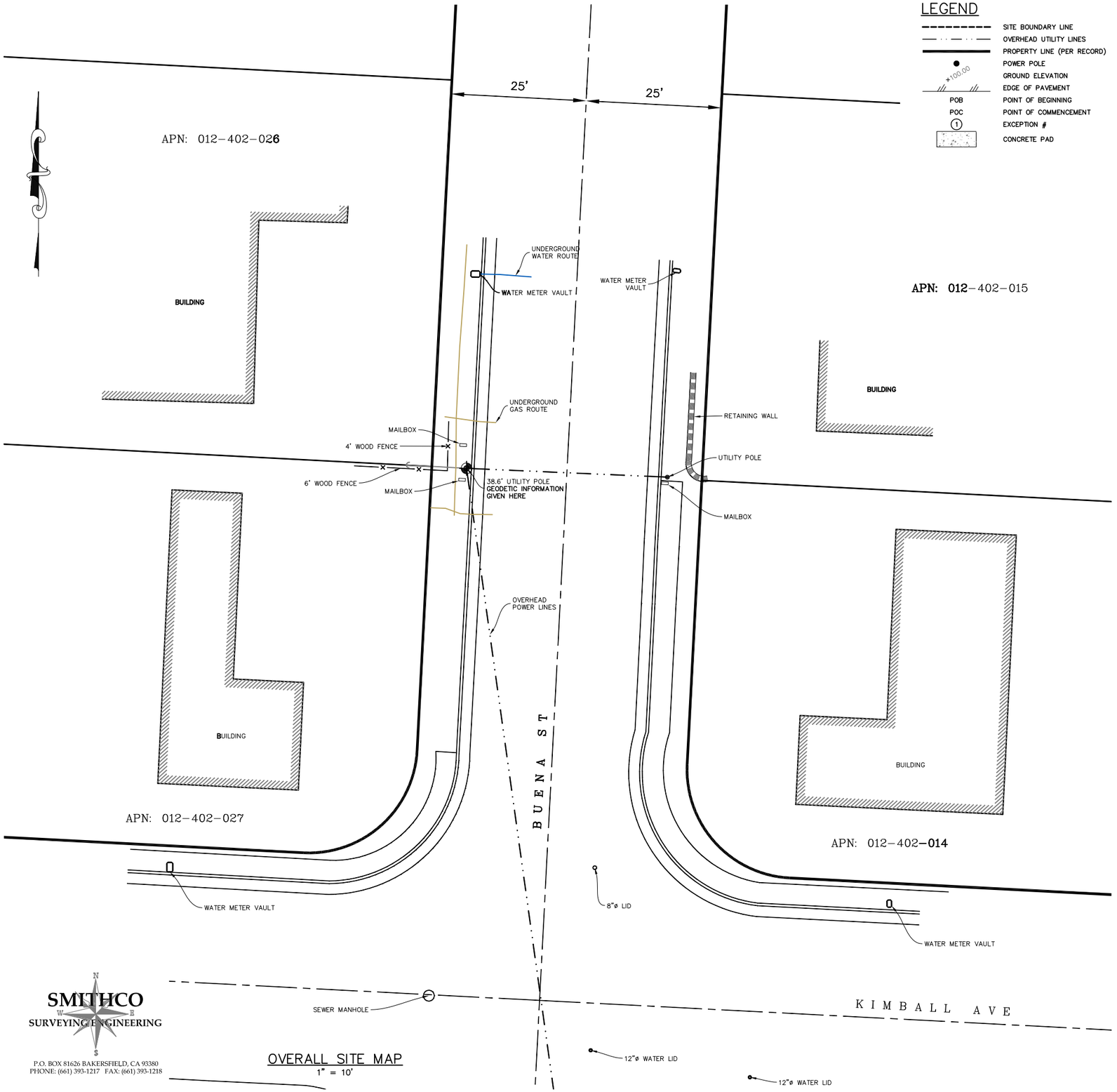
The information shown above meets or exceeds the requirements set forth in FAA order 8260.19D for 1-A accuracy (± 20' horizontally and ± 3' vertically). The horizontal datum (coordinates) are expressed as degrees and decimal degrees thereof. The vertical datum (heights) are expressed in feet and decimals thereof and are determined to the nearest 0.1 foot.



ELEVATION VIEW – LOOKING WEST
SCALE: 1" = 10'



VICINITY MAP
N.T.S.



OVERALL SITE MAP
1" = 10'

LEGEND

- SITE BOUNDARY LINE
- OVERHEAD UTILITY LINES
- PROPERTY LINE (PER RECORD)
- POWER POLE
- +100.00 GROUND ELEVATION
- EDGE OF PAVEMENT
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT
- ① EXCEPTION #
- CONCRETE PAD

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/25/17	PRELIMINARY	EJ
1	11/21/17	REVISION	EJ

SMITHCO JOB NO.: 82-946

SMITHCO
SURVEYING & ENGINEERING
P.O. BOX 81626 BAKERSFIELD, CA 93380
PHONE: (661) 393-1217 FAX: (661) 393-1218

AE DESIGN GROUP, INC.
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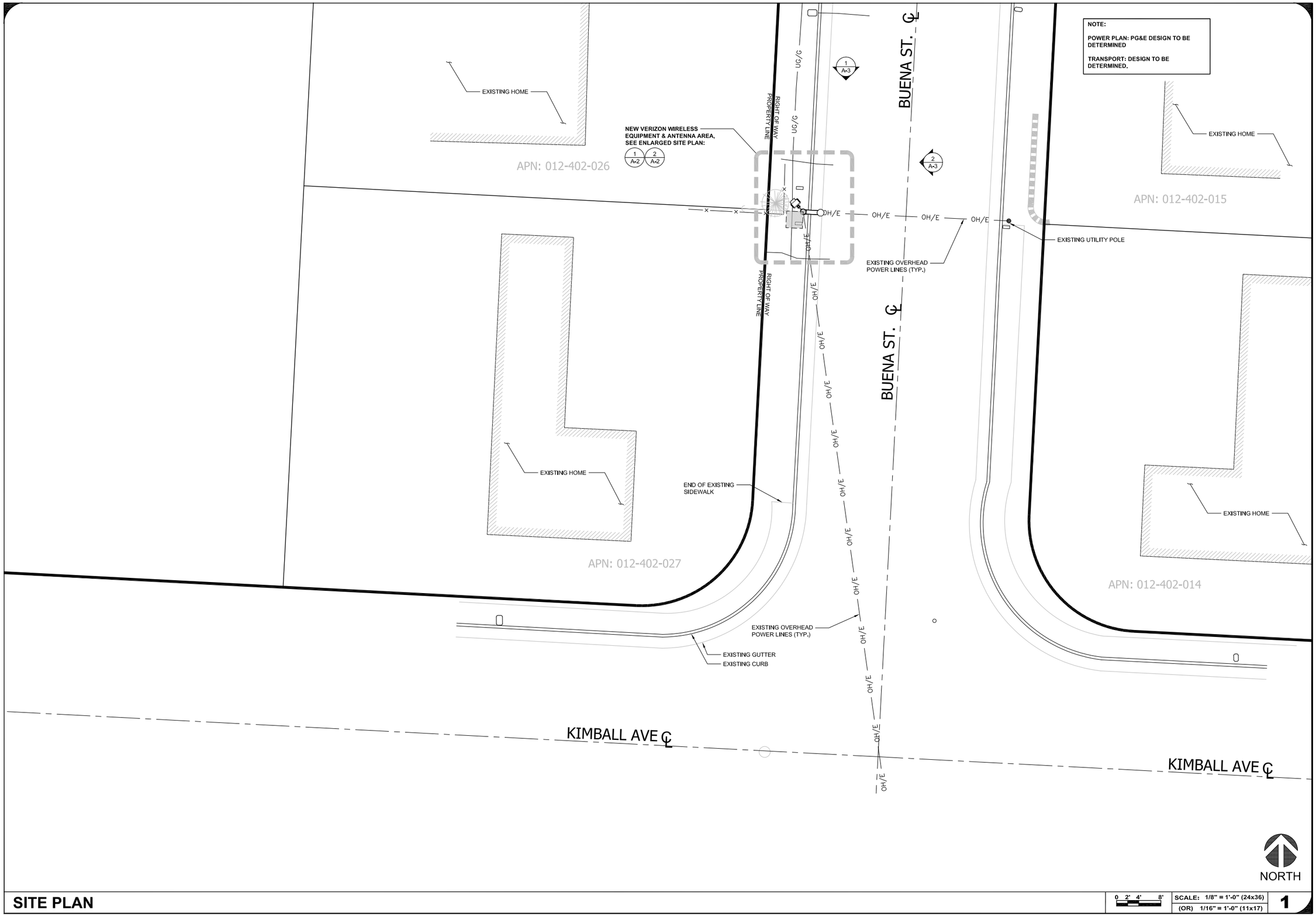
CC SEASIDE 003

1107 BUENA ST
SEASIDE, CA 93955

MONTEREY COUNTY

SHEET TITLE:
SITE SURVEY
FOR EXAMINATION ONLY

C-1



SITE PLAN

0 2' 4' 8'

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17)

1

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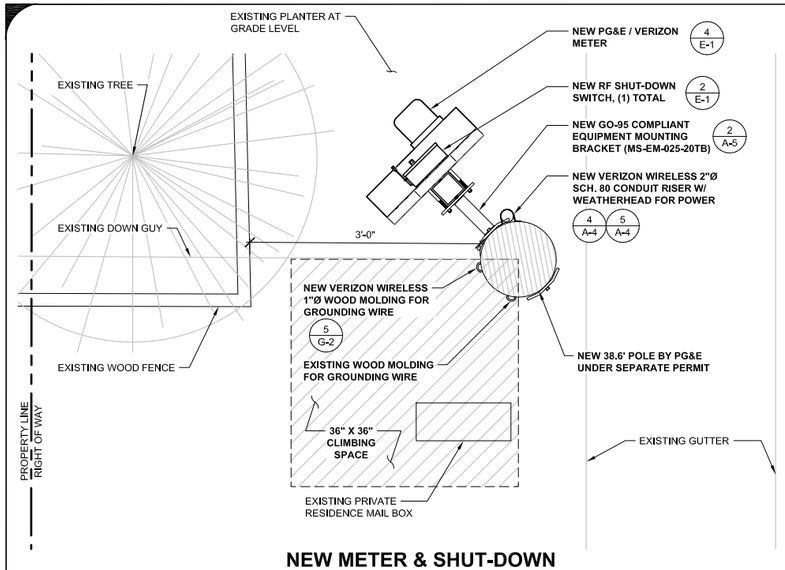
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SHEET TITLE:

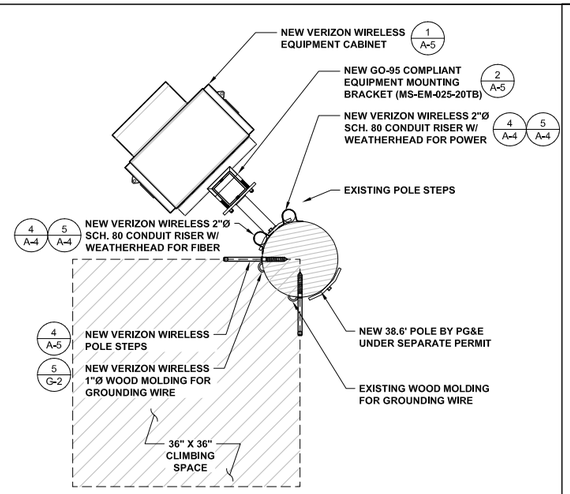
SITE PLAN

A-1

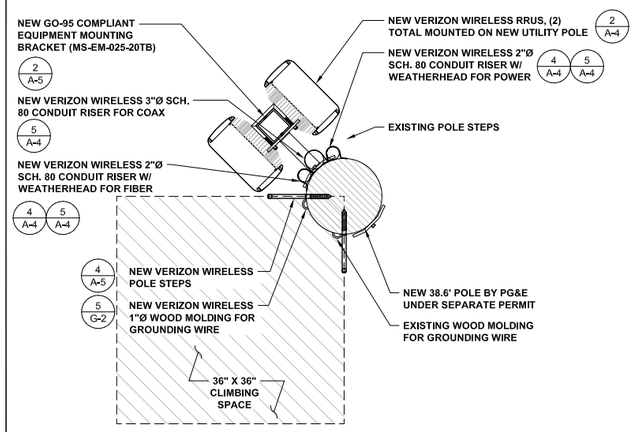


NEW METER & SHUT-DOWN SWITCH AT 7'-0" AGL

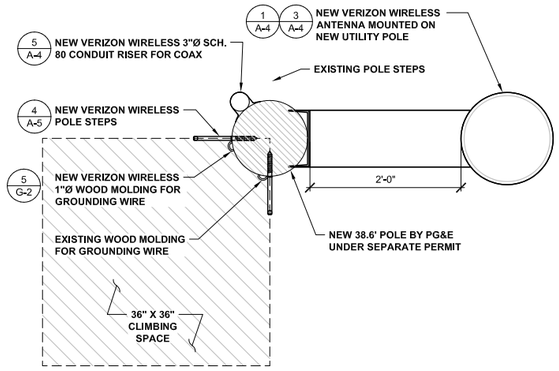
BUENA ST.



NEW CABINET AT 10'-0" AGL



NEW RRUS AT 17'-0" AGL



NEW ANTENNA AT RAD CENTER 29.6' AGL

NORTH

ANTENNA & EQUIPMENT LAYOUT

0 3" 6" 1'

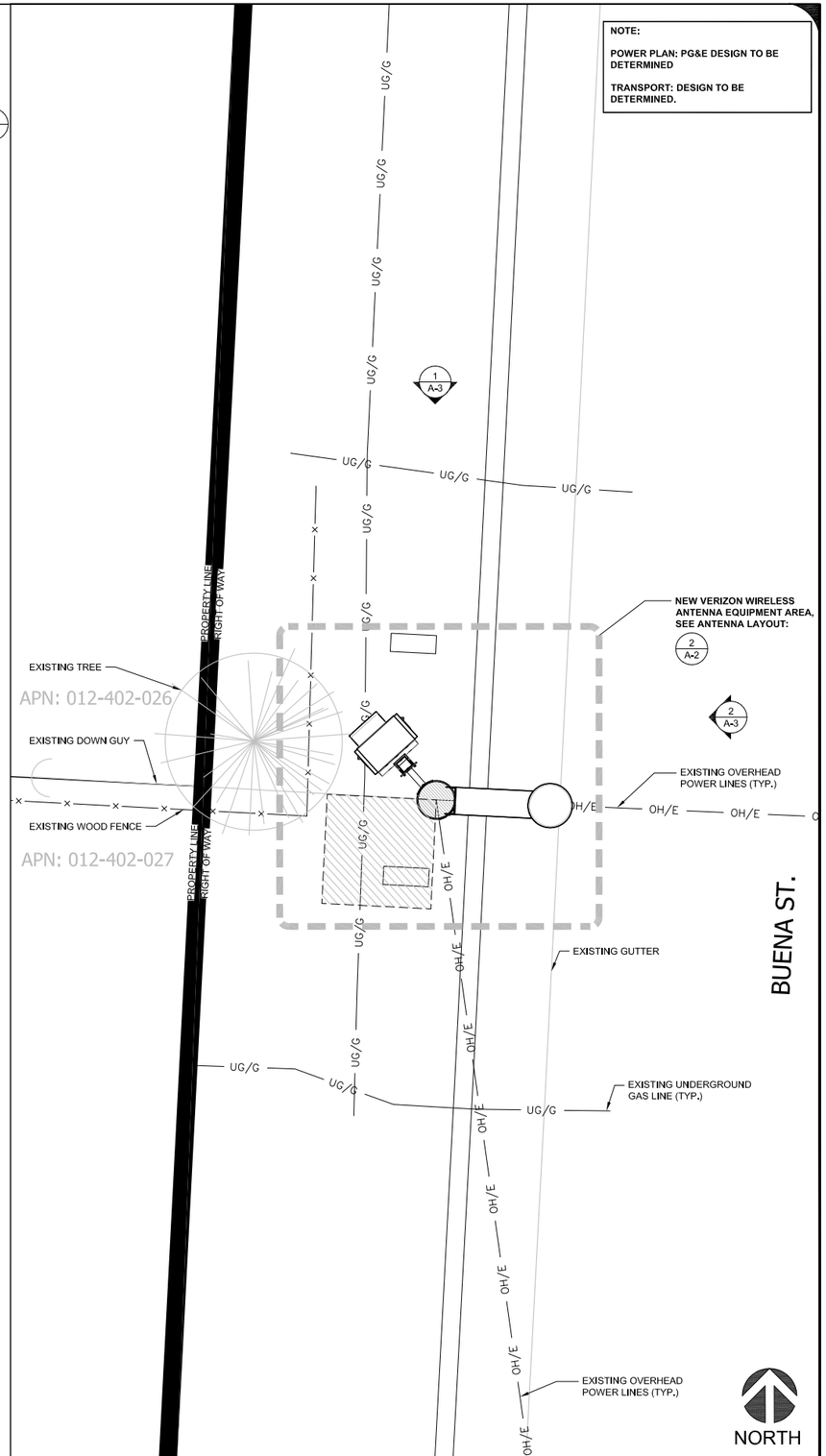
SCALE: 1" = 1'-0" (24x36)
(OR) 1/2" = 1'-0" (11x17)

2

NOTE:

POWER PLAN: PG&E DESIGN TO BE DETERMINED

TRANSPORT: DESIGN TO BE DETERMINED.



NORTH

ENLARGED SITE PLAN

0 6" 1' 2'

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

1

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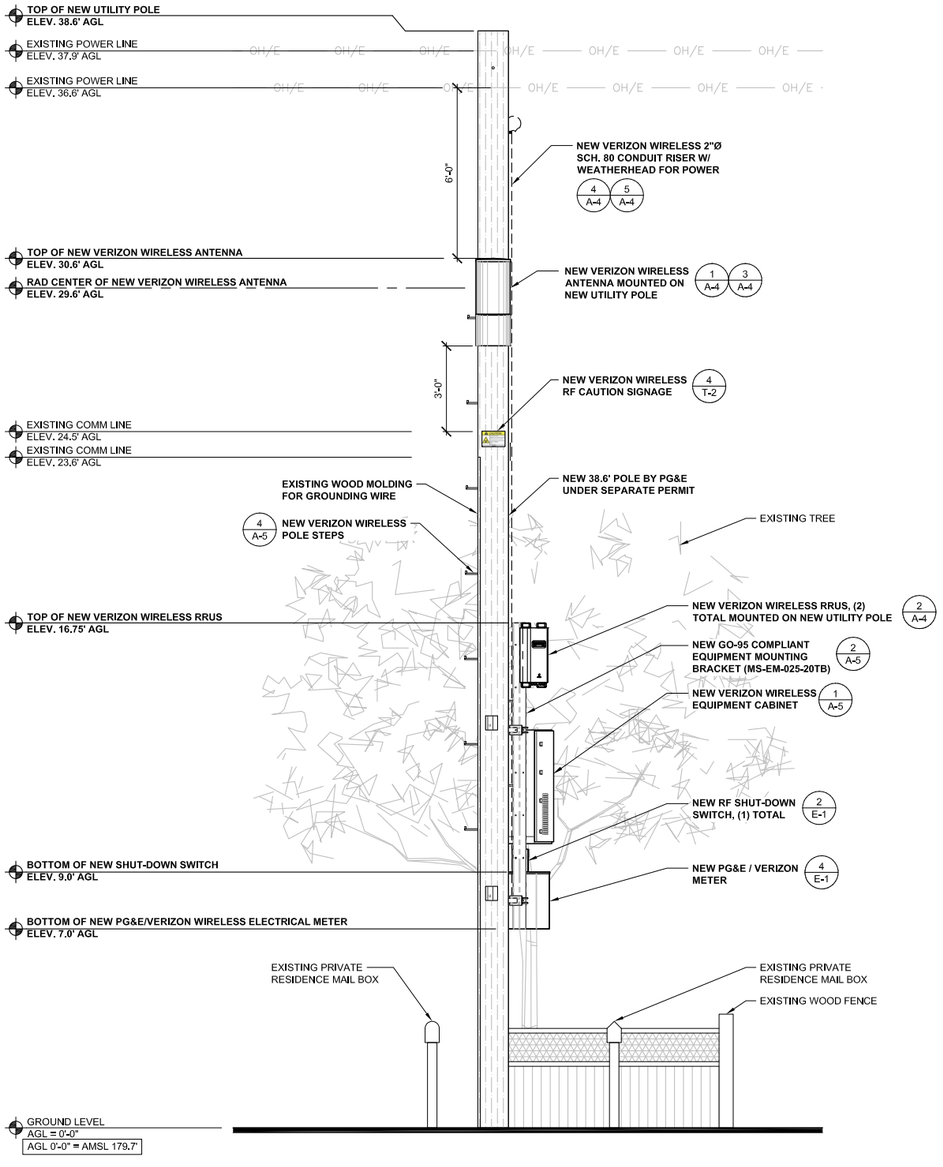
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SHEET TITLE:
ENLARGED SITE PLAN, ANTENNA & EQUIPMENT LAYOUT

A-2

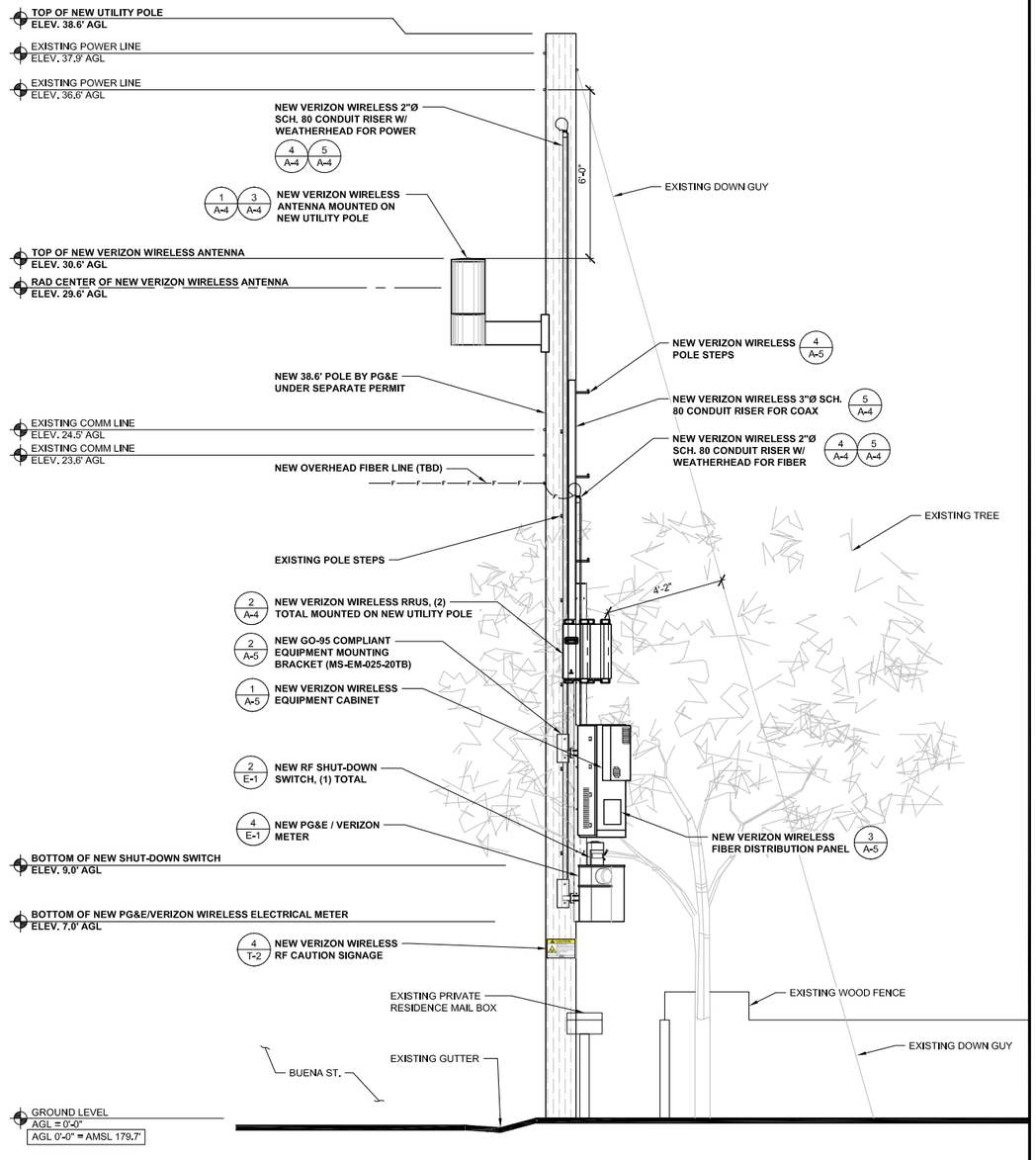


EAST ELEVATION

0 1' 2' 3'

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

2



NORTH ELEVATION

0 1' 2' 3'

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

1

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1	02/21/18	100% CONSTRUCTION	OM

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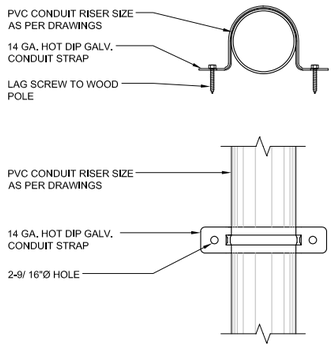
verizon

2785 MITCHELL DRIVE, BLDG 9
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PSL # 473026
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SEASIDE, CA 93955

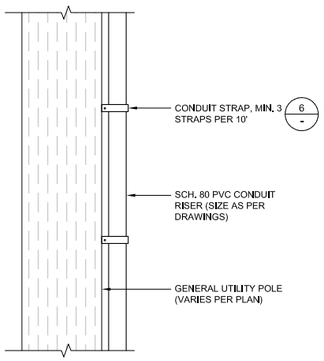
SHEET TITLE:
SOUTH & WEST ELEVATIONS

A-3



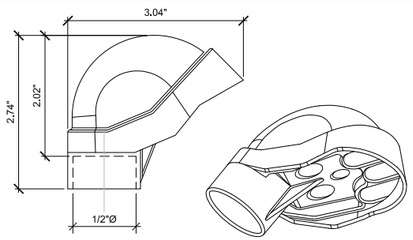
CONDUIT RISER STRAP DETAIL

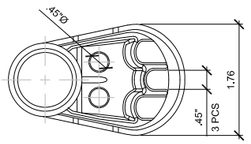
SCALE N.T.S. 6



CONDUIT RISER DETAIL

SCALE N.T.S. 5

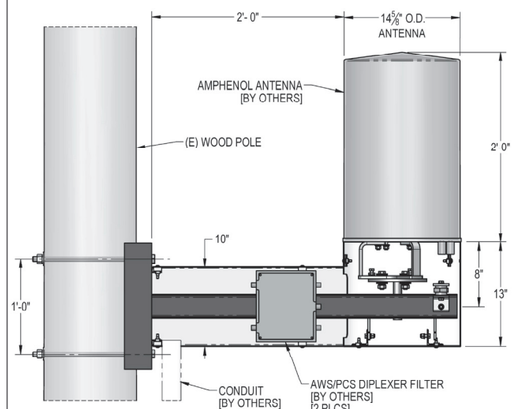




CARLON 1/2" PVC SERVICE ENTRANCE CAP
MODEL: E998D
MATERIAL: NON-METALLIC GRAY PVC

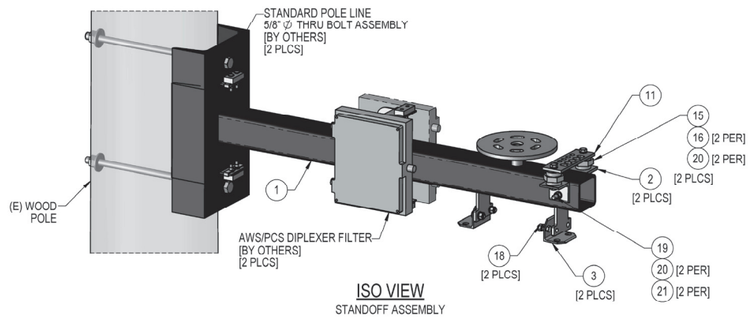
WEATHERHEAD DETAIL

SCALE N.T.S. 4

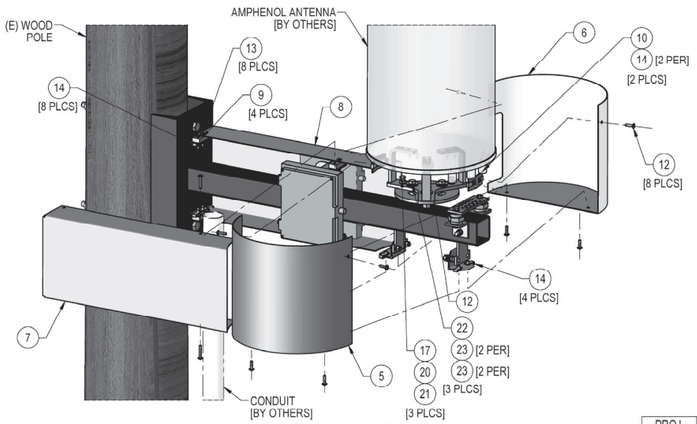


ELEVATION VIEW
FRONT SHROUDS HIDDEN FOR CLARITY

ITEM #	PART #	DESCRIPTION	QTY.	UNIT WT.(lbs)
		STANDOFF ARM ASSEMBLY PARTS		
1	WA-1314	3"x3"x3/16" x 3'-2 1/2" STANDOFF ARM WLDMNT	1	58.3
2	SS-514	2"x2"x1/4" x 2" A36, ANGLE	2	0.5
3	SS-516	2"x2"x1/8" x 3" A36, ANGLE	2	0.4
		ANTENNA / EQUIPMENT MOUNT PARTS		
4	WA-1315	4 5/8"x 9 7/8" O.D. A36, WELDMENT	1	4.7
		SHROUD ASSEMBLY PARTS		
5	WA-715L	14GA.x13 1/16"x14 5/8" I.D. E.G., FORMED PLATE WLDMNT	1	8
6	WA-715R	14GA.x13 1/16"x14 5/8" I.D. E.G., FORMED PLATE WLDMNT	1	8
7	PL-1264	14GA.x17 5/8x2'-0 7/8" E.G., FORMED COVER	1	9.9
8	PL-1267	14GA.x17 5/8x2'-0 15/16" E.G., FORMED COVER	1	9.5
9	PL-1581	1/2" x 1" x 2" A36, PLATE	4	0.3
10	14209-4	11GA. x 1 1/2" x 2 15/16" A36, FORMED PLATE	2	0.1
		HARDWARE		
11	PL-718	1/4"x2"x6" COPPER, BUS BAR	1	0.8
12	70217	1/4"Ø x 1" SS FLGD BUTTON-HD SCKT CAP SCRW	8	0.02
13	70219	1/4"Ø x 1 1/2" SS FLGD BUTTON-HD SCKT CAP SCRW	8	0.003
14	55500	1/4-20 U-STYLE SPEED NUT	16	0.02
15	90060	3/8" STANDOFF INSULATOR (559640)	2	0.1
16	71017	3/8"Ø x 5/8" BOLT, S.S.	4	0.04
17	71110	3/8"Ø x 1" BOLT, S.S.	3	0.05
18	15230	3/8"Ø x 1" A307 FULLY THD'D BOLT/NUT/LW, GALV.	4	0.1
19	80326	3/8"Ø x 6" A36 THRD ROD, GALV.	1	0.19
20	43010	3/8"Ø LOCK WASHER, S.S.	9	0.01
21	51995	3/8"Ø JAM NUT, S.S.	5	0.02
22	70013F	1/2"Ø x 2" FULLY THD'D BOLT/NUT/LW, S.S.	3	0.2
23	44005	1/2"Ø NYLON FLAT WASHER	12	0.01
		TOTAL GALV. WT.		87



ISO VIEW
STANDOFF ASSEMBLY



ISO VIEW
SHROUD ASSEMBLY

PROJ.	QTY.	CHG.	CHK.
17-0355	3	JL	AM

TITLE: AMPHENOL SIDE ARM ANTENNA MOUNT
2' STANDOFF FOR WOOD POLE
WUT PROJ. # STD

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5032 SALEM DALLAS HWY Phone: (503) 587-0101
Salem OR, 97304 westernutilitytelecom.com

CHG	CHK	REVISION RECORD	DATE	REV
JL	AM	NEW PART	15JAN15	-

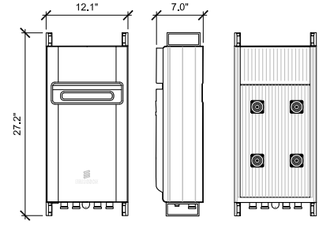
SCALE NONE
PAGE 1 OF 1
DRAWING NO. ID-695

ANTENNA MOUNTING DETAIL (SIDE MOUNT)

SCALE N.T.S. 3

ERICSSON RRUS 32 B30

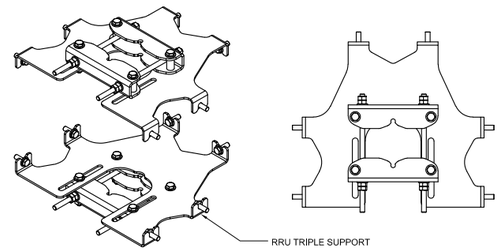
DIMENSIONS:
HEIGHT: 27.2"
WIDTH: 12.1"
DEPTH: 7.0"
WEIGHT: 60 LBS



MAFI 4019-3: TRIPLE RRU SUPPORT KIT

TRIPLE RRU SUPPORT IN STEEL FOR INSTALLATION OF THREE RRUs WITH POSSIBILITY TO ATTACHED A PSU ON THE BACK

PARTS	MATERIAL	QTY
CLAMPS	S355MC FZV	4
THREADED RODS	8.8 FZV	4
BOLTS M10	8.8 FZV	8
FLANGE BOLTS M10	A4	8
BUSHINGS	S355J2H	4
NUTS M10	8.8 FZV	28
WASHERS	FZV	20

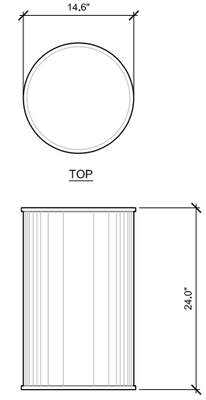


RRUS & TRIPLE MOUNT DETAIL

SCALE N.T.S. 2

AMPHENOL
CUUT360X06

LENGTH: 24.0"
DIAMETER: 14.6"
WEIGHT: 22.1 LBS



ANTENNA SPECIFICATION

SCALE N.T.S. 1

ISSUE STATUS

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0	12/13/17	90% CONSTRUCTION	OM
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SHEET TITLE:
DETAILS

A-4

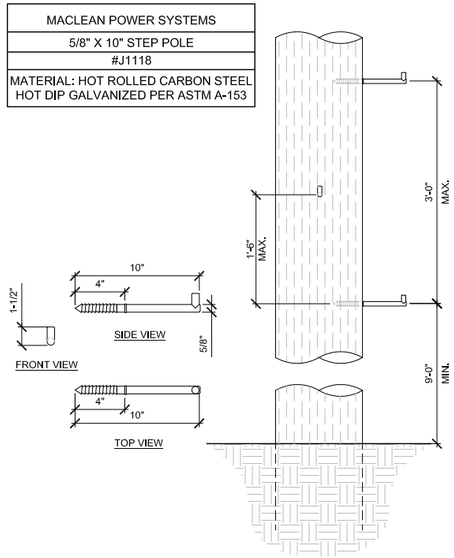
NOT USED — SCALE N.T.S. — 9

NOT USED — SCALE N.T.S. — 8

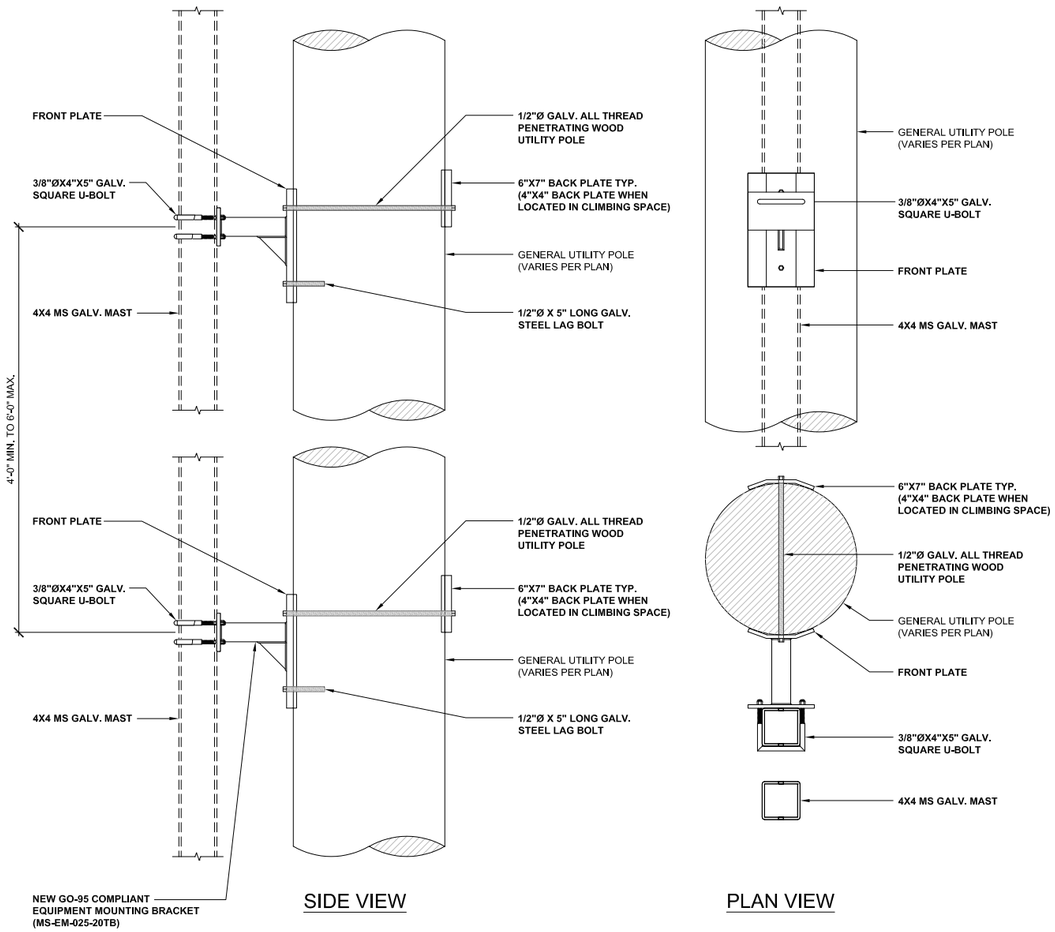
NOT USED — SCALE N.T.S. — 7

NOT USED — SCALE N.T.S. — 6

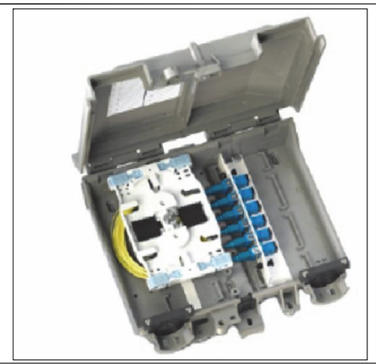
MACLEAN POWER SYSTEMS
5/8" X 10" STEP POLE
#J1118
MATERIAL: HOT ROLLED CARBON STEEL HOT DIP GALVANIZED PER ASTM A-153



POLE STEP DETAIL — SCALE N.T.S. — 4



EQUIPMENT MOUNTING BRACKET DETAIL (MEXSAL MS-EM-025-20TB) — SCALE N.T.S. — 2

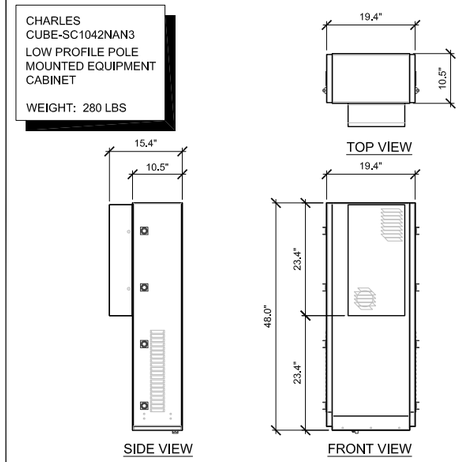


AWM-12		
CAPACITY	6-PACK DUPLEX SC OR LC: 12 FIBERS	AVAILABLE AS A SINGLE OR DUAL DOOR ENCLOSURE
DIMENSION	HEIGHT	8.54"
	WIDTH	10"
	DEPTH	2.88"

FIBER BOX DETAIL — SCALE N.T.S. — 3

CHARLES
CUBE-SC1042NAN3
LOW PROFILE POLE MOUNTED EQUIPMENT CABINET

WEIGHT: 280 LBS



CABINET SPECIFICATIONS — SCALE N.T.S. — 1

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SHEET TITLE:

DETAILS

A-5

NOT USED

SCALE N.T.S. 5

NOTE:
POWER PLAN: PG&E DRAWINGS PENDING

POWER PLAN

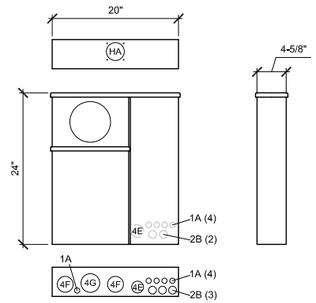
SCALE N.T.S. 3

METER DETAIL

SCALE N.T.S. 4

U214MTBL : METER MAIN LOAD CENTER - OVERHEAD / UNDERGROUND - SURFACE MOUNT

MAIN DISC.	PROV.	AIC RATING	AMPACITY MAX.	AMPACITY CONT.	VOLT-AGE	SERVICE TYPE	# OF JAWS	HUB PROV.	PHASE CONDUCTOR LINE	PHASE CONDUCTOR LOAD	NEUTRAL CONDUCTOR	LOAD CENTER
(1) 100A 2P CB	NONE	10K	100	100	120/240	1Ø 3W	4	AW	14 AWG - 2/0 AWG	MAIN CIRCUIT BREAKER	14 AWG - 1/0 AWG	12/24

