

Public Works Department - Engineering Division
One North San Antonio Road, Los Altos, California 94022-3087
Phone (650) 947-2780 Fax (650) 947-2732

ENCROACHMENT PERMIT No. E19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed plan/drawing showing the proposed work):

LOCATION OF WORK: 141 Almond Ave

TYPE OF WORK: Install equipment on new utility pole. (PG&E to perform pole replacement under separate excavation permit)

CONTRACTOR: Ericsson, Delbert Butcher PHONE # 720-317-7282

OWNER: PG&E, Jwo Cheng PHONE # 650-515-9842

APPLICANT: AT&T Mobility (New Cingular Wireless PCS), Ivan Toews, SureSite Consulting, Agent PHONE # 949-278-2962

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads.
A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any work in the traveled way section of a street.
Applicant to construct Driveway/Walkway approach to the back of the existing rolled curb, without tying to the existing curb (cold joint).
All work done in the City ROW shall comply with the City's Shoulder Paving Policy.
Applicant shall provide adequate drainage with 3' wide AC swale (minimum of 4" AB plus 2" AC or 4" AC on compacted subbase is required) and conforms to existing street drainage.
Contractor will be required to saw cut along the existing road pavement due to severe damaged edge.
New sidewalk or curb shall be constructed per City Standards and connected to existing sidewalk or curb with #4, 16" long dowels @ 12" o.c. All saw cuts to be done at existing joints.
Comments:

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ DATE: _____

ISSUED BY: _____ DATE: _____

SIGNATURE

INSPECTED BY: _____ FINAL INSPECTION DATE: _____

ATTACHMENT:

YES \$196.00 CREDIT CHECK CASH
NO Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original - Inspector Copies: Applicant and Finance

PERMIT VALID FOR 60 DAYS
(See other side for General Requirements)

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** This permit is valid for **sixty (60) days** from the approval date unless otherwise noted.
- H.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- I.** Use of a Flashing Arrow Panel is **MANDATORY** when work location is within a 35 MPH speed zone.
- J.** Traffic conditions and adequate protection of the public in the vicinity of the job site shall be the responsibility of the applicant. During construction activities, two-way traffic shall be maintained. A minimum of one traffic lane shall be kept passable and under the control of competent flag persons. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable.
- K.** Any damage to painted street pavement delineations, markings or reflectors and painted curbs shall be restored as approved by the Engineer.
- L.** Excavations within the asphalt street section shall be backfilled before leaving the work for the night, unless otherwise authorized by the City's representative. Temporary surfacing shall be placed on the trench surface overnight.
- M.** All trench backfill requires certified compaction test to 95% density or greater for each lift (Maximum lift of 12") or use Controlled Density Fill (CDF) as approved.
- N.** All work shall be performed in accordance with the latest issue of Cal O.S.H.A. Safety Orders. The City has not checked trench safety and trench safety is not implied with this permit.
- O.** Landscaping is **NOT** to be disturbed any more than absolutely necessary. Restoration shall be to property owner's satisfaction.
- P.** Drainage patterns during construction shall be maintained to insure that surface drainage is properly managed and surrounding areas are protected from damage. Restoration must be to grades necessary to maintain original condition and maintain proper drainage flow lines.

Q. Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

R. All saw cut sludge/slurry should be immediately removed by means of a vacuum system.

EXHIBIT B INSURANCE

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022

Minimum Scope of Insurance

Coverage shall be *at least as broad as*:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.

3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.

4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability

insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.

6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*

9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

TEMPORARY LANE CLOSURE PERMIT LC19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed drawing showing the proposed location(s)):

LOCATION: 141 Almond Ave
 TYPE OF WORK: Install equipment on new utility pole. (PG&E to perform pole replacement under separate excavation permit)
 DATE(S) REQUESTED: 3/21/2019
 CONTRACTOR: Ericsson, Delbert Butcher PHONE # 720-317-7282
 OWNER: PG&E, Jwo Cheng PHONE # 650-515-9842
 APPLICANT: AT&T Mobility (New Cingular Wireless PCS), PHONE # 949-278-2962
Ivan Toews, SureSite Consulting, Agent

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any lane or road closure.
- Comments:**

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ DATE: _____
 ISSUED BY: _____ DATE: _____
 _____ SIGNATURE
 INSPECTED BY: _____ FINAL INSPECTION DATE: _____

| | |
|---|------------------|
| APPLICATION FEE (includes the first day): | \$ 505.00 |
| 0 additional days at \$62/day: | \$ - |
| TOTAL FEES: | \$ 505.00 |

ATTACHMENT:

YES Traffic Control Plan CREDIT CHECK CASH
 NO _____ Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant, Police Department, and Finance

PERMIT VALID FOR _____ DAYS
 See other side for General Requirements

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

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**EXHIBIT B
INSURANCE**

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Minimum Scope of Insurance

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Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

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7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.

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Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Radio Frequency Emissions Compliance Report For AT&T Mobility

| | |
|--|--|
| Site Name: CRAN_RSFR_LOSA0_01 | Site Structure Type: Utility Pole |
| Address: 141 Almond Avenue Los Altos, California | Latitude: 37.38507 |
| Report Date: October 26, 2018 | Longitude: -122.11019 |
| | Project: New Build |

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN_RSFR_LOSA0_01 site located at 141 Almond Avenue, Los Altos, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure (“MPE”) limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

| Frequency (MHz) | <i>Limits for General Population/ Uncontrolled Exposure</i> | | <i>Limits for Occupational/ Controlled Exposure</i> | |
|-----------------|---|--------------------------|---|--------------------------|
| | Power Density (mW/cm ²) | Averaging Time (minutes) | Power Density (mW/cm ²) | Averaging Time (minutes) |
| 30-300 | 0.2 | 30 | 1 | 6 |
| 300-1500 | f/1500 | 30 | f/300 | 6 |
| 1500-100,000 | 1.0 | 30 | 5.0 | 6 |

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install 1 KMW FX-OM2L1OH2 Cylindrical Antenna
- Install 1 4415 Radio
- Install 1 RRUS-11 Radio

The antenna will be mounted on a 37.5-foot Utility Pole with a centerline 46 feet above ground level. The antenna is quasi-omni directional and will radiate in all directions. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 987 Watts. Other appurtenances such as GPS antennas, RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700 MHz and 1900 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The quasi-omni directional antenna to be employed at this site is operating at relatively low power and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antenna. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.3760% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.9615 % of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

For areas on the pole that are predicted to exceed the General Population limits, Waterford Consultants, LLC recommends that AT&T Mobility post an RF alerting sign (Caution) on the pole 41 feet above ground level to be visible upon approach by authorized personnel to provide notification of potential conditions above this level. This recommendation is depicted in Figure 2. Any work activity in front of transmitting antennas should be coordinated with AT&T Mobility.

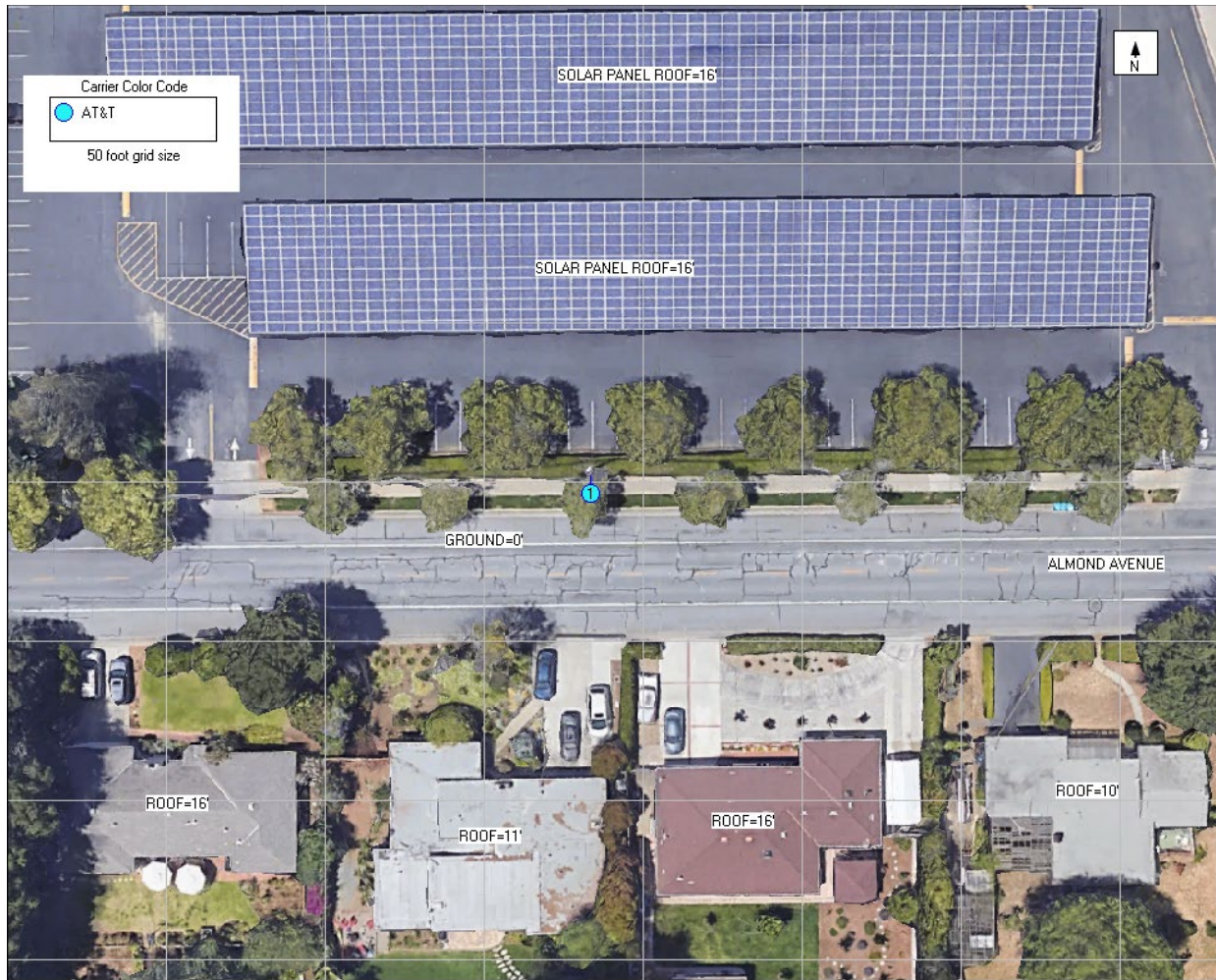


Figure 1: Antenna Locations

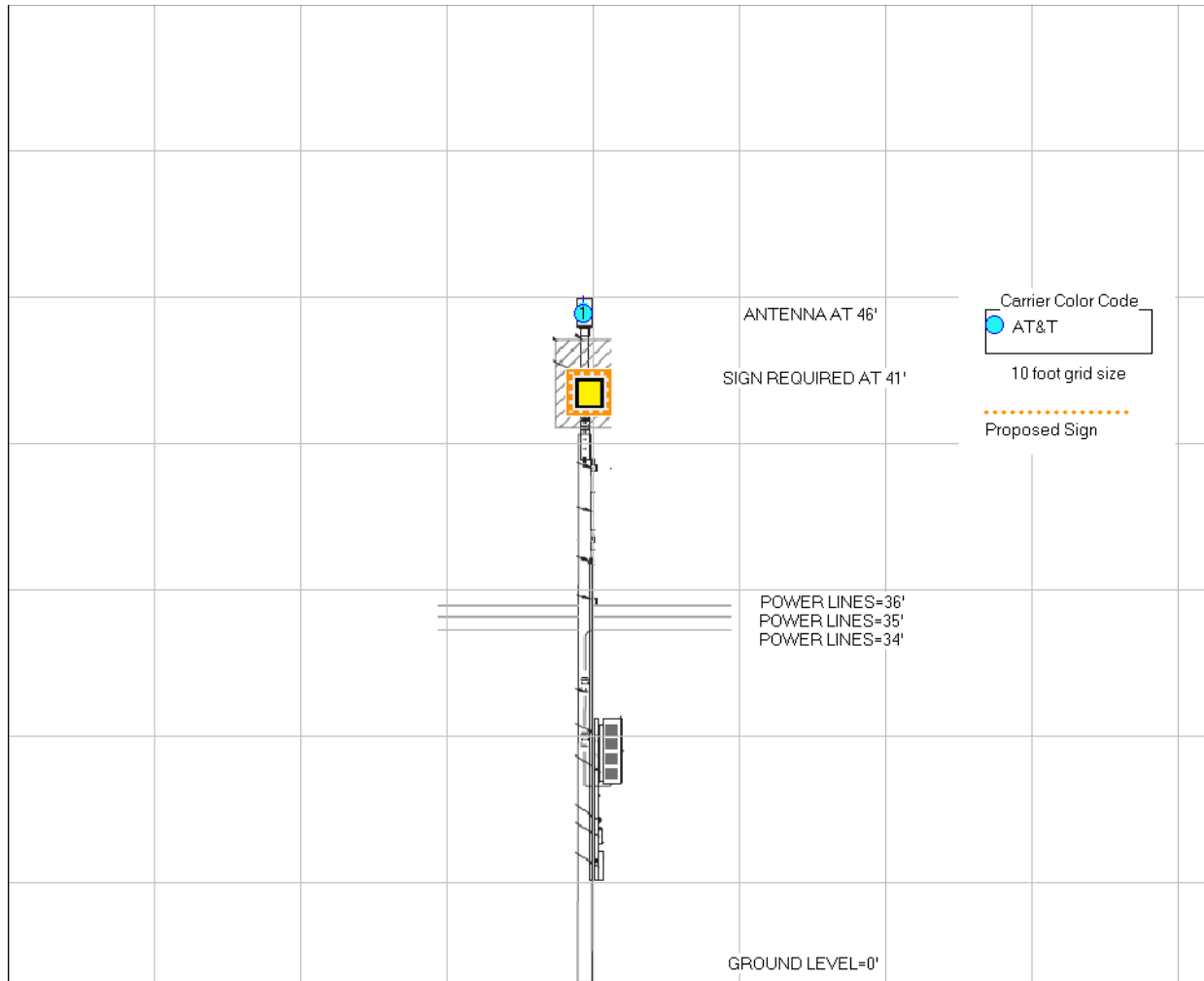


Figure 2: Mitigation Recommendations

 Caution

Compliance Statement

Based on information provided by AT&T Mobility, predictive modeling and the mitigation action to be implemented by AT&T Mobility, the installation proposed by AT&T Mobility at 141 Almond Avenue, Los Altos, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to these areas to authorized personnel that have completed RF safety training is required for Occupational environment compliance.

Certification

I, David H. Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.





PRECISION DESIGN

October 31, 2018

**Suresite for AT&T
36 Executive Park, Suite 210
Irvine, CA 92614**

Subj: CRAN_RSFR_LOSA0_001

We have analyzed the wood pole at ROW adjacent to 141 Almond Avenue, Los Altos, CA 94022 (37.385081, -122.110181) using O-Calc Pro 5.03 Utility Pole software.

Data for the wood pole was obtained from a previous site walk and photographs on May 23, 2018, as well as Google Earth images. Proposed equipment is provided by our client. Based on our analysis the pole with proposed loading is at 25.6% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

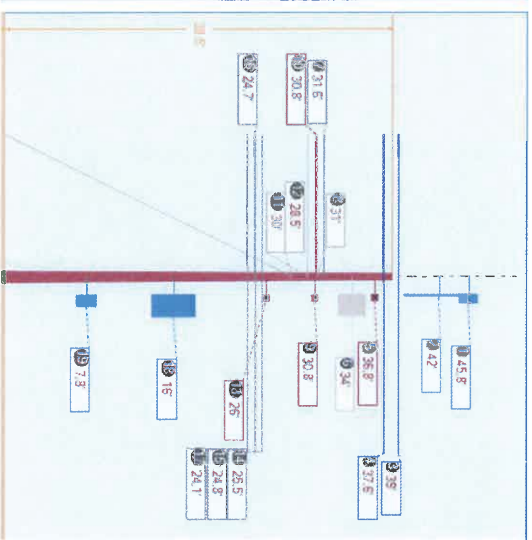
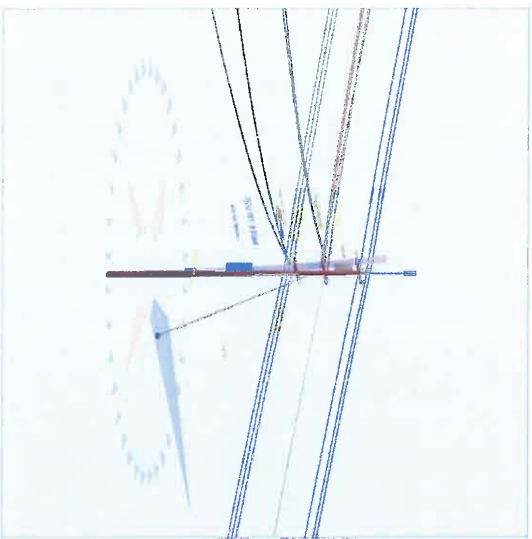
Bret McComb, P.E.



Attachments:

1. O-Calc Output: 5 pages
2. Pole Size Chart: 1 page

Pole Num: CRAN_RSFR_LOSA0_01 **Pole Length / Class:** 45 / 3 **Code:** GO 95 **Structure Type:** Guyed Tangent
Aux Data 1 **Unset Species:** DOUGLAS FIR **NESC Rule:** - **Status:** B **Pole Strength Factor:** Guy Wires Adequate
Aux Data 2 **Unset Setting Depth (ft):** 6.50 **Construction Grade:** **Light Transverse Wind LF:** 0.50
Aux Data 3 **Unset G/L Circumference (in):** 37.31 **Loading District:** **Wire Tension LF:** 1.00
Aux Data 4 **Unset G/L Fiber Stress (psi):** 8,000 **Ice Thickness (in):** 0.00 **Vertical LF:** 1.00
Aux Data 5 **Unset Allowable Stress (psi):** 3,934 **Wind Speed (mph):** 55.90 **Vertical LF:** 1.00
Aux Data 6 **Unset Fiber Stress Ht. Reduc:** No **Wind Pressure (psf):** 8.00
Latitude: **37.385081 Deg** **Longitude:** **-122.110181 Deg** **Elevation:** **147.2 Feet**



| Pole Capacity Utilization (%) | Height (ft) | Wind Angle (deg) |
|-----------------------------------|-------------|------------------|
| Crossarm allowance 300 lbs | | |
| Maximum | 25.6 | 28.7 |
| Groundline | 19.9 | 0.0 |
| Vertical | 5.2 | 26.9 |

| Pole Moments (ft-lb) | Load Angle (deg) | Wind Angle (deg) |
|-----------------------------------|------------------|------------------|
| Crossarm allowance 300 lbs | | |
| Max Cap Util | 4,438 | 187.5 |
| Groundline | 10,709 | 191.1 |
| GL Allowable | 53,934 | 184.8 |

Guy System Component Summary

| Description | Lead Length (ft) | Lead Angle (deg) | Height (ft) | Load From Worst Wind Angle on Pole | | Individual Maximum Load | |
|---------------------------------|------------------|------------------|-------------|------------------------------------|------------------|-------------------------|------------------|
| | | | | Nominal Capacity (%) | Wind Angle (deg) | Max Load Capacity (%) | Wind Angle (deg) |
| ▶ Anchor | 171.0 | 90.0 | 31.0 | 7.1 | 181.2 | 10.1 | 270.0 |
| • EHS 3/8 (Span/Head) | | | | 9.2 | 181.2 | 13.1 | 270.0 |
| ▶ Anchor | 214.0 | 270.0 | 30.0 | 0.0 | 181.2 | 0.0 | 0.0 |
| • EHS 3/8 (Span/Head) | | | | 0.0 | 181.2 | 0.0 | 0.0 |
| ▶ Single - 14" - Soil Class 4 | 15.0 | 0.0 | 28.5 | 13.5 | 181.2 | 13.5 | 180.0 |
| • EHS 7/32 (Down) | | | | 77.7 | 181.2 | 77.7 | 180.0 |
| System Capacity Summary: | | | | Adequate | | Adequate | |

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 191.1°

| | Shear Load* (lbs) | Applied Load (%) | Bending Moment (ft-lb) | Applied Moment (%) | Pole Capacity (%) | Bending Stress (+/- psi) | Vertical Load (lbs) | Vertical Stress (psi) | Total Stress (psi) | Pole Capacity (%) |
|-----------------------|-------------------|------------------|------------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|--------------------|-------------------|
| Powers | 484 | 97.8 | 14,245 | 133.0 | 26.4 | 1,173 | 108 | 1 | 1,174 | 29.8 |
| Comms | 1,161 | 234.6 | 28,039 | 261.8 | 52.0 | 2,309 | 303 | 3 | 2,312 | 58.8 |
| GuyBraces | -1,568 | -316.9 | -39,968 | -373.2 | -74.1 | -3,291 | 2,853 | 26 | -3,265 | -83.0 |
| GenericEquipments | 110 | 22.3 | 2,117 | 19.8 | 3.9 | 174 | 226 | 2 | 176 | 4.5 |
| PowerEquipments | 41 | 8.3 | 1,314 | 12.3 | 2.4 | 108 | 335 | 3 | 111 | 2.8 |
| Pole | 243 | 49.1 | 4,160 | 38.8 | 7.7 | 343 | 1,183 | 11 | 353 | 9.0 |
| Crossarms | 4 | 0.9 | 132 | 1.2 | 0.2 | 11 | 108 | 1 | 12 | 0.3 |
| Insulators | 20 | 4.0 | 672 | 6.3 | 1.3 | 55 | 117 | 1 | 56 | 1.4 |
| Pole Load | 495 | 100.0 | 10,709 | 100.0 | 19.9 | 882 | 5,233 | 47 | 929 | 23.6 |
| Pole Reserve Capacity | | | 43,225 | | 80.1 | 3,053 | | | 3,005 | 76.4 |

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 191.1°

| | Shear Load* (lbs) | Applied Load (%) | Bending Moment (ft-lb) | Applied Moment (%) | Pole Capacity (%) | Bending Stress (+/- psi) | Vertical Load (lbs) | Vertical Stress (psi) | Total Stress (psi) | Pole Capacity (%) |
|----------------|-------------------|------------------|------------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|--------------------|-------------------|
| <Undefined> | 252 | 50.9 | 6,549 | 61.2 | 12.1 | 539 | 4,050 | 37 | 576 | 14.6 |
| Pole | 243 | 49.1 | 4,160 | 38.8 | 7.7 | 343 | 1,183 | 11 | 353 | 9.0 |
| Totals: | 495 | 100.0 | 10,709 | 100.0 | 19.9 | 882 | 5,233 | 47 | 929 | 23.6 |

Detailed Load Components:

| Power | Owner | Height (ft) | Horiz. Offset (in) | Cable Diameter (in) | Sag at Max Temp (ft) | Cable Weight (lbs/ft) | Lead/Span Length (ft) | Span Angle (deg) | Wire Length (ft) | Tension (lbs) | Tension Moment* (ft-lb) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|-----------|----------------------------|-------------|--------------------|---------------------|----------------------|-----------------------|-----------------------|------------------|------------------|---------------|-------------------------|------------------------|----------------------|-----------------------|
| Secondary | TRIPILEX 6 AWG | 30.83 | 32.79 | 0.5800 | 3.23 | 0.113 | 214.0 | 270.0 | 214.1 | 357 | 2,115 | -3 | 1,252 | 3,364 |
| Secondary | TRIPILEX 6 AWG | 30.83 | 32.79 | 0.5800 | 3.23 | 0.113 | 214.0 | 270.0 | 214.1 | 357 | 2,115 | 4 | 1,252 | 3,371 |
| Secondary | TRIPILEX 6 AWG | 30.83 | 23.91 | 0.5800 | 3.23 | 0.113 | 214.0 | 270.0 | 214.1 | 357 | 2,115 | 3 | 1,252 | 3,370 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 37.60 | 30.50 | 0.4140 | 1.81 | 0.125 | 214.0 | 270.0 | 214.0 | 1,000 | 7,230 | -32 | 1,090 | 8,288 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 37.60 | 30.50 | 0.4140 | 1.26 | 0.125 | 171.0 | 90.0 | 171.0 | 1,000 | -7,230 | -25 | 871 | -6,384 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 37.60 | 30.50 | 0.4140 | 1.81 | 0.125 | 214.0 | 270.0 | 214.0 | 1,000 | 7,230 | 34 | 1,090 | 8,354 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 37.60 | 30.50 | 0.4140 | 1.26 | 0.125 | 171.0 | 90.0 | 171.0 | 1,000 | -7,230 | 27 | 871 | -6,332 |

| | | | | | | | | | | | | | | |
|----------------|-------------------------------|-------|------|--------|------|-------|-------|-------|-------|--------|--------------|-----------|--------------|---------------|
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 39.02 | 8.15 | 0.4140 | 1.81 | 0.125 | 214.0 | 270.0 | 214.0 | 7,499 | 8 | 1,131 | 8,637 | |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 39.02 | 8.15 | 0.4140 | 1.26 | 0.125 | 171.0 | 90.0 | 171.0 | -7,499 | 6 | 903 | -6,589 | |
| Totals: | | | | | | | | | | | 6,346 | 22 | 9,711 | 16,079 |

| Comm | Owner | Height (ft) | Horiz. Offset (in) | Cable Diameter (in) | Sag at Max Temp (ft) | Cable Weight (lbs/ft) | Lead/Span Length (ft) | Span Angle (deg) | Wire Length (ft) | Tension (lbs) | Tension Moment* (ft-lb) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|----------------|-------|-------------|--------------------|---------------------|----------------------|-----------------------|-----------------------|------------------|------------------|---------------|-------------------------|------------------------|----------------------|-----------------------|
| Telco | | 31.60 | 30.57 | 1.0000 | 3.03 | 0.400 | 104.0 | 184.0 | 104.3 | 200 | 6,274 | 31 | -6 | 6,298 |
| Telco | | 31.60 | 30.57 | 1.0000 | 2.59 | 0.400 | 96.0 | 179.0 | 96.2 | 200 | 6,181 | 25 | 8 | 6,214 |
| Telco | | 25.50 | 6.93 | 1.0000 | 2.41 | 0.400 | 171.0 | 90.0 | 171.0 | 2,000 | -9,801 | 19 | 1,426 | -8,356 |
| Telco | | 25.50 | 6.93 | 1.0000 | 3.16 | 0.400 | 214.0 | 270.0 | 214.0 | 2,000 | 9,801 | 24 | 1,785 | 11,610 |
| Telco | | 24.80 | 6.97 | 1.0000 | 2.41 | 0.400 | 171.0 | 90.0 | 171.0 | 2,000 | -9,532 | 19 | 1,387 | -8,126 |
| Telco | | 24.80 | 6.97 | 1.0000 | 3.16 | 0.400 | 214.0 | 270.0 | 214.0 | 2,000 | 9,532 | 24 | 1,736 | 11,292 |
| Telco | | 24.73 | 24.99 | 1.0000 | 3.70 | 0.400 | 113.0 | 190.0 | 113.3 | 200 | 4,899 | 4 | -3 | 4,900 |
| Telco | | 24.73 | 24.99 | 1.0000 | 4.00 | 0.400 | 118.0 | 175.0 | 118.4 | 200 | 4,708 | 4 | 29 | 4,741 |
| Telco | | 24.08 | 7.01 | 1.0000 | 2.41 | 0.400 | 171.0 | 90.0 | 171.0 | 2,000 | -9,256 | 20 | 1,347 | -7,890 |
| Telco | | 24.08 | 7.01 | 1.0000 | 3.16 | 0.400 | 214.0 | 270.0 | 214.0 | 2,000 | 9,256 | 25 | 1,686 | 10,967 |
| Totals: | | | | | | | | | | | 22,061 | 196 | 9,394 | 31,650 |

| Generic Equipment | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|-------------------|-------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|--------------------|------------------|------------------------|----------------------|-----------------------|
| Box | | 7.75 | 7.79 | 270.0 | 0.0 | 10.00 | 24.00 | 4.63 | -- | 12.00 | 1 | 76 | 77 |
| Box | | 16.00 | 12.99 | 270.0 | 0.0 | 130.00 | 53.00 | 16.00 | -- | 23.00 | 27 | 1,191 | 1,218 |
| Cylinder | | 42.00 | 0.05 | 0.0 | 0.0 | 53.06 | 84.00 | -- | 3.00 | -- | 0 | 579 | 580 |
| Cylinder | | 45.75 | 0.20 | 0.0 | 0.0 | 33.10 | 23.60 | -- | 9.50 | -- | -1 | 515 | 515 |
| Totals: | | | | | | | | | | | 28 | 2,361 | 2,389 |

| Power Equipment | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|-----------------|-------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|--------------------|------------------|------------------------|----------------------|-----------------------|
| Transformer | | 34.00 | 16.93 | 270.0 | 270.0 | 335.00 | 34.00 | -- | 22.00 | -- | 91 | 1,392 | 1,483 |
| Totals: | | | | | | | | | | | 91 | 1,392 | 1,483 |

| Crossarm | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|----------|-------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|--------------------|------------------|------------------------|----------------------|-----------------------|
| Normal | | 26.00 | 6.15 | 270.0 | 270.0 | 28.00 | 4.50 | 4.50 | 3.50 | 48.00 | 3 | 38 | 41 |
| Normal | | 30.83 | 5.86 | 270.0 | 270.0 | 40.00 | 4.50 | 4.50 | 3.50 | 72.00 | 4 | 46 | 50 |

| | | | | | | | | | | | | | |
|----------------|----------------------------|-------|------|-------|-------|-------|------|------|-------|---|-----------|------------|------------|
| Normal | CROSSARM 3-1/2 X 4-1/2 X 6 | 36.83 | 5.51 | 270.0 | 270.0 | 40.00 | 4.50 | 3.50 | 72.00 | 4 | 55 | 59 | |
| Totals: | | | | | | | | | | | 10 | 139 | 149 |

| Insulator | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) | | |
|----------------|------------------------|-------------|--------------------|--------------------|--------------------|-------------------|--------------------|------------------|------------------------|----------------------|-----------------------|------------|------------|
| Post | Post Insulator - 15 KV | 31.02 | -30.00 | 191.1 | 0.0 | 11.00 | 4.75 | 7.00 | 28 | 57 | 85 | | |
| Deadend | Deadend 12.75" | 30.83 | 27.00 | 347.7 | 0.0 | 3.00 | 3.80 | 12.75 | -6 | 82 | 76 | | |
| Deadend | Deadend 12.75" | 30.83 | -27.00 | 192.3 | 0.0 | 3.00 | 3.80 | 12.75 | 8 | 82 | 89 | | |
| Deadend | Deadend 12.75" | 30.83 | -15.00 | 201.4 | 0.0 | 3.00 | 3.80 | 12.75 | 5 | 82 | 86 | | |
| Post | Post Insulator - 15 KV | 37.02 | 30.00 | 349.6 | 0.0 | 11.00 | 4.75 | 7.00 | -26 | 68 | 42 | | |
| Post | Post Insulator - 15 KV | 37.02 | -30.00 | 190.4 | 0.0 | 11.00 | 4.75 | 7.00 | 28 | 68 | 96 | | |
| Davit | Insulator, 15 KV | 37.02 | -6.00 | 222.6 | 0.0 | 60.00 | 5.00 | 24.00 | 35 | 242 | 277 | | |
| Bolt | Single Bolt | 25.50 | 0.00 | 180.0 | 180.0 | 5.00 | 3.00 | 3.00 | 0.00 | 3 | 3 | | |
| Bolt | Single Bolt | 24.80 | 0.00 | 180.0 | 180.0 | 5.00 | 3.00 | 3.00 | 0.00 | 3 | 3 | | |
| Bolt | Single Bolt | 24.08 | 0.00 | 180.0 | 180.0 | 5.00 | 3.00 | 3.00 | 0.00 | 3 | 3 | | |
| Totals: | | | | | | | | | | | 80 | 679 | 759 |

| Guy Wire and Brace | Owner | Attach Height (ft) | End Height (ft) | Lead/Span Length (ft) | Wire Diameter (in) | Percent Solid (%) | Lead Angle (deg) | Incline Angle (deg) | Wire Weight (lbs/ft) | Rest Length (ft) | Stretch Length (in) |
|--------------------|-----------|--------------------|-----------------|-----------------------|--------------------|-------------------|------------------|---------------------|----------------------|------------------|---------------------|
| EHS 3/8 | Span/Head | 31.00 | 31.00 | 171.00 | 0.375 | 75.00 | 90.0 | 0.0 | 0.273 | 168.28 | 1.12 |
| EHS 3/8 | Span/Head | 30.00 | 30.00 | 214.00 | 0.375 | 75.00 | 270.0 | 0.0 | 0.273 | 211.25 | 0.00 |
| EHS 7/32 | Down | 28.50 | 0.00 | 15.00 | 0.219 | 75.00 | 0.0 | 62.0 | 0.096 | 37.94 | 2.21 |

| Guy Wire and Brace (Loads and Reactions) | Elastic Modulus (psi) | Rated Tensile Strength (lbs) | Guy Strength Factor | Allowable Tension (lbs) | Initial Tension (lbs) | Loaded Tension** (lbs) | Maximum Tension² (lbs) | Applied Tension³ (lbs) | Vertical Load (lbs) | Shear Load In Guy Dir (lbs) | Shear Load At Report Angle (lbs) | Moment at GL⁴ (ft-lb) | | |
|--|-----------------------|------------------------------|---------------------|-------------------------|-----------------------|------------------------|------------------------|------------------------|---------------------|-----------------------------|----------------------------------|-----------------------|---------------|----------------|
| EHS 3/8 | Span/Head | 2.30e+7 | 15,400 | 0.75 | 11,550 | 2,000 | 1,515 | 1,058 | 0 | 1,058 | -203 | -5,661 | | |
| EHS 3/8 | Span/Head | 2.30e+7 | 15,400 | 0.75 | 11,550 | 700 | 0 | 0 | 0 | 0 | 0 | 792 | | |
| EHS 7/32 | Down | 2.30e+7 | 5,400 | 0.75 | 4,050 | 700 | 3,147 | 3,146 | 2,779 | 1,476 | -1,449 | -40,248 | | |
| Totals: | | | | | | | | | | | 2,779 | 2,534 | -1,652 | -45,117 |

| Anchor/Rod Load Summary | Owner | Rod Length AGL (in) | Lead Length (ft) | Lead Angle (deg) | Strength of Assembly (lbs) | Anchor/Rod Strength Factor | Allowable Load (lbs) | Max Load² (lbs) | Load at Pole MCU³ (lbs) | Max Required Capacity⁴ (%) |
|-----------------------------|-------|---------------------|------------------|------------------|----------------------------|----------------------------|----------------------|-----------------|-------------------------|----------------------------|
| Anchor | | 30.00 | 171.00 | 90.0 | 20,000 | 0.75 | 15,000 | 1,515 | 1,058 | 10.1 |
| Anchor | | 30.00 | 214.00 | 270.0 | 20,000 | 0.75 | 15,000 | 0 | 0 | 0.0 |
| Single - 14" - Soil Class 4 | | 0.00 | 15.00 | 0.0 | 31,000 | 0.75 | 23,250 | 3,147 | 3,146 | 13.5 |

| Pole Buckling | | | | | | | | | | | | | |
|-------------------|------------------------------|--|--------------------------------|--------------------------------------|----------------------|---------------------|-----------------------------|--------------------|-------------------|----------------------|--|---------------------------------------|--------------------------------|
| Buckling Constant | Buckling Column Height* (ft) | Buckling Section Height (% Buckling Col. Hgt.) | Buckling Section Diameter (in) | Minimum Buckling Diameter at GL (in) | Diameter at Tip (in) | Diameter at GL (in) | Modulus of Elasticity (psi) | Pole Density (pcf) | Ice Density (pcf) | Pole Tip Height (ft) | Buckling Load Capacity at Height (lbs) | Buckling Load Applied at Height (lbs) | Buckling Load Factor of Safety |
| 0.71 | 26.93 | 34.03 | 10.79 | 12.82 | 7.32 | 11.88 | 1.60e+6 | 60.00 | 57.00 | 38.50 | 100,259 | 1006.36 | 19.23 |

DOUGLAS FIR POLE SIZING CHART

| Class | H-6 | H-5 | H-4 | H-3 | H-2 | H-1 | 1 | 2 | 3 | 4 | 5 | 6 |
|--|---|------|------|------|------|------|------|------|------|------|------|------|
| Minimum Circumference at Top (Inches) | 39 | 37 | 35 | 33 | 31 | 29 | 27 | 25 | 23 | 21 | 19 | 17 |
| Length of Pole (Feet) | Minimum Circumference at 6 feet from Butt (Inches) | | | | | | | | | | | |
| 20 | - | - | - | - | - | - | 31.0 | 29.0 | 27.0 | 25.0 | 23.0 | 21.0 |
| 25 | - | - | - | - | - | - | 33.5 | 31.5 | 29.5 | 27.5 | 25.5 | 23.0 |
| 30 | - | - | - | - | - | - | 36.5 | 34.0 | 32.0 | 29.5 | 27.5 | 25.0 |
| 35 | - | - | - | - | 43.5 | 41.5 | 39.0 | 36.5 | 34.0 | 31.5 | 29.0 | 27.0 |
| 40 | - | - | 51.0 | 48.5 | 46.0 | 43.5 | 41.0 | 38.5 | 36.0 | 33.5 | 31.0 | 28.5 |
| 45 | 58.5 | 56.0 | 53.5 | 51.0 | 48.5 | 45.5 | 43.0 | 40.5 | 37.5 | 35.0 | 32.5 | 30.0 |
| 50 | 61.0 | 58.5 | 55.5 | 53.0 | 50.5 | 47.5 | 45.0 | 42.0 | 39.0 | 36.5 | 34.0 | - |
| 55 | 63.5 | 60.5 | 58.0 | 55.0 | 52.0 | 49.5 | 46.5 | 43.5 | 40.5 | 38.0 | - | - |
| 60 | 65.5 | 62.5 | 59.5 | 57.0 | 54.0 | 51.0 | 48.0 | 45.0 | 42.0 | 39.0 | - | - |
| 65 | 67.5 | 64.5 | 61.5 | 58.5 | 55.5 | 52.5 | 49.5 | 46.5 | 43.5 | 40.5 | - | - |
| 70 | 69.0 | 66.5 | 63.5 | 60.5 | 57.0 | 54.0 | 51.0 | 48.0 | 45.0 | 41.5 | - | - |
| 75 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 55.5 | 52.5 | 49.0 | 46.0 | - | - | - |
| 80 | 72.5 | 69.5 | 66.5 | 63.5 | 60.0 | 57.0 | 54.0 | 50.5 | 47.0 | - | - | - |
| 85 | 74.5 | 71.5 | 68.0 | 65.0 | 61.5 | 58.5 | 55.0 | 51.5 | 48.0 | - | - | - |
| 90 | 76.0 | 73.0 | 69.5 | 66.5 | 63.0 | 59.5 | 56.0 | 53.0 | 49.0 | - | - | - |
| 95 | 77.5 | 74.5 | 71.0 | 67.5 | 64.5 | 61.0 | 57.0 | 54.0 | - | - | - | - |
| 100 | 79.0 | 76.0 | 72.5 | 69.0 | 65.5 | 62.0 | 58.5 | 55.0 | - | - | - | - |
| 105 | 80.5 | 77.0 | 74.0 | 70.5 | 67.0 | 63.0 | 59.5 | 56.0 | - | - | - | - |
| 110 | 82.0 | 78.5 | 75.0 | 71.5 | 68.0 | 64.5 | 60.5 | 57.0 | - | - | - | - |
| 115 | 83.5 | 80.0 | 76.5 | 72.5 | 69.0 | 65.5 | 61.5 | 58.0 | - | - | - | - |
| 120 | 85.0 | 81.0 | 77.5 | 74.0 | 70.0 | 66.5 | 62.5 | 59.0 | - | - | - | - |
| 125* | 86.0 | 82.5 | 78.5 | 75.0 | 71.0 | 67.5 | 63.5 | 59.5 | - | - | - | - |

* 125' Availability: Untreated Only



at&t

CRAN_RSFR_LOSAO_01

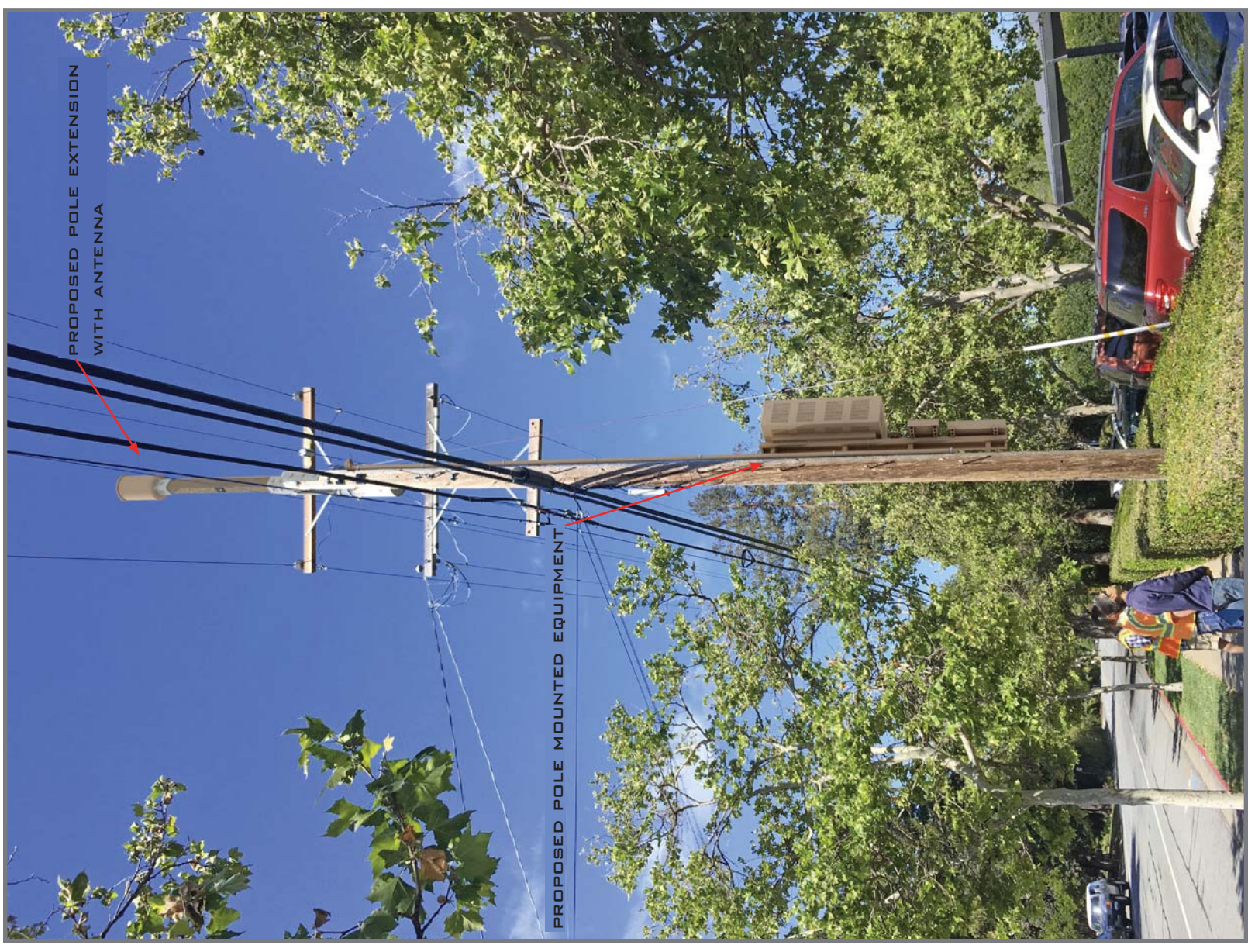
141 ALMOND AVENUE LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED LOOKING WEST ALONG ALMOND AVENUE

AT&T Future Build-out Sites



| Name | Address |
|----------|---------------------|
| LOSA0_01 | 141 Almond Ave |
| LOSA0_02 | 687 Linden Ave |
| LOSA0_03 | 421 Valencia |
| LOSA0_04 | 33 Pine |
| LOSA0_05 | 49 San Juan |
| LOSA0_06 | 791 Los Altos |
| LOSA0_07 | 98 Eleanor |
| LOSA0_08 | 182 Garland |
| LOSA0_09 | 491 Patrick Way |
| LOSA0_10 | 300 Los Altos Ave |
| LOSA0_11 | 130 Los Altos |
| LOSA0_12 | 356 Blue Oak |
| SJWE_007 | 5000 El Camino Real |
| SJWE_012 | 4294 El Camino Real |



at&t



ART MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

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BRET A. MCCOMB
REGISTERED PROFESSIONAL ENGINEER
C 68881
STATE OF CALIFORNIA

THIS FIRM AND PROFESSIONAL ENGINEERS OR ARCHITECTS ARE NOT BEING HELD RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF ANY PROJECTS UNLESS THEY ARE SPECIFICALLY IDENTIFIED AS SUCH IN THE PROJECT'S CONTRACT DOCUMENTS. THE PROFESSIONAL ENGINEER OR ARCHITECT IS NOT BEING HELD RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF ANY PROJECTS UNLESS THEY ARE SPECIFICALLY IDENTIFIED AS SUCH IN THE PROJECT'S CONTRACT DOCUMENTS.

SITE INFORMATION

APPLICANT: ART MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

AGENT: SURESITE
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

APN: ADJUCT TO 170-60-001

SITE ADDRESS: ROW ADJUCT TO 141 ALMOND AVE
LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 06.29" N (37.385081) NAD 83

LONGITUDE: 122° 06' 36.65" W (-122.110181) NAD 83

GROUND ELEVATION: ±147.2 AMSL

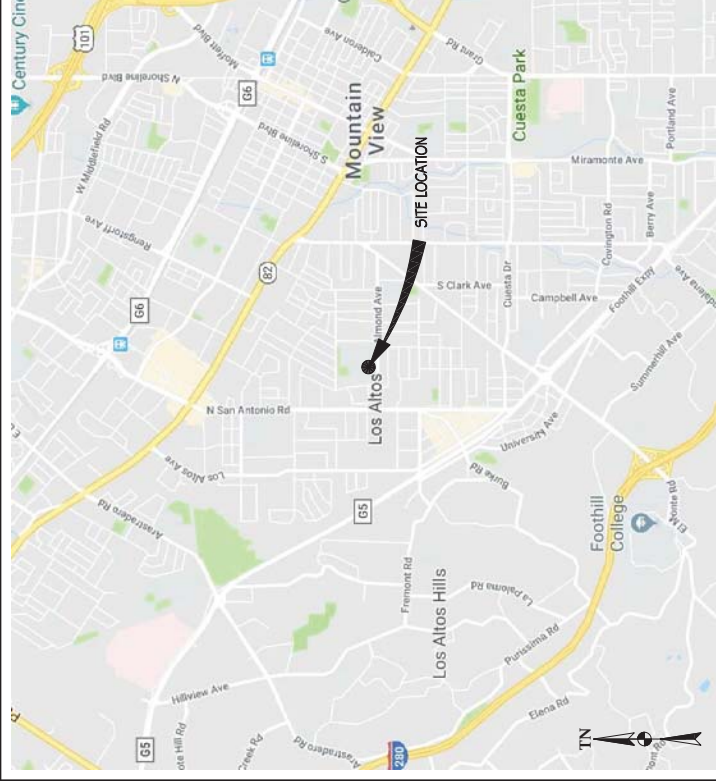
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100512824

STREET CLASSIFICATION: COLLECTOR

VICINITY MAP



CODE COMPLIANCE

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

- 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA FIRE CODE
- LOCAL BUILDING CODES
- CITY/COUNTY ORDINANCES
- ANSI/AIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM ART MOBILITY WIRELESS WALNUT CREEK OFFICE

- FROM:** 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
TO: 141 ALMOND AVE, LOS ALTOS, CA 94022
- HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR
 - TURN RIGHT ONTO SUNSET DR
 - TURN RIGHT ONTO BOLLINGER CANYON RD
 - MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE
 - CONTINUE ONTO I-680 S
 - TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-680
 - KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262 MISSION BLVD
 - MERGE ONTO CA-262 MISSION BLVD
 - TAKE THE EXIT ON THE LEFT TOWARD I-680 SAN JOSE
 - MERGE ONTO I-680 S
 - TAKE THE CA-237 W EXIT TOWARD MTN VIEW
 - CONTINUE ONTO CA-237 W
 - KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY Pkwy
 - TURN RIGHT ONTO EL CAMINO REAL
 - TURN LEFT ONTO EL MONTE AVE
 - TURN RIGHT ONTO N EL MONTE AVE
 - TURN RIGHT ONTO ALMOND AVE

END AT: 141 ALMOND AVE, LOS ALTOS, CA 94022
ESTIMATED TIME: 47 MINS ESTIMATED DISTANCE: 39.0 MI

SITE ID: CRAN_RSFR_LOSAO_01
SITE ADDRESS: ROW ADJUCT TO 141 ALMOND AVE
LOS ALTOS, CA 94022
PM#: 114474269
SITE TYPE: PG&E POLE #TBD
POLE OWNER: PG&E
FA LOCATION: 12898152
USID: TBD

PROJECT TEAM

AGENT: SURESITE
36 EXECUTIVE PARK, #210
IRVINE, CA 92614
(949) 278-2962
LMENERS@SURE-SITE.COM

PROJECT MANAGERS: CHRIS JOHNSON
6140 STONERIDGE MALL RD, SUITE 350
PLEASANTON, CA 94588
(408) 796-8443
CHRISTOPHER.JOHNSON@ERICSSON.COM

CONSTRUCTION MANAGER: TBD

ARCHITECT/ENGINEER OF RECORD: BRET MCCOMB
PRECISION DESIGN & DRAFTING, INC
11768 ATWOOD ROAD, SUITE #20
AUBURN, CA 95603
(530) 823-6546
BRET@PDND.COM

RF MANAGER: TBD

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR ART WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON A (N) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

- INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON (N) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON 6095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METERS, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RBUS-4415 & (1) RBUS-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) NMM PX-02WEL10H2-06T CYLINDRICAL ANTENNA.
- ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL.
- UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.

DRAWING INDEX

SHEET NO: SHEET TITLE

- T-1 TITLE SHEET
- T-2 GENERAL NOTES, LEGEND, & ABBREVIATIONS
- A-1 SITE PLAN
- A-2 EQUIPMENT PLAN & ANTENNA PLANS
- A-3 ELEVATIONS
- A-4 ELEVATIONS
- A-5 DETAILS
- A-6 DETAILS
- E-1 SINGLE-LINE DIAGRAM & DETAILS
- E-2 GROUNDING DIAGRAMS

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 1" X 17' PLOT, DRAWINGS WILL BE HALF SCALE.

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.



"CALL BEFORE YOU DIG"
811/800-227-2600
NATIONWIDE UNDERGROUND SERVICE ALERT

ISSUE STATUS

| DATE | DESCRIPTION |
|----------|-------------|
| 06/14/18 | CD 90% |
| 10/31/18 | CD 100% |

DRAWN BY: B. LONGBAUGH
CHECKED BY: T. DCARLO
APPROVED BY: B. MCCOMB
DATE: 10/31/18

SHEET TITLE:

TITLE SHEET

SHEET NUMBER

T-1

CRAN_RSFR_LOSAO_01
ROW ADJUCT TO 141 ALMOND AVE
LOS ALTOS, CA 94022

GENERAL CONSTRUCTION NOTES

1. PLANS ARE INTENDED TO BE PARAMETRIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL CONTACT UEA UNDERGROUND SERVICE ALERT AT (800) 227-5200, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CODES/REQUIREMENTS REGARDING SEISMIC RESISTANCE, FLOOD, BUT NOT LIMITED TO, PILING, RETAINERS, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARINGS OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE CIRCULAR BEARINGS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
8. DO NOT EXCAVATE OR DISTURB BEFORE THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS, THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DISCREPANCIES AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT THEIR OWN RISK AND DANGER.
11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
12. ANY DRAIN HATCHES FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON THE BUILT DRAWINGS BY GENERAL CONTRACTOR, AND SUBMITTED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LINED BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
14. INCLUDE MISC ITEMS PER ANY WIRELESS SPECIFICATIONS.
15. ALL EQUIPMENT LOGS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. MODE IDENTIFICATION OR SHUTDOWN) SIGNAGE OR POLE REGULATIONS SHALL BE PAINTED OVER OR REMOVED. REASSEMBLED LOGS OR TEXT ON EQUIPMENT (E.G. BRISKS, IF PRESENT), TO BE SANDWICHED OFF OR COVERED WITH STICKER, IF THEN PAINTED OVER.
16. FOUNDATION BY WAC WARNING SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW.
17. ALL EQUIPMENT, INCLUDING ANTENNAS, MOUNTING/HANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METERS, AND RADIOS SHALL BE PAINTED BROWN USING A DURABLE OUTDOOR PAINT.
18. CABLES SHALL BE BROWN BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS. A SHALL BE HIDDEN FROM VIEW TO THE MAXIMUM EXTENT POSSIBLE.
19. SUPPORT EQUIPMENT (E.G. METERS, DISCONNECT SWITCH, ETC) TO BE CLUSTERED VERTICALLY AS CLOSE AS TECHNICALLY FEASIBLE ON POLE.

SYMBOLS LEGEND

| | | | |
|--|------------------------|--|-----------------------------------|
| | NEW ANTENNA | | GROUT OR PLASTER |
| | EXISTING ANTENNA | | (B) BRICK |
| | GROUND ROD | | (M) MASONRY |
| | GROUND BUSS BAR | | CONCRETE |
| | MECHANICAL GRND. CONN. | | EARTH |
| | GROUND ACCESS WELL | | GRAVEL |
| | ELECTRIC BOX | | FLYWOOD |
| | TELEPHONE BOX | | SAND |
| | LIGHT POLE | | WOOD CONT. |
| | P.D. MONUMENT | | WOOD BLOCKING |
| | SPOT ELEVATION | | STEEL |
| | SET POINT | | CENTERLINE |
| | REVISION | | PROPERTY LEASE LINE |
| | GRID REFERENCE | | MATCH LINE |
| | DETAIL REFERENCE | | WORK POINT |
| | ELEVATION REFERENCE | | GROUND CONDUCTOR |
| | SECTION REFERENCE | | COAXIAL CABLE |
| | | | OVERHEAD SERVICE CONDUCTORS |
| | | | CHAIN LINK FENCING |
| | | | OVERHEAD TELEPHONE OVERHEAD POWER |
| | | | OVERHEAD TELEPHONE LINE |
| | | | OVERHEAD POWER LINE |
| | | | POWER RUN |

GENERAL NOTES FOR EXISTING CELL SITES

1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
 2. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
 3. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
 4. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD BECOME TO DANGEROUS. PERSONAL BY DOSE/MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
 5. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES. GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND T1 PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS HATCHES AND NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
 6. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COPPER CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.
- ### APPLICABLE CODES, REGULATIONS, AND STANDARDS
1. CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AAU) FOR THE LOCATION.
 2. THE EDITION OF THE AAU ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
 3. CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 14TH EDITION
 - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 222-1, STRUCTURAL STANDARDS FOR STRUCTURAL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES (1989)
 - RECOMMENDED PRACTICE FOR TOWERING AND GROUNDING OF ELECTRICAL EQUIPMENT (IEEE C62.41)
 - RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS FOR LOCATION OUTDOOR 'C' AND 'H' HIGH SYSTEM (PROCEDURE)
 4. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELECORDIA GR-63 NETWORK EQUIPMENT BUILDING SYSTEM (NEBS); PHYSICAL PROTECTION TELECORDIA GR-347 CENTRAL OFFICE POWER WIRING TELECORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS TELECORDIA GR-1508 COAXIAL CABLE CONNECTIONS
 5. ANY AND ALL OTHER LOCAL A STATE LAWS AND REGULATIONS
 6. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

1. MAINTAIN 4" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
2. MAINTAIN 3" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
3. MINIMUM 1" SAND SHOULDER BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
4. ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
5. IN SLOTTED SLURRY TO GRADE AND FILL DOWN 1-1/2" FOR A.C. CAP.
6. IN DIRT SLURRY 1/2" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BALANCE
7. WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND 18" WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

1. 50' X 10' ROD, CAD WELD BELOW GRADE
2. GROUND TESTED AT 5 OHMS OR LESS.
3. #6 GROUND AND BOND WIRE.
4. GROUNDS 3' FROM POLE.
5. PLACE 3 #10 GAL WARES FROM TESCO BRACKETS TO RING OR STRONG BOX.
6. WOOD HOLDING, STAYED EVERY 3' AND AT EACH END.

GENERAL CONDUIT NOTES

1. ALL CONDUITS WILL BE HANDED AND EQUIPPED WITH 3/8" FULL DEPTH.
2. SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
3. SCHEDULE 80 CONDUIT FOR RISK USE.
4. 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3', STUB UP 10" THEN CONVERT TO SCHEDULE 80.
5. CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
6. CONTRACTOR TO STUB UP POLE 10" # 2 POWER CONDUIT, POWER COMPANY TO CONVERT FROM 3" STUB SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

1. CABLE NOT TO INTERFERE 15" CLEAR SPACE OFF POLE FACE.
2. ALL CLAMP STEPS MUST TO CONDUIT SHALL HAVE EXTENDED STEPS.
3. NO BOLT THREADS TO PROTRUDE MORE THAN 1/16"
4. ALL POLES IN POLE LEFT FROM REARRANGEMENT OF COLUMNS TO BE FILLED.
5. 90° SHORT SWAGS UNDER ANTENNA ARM. ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM AND CABLE ON TOP OF ARM.
6. USE 90° CONNECTOR AT CABLE CONNECTION FOR DOWN DOWN ANTENNAS.
7. USE CABLE CLAMPS TO SECURE CABLE TO ARMS. PLACE 2" FLEXIBLE CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
8. USE 1/2" DIA. CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
9. PLACE 6" ON ARM OF SOUTHERN SKY PROGRESS AT MINIMUM 6" FROM TRANSIT ANTENNA WHICH IS 24" AWAY FROM CENTER OF POLE.
10. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SPURANT TO PREVENT WATER INTRUSION.