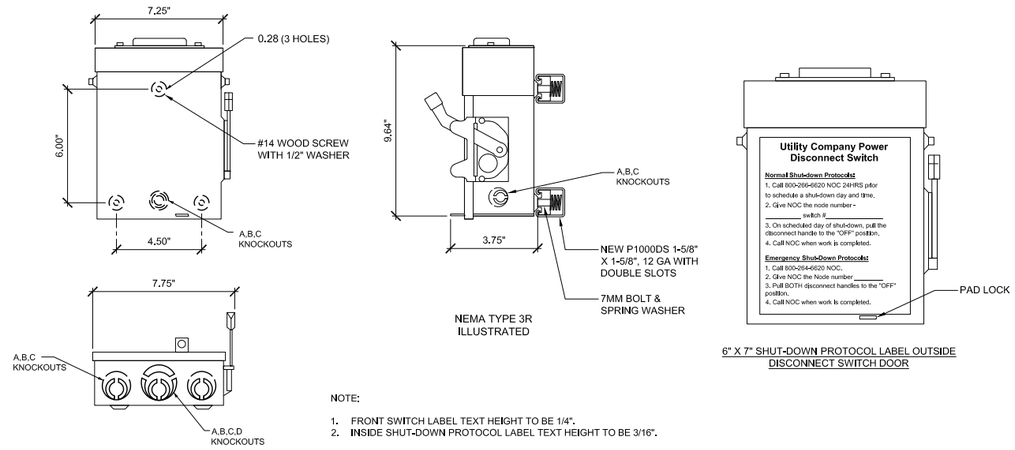


U214MTBL
OVERHEAD / UNDERGROUND - SURFACE MOUNT

KNOCKOUTS - CONDUIT SIZES	
1A	½"
2B	¾" - ½"
4E	1 ½" - 1 ¼" - 1" - ¾"
4F	2" - 1 ½" - 1 ¼" - 1"
4G	2 ½" - 2" - 1 ½" - 1 ¼"
HA	AW HUB

RF SHUT-DOWN SWITCH DETAIL (3-POLE)

SCALE N.T.S. 2



NOTE:

1. FRONT SWITCH LABEL TEXT HEIGHT TO BE 1/4".
2. INSIDE SHUT-DOWN PROTOCOL LABEL TEXT HEIGHT TO BE 3/16".

POWER 1 LINE DIAGRAM

SCALE N.T.S. 1

NOTE:
PENDING PG&E POWER DESIGN

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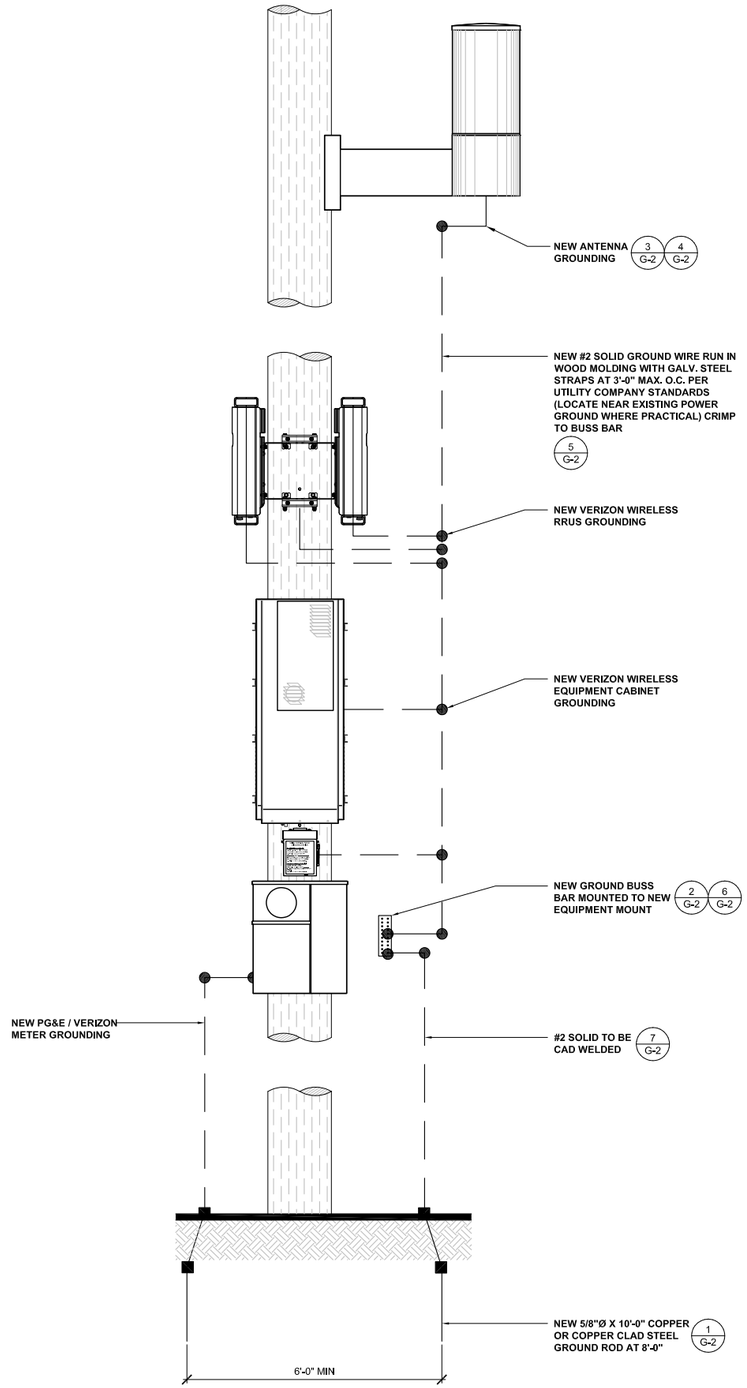
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SHEET TITLE:
POWER 1 LINE DIAGRAM & DETAILS

E-1



EQUIPMENT GROUNDING ELEVATION (TYPICAL)

NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. GROUND BARS:
   A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
   B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
6. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
7. ALL NEW GROUNDING LEAD CONDUCTORS SHALL BE #2 SOLID TINNED BARE COPPER.
8. NEW GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS.
9. NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE CONDITIONS.
10. CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROC OR APPROVED EQUAL, WHEN REQUIRED.
11. ALL NEW GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE VERIZON WIRELESS STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.

GROUNDING NOTES | SCALE N.T.S. | 2

ANTENNA & EQUIPMENT GROUNDING PLAN | SCALE N.T.S. | 1

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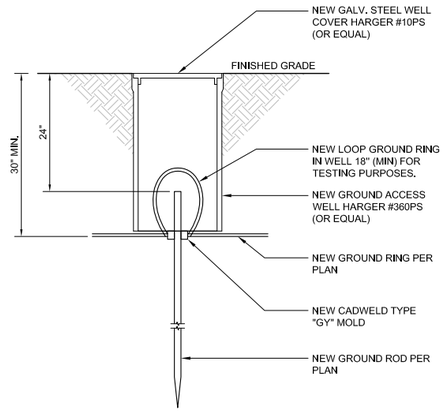
SHEET TITLE:
GROUNDING PLAN & NOTES

G-1

NOT USED

SCALE N.T.S. 9

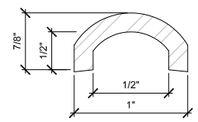
TEST WELL DETAIL



SCALE N.T.S. 8

GROUND WIRE MOLDING DETAIL

DIS-TRAN GROUND WIRE MOLDING
MODEL: DT-GWM-O1
MATERIAL: OAK
LENGTH SECTION: 8'-0" WEIGHT: 1.7 LBS

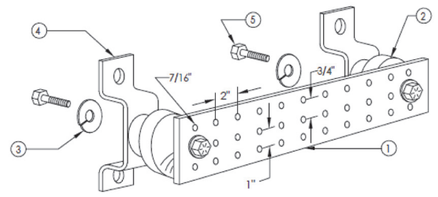


PRESERVATIVE TREATMENT

UNLESS OTHERWISE SPECIFIED, ALL GWM ARE PRESSURE TREATED ACCORDING TO THE AMERICAN WOOD PRESERVERS' ASSOCIATION STANDARDS, WITH PENTACHLOROPHENOL IN HEAVY HYDROCARBON SOLVENT PER AWPA, P-8, P-9 TYPE A.

SCALE N.T.S. 5

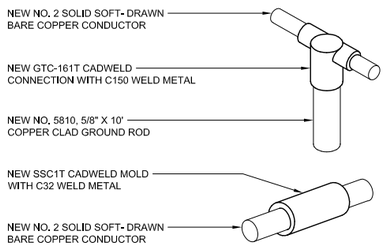
BUS BAR DETAIL

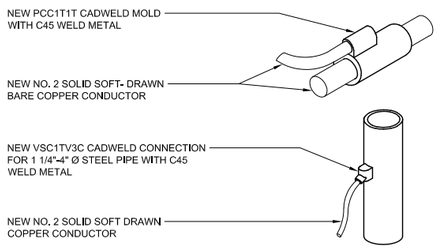


1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL.
3. ⅜" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT NO. 3015-8 OR APPROVED EQUAL.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6065 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL.
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO STRUCTURE AND BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

SCALE N.T.S. 2

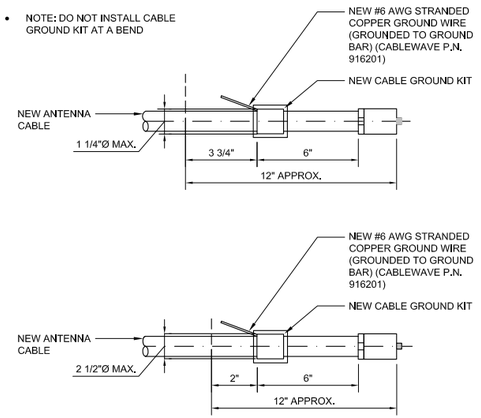
CADWELDS





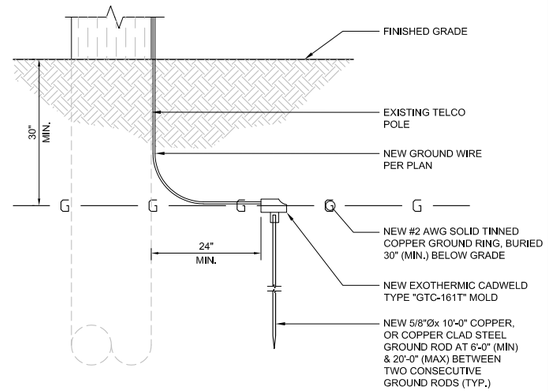
SCALE N.T.S. 7

ANTENNA GROUND KIT



SCALE N.T.S. 4

GROUND ROD DETAIL



GROUND RODS (GROUND ELECTRODES):
GROUND RODS ON THE COMMUNICATION MESSENGER SYSTEM(S) SHALL CONFORM TO EACH OF THE FOLLOWING REQUIREMENTS.

A. GROUND RODS SHALL BE CORROSION-RESISTING METAL RODS OR PIPES (OR EQUIVALENT IN ELECTRICAL PROPERTIES)

B. GROUND RODS SHALL NOT BE LESS THAN 5/8-INCH IN DIAMETER BY 10 FEET (TOTAL) IN LENGTH; THIS MAY INCLUDE TWO (2) FIVE-FOOT JOINED SECTIONS.

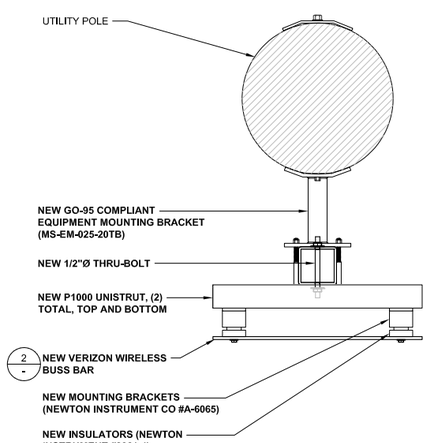
C. GROUND RODS SHALL BE DRIVEN INTO THE GROUND SO THAT ON ONE END OF THE GROUND ROD IS AT MINIMUM DEPTH OF 8 FEET BELOW THE SURFACE OF THE GROUND. THE TOP END OF THE GROUND ROD SHALL NOT BE LESS THAN 1 FOOT BELOW THE SURFACE OF THE GROUND.

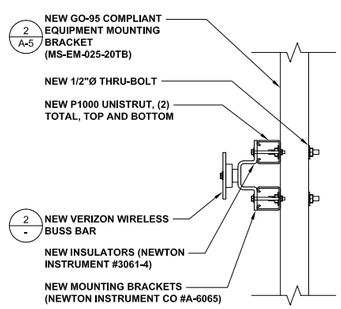
D. POLE-BUTT PLATES OR WRAPPINGS SHALL NOT BE USED EITHER IN LIEU OF THE AFORESAID GROUND RODS OR PIPES, OR AS ELECTRODES SUPPLEMENTARY THERETO.

E. THE DRIVEN GROUND ROD(S), PIPE(S), OR EQUIVALENT SHALL BE LOCATED 24 INCHES OR MORE FROM THE SURFACE OF THE POLE.

SCALE N.T.S. 1

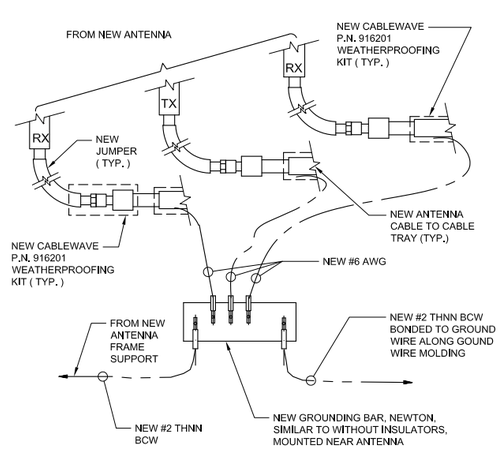
BUS BAR MOUNTING DETAIL





SCALE N.T.S. 6

ANTENNA GROUND DETAIL



SCALE N.T.S. 3

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	12/13/17	90% CONSTRUCTION	OM
1	02/21/18	100% CONSTRUCTION	OM

SAC WIRELESS
SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS

ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

verizon

2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 003
PSL # 473026
1101 BUENA ST.
SEASIDE, CA 93955

SHEET TITLE:
GROUNDING DETAILS

G-2

verizon

CC SEASIDE 001
PSL # 473024

1108 SAN LUCAS ST
SEASIDE, CA 93955

PROJECT TEAM

SITE ACQUISITION
SAC WIRELESS, LLC.
1851 HERITAGE LANE
SUITE 182
SACRAMENTO, CA 95815
CONTACT: KRISTINA DEMOLLI
TELEPHONE: (916) 600-9610
KRISTINA.DEMOLLI@SACW.COM

PLANNING
TEK CONSULTING INC.
PERMIT PROCESSING SERVICES
123 SEACLIFF DR
PISMO BEACH, CA 93449
CONTACT: TRICIA KNIGHT
TELEPHONE: (805) 448-4221
FAX: (805) 888-2807
TEK-CONSULTING.NET

ARCHITECT:
SAC WIRELESS, LLC.
NESTOR POPOWYCH, AIA
5015 SHOREHAM PLACE SUITE 150
SAN DIEGO, CA 92122
CONTACT: OMAR MUNOZ
TELEPHONE: (619) 736-3588
FAX: (760) 931-0908
OMAR.MUNOZ@SACW.COM

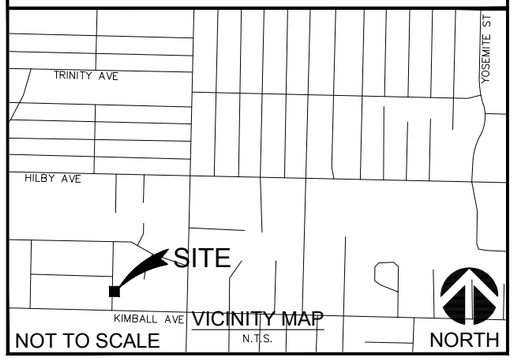
SURVEYOR:
SMITHCO SURVEYING ENGINEERING
P.O. BOX 81626
BAKERSFIELD, CA 93380
CONTACT: GREG SMITH, PLS
TELEPHONE: (661) 393-1217

UTILITY COORDINATOR:
SAC WIRELESS, LLC.
450 DEER CANYON ROAD
BUELLTON, CA 93427
CONTACT: KELLY MCCURNIN
TELEPHONE: (805) 686-4039

VERIZON WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
CONSTRUCTION:		
RADIO:		
MICROWAVE:		
TELCO:		
EQUIPMENT:		
PROJECT ADMINISTRATOR:		
WO ADMINISTRATOR:		

VICINITY MAP



DRIVING DIRECTIONS

FROM: 2785 MITCHELL DR.
WALNUT CREEK, CA 94958

TO: 1108 SAN LUCAS ST
SEASIDE, CA 93955

1. HEAD SOUTH TOWARD SHADELANDS DRIVE
2. TURN RIGHT ONTO SHADELANDS DRIVE
3. TURN LEFT ONTO N WIGET LANE
4. TURN RIGHT ONTO YGNACIO VALLEY ROAD
5. YGNACIO VALLEY ROAD TURNS RIGHT AND BECOMES HILLSIDE AVENUE
6. USE THE LEFT 2 LANES TO TURN LEFT ONTO THE INTERSTATE 680 S RAMP TO SAN JOSE
7. MERGE ONTO THE I-680 S
8. USE THE RIGHT 3 LANES TO MERGE ONTO US-101 S TOWARD LOS ANGELES
9. TAKE EXIT 336 TOWARD MONTEREY/PENINSULA
10. MERGE ONTO CA-156 W
11. MERGE ONTO CA-1 S
12. TAKE EXIT 403 FOR CA-218 TOWARD SEASIDE/DEL REY OAKS
13. KEEP LEFT TO COINTNUE ON CA-218 E/CANYON DEL REY BOULEVARD
14. KEEP RIGHT TO CONTINUE ON CANYON DEL REY BLVD
15. TURN LEFT ONTO FREMONT BOULEVARD
16. TURN RIGHT ONTO KIMBALL AVENUE
17. TURN LEFT ON SAN LUCAS ST
18. DESTINATION WILL BE ON THE RIGHT

PROJECT DESCRIPTION

THIS PROJECT IS A VERIZON WIRELESS UNMANNED TELECOMMUNICATION WIRELESS FACILITY. IT WILL CONSIST OF THE FOLLOWING:

- (1) NEW ANTENNA
- (1) NEW EQUIPMENT CAGE
- (1) NEW FIBER DISTRIBUTION PANEL
- (1) RF SHUT DOWN SWITCHES
- (1) NEW RADIOS W/ PSUs
- (1) NEW DIPLEXER
- (1) NEW PG&E / VERIZON WIRELESS METER PEDESTAL
- NEW POLE STEPS

PROJECT SUMMARY

APPLICANT/LESSEE
verizon
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598
OFFICE: (925) 279-6000

APPLICANT'S REPRESENTATIVE
TEK CONSULTING INC.
PERMIT PROCESSING SERVICES
123 SEACLIFF DR
PISMO BEACH, CA 93449
CONTACT: TRICIA KNIGHT
TELEPHONE: (805) 448-4221
FAX: (805) 888-2807
TEK-CONSULTING.NET

POLE OWNER:
OWNER: JPA/PG&E
CONTACT: PACIFIC GAS & ELECTRIC
BRIAN MORROW
160 COW MEADOW PL
TEMPLETON, CA 93465
PHONE #: (661) 319-9087

PROPERTY INFORMATION:
SITE NAME: CC SEASIDE 001
SITE NUMBER: 473024
SITE ADDRESS: 1108 SAN LUCAS ST
SEASIDE, CA 93955
JURISDICTION: CITY OF SEASIDE

CONSTRUCTION INFORMATION
AREA OF CONSTRUCTION: N/A
OCCUPANCY: U
TYPE OF CONSTRUCTION: V-B
CURRENT ZONING: R.O.W.
HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

ASSESSOR'S PARCEL NUMBER
PUBLIC RIGHT-OF-WAY

GEODETIC COORDINATES
LAT. 36° 36' 00.08" N. NAD 83
LONG. 121° 50' 23.64" W. NAD 83
ELEV. 117.2' NAVD 88 (BASIS OF DRAWING)

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2016 CALIFORNIA ADMINISTRATIVE CODE
- 2016 CALIFORNIA BUILDING CODES
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA FIRE CODE
- 2016 CALIFORNIA ENERGY CODE
- CITY & COUNTY ORDINANCES

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	2
T-2	RF SIGNAGE DETAIL, NOTES, LEGEND & ABBREVIATIONS	2
T-3	GENERAL NOTES & SPECIFICATIONS	2
C-1	SITE SURVEY	0
A-1	SITE PLAN	2
A-2	ENLARGED SITE PLAN, EQUIPMENT & ANTENNA LAYOUT	2
A-3	NORTH & WEST ELEVATIONS	2
A-4	DETAILS	2
A-5	DETAILS	2
E-1	POWER 1 LINE DIAGRAM, DETAILS & NOTES	2
G-1	GROUNDING PLAN & NOTES	2
G-2	GROUNDING DETAILS	2

CONSTRUCTION DRAWINGS

SAC WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
PLANNER:		
CONSTRUCTION:		
LANDLORD:		

811
Know what's below. Call before you dig.

CALL 811
WWW.CALL811.COM
CONTRACTOR TO CALL TO VERIFY UTILITIES AT LEAST TWO WORKING DAYS PRIOR TO DIGGING

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	01/08/19	90% CONSTRUCTION	OM
1	03/06/19	95% CONSTRUCTION	OM
2	04/03/19	100% CONSTRUCTION	OM

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619.736.3766

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verizon
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SHEET TITLE:
TITLE SHEET

T-1



TYPICAL CAUTION SIGN

RF CAUTION SIGNAGE | 1

GENERAL FIRE NOTES: (SFM)

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2013 CFC SECTION 1401.
2. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. [2013 CFC SECTION 505.1]
3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. [2013 CFC SECTION 807-1.2]
4. PORTABLE FIRE EXTINGUISHERS:
   AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. [2013 CFC SECTION 906.1.1 AND SECTION 906.3.1)]

NOTES | 2

- NEW ANTENNA
- EXISTING ANTENNA
- GROUND ROD
- GROUND BUS BAR
- MECHANICAL GRND. CONN.
- CADWELD
- GROUND ACCESS WELL
- ELECTRIC BOX
- TELEPHONE BOX
- LIGHT POLE
- FND. MONUMENT
- SPOT ELEVATION
- SET POINT
- REVISION
- UTILITY POLE
- ANTENNA (CANTENNA)
- SEWER MANHOLE
- SIGNAGE (TRAFFIC)
- PROPERTY/LEASE LINE
- CENTERLINE
- MATCH LINE
- WORK POINT
- GROUND CONDUCTOR
- GRID REFERENCE
- DETAIL REFERENCE
- ELEVATION REFERENCE
- SECTION REFERENCE
- WOOD CONT.
- WOOD BLOCKING
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- GROUT OR PLASTER
- PLYWOOD
- SAND
- STEEL
- EXISTING CHAIN-LINK FENCING
- NEW CHAIN-LINK FENCING
- WROUGHT IRON FENCING
- WOOD FENCING
- E — ELECTRICAL CONDUIT (POWER)
- OH/E — OVERHEAD ELECTRICAL (POWER)
- UG/E — UNDERGROUND ELECTRICAL (POWER)
- T — TELEPHONE CONDUIT
- OH/T — OVERHEAD TELCO
- UG/T — UNDERGROUND TELCO
- E/T — ELECTRICAL / TELCO CONDUIT (POWER & FIBER)
- OH/ET — OVERHEAD POWER & TELCO
- UG/ET — UNDERGROUND POWER & TELCO
- CC — COAXIAL CABLE
- F — FIBER / HYBRID
- POWER / FIBER

LEGEND | 3

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
A.B.	ANCHOR BOLT	FAB.	FABRICATION(OR)	PWR.	POWER (CABINET)
ABV.	ABOVE	F.F.	FINISH FLOOR	QTY.	QUANTITY
ACCA	ANTENNA CABLE COVER ASSEMBLY	F.G.	FINISH GRADE	RAD.(R)	RADIUS
ADDL	ADDITIONAL	FIN.	FINISH(ED)	REF.	REFERENCE
A.F.F.	ABOVE FINISHED FLOOR	FLR.	FLOOR	REINF.	REINFORCEMENT(ING)
A.F.G.	ABOVE FINISHED GRADE	FDN.	FOUNDATION	REQ'D.	REQUIRED
ALUM.	ALUMINUM	F.O.C.	FACE OF CONCRETE	RGS.	RIGID GALVANIZED STEEL
ALT.	ALTERNATE	F.O.M.	FACE OF MASONRY	SCH.	SCHEDULE
ANT.	ANTENNA	F.O.S.	FACE OF STUD	SHT.	SHEET
APPRX.	APPROXIMATE(LY)	F.O.W.	FACE OF WALL	SIM.	SIMILAR
ARCH.	ARCHITECT(URAL)	F.S.	FINISH SURFACE	SPEC.	SPECIFICATION(S)
AWG.	AMERICAN WIRE GAUGE	FT.(')	FOOT(FEET)	SQ.	SQUARE
BLDG.	BUILDING	FTG.	FOOTING	S.S.	STAINLESS STEEL
BLK.	BLOCK	G.	GROWTH (CABINET)	STD.	STANDARD
BLKG.	BLOCKING	GA.	GAUGE	STL.	STEEL
BM.	BEAM	GI.	GALVANIZE(D)	STRUC.	STRUCTURAL
B.N.	BOUNDARY NAILING	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	TEMP.	TEMPORARY
BTCW.	BARE TINNED COPPER WIRE	GLB.(GLU-LAM)	GLUE LAMINATED BEAM	THK.	THICK(NESS)
B.O.F.	BOTTOM OF FOOTING	GPS	GLOBAL POSITIONING SYSTEM	T.N.	TOE NAIL
B/U	BACK-UP CABINET	GRND.	GROUND	T.O.A.	TOP OF ANTENNA
CAB.	CABINET	HDR.	HEADER	T.O.C.	TOP OF CURB
CANT.	CANTILEVER(ED)	HGR.	HANGER	T.O.F.	TOP OF FOUNDATION
C.I.P.	CAST IN PLACE	HT.	HEIGHT	T.O.P.	TOP OF PLATE (PARAPET)
CLG.	CEILING	ICGB.	ISOLATED COPPER GROUND BUS	T.O.S.	TOP OF STEEL
CLR.	CLEAR	IN.(")	INCH(ES)	T.O.W.	TOP OF WALL
COL.	COLUMN	INT.	INTERIOR	TYP.	TYPICAL
CONC.	CONCRETE	LB.(#)	POUND(S)	U/G	UNDER GROUND
CONN.	CONNECTION(OR)	L.B.	LAG BOLTS	U.L.	UNDERWRITERS LABORATORY
CONST.	CONSTRUCTION	L.F.	LINEAR FEET (FOOT)	U.N.O.	UNLESS NOTED OTHERWISE
CONT.	CONTINUOUS	L.	LONG(ITUDINAL)	V.I.F.	VERIFY IN FIELD
d	PENNY (NAILS)	MAS.	MASONRY	W	WIDE(WIDTH)
DBL.	DOUBLE	MAX.	MAXIMUM	W/	WITH
DEPT.	DEPARTMENT	M.B.	MACHINE BOLT	WD.	WOOD
D.F.	DOUGLAS FIR	MECH.	MECHANICAL	W.P.	WEATHERPROOF
DIA.	DIAMETER	MFR.	MANUFACTURER	WT.	WEIGHT
DIAG.	DIAGONAL	MIN.	MINIMUM	℄	CENTERLINE
DIM.	DIMENSION	MISC.	MISCELLANEOUS	₱	PLATE
DWG.	DRAWING(S)	MTL.	METAL		
DWL.	DOWEL(S)	(N)	NEW		
EA.	EACH	NO.(#)	NUMBER		
EL.	ELEVATION	N.T.S.	NOT TO SCALE		
ELEC.	ELECTRICAL	O.C.	ON CENTER		
ELEV.	ELEVATOR	OPNG.	OPENING		
EMT.	ELECTRICAL METALLIC TUBING	P/C	PRECAST CONCRETE		
E.N.	EDGE NAIL	PCS	PERSONAL COMMUNICATION SERVICES		
ENG.	ENGINEER	PLY.	PLYWOOD		
EQ.	EQUAL	PPC	POWER PROTECTION CABINET		
EXP.	EXPANSION	PRC	PRIMARY RADIO CABINET		
EXST.(E)	EXISTING	P.S.F.	POUNDS PER SQUARE FOOT		
EXT.	EXTERIOR	P.S.I.	POUNDS PER SQUARE INCH		

ABBREVIATIONS | 4

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	01/08/19	90% CONSTRUCTION	OM
1	03/06/19	95% CONSTRUCTION	OM
2	04/03/19	100% CONSTRUCTION	OM

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verizon

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WALNUT CREEK, CA 94598

CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SHEET TITLE:
NOTES, LEGEND & ABBREVIATIONS

T-2

GENERAL

1. THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS U [2016 CBC, TITLE 24, PART 2, VOLUME 1, SECTION 312.].
2. THIS FACILITY IS EXEMPT FROM ACCESSIBILITY REQUIREMENTS PER 2016 CBC SECTION 11B-203.5 THIS FACILITY IS NON-OCCUPIABLE SPACE & ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BIDS, & PROCEEDING WITH ANY WORK.
4. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER & SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT.
5. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, & TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
7. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, & BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, & TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
10. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. & ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, & 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
11. THE CONTRACTOR & SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL & STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
12. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
13. THE CONTRACTOR SHALL SUPERVISE & COORDINATE ALL WORK, USING HIS/HER PROFESSIONAL KNOWLEDGE & SKILLS. HE/SHE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCING & COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN & PAY FOR ALL PERMITS, LICENSES & INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT & MAKE FINAL PAYMENT OF SAID DOCUMENT.
15. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
17. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
18. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL & PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
19. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
20. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
21. ALL GENERAL NOTES & STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
22. ALL DEBRIS & REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
23. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING & CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
24. ALL SYMBOLS & ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

CONCRETE

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS OTHERWISE NOTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" & ALL HOOKS SHALL BE STANDARD U.N.O.
2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.
3. BARS NOTED "CONT.", TYPICAL WALL REINFORCING, & VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL 40 BAR DIAMETERS LAP, OR 24" WHICHEVER IS GREATER.
4. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICE AT OTHER LOCATIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
5. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED.
6. ALL REINFORCING, ANCHOR BOLTS & OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
7. #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
8. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE:

BELOW GRADE (UNFORMED)	3"	CLEAR
BELOW GRADE (FORMED)	2"	CLEAR
WALLS	1"	CLEAR
COLUMNS	1 1/2"	CLEAR
BEAMS & GIRDERS	1 1/2"	CLEAR
STRUCTURAL SLAB (ABOVE GRADE)	3/4"	CLEAR

CONCRETE (GENERAL)

1. STRUCTURAL FILL & BACKFILL SHOULD CONSIST OF A NON-EXPANSIVE GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER & PLACED IN UNIFORM 6" LIFTS.
2. STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
3. STRUCTURAL FILL UNDERNEATH FOUNDATIONS & SLABS SHALL BE COMPACTED WITH A SMOOTH VIBRATORY COMPACTION DEVICE PRIOR TO CONCRETE PLACEMENT.
4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CURRENT ACI 318.
5. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI. UNLESS OTHERWISE SPECIFIED. WATER CEMENTITIOUS MATERIAL/RATIO & AIR CONTENT SHALL COMPLY WITH ACI 318 SECTION 19.3.
6. CEMENT FOR CONCRETE OR MASONRY MORTAR SHALL BE TYPE V "PORTLAND CEMENT" & CONFORM TO ASTM C-150 STANDARDS. UNLESS OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT OR IN THE DRAWINGS.
7. AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C-33 STANDARDS.
8. CONCRETE SHALL BE DEPOSITED IN ACCORDANCE WITH 318 SECTION 26.5.2 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
9. COLD WEATHER & HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 19.3 & SECTIONS 26.5.4 & 26.5.5.
10. AFTER PLACEMENT, THE CONCRETE SHALL BE COVERED WITH A PLASTIC VAPOR BARRIER FOR A 4 TO 7 DAY INITIAL CURING PERIOD.
11. A MINIMUM OF THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN. ONE SHALL BE TESTED AT 7 DAYS, ONE AT 28 DAYS, & ONE HOLD CYLINDER. UNLESS OTHERWISE SPECIFIED BY GOVERNING AGENCY.
12. FLOOR SLABS SHALL CONFORM TO ASTM C-38 STANDARDS & SHALL BE 3 1/2 INCHES MINIMUM THICK - SEE FOUNDATION PLANS FOR REINFORCEMENT, BASE, UNDERLAYMENT, VAPOR BARRIER OR OTHER SPECIFIC REQUIREMENTS.
13. FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS. TOLERANCE: 1/8 INCH IN 10 FEET.
14. TOP OF CONCRETE SLAB TO BE 6" MINIMUM ABOVE FINISH GRADE. UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS
15. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
16. ALL EXTERIOR CONCRETE WALLS, PORCHES & PLATFORMS ON SITE TO HAVE A ROCK SALT FINISH. (U.O.N.)
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE PLACEMENT OF ALL ROUGH HARDWARE & ALL ITEMS OF OTHER TRADES REQUIRED TO BE EMBEDDED IN CONCRETE WORK.

METALS

STRUCTURAL FRAMING SYSTEM & EQUIPMENT

1. CABLE LADDERS AT INTERIOR SPACES WHERE INDICATED SHALL BE 1-1/2" SOLID BAR STRINGERS TYPE
2. ALL UNISTRUT SHALL BE P1000 (1-5/8").
3. MICROFLECT SHALL BE B 1 1 1 8 (U.N.O.) TO MATCH CABLE TRAY.
4. CABLE RUNS ON ROOF TOP & OUTDOOR APPLICATIONS, SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. ALL ANTENNA SPECS. PER RF DATA SHEET.

STRUCTURAL METAL

1. ALL STRUCTURAL STEEL SHALL COMPLY WITH MOST RECENT ASTM A-36 STANDARDS.
2. ALL CONNECTIONS & FABRICATIONS SHALL COMPLY WITH MOST RECENT A.I.S.C. SPECIFICATIONS.
3. ALL WELDING SHALL BE PERFORMED BY OPERATORS WHO HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN MOST RECENT "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY.
4. USE ALL MEANS NECESSARY TO PROTECT STRUCTURAL STEEL BEFORE, DURING & AFTER INSTALLATION & TO PROTECT THE INSTALLED WORK & MATERIALS OF ALL OTHER TRADES.
5. IN THE EVENT OF DAMAGE IMMEDIATELY MAKE ALL REPAIRS & REPLACEMENTS NECESSARY TO THE APPROVAL OF & AT NO ADDITIONAL COST TO THE OWNER.
6. HIGH-STRENGTH BOLTS SHALL COMPLY WITH ASTM A-325 N. BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE. OTHER MACHINE BOLTS & ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A-307
7. WELDS SHALL BE MADE WITH ASTM-233, E-70 SERIES ELECTRODES FOR STEEL TO STEEL CONNECTIONS. WELDING OF REINFORCING BARS SHALL BE DONE WITH ELECTRODES AS APPROVED BY A CERTIFIED TESTING LABORATORY.
8. ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAP, HANGER & OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO. OR APPROVED EQUIVALENT.
9. ALL EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZING AFTER FABRICATION.
10. ALL WELDING DONE AFTER GALVANIZING SHALL BE PROTECTED WITH TWO (2) COATS OF "GALVANIZED" OR "GALVALOY"

ELECTRICAL

1. REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION
2. ALL ELECTRIC WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE. (REFER TO THE COVER SHEET)
3. ALL INTERIOR SEISMIC UNISTRUT SHALL BE GROUNDED WITH #6 STRANDED COPPER WITH GREEN JACKET. ALL CONNECTIONS TO BE DOUBLE LUG.
4. BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION & DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT & IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REROUTING OF EXISTING LINES IS NECESSARY.

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	01/08/19	90% CONSTRUCTION	OM
1	03/06/19	95% CONSTRUCTION	OM
2	04/03/19	100% CONSTRUCTION	OM

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619.736.3766

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CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

T-3

NOTES:

OWNER(S): WITHIN PUBLIC RIGHT-OF-WAY

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF ANY PARCEL OF LAND, NOR DOES IT IMPLY OR INFER THAT A BOUNDARY SURVEY WAS PERFORMED. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION. PROPERTY LINES AND LINES OF TITLE WERE NEITHER INVESTIGATED NOR SURVEYED AND SHALL BE CONSIDERED APPROXIMATE ONLY. NO PROPERTY MONUMENTS WERE SET.

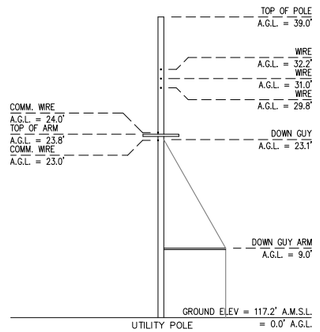
THE UNDERGROUND UTILITIES (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN LOCATED BY FIELD OBSERVATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD RATE MAP FOR COMMUNITY NO. 060203, PANEL NO. 0327G, DATED APRIL 2, 2009 SHOWS THAT THE LOCATION OF THIS SITE FALLS WITHIN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

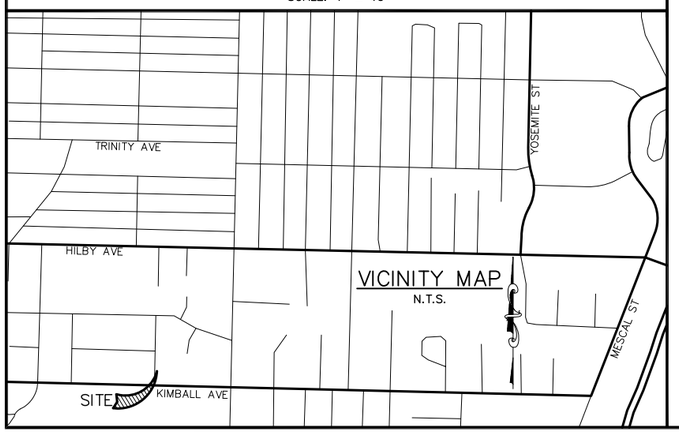
THE LATITUDE AND LONGITUDE AT THE LOCATION AS SHOWN WAS DETERMINED BY GPS OBSERVATIONS.

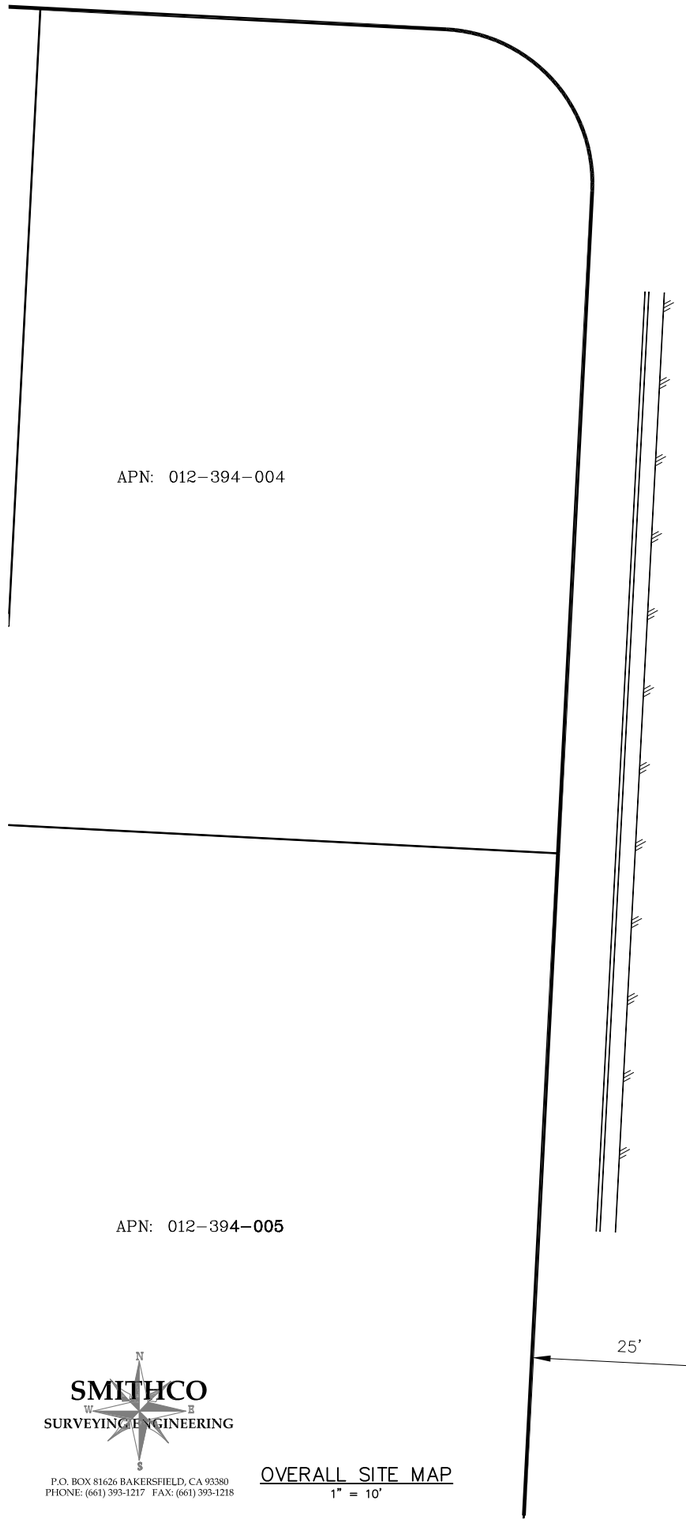
LAT. 36° 36' 00.08" N. NAD 83
LONG. 121° 50' 23.64" W. NAD 83
ELEV. 117.2' NAVD 88 (BASIS OF DRAWING)

The information shown above meets or exceeds the requirements set forth in FAA order 8260.19D for 1-A accuracy (± 20' horizontally and ± 3' vertically). The horizontal datum (coordinates) are expressed as degrees and decimal degrees thereof. The vertical datum (heights) are expressed in feet and decimals thereof and are determined to the nearest 0.1 foot.