ABBREVIATIONS

| | | | |
|------|------------------------------|------|--|
| A | AMPERE | HT | HEIGHT |
| AB | ABOVE | INT | INTERIOR |
| AC | ALTERNATING CURRENT | INTD | INTERIOR |
| ACB | ANTENNA CABLE COVER ASSEMBLY | IS | INSULATION |
| ACFL | AC FEED LINE | LA | LAG BOLTS |
| AD | ADJUSTABLE | LA* | LAG BOLTS (FLOOR) |
| ADP | ADJUSTABLE PITCH FLOOR | LC | LONGITUDINAL |
| AE | ABOVE FINISHED FLOOR | LD | LONGITUDINAL |
| AF | ALUMINUM | LE | LOW PRESSURE SODIUM |
| AG | ALUMINUM | LF | LOW PRESSURE SODIUM |
| AH | ALUMINUM | LI | LOW PRESSURE SODIUM |
| AI | ALUMINUM | LJ | LOW PRESSURE SODIUM |
| AK | ALUMINUM | LK | LOW PRESSURE SODIUM |
| AL | ALUMINUM | LM | LOW PRESSURE SODIUM |
| AM | ALUMINUM | LN | LOW PRESSURE SODIUM |
| AN | ALUMINUM | LO | LOW PRESSURE SODIUM |
| AO | ALUMINUM | LP | LOW PRESSURE SODIUM |
| AP | ALUMINUM | LQ | LOW PRESSURE SODIUM |
| AQ | ALUMINUM | LR | LOW PRESSURE SODIUM |
| AR | ALUMINUM | LS | LOW PRESSURE SODIUM |
| AS | ALUMINUM | LT | LOW PRESSURE SODIUM |
| AT | ALUMINUM | LU | LOW PRESSURE SODIUM |
| AV | ALUMINUM | LV | LOW PRESSURE SODIUM |
| AW | ALUMINUM | LW | LOW PRESSURE SODIUM |
| AX | ALUMINUM | LX | LOW PRESSURE SODIUM |
| AY | ALUMINUM | LY | LOW PRESSURE SODIUM |
| AZ | ALUMINUM | LZ | LOW PRESSURE SODIUM |
| BA | ALUMINUM | MA | MACHINE DOLT |
| BB | ALUMINUM | MB | MACHINE DOLT |
| BC | ALUMINUM | MC | MACHINE DOLT |
| BD | ALUMINUM | MD | MACHINE DOLT |
| BE | ALUMINUM | ME | MACHINE DOLT |
| BF | ALUMINUM | MF | MACHINE DOLT |
| BG | ALUMINUM | MG | MACHINE DOLT |
| BH | ALUMINUM | MH | MACHINE DOLT |
| BI | ALUMINUM | MI | MACHINE DOLT |
| BJ | ALUMINUM | MJ | MACHINE DOLT |
| BK | ALUMINUM | MK | MACHINE DOLT |
| BL | ALUMINUM | ML | MACHINE DOLT |
| BM | ALUMINUM | MM | MACHINE DOLT |
| BN | ALUMINUM | MN | MACHINE DOLT |
| BO | ALUMINUM | MO | MACHINE DOLT |
| BP | ALUMINUM | MP | MACHINE DOLT |
| BQ | ALUMINUM | MQ | MACHINE DOLT |
| BR | ALUMINUM | MR | MACHINE DOLT |
| BS | ALUMINUM | MS | MACHINE DOLT |
| BT | ALUMINUM | MT | MACHINE DOLT |
| BU | ALUMINUM | MU | MACHINE DOLT |
| BV | ALUMINUM | MV | MACHINE DOLT |
| BW | ALUMINUM | MW | MACHINE DOLT |
| BX | ALUMINUM | MX | MACHINE DOLT |
| BY | ALUMINUM | MY | MACHINE DOLT |
| BZ | ALUMINUM | MZ | MACHINE DOLT |
| CA | CABLE | NA | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CB | CABLE | NB | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CC | CABLE | NC | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CD | CABLE | ND | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CE | CABLE | NE | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CF | CABLE | NF | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CG | CABLE | NG | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CH | CABLE | NH | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CI | CABLE | NI | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CJ | CABLE | NJ | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CK | CABLE | NK | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CL | CABLE | NL | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CM | CABLE | NM | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CN | CABLE | NO | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CO | CABLE | NP | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CP | CABLE | NQ | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CQ | CABLE | NR | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CR | CABLE | NS | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CS | CABLE | NT | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CT | CABLE | NU | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CU | CABLE | NV | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CV | CABLE | NW | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CW | CABLE | NX | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CX | CABLE | NY | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CY | CABLE | NZ | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| CA | CABLE | OA | OFFICE |
| CB | CABLE | OB | OFFICE |
| CC | CABLE | OC | OFFICE |
| CD | CABLE | OD | OFFICE |
| CE | CABLE | OE | OFFICE |
| CF | CABLE | OF | OFFICE |
| CG | CABLE | OG | OFFICE |
| CH | CABLE | OH | OFFICE |
| CI | CABLE | OI | OFFICE |
| CJ | CABLE | OJ | OFFICE |
| CK | CABLE | OK | OFFICE |
| CL | CABLE | OL | OFFICE |
| CM | CABLE | OM | OFFICE |
| CN | CABLE | ON | OFFICE |
| CO | CABLE | OO | OFFICE |
| CP | CABLE | OP | OFFICE |
| CQ | CABLE | OQ | OFFICE |
| CR | CABLE | OR | OFFICE |
| CS | CABLE | OS | OFFICE |
| CT | CABLE | OT | OFFICE |
| CU | CABLE | OU | OFFICE |
| CV | CABLE | OV | OFFICE |
| CW | CABLE | OW | OFFICE |
| CX | CABLE | OX | OFFICE |
| CY | CABLE | OY | OFFICE |
| CZ | CABLE | OZ | OFFICE |
| DA | DANGER | PA | PAINT |
| DB | DANGER | PB | PAINT |
| DC | DANGER | PC | PAINT |
| DD | DANGER | PD | PAINT |
| DE | DANGER | PE | PAINT |
| DF | DANGER | PF | PAINT |
| DG | DANGER | PG | PAINT |
| DH | DANGER | PH | PAINT |
| DI | DANGER | PI | PAINT |
| DJ | DANGER | PJ | PAINT |
| DK | DANGER | PK | PAINT |
| DL | DANGER | PL | PAINT |
| DM | DANGER | PM | PAINT |
| DN | DANGER | PN | PAINT |
| DO | DANGER | PO | PAINT |
| DP | DANGER | PP | PAINT |
| DQ | DANGER | PQ | PAINT |
| DR | DANGER | PR | PAINT |
| DS | DANGER | PS | PAINT |
| DT | DANGER | PT | PAINT |
| DU | DANGER | PV | PAINT |
| DV | DANGER | PW | PAINT |
| DW | DANGER | PX | PAINT |
| DX | DANGER | PY | PAINT |
| DY | DANGER | PZ | PAINT |
| EA | ELECTRIC | QA | QUALITY ASSURANCE |
| EB | ELECTRIC | QB | QUALITY ASSURANCE |
| EC | ELECTRIC | QC | QUALITY ASSURANCE |
| ED | ELECTRIC | QD | QUALITY ASSURANCE |
| EE | ELECTRIC | QE | QUALITY ASSURANCE |
| EF | ELECTRIC | QF | QUALITY ASSURANCE |
| EG | ELECTRIC | QG | QUALITY ASSURANCE |
| EH | ELECTRIC | QH | QUALITY ASSURANCE |
| EI | ELECTRIC | QI | QUALITY ASSURANCE |
| EJ | ELECTRIC | QJ | QUALITY ASSURANCE |
| EK | ELECTRIC | QK | QUALITY ASSURANCE |
| EL | ELECTRIC | QL | QUALITY ASSURANCE |
| EM | ELECTRIC | QM | QUALITY ASSURANCE |
| EN | ELECTRIC | QN | QUALITY ASSURANCE |
| EO | ELECTRIC | QO | QUALITY ASSURANCE |
| EP | ELECTRIC | QP | QUALITY ASSURANCE |
| EQ | ELECTRIC | QQ | QUALITY ASSURANCE |
| ER | ELECTRIC | QR | QUALITY ASSURANCE |
| ES | ELECTRIC | QS | QUALITY ASSURANCE |
| ET | ELECTRIC | QT | QUALITY ASSURANCE |
| EU | ELECTRIC | QU | QUALITY ASSURANCE |
| EV | ELECTRIC | QV | QUALITY ASSURANCE |
| EW | ELECTRIC | QW | QUALITY ASSURANCE |
| EX | ELECTRIC | QX | QUALITY ASSURANCE |
| EY | ELECTRIC | QY | QUALITY ASSURANCE |
| EZ | ELECTRIC | QZ | QUALITY ASSURANCE |
| FA | FLOOR | RA | REVISION |
| FB | FLOOR | RB | REVISION |
| FC | FLOOR | RC | REVISION |
| FD | FLOOR | RD | REVISION |
| FE | FLOOR | RE | REVISION |
| FF | FLOOR | RF | REVISION |
| FG | FLOOR | RG | REVISION |
| FH | FLOOR | RH | REVISION |
| FI | FLOOR | RI | REVISION |
| FJ | FLOOR | RJ | REVISION |
| FK | FLOOR | RK | REVISION |
| FL | FLOOR | RL | REVISION |
| FM | FLOOR | RM | REVISION |
| FN | FLOOR | RN | REVISION |
| FO | FLOOR | RO | REVISION |
| FP | FLOOR | RP | REVISION |
| FQ | FLOOR | RQ | REVISION |
| FR | FLOOR | RR | REVISION |
| FS | FLOOR | RS | REVISION |
| FT | FLOOR | RT | REVISION |
| FU | FLOOR | RU | REVISION |
| FV | FLOOR | RV | REVISION |
| FW | FLOOR | RW | REVISION |
| FX | FLOOR | RX | REVISION |
| FY | FLOOR | RY | REVISION |
| FZ | FLOOR | RZ | REVISION |
| GA | GROUND | SA | SECTION |
| GB | GROUND | SB | SECTION |
| GC | GROUND | SC | SECTION |
| GD | GROUND | SD | SECTION</ |



ART MOBILITY
5001 DECUITTE PARKWAY
SAN RAMON, CA 94583



36 DECUITTE PARK, SUITE 210
IRVINE, CA 92614

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Phone: (530) 823-6546 www.prdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

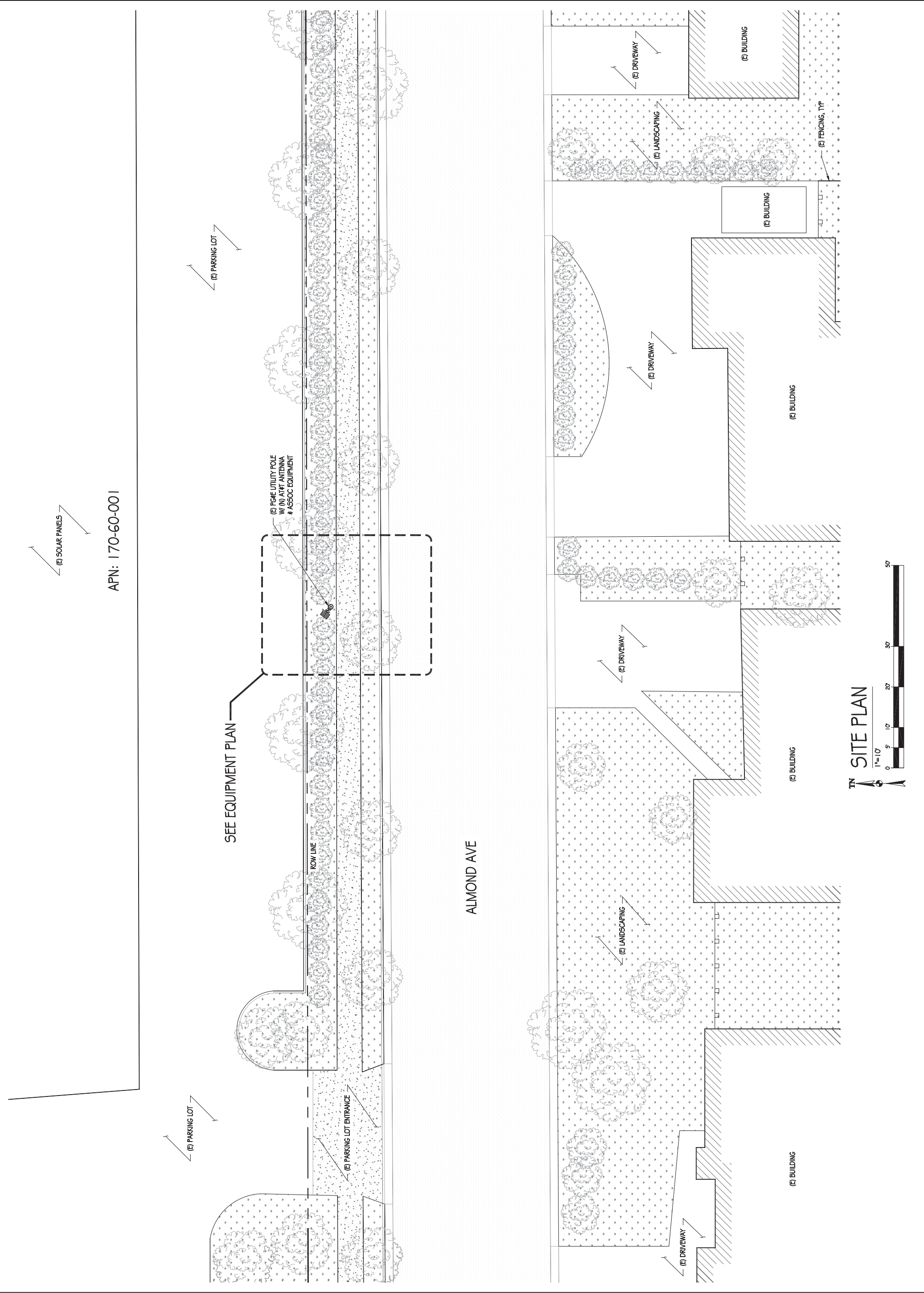


CRAN_RSFR_LOS40_01
ROW ADJUCT TO 141 ALMOND AVE
LOS AUTOS, CA 94022

| ISSUE STATUS | |
|--------------|-------------|
| DATE | DESCRIPTION |
| 06/14/16 | CD 90% |
| 10/31/16 | CD 100% |

| | |
|--------------|--------------|
| DRAWN BY: | B. LONGBAUGH |
| CHECKED BY: | T. DICARLO |
| APPROVED BY: | B. MCCOMB |
| DATE: | 10/31/16 |
| SHEET TITLE: | |

SITE PLAN
SHEET NUMBER
A-1



SITE PLAN
1"=10'
0 5 10 20 30 40 50

APN: 170-60-001



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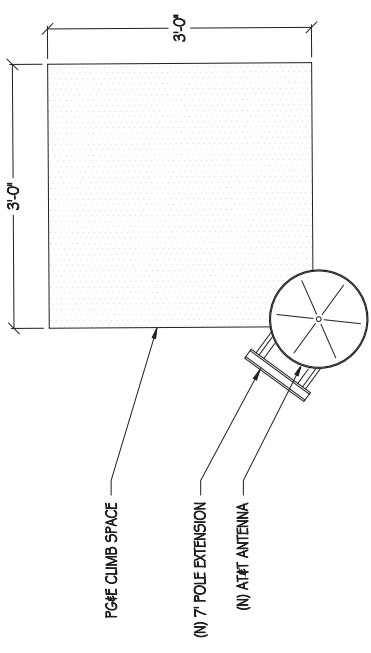
CRAN_RSFR_LOSAO_01
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LOS AUTOS, CA 94022

| ISSUE STATUS | |
|--------------|-------------|
| DATE | DESCRIPTION |
| 06/14/16 | CD 90% |
| 10/31/16 | CD 100% |
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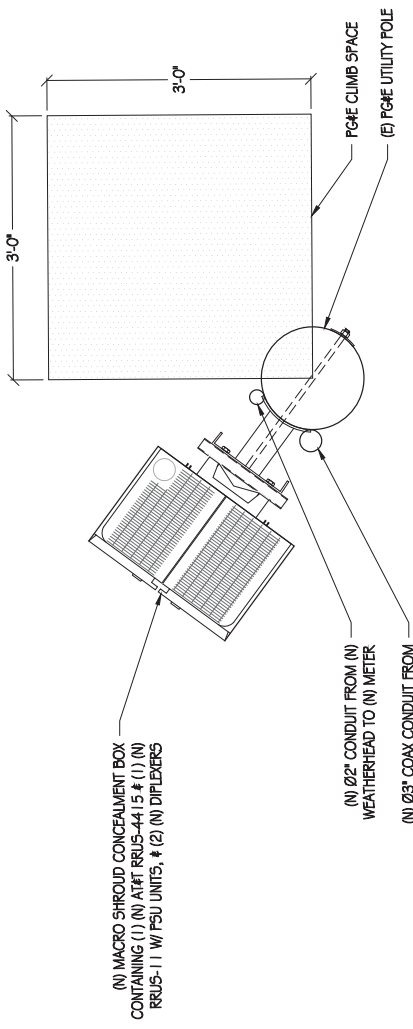
DRAWN BY: B. LONGBAUGH
CHECKED BY: T. DCARLO
APPROVED BY: B. MCCOMB
DATE: 10/31/16

SHEET TITLE:
EQUIPMENT PLAN #
ANTENNA PLANS
SHEET NUMBER

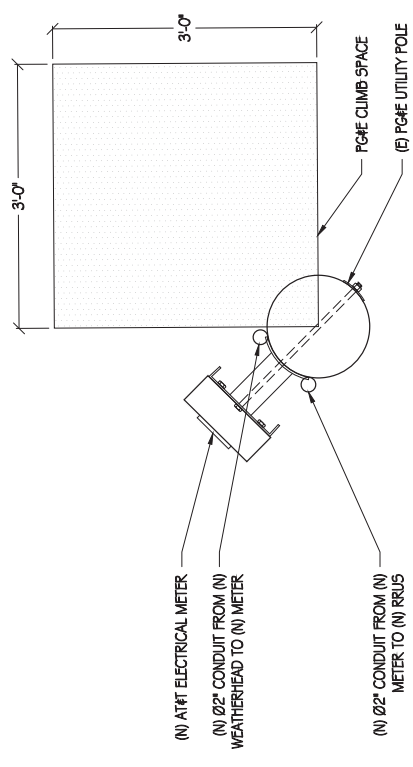
A-2



ANTENNA PLAN
1"=1'



RRU PLAN
1"=1'



ELECTRICAL METER PLAN
1"=1'

APN: 170-60-001



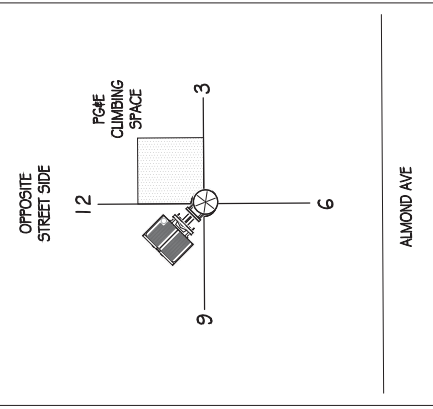
SEE ANTENNA PLANS

(E) PG&E UTILITY POLE
W/ (N) AT&T ANTENNA
& ASSOC EQUIPMENT

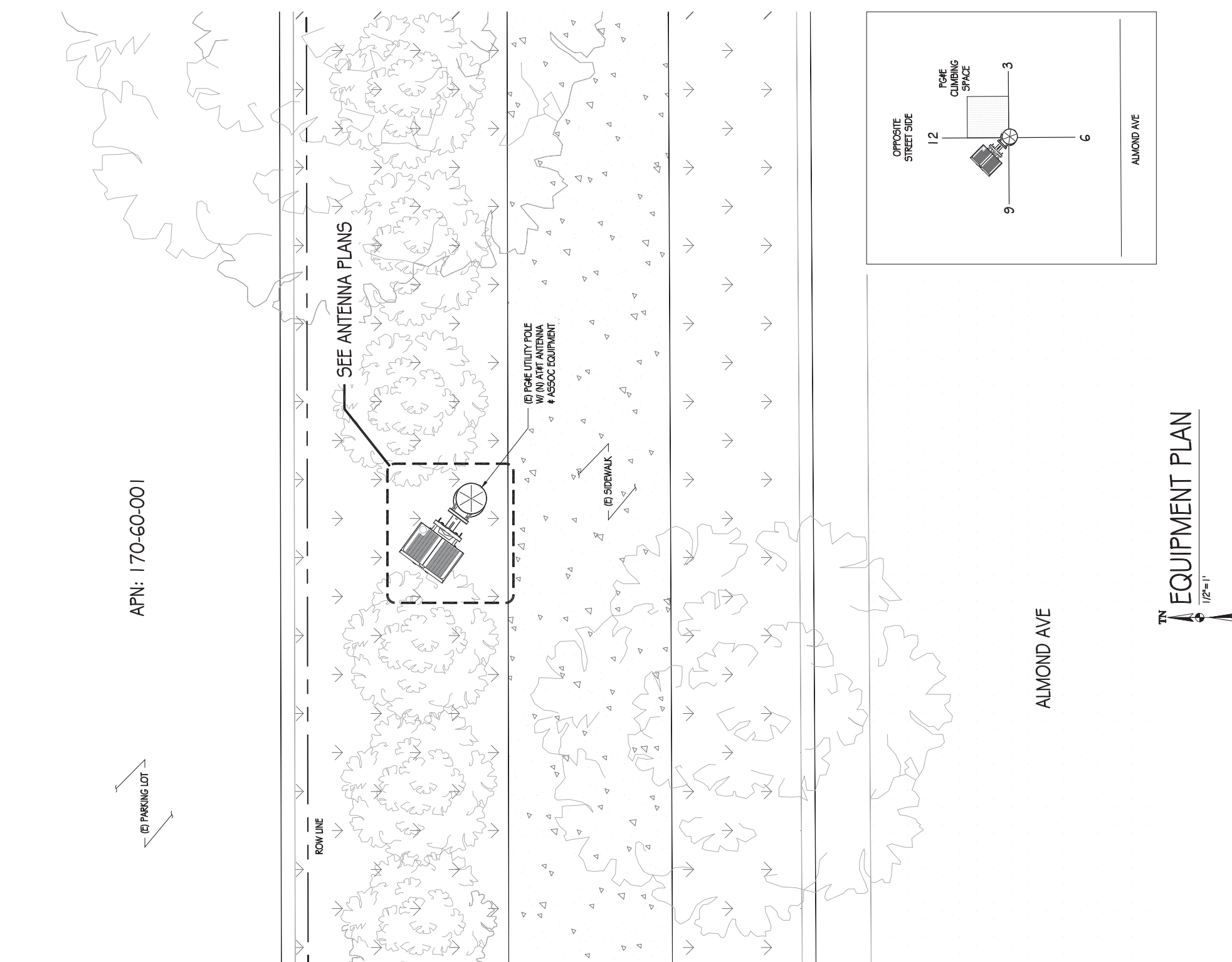
(E) SIDEWALK

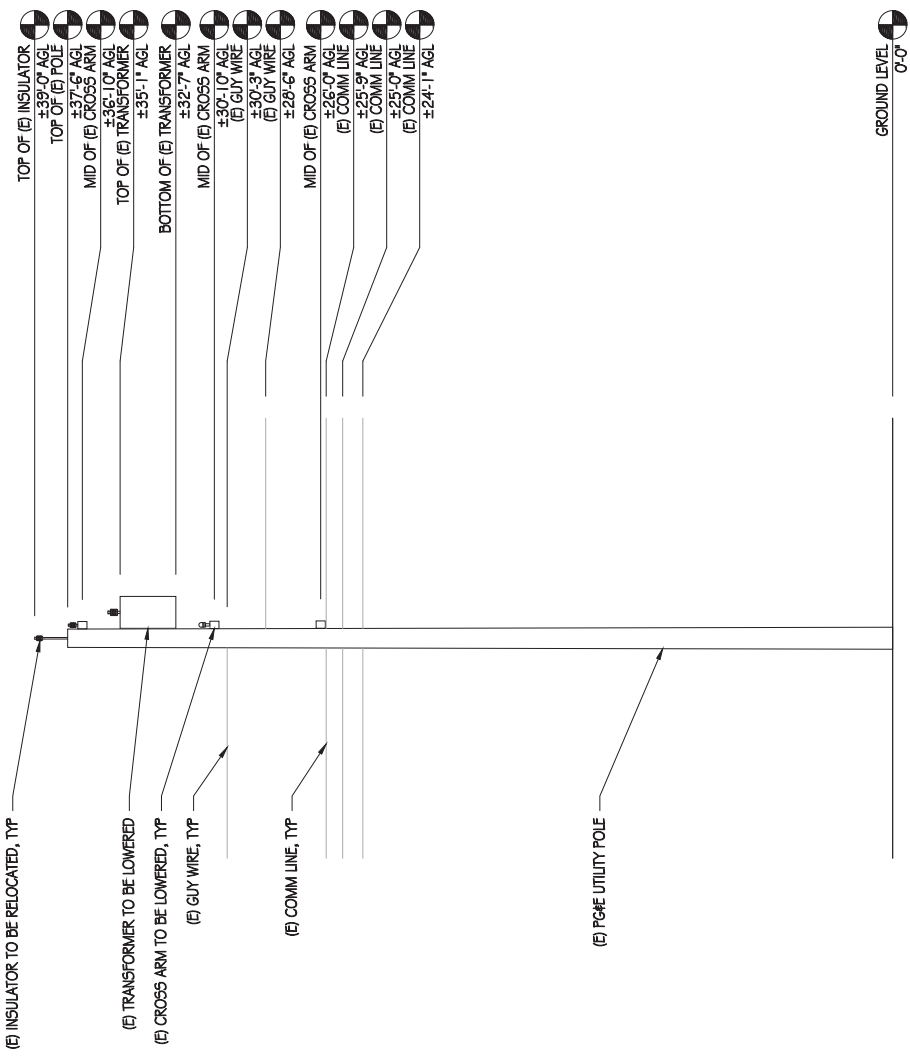
ROW LINE

ALMOND AVE



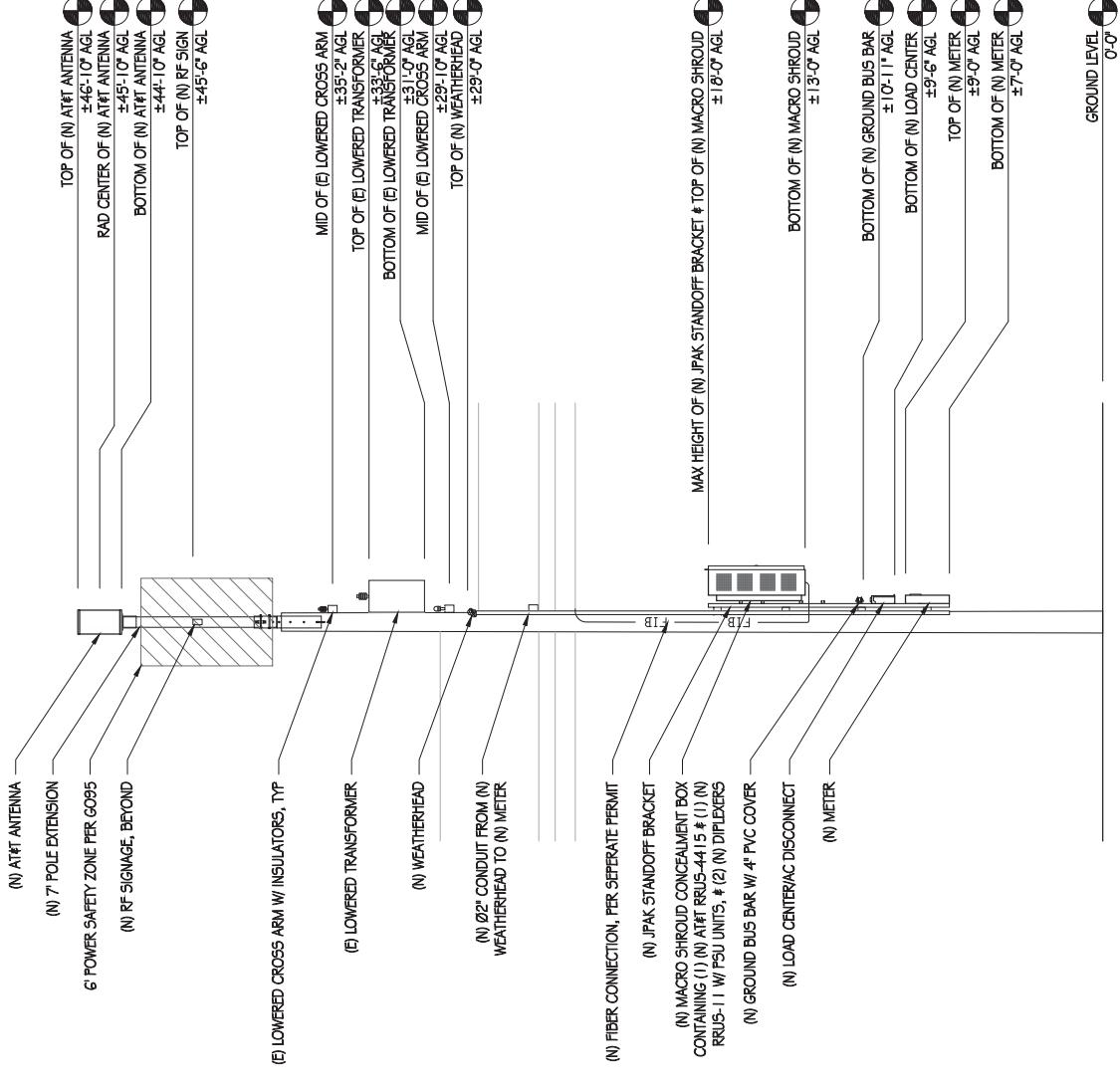
EQUIPMENT PLAN
1/2"=1'





EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

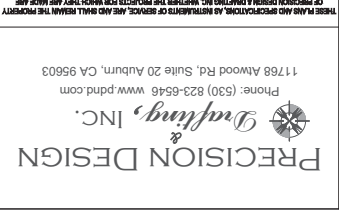
1/4" = 1'-0"



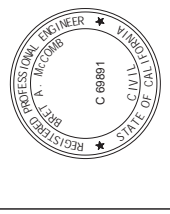
AT&T MOBILITY
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SAN RAMON, CA 94583



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LOS AUTOS, CA 94022

ISSUE STATUS

| Δ | DATE | DESCRIPTION |
|---|----------|-------------|
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| | 10/8/16 | CD 100% |

DRAWN BY: B. LONGBAUGH
CHECKED BY: T. DCARLO
APPROVED BY: B. MCCOMB
DATE: 10/8/16

SHEET TITLE:
ELEVATIONS
SHEET NUMBER

A-3



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ROW ADJUCT TO 141 ALMOND AVE
LOS AUTOS, CA 94022

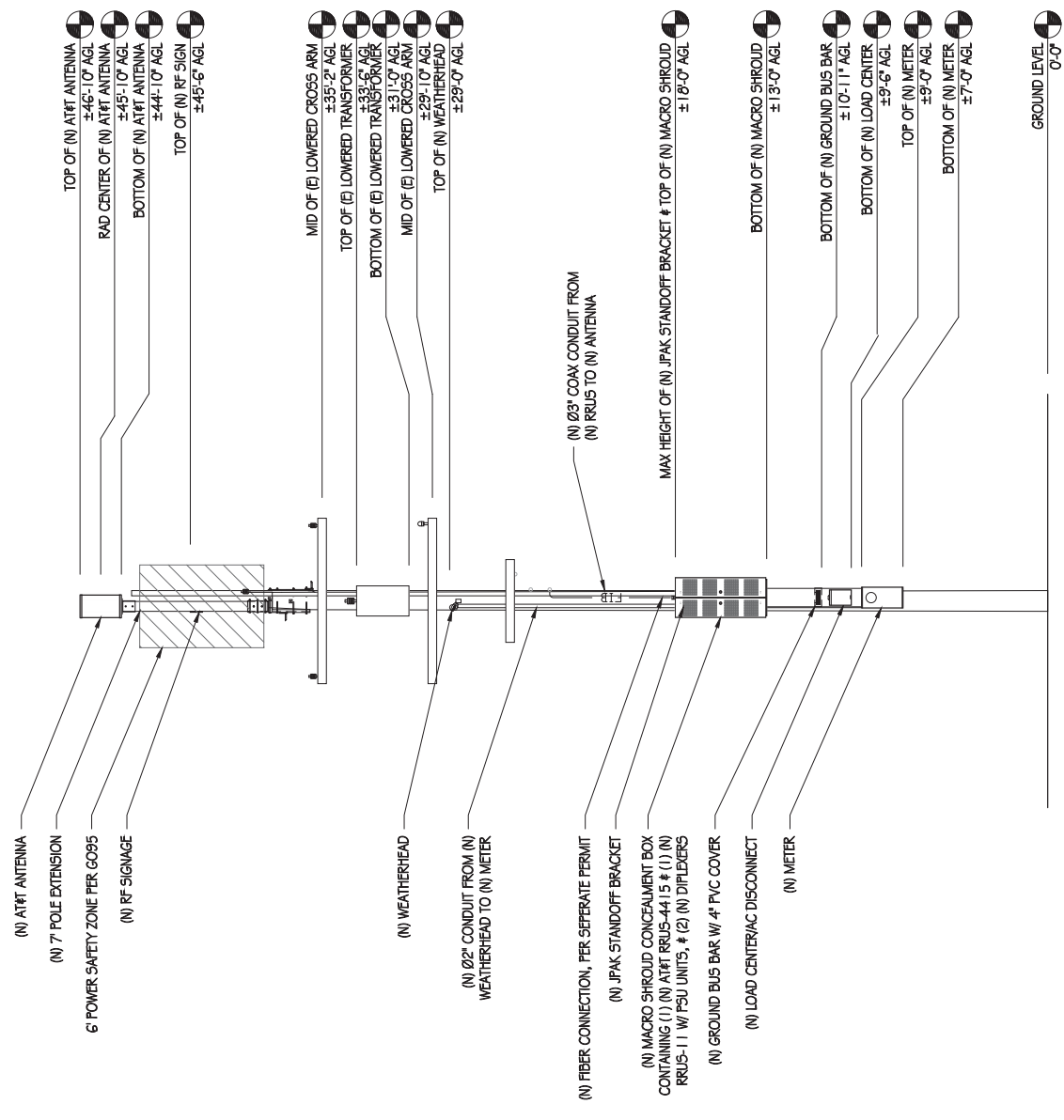
ISSUE STATUS

| DATE | DESCRIPTION |
|----------|-------------|
| 06/14/16 | CD 90% |
| 10/31/16 | CD 100% |
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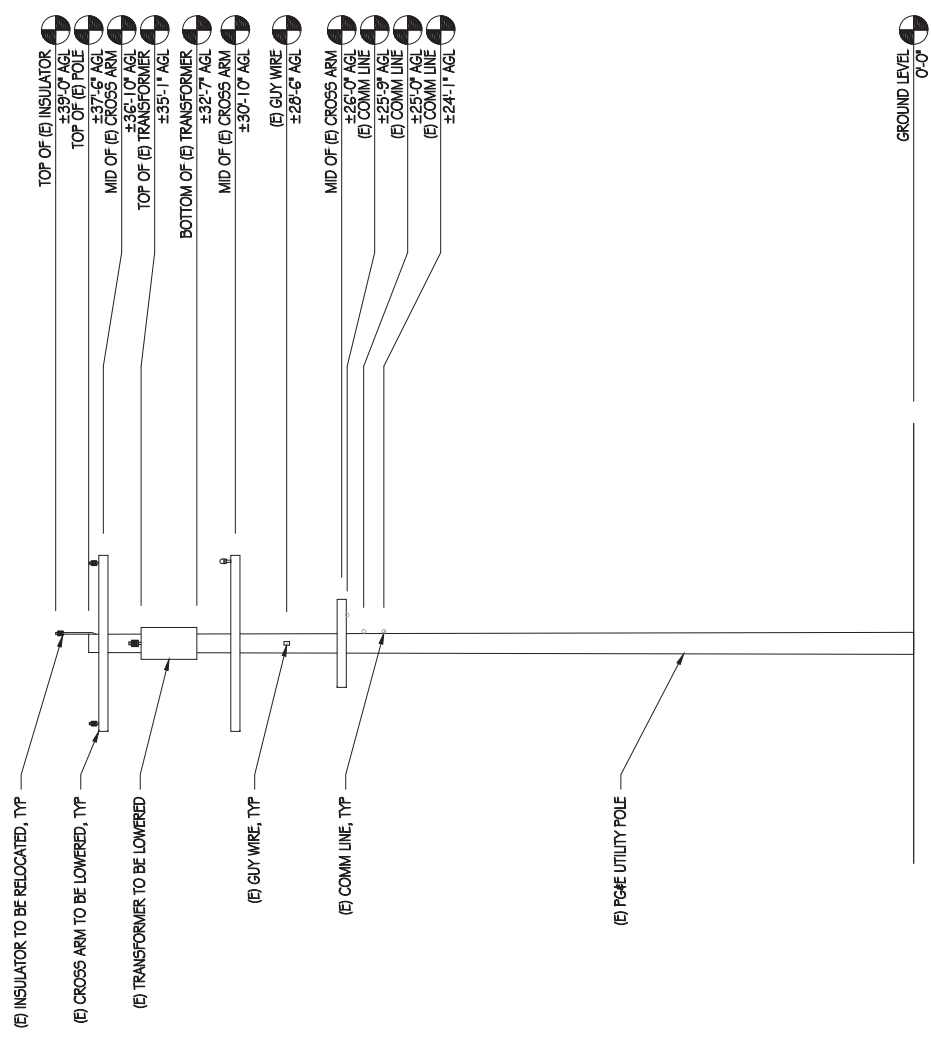
DRAWN BY: B. LONGBAUGH
CHECKED BY: T. DCARLO
APPROVED BY: B. MCCOMB
DATE: 10/31/16
SHEET TITLE:

ELEVATIONS
SHEET NUMBER

A-4



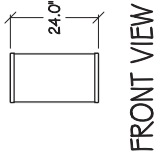
NEW WEST ELEVATION
1/4" = 1'-0"



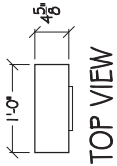
EXISTING WEST ELEVATION
1/4" = 1'-0"

KMW FX-OM2L1OH2-06T

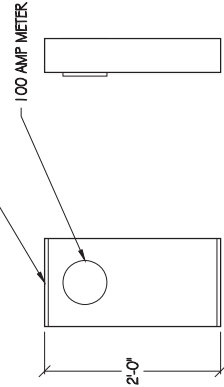
WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4-3-10 FEMALE



1 1/2"=1"
ANTENNA

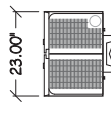


COOPER B-JUNE 1147B ELECTRICAL PANEL TO MEET COMMERCIAL PFC#E REQUIREMENTS WITH TEST BYPASS

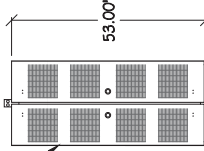
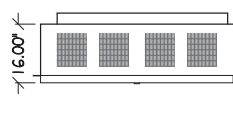


100 AMP METER

5 1"=1"
METER DETAIL



ERICSSON MICRO SHROUD (NPN 901 08)



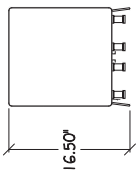
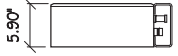
SIDE VIEW

FRONT VIEW

9 1/2"=1"
MICRO SHROUD CONCEALMENT

ERICSSON RRUS-4415

TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



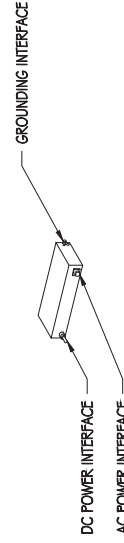
SIDE VIEW

FRONT VIEW

2 1"=1"
RRUS-4415 DETAIL

ERICSSON PSU AC 08

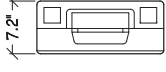
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



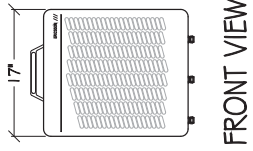
6 NTS
AC POWER MODULE

ERICSSON RRUS-111

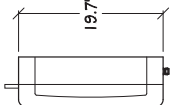
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

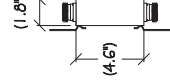


SIDE VIEW

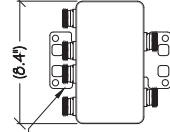
3 1"=1"
RRUS-111 DETAIL

COMMSCOPE CBC1923T-4310 E11F13P06

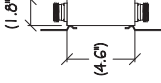
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

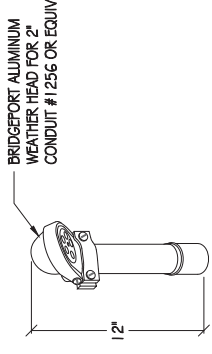


FRONT VIEW



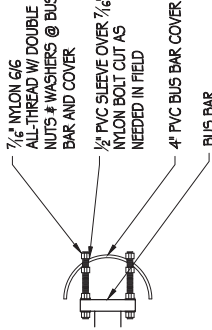
SIDE VIEW

4 1"=6"
DIPLEXER DETAIL

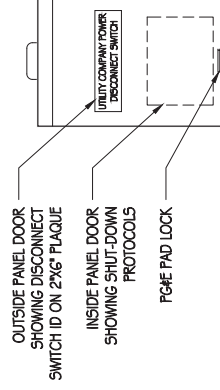


8 NTS
WEATHER HEAD

7 6"=1"
BUS BAR COVER



11 3"=1"
DISCONNECT SIGNAGE



SOLUTIONAL DISCONNECT

NORMAL SHUT-DOWN PROCEDURES

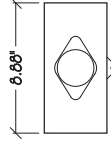
- CALL MCC FOR SHUT-DOWN WORK TO BE DONE TO SCHEDULE A SHUT-DOWN DAY AND TIME.
- ADVISE THE WORK MAJOR.
- ON SCHEDULE DAY OF SHUT-DOWN, CALL THE DISCONNECT WAREHOUSE TO THE OFFICE.
- CALL MCC WHEN WORK IS COMPLETED.

EMERGENCY SHUT-DOWN PROCEDURES

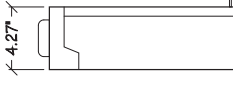
- CALL MCC WHEN MAJOR WORK.
- CALL MCC WHEN THE WORK IS COMPLETED.

SHUT-DOWN PROCEDURES BY NAME

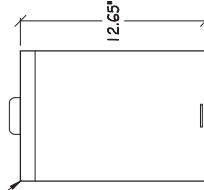
10 1"=6"
LOAD CENTER/AC DISCONNECT



TOP VIEW



SIDE VIEW



FRONT VIEW

SCHNEIDER ELECTRIC
 Q0612LI008B

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT



ART MOBILITY
 5001 DECATUR PARKWAY
 SAN RAMON, CA 94583



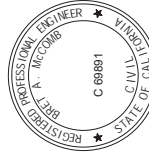
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DRAWN BY: B. LONGBAUGH
 CHECKED BY: T. DCARLO
 APPROVED BY: B. MCCOMB
 DATE: 10/31/16

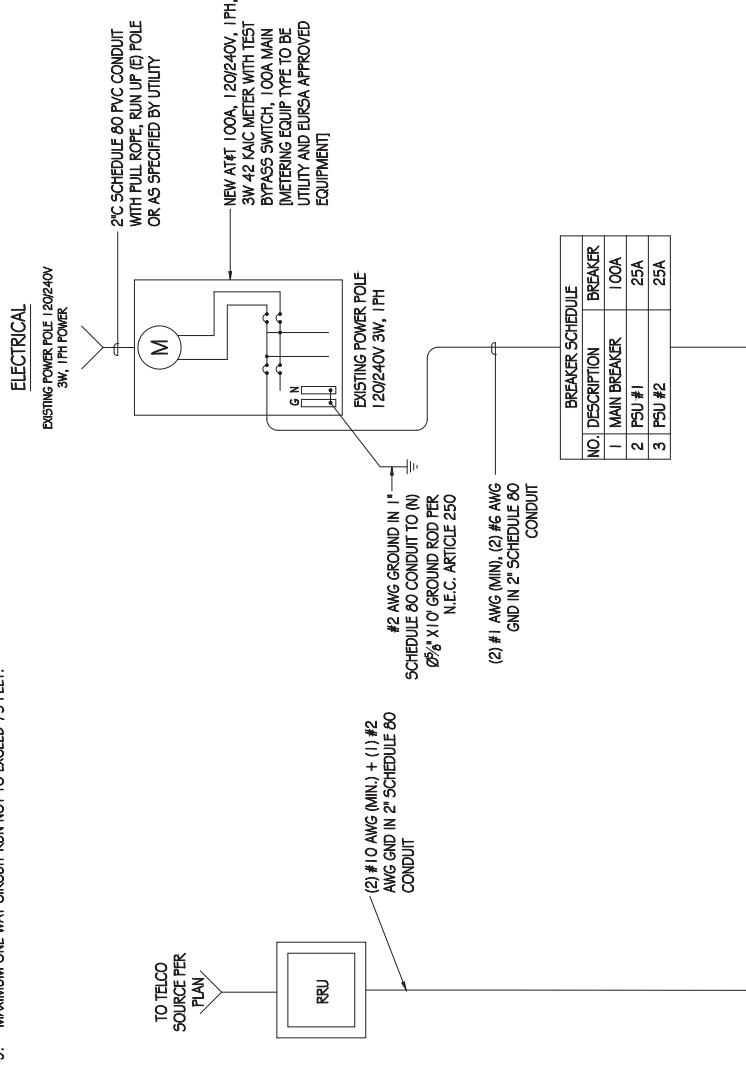
SHEET TITLE:
 DETAILS
 SHEET NUMBER
A-5

GENERAL ELECTRICAL NOTES:

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

POWER AND TELCO NOTES:

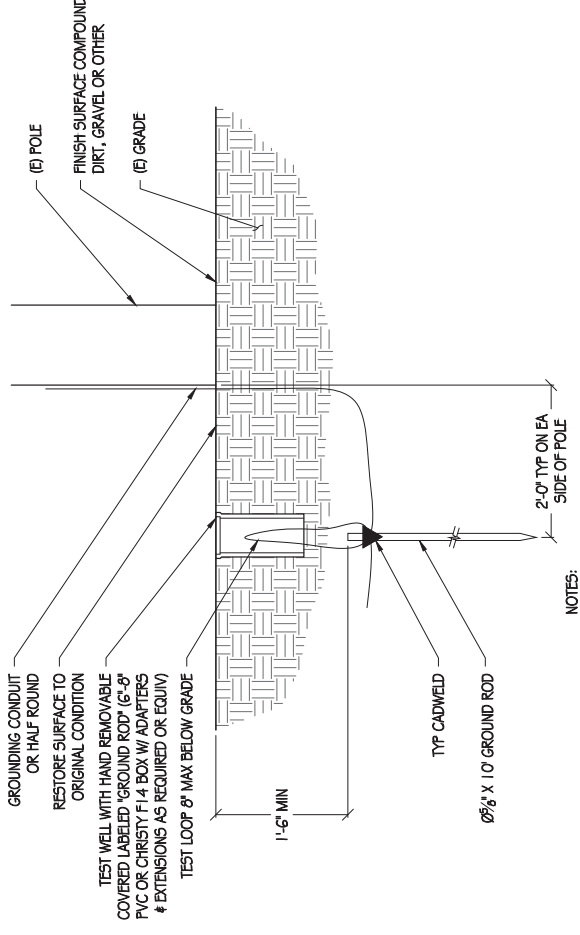
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORKMATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCLOSUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



SINGLE-LINE DIAGRAM

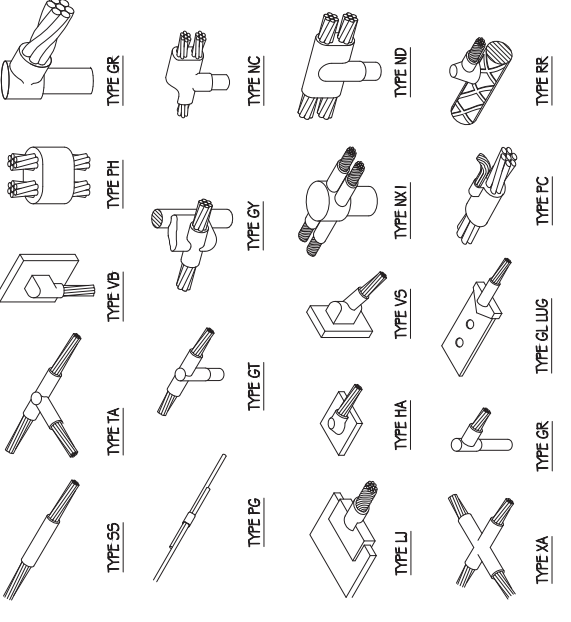
LOAD SCHEDULE

| MAKE/MODEL | QUANTITY | DESCRIPTION | DIMENSIONS | WEIGHT | TYPE | MAX TRANSMIT POWER | W | KW |
|-------------------|----------|-------------|----------------------|--------------|-------|--------------------|---------|----------|
| ERICSSON RRU5-32 | 2 | RRU | 27.0" X 12.0" X 7.0" | 50.7 LBS | 21/2R | < 10W PER RRU | 3666.63 | 0.366663 |
| NEMA 3R ENCLOSURE | 1 | DISCONNECT | 12.7" X 6.9" X 4.3" | 40 LBS (MAX) | N/A | N/A | N/A | N/A |



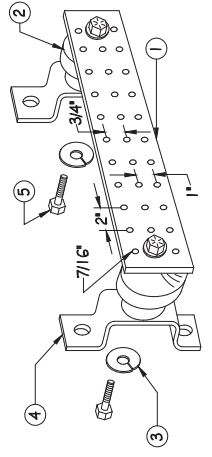
POLE GROUNDING DETAIL

1 NTS



EXOTHERMIC WELD DETAILS

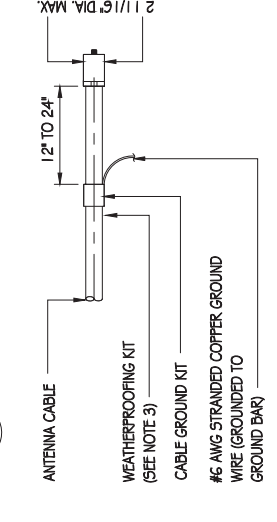
4 NTS



- NOTES:**
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. 306 1-4 OR APPROVED EQUAL
 3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 301 5-8 OR APPROVED EQUAL
 4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6056 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 TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

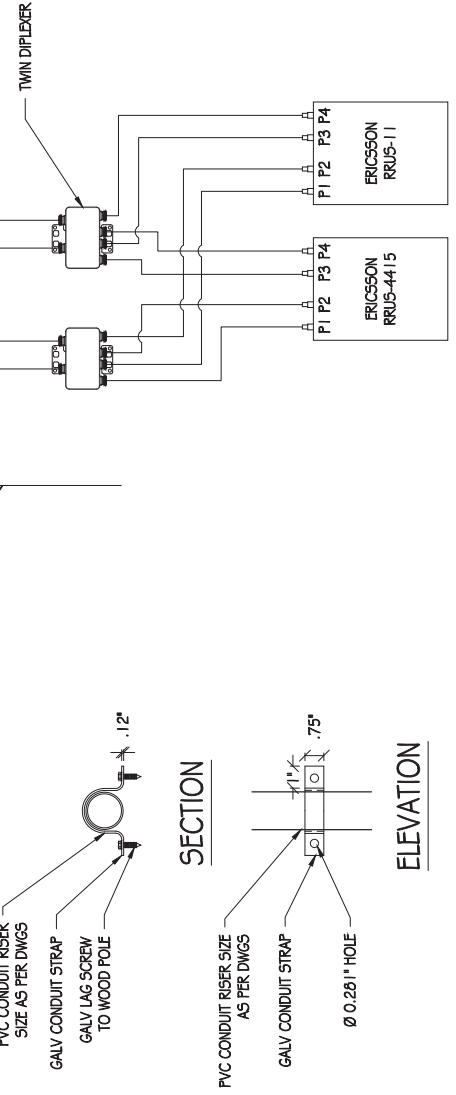
GROUND BAR DETAIL

5 NTS



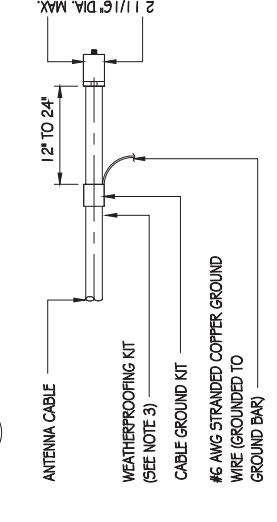
CONDUIT RISER DETAIL

2 NTS



WIRE DIAGRAM DETAIL

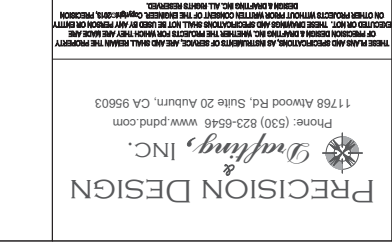
3 NTS



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

GROUND KIT DETAIL

6 NTS



CRAN_RSFR_LOSAO_01
 ROW ADJCT TO 141 ALMOND AVE
 LOS AUTOS, CA 94022

ISSUE STATUS

| DATE | DESCRIPTION | CD | 90% | CD | 100% |
|----------|-------------|----|-----|----|------|
| 06/14/16 | | | | | |
| 10/31/16 | | | | | |

SHEET TITLE:

DRAWN BY: B. LONGBAUGH
 CHECKED BY: T. DCARLO
 APPROVED BY: B. McCOMB
 DATE: 10/31/16

SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER
E-1

ART MOBILITY
 5001 DECIJUTE PARKWAY
 SAN RAMON, CA 94583

36 DECIJUTE PARK, SUITE 210
 RIVINE, CA 92614

11768 Almond Rd, Suite 20 Auburn, CA 95603
 Phone: (530) 823-6546 www.pdrd.com

REGISTERED PROFESSIONAL ENGINEER
 VINCENT DE CARLO
 C 68891



ART MOBILITY
5001 DECUJIVE PARKWAY
SAN RAMON, CA 94583



36 DECUJIVE PARK, SUITE 210
RIVINE, CA 92614

PRECISION DESIGN
&
Griffing, INC.
Phone: (530) 823-6546 www.pdnd.com
11788 Alwood Rd, Suite 20 Auburn, CA 95603



CRAN_RSFR_LOS90_01
ROW ADJCT TO 141 ALMOND AVE
LOS AUTOS, CA 94022

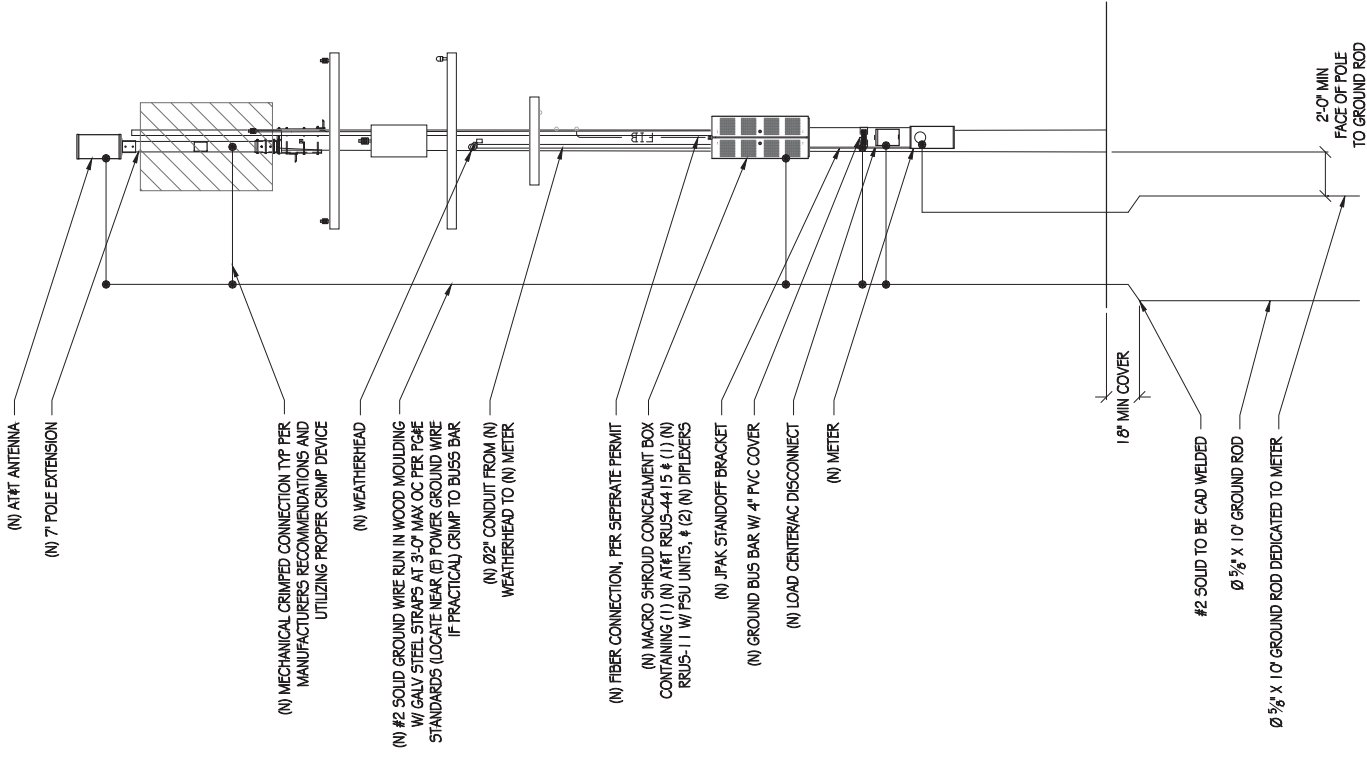
ISSUE STATUS

| DATE | DESCRIPTION |
|----------|-------------|
| 06/14/16 | CD 90% |
| 10/31/16 | CD 100% |

DRAWN BY: B. LONGBAUGH
CHECKED BY: T. DCARLO
APPROVED BY: B. MCCOMB
DATE: 10/31/16
SHEET TITLE:

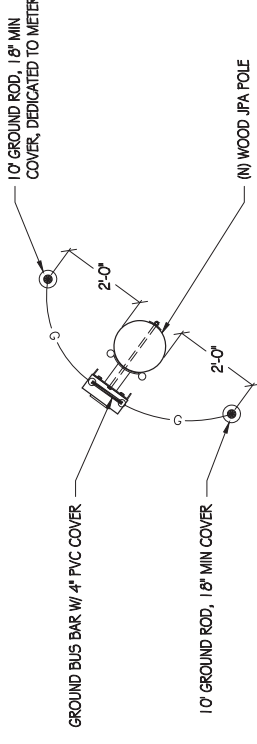
GROUNDING DIAGRAMS
SHEET NUMBER

E-2



POLE GROUNDING DIAGRAM

NTS



GROUNDING PLAN

NTS

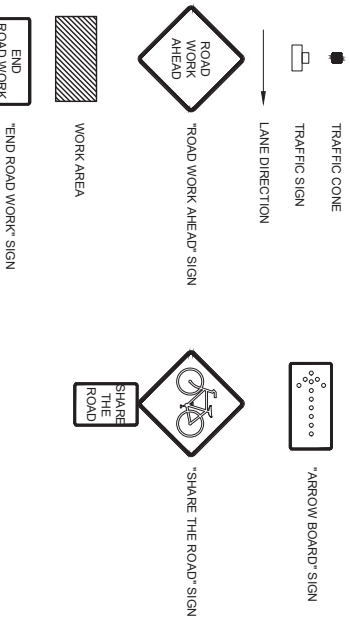
TRAFFIC CONTROL NOTES:

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN... 2. ALL DELIMITATORS SHALL BE EQUIPPED WITH REFLECTORS AT NIGHT TIME... 21. A 5'-0" MIN. PEDESTRIAN CLEARANCE TO BE MAINTAINED AT EXISTING SIDEWALKS.