ELEVATION VIEW – LOOKING NORTH
SCALE: 1" = 10'







SMITHCO
SURVEYING & ENGINEERING
P.O. BOX 81626 BAKERSFIELD, CA 93380
PHONE: (661) 393-1217 FAX: (661) 393-1218

OVERALL SITE MAP
1" = 10'

LEGEND

	SITE BOUNDARY LINE
	OVERHEAD UTILITY LINES
	PROPERTY LINE (PER RECORD)
	UNDERGROUND GAS ROUTE
UG/W	UNDERGROUND WATER ROUTE
	POWER POLE
+100.00	GROUND ELEVATION
	EDGE OF PAVEMENT
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
1	EXCEPTION #
	CONCRETE PAD

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	01/07/19	PRELIMINARY	EJ

SMITHCO JOB NO.: 82-1186

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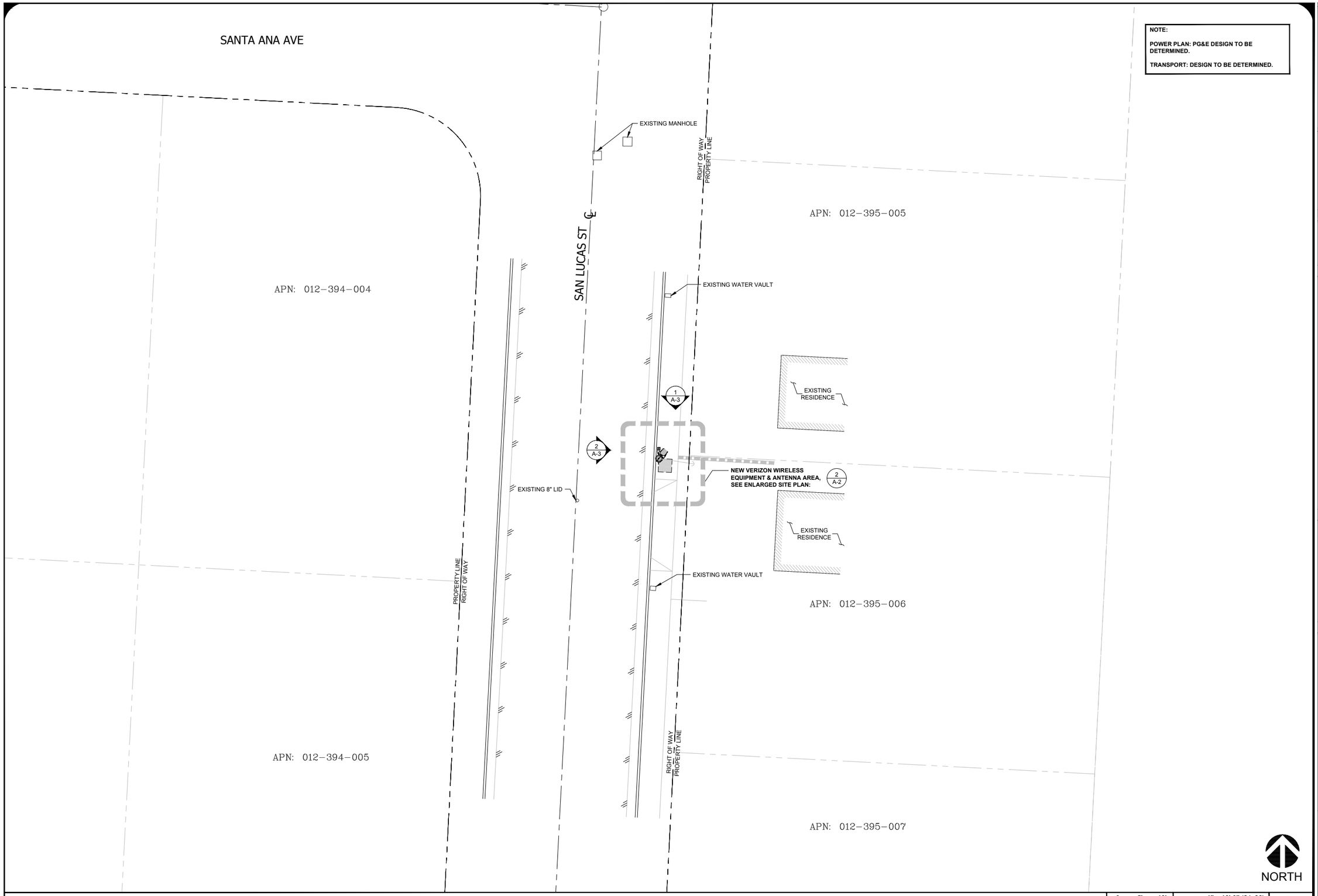
473024
CC SEASIDE 001

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SEASIDE, CA 93955

MONTEREY COUNTY

SHEET TITLE:
SITE SURVEY
FOR EXAMINATION ONLY

C-1



NOTE:

POWER PLAN: PG&E DESIGN TO BE DETERMINED.

TRANSPORT: DESIGN TO BE DETERMINED.

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0	01/08/19	90% CONSTRUCTION	OM
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SEASIDE, CA 93955

SHEET TITLE:

SITE PLAN

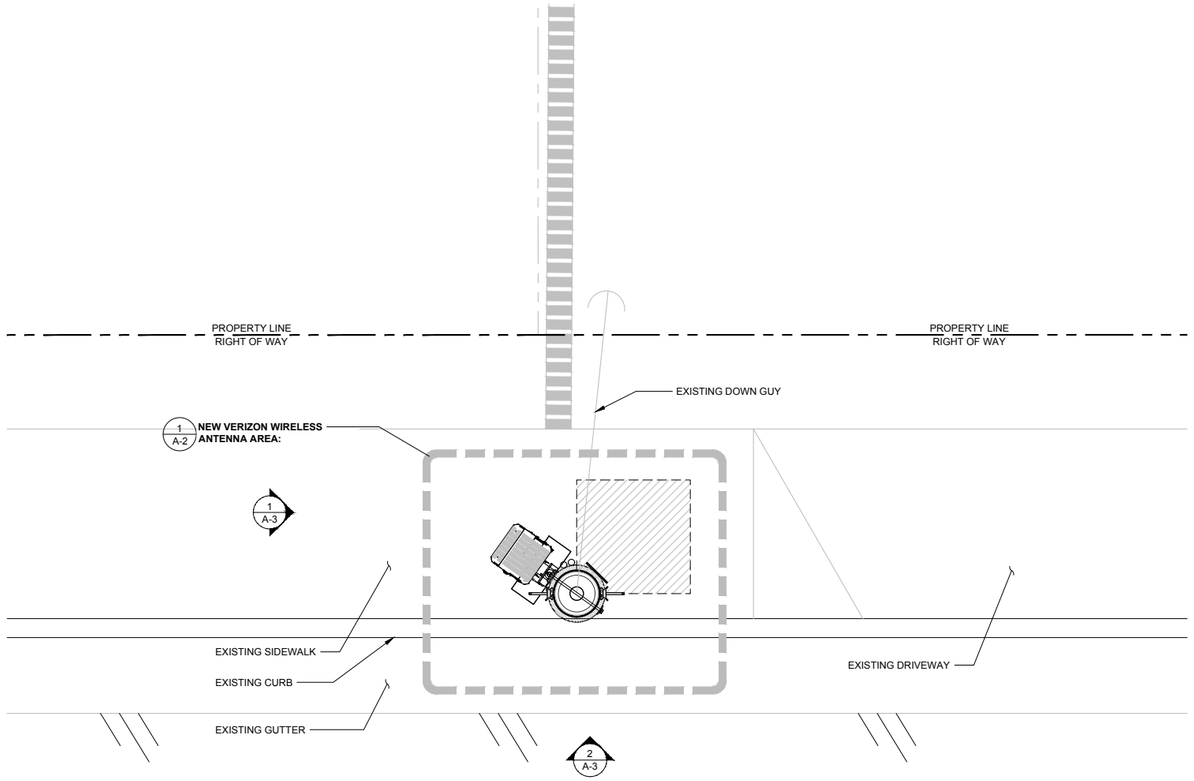
A-1

SITE PLAN

0 5' 10'

SCALE: 1" = 10'-0" (24x36)
(OR) 1/2" = 10'-0" (11x17)

1

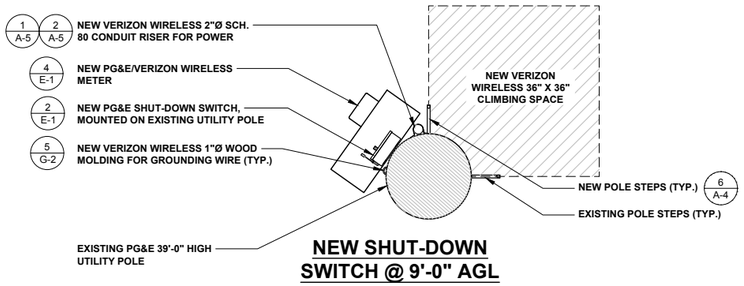


SAN LUCAS ST

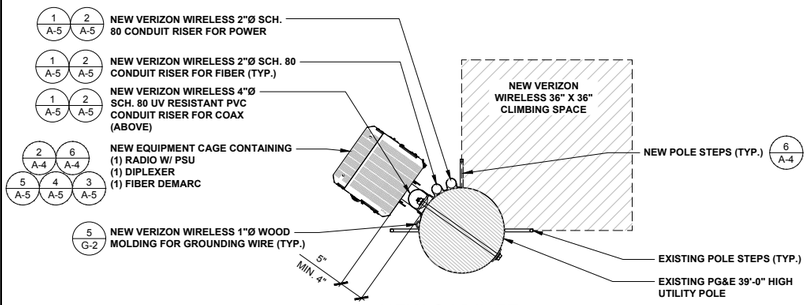
NORTH

ENLARGED SITE PLAN

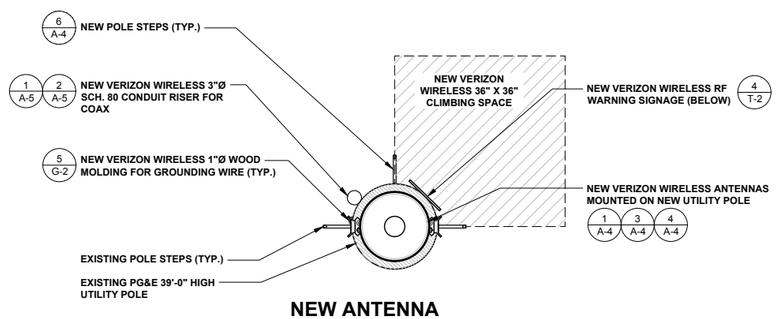
0 6" 1' 2' | SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) | 2



NEW SHUT-DOWN SWITCH @ 9'-0" AGL



NEW CABINET AT 10'-0" AGL



NEW ANTENNA

NORTH

ANTENNA & EQUIPMENT LAYOUT

0 3" 6" 1' | SCALE: 3/4 = 1'-0" (24x36) (OR) 3/8" = 1'-0" (11x17) | 1

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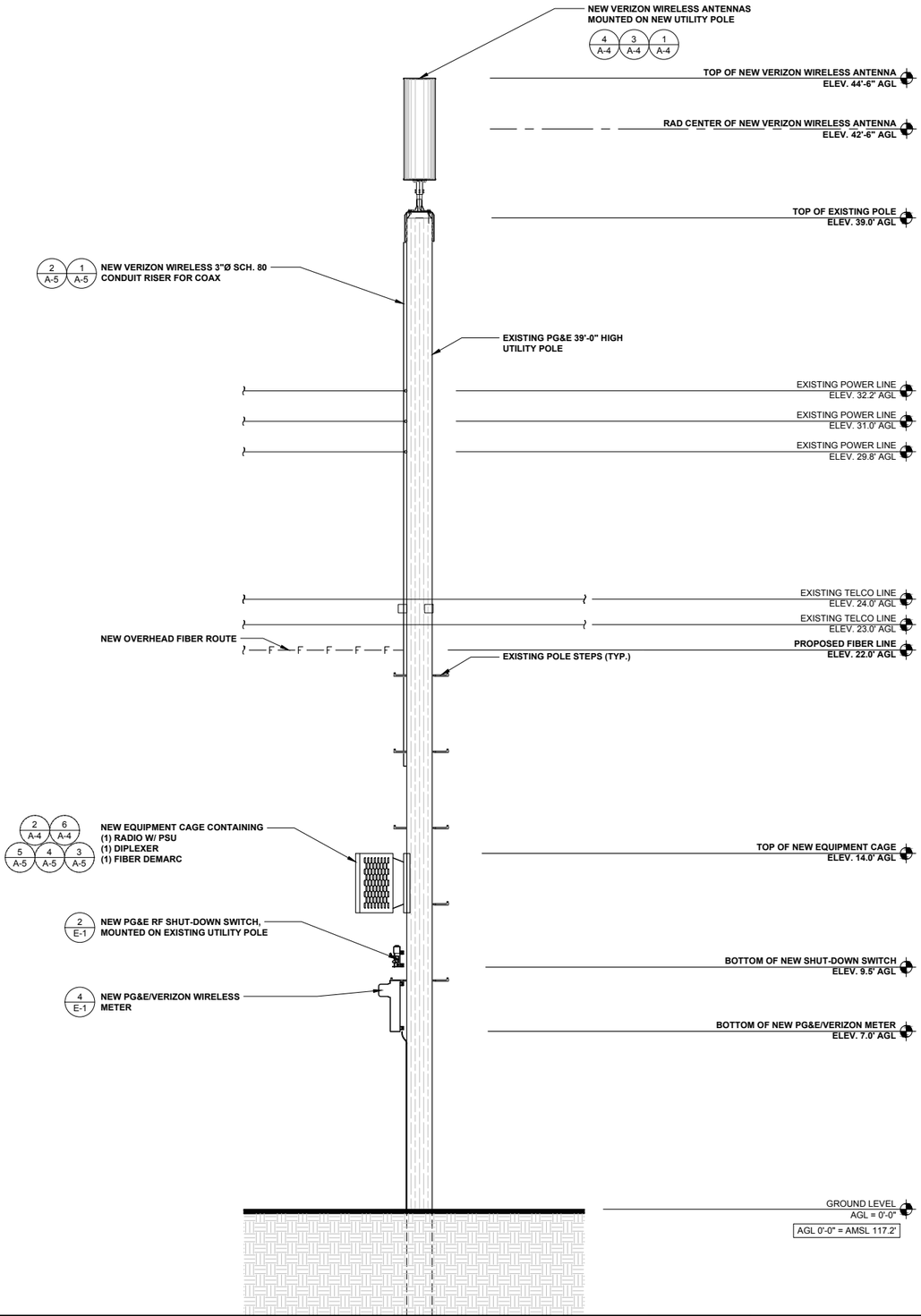
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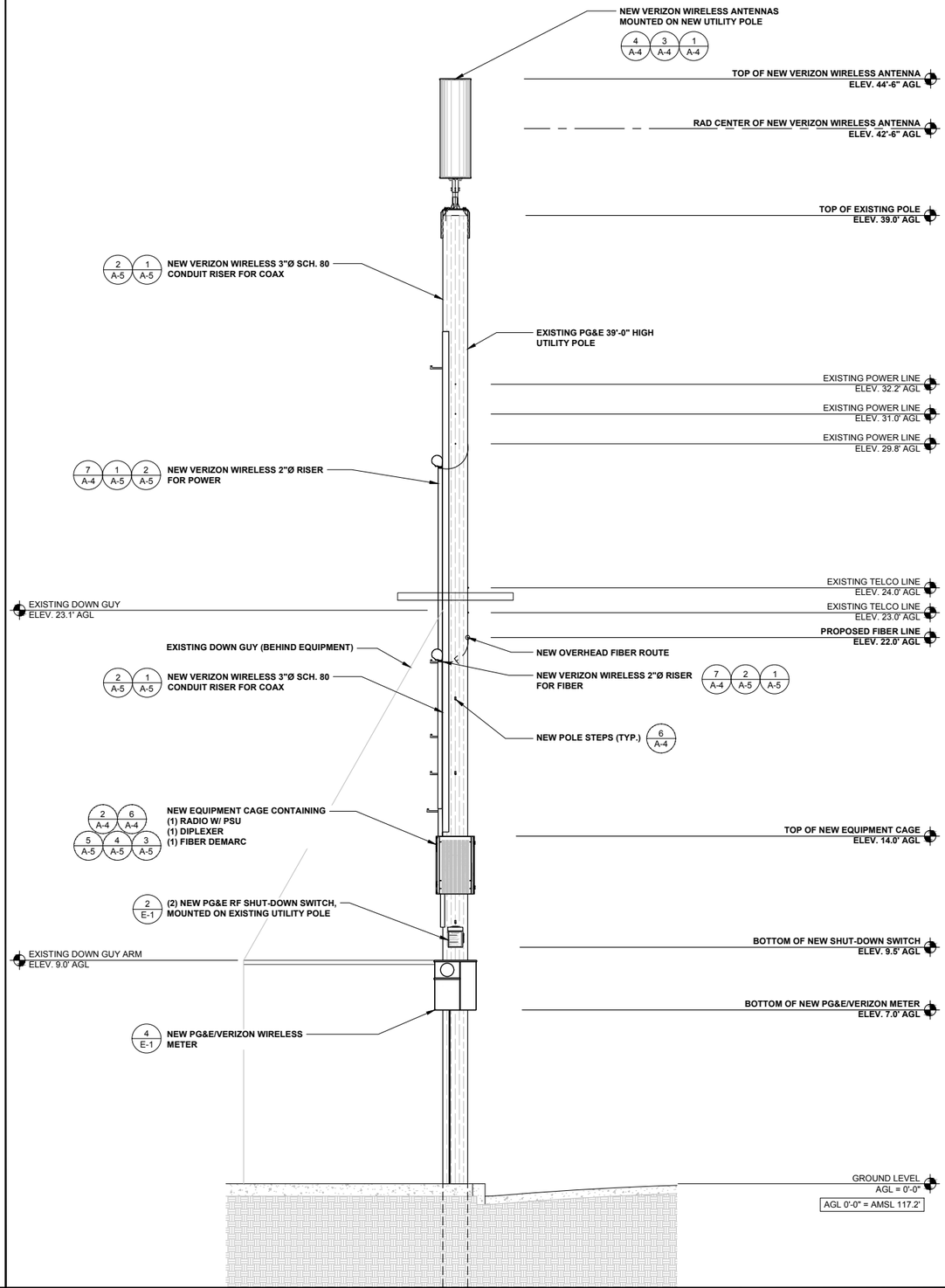
ENLARGED SITE PLAN

A-2



WEST ELEVATION

0 1' 2' 3' SCALE: 3/8" = 1'-0" (24x36) (OR) 3/16" = 1'-0" (11x17) **2**



NORTH ELEVATION

0 1' 2' 3' SCALE: 3/8" = 1'-0" (24x36) (OR) 3/16" = 1'-0" (11x17) **1**

ISSUE STATUS

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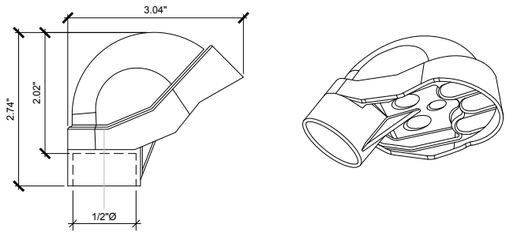
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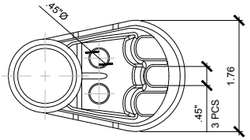
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SHEET TITLE:
NORTH & WEST ELEVATIONS

A-3



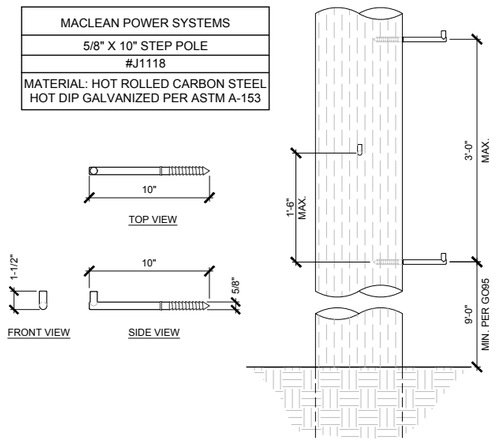


CARLON 1/2" PVC SERVICE ENTRANCE CAP
MODEL: E998D
MATERIAL: NON-METALLIC GRAY PVC

WEATHERHEAD DETAIL

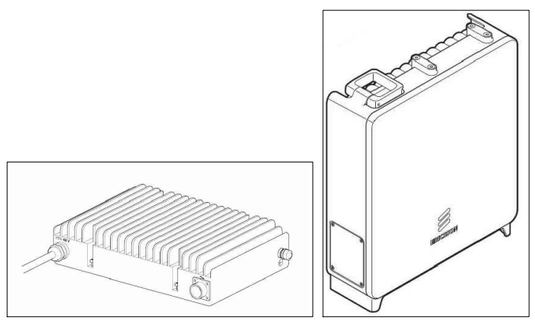
SCALE N.T.S. — 7

MACLEAN POWER SYSTEMS
5/8" X 10" STEP POLE
#J1118
MATERIAL: HOT ROLLED CARBON STEEL HOT DIP GALVANIZED PER ASTM A-153



POLE STEP DETAIL

SCALE N.T.S. — 6



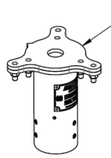
PSU AC 08	
DIMENSION	HEIGHT 2.72"
	WIDTH 10.79"
	DEPTH 7.09"
	WEIGHT 11.46LBS

PSU 6302	
DIMENSION	HEIGHT 13.00"
	WIDTH 11.42"
	DEPTH 3.90"
	WEIGHT 22.05LBS

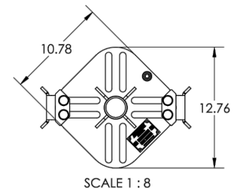
PSU DETAIL

SCALE N.T.S. — 5

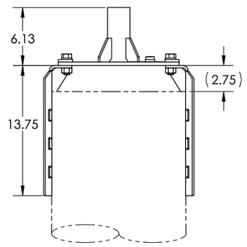
ITEM NO.	QTY.	PART NUMBER	REV.	DESCRIPTION
1	2	003167	B	LEG, WELDMENT, WIDE DIA. POLE TOP BRACKET, BROWN
2	1	002905	A	MAST WELDMENT, 6" LG, BROWN
3	2	002795	A	ECCENTRIC WASHER PLATE, BROWN
4	4	002680	A	WASHER, SPLIT LOCK, 5/8", 18-8 SS, PAS
5	4	002906	A	HHBT, 5/8"-11 UNC X 1 3/4" LG, PT, HEX, A325, GALV
6	1	002951	A	BULL'S EYE PLASTIC VIAL LEVEL
7	1	002953	A	NAMEPLATE, LABEL, ADHESIVE BACKED



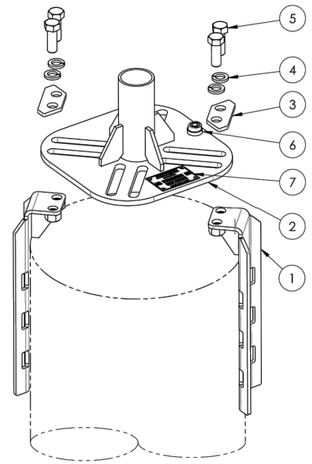
WEIGHT	27lbs (12.3kg)
HEIGHT	25-5/8" (651mm)
WIDTH	12.76" (324mm)
LENGTH	12.76" (324mm)



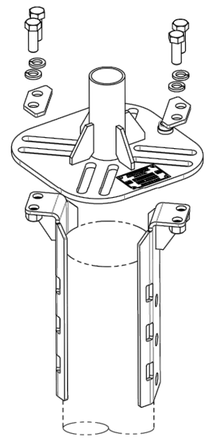
SCALE 1 : 8



SCALE 1 : 8



ARRANGEMENT FITS POLES 7-1/8" Ø TO 14-1/8"Ø

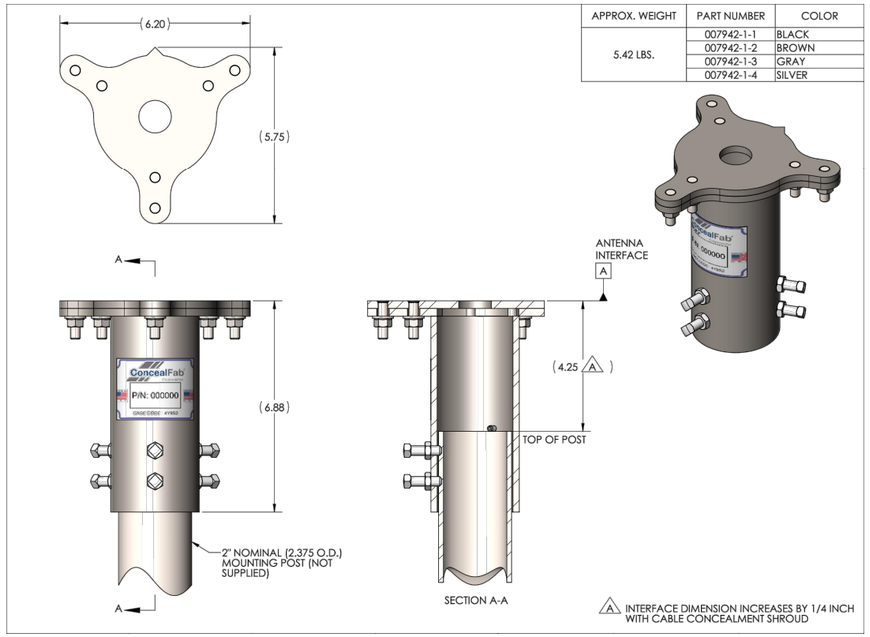


ALTERNATIVE LEG ARRANGEMENT TO FIT SMALLER POLES 5-1/4"Ø TO 7-1/8"Ø

POLE-TOP MOUNTING BRACKET

SCALE N.T.S. — 4

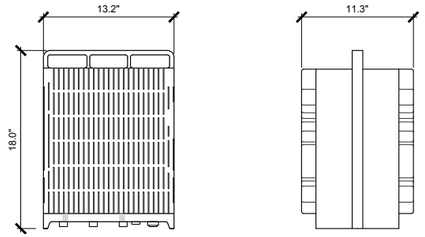
APPROX. WEIGHT	PART NUMBER	COLOR
5.42 LBS.	007942-1-1	BLACK
	007942-1-2	BROWN
	007942-1-3	GRAY
	007942-1-4	SILVER

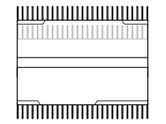


UNIVERSAL ANTENNA MOUNT ASSEMBLY

SCALE N.T.S. — 3

ERICSSON RRU
DIMENSIONS:
HEIGHT: 18"
WIDTH: 13.2"
DEPTH: 11.3"
WEIGHT: 75 LBS

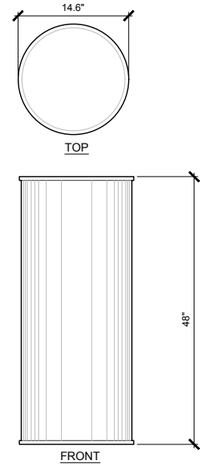




RADIO DETAIL

SCALE N.T.S. — 2

LENGTH: 48"
DIAMETER: 14.6"
WEIGHT: 38.1 LBS



ANTENNA DETAIL

SCALE N.T.S. — 1

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	01/08/19	90% CONSTRUCTION	OM
1	03/06/19	95% CONSTRUCTION	OM
2	04/03/19	100% CONSTRUCTION	OM

SAC WIRELESS
SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS
ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

verizon

2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SHEET TITLE:
DETAILS

A-4

NOT USED

SCALE N.T.S. 12

NOT USED

SCALE N.T.S. 9

NOT USED

SCALE N.T.S. 6



AWM-12		
CAPACITY	6-PACK DUPLEX SC OR LC: 12 FIBERS	AVAILABLE AS A SINGLE OR DUAL DOOR ENCLOSURE
DIMENSION	HEIGHT	8.54"
	WIDTH	10"
	DEPTH	2.88"

FIBER BOX DETAIL

SCALE N.T.S. 3

NOT USED

SCALE N.T.S. 11

NOT USED

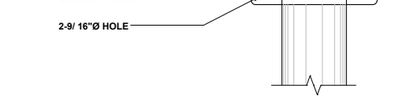
SCALE N.T.S. 8



CBC1923Q-43 | E14F55P12 (OR APPROVED EQUAL)		
DIMENSION	HEIGHT	4.6"
	WIDTH	8.3"
	DEPTH	3.3"

DIPLEXER DETAIL

SCALE N.T.S. 5



CONDUIT RISER STRAP DETAIL

SCALE N.T.S. 2

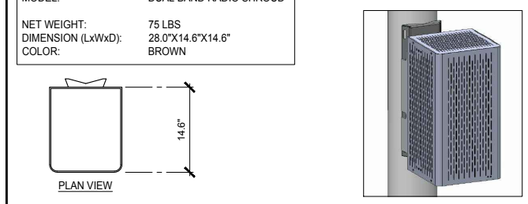
NOT USED

SCALE N.T.S. 10

NOT USED

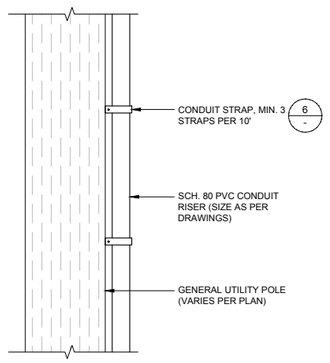
SCALE N.T.S. 7

MANUFACTURER:	ERICSSON
MODEL:	DUAL BAND RADIO SHROUD
NET WEIGHT:	75 LBS
DIMENSION (LxWxD):	28.0"X14.6"X14.6"
COLOR:	BROWN



DUAL BAND RADIO SHROUD

SCALE N.T.S. 4



CONDUIT RISER DETAIL

SCALE N.T.S. 1

ISSUE STATUS

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0	01/08/19	90% CONSTRUCTION	OM
1	03/06/19	95% CONSTRUCTION	OM
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SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

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WALNUT CREEK, CA 94598

CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SHEET TITLE:

DETAILS

A-5

PANEL/ LOAD CENTER INSIDE B-LINE
U214MTBL : METER MAIN LOAD CENTER - 100 AMPS BUS
120/240V, 1 PHASE, 3 WIRE, 10 KAIC
100 AMPS MAIN BREAKER

DESCRIPTION	C/B	POS	L1	L2	POS	C/B	DESCRIPTION
6302 PSU	20A/2P	1	815	-	2	20A/2P	PSU-08
		3	-	1000	4		
SPACE	-	5	-	-	6	-	SPACE
SPACE	-	7	-	-	8	-	SPACE
SPACE	-	9	-	-	10	-	SPACE
SPACE	-	11	-	-	12	-	SPACE
LOAD L1			815	1,000			LOAD L2
TOTAL LOAD (VXA)			=	1,815 V.A.			
TOTAL LOAD (AMPS)			=	7.56 AMPS			

PANEL SCHEDULE/ LOAD CENTER INSIDE ELECT. METER

SCALE N.T.S. | 5

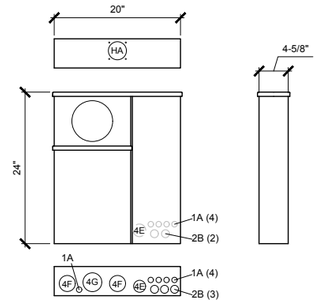
NOTE:
POWER PLAN: PG&E DRAWINGS PENDING

NOT USED

SCALE N.T.S. | 3

U214MTBL : METER MAIN LOAD CENTER - OVERHEAD / UNDERGROUND - SURFACE MOUNT

MAIN DISC.	PROV.	AIC RATING	AMPACITY MAX.	AMPACITY CONT.	VOLT-AGE	SERVICE TYPE	# OF JAWS	HUB PROV.	PHASE CONDUCTOR LINE	PHASE CONDUCTOR LOAD	NEUTRAL CONDUCTOR	LOAD CENTER
(1) 100A 2P CB	NONE	10K	100	100	120/240	1Ø 3W	4	AW	14 AWG - 2/0 AWG	MAIN CIRCUIT BREAKER	14 AWG - 1/0 AWG	12/24

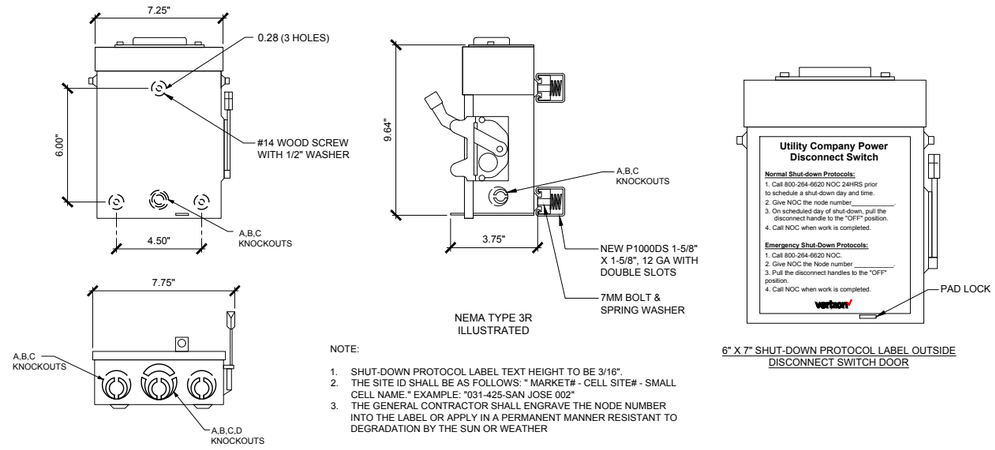


U214MTBL
OVERHEAD / UNDERGROUND - SURFACE MOUNT

KNOCKOUTS - CONDUIT SIZES	
1A	½"
2B	¾" - ½"
4E	1 ½" - 1 ¼" - 1" - ¾"
4F	2" - 1 ½" - 1 ¼" - 1"
4G	2 ½" - 2" - 1 ½" - 1 ¼"
HA	AW HUB

METER DETAIL

SCALE N.T.S. | 4



NOTE:

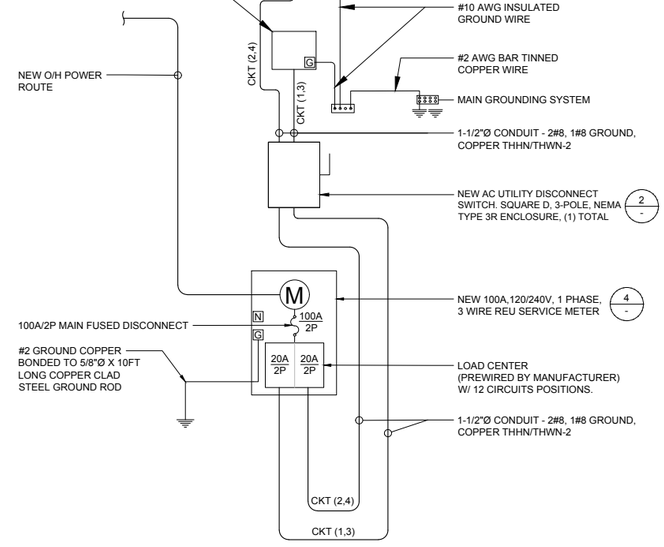
1. SHUT-DOWN PROTOCOL LABEL TEXT HEIGHT TO BE 3/16".
2. THE SITE ID SHALL BE AS FOLLOWS: " MARKET# - CELL SITE# - SMALL CELL NAME " EXAMPLE: "031-425-SAN JOSE 002".
3. THE GENERAL CONTRACTOR SHALL ENGRAVE THE NODE NUMBER INTO THE LABEL OR APPLY IN A PERMANENT MANNER RESISTANT TO DEGRADATION BY THE SUN OR WEATHER

6" X 7" SHUT-DOWN PROTOCOL LABEL OUTSIDE DISCONNECT SWITCH DOOR

RF SHUT-DOWN SWITCH DETAIL (3-POLE)

SCALE N.T.S. | 2

NOTE:
PENDING REU POWER DESIGN



POWER 1 LINE DIAGRAM

SCALE N.T.S. | 1

ISSUE STATUS

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0	01/08/19	90% CONSTRUCTION	OM
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2	04/03/19	100% CONSTRUCTION	OM

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SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

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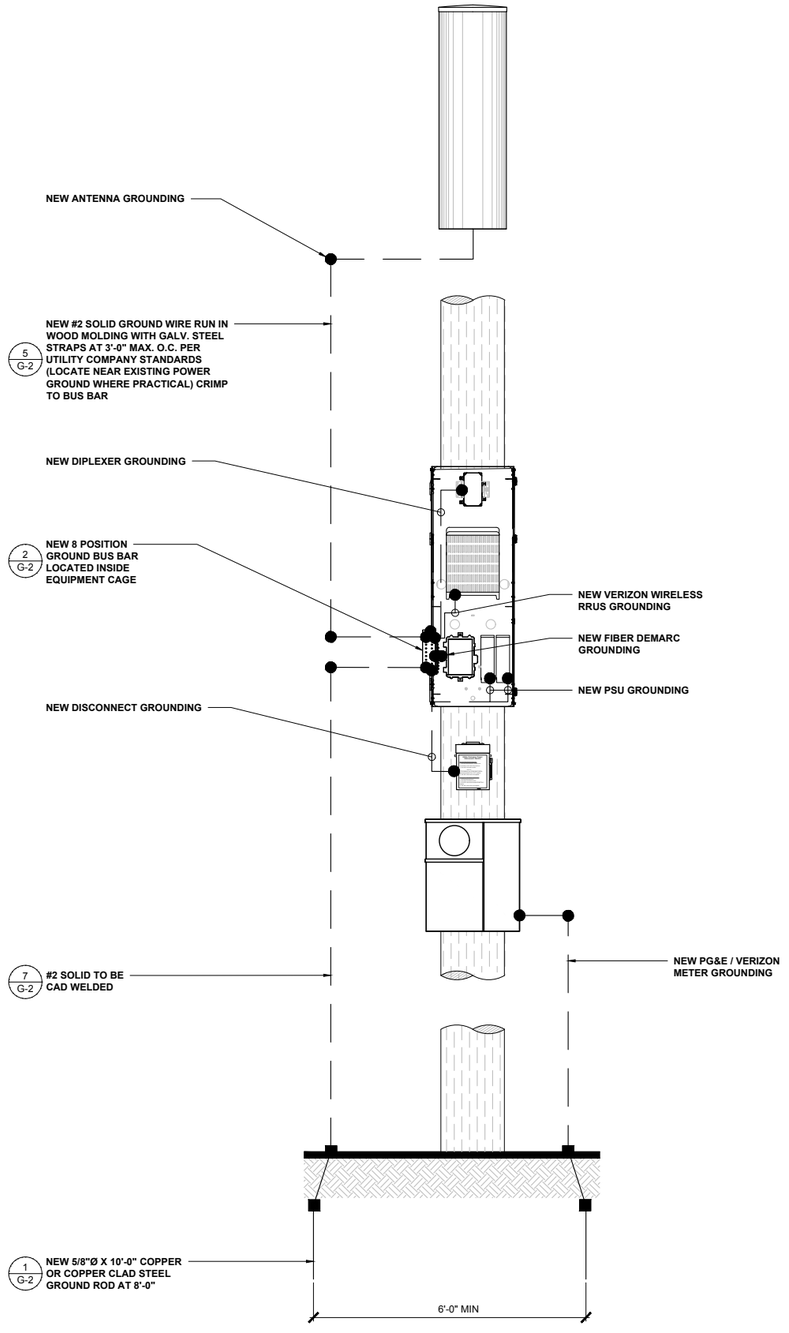
verizon

2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SHEET TITLE:
POWER 1 LINE DIAGRAM & DETAILS

E-1



EQUIPMENT GROUNDING
ELEVATION (TYPICAL)

NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. GROUND BARS:
   A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
   B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
6. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
7. ALL NEW GROUNDING LEAD CONDUCTORS SHALL BE #2 SOLID TINNED BARE COPPER.
8. NEW GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS.
9. NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE CONDITIONS.
10. CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROC OR APPROVED EQUAL, WHEN REQUIRED.
11. ALL NEW GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE VERIZON WIRELESS STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.

GROUNDING NOTES | SCALE N.T.S. | **2**

ANTENNA & EQUIPMENT GROUNDING PLAN | SCALE N.T.S. | **1**

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0	01/08/19	90% CONSTRUCTION	OM
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SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

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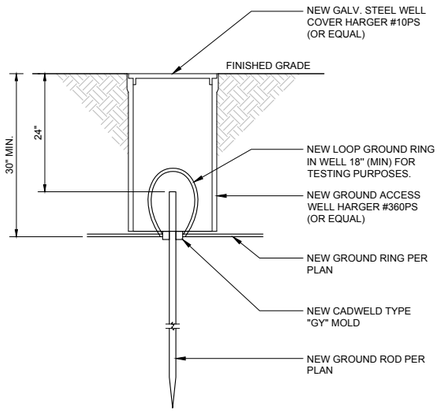
verizon

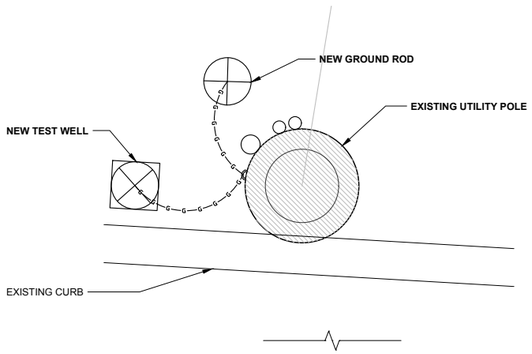
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SHEET TITLE:
GROUNDING PLAN & NOTES

G-1

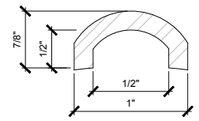




TEST WELL DETAIL

SCALE N.T.S. 8

DIS-TRAN GROUND WIRE MOLDING
MODEL: DT-GWM-O1
MATERIAL: OAK
LENGTH SECTION: 8'-0" WEIGHT: 1.7 LBS

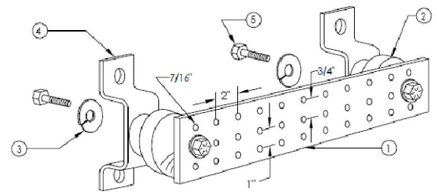


PRESERVATIVE TREATMENT

UNLESS OTHERWISE SPECIFIED, ALL GWM ARE PRESSURE TREATED ACCORDING TO THE AMERICAN WOOD PRESERVERS' ASSOCIATION STANDARDS, WITH PENTACHLOROPHENOL IN HEAVY HYDROCARBON SOLVENT PER AWPA, P-8, P-9 TYPE A.