PERMIT NOTES - PLEASE NOTE THE FOLLOWING:

- 1. ANY WORK AT OR WITHIN 150 FEET OF A SIGNALIZED INTERSECTION MAY REQUIRE TRAFFIC CONTROL... 2. ANY WORK IN THE DOWNTOWN CORE AREA REQUIRES A MINIMUM 10 DAY NOTICE TO CITY OF SAN JOSE... 21. A 5'-0" MIN. PEDESTRIAN CLEARANCE TO BE MAINTAINED AT EXISTING SIDEWALKS.

TRAFFIC SYMBOL LEGEND



Project information including date (February 15, 2018), scale, and client address (36 EXECUTIVE PARK, SUITE 210, IRVINE, CA 92614).

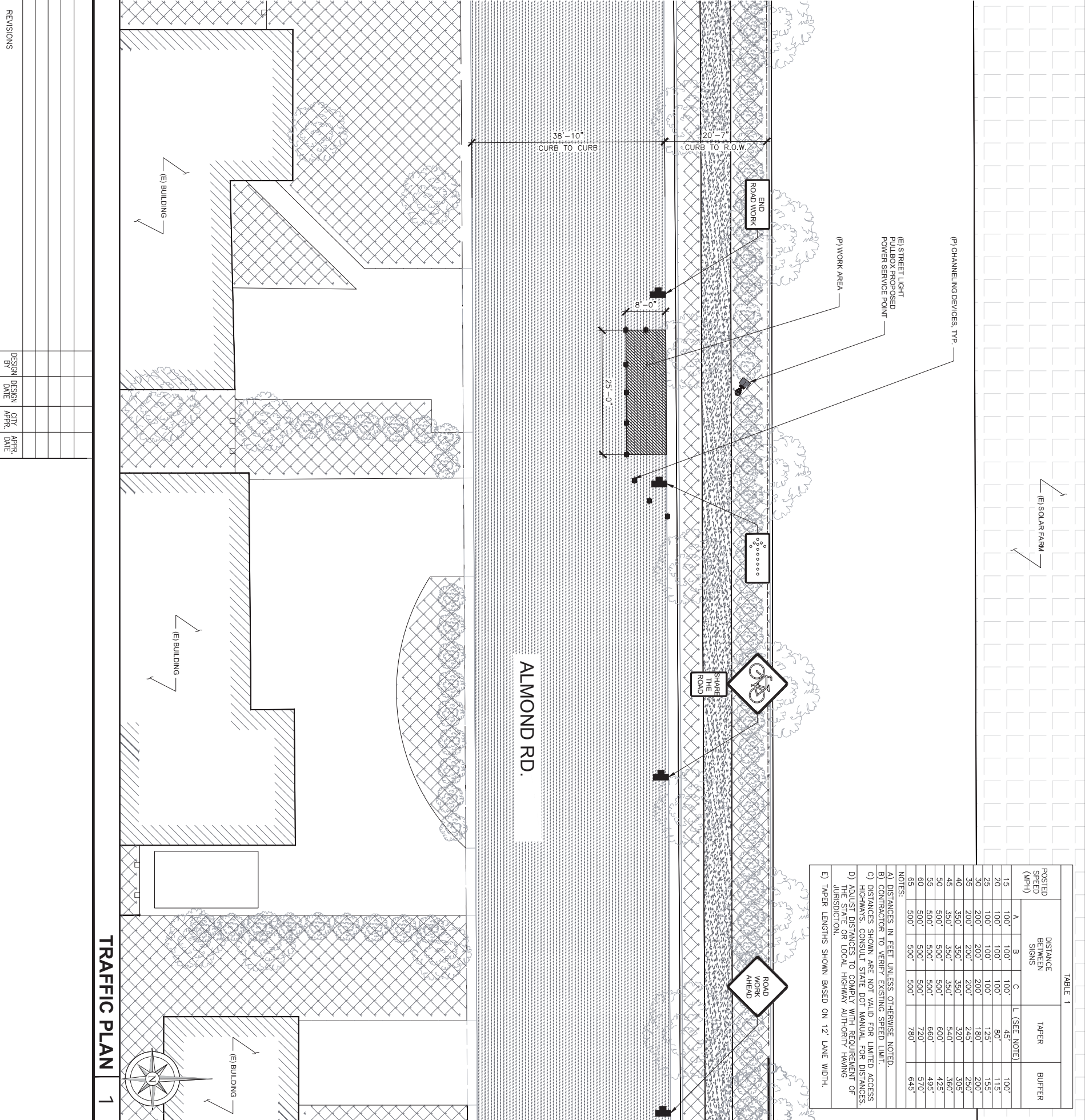


TABLE 1

Table with 5 columns: Posted Speed (MPH), Distance between signs, Taper, and Buffer. Rows show distances for 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, and 75 MPH.

NOTES: A) DISTANCES IN FEET UNLESS OTHERWISE NOTED. B) CONTRACTOR TO VERIFY EXISTING SPEED LIMIT. C) DISTANCES SHOWN ARE NOT VALID FOR LIMITED ACCESS HIGHWAYS... E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH.

Project footer containing logos for Suresite, Ericsson, and at&t, project title (CRAN-RSFR LOSAO_01), sheet number (TR-1), and contact information (6140 Stoneridge Mall, San Ramon, CA 94583).



at&t

SITE ID: CRAN_RSFR_LOSAO_01
 SITE ADDRESS: 141 ALMOND AVE
 LOS ALTOS, CA 94022
 PM#: 114474269
 SITE TYPE: PG&E POLE #TBD
 POLE OWNER: PG&E
 FA LOCATION: 14814202
 USID: 198288



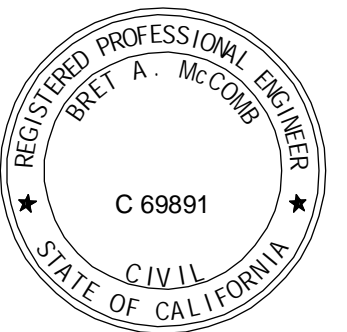
AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

PRECISION DESIGN
 Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 ATWOOD RD, SUITE 20 AUBURN, CA 95603

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 141 ALMOND AVE
 LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/14/18 | CD 90% |
| | 07/25/19 | CD 100% |
| | | |
| | | |

DRAWN BY: B. LONGBAUGH
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19

SHEET TITLE:

TITLE SHEET

SHEET NUMBER

T-1

SITE INFORMATION

APPLICANT: AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583

AGENT: SURESITE
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

APN: ADJCT TO 170-60-001

SITE ADDRESS: 141 ALMOND AVE
 LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 06.29" N (37.385061) NAD 83

LONGITUDE: 122° 06' 36.65" W (-122.110181) NAD 83

GROUND ELEVATION: ± 147.2' AMSL

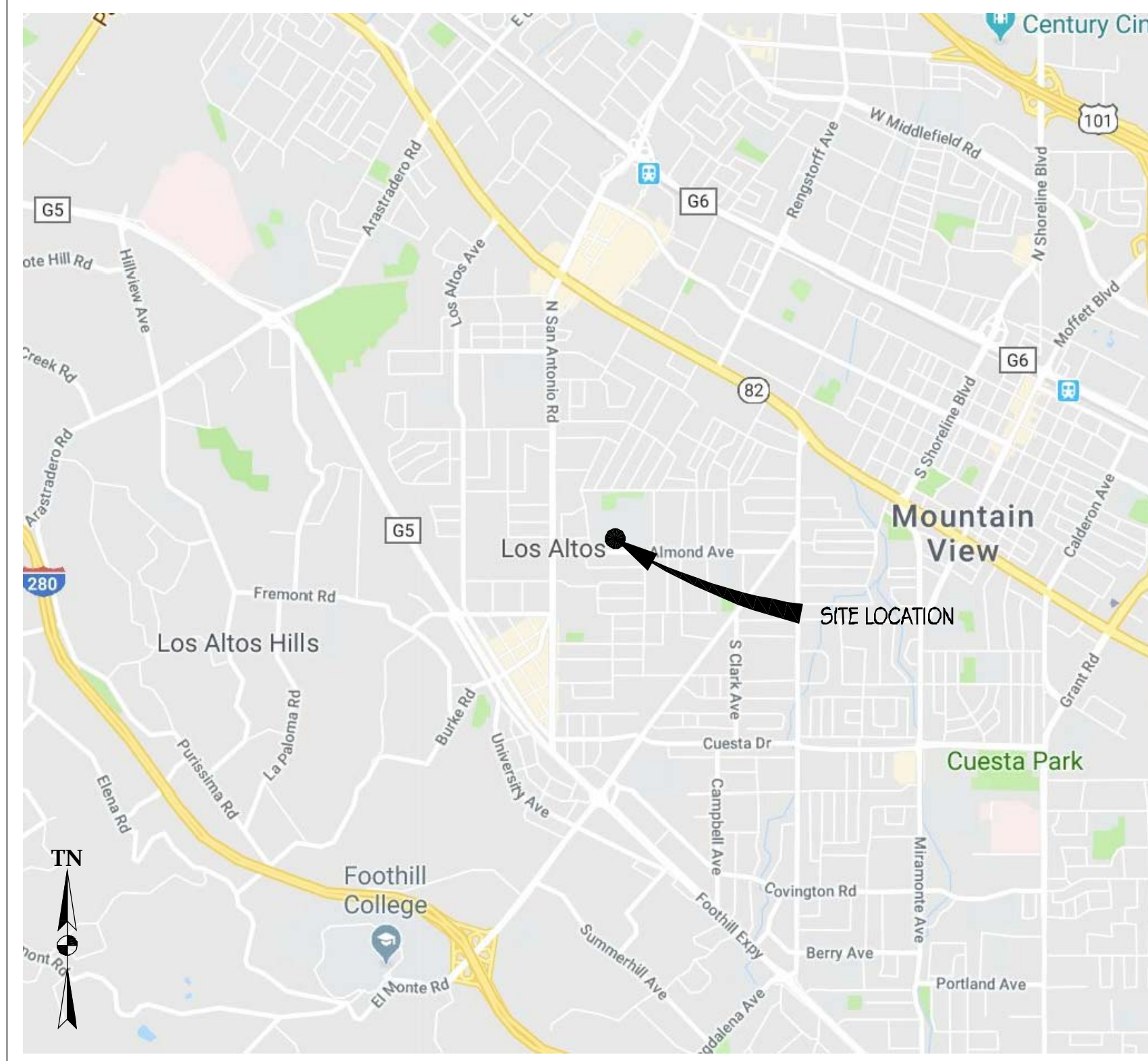
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100512824

STREET CLASSIFICATION: COLLECTOR

VICINITY MAP



PROJECT TEAM

AGENT: SURESITE
 2033 GATEWAY PLACE, 6TH FLOOR
 SAN JOSE, CA 95110
 (949) 278-2962
 L.MEINERS@SURE-SITE.COM

PROJECT MANAGERS:
 CHRIS JOHNSON
 ERICSSON
 6140 STONERIDGE MALL RD, SUITE 350
 PLEASANTON, CA 94588
 (408) 796-8443
 CHRISTOPHER_JOHNSON@ERICSSON.COM

ARCHITECT/ENGINEER OF RECORD:
 BRETT McCOMB
 PRECISION DESIGN & DRAFTING, INC
 11768 ATWOOD ROAD, SUITE #20
 AUBURN, CA 95603
 (530) 823-6546
 BRETT@PDND.COM

CONSTRUCTION MANAGER:
 DELBERT BUTCHER
 ERICSSON
 6140 STONERIDGE MALL ROAD, SUITE 350
 PLEASANTON, CA 94588
 (720) 317-7282

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON AN (E) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

1. INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRUS-4415 & (1) RRUS-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2-0GT CYLINDRICAL ANTENNA.
2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
3. UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
4. FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

DRAWING INDEX

| SHEET NO: | SHEET TITLE |
|-----------|--|
| T-1 | TITLE SHEET |
| T-2 | GENERAL NOTES, LEGEND, & ABBREVIATIONS |
| A-1 | SITE PLAN |
| A-2 | EQUIPMENT PLAN & ANTENNA PLANS |
| A-3 | ELEVATIONS |
| A-4 | ELEVATIONS |
| A-5 | DETAILS |
| A-6 | DETAILS |
| E-1 | SINGLE-LINE DIAGRAM & DETAILS |
| E-2 | GROUNDING DIAGRAMS |

CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 2. 2016 CALIFORNIA BUILDING CODE
 3. 2016 CALIFORNIA ELECTRICAL CODE
 4. 2016 CALIFORNIA MECHANICAL CODE
 5. 2016 CALIFORNIA PLUMBING CODE
 6. 2016 CALIFORNIA FIRE CODE
 7. LOCAL BUILDING CODES
 8. CITY/COUNTY ORDINANCES
 9. ANS/IEA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
 TO: 141 ALMOND AVE, LOS ALTOS, CA 94022

1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
2. TURN RIGHT ONTO SUNSET DR 0.1 MI
3. TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
4. MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
5. MERGE ONTO I-680 S 3.9 MI
6. CONTINUE STRAIGHT TO STAY ON I-680 S (SIGNS FOR I-580 W/DUBLINOAKLAND/SAN JOSE) 17.5 MI
7. TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880 0.2 MI
8. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262 S MISSION BLVD 0.3 MI
9. MERGE ONTO CA-262 S MISSION BLVD 0.6 MI
10. TAKE THE EXIT ON THE LEFT TOWARD I-880 S/SAN JOSE 0.9 MI
11. MERGE ONTO I-880 S 3.1 MI
12. TAKE THE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
13. CONTINUE ONTO CA-237 W 8.3 MI
14. KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY FWY 0.5 MI
15. TURN RIGHT ONTO EL CAMINO REAL 1.4 MI
16. TURN LEFT ONTO EL MONTE AVE 0.4 MI
17. TURN RIGHT ONTO N EL MONTE AVE 0.1 MI
18. TURN RIGHT ONTO ALMOND AVE 0.7 MI

END AT: 141 ALMOND AVE, LOS ALTOS, CA 94022
 ESTIMATED TIME: 47 MINS ESTIMATED DISTANCE: 39.8 MI

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

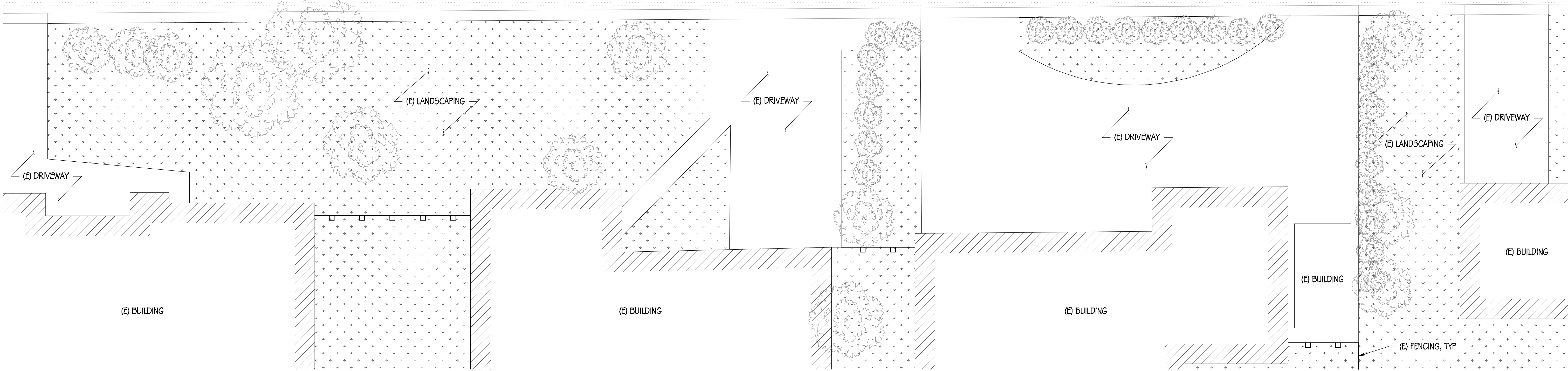
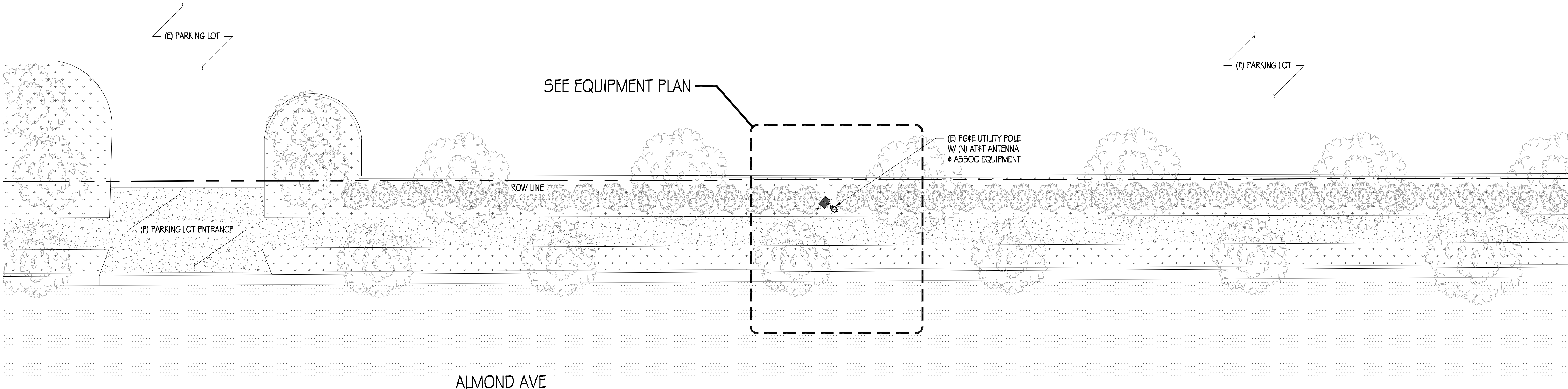
CALL
 "CALL BEFORE YOU DIG"
 811/800-227-2600
 NATIONWIDE UNDERGROUND SERVICE ALERT

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11" X 17" PLOT. DRAWINGS WILL BE HALF SCALE.

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT

(E) SOLAR PANELS
 APN: 170-60-001



PRECISION DESIGN
Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 Alwood Rd, Suite 20 Auburn, CA 95603

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141 ALMOND AVE
 LOS ALTOS, CA 94022

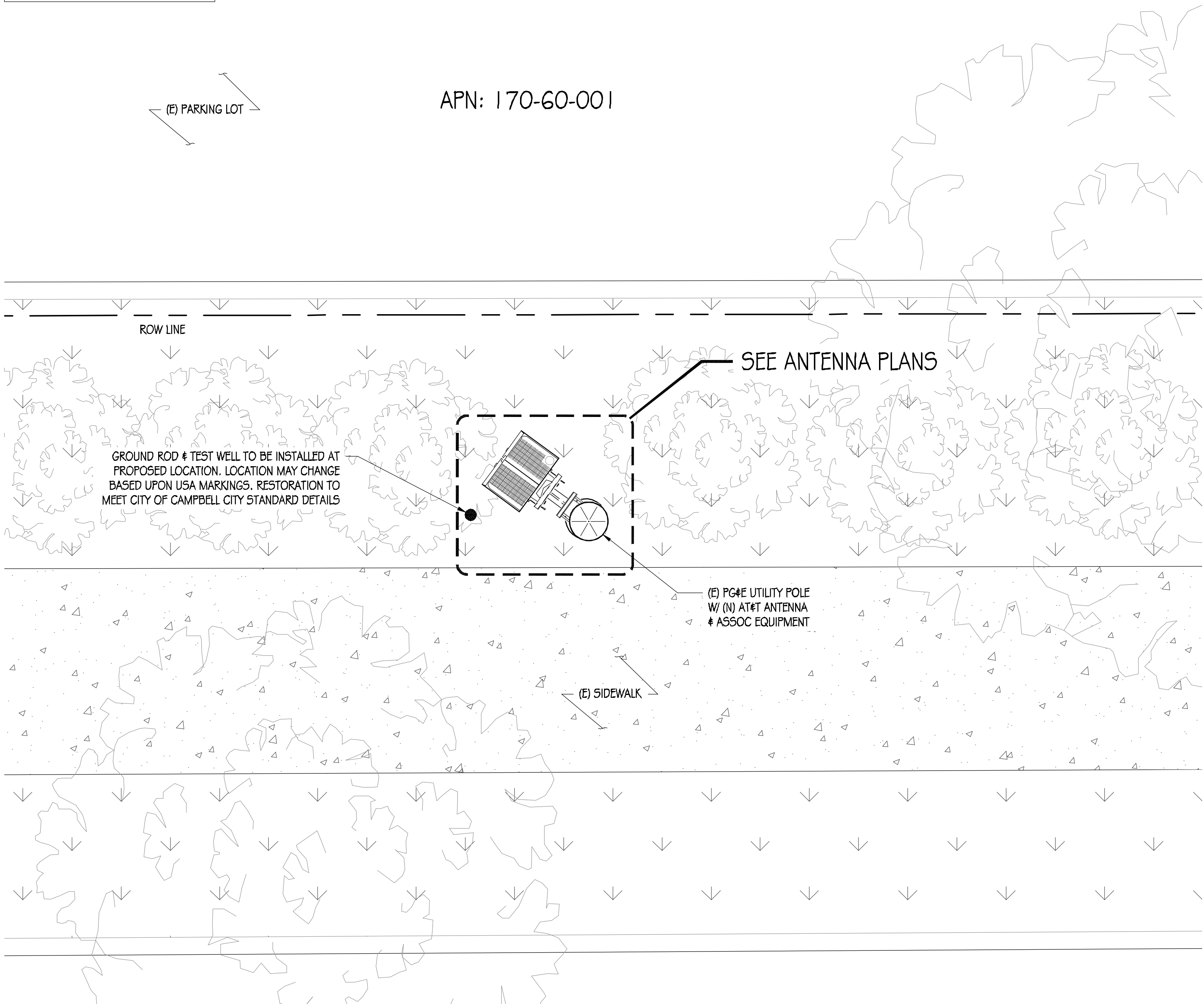
ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/14/18 | CD 90% |
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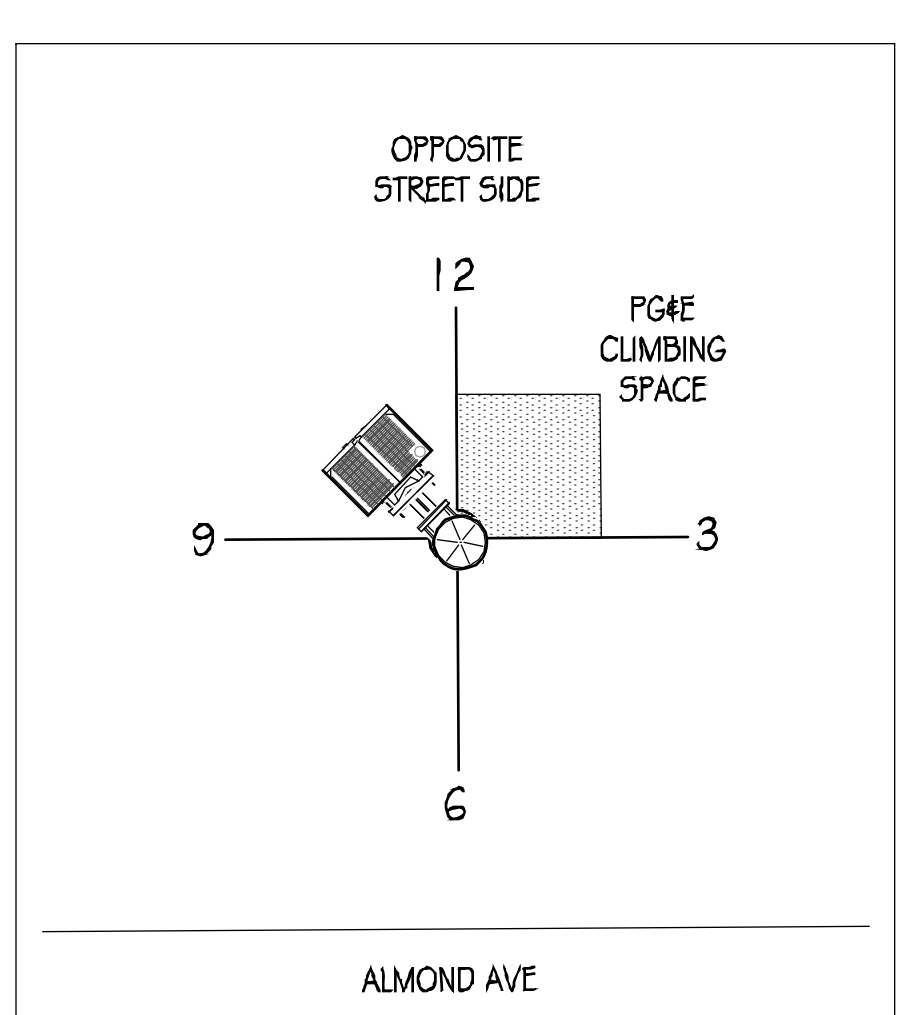
DRAWN BY: B. LONGABAUGH
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19

SHEET TITLE:
 SITE PLAN
 SHEET NUMBER:
 A-1

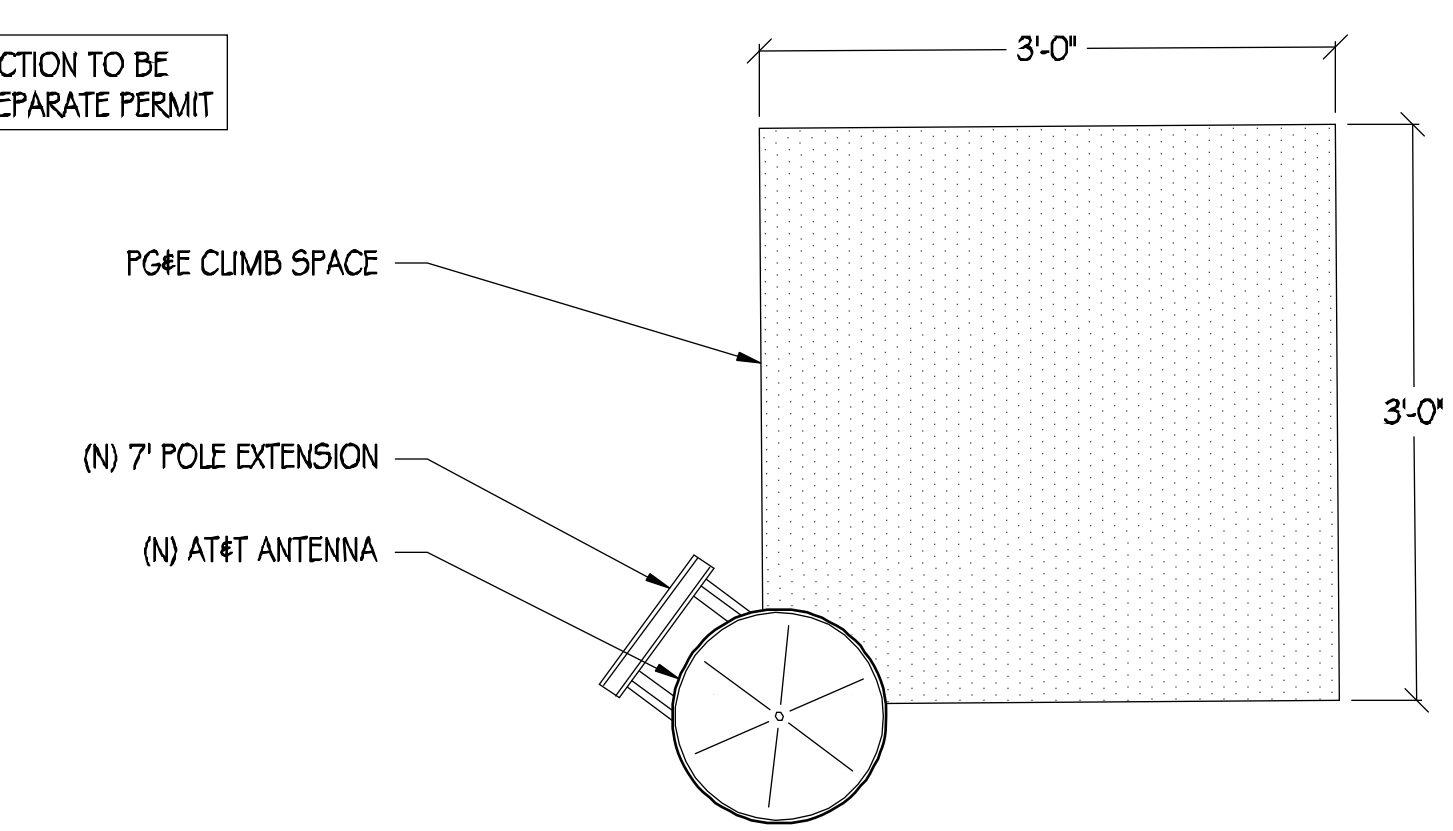
NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.