GROUND WIRE MOLDING DETAIL

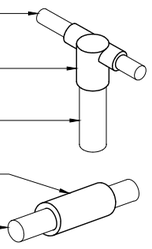
SCALE N.T.S. 5

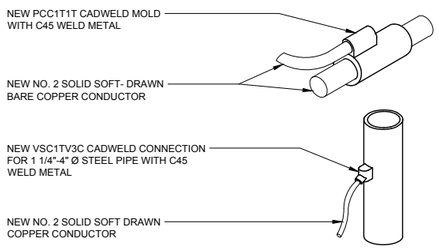


1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL.
3. ⅜" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT NO. 3015-8 OR APPROVED EQUAL.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6065 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL.
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO STRUCTURE AND BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

BUS BAR DETAIL

SCALE N.T.S. 2



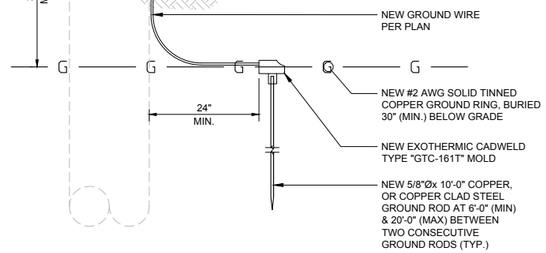


CADWELDS

SCALE N.T.S. 7

NOT USED

SCALE N.T.S. 4



GROUND RODS (GROUND ELECTRODES):
GROUND RODS ON THE COMMUNICATION MESSENGER SYSTEM(S) SHALL CONFORM TO EACH OF THE FOLLOWING REQUIREMENTS.

A. GROUND RODS SHALL BE CORROSION-RESISTING METAL RODS OR PIPES (OR EQUIVALENT IN ELECTRICAL PROPERTIES)

B. GROUND RODS SHALL NOT BE LESS THAN 5/8-INCH IN DIAMETER BY 10 FEET (TOTAL) IN LENGTH; THIS MAY INCLUDE TWO (2) FIVE-FOOT JOINED SECTIONS.

C. GROUND RODS SHALL BE DRIVEN INTO THE GROUND SO THAT ON ONE END OF THE GROUND ROD IS AT MINIMUM DEPTH OF 8 FEET BELOW THE SURFACE OF THE GROUND. THE TOP END OF THE GROUND ROD SHALL NOT BE LESS THAN 1 FOOT BELOW THE SURFACE OF THE GROUND.

D. POLE-BUTT PLATES OR WRAPPINGS SHALL NOT BE USED EITHER IN LIEU OF THE AFORESAID GROUND RODS OR PIPES, OR AS ELECTRODES SUPPLEMENTARY THERETO.

E. THE DRIVEN GROUND ROD(S), PIPE(S), OR EQUIVALENT SHALL BE LOCATED 24 INCHES OR MORE FROM THE SURFACE OF THE POLE.

NOT USED

SCALE N.T.S. 6

NOT USED

SCALE N.T.S. 3

GROUND ROD DETAIL

SCALE N.T.S. 1

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WALNUT CREEK, CA 94598

CC SEASIDE 001
PSL # 473024
1108 SAN LUCAS ST
SEASIDE, CA 93955

SHEET TITLE:
GROUNDING DETAILS

G-2

verizon

CC SEASIDE 004
PSL # 473028

1431 WARING ST
SEASIDE, CA 93955

PROJECT TEAM

SITE ACQUISITION
SAC WIRELESS, LLC.
8880 CAL CENTER DRIVE
SUITE 130
SACRAMENTO, CA 95826
CONTACT: KRISTINA DEMOLLI
TELEPHONE: (916) 600-9610
KRISTINA.DEMOLLI@SACW.COM

PLANNING
TEK CONSULTING INC.
PERMIT PROCESSING SERVICES
123 SEACLIFF DR
PISMO BEACH, CA 93449
CONTACT: TRICIA KNIGHT
TELEPHONE: (805) 448-4221
FAX: (805) 888-2807
TEK-CONSULTING.NET

ARCHITECT:
SAC WIRELESS, LLC.
NESTOR POPOWYCH, AIA
5015 SHOREHAM PLACE SUITE 150
SAN DIEGO, CA 92122
CONTACT: OMAR MUNOZ
TELEPHONE: (619) 736-3588
FAX: (760) 931-0908
OMAR.MUNOZ@SACW.COM

SURVEYOR:
SMITHCO SURVEYING ENGINEERING
P.O. BOX 81626
BAKERSFIELD, CA 93380
CONTACT: GREG SMITH, PLS
TELEPHONE: (661) 393-1217

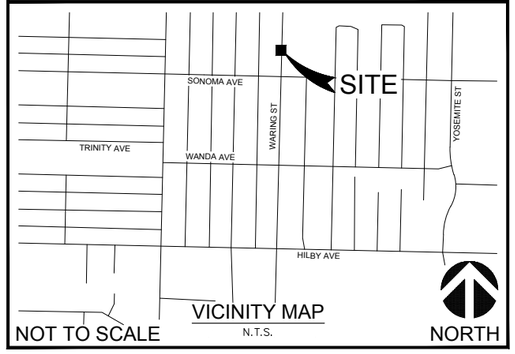
UTILITY COORDINATOR:
SAC WIRELESS, LLC.
1057 LA VISTA ROAD
SANTA BARBARA, CA 93110
CONTACT: CRAIG ENGEL
TELEPHONE: (805) 440-0038

VERIZON WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
CONSTRUCTION:		
RADIO:		
MICROWAVE:		
TELCO:		
EQUIPMENT:		
PROJECT ADMINISTRATOR:		
WO ADMINISTRATOR:		

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE IN NTO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

VICINITY MAP



NOT TO SCALE — VICINITY MAP (N.T.S.) — NORTH

DRIVING DIRECTIONS

FROM: 2785 MITCHELL DR.
WALNUT CREEK, CA 94958

TO: 1431 WARING ST
SEASIDE, CA 93955

1. HEAD SOUTH TOWARD SHADELANDS DR
2. TURN RIGHT ONTO SHADELANDS DR
3. TURN LEFT ONTO N WIGET LANE
4. TURN RIGHT ONTO YGNACIO VALLEY RD
5. YGNACIO VALLEY ROAD TURNS RIGHT AND BECOMES HILLSIDE AVE
6. USE THE LEFT 2 LANES TO TURN LEFT ONTO THE INTERSTATE 680 S RAMP TO SAN JOSE
7. MERGE ONTO I-680 S
8. USE THE RIGHT 3 LANES TO MERGE ONTO US-101 S TOWARD LOS ANGELES
9. TAKE EXIT 336 TOWARD MONTEREY/PENINSULA
10. MERGE ONTO CA-156 W
11. MERGE ONTO CA-1 S
12. TAKE EXIT 404 FOR FREMONT BLVD/DEL MONTE BLVD
13. CONTINUE ONTO FREMONT BLVD
14. TURN LEFT ONTO ORD GROVE AVENUE
15. TURN RIGHT ONTO NOCHE BUENA STREET
16. TURN LEFT ONTO SONOMA AVENUE
17. TURN LEFT ONTO WARING STREET
18. DESTINATION WILL BE ON THE RIGHT

PROJECT DESCRIPTION

THIS PROJECT IS A VERIZON WIRELESS UNMANNED TELECOMMUNICATION WIRELESS FACILITY. IT WILL CONSIST OF THE FOLLOWING:

- (1) NEW 39' (AGL) POLE BY PG&E UNDER SEPARATE PERMIT
- (1) NEW ANTENNA
- (1) NEW EQUIPMENT CABINET
- (1) NEW FIBER DISTRIBUTION PANEL
- (1) RF SHUT DOWN SWITCH
- (2) NEW RRU'S
- (1) NEW PG&E / VERIZON WIRELESS METER

PROJECT SUMMARY

APPLICANT/LESSEE
verizon
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598
OFFICE: (925) 279-6000

APPLICANT'S REPRESENTATIVE
TEK CONSULTING INC.
PERMIT PROCESSING SERVICES
123 SEACLIFF DR
PISMO BEACH, CA 93449
CONTACT: TRICIA KNIGHT
TELEPHONE: (805) 448-4221
FAX: (805) 888-2807
TEK-CONSULTING.NET

POLE OWNER:
OWNER: JPA/PG&E
CONTACT: PACIFIC GAS & ELECTRIC
BRIAN MORROW
160 COW MEADOW PL
TEMPLETON, CA 93465
PHONE #: (661) 319-9087

PROPERTY INFORMATION:
SITE NAME: CC SEASIDE 004
SITE NUMBER: 473028
SITE ADDRESS: 1431 WARING ST
SEASIDE, CA 93955
JURISDICTION: CITY OF SEASIDE

ASSESSOR'S PARCEL NUMBER
PUBLIC RIGHT-OF-WAY

GEODETIC COORDINATES
LAT. 36° 36' 23.43' N. NAD 83
LONG. 121° 50' 04.79' W. NAD 83
ELEV. 153.8' NAVD 88 (BASIS OF DRAWING)

CONSTRUCTION INFORMATION

AREA OF CONSTRUCTION:	N/A
OCCUPANCY:	U
TYPE OF CONSTRUCTION:	V-B
CURRENT ZONING:	R.O.W.
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2016 CALIFORNIA ADMINISTRATIVE CODE
- 2016 CALIFORNIA BUILDING CODES
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA FIRE CODE
- 2016 CALIFORNIA ENERGY CODE
- CITY & COUNTY ORDINANCES

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	1
T-2	RF SIGNAGE DETAIL, NOTES, LEGEND & ABBREVIATIONS	1
T-3	GENERAL NOTES & SPECIFICATIONS	1
C-1	SITE SURVEY	0
A-1	SITE PLAN	1
A-2	ENLARGED SITE PLAN, EQUIPMENT & ANTENNA LAYOUT	1
A-3	NORTH & WEST ELEVATIONS	1
A-4	DETAILS	1
A-5	DETAILS	1
E-1	POWER 1 LINE DIAGRAM, DETAILS & NOTES	1
G-1	GROUNDING PLAN & NOTES	1
G-2	GROUNDING DETAILS	1

CONSTRUCTION DRAWINGS

SAC WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
PLANNER:		
CONSTRUCTION:		
LANDLORD:		

CALL 811
WWW.CALL811.COM
CONTRACTOR TO CALL TO VERIFY UTILITIES AT LEAST TWO WORKING DAYS PRIOR TO DIGGING
Know what's below. Call before you dig.

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/05/18	90% CONSTRUCTION	FR
1	11/27/18	100% CONSTRUCTION	FR

SAC WIRELESS
SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

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verizon
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

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SEASIDE, CA 93955

SHEET TITLE:
TITLE SHEET

T-1



TYPICAL CAUTION SIGN

RF CAUTION SIGNAGE 1

GENERAL FIRE NOTES: (SFM)

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2013 CFC SECTION 1401.
2. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. [2013 CFC SECTION 505.1]
3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. [2013 CFC SECTION 807-1.2]
4. PORTABLE FIRE EXTINGUISHERS:
   AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. [2013 CFC SECTION 906.1.1 AND SECTION 906.3.1)]

NOTES 2

- NEW ANTENNA
- EXISTING ANTENNA
- GROUND ROD
- GROUND BUS BAR
- MECHANICAL GRND. CONN.
- CADWELD
- GROUND ACCESS WELL
- ELECTRIC BOX
- TELEPHONE BOX
- LIGHT POLE
- FND. MONUMENT
- SPOT ELEVATION
- SET POINT
- REVISION
- UTILITY POLE
- ANTENNA (CANTENNA)
- SEWER MANHOLE
- SIGNAGE (TRAFFIC)
- PROPERTY/LEASE LINE
- CENTERLINE
- MATCH LINE
- WORK POINT
- GROUND CONDUCTOR
- GRID REFERENCE
- DETAIL REFERENCE
- ELEVATION REFERENCE
- SECTION REFERENCE
- WOOD CONT.
- WOOD BLOCKING
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- GROUT OR PLASTER
- PLYWOOD
- SAND
- STEEL
- EXISTING CHAIN-LINK FENCING
- NEW CHAIN-LINK FENCING
- WROUGHT IRON FENCING
- WOOD FENCING
- E — ELECTRICAL CONDUIT (POWER)
- OH/E — OVERHEAD ELECTRICAL (POWER)
- UG/E — UNDERGROUND ELECTRICAL (POWER)
- T — TELEPHONE CONDUIT
- OH/T — OVERHEAD TELCO
- UG/T — UNDERGROUND TELCO
- E/T — ELECTRICAL / TELCO CONDUIT (POWER & FIBER)
- OH/ET — OVERHEAD POWER & TELCO
- UG/ET — UNDERGROUND POWER & TELCO
- CC — COAXIAL CABLE
- F — FIBER / HYBRID
- E/F — POWER / FIBER

LEGEND 3

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
A.B.	ANCHOR BOLT	FAB.	FABRICATION(OR)	PWR.	POWER (CABINET)
ABV.	ABOVE	F.F.	FINISH FLOOR	QTY.	QUANTITY
ACCA	ANTENNA CABLE COVER ASSEMBLY	F.G.	FINISH GRADE	RAD.(R)	RADIUS
ADDL	ADDITIONAL	FIN.	FINISH(ED)	REF.	REFERENCE
A.F.F.	ABOVE FINISHED FLOOR	FLR.	FLOOR	REINF.	REINFORCEMENT(ING)
A.F.G.	ABOVE FINISHED GRADE	FDN.	FOUNDATION	REQ'D.	REQUIRED
ALUM.	ALUMINUM	F.O.C.	FACE OF CONCRETE	RGS.	RIGID GALVANIZED STEEL
ALT.	ALTERNATE	F.O.M.	FACE OF MASONRY	SCH.	SCHEDULE
ANT.	ANTENNA	F.O.S.	FACE OF STUD	SHT.	SHEET
APPRX.	APPROXIMATE(LY)	F.O.W.	FACE OF WALL	SIM.	SIMILAR
ARCH.	ARCHITECT(URAL)	F.S.	FINISH SURFACE	SPEC.	SPECIFICATION(S)
AWG.	AMERICAN WIRE GAUGE	FT.(')	FOOT(FEET)	SQ.	SQUARE
BLDG.	BUILDING	FTG.	FOOTING	S.S.	STAINLESS STEEL
BLK.	BLOCK	G.	GROWTH (CABINET)	STD.	STANDARD
BLKG.	BLOCKING	GA.	GAUGE	STL.	STEEL
BM.	BEAM	GI.	GALVANIZE(D)	STRUC.	STRUCTURAL
B.N.	BOUNDARY NAILING	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	TEMP.	TEMPORARY
BTCW.	BARE TINNED COPPER WIRE	GLB.(GLU-LAM)	GLUE LAMINATED BEAM	THK.	THICK(NESS)
B.O.F.	BOTTOM OF FOOTING	GPS	GLOBAL POSITIONING SYSTEM	T.N.	TOE NAIL
B/U	BACK-UP CABINET	GRND.	GROUND	T.O.A.	TOP OF ANTENNA
CAB.	CABINET	HDR.	HEADER	T.O.C.	TOP OF CURB
CANT.	CANTILEVER(ED)	HGR.	HANGER	T.O.F.	TOP OF FOUNDATION
C.I.P.	CAST IN PLACE	HT.	HEIGHT	T.O.P.	TOP OF PLATE (PARAPET)
CLG.	CEILING	ICGB.	ISOLATED COPPER GROUND BUS	T.O.S.	TOP OF STEEL
CLR.	CLEAR	IN.(")	INCH(ES)	T.O.W.	TOP OF WALL
COL.	COLUMN	INT.	INTERIOR	TYP.	TYPICAL
CONC.	CONCRETE	LB.(#)	POUND(S)	U/G	UNDER GROUND
CONN.	CONNECTION(OR)	L.B.	LAG BOLTS	U.L.	UNDERWRITERS LABORATORY
CONST.	CONSTRUCTION	L.F.	LINEAR FEET (FOOT)	U.N.O.	UNLESS NOTED OTHERWISE
CONT.	CONTINUOUS	L.	LONG(ITUDINAL)	V.I.F.	VERIFY IN FIELD
d	PENNY (NAILS)	MAS.	MASONRY	W	WIDE(WIDTH)
DBL.	DOUBLE	MAX.	MAXIMUM	W/	WITH
DEPT.	DEPARTMENT	M.B.	MACHINE BOLT	WD.	WOOD
D.F.	DOUGLAS FIR	MECH.	MECHANICAL	W.P.	WEATHERPROOF
DIA.	DIAMETER	MFR.	MANUFACTURER	WT.	WEIGHT
DIAG.	DIAGONAL	MIN.	MINIMUM	℄	CENTERLINE
DIM.	DIMENSION	MISC.	MISCELLANEOUS	ℙ	PLATE
DWG.	DRAWING(S)	MTL.	METAL		
DWL.	DOWEL(S)	(N)	NEW		
EA.	EACH	NO.(#)	NUMBER		
EL.	ELEVATION	N.T.S.	NOT TO SCALE		
ELEC.	ELECTRICAL	O.C.	ON CENTER		
ELEV.	ELEVATOR	OPNG.	OPENING		
EMT.	ELECTRICAL METALLIC TUBING	P/C	PRECAST CONCRETE		
E.N.	EDGE NAIL	PCS	PERSONAL COMMUNICATION SERVICES		
ENG.	ENGINEER	PLY.	PLYWOOD		
EQ.	EQUAL	PPC	POWER PROTECTION CABINET		
EXP.	EXPANSION	PRC	PRIMARY RADIO CABINET		
EXST.(E)	EXISTING	P.S.F.	POUNDS PER SQUARE FOOT		
EXT.	EXTERIOR	P.S.I.	POUNDS PER SQUARE INCH		

ABBREVIATIONS 4

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36" SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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SHEET TITLE:
NOTES, LEGEND & ABBREVIATIONS

T-2

GENERAL

1. THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS U [2016 CBC, TITLE 24, PART 2, VOLUME 1, SECTION 312.].
2. THIS FACILITY IS EXEMPT FROM ACCESSIBILITY REQUIREMENTS PER 2016 CBC SECTION 11B-203.5 THIS FACILITY IS NON-OCCUPIABLE SPACE & ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BIDS, & PROCEEDING WITH ANY WORK.
4. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER & SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT.
5. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, & TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
7. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, & BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, & TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
10. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. & ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, & 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
11. THE CONTRACTOR & SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL & STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
12. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
13. THE CONTRACTOR SHALL SUPERVISE & COORDINATE ALL WORK, USING HIS/HER PROFESSIONAL KNOWLEDGE & SKILLS. HE/SHE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCING & COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN & PAY FOR ALL PERMITS, LICENSES & INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT & MAKE FINAL PAYMENT OF SAID DOCUMENT.
15. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
17. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
18. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL & PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
19. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
20. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
21. ALL GENERAL NOTES & STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
22. ALL DEBRIS & REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
23. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING & CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
24. ALL SYMBOLS & ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

CONCRETE

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS OTHERWISE NOTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" & ALL HOOKS SHALL BE STANDARD U.N.O.
2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.
3. BARS NOTED "CONT.", TYPICAL WALL REINFORCING, & VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL 40 BAR DIAMETERS LAP, OR 24" WHICHEVER IS GREATER.
4. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICE AT OTHER LOCATIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
5. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED.
6. ALL REINFORCING, ANCHOR BOLTS & OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
7. #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
8. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE:

BELOW GRADE (UNFORMED)	3"	CLEAR
BELOW GRADE (FORMED)	2"	CLEAR
WALLS	1"	CLEAR
COLUMNS	1 1/2"	CLEAR
BEAMS & GIRDERS	1 1/2"	CLEAR
STRUCTURAL SLAB (ABOVE GRADE)	3/4"	CLEAR

CONCRETE (GENERAL)

1. STRUCTURAL FILL & BACKFILL SHOULD CONSIST OF A NON-EXPANSIVE GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER & PLACED IN UNIFORM 6" LIFTS.
2. STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
3. STRUCTURAL FILL UNDERNEATH FOUNDATIONS & SLABS SHALL BE COMPACTED WITH A SMOOTH VIBRATORY COMPACTION DEVICE PRIOR TO CONCRETE PLACEMENT.
4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CURRENT ACI 318.
5. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI. UNLESS OTHERWISE SPECIFIED. WATER CEMENTITIOUS MATERIAL/RATIO & AIR CONTENT SHALL COMPLY WITH ACI 318 SECTION 19.3.
6. CEMENT FOR CONCRETE OR MASONRY MORTAR SHALL BE TYPE V "PORTLAND CEMENT" & CONFORM TO ASTM C-150 STANDARDS. UNLESS OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT OR IN THE DRAWINGS.
7. AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C-33 STANDARDS.
8. CONCRETE SHALL BE DEPOSITED IN ACCORDANCE WITH 318 SECTION 26.5.2 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
9. COLD WEATHER & HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 19.3 & SECTIONS 26.5.4 & 26.5.5.
10. AFTER PLACEMENT, THE CONCRETE SHALL BE COVERED WITH A PLASTIC VAPOR BARRIER FOR A 4 TO 7 DAY INITIAL CURING PERIOD.
11. A MINIMUM OF THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN. ONE SHALL BE TESTED AT 7 DAYS, ONE AT 28 DAYS, & ONE HOLD CYLINDER. UNLESS OTHERWISE SPECIFIED BY GOVERNING AGENCY.
12. FLOOR SLABS SHALL CONFORM TO ASTM C-38 STANDARDS & SHALL BE 3 1/2 INCHES MINIMUM THICK - SEE FOUNDATION PLANS FOR REINFORCEMENT, BASE, UNDERLAYMENT, VAPOR BARRIER OR OTHER SPECIFIC REQUIREMENTS.
13. FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS. TOLERANCE: 1/8 INCH IN 10 FEET.
14. TOP OF CONCRETE SLAB TO BE 6" MINIMUM ABOVE FINISH GRADE. UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS
15. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
16. ALL EXTERIOR CONCRETE WALLS, PORCHES & PLATFORMS ON SITE TO HAVE A ROCK SALT FINISH. (U.O.N.)
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE PLACEMENT OF ALL ROUGH HARDWARE & ALL ITEMS OF OTHER TRADES REQUIRED TO BE EMBEDDED IN CONCRETE WORK.

METALS

STRUCTURAL FRAMING SYSTEM & EQUIPMENT

1. CABLE LADDERS AT INTERIOR SPACES WHERE INDICATED SHALL BE 1-1/2" SOLID BAR STRINGERS TYPE
2. ALL UNISTRUT SHALL BE P1000 (1-5/8").
3. MICROFLECT SHALL BE B 1 1 1 8 (U.N.O.) TO MATCH CABLE TRAY.
4. CABLE RUNS ON ROOF TOP & OUTDOOR APPLICATIONS, SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. ALL ANTENNA SPECS. PER RF DATA SHEET.

STRUCTURAL METAL

1. ALL STRUCTURAL STEEL SHALL COMPLY WITH MOST RECENT ASTM A-36 STANDARDS.
2. ALL CONNECTIONS & FABRICATIONS SHALL COMPLY WITH MOST RECENT A.I.S.C. SPECIFICATIONS.
3. ALL WELDING SHALL BE PERFORMED BY OPERATORS WHO HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN MOST RECENT "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY.
4. USE ALL MEANS NECESSARY TO PROTECT STRUCTURAL STEEL BEFORE, DURING & AFTER INSTALLATION & TO PROTECT THE INSTALLED WORK & MATERIALS OF ALL OTHER TRADES.
5. IN THE EVENT OF DAMAGE IMMEDIATELY MAKE ALL REPAIRS & REPLACEMENTS NECESSARY TO THE APPROVAL OF & AT NO ADDITIONAL COST TO THE OWNER.
6. HIGH-STRENGTH BOLTS SHALL COMPLY WITH ASTM A-325 N. BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE. OTHER MACHINE BOLTS & ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A-307
7. WELDS SHALL BE MADE WITH ASTM-233, E-70 SERIES ELECTRODES FOR STEEL TO STEEL CONNECTIONS. WELDING OF REINFORCING BARS SHALL BE DONE WITH ELECTRODES AS APPROVED BY A CERTIFIED TESTING LABORATORY.
8. ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAP, HANGER & OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO. OR APPROVED EQUIVALENT.
9. ALL EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZING AFTER FABRICATION.
10. ALL WELDING DONE AFTER GALVANIZING SHALL BE PROTECTED WITH TWO (2) COATS OF "GALVANIZED" OR "GALVALOY"

ELECTRICAL

1. REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION
2. ALL ELECTRIC WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE. (REFER TO THE COVER SHEET)
3. ALL INTERIOR SEISMIC UNISTRUT SHALL BE GROUNDED WITH #6 STRANDED COPPER WITH GREEN JACKET. ALL CONNECTIONS TO BE DOUBLE LUG.
4. BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION & DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT & IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REROUTING OF EXISTING LINES IS NECESSARY.

ISSUE STATUS

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0	10/05/18	90% CONSTRUCTION	FR
1	11/27/18	100% CONSTRUCTION	FR

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SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

T-3

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24"X 36" SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

NOTES:

OWNER(S): WITHIN PUBLIC RIGHT-OF-WAY

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF ANY PARCEL OF LAND, NOR DOES IT IMPLY OR INFER THAT A BOUNDARY SURVEY WAS PERFORMED. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION. PROPERTY LINES AND LINES OF TITLE WERE NEITHER INVESTIGATED NOR SURVEYED AND SHALL BE CONSIDERED APPROXIMATE ONLY. NO PROPERTY MONUMENTS WERE SET.

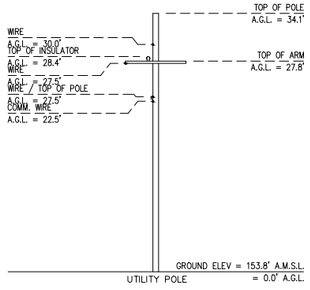
THE UNDERGROUND UTILITIES (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN LOCATED BY FIELD OBSERVATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD RATE MAP FOR COMMUNITY NO. 060203, PANEL NO. 0327G, DATED APRIL 2, 2009 SHOWS THAT THE LOCATION OF THIS SITE FALLS WITHIN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

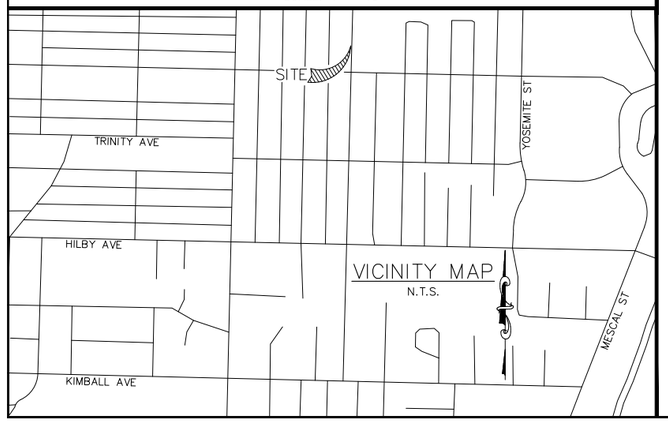
THE LATITUDE AND LONGITUDE AT THE LOCATION AS SHOWN WAS DETERMINED BY GPS OBSERVATIONS.

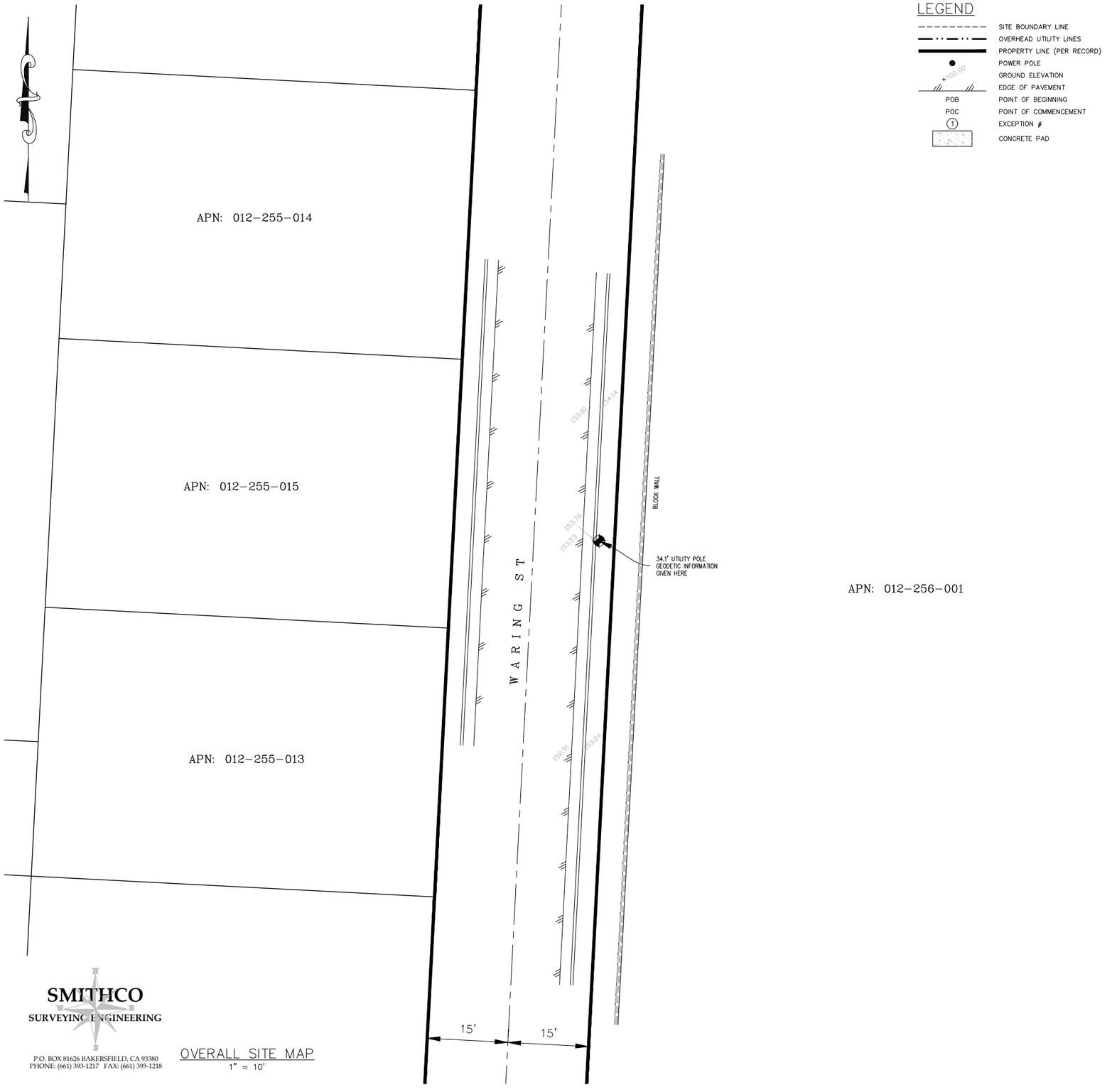
LAT. 36° 36' 23.43" N. NAD 83
LONG. 121° 50' 04.79" W. NAD 83
ELEV. 153.8' NAVD 88 (BASIS OF DRAWING)

The information shown above meets or exceeds the requirements set forth in FAA order 8260.19D for 1-A accuracy (± 20' horizontally and ± 3' vertically). The horizontal datum (coordinates) are expressed as degrees and decimal degrees thereof. The vertical datum (heights) are expressed in feet and decimals thereof and are determined to the nearest 0.1 foot.



ELEVATION VIEW – LOOKING NORTH
SCALE: 1" = 10'





OVERALL SITE MAP
1" = 10'

SMITHCO
SURVEYING ENGINEERING
P.O. BOX 81626 BAKERSFIELD, CA 93380
PHONE: (661) 393-1217 FAX: (661) 393-1218

LEGEND

- SITE BOUNDARY LINE
- OVERHEAD UTILITY LINES
- PROPERTY LINE (PER RECORD)
- POWER POLE
- +100.00 GROUND ELEVATION
- EDGE OF PAVEMENT
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT
- (1) EXCEPTION #
- CONCRETE PAD

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	09/18/18	PRELIMINARY	EJ

SMITHCO JOB NO.: 82-1192

AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

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WALNUT CREEK, CA 94598

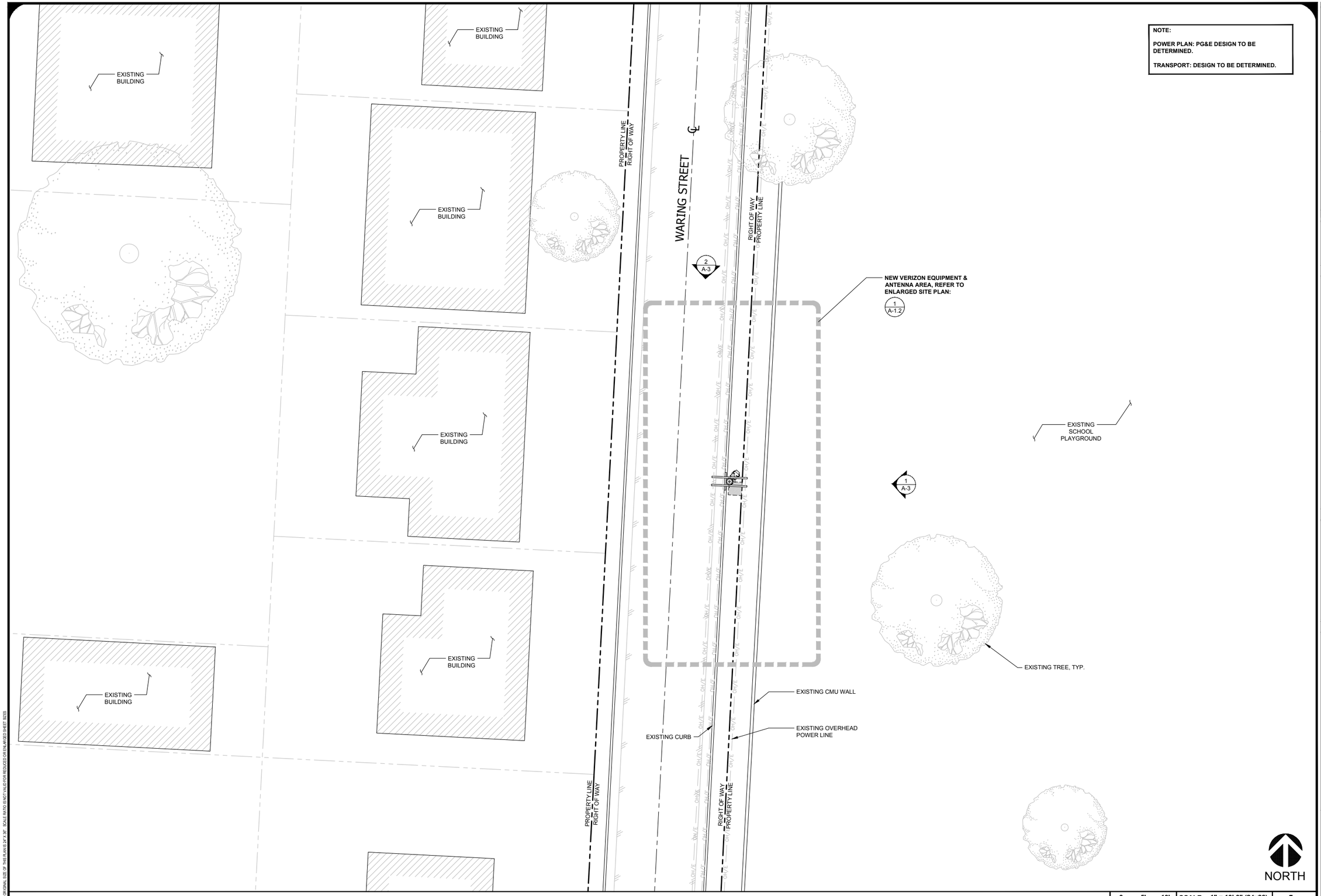
CC SEASIDE 004

1431 WARING ST
SEASIDE, CA 93955

MONTEREY COUNTY

SHEET TITLE:
SITE SURVEY
FOR EXAMINATION ONLY

C-1



NOTE:

POWER PLAN: PG&E DESIGN TO BE DETERMINED.

TRANSPORT: DESIGN TO BE DETERMINED.

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/05/18	90% CONSTRUCTION	FR
1	11/27/18	100% CONSTRUCTION	FR

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WALNUT CREEK, CA 94598

CC SEASIDE 004
PSL # 473028
1431 WARING ST
SEASIDE, CA 93955

SHEET TITLE:

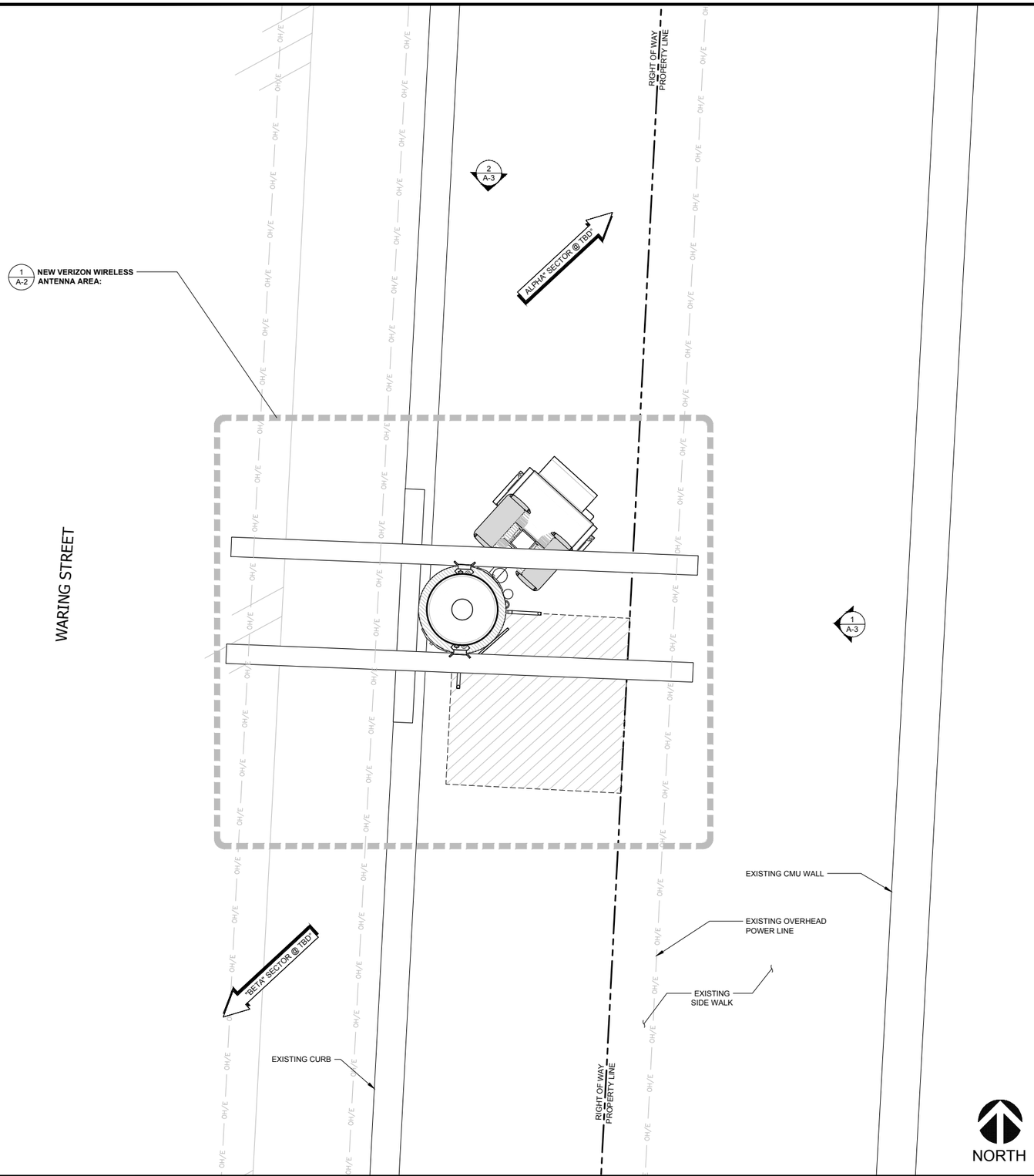
SITE PLAN

A-1

SCALE: 1" = 10'-0" (24x36)
(OR) 1/2" = 10'-0" (11x17)

1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

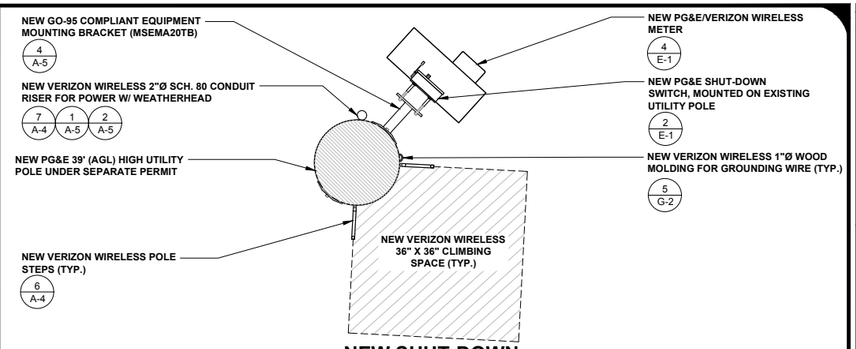


ENLARGED SITE PLAN

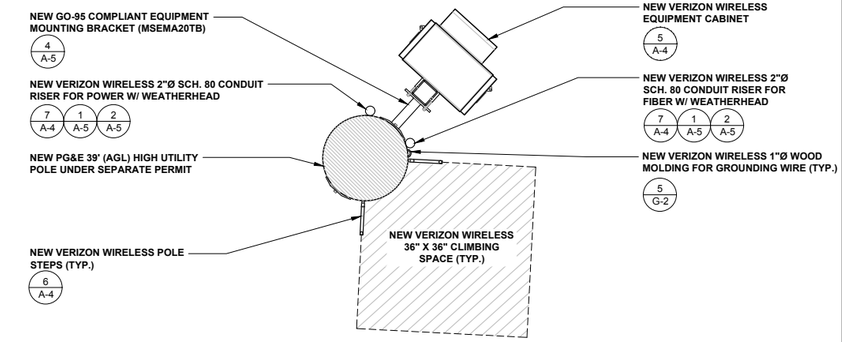
0 3" 6" 1'

SCALE: 1" = 1'-0" (24x36)
(OR) 1/2" = 1'-0" (11x17)

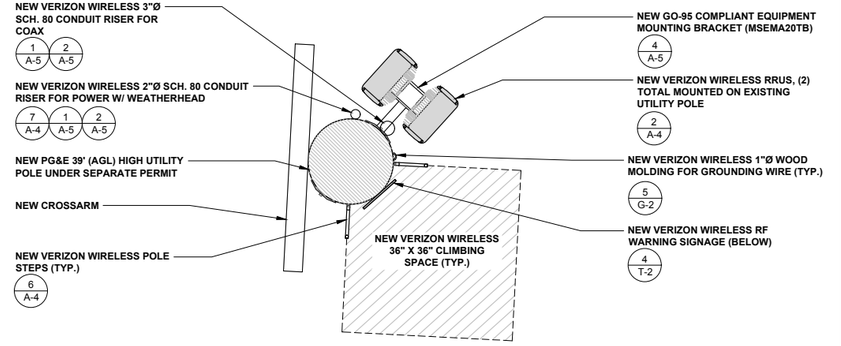
2



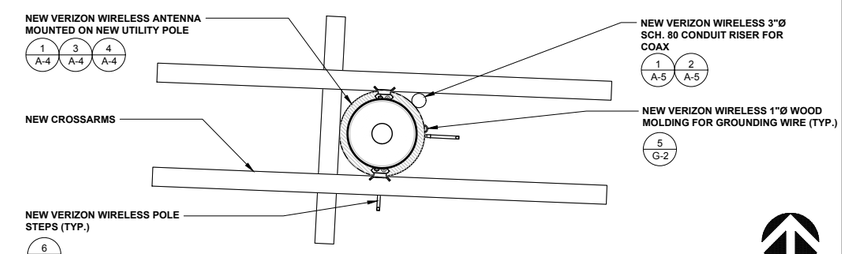
NEW SHUT-DOWN SWITCH @ 9'-0" AGL



NEW CABINET AT 10'-0" AGL



NEW RRU'S



NEW ANTENNA

NORTH

ANTENNA & EQUIPMENT LAYOUT

0 3" 6" 1'

SCALE: 3/4 = 1'-0" (24x36)
(OR) 3/8" = 1'-0" (11x17)

1

ISSUE STATUS

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0	10/05/18	90% CONSTRUCTION	FR
1	11/27/18	100% CONSTRUCTION	FR

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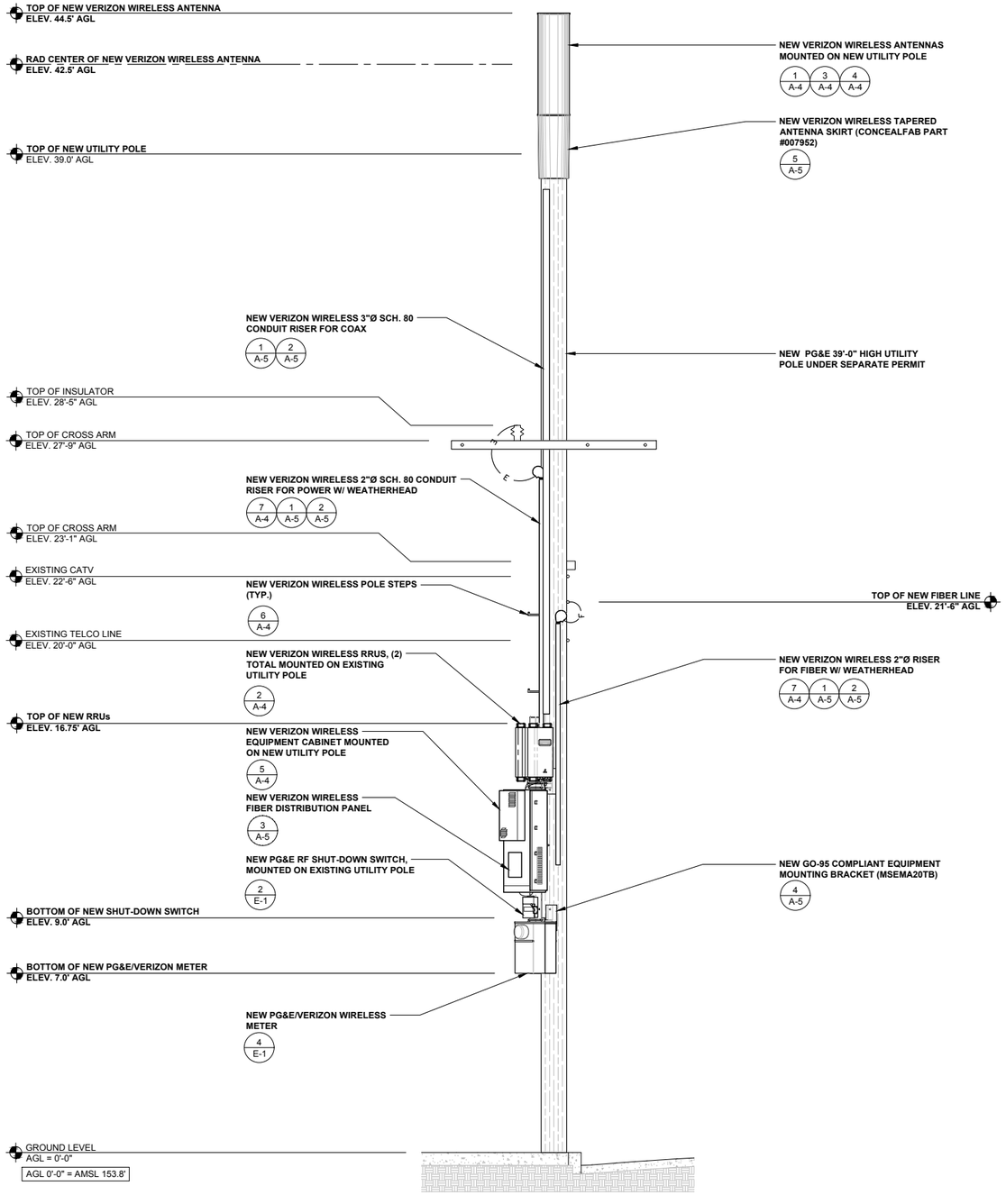
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 004
PSL # 473028
1431 WARING ST
SEASIDE, CA 93955

SHEET TITLE:
ENLARGED SITE PLAN

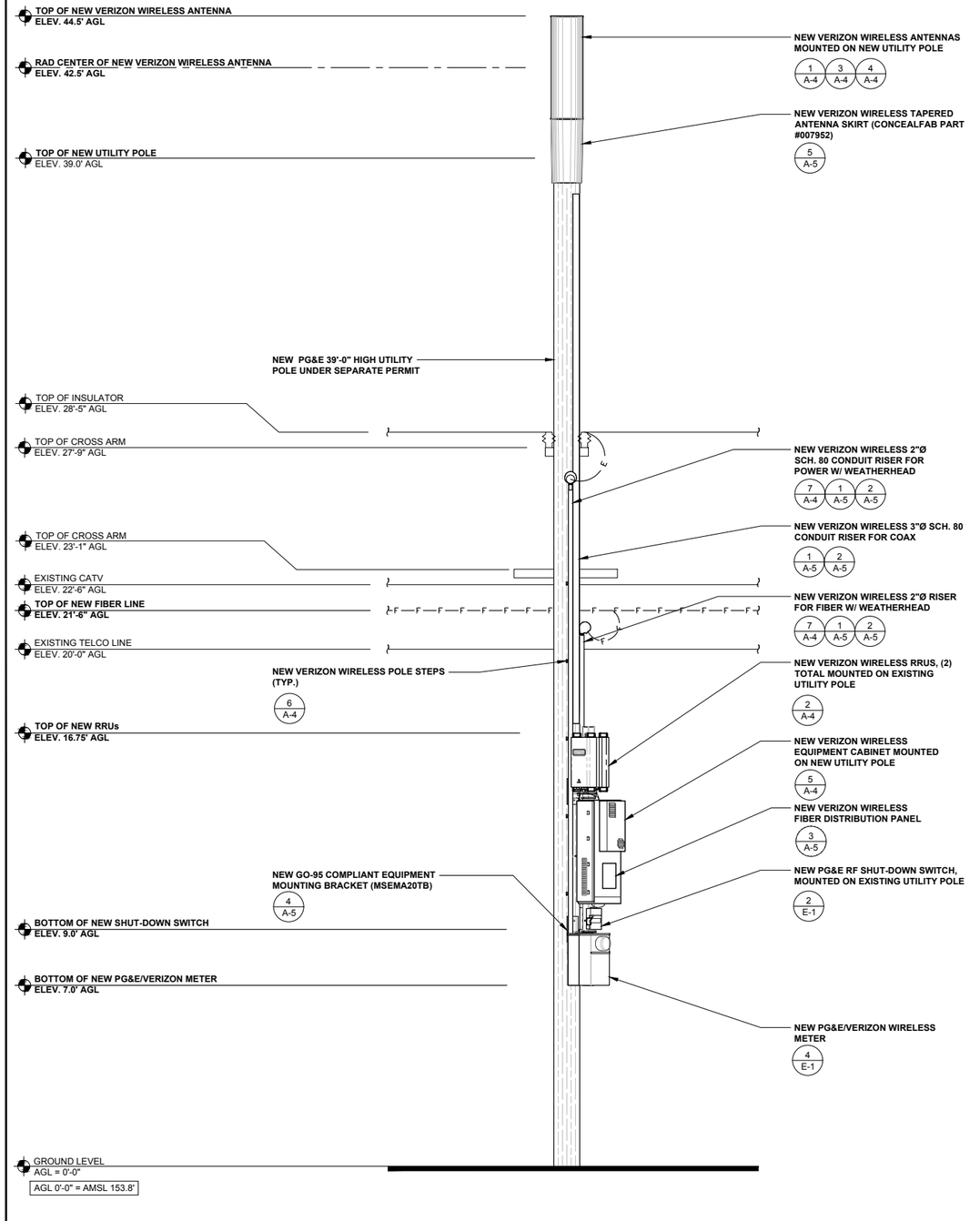
A-2

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



NORTH ELEVATION

0 1' 2' 3' SCALE: 3/8" = 1'-0" (24x36) (OR) 3/16" = 1'-0" (11x17) **2**



WEST ELEVATION

0 1' 2' 3' SCALE: 3/8" = 1'-0" (24x36) (OR) 3/16" = 1'-0" (11x17) **1**

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36" SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/05/18	90% CONSTRUCTION	FR
1	11/27/18	100% CONSTRUCTION	FR

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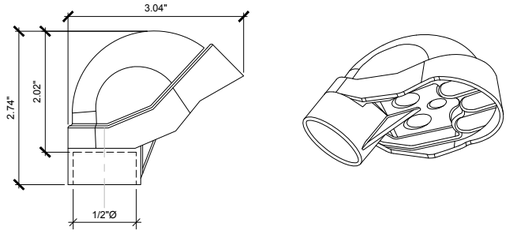
verizon

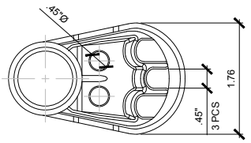
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WALNUT CREEK, CA 94598

CC SEASIDE 004
PSL # 473028
1431 WARING ST
SEASIDE, CA 93955

SHEET TITLE:
NORTH & WEST ELEVATIONS

A-3



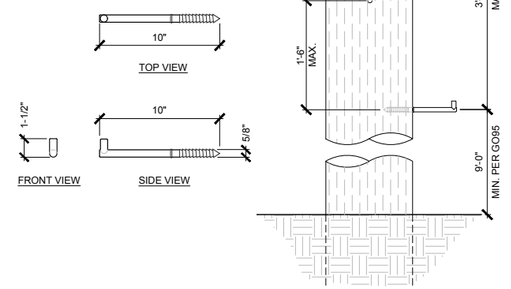


CARLON 1/2" PVC SERVICE ENTRANCE CAP
MODEL: E998D
MATERIAL: NON-METALLIC GRAY PVC

WEATHERHEAD DETAIL

SCALE N.T.S. — 7

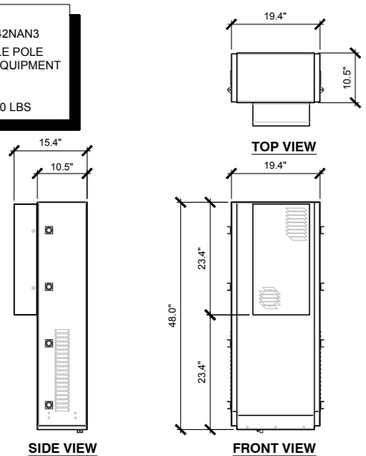
MACLEAN POWER SYSTEMS
5/8" X 10" STEP POLE
#J1118
MATERIAL: HOT ROLLED CARBON STEEL HOT DIP GALVANIZED PER ASTM A-153



POLE STEP DETAIL

SCALE N.T.S. — 6

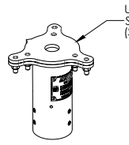
CHARLES CUBE-SC1042NAN3
LOW PROFILE POLE MOUNTED EQUIPMENT CABINET
WEIGHT: 280 LBS



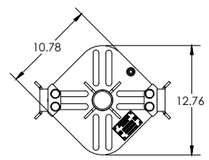
CABINET SPECIFICATIONS

SCALE N.T.S. — 5

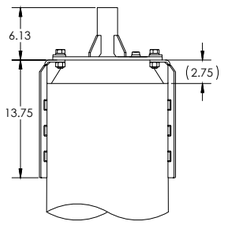
ITEM NO.	QTY.	PART NUMBER	REV.	DESCRIPTION
1	2	003167	N/A	
2	1	002905	A	MAST WELDMENT, 6" LG, BROWN
3	2	002795	A	ECCENTRIC WASHER PLATE, BROWN
4	4	002680	A	WASHER, SPLIT LOCK, 5/8", 18-8 SS, PAS
5	4	PER PLANS		
6	1	002951	A	BULL'S EYE PLASTIC VIAL LEVEL
7	1	002953	A	NAMEPLATE, LABEL, ADHESIVE BACKED



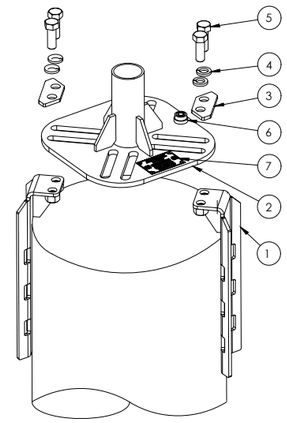
WEIGHT	27lbs (12.3kg)
HEIGHT	25-5/8" (651mm)
WIDTH	12.76" (324mm)
LENGTH	12.76" (324mm)



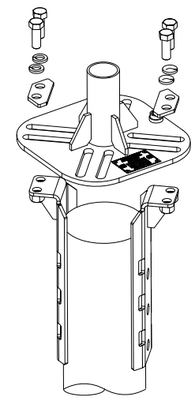
SCALE 1 : 8



SCALE 1 : 8



ARRANGEMENT FITS POLES 7-1/8" Ø TO 14-1/8" Ø



ALTERNATIVE LEG ARRANGEMENT TO FIT SMALLER POLES 5-1/4" Ø TO 7-1/8" Ø

ConcealFab Corporation
3275 FILLMORE RIDGE HEIGHTS
COLORADO SPRINGS, CO 80907
PH: 719-599-3400 FX: 719-599-0057

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Project: RD-14-0703 POLE TOP EXTENSION

Drawn By:	Date:	Ckd By:	Date:
JGL	07/30/14	DOC	07/30/14

Rev:	Date:	Description:	Apd:
A	07/30/14	NEW RELEASE	DOC
B	09/17/14	SLOTS ADDED	DOC
C	06/26/15	SLOTS WIDENED	DOC

DO NOT SCALE DWG

DIMENSIONS ARE IN INCHES
DECIMAL X.X ± 0.050, X.XX ± 0.020, X.XXX ± 0.010 | ANGLE FRACTION X ±1°, X.X ± 0.5° ±1/16"

Consultant:

Consultant:

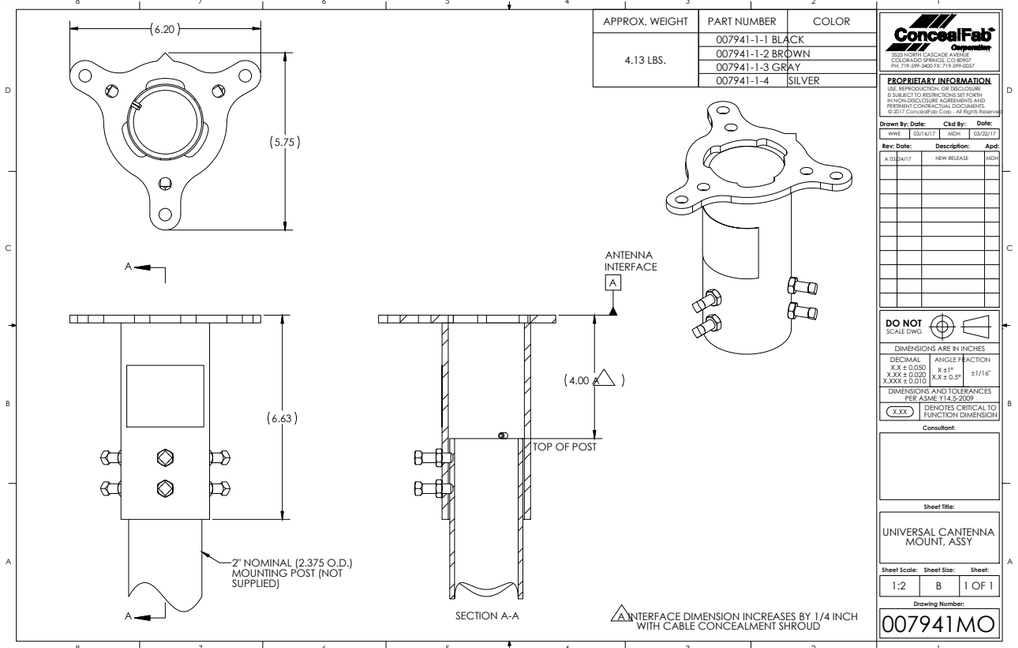
Sheet Title: WIDE DIA. POLE TOP MOUNTING BRACKET, BROWN

Sheet Scale:	Sheet:	Rev:
1:5	1 OF 1	C

Drawing / Part Number: 003002

UNIVERSAL ANTENNA MOUNT ASSEMBLY

SCALE N.T.S. — 3



APPROX. WEIGHT	PART NUMBER	COLOR
4.13 LBS.	007941-1-1	BLACK
	007941-1-2	BROWN
	007941-1-3	GRAY
	007941-1-4	SILVER

ConcealFab Corporation
3025 NORTH CASCADE AVENUE
COLORADO SPRINGS, CO 80907
PH: 719-599-3400 FX: 719-599-0057

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Drawn By:	Date:	Ckd By:	Date:
WWE	03/16/17	MDH	03/22/17

Rev:	Date:	Description:	Apd:
A	03/24/17	NEW RELEASE	MDH

DO NOT SCALE DWG

DIMENSIONS ARE IN INCHES
DECIMAL X.X ± 0.050, X.XX ± 0.020, X.XXX ± 0.010 | ANGLE FRACTION X ±1°, X.X ± 0.5° ±1/16"

DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009
(X.XX) DENOTES CRITICAL TO FUNCTION DIMENSION

Consultant:

Sheet Title: UNIVERSAL CANTENNA MOUNT, ASSY

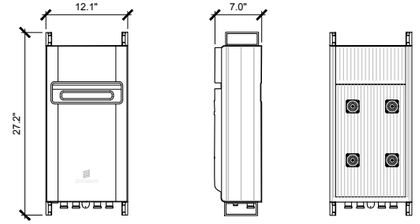
Sheet Scale:	Sheet Size:	Sheet:
1:2	B	1 OF 1

Drawing Number: 007941MO

POLE-TOP MOUNTING BRACKET

SCALE N.T.S. — 4

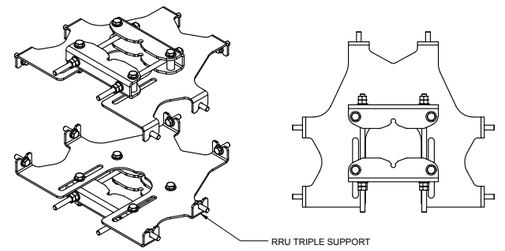
ERICSSON RRUS 32 B30
DIMENSIONS:
HEIGHT: 27.2"
WIDTH: 12.1"
DEPTH: 7.0"
WEIGHT: 60 LBS



MAFI 4019-3: TRIPLE RRU SUPPORT KIT

TRIPLE RRU SUPPORT IN STEEL FOR INSTALLATION OF THREE RRUs WITH POSSIBILITY TO ATTACHED A PSU ON THE BACK

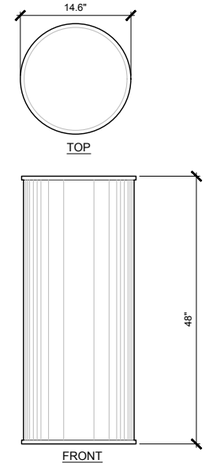
PARTS	MATERIAL	QTY
CLAMPS	S355MC FZV	4
THREADED RODS	8.8 FZV	4
BOLTS M10	8.8 FZV	8
FLANGE BOLTS M10	A4	8
BUSHINGS	S355J2H	4
NUTS M10	8.8 FZV	28
WASHERS	FZV	20



RRUS & TRIPLE MOUNT DETAIL

SCALE N.T.S. — 2

AMPHENOL CUUT360X12Fxyz0
LENGTH: 48"
DIAMETER: 14.6"
WEIGHT: 38.1 LBS



ANTENNA DETAIL

SCALE N.T.S. — 1

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/05/18	90% CONSTRUCTION	FR
1	11/27/18	100% CONSTRUCTION	FR

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SAC AE DESIGN GROUP, INC.
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SAN DIEGO, CA 92122
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WALNUT CREEK, CA 94598

CC SEASIDE 004
PSL # 473028
1431 WARING ST
SEASIDE, CA 93955

SHEET TITLE:
DETAILS

A-4

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

NOT USED

SCALE N.T.S. 9

NOT USED

SCALE N.T.S. 8

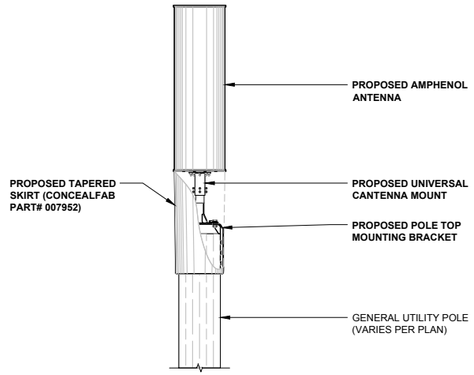
NOT USED

SCALE N.T.S. 7

NOT USED

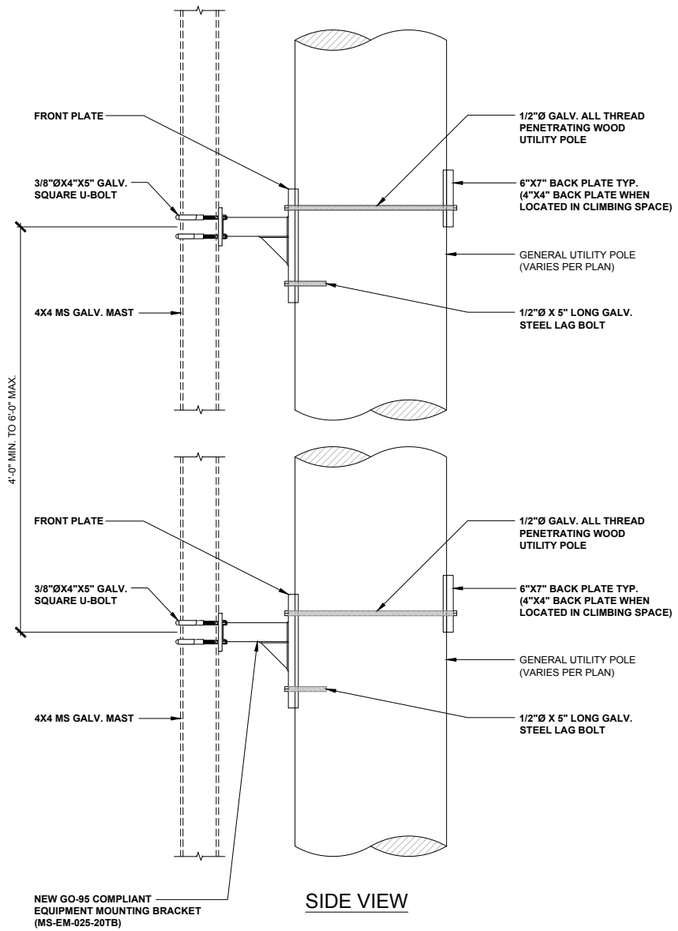
SCALE N.T.S. 6

TAPERED SKIRT DETAIL



SCALE N.T.S. 5

EQUIPMENT MOUNTING BRACKET DETAIL (MEXSAL MS-EM-025-20TB)



SCALE N.T.S. 4

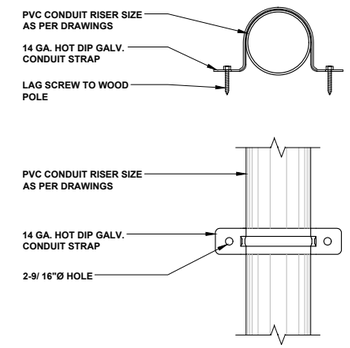
PULL BOX DETAIL



AWM-12		
CAPACITY	6-PACK DUPLEX SC OR LC: 12 FIBERS	AVAILABLE AS A SINGLE OR DUAL DOOR ENCLOSURE
DIMENSION	HEIGHT	8.54"
	WIDTH	10"
	DEPTH	2.88"

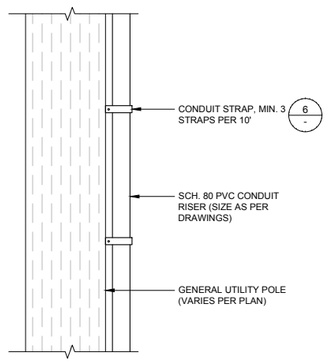
SCALE N.T.S. 3

CONDUIT RISER STRAP DETAIL



SCALE N.T.S. 2

CONDUIT RISER DETAIL



SCALE N.T.S. 1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36" SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/05/18	90% CONSTRUCTION	FR
1	11/27/18	100% CONSTRUCTION	FR

SAC WIRELESS
SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

PROPRIETARY INFORMATION

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ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

verizon

2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 004
PSL # 473028
1431 WARING ST
SEASIDE, CA 93955

SHEET TITLE:

DETAILS

A-5

NOT USED

SCALE N.T.S. | 5

NOTE:
POWER PLAN: PG&E DRAWINGS PENDING

POWER PLAN

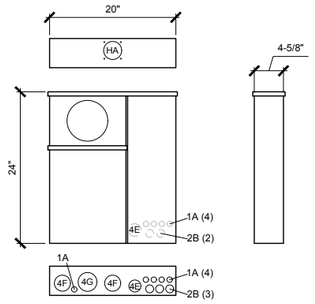
SCALE N.T.S. | 3

METER DETAIL

SCALE N.T.S. | 4

U214MTBL : METER MAIN LOAD CENTER - OVERHEAD / UNDERGROUND - SURFACE MOUNT

MAIN DISC.	PROV.	AIC RATING	AMPACITY MAX.	AMPACITY CONT.	VOLT-AGE	SERVICE TYPE	# OF JAWS	HUB PROV.	PHASE CONDUCTOR LINE	PHASE CONDUCTOR LOAD	NEUTRAL CONDUCTOR	LOAD CENTER
(1) 100A 2P CB	NONE	10K	100	100	120/240	1Ø 3W	4	AW	14 AWG - 2/0 AWG	MAIN CIRCUIT BREAKER	14 AWG - 1/0 AWG	12/24

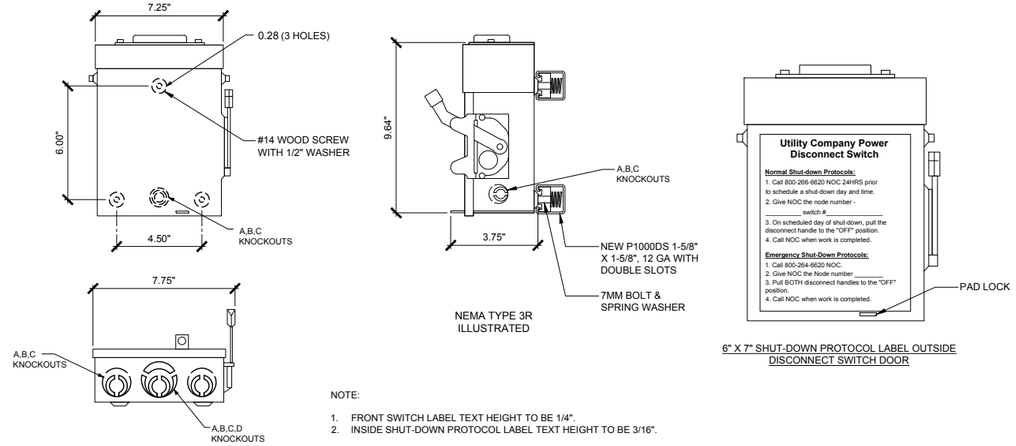


U214MTBL
OVERHEAD / UNDERGROUND - SURFACE MOUNT

KNOCKOUTS - CONDUIT SIZES	
1A	½"
2B	¾" - ½"
4E	1 ½" - 1 ¼" - 1" - ¾"
4F	2" - 1 ½" - 1 ¼" - 1"
4G	2 ½" - 2" - 1 ½" - 1 ¼"
HA	AW HUB

RF SHUT-DOWN SWITCH DETAIL (3-POLE)

SCALE N.T.S. | 2



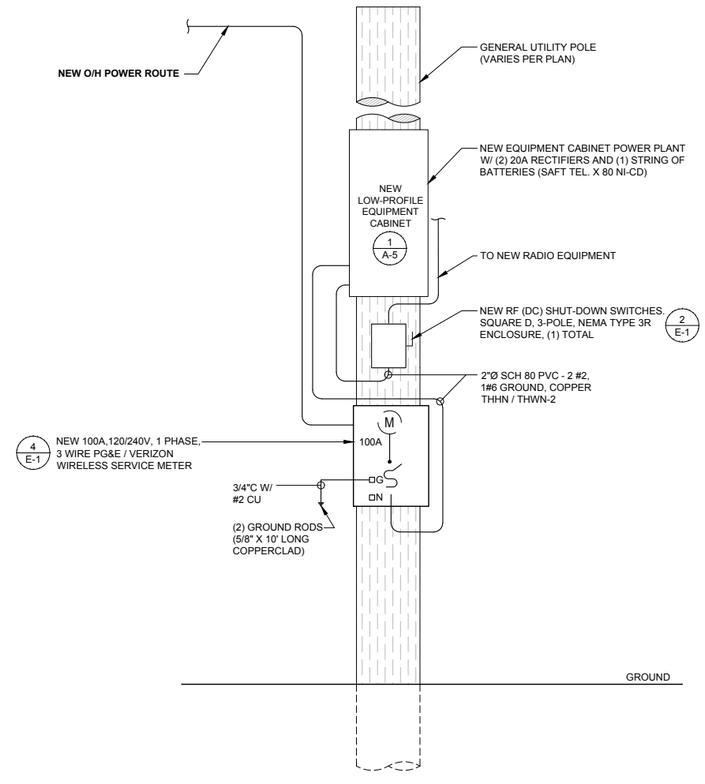
NOTE:

1. FRONT SWITCH LABEL TEXT HEIGHT TO BE 1/4".
2. INSIDE SHUT-DOWN PROTOCOL LABEL TEXT HEIGHT TO BE 3/16".

NOTE:
PENDING PG&E POWER DESIGN

POWER 1 LINE DIAGRAM

SCALE N.T.S. | 1



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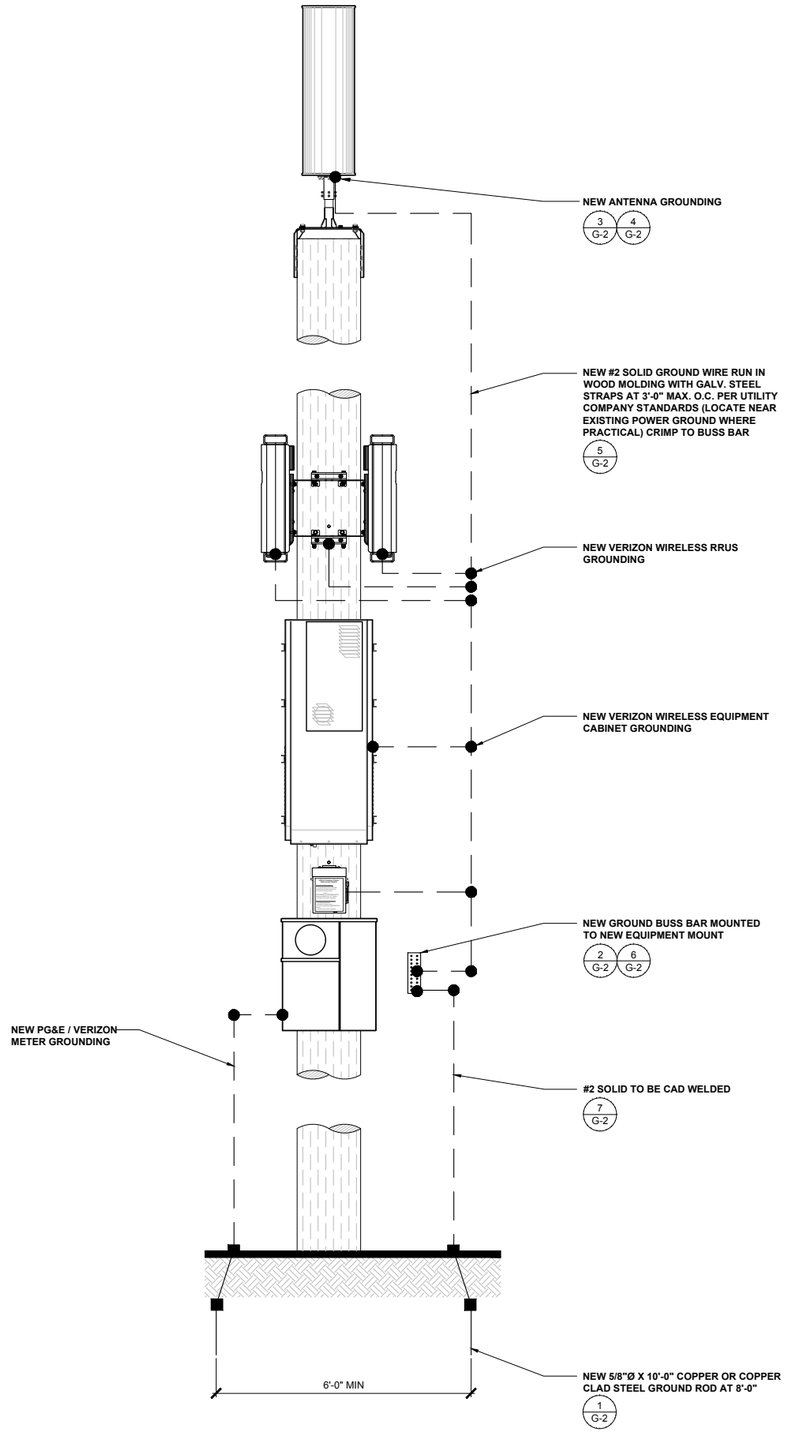
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 004
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1431 WARING ST
SEASIDE, CA 93955

SHEET TITLE:
POWER 1 LINE DIAGRAM & DETAILS

E-1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36" SCALE RATIO (IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



EQUIPMENT GROUNDING
ELEVATION (TYPICAL)

NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. GROUND BARS:
   A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
   B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
6. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
7. ALL NEW GROUNDING LEAD CONDUCTORS SHALL BE #2 SOLID TINNED BARE COPPER.
8. NEW GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS.
9. NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE CONDITIONS.
10. CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROC OR APPROVED EQUAL, WHEN REQUIRED.
11. ALL NEW GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE VERIZON WIRELESS STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.

GROUNDING NOTES | SCALE N.T.S. | 2

ANTENNA & EQUIPMENT GROUNDING PLAN | SCALE N.T.S. | 1

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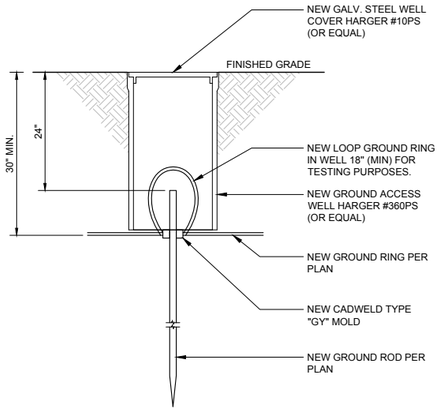
verizon

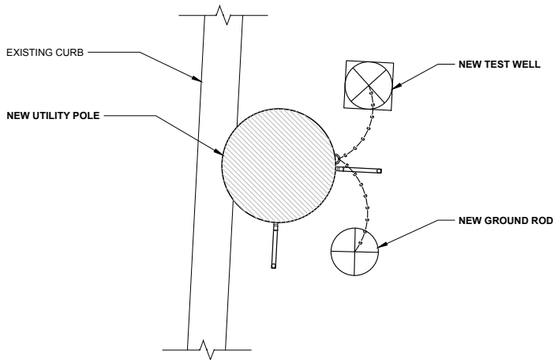
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SHEET TITLE:
GROUNDING PLAN & NOTES

G-1

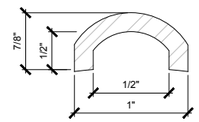




TEST WELL DETAIL

SCALE N.T.S. 8

DIS-TRAN GROUND WIRE MOLDING
MODEL: DT-GWM-O1
MATERIAL: OAK
LENGTH SECTION: 8'-0" WEIGHT: 1.7 LBS

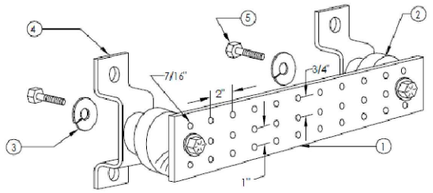


PRESERVATIVE TREATMENT

UNLESS OTHERWISE SPECIFIED, ALL GWM ARE PRESSURE TREATED ACCORDING TO THE AMERICAN WOOD PRESERVERS' ASSOCIATION STANDARDS, WITH PENTACHLOROPHENOL IN HEAVY HYDROCARBON SOLVENT PER AWPA, P-8, P-9 TYPE A.

GROUND WIRE MOLDING DETAIL

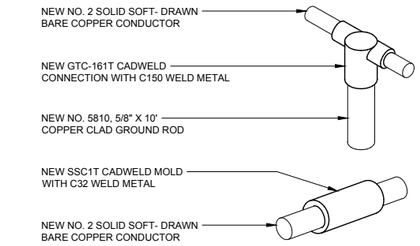
SCALE N.T.S. 5

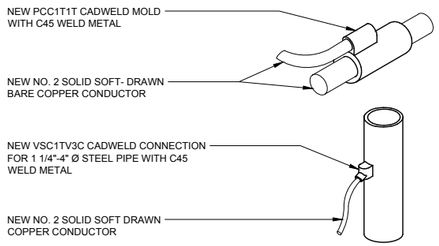


1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL.
3. 5/16" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT NO. 3015-8 OR APPROVED EQUAL.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6065 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL.
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO STRUCTURE AND BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

BUS BAR DETAIL

SCALE N.T.S. 2

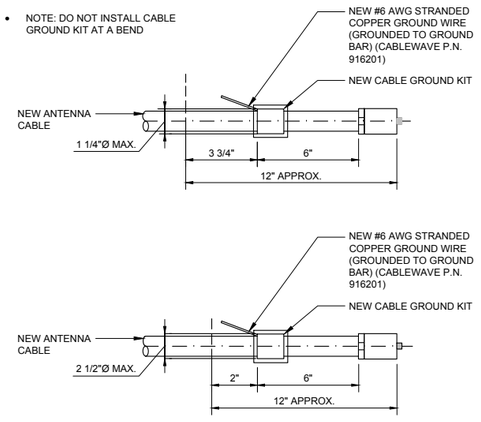




CADWELDS

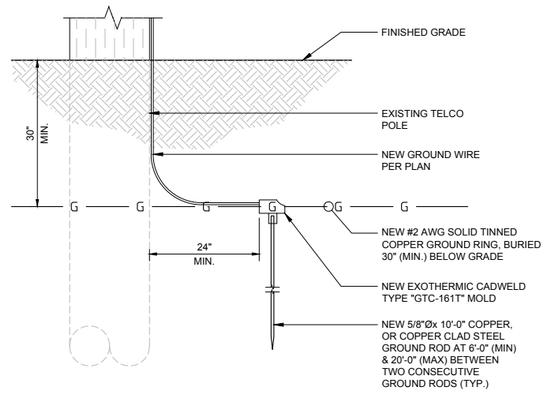
SCALE N.T.S. 7

- NOTE: DO NOT INSTALL CABLE GROUND KIT AT A BEND



ANTENNA GROUND KIT

SCALE N.T.S. 4



GROUND RODS (GROUND ELECTRODES):
GROUND RODS ON THE COMMUNICATION MESSENGER SYSTEM(S) SHALL CONFORM TO EACH OF THE FOLLOWING REQUIREMENTS.