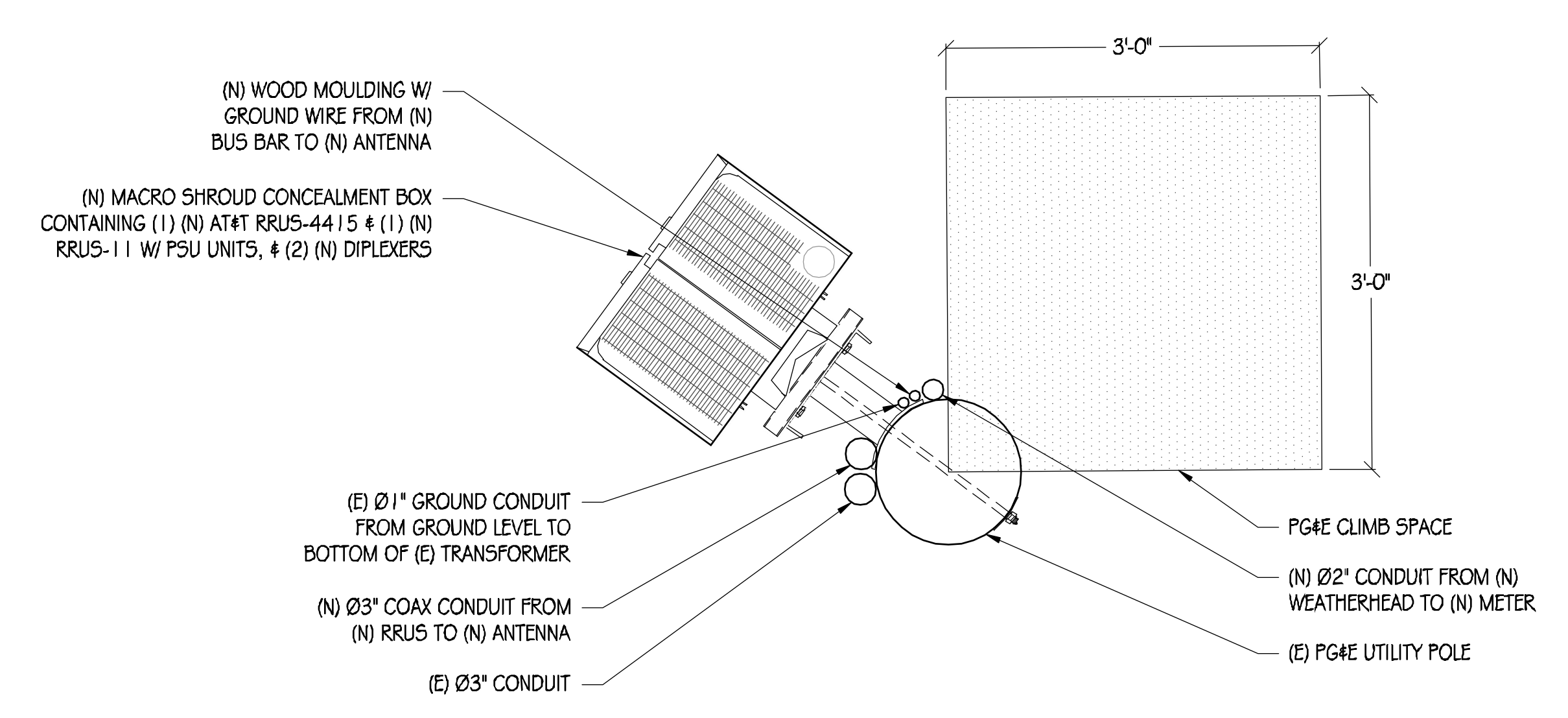
EQUIPMENT PLAN
1/2" = 1'



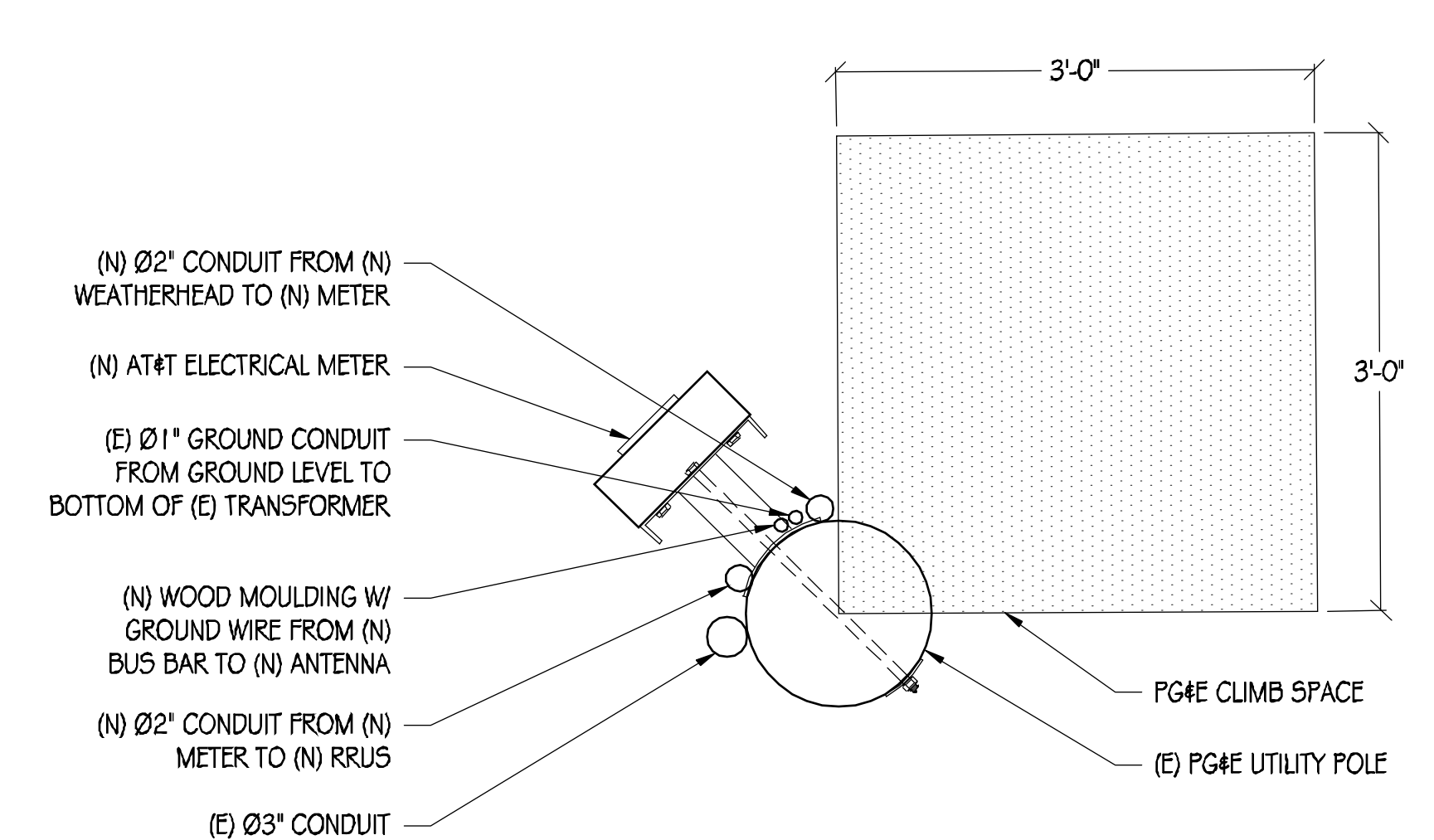
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



ANTENNA PLAN
1" = 1'



RRU PLAN
1" = 1'



ELECTRICAL METER PLAN
1" = 1'



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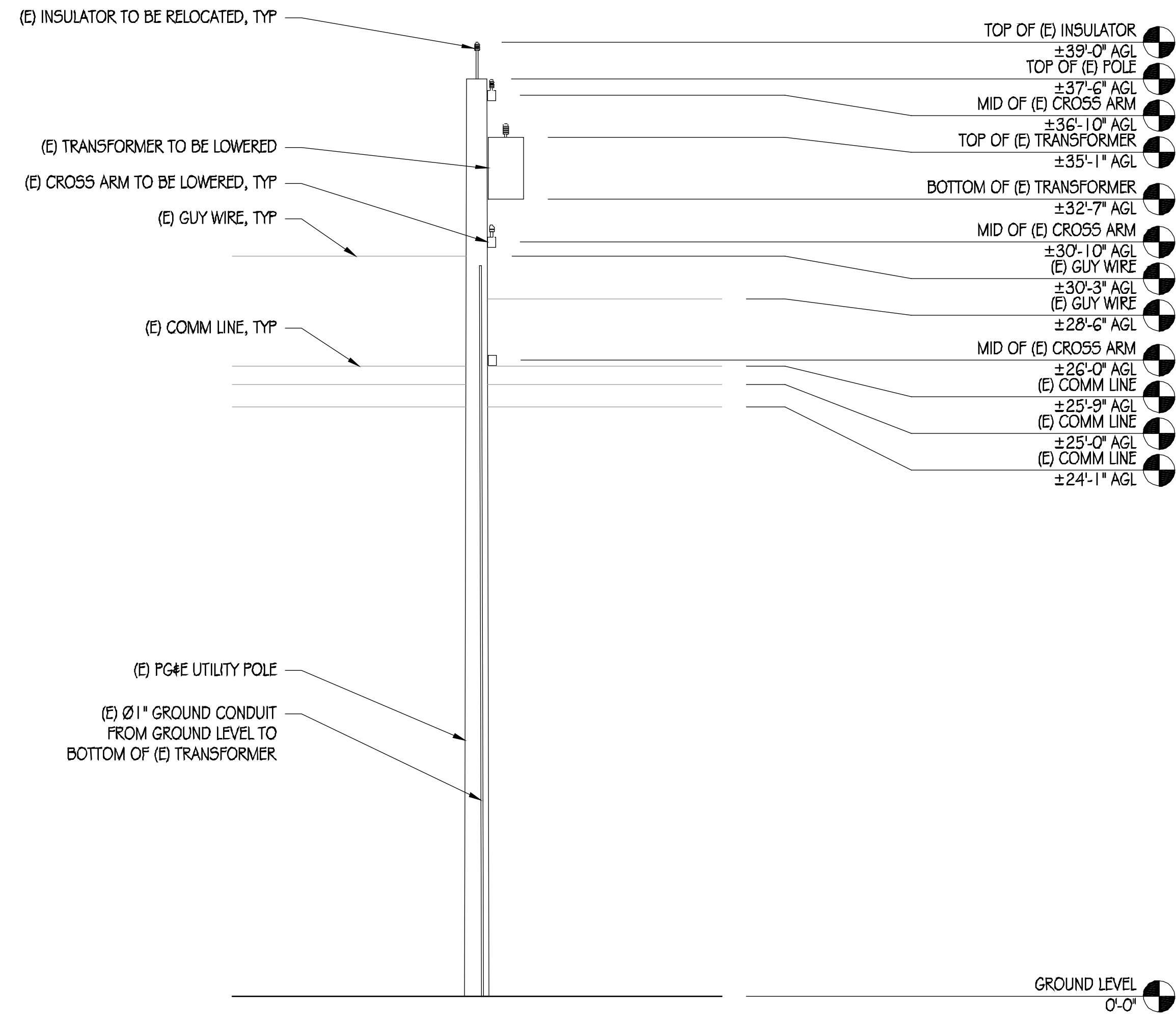
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DRAWN BY: B. LONGBAUGH
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

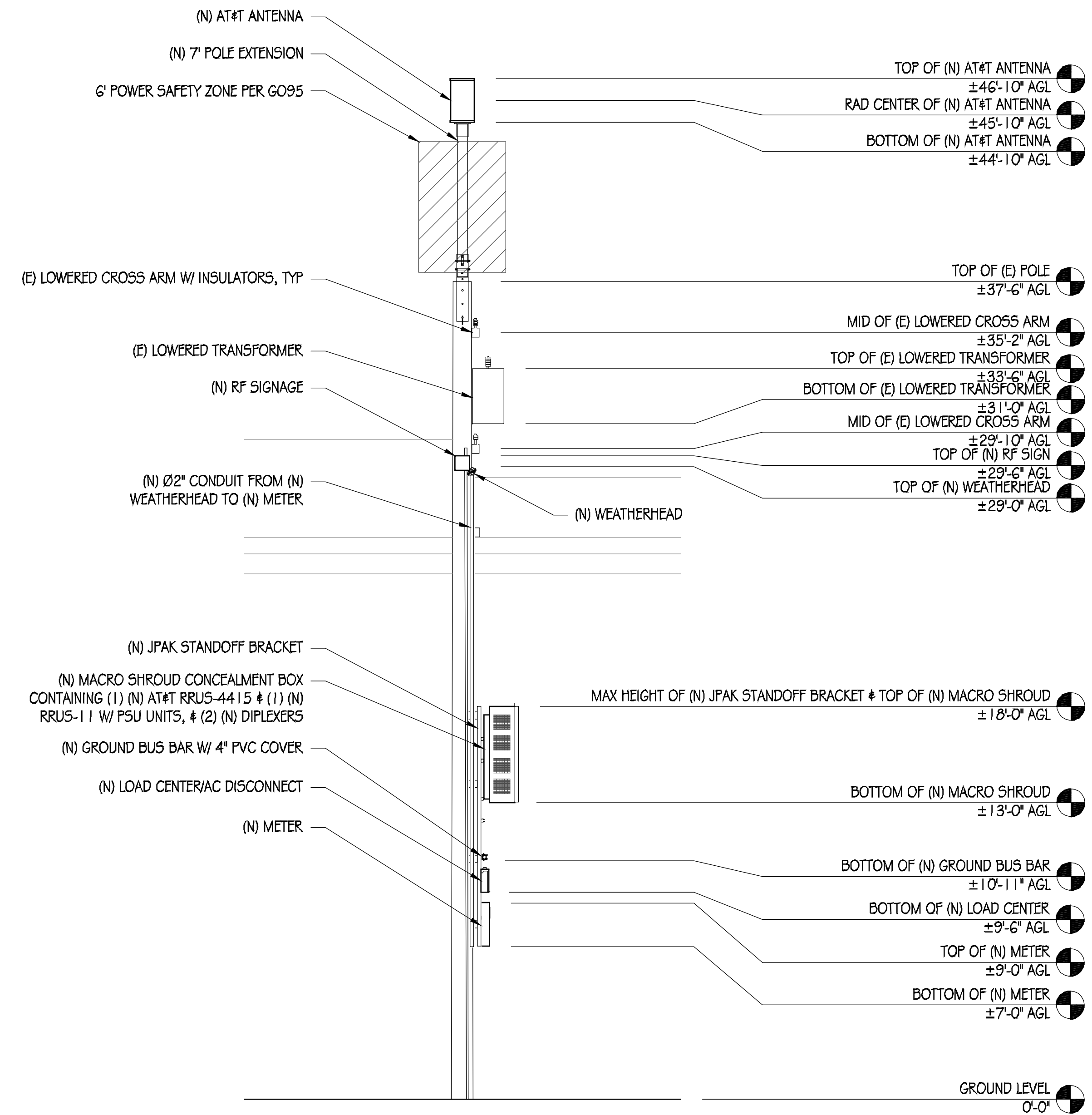
SHEET TITLE:
EQUIPMENT PLAN & ANTENNA PLANS
SHEET NUMBER:
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

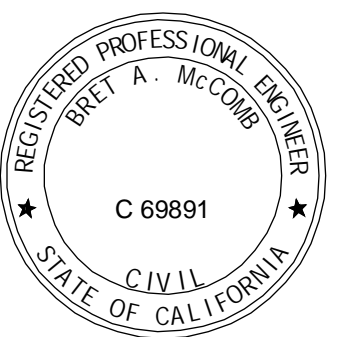


36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.

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141 ALMOND AVE
LOS ALTOS, CA 94022

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DRAWN BY: B. LONGBAUGH

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 07/25/19

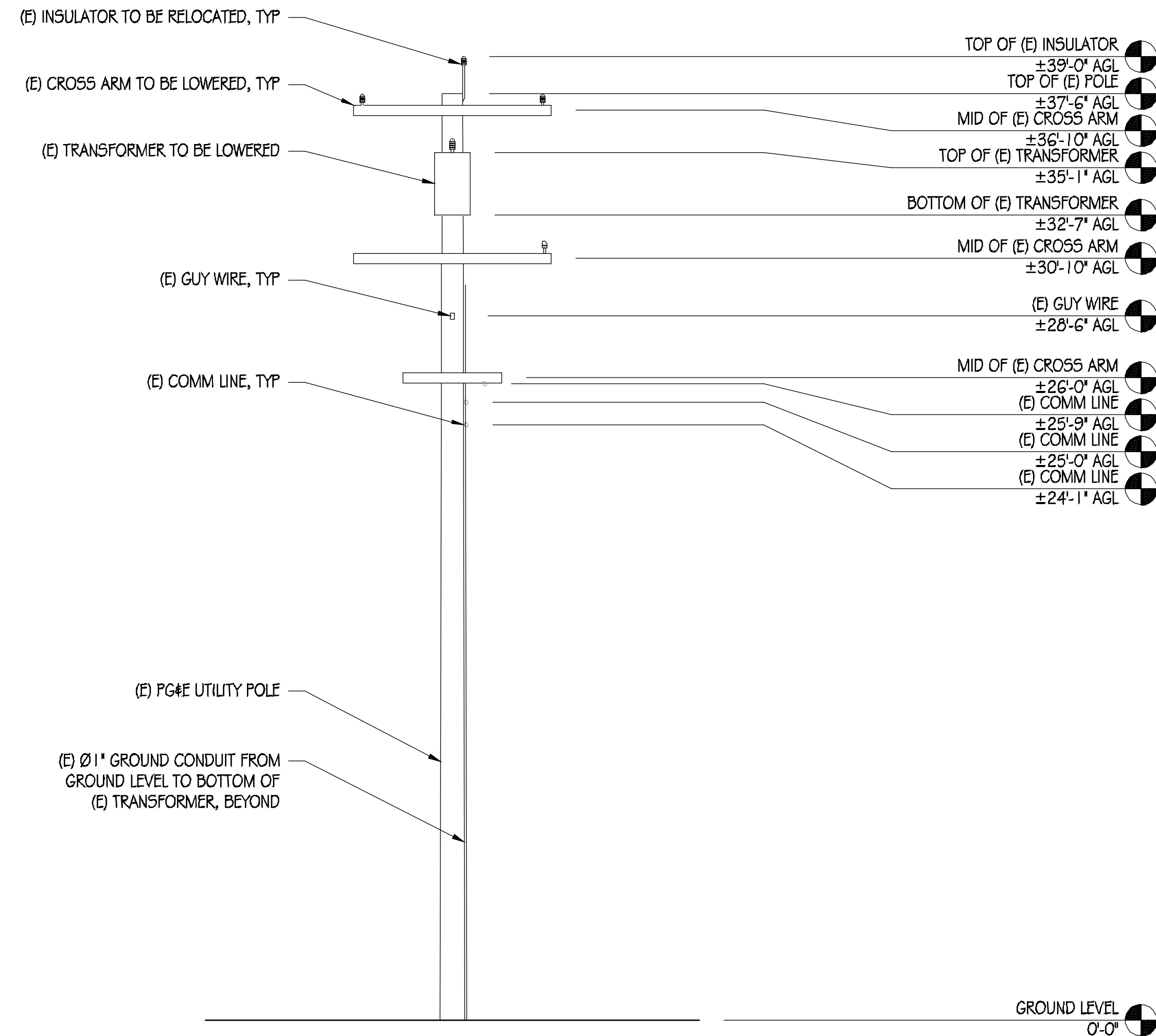
SHEET TITLE:

ELEVATIONS

SHEET NUMBER

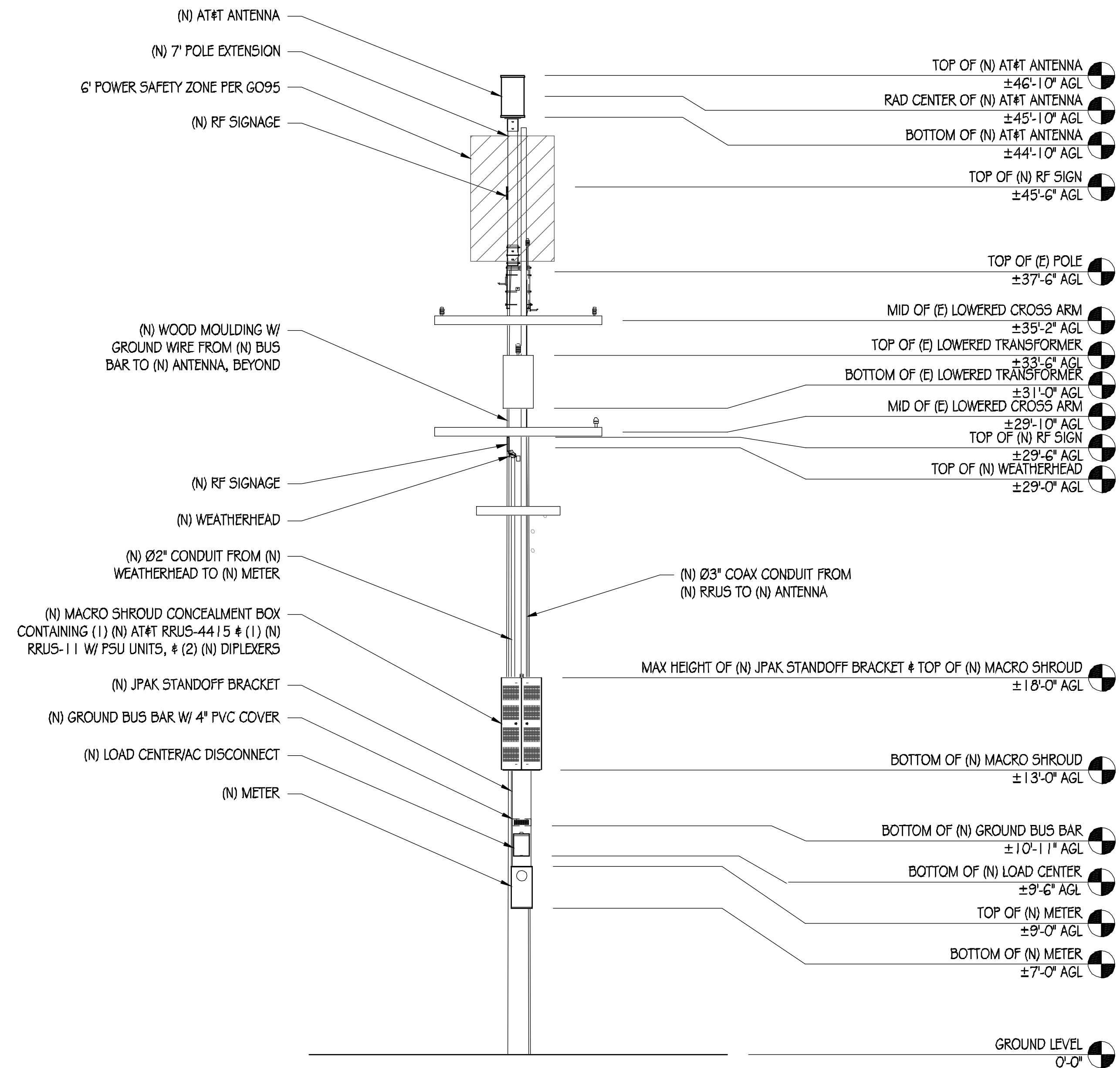
A-3

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING WEST ELEVATION

1/4" = 1'-0"



NEW WEST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

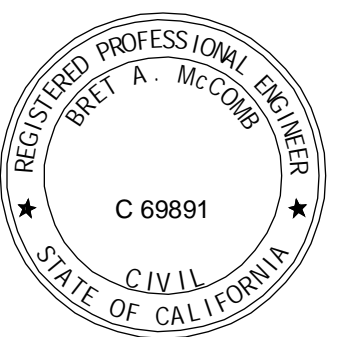


36 DECVTIVE PARK, SUITE 210
IRVINE, CA 92614

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Drafting, INC.

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DATE: 07/25/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

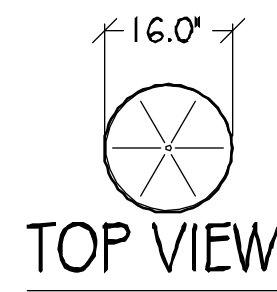
A-4

POLE-TOP EXTENSION NOTES:

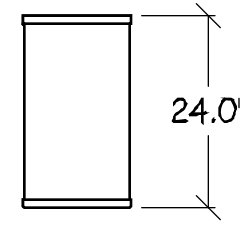
1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT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

KMW FX-OM2L10H2-06T

WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

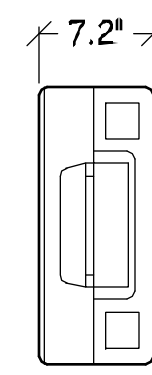


FRONT VIEW

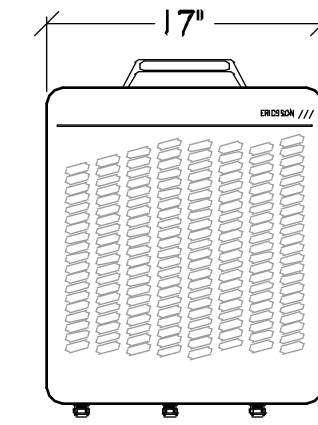
1 ANTENNA
1/2"=1"

ERICSSON RRUS-11

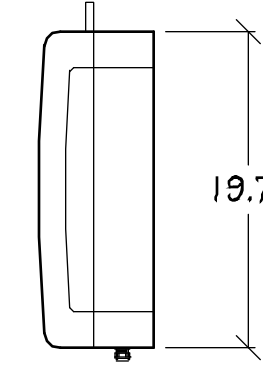
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

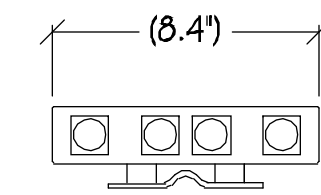


SIDE VIEW

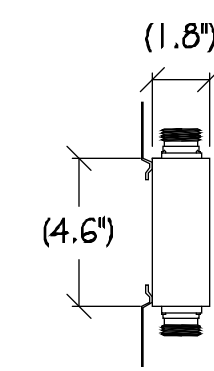
2 RRUS-11 DETAIL
1"=1"

COMMSCOPE CBC1923T-4310/ E11F13P06

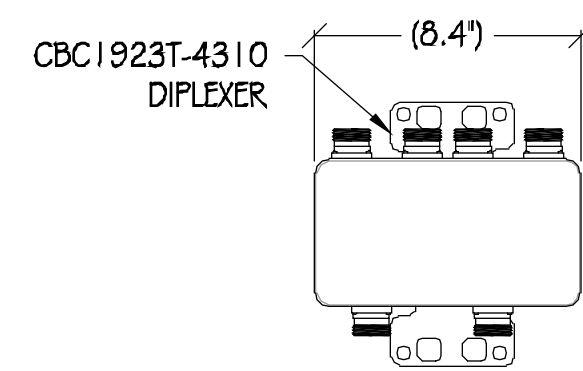
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

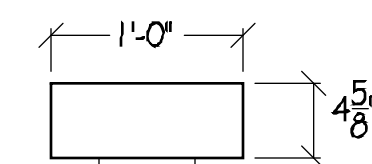


SIDE VIEW

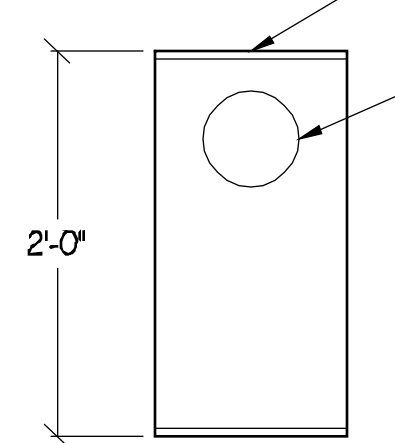


FRONT VIEW

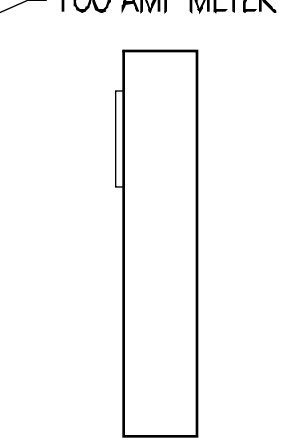
3 DIPLEXER DETAIL
1"=6"



TOP VIEW



FRONT VIEW



SIDE VIEW

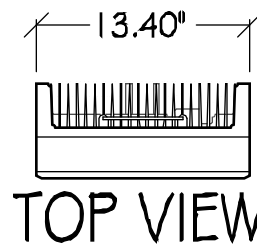
4 METER DETAIL
1"=1"

COOPER B-LINE 114TB ELECTRICAL PANEL TO MEET COMMERCIAL PG&E REQUIREMENTS WITH TEST BYPASS

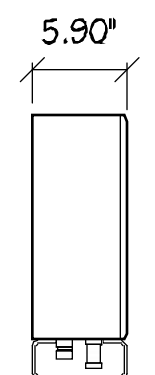
100 AMP METER

ERICSSON RRUS-4415

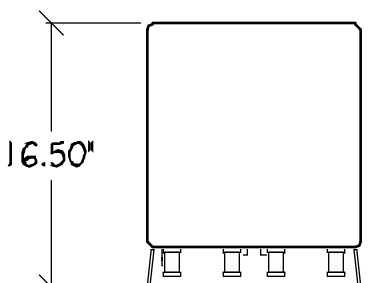
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

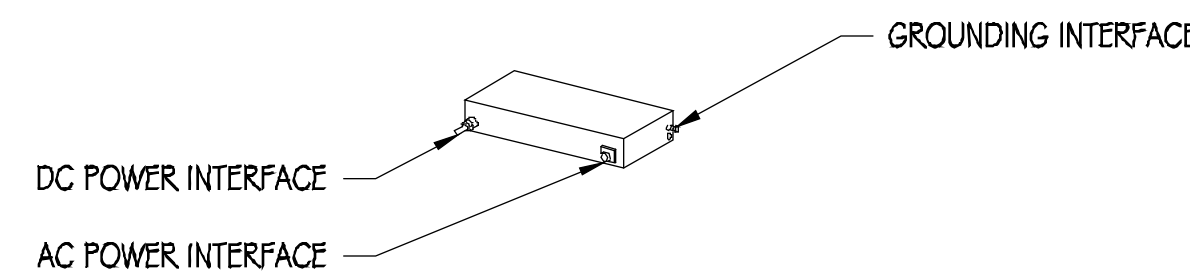


FRONT VIEW

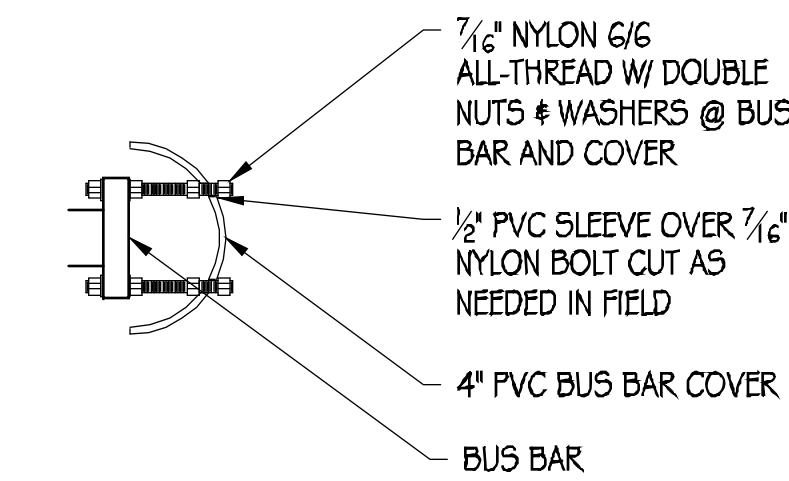
5 RRUS-4415 DETAIL
1"=1"