A. GROUND RODS SHALL BE CORROSION-RESISTING METAL RODS OR PIPES (OR EQUIVALENT IN ELECTRICAL PROPERTIES)

B. GROUND RODS SHALL NOT BE LESS THAN 5/8-INCH IN DIAMETER BY 10 FEET (TOTAL) IN LENGTH; THIS MAY INCLUDE TWO (2) FIVE-FOOT JOINED SECTIONS.

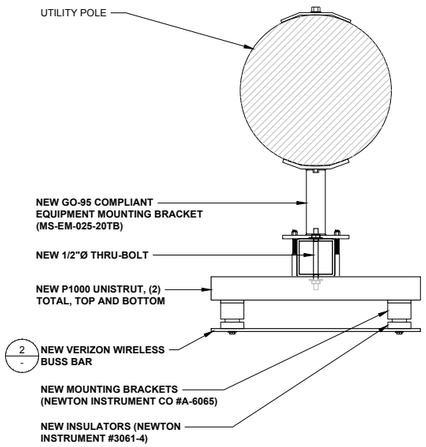
C. GROUND RODS SHALL BE DRIVEN INTO THE GROUND SO THAT ON ONE END OF THE GROUND ROD IS AT MINIMUM DEPTH OF 8 FEET BELOW THE SURFACE OF THE GROUND. THE TOP END OF THE GROUND ROD SHALL NOT BE LESS THAN 1 FOOT BELOW THE SURFACE OF THE GROUND.

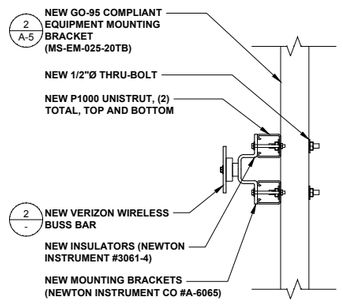
D. POLE-BUTT PLATES OR WRAPPINGS SHALL NOT BE USED EITHER IN LIEU OF THE AFORESAID GROUND RODS OR PIPES, OR AS ELECTRODES SUPPLEMENTARY THERETO.

E. THE DRIVEN GROUND ROD(S), PIPE(S), OR EQUIVALENT SHALL BE LOCATED 24 INCHES OR MORE FROM THE SURFACE OF THE POLE.

GROUND ROD DETAIL

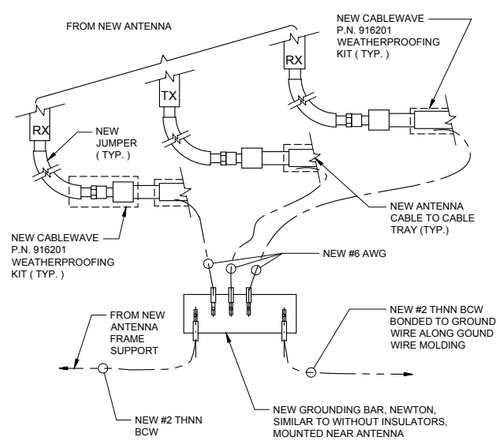
SCALE N.T.S. 1





BUS BAR MOUNTING DETAIL

SCALE N.T.S. 6



ANTENNA GROUND DETAIL

SCALE N.T.S. 3

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WALNUT CREEK, CA 94598

CC SEASIDE 004
PSL # 473028
1431 WARING ST
SEASIDE, CA 93955

SHEET TITLE:
GROUNDING DETAILS

G-2

verizon

CC SEASIDE 002
PSL # 473025

1268 YOSEMITE ST
SEASIDE, CA 93955

CALL 811
WWW.CALL811.COM
CONTRACTOR TO CALL TO VERIFY UTILITIES AT LEAST TWO WORKING DAYS PRIOR TO DIGGING

811 Know what's **below.** **Call** before you dig.

PROJECT TEAM

SITE ACQUISITION
SAC WIRELESS, LLC.
1851 HERITAGE LANE
SUITE 182
SACRAMENTO, CA 95815
CONTACT: KRISTINA DEMOLLI
TELEPHONE: (916) 600-9610
KRISTINA.DEMOLLI@SACW.COM

PLANNING
TEK CONSULTING INC.
PERMIT PROCESSING SERVICES
123 SEACLIFF DR
PISMO BEACH, CA 93449
CONTACT: TRICIA KNIGHT
TELEPHONE: (805) 448-4221
FAX: (805) 888-2807
TEK-CONSULTING.NET

ARCHITECT:
SAC WIRELESS, LLC.
NESTOR POPOWYCH, AIA
5015 SHOREHAM PLACE SUITE 150
SAN DIEGO, CA 92122
CONTACT: OMAR MUNOZ
TELEPHONE: (619) 736-3588
FAX: (760) 931-0908
OMAR.MUNOZ@SACW.COM

SURVEYOR:
SMITHCO SURVEYING ENGINEERING
P.O. BOX 81626
BAKERSFIELD, CA 93380
CONTACT: GREG SMITH, PLS
TELEPHONE: (661) 393-1217

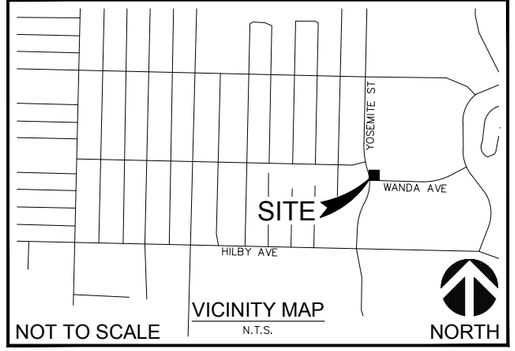
UTILITY COORDINATOR:
SAC WIRELESS, LLC.
1057 LA VISTA ROAD
SANTA BARBARA, CA 93110
CONTACT: CRAIG ENGEL
TELEPHONE: (805) 440-0038

VERIZON WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
CONSTRUCTION:		
RADIO:		
MICROWAVE:		
TELCO:		
EQUIPMENT:		
PROJECT ADMINISTRATOR:		
WO ADMINISTRATOR:		

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

VICINITY MAP



DRIVING DIRECTIONS

FROM: 2785 MITCHELL DR.
WALNUT CREEK, CA 94958

TO: 1268 YOSEMITE ST
SEASIDE, CA 93955

1. HEAD SOUTH TOWARD SHADELANDS DRIVE
2. TURN RIGHT ONTO SHADELANDS DRIVE
3. TURN LEFT ONTO N WIDGET LANE
4. TURN RIGHT ONTO YGNACIO VALLEY ROAD
5. TURN RIGHT ONTO BANCROFT ROAD
6. USE THE LEFT 2 LANES TO TURN LEFT ONTO TREAT BOULEVARD
7. TURN RIGHT ONTO N MAIN STREET
8. TURN RIGHT ONTO THE INTERSTATE 680 S RAMP TO OAKLAND/SAN JOSE
9. MERGE ONTO I-680 S
10. USE THE RIGHT 3 LANES TO MERGE ONTO US-101 S TOWARD LOS ANGELES
11. TAKE EXIT 336 TOWARD MONTERYE/PENINSULA
12. MERGE ONTO CA-156 W
13. MERGE ONTO CA-1 S
14. TAKE EXIT 404 FOR FREMONT BLVD/DEL MONTE BLVD
15. CONTINUE ONTO FREMONT BLVD
16. TURN LEFT ONTO ORD GROVE AVENUE
17. TURN RIGHT ONTO YOSEMITE STREET
18. DESTINATION WILL BE ON THE LEFT

PROJECT DESCRIPTION

THIS PROJECT IS A VERIZON WIRELESS UNMANNED TELECOMMUNICATION WIRELESS FACILITY. IT WILL CONSIST OF THE FOLLOWING:

- (1) NEW 20' (AGL) POLE BY PG&E UNDER SEPARATE PERMIT
- (1) NEW ANTENNA
- (1) NEW EQUIPMENT CABINET
- (1) RF SHUT DOWN SWITCH
- (2) NEW RRU'S
- (1) NEW FIBER DISTRIBUTION PANEL
- (2) NEW UTILITY PULLBOXES
- (1) NEW PG&E / VERIZON WIRELESS METER PEDESTAL
- NEW 5' HIGH CHAIN-LINK FENCE

PROJECT SUMMARY

APPLICANT/LESSEE
verizon
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598
OFFICE: (925) 279-6000

APPLICANT'S REPRESENTATIVE
TEK CONSULTING INC.
PERMIT PROCESSING SERVICES
123 SEACLIFF DR
PISMO BEACH, CA 93449
CONTACT: TRICIA KNIGHT
TELEPHONE: (805) 448-4221
FAX: (805) 888-2807
TEK-CONSULTING.NET

POLE OWNER:
OWNER: N/A
CONTACT: N/A
PHONE #: —
EMAIL: ---

PROPERTY INFORMATION:
SITE NAME: CC SEASIDE 002
SITE NUMBER: 473025
SITE ADDRESS: 1268 YOSEMITE ST SEASIDE, CA 93955
JURISDICTION: CITY OF SEASIDE

ASSESSOR'S PARCEL NUMBER
PUBLIC RIGHT-OF-WAY

GEODETIC COORDINATES
LAT. 36° 36' 13.8558" N. NAD 83
LONG. 121° 49' 48.1332" W. NAD 83
ELEV. 209.7' NAVD 88 (BASIS OF DRAWING)

CONSTRUCTION INFORMATION

OCCUPANCY:	U
TYPE OF CONSTRUCTION:	V-B
CURRENT ZONING:	R.O.W.
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2016 CALIFORNIA ADMINISTRATIVE CODE
- 2016 CALIFORNIA BUILDING CODES
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA FIRE CODE
- 2016 CALIFORNIA ENERGY CODE
- CITY & COUNTY ORDINANCES

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	1
T-2	RF SIGNAGE DETAIL, NOTES, LEGEND & ABBREVIATIONS	1
T-3	GENERAL NOTES & SPECIFICATIONS	1
C-1	SITE SURVEY	0
A-1	SITE PLAN	1
A-2	ENLARGED SITE PLAN, EQUIPMENT & ANTENNA LAYOUT	1
A-3	EXISTING NORTHEAST & NORTHWEST ELEVATIONS	1
A-4	DETAILS	1
A-5	DETAILS	1
E-1	POWER 1 LINE DIAGRAM, DETAILS & NOTES	1
G-1	GROUNDING PLAN & NOTES	1
G-2	GROUNDING DETAILS	1

CONSTRUCTION DRAWINGS

SAC WIRELESS SIGNATURE BLOCK

DISCIPLINE:	SIGNATURE:	DATE:
SITE ACQUISITION:		
PLANNER:		
CONSTRUCTION:		
LANDLORD:		

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PSL # 473025
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SEASIDE, CA 93955

SHEET TITLE:

T-1

GENERAL FIRE NOTES: (SFM)

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2013 CFC SECTION 1401.
2. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. [2013 CFC SECTION 505.1]
3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. [2013 CFC SECTION 807-1.2]
4. PORTABLE FIRE EXTINGUISHERS:
   AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. [2013 CFC SECTION 906.1.1 AND SECTION 906.3.1)]

NOTES 3

- NEW ANTENNA
- EXISTING ANTENNA
- GROUND ROD
- GROUND BUS BAR
- MECHANICAL GRND. CONN.
- CADWELD
- GROUND ACCESS WELL
- ELECTRIC BOX
- TELEPHONE BOX
- LIGHT POLE
- FND. MONUMENT
- SPOT ELEVATION
- SET POINT
- REVISION
- UTILITY POLE
- ANTENNA (CANTENNA)
- SEWER MANHOLE
- SIGNAGE (TRAFFIC)
- PROPERTY/LEASE LINE
- CENTERLINE
- MATCH LINE
- WORK POINT
- GROUND CONDUCTOR
- GRID REFERENCE
- DETAIL REFERENCE
- ELEVATION REFERENCE
- SECTION REFERENCE
- WOOD CONT.
- WOOD BLOCKING
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- GROUT OR PLASTER
- PLYWOOD
- SAND
- STEEL
- EXISTING CHAIN-LINK FENCING
- NEW CHAIN-LINK FENCING
- WROUGHT IRON FENCING
- WOOD FENCING
- E — ELECTRICAL CONDUIT (POWER)
- OH/E — OVERHEAD ELECTRICAL (POWER)
- UG/E — UNDERGROUND ELECTRICAL (POWER)
- T — TELEPHONE CONDUIT
- OH/T — OVERHEAD TELCO
- UG/T — UNDERGROUND TELCO
- E/T — ELECTRICAL / TELCO CONDUIT (POWER & FIBER)
- OH/ET — OVERHEAD POWER & TELCO
- UG/ET — UNDERGROUND POWER & TELCO
- CC — COAXIAL CABLE
- F — FIBER / HYBRID
- E/F — POWER / FIBER

LEGEND 2

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
A.B.	ANCHOR BOLT	FAB.	FABRICATION(OR)	PWR.	POWER (CABINET)
ABV.	ABOVE	F.F.	FINISH FLOOR	QTY.	QUANTITY
ACCA	ANTENNA CABLE COVER ASSEMBLY	F.G.	FINISH GRADE	RAD.(R)	RADIUS
ADDL	ADDITIONAL	FIN.	FINISH(ED)	REF.	REFERENCE
A.F.F.	ABOVE FINISHED FLOOR	FLR.	FLOOR	REINF.	REINFORCEMENT(ING)
A.F.G.	ABOVE FINISHED GRADE	FDN.	FOUNDATION	REQ'D.	REQUIRED
ALUM.	ALUMINUM	F.O.C.	FACE OF CONCRETE	RGS.	RIGID GALVANIZED STEEL
ALT.	ALTERNATE	F.O.M.	FACE OF MASONRY	SCH.	SCHEDULE
ANT.	ANTENNA	F.O.S.	FACE OF STUD	SHT.	SHEET
APPRX.	APPROXIMATE(LY)	F.O.W.	FACE OF WALL	SIM.	SIMILAR
ARCH.	ARCHITECT(URAL)	F.S.	FINISH SURFACE	SPEC.	SPECIFICATION(S)
AWG.	AMERICAN WIRE GAUGE	FT.(')	FOOT(FEET)	SQ.	SQUARE
BLDG.	BUILDING	FTG.	FOOTING	S.S.	STAINLESS STEEL
BLK.	BLOCK	G.	GROWTH (CABINET)	STD.	STANDARD
BLKG.	BLOCKING	GA.	GAUGE	STL.	STEEL
BM.	BEAM	GI.	GALVANIZE(D)	STRUC.	STRUCTURAL
B.N.	BOUNDARY NAILING	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	TEMP.	TEMPORARY
BTCW.	BARE TINNED COPPER WIRE	GLB.(GLU-LAM)	GLUE LAMINATED BEAM	THK.	THICK(NESS)
B.O.F.	BOTTOM OF FOOTING	GPS	GLOBAL POSITIONING SYSTEM	T.N.	TOE NAIL
B/U	BACK-UP CABINET	GRND.	GROUND	T.O.A.	TOP OF ANTENNA
CAB.	CABINET	HDR.	HEADER	T.O.C.	TOP OF CURB
CANT.	CANTILEVER(ED)	HGR.	HANGER	T.O.F.	TOP OF FOUNDATION
C.I.P.	CAST IN PLACE	HT.	HEIGHT	T.O.P.	TOP OF PLATE (PARAPET)
CLG.	CEILING	ICGB.	ISOLATED COPPER GROUND BUS	T.O.S.	TOP OF STEEL
CLR.	CLEAR	IN.(")	INCH(ES)	T.O.W.	TOP OF WALL
COL.	COLUMN	INT.	INTERIOR	TYP.	TYPICAL
CONC.	CONCRETE	LB.(#)	POUND(S)	U/G	UNDER GROUND
CONN.	CONNECTION(OR)	L.B.	LAG BOLTS	U.L.	UNDERWRITERS LABORATORY
CONST.	CONSTRUCTION	L.F.	LINEAR FEET (FOOT)	U.N.O.	UNLESS NOTED OTHERWISE
CONT.	CONTINUOUS	L.	LONG(ITUDINAL)	V.I.F.	VERIFY IN FIELD
d	PENNY (NAILS)	MAS.	MASONRY	W	WIDE(WIDTH)
DBL.	DOUBLE	MAX.	MAXIMUM	W/	WITH
DEPT.	DEPARTMENT	M.B.	MACHINE BOLT	WD.	WOOD
D.F.	DOUGLAS FIR	MECH.	MECHANICAL	W.P.	WEATHERPROOF
DIA.	DIAMETER	MFR.	MANUFACTURER	WT.	WEIGHT
DIAG.	DIAGONAL	MIN.	MINIMUM	℄	CENTERLINE
DIM.	DIMENSION	MISC.	MISCELLANEOUS	ℙ	PLATE
DWG.	DRAWING(S)	MTL.	METAL		
DWL.	DOWEL(S)	(N)	NEW		
EA.	EACH	NO.(#)	NUMBER		
EL.	ELEVATION	N.T.S.	NOT TO SCALE		
ELEC.	ELECTRICAL	O.C.	ON CENTER		
ELEV.	ELEVATOR	OPNG.	OPENING		
EMT.	ELECTRICAL METALLIC TUBING	P/C	PRECAST CONCRETE		
E.N.	EDGE NAIL	PCS	PERSONAL COMMUNICATION SERVICES		
ENG.	ENGINEER	PLY.	PLYWOOD		
EQ.	EQUAL	PPC	POWER PROTECTION CABINET		
EXP.	EXPANSION	PRC	PRIMARY RADIO CABINET		
EXST.(E)	EXISTING	P.S.F.	POUNDS PER SQUARE FOOT		
EXT.	EXTERIOR	P.S.I.	POUNDS PER SQUARE INCH		

ABBREVIATIONS 1



TYPICAL CAUTION SIGN

RF CAUTION SIGNAGE 4

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE IN FIGURE IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/03/18	90% CONSTRUCTION	FR
1	12/05/18	100% CONSTRUCTION	FR

SAC WIRELESS
SAC AE DESIGN GROUP, INC.
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SAN DIEGO, CA 92122
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2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 002
PSL # 473025
1268 YOSEMITE ST
SEASIDE, CA 93955

SHEET TITLE:
NOTES, LEGEND & ABBREVIATIONS

T-2

GENERAL

1. THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS U [2016 CBC, TITLE 24, PART 2, VOLUME 1, SECTION 312.].
2. THIS FACILITY IS EXEMPT FROM ACCESSIBILITY REQUIREMENTS PER 2016 CBC SECTION 11B-203.5 THIS FACILITY IS NON-OCCUPIABLE SPACE & ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BIDS, & PROCEEDING WITH ANY WORK.
4. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER & SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT.
5. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, & TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
7. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, & BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, & TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
10. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. & ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, & 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
11. THE CONTRACTOR & SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL & STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
12. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
13. THE CONTRACTOR SHALL SUPERVISE & COORDINATE ALL WORK, USING HIS/HER PROFESSIONAL KNOWLEDGE & SKILLS. HE/SHE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCING & COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN & PAY FOR ALL PERMITS, LICENSES & INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT & MAKE FINAL PAYMENT OF SAID DOCUMENT.
15. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
17. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
18. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL & PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
19. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
20. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
21. ALL GENERAL NOTES & STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
22. ALL DEBRIS & REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
23. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING & CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
24. ALL SYMBOLS & ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

CONCRETE

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS OTHERWISE NOTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" & ALL HOOKS SHALL BE STANDARD U.N.O.
2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.
3. BARS NOTED "CONT.", TYPICAL WALL REINFORCING, & VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL 40 BAR DIAMETERS LAP, OR 24" WHICHEVER IS GREATER.
4. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICE AT OTHER LOCATIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
5. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED.
6. ALL REINFORCING, ANCHOR BOLTS & OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
7. #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
8. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE:

BELOW GRADE (UNFORMED)	3"	CLEAR
BELOW GRADE (FORMED)	2"	CLEAR
WALLS	1"	CLEAR
COLUMNS	1 1/2"	CLEAR
BEAMS & GIRDERS	1 1/2"	CLEAR
STRUCTURAL SLAB (ABOVE GRADE)	3/4"	CLEAR

CONCRETE (GENERAL)

1. STRUCTURAL FILL & BACKFILL SHOULD CONSIST OF A NON-EXPANSIVE GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER & PLACED IN UNIFORM 6" LIFTS.
2. STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
3. STRUCTURAL FILL UNDERNEATH FOUNDATIONS & SLABS SHALL BE COMPACTED WITH A SMOOTH VIBRATORY COMPACTION DEVICE PRIOR TO CONCRETE PLACEMENT.
4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CURRENT ACI 318.
5. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI. UNLESS OTHERWISE SPECIFIED. WATER CEMENTITIOUS MATERIAL/RATIO & AIR CONTENT SHALL COMPLY WITH ACI 318 SECTION 19.3.
6. CEMENT FOR CONCRETE OR MASONRY MORTAR SHALL BE TYPE V "PORTLAND CEMENT" & CONFORM TO ASTM C-150 STANDARDS. UNLESS OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT OR IN THE DRAWINGS.
7. AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C-33 STANDARDS.
8. CONCRETE SHALL BE DEPOSITED IN ACCORDANCE WITH 318 SECTION 26.5.2 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
9. COLD WEATHER & HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 19.3 & SECTIONS 26.5.4 & 26.5.5.
10. AFTER PLACEMENT, THE CONCRETE SHALL BE COVERED WITH A PLASTIC VAPOR BARRIER FOR A 4 TO 7 DAY INITIAL CURING PERIOD.
11. A MINIMUM OF THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN. ONE SHALL BE TESTED AT 7 DAYS, ONE AT 28 DAYS, & ONE HOLD CYLINDER. UNLESS OTHERWISE SPECIFIED BY GOVERNING AGENCY.
12. FLOOR SLABS SHALL CONFORM TO ASTM C-38 STANDARDS & SHALL BE 3 1/2 INCHES MINIMUM THICK - SEE FOUNDATION PLANS FOR REINFORCEMENT, BASE, UNDERLAYMENT, VAPOR BARRIER OR OTHER SPECIFIC REQUIREMENTS.
13. FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS. TOLERANCE: 1/8 INCH IN 10 FEET.
14. TOP OF CONCRETE SLAB TO BE 6" MINIMUM ABOVE FINISH GRADE. UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS
15. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
16. ALL EXTERIOR CONCRETE WALLS, PORCHES & PLATFORMS ON SITE TO HAVE A ROCK SALT FINISH. (U.O.N.)
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE PLACEMENT OF ALL ROUGH HARDWARE & ALL ITEMS OF OTHER TRADES REQUIRED TO BE EMBEDDED IN CONCRETE WORK.

METALS

STRUCTURAL FRAMING SYSTEM & EQUIPMENT

1. CABLE LADDERS AT INTERIOR SPACES WHERE INDICATED SHALL BE 1-1/2" SOLID BAR STRINGERS TYPE
2. ALL UNISTRUT SHALL BE P1000 (1-5/8").
3. MICROFLECT SHALL BE B 1 1 1 8 (U.N.O.) TO MATCH CABLE TRAY.
4. CABLE RUNS ON ROOF TOP & OUTDOOR APPLICATIONS, SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. ALL ANTENNA SPECS. PER RF DATA SHEET.

STRUCTURAL METAL

1. ALL STRUCTURAL STEEL SHALL COMPLY WITH MOST RECENT ASTM A-36 STANDARDS.
2. ALL CONNECTIONS & FABRICATIONS SHALL COMPLY WITH MOST RECENT A.I.S.C. SPECIFICATIONS.
3. ALL WELDING SHALL BE PERFORMED BY OPERATORS WHO HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN MOST RECENT "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY.
4. USE ALL MEANS NECESSARY TO PROTECT STRUCTURAL STEEL BEFORE, DURING & AFTER INSTALLATION & TO PROTECT THE INSTALLED WORK & MATERIALS OF ALL OTHER TRADES.
5. IN THE EVENT OF DAMAGE IMMEDIATELY MAKE ALL REPAIRS & REPLACEMENTS NECESSARY TO THE APPROVAL OF & AT NO ADDITIONAL COST TO THE OWNER.
6. HIGH-STRENGTH BOLTS SHALL COMPLY WITH ASTM A-325 N. BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE. OTHER MACHINE BOLTS & ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A-307
7. WELDS SHALL BE MADE WITH ASTM-233, E-70 SERIES ELECTRODES FOR STEEL TO STEEL CONNECTIONS. WELDING OF REINFORCING BARS SHALL BE DONE WITH ELECTRODES AS APPROVED BY A CERTIFIED TESTING LABORATORY.
8. ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAP, HANGER & OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO. OR APPROVED EQUIVALENT.
9. ALL EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZING AFTER FABRICATION.
10. ALL WELDING DONE AFTER GALVANIZING SHALL BE PROTECTED WITH TWO (2) COATS OF "GALVANIZED" OR "GALVALOY"

ELECTRICAL

1. REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION
2. ALL ELECTRIC WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE. (REFER TO THE COVER SHEET)
3. ALL INTERIOR SEISMIC UNISTRUT SHALL BE GROUNDED WITH #6 STRANDED COPPER WITH GREEN JACKET. ALL CONNECTIONS TO BE DOUBLE LUG.
4. BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION & DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT & IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REROUTING OF EXISTING LINES IS NECESSARY.

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/03/18	90% CONSTRUCTION	FR
1	12/05/18	100% CONSTRUCTION	FR

SAC WIRELESS
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WALNUT CREEK, CA 94598

CC SEASIDE 002
PSL # 473025
1268 YOSEMITE ST
SEASIDE, CA 93955

SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

T-3

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36" SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

NOTES:

OWNER(S): WITHIN PUBLIC RIGHT-OF-WAY

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF ANY PARCEL OF LAND, NOR DOES IT IMPLY OR INFER THAT A BOUNDARY SURVEY WAS PERFORMED. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION. PROPERTY LINES AND LINES OF TITLE WERE NEITHER INVESTIGATED NOR SURVEYED AND SHALL BE CONSIDERED APPROXIMATE ONLY. NO PROPERTY MONUMENTS WERE SET.

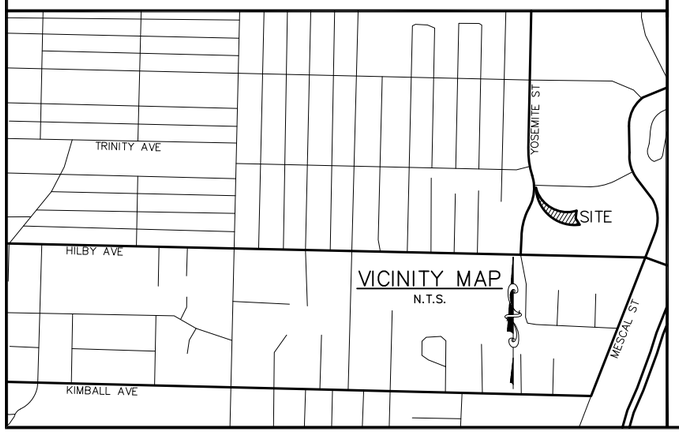
THE UNDERGROUND UTILITIES (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN LOCATED BY FIELD OBSERVATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

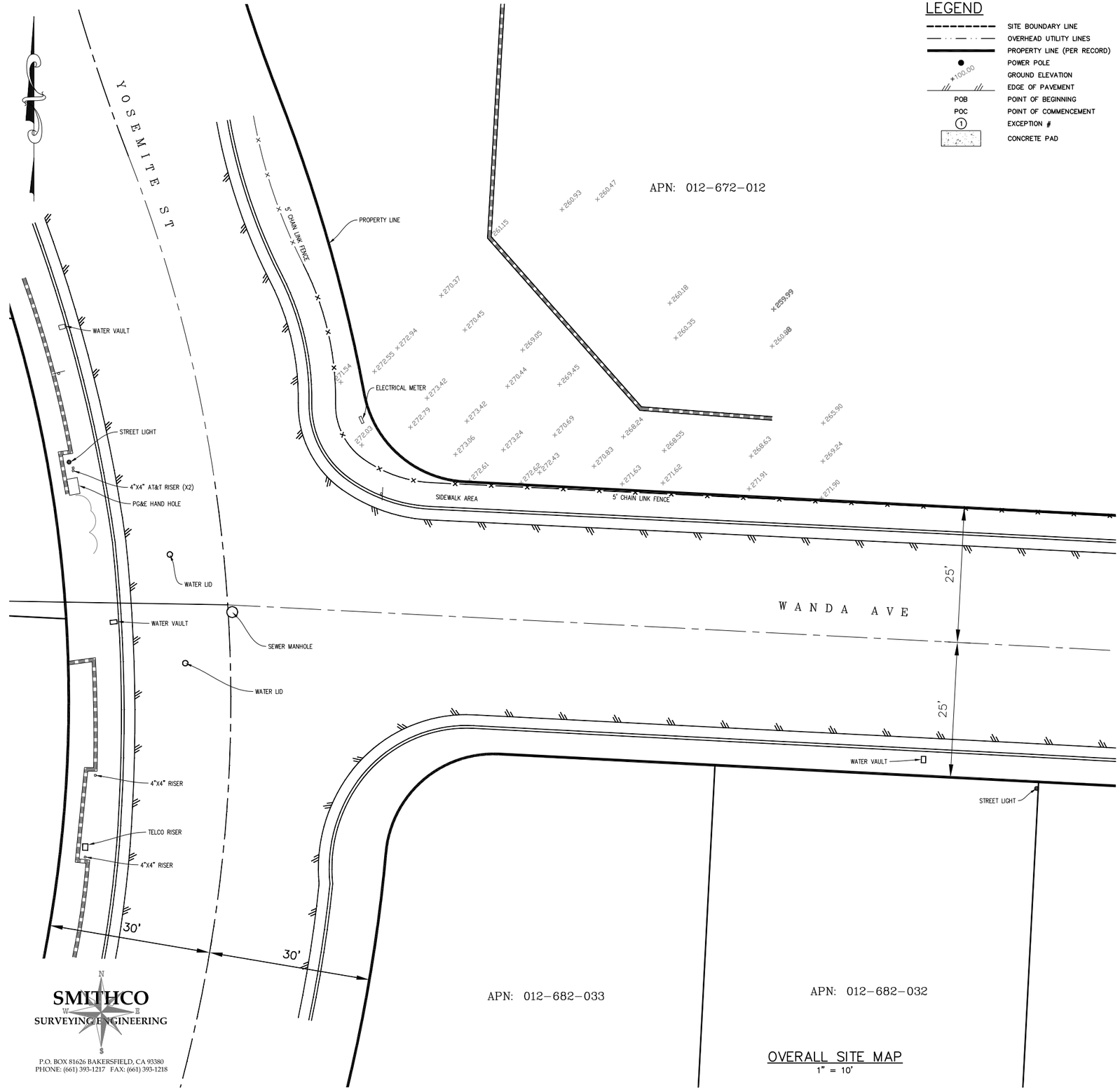
THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD RATE MAP FOR COMMUNITY NO. 060203, PANEL NO. 0327G, DATED APRIL 2, 2009 SHOWS THAT THE LOCATION OF THIS SITE FALLS WITHIN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

THE LATITUDE AND LONGITUDE AT THE LOCATION AS SHOWN WAS DETERMINED BY GPS OBSERVATIONS.

LAT. XX° XX' XXXX" N. NAD 83
LONG. XXX° XX' XXXX" W. NAD 83
ELEV. XXXX' NAVD 88 (BASIS OF DRAWING)

The information shown above meets or exceeds the requirements set forth in FAA order 8260.19D for 1-A accuracy (± 20' horizontally and ± 3' vertically). The horizontal datum (coordinates) are expressed as degrees and decimal degrees thereof. The vertical datum (heights) are expressed in feet and decimals thereof and are determined to the nearest 0.1 foot.





OVERALL SITE MAP
1" = 10'

LEGEND

- SITE BOUNDARY LINE
- OVERHEAD UTILITY LINES
- PROPERTY LINE (PER RECORD)
- POWER POLE
- +100.00 GROUND ELEVATION
- EDGE OF PAVEMENT
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT
- ① EXCEPTION #
- CONCRETE PAD

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	09/19/18	PRELIMINARY	EJ
1	09/20/18	RED LINES	EJ

SMITHCO JOB NO.: 82-1191

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IRVINE, CA 92618

CC SEASIDE 002

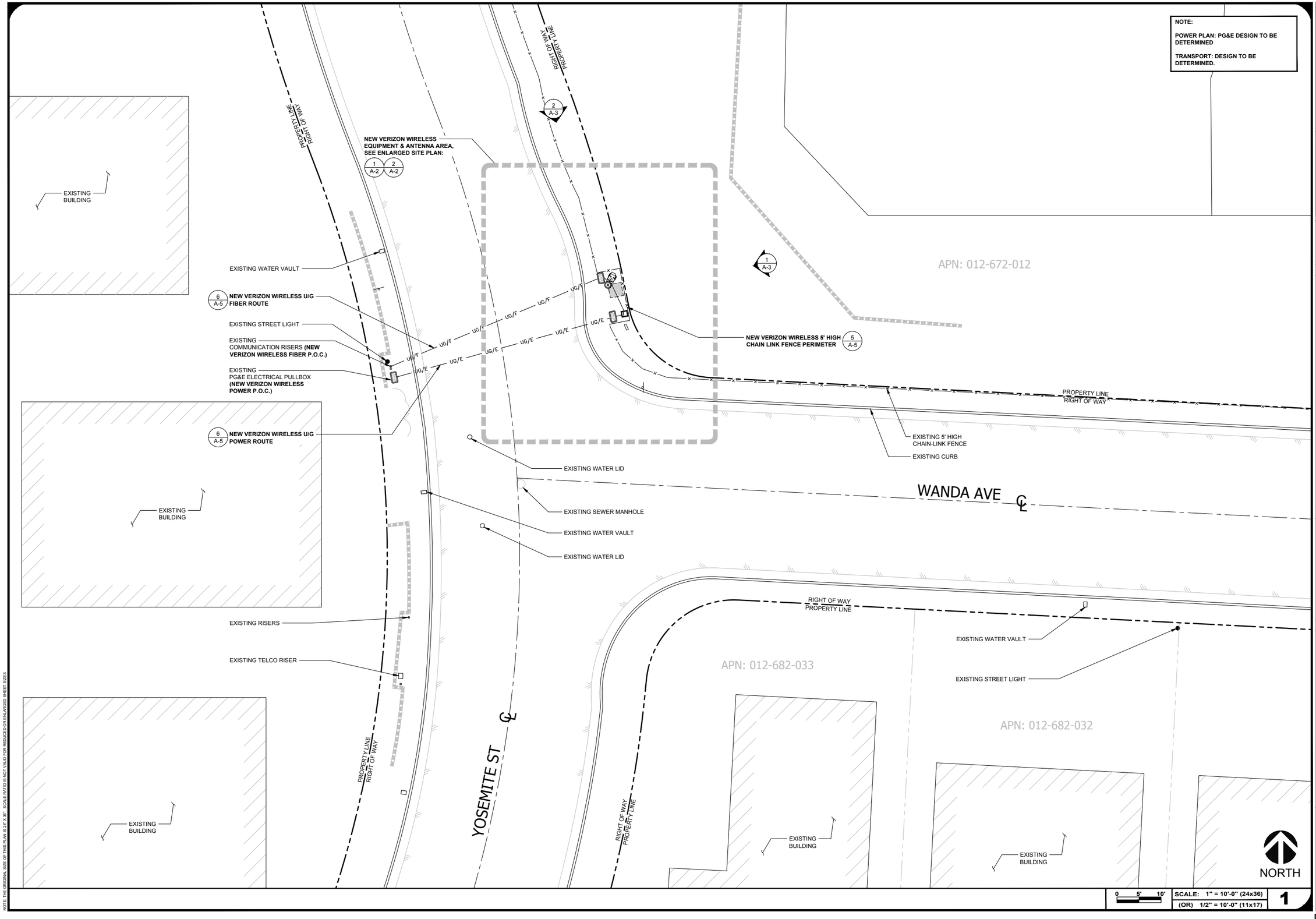
1268 YOSEMITE ST
SEASIDE, CA 93955

MONTEREY COUNTY

SHEET TITLE:
SITE SURVEY
FOR EXAMINATION ONLY

C-1

SMITHCO
SURVEYING & ENGINEERING
P.O. BOX 81626 BAKERSFIELD, CA 93380
PHONE: (661) 393-1217 FAX: (661) 393-1218



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1	12/05/18	100% CONSTRUCTION	FR

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SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

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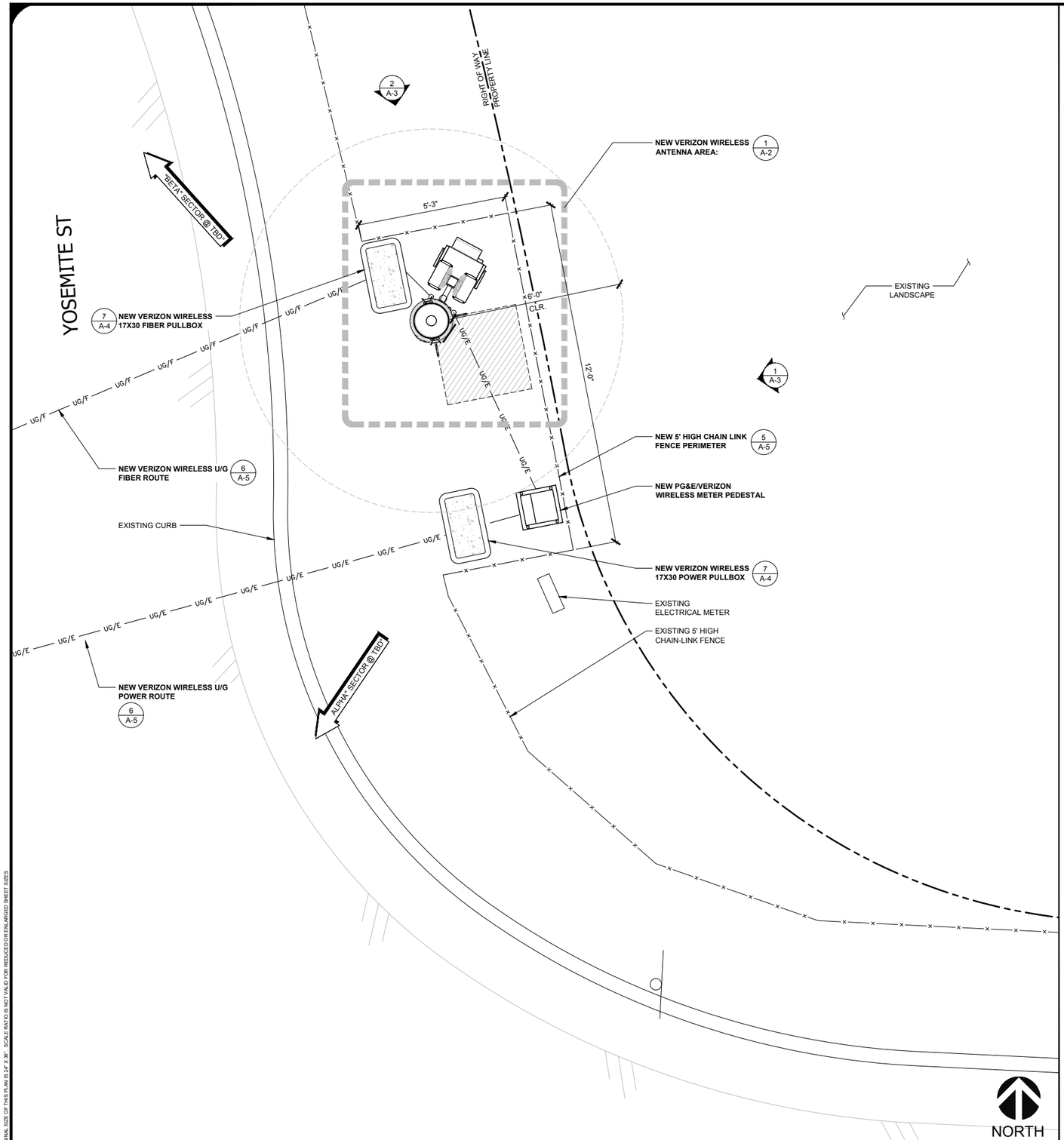
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 002
PSL # 473025
1268 YOSEMITE ST
SEASIDE, CA 93955

SHEET TITLE:

SITE PLAN

A-1

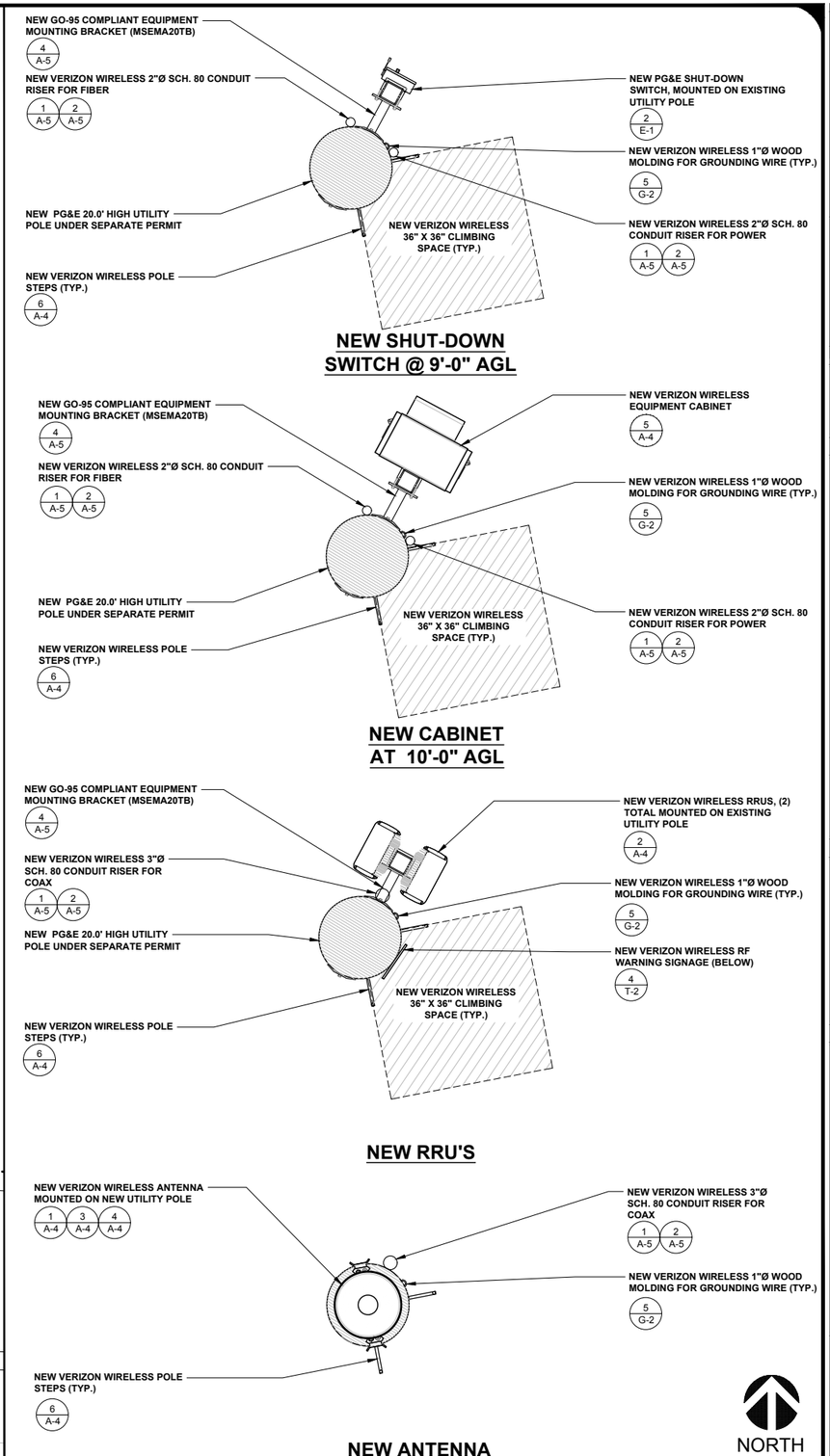


ENLARGED SITE PLAN

0 3" 6" 1'

SCALE: 1" = 1'-0" (24x36)
(OR) 1/2" = 1'-0" (11x17)

2



NEW ANTENNA

ANTENNA & EQUIPMENT LAYOUT

0 3" 6" 1'

SCALE: 3/4 = 1'-0" (24x36)
(OR) 3/8" = 1'-0" (11x17)

1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

ISSUE STATUS

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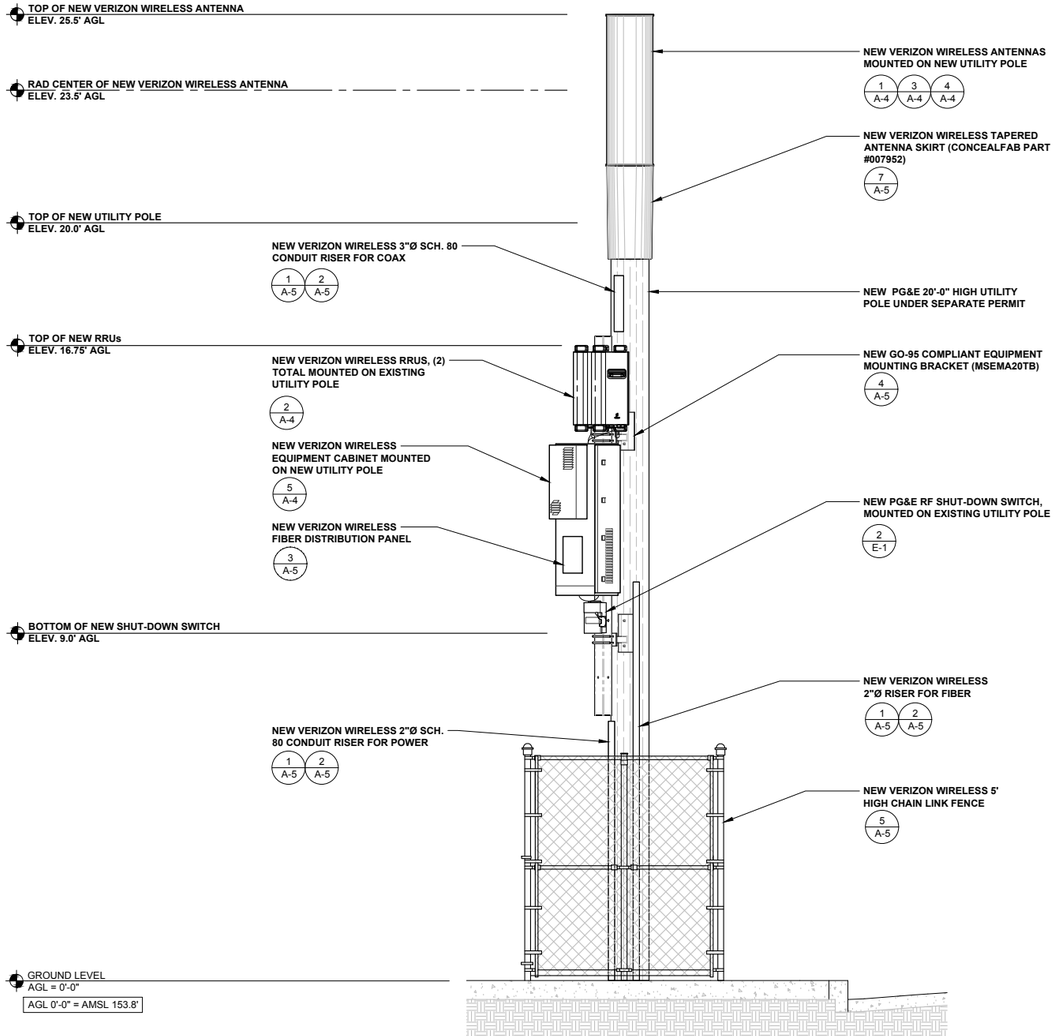
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

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PSL # 473025
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SEASIDE, CA 93955

SHEET TITLE:
ENLARGED SITE PLAN, ANTENNA & EQUIPMENT LAYOUT

A-2

PG&E lines/ communication not shown on pole. Calls out as a new pole, but what does it service?



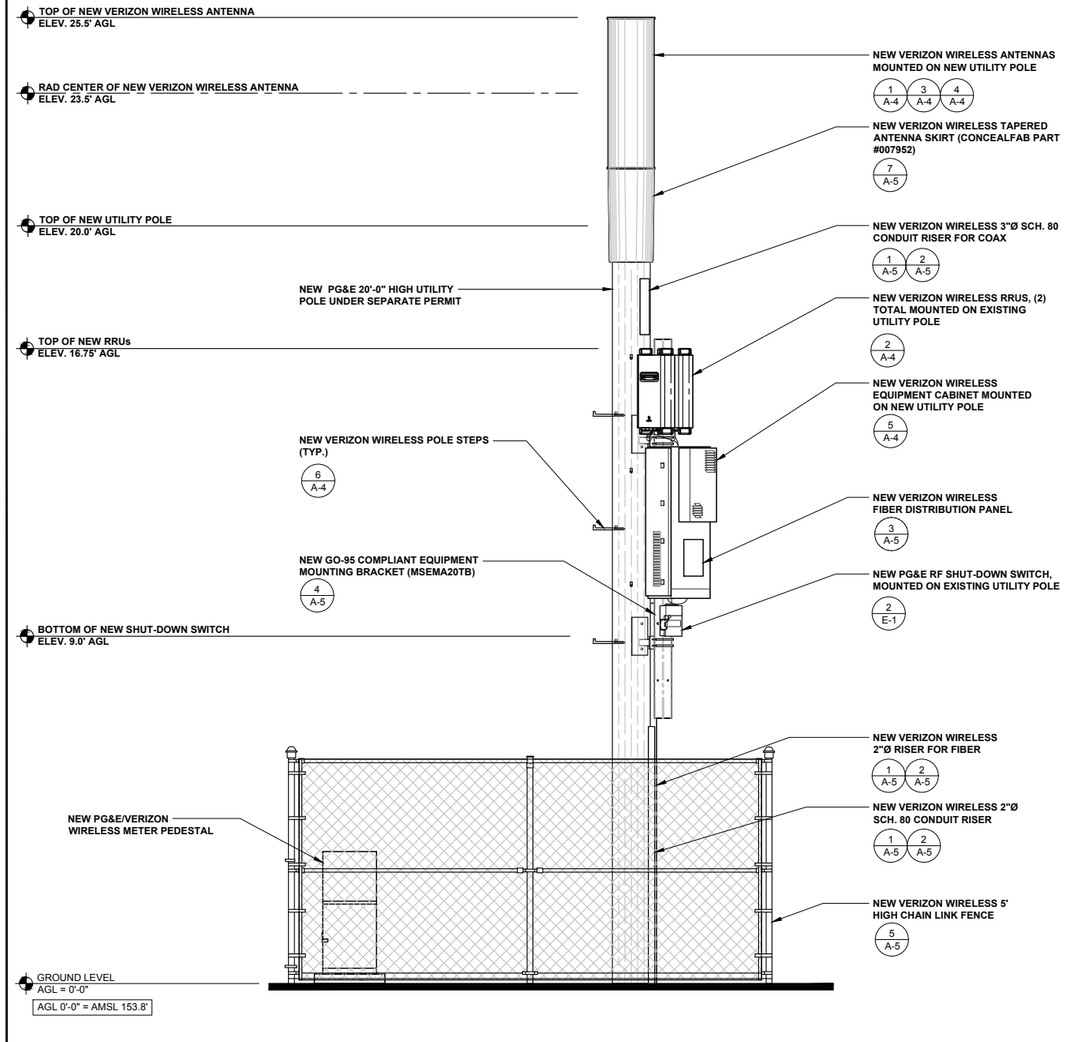
NORTHWEST ELEVATION

0 1' 2' 3'

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

2

EME signage needs called out on pole.



NORTHEAST ELEVATION

0 1' 2' 3'

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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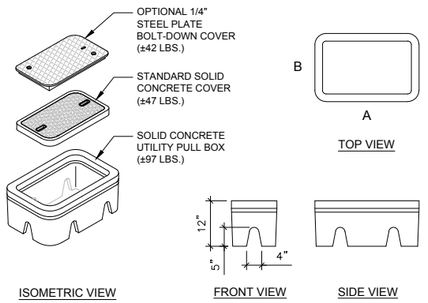
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SEASIDE, CA 93955

SHEET TITLE:
NORTHEAST & NORTHWEST ELEVATIONS

A-3

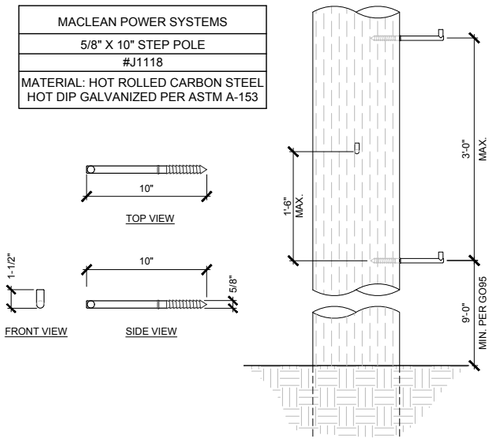
HANDHOLE	
	FIBER
A	30"
B	17"



UTILITY PULLBOX DETAIL

SCALE N.T.S. — 7

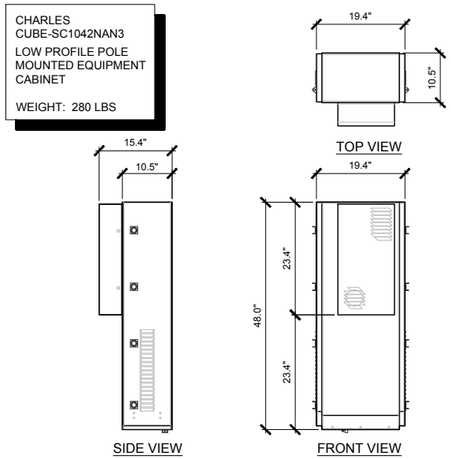
MACLEAN POWER SYSTEMS
5/8" X 10' STEP POLE
#J1118
MATERIAL: HOT ROLLED CARBON STEEL HOT DIP GALVANIZED PER ASTM A-153



POLE STEP DETAIL

SCALE N.T.S. — 6

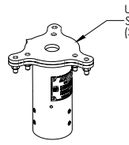
CHARLES CUBE-SC1042NAN3
LOW PROFILE POLE MOUNTED EQUIPMENT CABINET
WEIGHT: 280 LBS



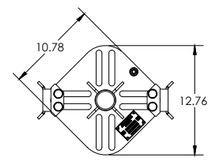
CABINET SPECIFICATIONS

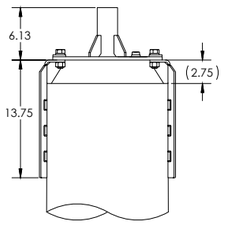
SCALE N.T.S. — 5

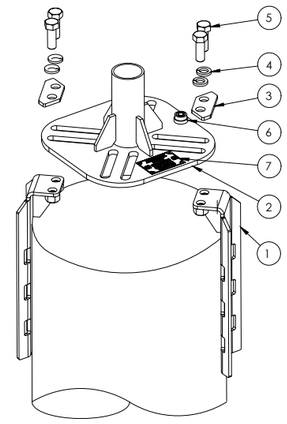
ITEM NO.	QTY.	PART NUMBER	REV.	DESCRIPTION
1	2	003167	N/A	
2	1	002905	A	MAST WELDMENT, 6" LG, BROWN
3	2	002795	A	ECCENTRIC WASHER PLATE, BROWN
4	4	002680	A	WASHER, SPLIT LOCK, 5/8", 18-8 SS, PAS
5	4	PER PLANS		
6	1	002951	A	BULL'S EYE PLASTIC VIAL LEVEL
7	1	002953	A	NAMEPLATE, LABEL, ADHESIVE BACKED

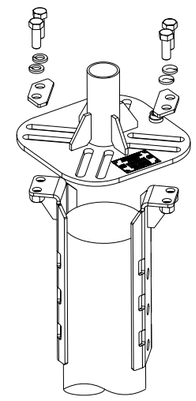


WEIGHT	27lbs (12.3kg)
HEIGHT	25-5/8" (651mm)
WIDTH	12.76" (324mm)
LENGTH	12.76" (324mm)









ConcealFab Corporation
3275 FILLMORE RIDGE HEIGHTS
COLORADO SPRINGS, CO 80907
PH: 719-599-3400 FX: 719-599-0057

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Project: RD-14-0703 POLE TOP EXTENSION

Drawn By: Date:	Ckd By:	Date:
JGL 07/30/14	DOC	07/30/14

Rev:	Date:	Description:	Apd:
A	07/30/14	NEW RELEASE	DOC
B	09/17/14	SLOTS ADDED	DOC
C	06/06/15	SLOTS WIDENED	DOC

DO NOT SCALE DWG

DIMENSIONS ARE IN INCHES
DECIMAL X.X ± 0.050, X.XX ± 0.020, X.XXX ± 0.010 | ANGLE FRACTION X ±1°, X.X ± 0.5° | ±1/16"

Consultant:

Consultant:

Sheet Title: WIDE DIA. POLE TOP MOUNTING BRACKET, BROWN

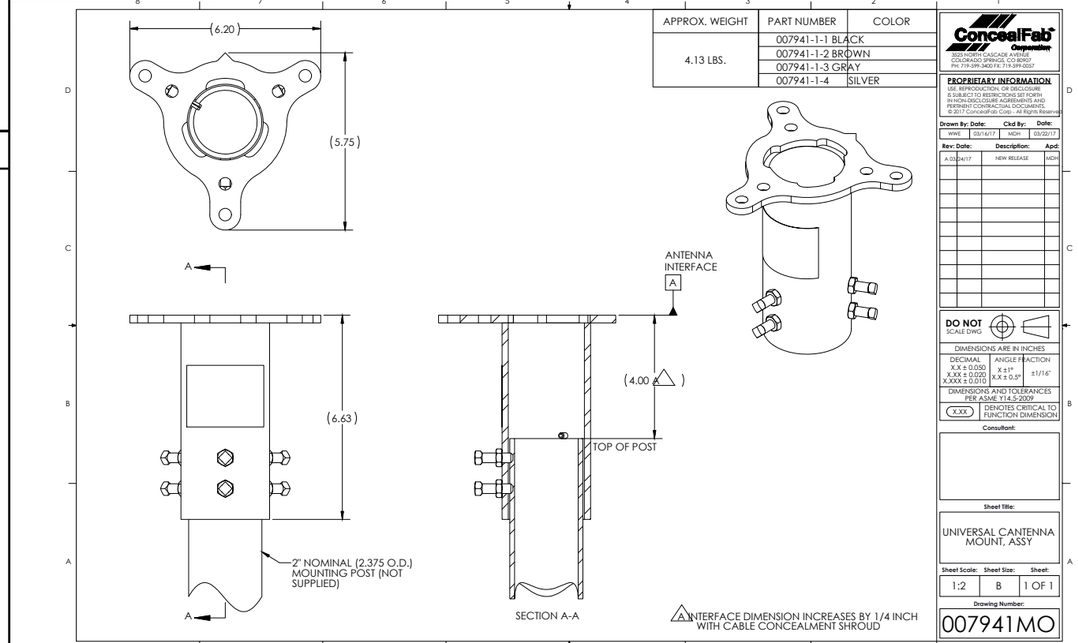
Sheet Scale:	Sheet:	Rev:
1:5	1 OF 1	C

Drawing / Part Number: 003002

UNIVERSAL ANTENNA MOUNT ASSEMBLY

SCALE N.T.S. — 3

APPROX. WEIGHT	PART NUMBER	COLOR
4.13 LBS.	007941-1-1	BLACK
	007941-1-2	BROWN
	007941-1-3	GRAY
	007941-1-4	SILVER



ConcealFab Corporation
3024 NORTH CASCADE AVENUE
COLORADO SPRINGS, CO 80907
PH: 719-599-3400 FX: 719-599-0057

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Drawn By: Date:	Ckd By:	Date:
WWE 03/16/17	MDH	03/22/17

Rev:	Date:	Description:	Apd:
A	03/24/17	NEW RELEASE	MDH

DO NOT SCALE DWG

DIMENSIONS ARE IN INCHES
DECIMAL X.X ± 0.050, X.XX ± 0.020, X.XXX ± 0.010 | ANGLE FRACTION X ±1°, X.X ± 0.5° | ±1/16"

DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009
X.XX DENOTES CRITICAL TO FUNCTION DIMENSION

Consultant:

Sheet Title: UNIVERSAL CANTENNA MOUNT, ASSY

Sheet Scale:	Sheet Size:	Sheet:
1:2	B	1 OF 1

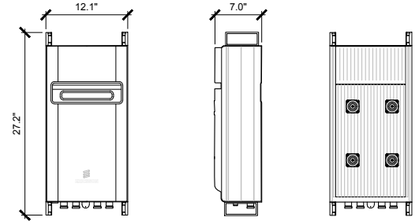
Drawing Number: 007941MO

POLE-TOP MOUNTING BRACKET

SCALE N.T.S. — 4

ERICSSON RRUS 32 B30

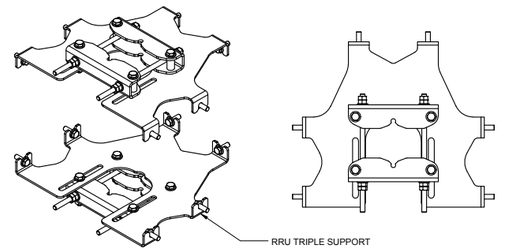
DIMENSIONS:
HEIGHT: 27.2"
WIDTH: 12.1"
DEPTH: 7.0"
WEIGHT: 60 LBS



MAFI 4019-3: TRIPLE RRU SUPPORT KIT

TRIPLE RRU SUPPORT IN STEEL FOR INSTALLATION OF THREE RRUs WITH POSSIBILITY TO ATTACHED A PSU ON THE BACK

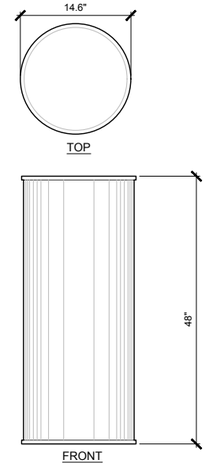
PARTS	MATERIAL	QTY
CLAMPS	S355MC FZV	4
THREADED RODS	8.8 FZV	4
BOLTS M10	8.8 FZV	8
FLANGE BOLTS M10	A4	8
BUSHINGS	S355J2H	4
NUTS M10	8.8 FZV	28
WASHERS	FZV	20



RRUS & TRIPLE MOUNT DETAIL

SCALE N.T.S. — 2

AMPHENOL CUUT360X12Fxyz0
LENGTH: 48"
DIAMETER: 14.6"
WEIGHT: 38.1 LBS



ANTENNA DETAIL

SCALE N.T.S. — 1

ISSUE STATUS

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PSL # 473025
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SEASIDE, CA 93955

SHEET TITLE:
DETAILS

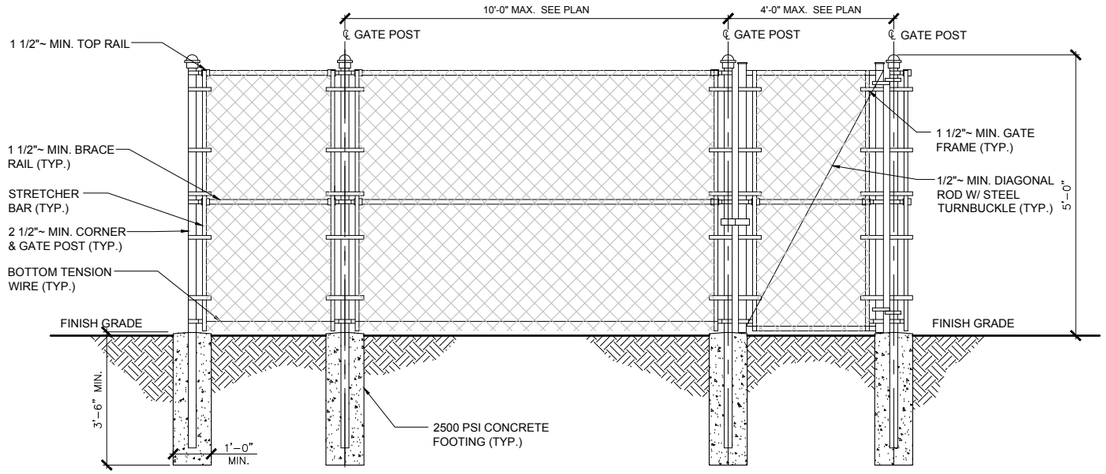
A-4

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

NOT USED

SCALE N.T.S. | 9

CHAIN-LINK FENCE DETAIL



SCALE N.T.S. | 5

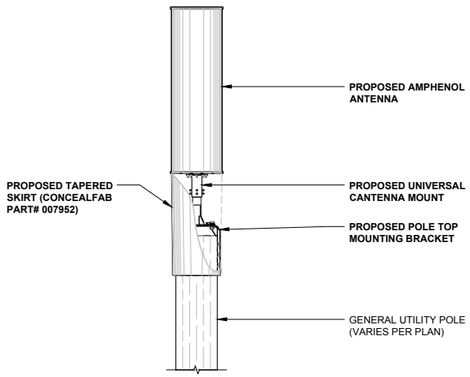
PULL BOX DETAIL



AWM-12		
CAPACITY	6-PACK DUPLEX SC OR LC: 12 FIBERS	AVAILABLE AS A SINGLE OR DUAL DOOR ENCLOSURE
DIMENSION	HEIGHT	8.54"
	WIDTH	10"
	DEPTH	2.88"

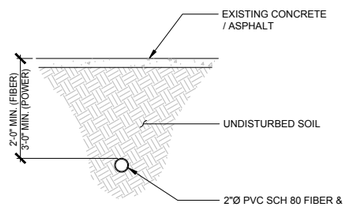
SCALE N.T.S. | 3

TAPERED SKIRT DETAIL



SCALE N.T.S. | 7

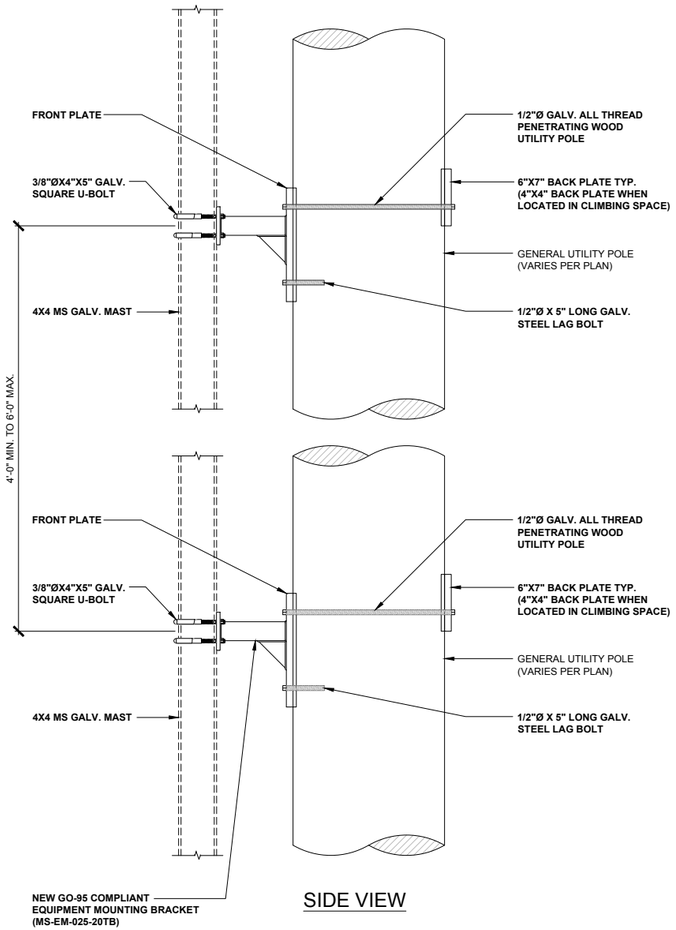
FIBER & POWER BORING DETAIL



UTILITY BORING

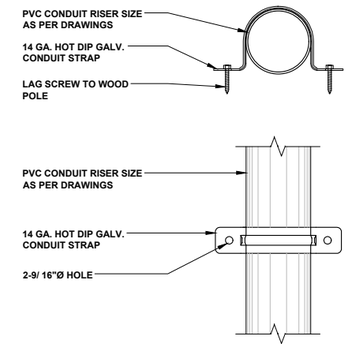
SCALE N.T.S. | 6

EQUIPMENT MOUNTING BRACKET DETAIL (MEXSAL MS-EM-025-20TB)



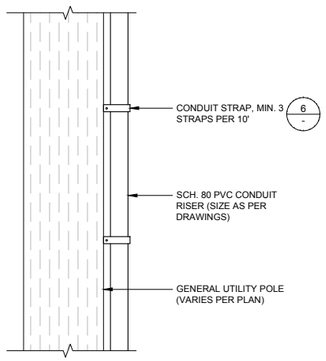
SCALE N.T.S. | 4

CONDUIT RISER STRAP DETAIL



SCALE N.T.S. | 2

CONDUIT RISER DETAIL



SCALE N.T.S. | 1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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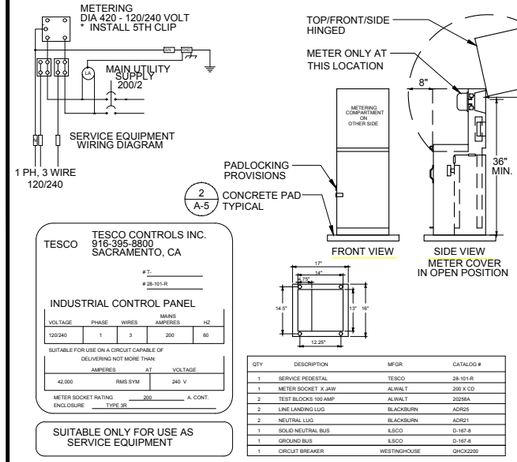
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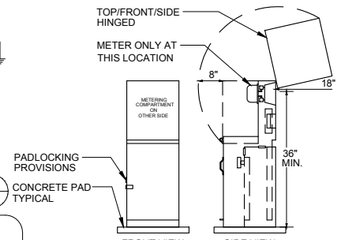
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SHEET TITLE:

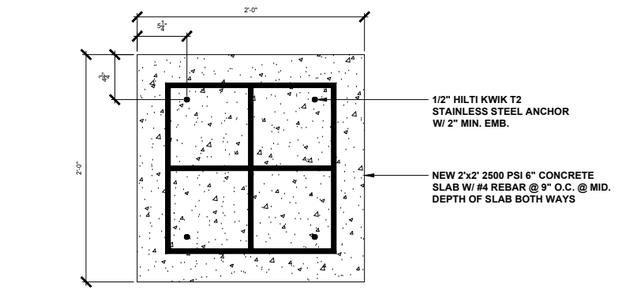
DETAILS

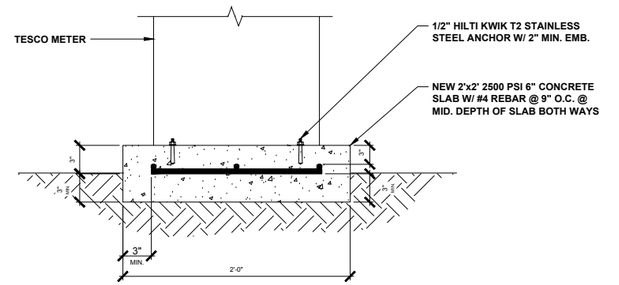
A-5





QTY	DESCRIPTION	MFGR	CATALOG #
1	SERVICE PEDESTAL	TESCO	28-101-R
1	METER SOCKET X JAW	ALWALT	200 X CD
2	TEST BLOCKS 100 AMP	ALWALT	20258A
2	LINE LANDING LUG	BLACKBURN	ADR25
2	NEUTRAL LUG	BLACKBURN	ADR21
1	SOLID NEUTRAL BUS	ILSCO	D-167-8
1	GROUND BUS	ILSCO	D-167-8
1	CIRCUIT BREAKER	WESTINGHOUSE	GHCK2200





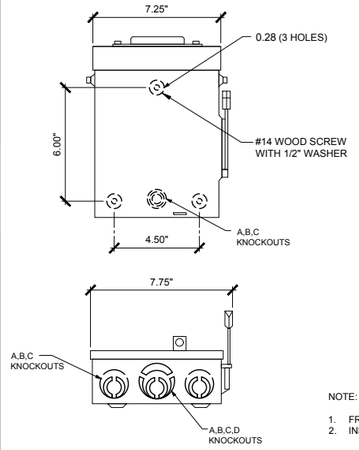
METER PEDESTAL DETAIL

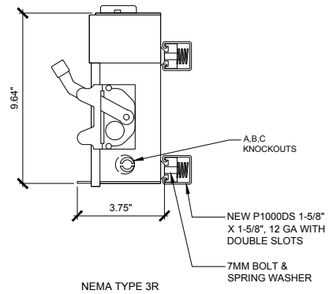
SCALE N.T.S. | 4

NOTE:
POWER PLAN: PG&E DRAWINGS PENDING

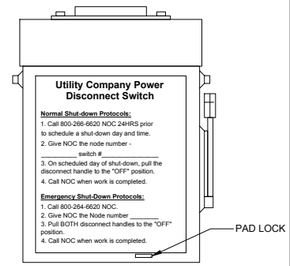
POWER PLAN

SCALE N.T.S. | 3





NEMA TYPE 3R ILLUSTRATED



6" X 7" SHUT-DOWN PROTOCOL LABEL OUTSIDE DISCONNECT SWITCH DOOR

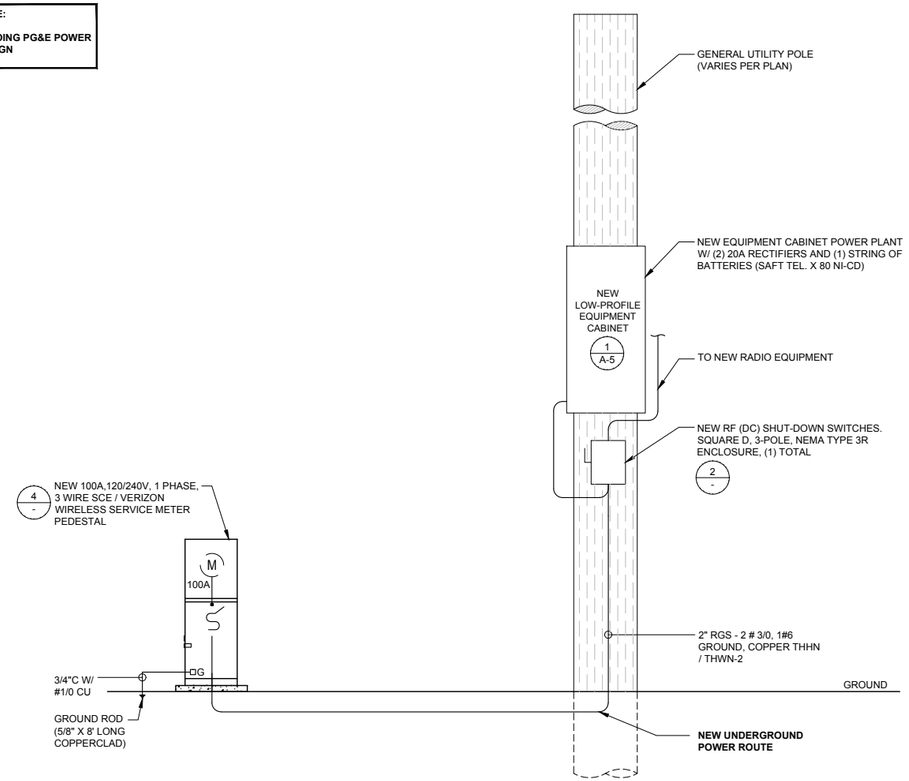
NOTE:

1. FRONT SWITCH LABEL TEXT HEIGHT TO BE 1/4".
2. INSIDE SHUT-DOWN PROTOCOL LABEL TEXT HEIGHT TO BE 3/16".

RF SHUT-DOWN SWITCH DETAIL (3-POLE)

SCALE N.T.S. | 2

NOTE:
PENDING PG&E POWER DESIGN



POWER 1 LINE DIAGRAM

SCALE N.T.S. | 1

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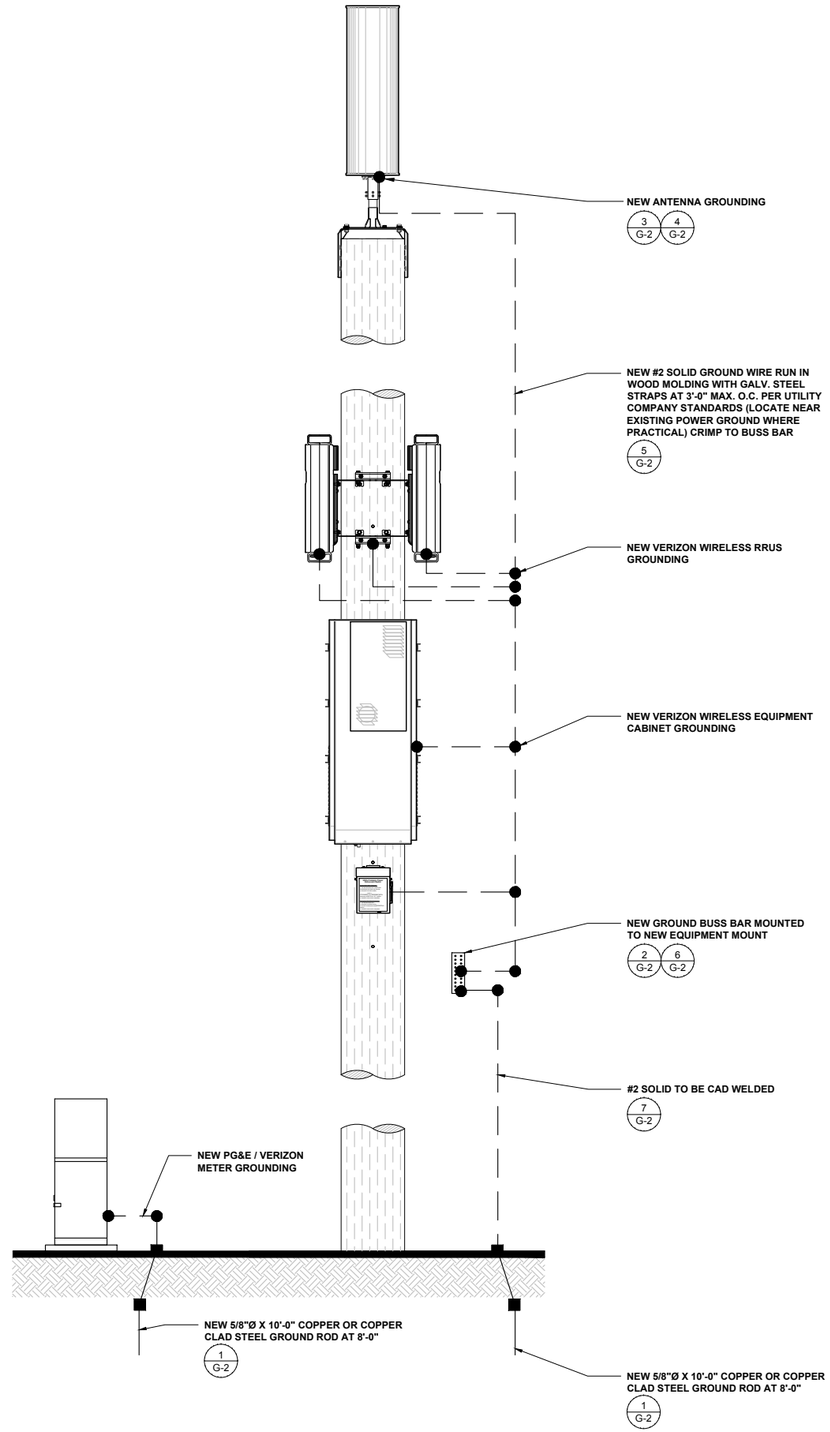
verizon

2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

CC SEASIDE 002
PSL # 473025
1268 YOSEMITE ST
SEASIDE, CA 93955

SHEET TITLE:
POWER 1 LINE DIAGRAM & DETAILS

E-1



EQUIPMENT GROUNDING
ELEVATION (TYPICAL)

NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. GROUND BARS:
   A. EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
   B. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
6. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
7. ALL NEW GROUNDING LEAD CONDUCTORS SHALL BE #2 SOLID TINNED BARE COPPER.
8. NEW GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS.
9. NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE CONDITIONS.
10. CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROC OR APPROVED EQUAL, WHEN REQUIRED.
11. ALL NEW GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE VERIZON WIRELESS STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.

GROUNDING NOTES

SCALE N.T.S. 2

ANTENNA & EQUIPMENT GROUNDING PLAN

SCALE N.T.S. 1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
0	10/03/18	90% CONSTRUCTION	FR
1	12/05/18	100% CONSTRUCTION	FR

SAC WIRELESS
SAC AE DESIGN GROUP, INC.
5015 SHOREHAM PLACE, SUITE 150
SAN DIEGO, CA 92122
www.sacw.com
619.736.3766

PROPRIETARY INFORMATION
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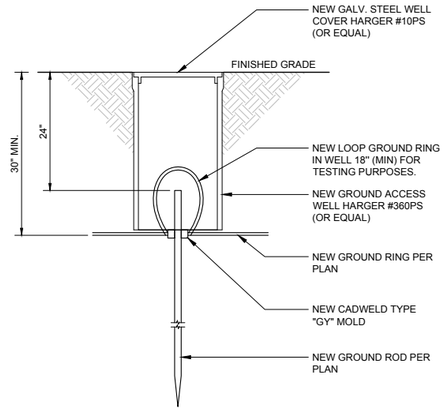
SHEET TITLE:
GROUNDING PLAN & NOTES

G-1

NOT USED

SCALE N.T.S. 9

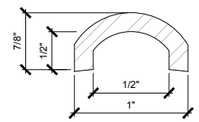
TEST WELL DETAIL



SCALE N.T.S. 8

GROUND WIRE MOLDING DETAIL

DIS-TRAN GROUND WIRE MOLDING
MODEL: DT-GWM-O1
MATERIAL: OAK
LENGTH SECTION: 8'-0" WEIGHT: 1.7 LBS

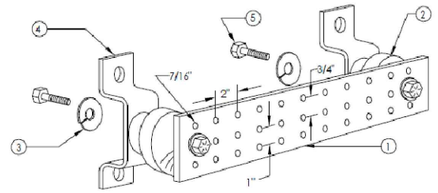


PRESERVATIVE TREATMENT

UNLESS OTHERWISE SPECIFIED, ALL GWM ARE PRESSURE TREATED ACCORDING TO THE AMERICAN WOOD PRESERVERS' ASSOCIATION STANDARDS, WITH PENTACHLOROPHENOL IN HEAVY HYDROCARBON SOLVENT PER AWPA, P-8, P-9 TYPE A.

SCALE N.T.S. 5

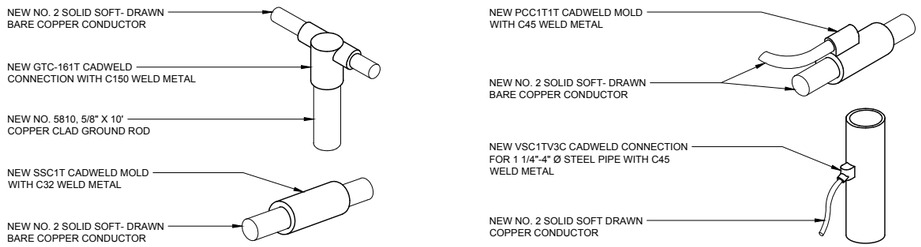
BUS BAR DETAIL



1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL.
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT NO. 3015-8 OR APPROVED EQUAL.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6065 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL.
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO STRUCTURE AND BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

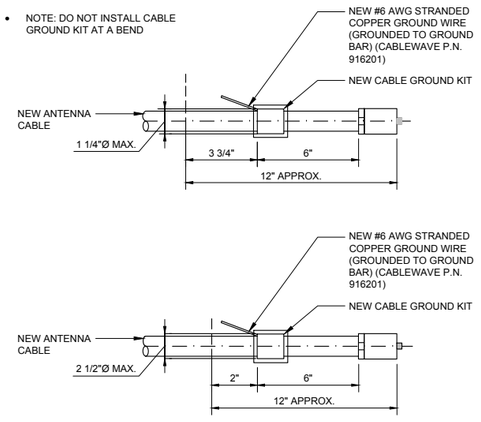
SCALE N.T.S. 2

CADWELDS



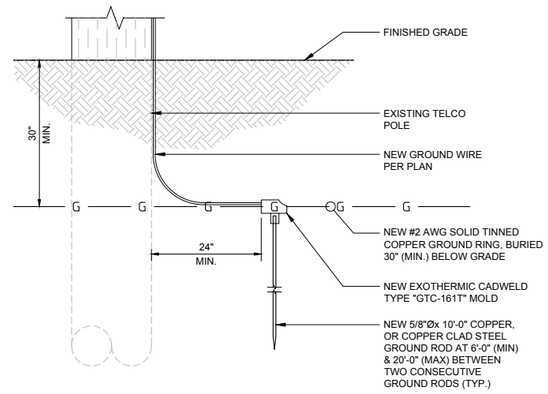
SCALE N.T.S. 7

ANTENNA GROUND KIT



SCALE N.T.S. 4

GROUND ROD DETAIL



GROUND RODS (GROUND ELECTRODES):
GROUND RODS ON THE COMMUNICATION MESSENGER SYSTEM(S) SHALL CONFORM TO EACH OF THE FOLLOWING REQUIREMENTS.

A. GROUND RODS SHALL BE CORROSION-RESISTING METAL RODS OR PIPES (OR EQUIVALENT IN ELECTRICAL PROPERTIES)

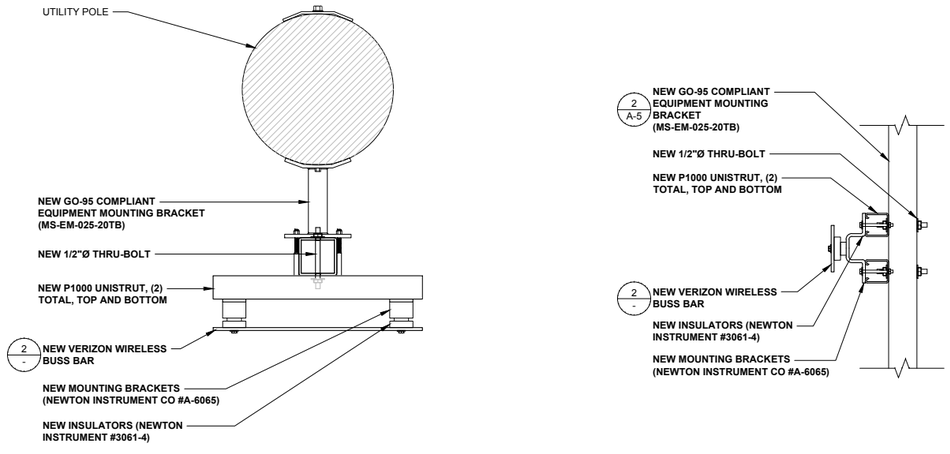
B. GROUND RODS SHALL NOT BE LESS THAN 5/8-INCH IN DIAMETER BY 10 FEET (TOTAL) IN LENGTH; THIS MAY INCLUDE TWO (2) FIVE-FOOT JOINED SECTIONS.

C. GROUND RODS SHALL BE DRIVEN INTO THE GROUND SO THAT ON ONE END OF THE GROUND ROD IS AT MINIMUM DEPTH OF 8 FEET BELOW THE SURFACE OF THE GROUND. THE TOP END OF THE GROUND ROD SHALL NOT BE LESS THAN 1 FOOT BELOW THE SURFACE OF THE GROUND.

D. POLE-BUTT PLATES OR WRAPPINGS SHALL NOT BE USED EITHER IN LIEU OF THE AFORESAID GROUND RODS OR PIPES, OR AS ELECTRODES SUPPLEMENTARY THERETO.

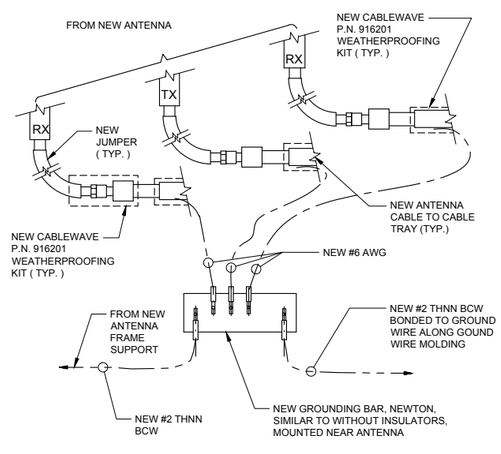
E. THE DRIVEN GROUND ROD(S), PIPE(S), OR EQUIVALENT SHALL BE LOCATED 24 INCHES OR MORE FROM THE SURFACE OF THE POLE.

BUS BAR MOUNTING DETAIL



SCALE N.T.S. 6

ANTENNA GROUND DETAIL



SCALE N.T.S. 3

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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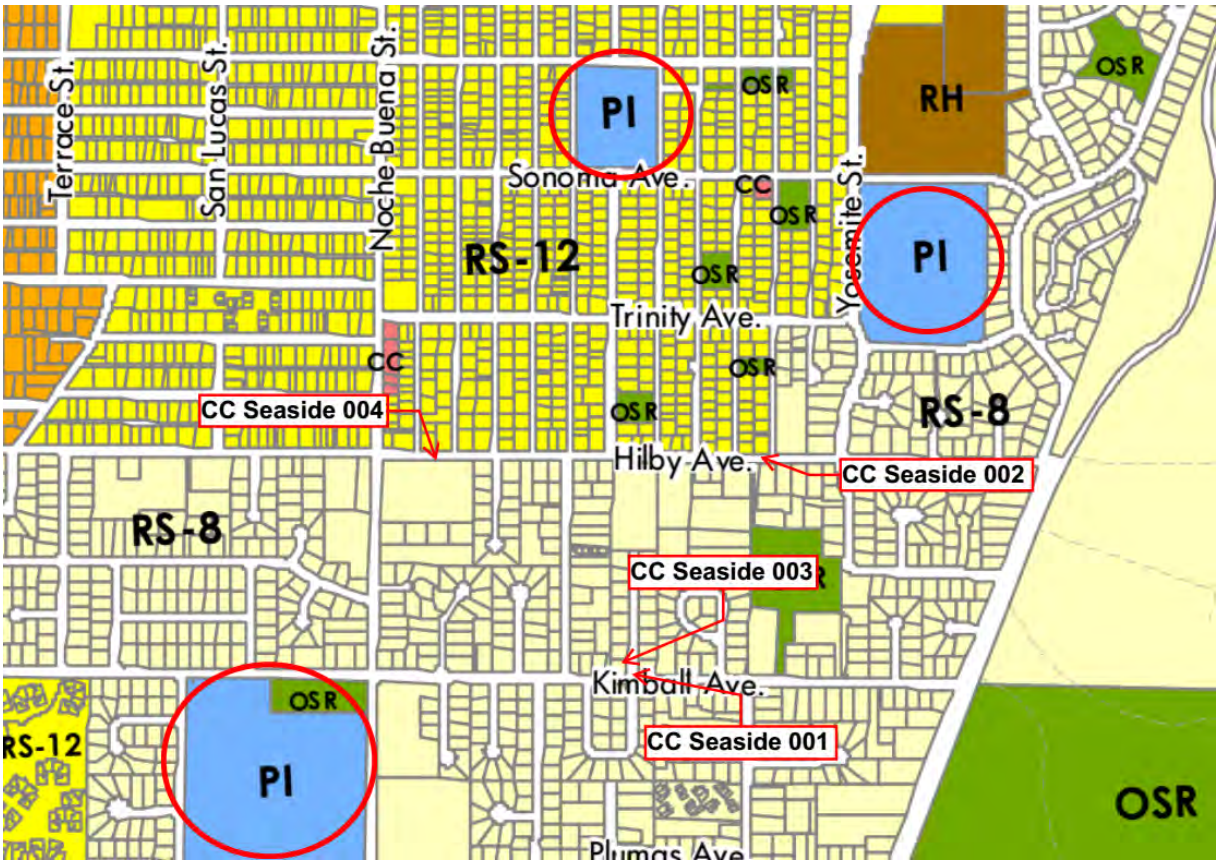
SHEET TITLE:
GROUNDING DETAILS

G-2

Alternative Candidate Analysis

verizon

CC Seaside 001, 002,
003, 004
Seaside, CA



5/16/2019

Summary of Site Evaluations
Conducted by: SAC Wireless

Kimball PI Zone



Corner of Kimall Ave & Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Vertical clearances with power wires adjacent to pole required by GO95 are not met.

- There are four risers on pole which is an issue because we are not able to clear the 2 quadrants for climbing and equipment spaces needed.



Corner of Kimall Ave & Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Vertical and horizontal clearances with power wires adjacent to pole required by GO95 are not met as wires run very close to pole both vertically and horizontally.



1st pole on Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Primary riser present which disqualifies the pole pursuant to PG&E's rule as it presents a safety hazard to their electricians to have antennas above high power lines.
-
- Lateral clearance not met due to a wire that runs throughout pole inches away from it.



2nd pole on Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Primary riser present which disqualifies the pole pursuant to PG&E's rule as it presents a safety hazard to their electricians to have antennas above high power lines.

- Lateral clearance not met due to a wire that runs throughout pole inches away from it.

- There is equipment already on pole so not enough space available to accommodate equipment and climbing space needed by PG&E.



3rd pole on Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.



4th pole on Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- There are 3 risers on the pole, and PG&E rejects any pole with more than 2 due to lack of free quadrants for both climbing and equipment space for which the pole has to be clear from the bottom up in oder to be usable. pursuant to GO95.



5th pole on Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.



Last pole on Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth in GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Vertical and horizontal clearances with power wires adjacent to pole required by GO95 are not met as wires run very close to pole both vertically and horizontally.

✶



Pole on Intersection of Plumas Ave & Noche Buena St.

Reasons for Elimination:

- Pole is feasible, but it would require either a 4 ft extension or a replacement with a taller pole depending on its age.

-The pole would also need a ground electric meter and underground utility routing .



2nd pole on Kimball Ave.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Vertical clearances with power wires adjacent to pole required by GO95 are not met.

- Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.

- Large insulator on top that PG&E may not agree to relocate as it is up to their discretion, thus a pole top would not be feasible even with a replacement with a taller pole.



3rd pole on Kimball Ave.

Reasons for Elimination:

- There are multiple power drops and wires that would have to be relocated in order to create enough space for both climbing and equipment.

- Survey is also needed, as pole is very close to fence of adjacent property and it could be on private property land.



4th pole on Kimball Ave.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Large insulator on top that PG&E may not agree to relocate as it is up to their discretion, thus a pole top would not be feasible even with a replacement with a taller pole.



5th pole on Kimball Ave.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Vertical clearances with power wires adjacent to pole required by GO95 are not met.

- Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.

- Large insulator on top that PG&E may not agree to relocate as it is up to their discretion, thus a pole top would not be feasible even with a replacement with a taller pole.



6th pole on Kimball Ave.

Reasons for Elimination:

-Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

-Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

-Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

-Vertical clearances with power wires adjacent to pole required by GO95 are not met.

-Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.

-Large insulator on top that PG&E may not agree to relocate as it is up to their discretion, thus a pole top would not be feasible even with a replacement with a taller pole.



Pole is on Kimball Ave.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount not feasible due to RAD center that would be too low for coverage purposes.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.

- Insulator on top of pole that PG&E may not agree to relocate as it is up to their discretion, and if they do, it would be placed on a standoff arm.



Pole is on Plumas Ave.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.



Pole is on Plumas Ave.

Reasons for Elimination:

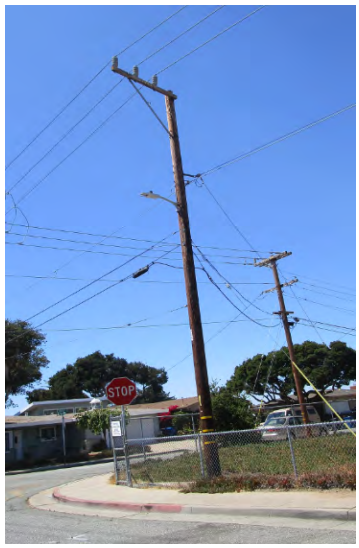
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- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.

- Pole has cut outs and PG&E does not allow collocation on such poles.



Pole is on intersection of Plumas Ave & Tweed St.

Reasons for Elimination:

- Pole is on private property, and thus a lease would have to be negotiated with the property owner for an utility easement.

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.



Pole is on Tweed St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount could be feasible, however the RAD center might be too low for coverage purposes.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.

- Pole is way too overstressed with power, communication and guy lines, and even if everything was rearranged with a replacement, we would still be unable to get enough climbing and equipment space.

- Pole has cut outs and PG&E does not allow collocation on such poles.



Pole is on Tweed St.

Reasons for Elimination:

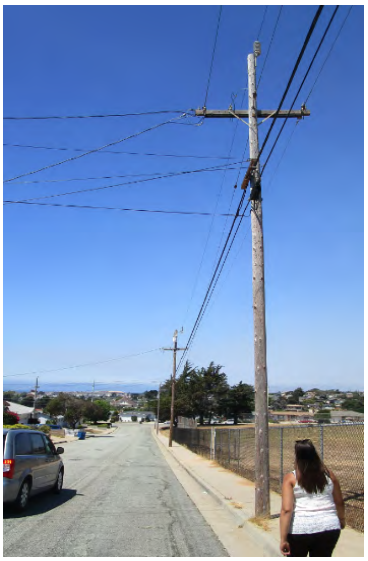
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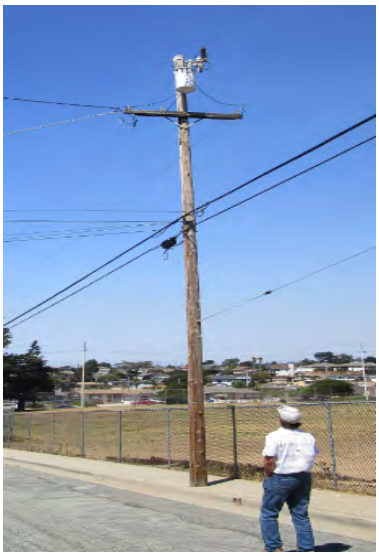
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- Insulator on top of pole that PG&E may not agree to relocate as it is up to their discretion, and if they do, it would be placed on a standoff arm.



Pole is on Tweed St.

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- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

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- Insulator on top of pole that PG&E may not agree to relocate as it is up to their discretion, and if they do, it would be placed on a standoff arm.



Pole is on on intersection of Tweed St. & Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount could be feasible, however the RAD center might be too low for coverage purposes.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.

- Insulator on top of pole that PG&E may not agree to relocate as it is up to their discretion, and if they do, it would be placed on a standoff arm.
- The oak tree would have to be trimmed as it wraps around the pole.



Pole is on Noche Buena St.

Reasons for Elimination:

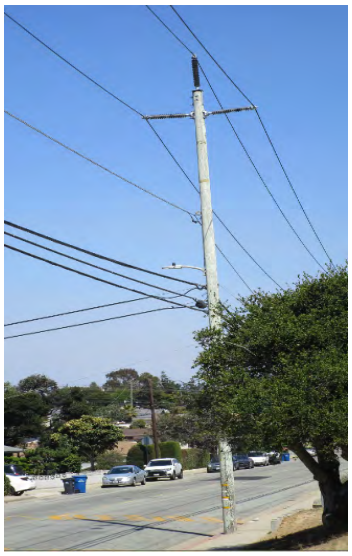
- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.

- Large insulator on top that PG&E may not agree to relocate as it is up to their discretion, thus a pole top would not be feasible even with a replacement with a taller pole.



Pole is on Noche Buena St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Large insulator on top that PG&E may not agree to relocate as it is up to their discretion, thus a pole top would not be feasible even with a replacement with a taller pole.



1248 Kimball Ave

Reasons for Elimination:

- Pole was found to be in private property.



1251 Kimball Ave

Reasons for Elimination:

- Pole was rejected by PG&E during the pre-fligjt walk due to a new rule that does not allow for collocation on poles with distribution only power.

Yosemite PI Zone

✶



Light pole on intersection of Yosemite St. & Wanda Ave.

Reasons for Elimination:

- MLA would have to be negotiated with the city to go onto Light Pole.

- Equipment will be set on the ground at the base of the pole.

- Underground area has to be investigated for possible water routes that could be disturbed during construction.



Light pole on Yosemite St.

Reasons for Elimination:

- MLA would have to be negotiated with the city to go onto Light Pole.

- Equipment will be set on the ground at the base of the pole.

- Survey needed to determine whether property is in the right of way or part of the adjacent private property.

Sonoma PI Zone



On Flores St.; On private parking lot

Reasons for Elimination:

- Pole is on private property, and thus a lease would have to be negotiated with the property owner for an utility easement.

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Power would have to be pulled overhead from an adjacent pole as PG&E does not allow use of the primary power on the pole; a transformer might need to be installed on the pole to allow for power supply.



On Flores St.; on private parking lot

Reasons for Elimination:

- Pole is on private property, and thus a lease would have to be negotiated with the property owner.

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole would have to be pulled overhead from an adjacent pole as PG&E does not allow use of the primary power on the pole; a transformer might need to be installed on the pole to allow for power supply.



Intersection of Sonoma Ave & Waring St.

Reasons for Elimination:

- If PG&E lease negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Primary riser present which disqualifies the pole pursuant to PG&E's rule as it presents a safety hazard to their electricians to have antennas above high power lines.

- Lateral clearance not met due to a wire that runs throughout pole inches away from it.

- There is equipment already on pole so not enough space available to accommodate equipment and climbing space needed by PG&E.
- There are switches on the pole and PG&E does not allow for collocation on such poles.



Intersection of Sonoma Ave & Waring St.

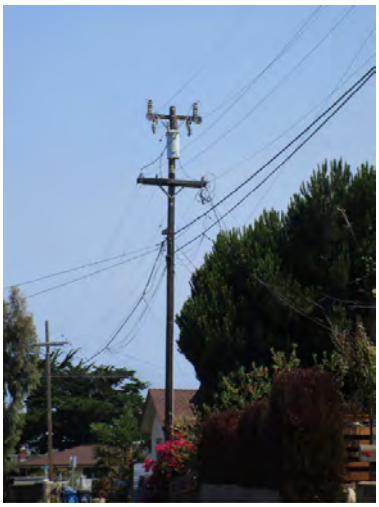
Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is way too overstressed and we would be unable to get enough equipment and climbing space.



Pole is on Harding St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is less than 8 ft. from the driveway, and thus PG&E would disqualify it.

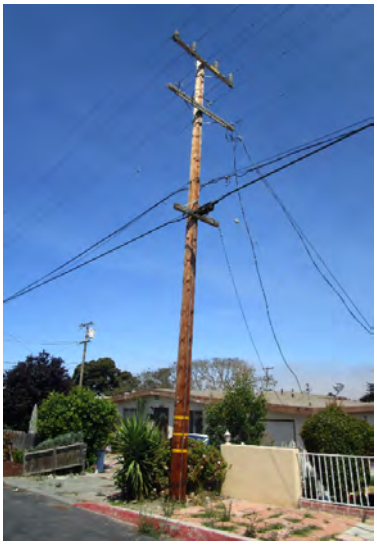


Intersection of St. Albans Ave & Harding St.

Reasons for Elimination:

- Pole would need to be replaced with 10 ft. taller pole to achieve PG&E and GO95 clearances at pole top from power lines.

-Pole is less than 8 ft. from the driveway, and thus PG&E would disqualify it.



Pole is on St. Albans Ave

Reasons for Elimination:

- Pole would need to be replaced with 10 ft. taller pole to achieve PG&E and GO95 clearances at pole top from power lines.

-Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

-Pole is less than 8 ft. from the driveway, and thus PG&E would disqualify it.



1st pole on Flores St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- There are multiple risers on pole and we would not be able to get both climbing and equipment spaces.

- There is a fire hydrant adjacent to the pole, thus water is running underground and we would be unable to dig underground.



2nd pole on Flores St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is not ADA compliant as it is set in the middle of the sidewalk, thus it would have to be replaced and relocated to meet standards.



Pole is on intersection of Waring St. & Elm Ave

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is way too overstressed and we would be unable to get enough equipment and climbing space.

- Pole is less than 8 ft. from the driveway, and thus PG&E would disqualify it.

✶



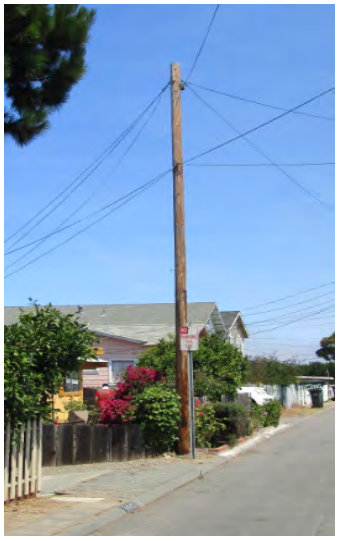
Pole is on Waring St.

Reasons for Elimination:

- This pole could be feasible either as a pole top if a lease is negotiated with PG&E or as mid-mount with a replacement with a 6 feet taller pole in order to achieve all the necessary clearances.

- PG&E would have to rearrange the wires and add a standoff arm in order to have clean quadrant for climbing space and enough space for equipment on a separate quadrant.

- There is a water vault adjacent to pole so routes will have to be inspected so they are not disturbed during construction.



Pole is on Waring St.

Reasons for Elimination:

-Pole would require a ground electric meter and utilities routed underground in the ROW to be viable.

-Pole would need to be replaced due to age and to meet clearances from current lines on pole.

-Pole is less than 8 ft. from the driveway, and thus PG&E would disqualify it.



Intersection of Sonoma Ave & Waring St.

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is way too overstressed and we would be unable to get enough equipment and climbing space.

- Pole is less than 8 ft. from the driveway, and thus PG&E would disqualify it.



Pole is on Waring St.

Reasons for Elimination:

-Pole would require replacement due to PG&E 28-inch separation rule from top conductor. Replacement pole would require an additional 10 feet to meet PGE/GO95 clearances.

-Pole is less than 8 ft. from the driveway, and thus PG&E would disqualify it.

Mal's Market



Pole is on Noche Buena St. outside Mal's Market

Reasons for Elimination:

- Pole has struc tural integrity issues that would require replacement with pole that is 10 feet taller to meet GO95 clearances above powerlines.

-Antenna cannot be placed mid-mount on pole due to on a low RAD center available that would not meet coverage objectives.

-Pole is less than 8 ft. from the driveway, and thus PG&E would disqualify it as co-locatable for antennas.



Pole is on intersection of Noche Buena St. & Wanda Ave

Reasons for Elimination:

- Transmission pole so a pole top option is not part of the MLA agreement in place. If negotiated, a pole replacement of a pole taller by 10 feet would be required to achieve clearances set forth on GO95.

- Mid-mount is also not feasible because it does not meet GO95 regulations due to lack of necessary spacing from the attached lines.

- Pole replacement with a taller pole to allow for spacing would not be feasible as all the transmission poles have to match in height for the power lines to connect and transmit seamlessly.

- Pole is way too overstressed and we would be unable to get enough equipment and climbing space.

- Pole is outside a historical house and zoned residential.
There is some equipment on pole already.



Pole is on Noche Buena St. across from Mal's Market

Reasons for Elimination:

- Pole could be feasible with a replacement pending age verification and with a taller pole.

- Power would have to be served overhead as PG&E does not serve power underground pursuant to new regulations and a transformer will need to be installed on pole.

- Survey needed to verify if pole is in the right of way.

Verizon Wireless • Proposed Small Cell (No. 473026 "CC Seaside 003")
1101 Buena Street • Seaside, California

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. 473026 "CC Seaside 003") proposed to be sited in Seaside, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Executive Summary

Verizon proposes to install one cylindrical antenna on the utility pole sited in the public right-of-way at 1101 Buena Street in Seaside. 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. 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 in front of 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 SAC AE Design Group, Inc., dated November 20, 2017, it is proposed to install one Amphenol Model CUUT360X06F, 2-foot tall omnidirectional antenna on a crossarm to be added to the utility pole sited in the public right-of-way in front of the single-story residence located at 1101 Buena Street in Seaside. The antenna would employ 4° downtilt and would be mounted at an effective height of about 29½ feet above ground. The maximum effective radiated power in any direction would be 980 watts, representing simultaneous operation at 560 watts for AWS and 420 watts for PCS service.

Another small cell is proposed by Verizon to be installed on another utility pole about 120 feet to the south, at the southwest corner of Kimball Avenue and Haviland Terrace (small cell 473024 "CC Seaside 001"). The proposed operating specifications of that small cell are identical to those in the paragraph above, except that the antenna would be mounted at an effective height of 22½ feet above ground. There are reported no other wireless telecommunications base stations at this site or nearby.

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed Verizon operation ("CC Seaside 003") is calculated to be 0.029 mW/cm^2, which is 2.9% of the applicable public exposure limit. The maximum calculated cumulative level at ground, including both proposed small cells, is calculated to be 5.5% of the applicable public exposure limit. The maximum calculated

level at the second-floor elevation of any nearby building is 16% 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.

Recommended Mitigation Measures

Due to its mounting location and height, the Verizon 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 5 feet at the same height as the antenna, such as might occur during certain maintenance activities, 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 to persons who might need to work within that distance.

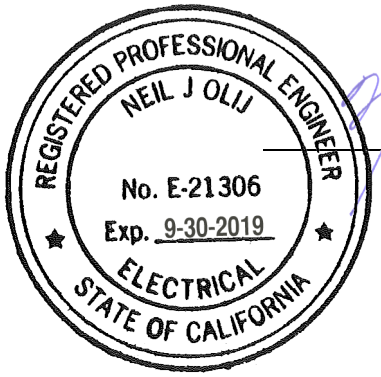
Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the small cell proposed by Verizon Wireless at 1101 Buena Street in Seaside, 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.

* Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (*e.g.*, a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter, and guidance from the landlord, local zoning or health authority, or appropriate professionals may be required. Signage may also need to comply with the requirements of California Public Utilities Commission General Order No. 95.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration No. E-21306, which expires on September 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.



Neil J. Olij, P.E.
707/996-5200

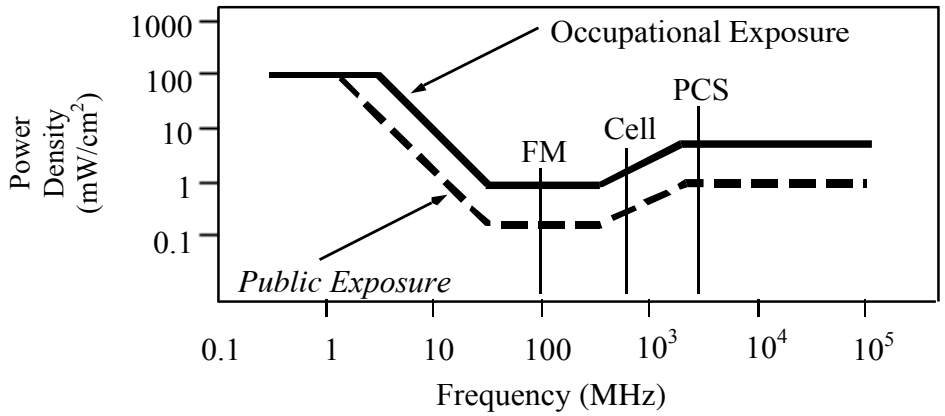
February 20, 2018

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



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.

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 $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm^2,

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/cm^2,

where θ_{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:

power density $S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}$, 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.

Verizon Wireless • Proposed DAS Node (No. 473024 "CC Seaside 001")
1108 San Lucas Street • Seaside, California

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 the addition of Node No. 473024 "CC Seaside 001" to the Verizon distributed antenna system ("DAS") in Seaside, 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 the utility pole sited in the public right-of-way near 1108 San Lucas Street in Seaside. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standards

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 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 most restrictive limit for exposures of unlimited duration at several wireless service bands are as follows:

Wireless Service Band	Transmit Frequency	"Uncontrolled" Public Limit	Occupational Limit (5 times Public)
Microwave (point-to-point)	1–80 GHz	1.0 mW/cm^2	5.0 mW/cm^2
Millimeter-wave	24–47	1.0	5.0
Part 15 (WiFi & other unlicensed)	2–6	1.0	5.0
BRS (Broadband Radio)	2,490 MHz	1.0	5.0
WCS (Wireless Communication)	2,305	1.0	5.0
AWS (Advanced Wireless)	2,110	1.0	5.0
PCS (Personal Communication)	1,930	1.0	5.0
Cellular	869	0.58	2.9
SMR (Specialized Mobile Radio)	854	0.57	2.85
700 MHz	716	0.48	2.4
[most restrictive frequency range]	30–300	0.20	1.0

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

General Facility Requirements

Wireless nodes typically consist of two distinct parts: the electronic transceivers (also called "radios" or "channels") that are connected to a central "hub" (which in turn are connected to the traditional

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wired telephone lines), and the passive antenna(s) that send the wireless signals created by the radios out to be received by individual subscriber units. The radios are often located on the same pole as the antennas and 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 SAC AE Design Group, Inc., dated April 3, 2019, it is proposed to install one Amphenol Model CUUT360X12F, 4-foot tall, omnidirectional* cylindrical antenna on top of the utility pole sited in the public right-of-way in front of the single-story residence at 1108 San Lucas Street in Seaside. The antenna would employ 4° downtilt and would be mounted at an effective height of about 42½ feet above ground. The maximum effective radiated power proposed in any direction is 1,300 watts, representing simultaneous operation at 680 watts for AWS and 620 watts for PCS service. There are reported no other wireless telecommunications 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/cm^2, which is 1.0% of the applicable public exposure limit. The maximum calculated level at the top-floor elevation of any nearby building† is 0.63% 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.

* Assumed to be omnidirectional, although manufacturer's patterns show reduced power in certain directions.
† Located at least 20 feet away, based on photographs from Google Maps.

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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 be provided to all workers who have access within 10 feet directly at the antenna itself. No access within 2 feet directly in front of the antenna, such as might occur during certain maintenance activities high on the pole, should be allowed while the antenna is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that explanatory signs‡ be posted at the antenna and/or on the pole below the antenna, readily visible from any angle of approach.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the DAS node proposed by Verizon Wireless near 1108 San Lucas Street in Seaside, 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 nodes. Training authorized personnel and posting explanatory signs are recommended to establish compliance with occupational exposure limits.

‡ Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (*e.g.*, a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter, and guidelines from the landlord, local zoning or health authority, or appropriate professionals may be required. Signage may also need to comply with the requirements of California Public Utilities Commission General Order No. 95.

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Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration No. E-21306, which expires on September 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.



Neil J. Olij, P.E.
707/996-5200

June 3, 2019

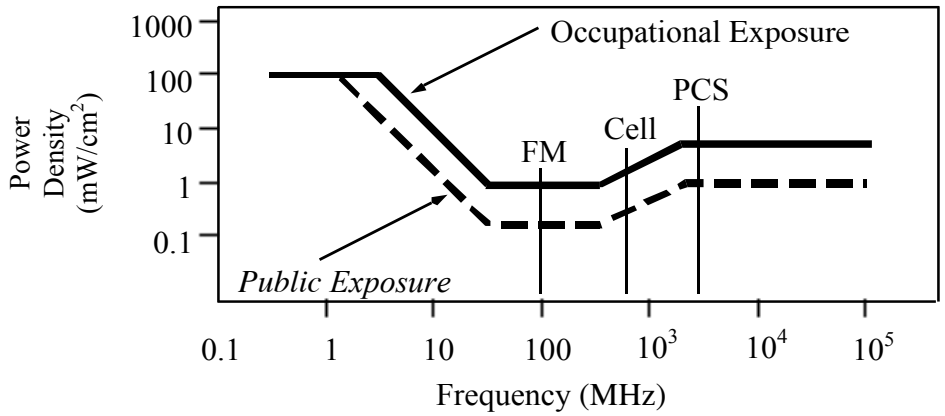
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FCC Radio Frequency Protection Guide

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



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.

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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 $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm^2,

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/cm^2,

where θ_{BW} = half-power beamwidth of antenna, in degrees,
P_{net} = net power input to antenna, in watts,
D = distance from antenna, in meters,
h = aperture height of 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:

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

where ERP = total ERP (all polarizations), in kilowatts,
RFF = three-dimensional relative field factor toward point of calculation, and
D = distance from antenna effective height to 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 is used in a computer program capable of calculating, at thousands of locations on an arbitrary grid, the total expected power density from any number of individual radio frequency sources. The program also allows for the inclusion of uneven terrain in the vicinity, as well as any number of nearby buildings, to obtain more accurate projections.

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Verizon Wireless • Proposed DAS Node (Site No. 473028 "CC Seaside 004")
1431 Waring Street • Seaside, California

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 the addition of Node No. 473028 "CC Seaside 004" to the Verizon distributed antenna system ("DAS") in Seaside, 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 1431 Waring Street in Seaside. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standards

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 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 most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

Wireless Service Band	Transmit Frequency	"Uncontrolled" Public Limit	Occupational Limit (5 times Public)
Microwave (point-to-point)	1–80 GHz	1.0 mW/cm^2	5.0 mW/cm^2
Millimeter-wave	24–47	1.0	5.0
Part 15 (WiFi & other unlicensed)	2–6	1.0	5.0
BRS (Broadband Radio)	2,490 MHz	1.0	5.0
WCS (Wireless Communication)	2,305	1.0	5.0
AWS (Advanced Wireless)	2,110	1.0	5.0
PCS (Personal Communication)	1,930	1.0	5.0
Cellular	869	0.58	2.9
SMR (Specialized Mobile Radio)	854	0.57	2.85
700 MHz	716	0.48	2.4
[most restrictive frequency range]	30–300	0.20	1.0

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

General Facility Requirements

Wireless nodes typically consist of two distinct parts: the electronic transceivers (also called "radios" or "channels") that are connected to a central "hub" (which in turn are connected to the traditional wired telephone lines), and the passive antenna(s) that send the wireless signals created by the radios out to be received by individual subscriber units. The radios are often located on the same pole as the antennas and 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 attached 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 SAC AE Design Group, Inc., dated November 27, 2018, it is proposed to install one Amphenol Model CUUT360X12F, 4-foot tall, omnidirectional* cylindrical antenna on top of a new utility pole to replace the existing utility pole sited in the public right-of-way across the street from the single-story residence at 1431 Waring Street in Seaside. The antenna would employ 4° downtilt and would be mounted at an effective height of about 42½ feet above ground. The maximum effective radiated power proposed in any direction is 1,580 watts, representing simultaneous operation at 840 watts for AWS and 740 watts for PCS service. There are reported no other wireless telecommunications base stations at this 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 0.0054 mW/cm^2, which is 0.54% of the applicable public exposure limit.

* Assumed to be omnidirectional, although manufacturer's patterns show reduced power in certain directions.

The maximum calculated level any nearby building† is 0.79% 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.

Recommended Mitigation Measures

Due to its mounting location and height, the Verizon 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. 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 near the antenna.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the DAS node proposed by Verizon Wireless at 1431 Waring Street in Seaside, 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 nodes. Training authorized personnel and posting explanatory signs are recommended to establish compliance with occupational exposure limits.

† Including the adjacent two-story residential building located about 25 feet to the west, based on the drawings.

‡ Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (*e.g.*, a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter, and guidance from the landlord, local zoning or health authority, or appropriate professionals may be required.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire 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.



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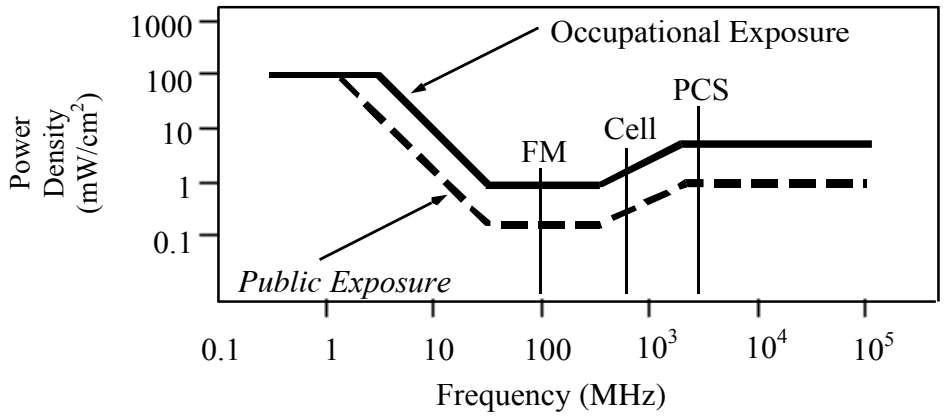
February 5, 2019

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



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.

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 $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm^2,

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/cm^2,

where θ_{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:

power density $S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}$, 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.

Verizon Wireless • Proposed DAS Node (Site No. 473025 "CC Seaside 002")
1268 Yosemite Street • Seaside, California

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 the addition of Node No. 473025 "CC Seaside 002" to be added to the Verizon distributed antenna system ("DAS") in Seaside, 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 1268 Yosemite Street in Seaside. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standards

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 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 most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

Wireless Service Band	Transmit Frequency	"Uncontrolled" Public Limit	Occupational Limit (5 times Public)
Microwave (point-to-point)	1–80 GHz	1.0 mW/cm^2	5.0 mW/cm^2
Millimeter-wave	24–47	1.0	5.0
Part 15 (WiFi & other unlicensed)	2–6	1.0	5.0
BRS (Broadband Radio)	2,490 MHz	1.0	5.0
WCS (Wireless Communication)	2,305	1.0	5.0
AWS (Advanced Wireless)	2,110	1.0	5.0
PCS (Personal Communication)	1,930	1.0	5.0
Cellular	869	0.58	2.9
SMR (Specialized Mobile Radio)	854	0.57	2.85
700 MHz	716	0.48	2.4
[most restrictive frequency range]	30–300	0.20	1.0

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

General Facility Requirements

Wireless nodes typically consist of two distinct parts: the electronic transceivers (also called "radios" or "channels") that are connected to a central "hub" (which in turn are connected to the traditional wired telephone lines), and the passive antenna(s) that send the wireless signals created by the radios out to be received by individual subscriber units. The radios are often located on the same pole as the antennas and 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 attached 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 SAC AE Design Group, Inc., dated October 3, 2018, it is proposed to install one Amphenol Model CUUT360X12F, 4-foot tall omnidirectional* cylindrical antenna on top of a new pole to be sited at the northeast corner of the intersection between Yosemite Street and Wanda Avenue in Seaside, next to Elwood Williams II Park. The antenna would employ 4° downtilt and would be mounted at an effective height of about 23½ feet above ground. The maximum effective radiated power proposed in any direction is 1,580 watts, representing simultaneous operation at 840 watts for AWS and 740 watts for PCS service. There are reported no other wireless telecommunications base stations at this 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 0.017 mW/cm^2, which is 1.7% of the applicable public exposure limit.

* Assumed to be omnidirectional, although manufacturer's patterns show reduced power in certain directions.

The maximum calculated level at the second-floor elevation of any nearby building is 10% 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.

No Recommended Mitigation Measures

Due to its mounting location and height, the Verizon antenna would not be accessible to unauthorized persons, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. It is presumed that Verizon will, as an FCC licensee, take adequate steps to ensure that its employees or contractors receive appropriate training and comply with FCC occupational exposure guidelines whenever work is required near the antennas themselves.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the DAS node proposed by Verizon Wireless near 1268 Yosemite Street in Seaside, 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 nodes.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire 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.



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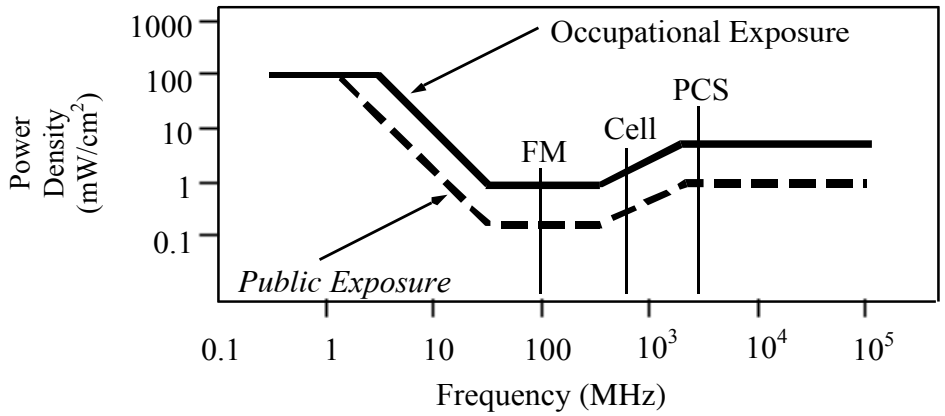
February 5, 2019

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



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.

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 $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm^2,

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/cm^2,

where θ_{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:

power density $S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}$, 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.