ERICSSON PSU AC 08

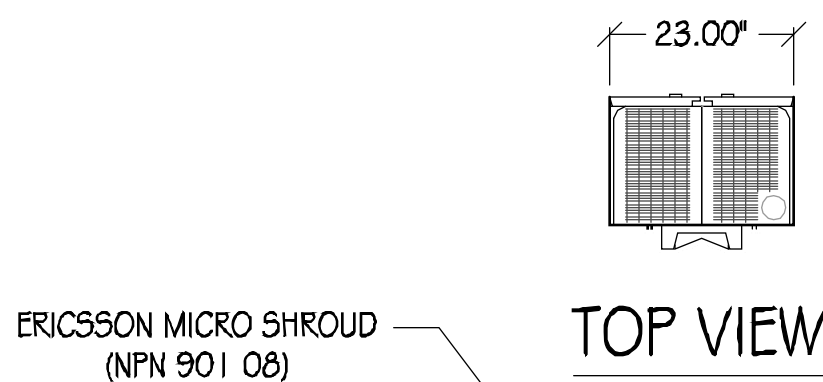
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



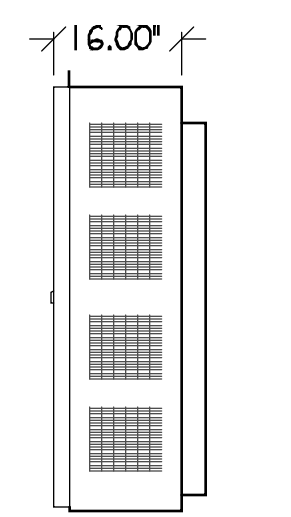
6 AC POWER MODULE
NTS



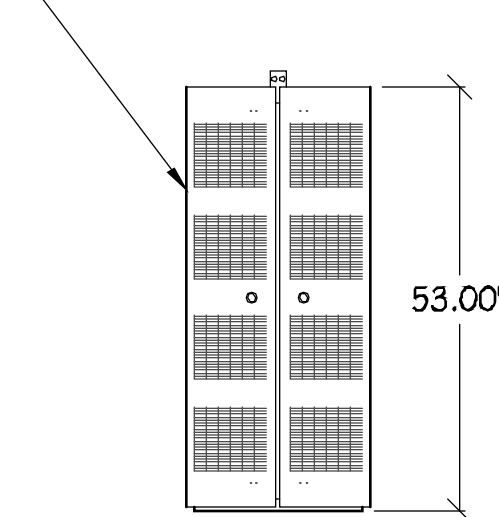
7 BUS BAR COVER
6"=1"



TOP VIEW

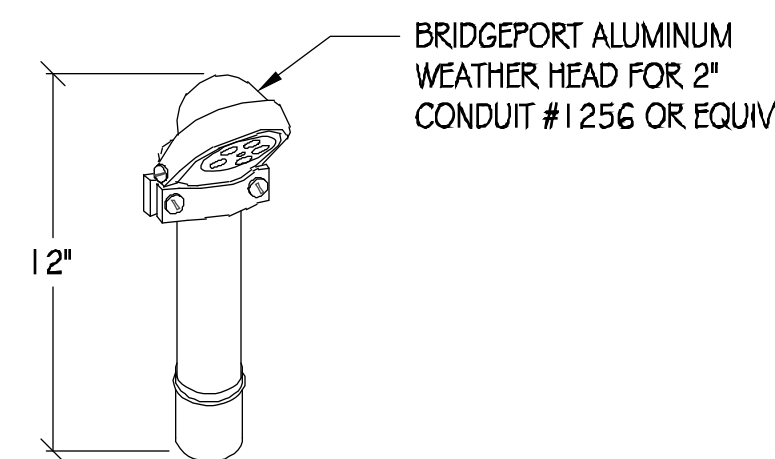


SIDE VIEW



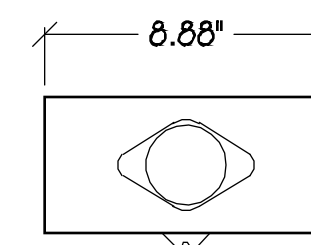
FRONT VIEW

8 MICRO SHROUD CONCEALMENT
1/2"=1"

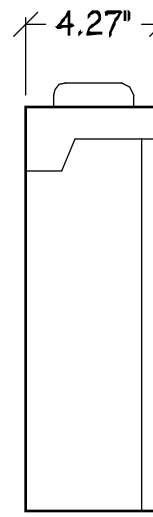


9 WEATHER HEAD
NTS

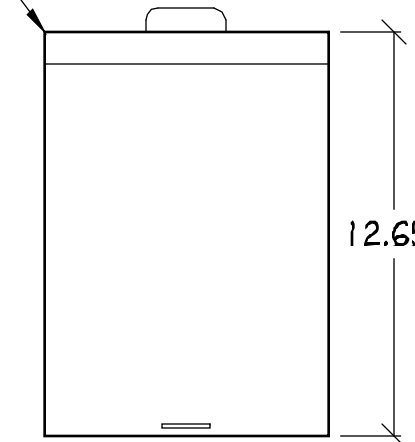
SCHNEIDER ELECTRIC Q0612L100RB



TOP VIEW

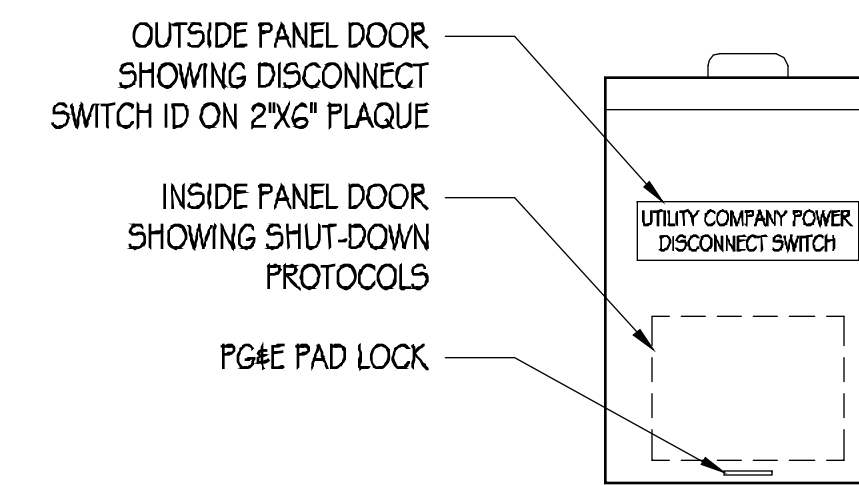


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT
1"=6"



11 DISCONNECT SIGNAGE
3"=1"

SHUTDOWN DISCONNECT

NORMAL SHUT-DOWN PROCEDURES

1. CALL 800 638-2822 NOC 24HRS PRIOR TO SCHEDULE A SHUT-DOWN DAY AND TIME.
2. GIVE NOC THE NODE NUMBER.
3. ON SCHEDULE DAY OF SHUT-DOWN, PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
4. CALL NOC WHEN WORK IS COMPLETED.

EMERGENCY SHUT-DOWN PROCEDURES

1. CALL 800 638-2822 NOC.
2. GIVE NOC THE NODE NUMBER.
3. PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
4. CALL NOC WHEN THE WORK IS COMPLETED.

SHUT-DOWN PROTOCOL ON 3\"/>



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



36 DECEUTIVE PARK, SUITE 210
 IRVINE, CA 92614

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 11768 Alwood Rd, Suite 20 Auburn, CA 95603

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| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/14/18 | CD 90% |
| | 07/25/19 | CD 100% |

DRAWN BY: B. LONGBAUGH

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 07/25/19

SHEET TITLE:

DETAILS

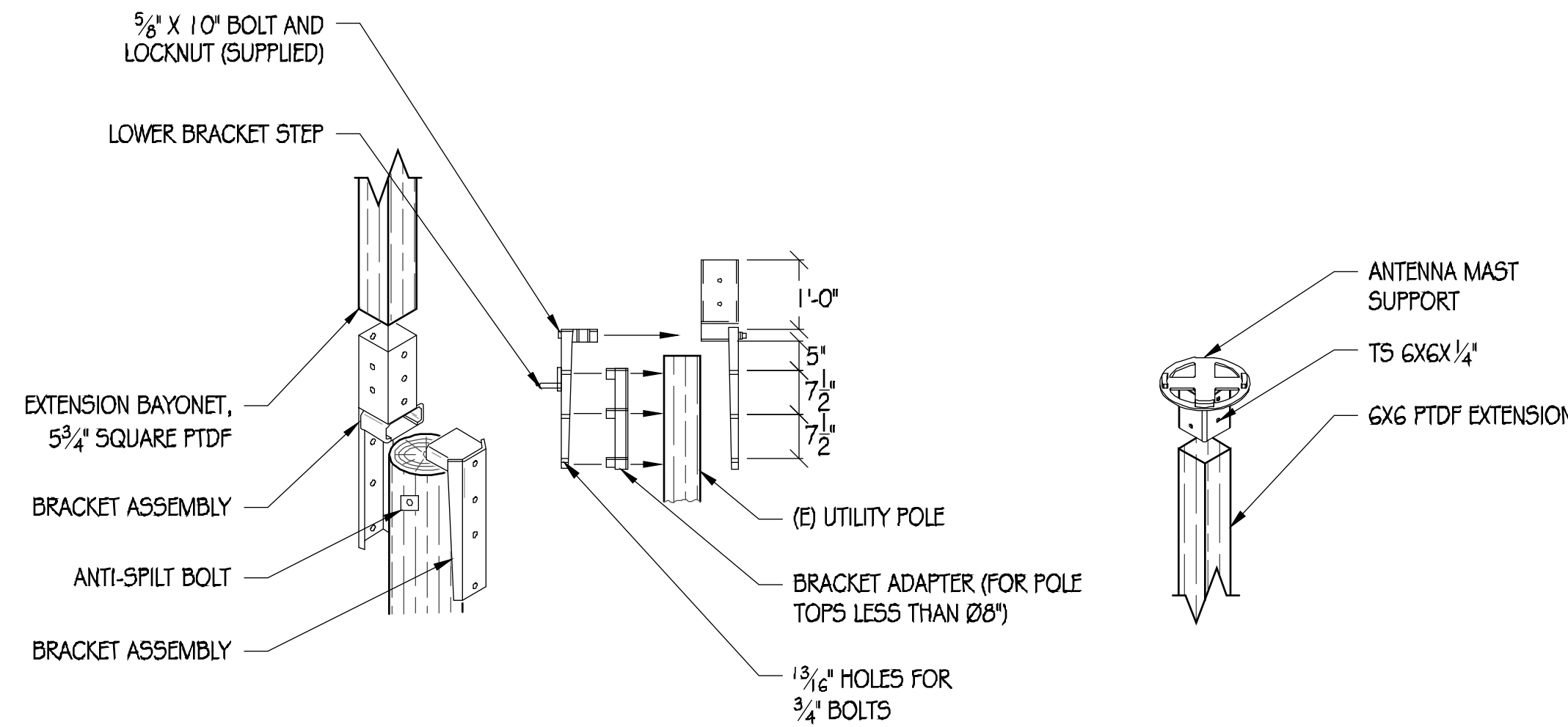
SHEET NUMBER

A-5

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT

STRUCTURAL STEEL NOTES:

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS5) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



1 POLE TOP EXTENSION ASSEMBLY
1/2" = 1'

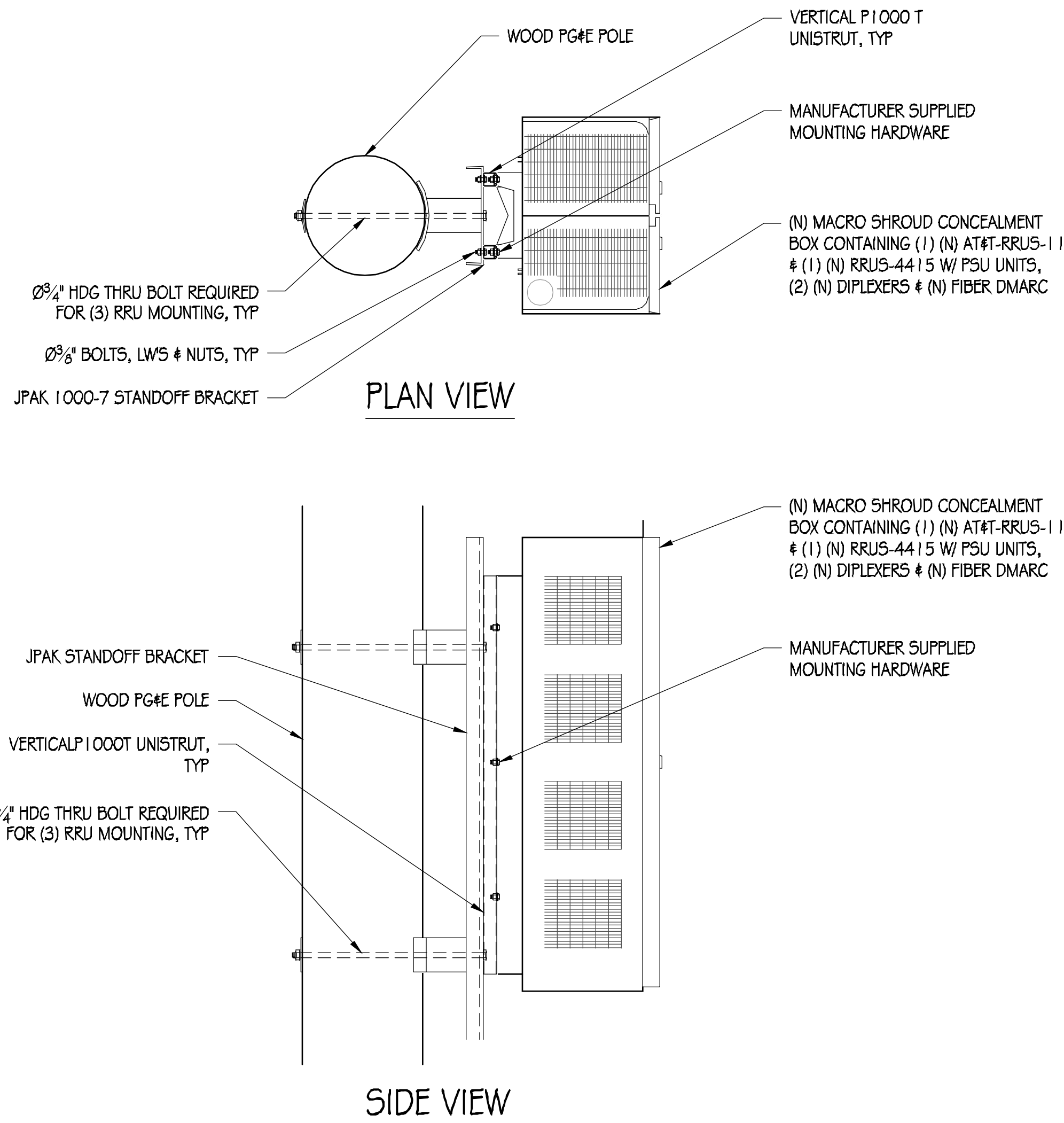
NOTICE

AT&T operates antennas at this structure. Above this point you are entering an area where radio frequency fields may exceed the FCC General Population Exposure Limits. Follow safety guidelines for working in an RF environment. Keep 9' feet away from the fronts of the antennas. Contact AT&T at 800-638-2822 and follow their instructions prior to performing any maintenance or repairs above this point. This is AT&T Site USID _____

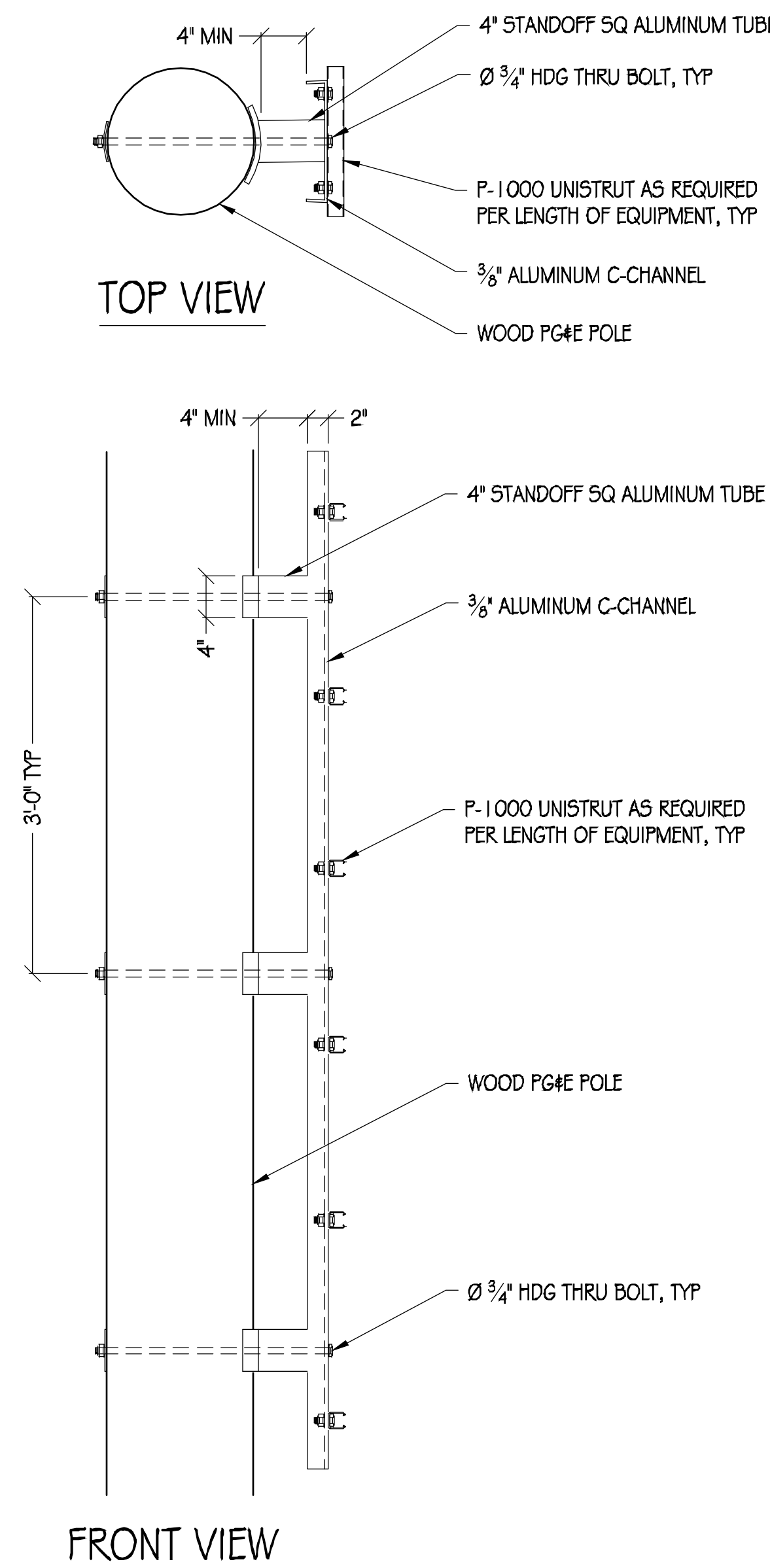
12.25" X 12.25" NOTICE DECAL BLUE DECAL

2 NOTICE SIGNAGE
NTS

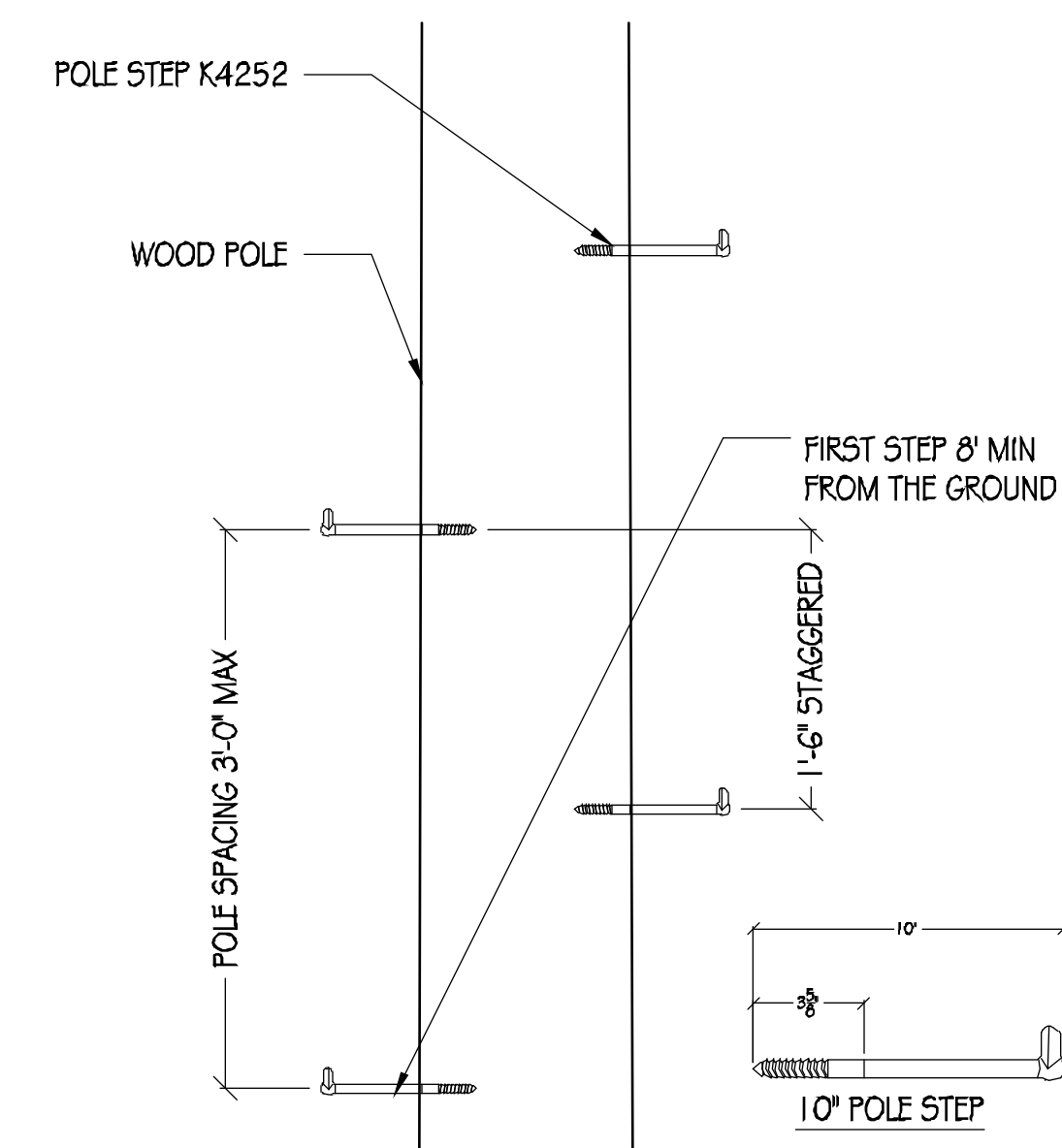
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
 - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA



3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



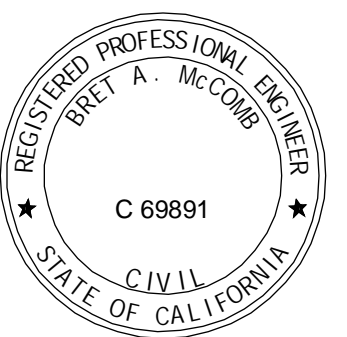
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 SAN RAMON, CA 94583



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 CHECKED BY: T. DICARLO
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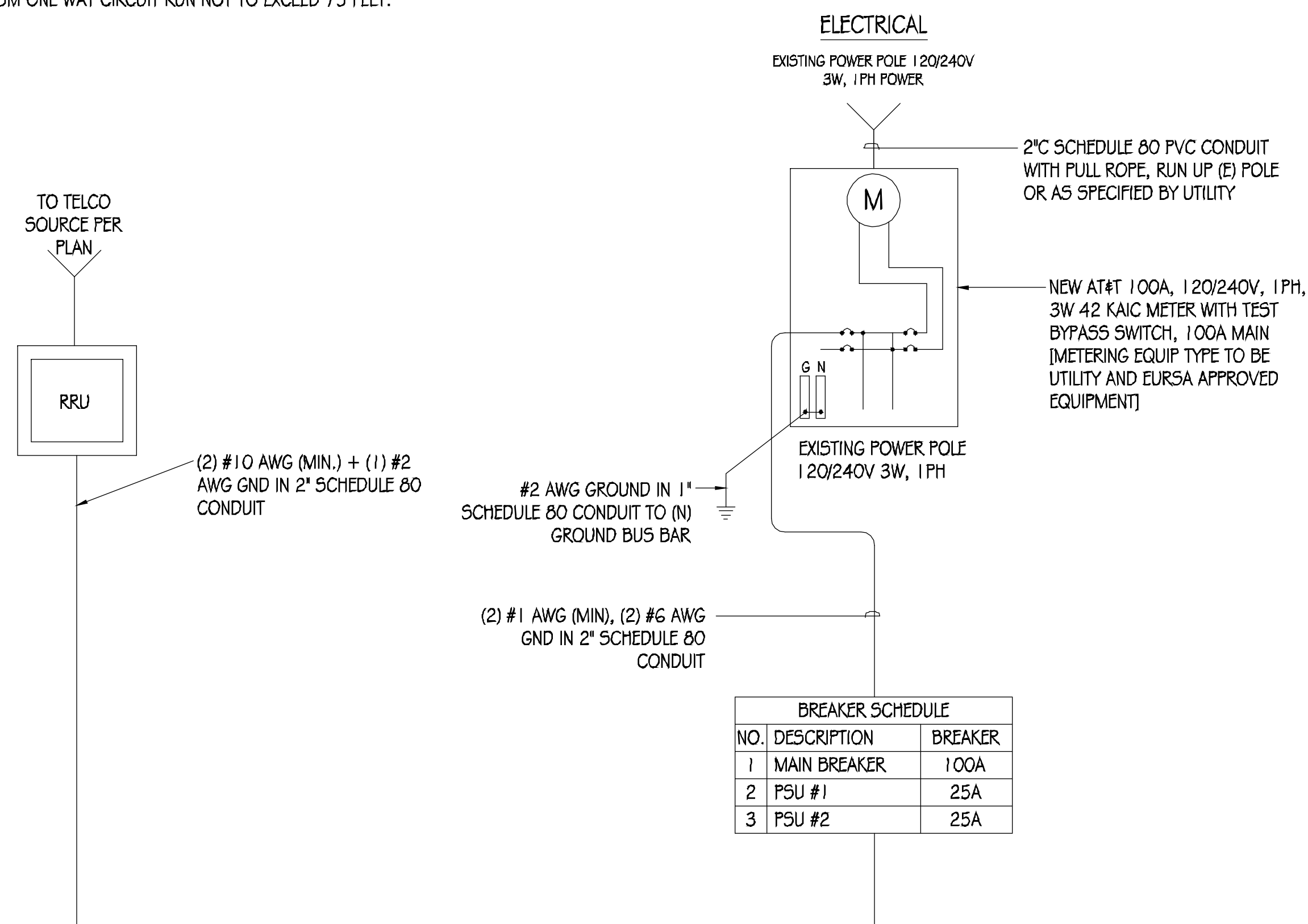
SHEET TITLE:
 DETAILS
 SHEET NUMBER
A-6

GENERAL ELECTRICAL NOTES:

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

POWER AND TELCO NOTES:

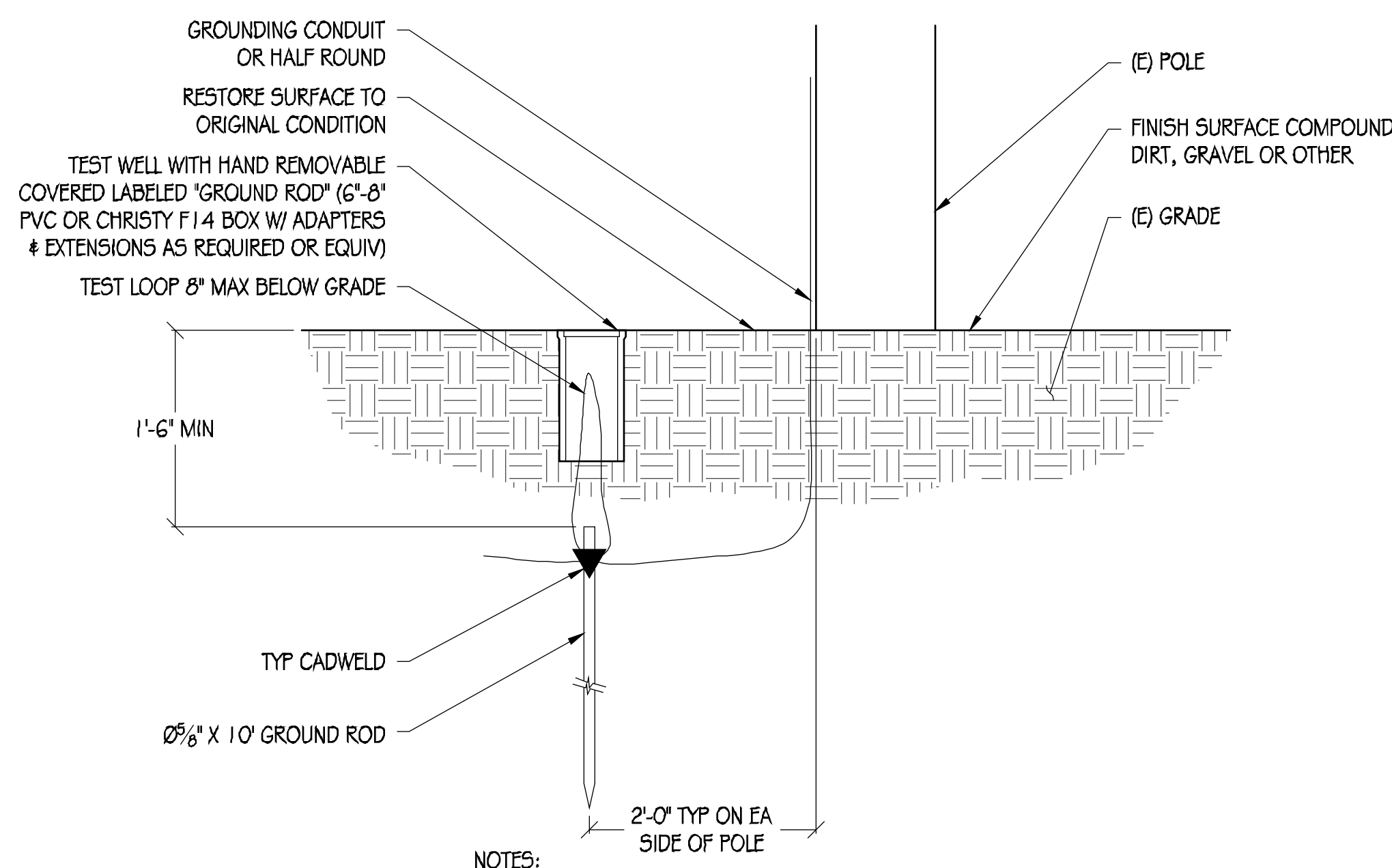
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



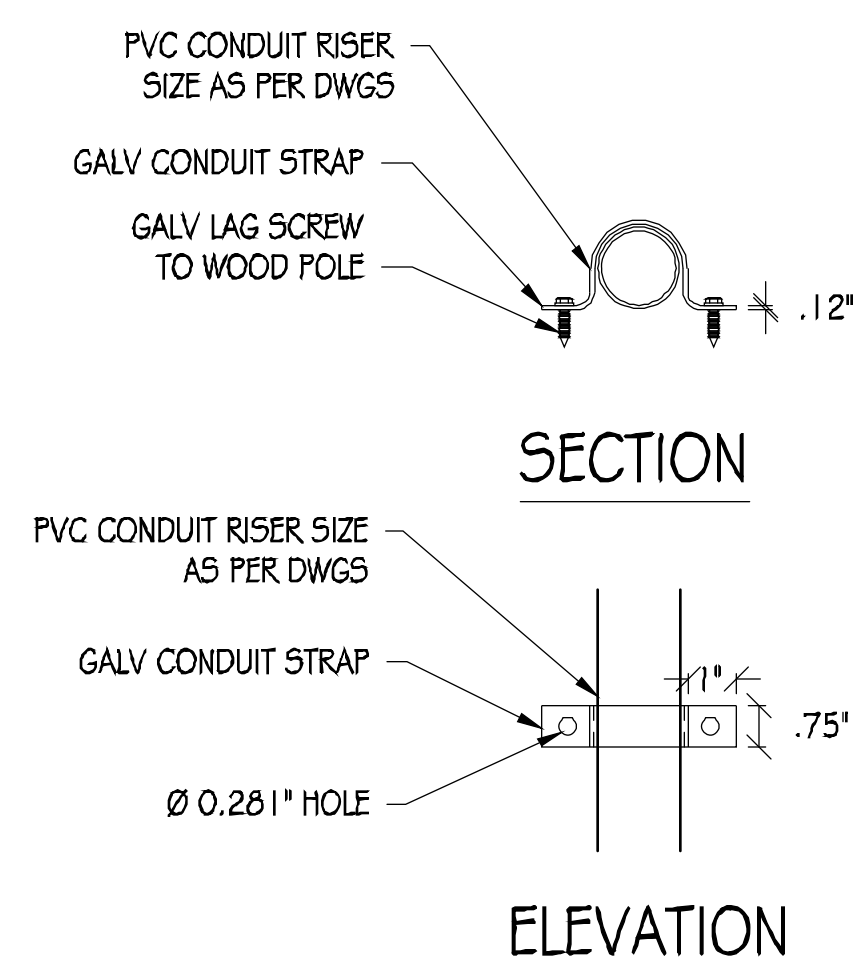
SINGLE-LINE DIAGRAM

LOAD SCHEDULE

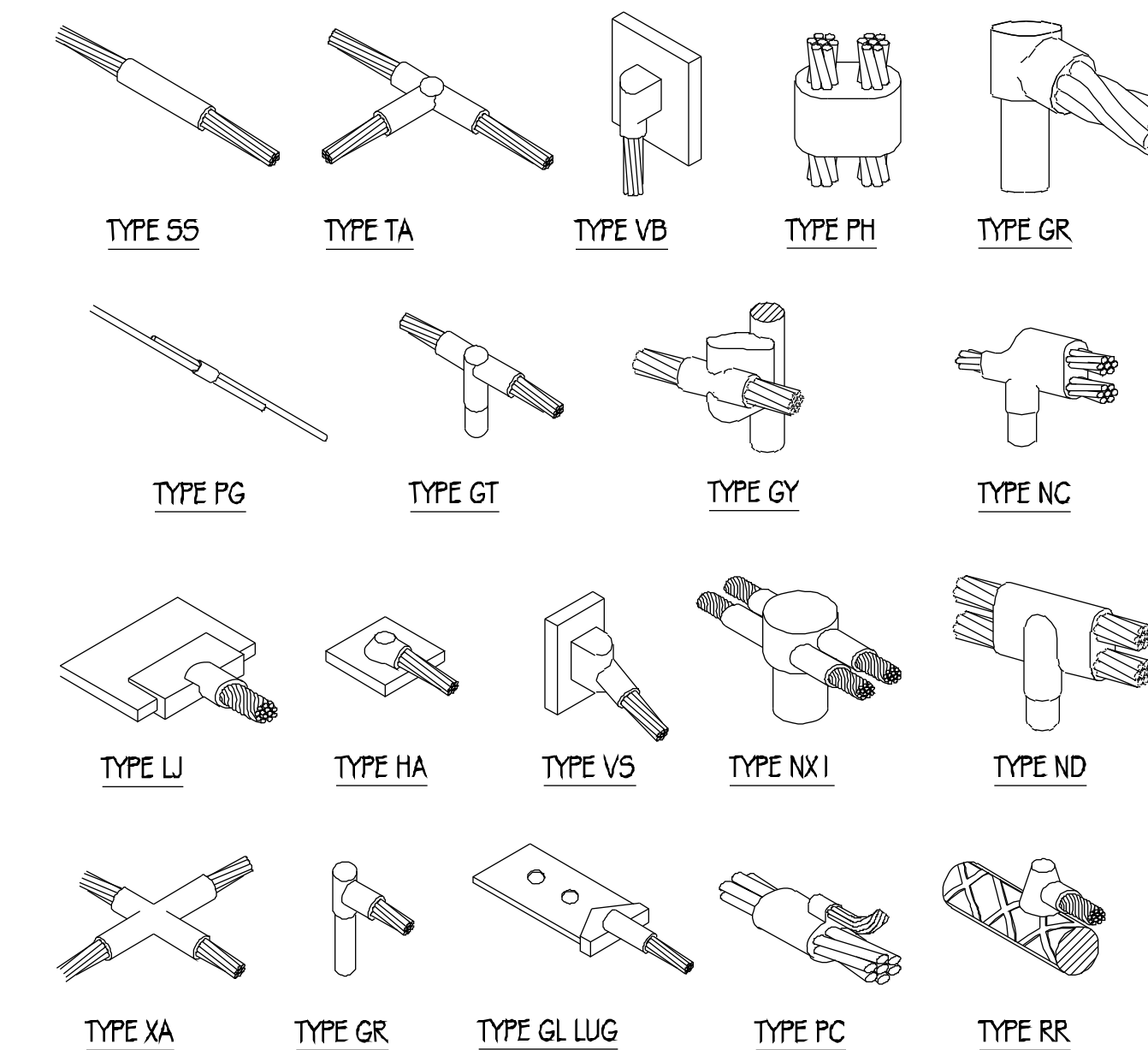
| MAKE/MODEL | QUANTITY | DESCRIPTION | DIMENSIONS | WEIGHT | TX/RX | MAX TRANSMIT POWER | W | HW |
|--------------------|----------|-------------|----------------------|--------------|-------|--------------------|-----|------|
| ERICSSON RRU5-4415 | 1 | RRU5 | 16.5" X 13.4" X 5.9" | 46 LBS | 2T/2R | 4 X 40W | 670 | 0.67 |
| ERICSSON RRU5-11 | 1 | RRU5 | 19.7" X 17.0" X 7.2" | 55 LBS | 2T/2R | 2 X 40W | 520 | 0.52 |
| NEMA 3R ENCLOSURE | 1 | DISCONNECT | 12.7" X 8.9" X 4.3" | 40 LBS (MAX) | N/A | N/A | N/A | N/A |



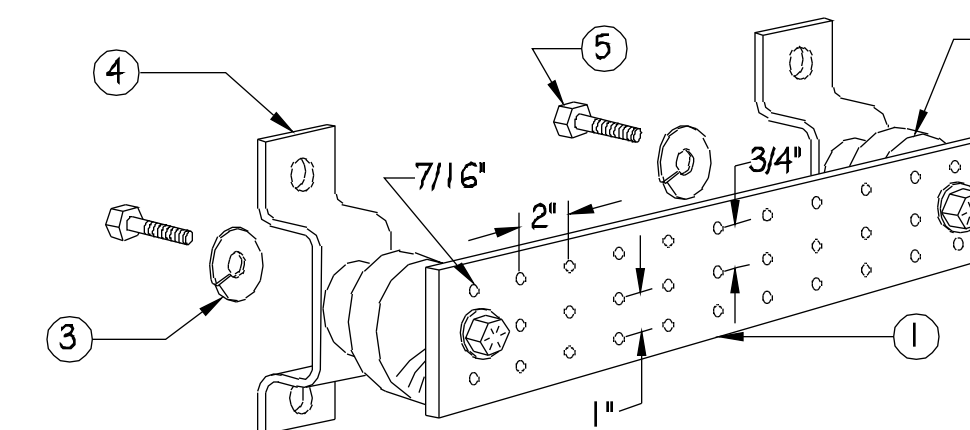
1 POLE GROUNDING DETAIL



2 CONDUIT RISER DETAIL

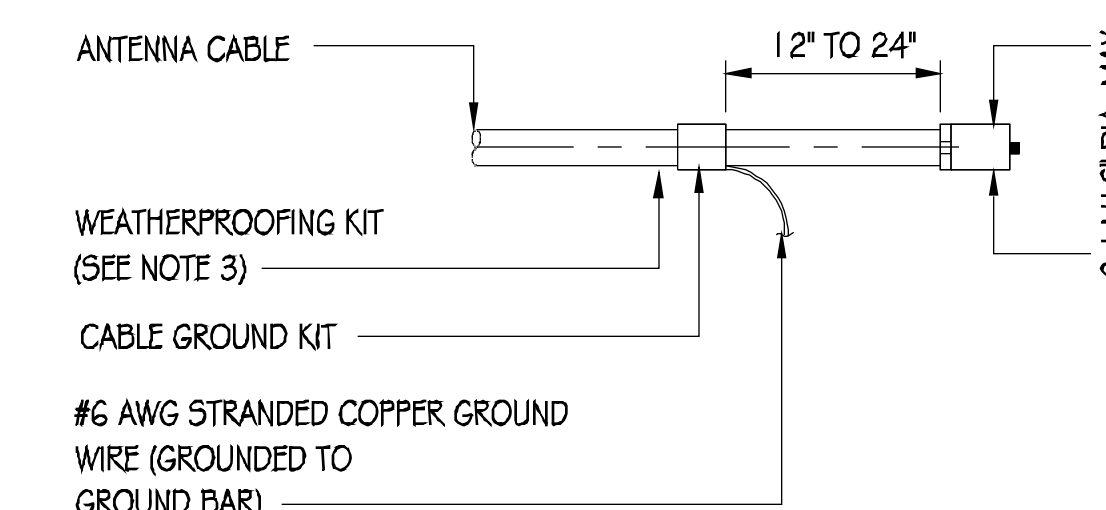


3 EXOTHERMIC WELD DETAILS



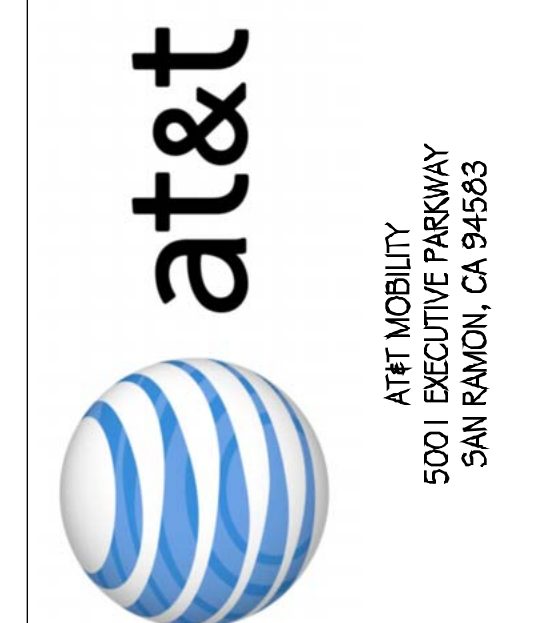
- NOTES:**
1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
 3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED EQUAL
 4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6056 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 TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

4 GROUND BAR DETAIL



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

5 GND KIT DETAIL



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 LOS ALTOS, CA 94022

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DRAWN BY: B. LONGBAUGH
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 APPROVED BY: B. McCOMB
 DATE: 07/25/19
 SHEET TITLE:

SINGLE-LINE DIAGRAM & DETAILS
 SHEET NUMBER
E-1



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

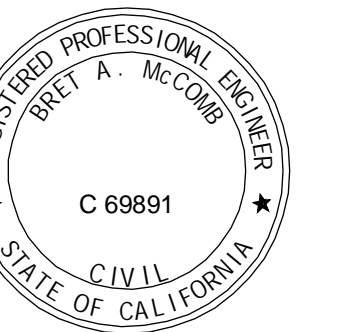


36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.

Phone: (530) 822-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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CRAN_RSFR_LOSAO_01

141 ALMOND AVE
LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/14/18 | CD 90% |
| | 07/25/19 | CD 100% |
| | | |
| | | |

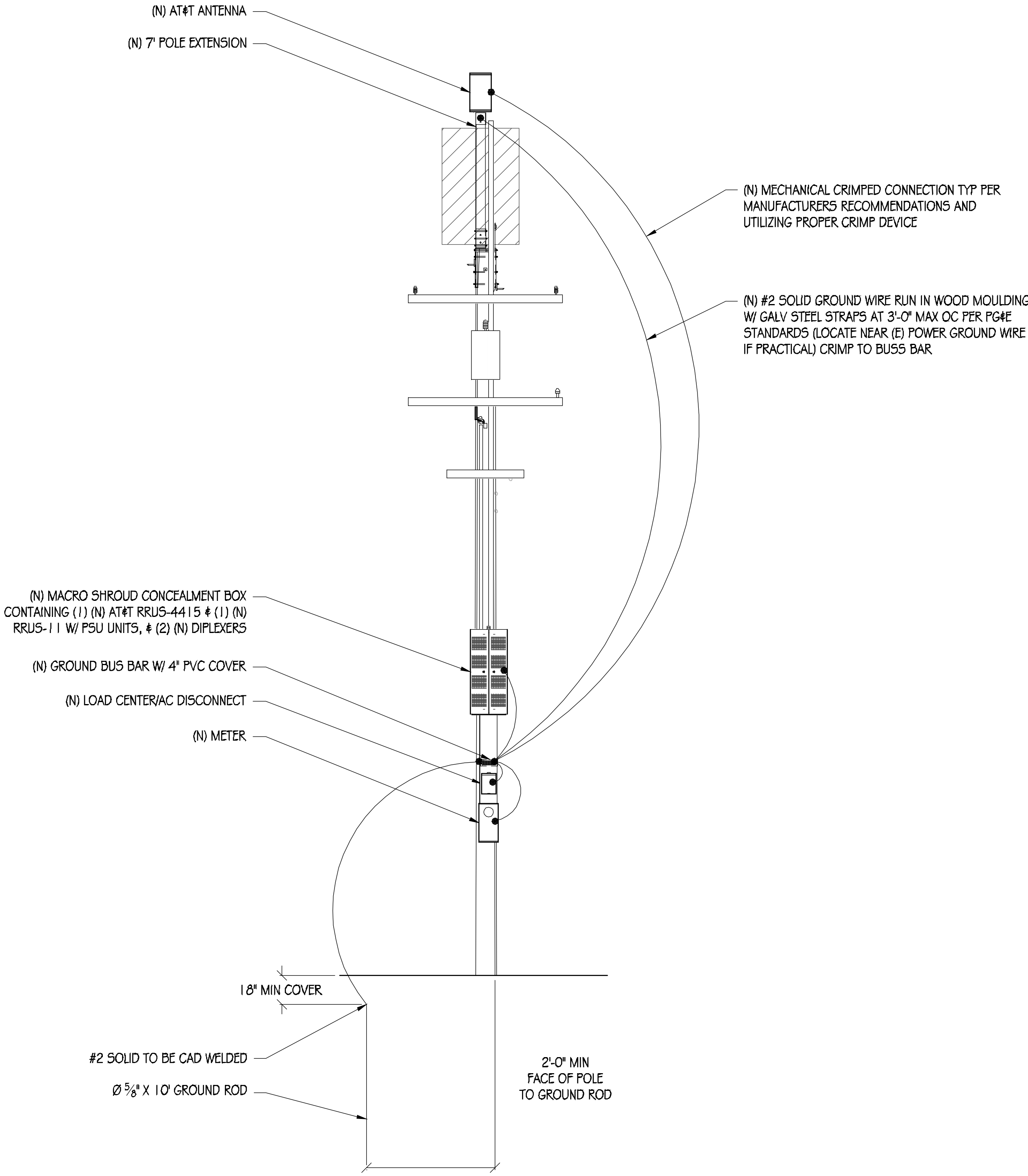
DRAWN BY: B. LONGABAUGH
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:

GROUNDING DIAGRAMS

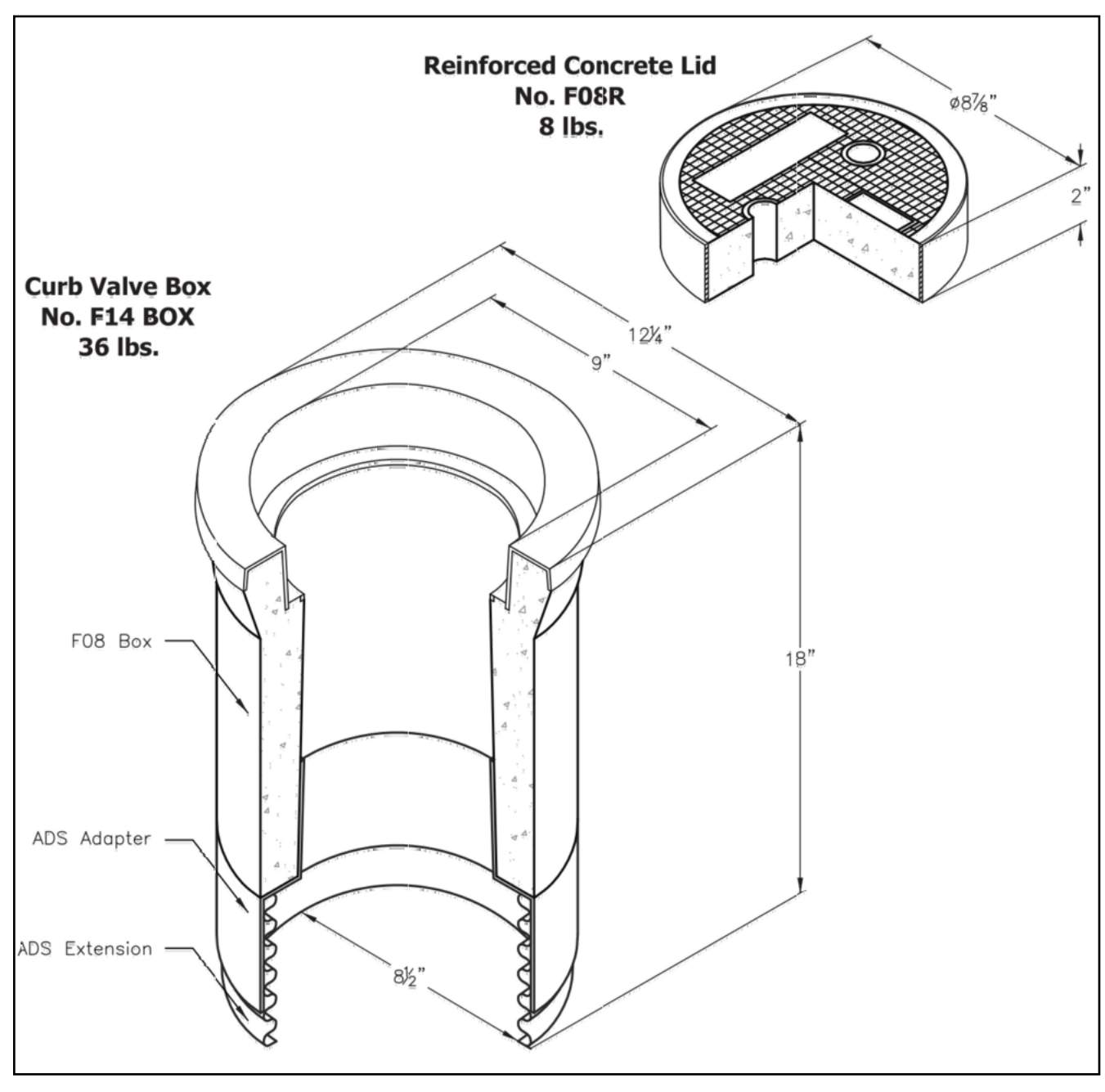
SHEET NUMBER

E-2



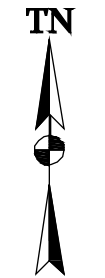
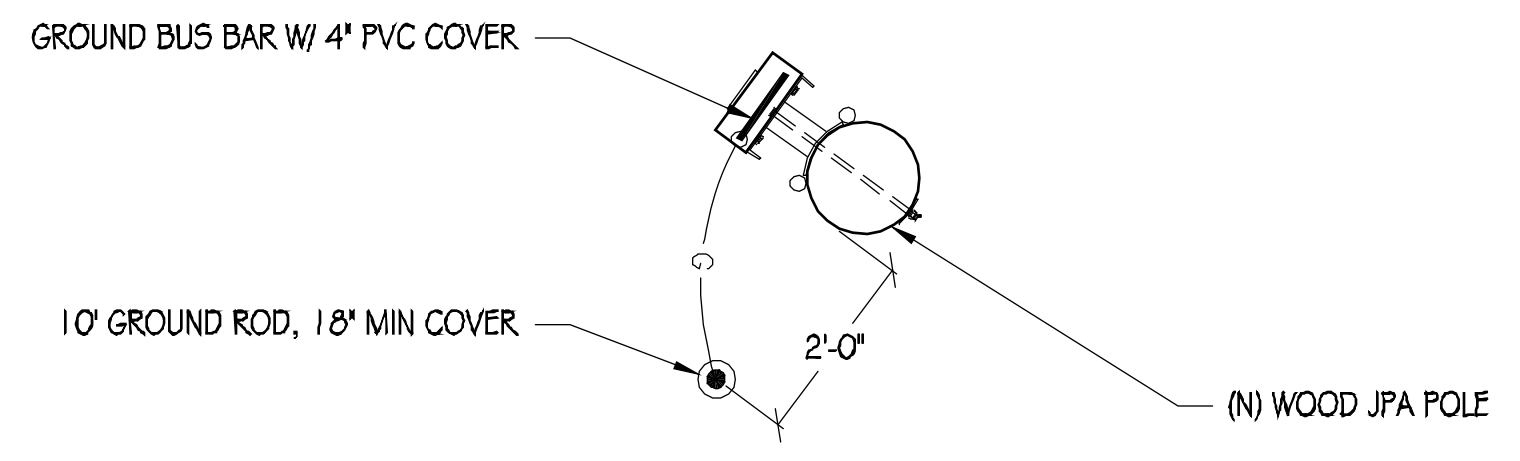
POLE GROUNDING DIAGRAM

NT5



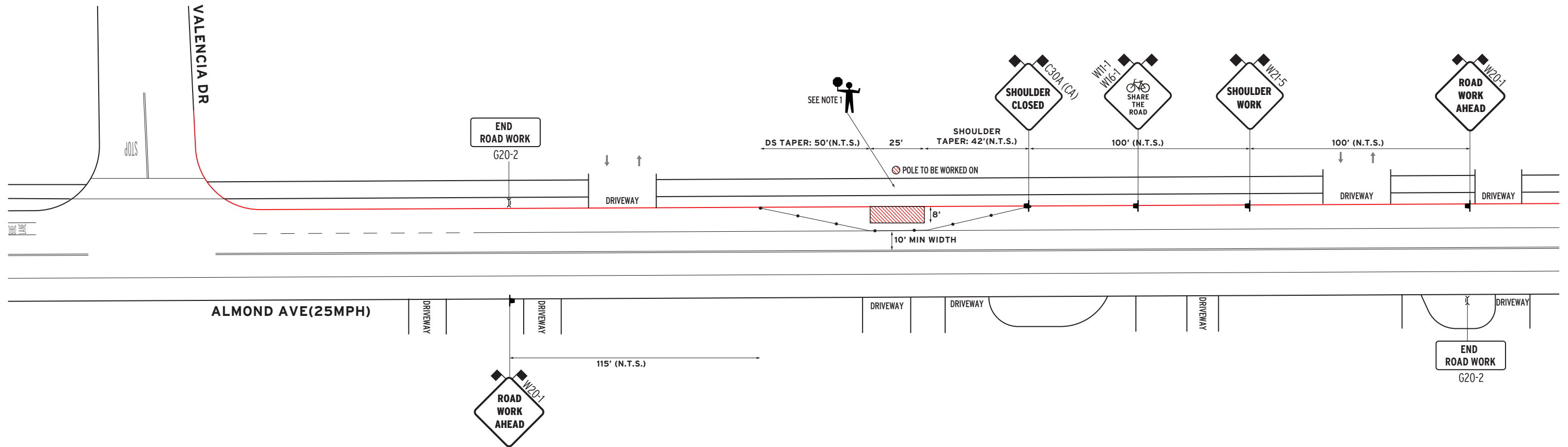
TEST WELL DETAIL

NT5



GROUNDING PLAN

NT5



- LEGEND:**
- CHANNELIZING DEVICE
 - TRAFFIC CONE W/CLIP ON SIGN
 - ▲ SIGN
 - WORK ZONE
 - ↓ DIRECTION OF TRAFFIC
 - ⌵ TYPE 1 BARRICADE
 - ⌵ TYPE 1 BARRICADE W/SIGN
 - ⌵ TYPE 3 BARRICADE
 - ⌵ TYPE 3 BARRICADE W/SIGN
 - ⚠ CERTIFIED FLAGGER
 - ⊗ CRASH BARRELS
 - ▨ MESSAGE BOARD (PCMS)
 - ⚡ FLASHING ARROWBOARD
 - ⊠ TEMP NO PARKING SIGNS
 - ⚡ FLASHING BEACON/BARRICADE LIGHT
 - K-RAIL/WATER FILLED BARRIER
 - PEDESTRIAN BARRICADE

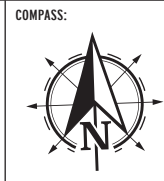
ADDITIONAL NOTES:
 1. FLAGGER/WORKER DEDICATED TO ASSIST PEDESTRIANS ALONG THE WORK ZONE WHEN SAFE TO DO SO DUE TO LIMITED SIDEWALK DETOUR.

- NOTES**
- Traffic control shall conform with the most current CAMUTCD part 6 and/or Caltrans Standards
 - One lane of traffic in each direction and all high volume turning lanes shall be maintained at all times on all streets at a minimum lane width of 10 feet.
 - Contractor shall notify local authorities once signs are posted.
 - All advanced warning signs shall be equipped with 2 (18" orange flags)
 - Certified Traffic Control Workers shall have Type II vests, work shoes, and hard hats.

- Temporary no parking signs shall be placed a min of 72 hrs prior of work.
- Driveways shall be monitored and maintained at all times during work hours.
- Distance between sign and work area will be determined on speed limit.
- Roadway shall not be opened until safe for public use. All open trenches must be plated or backfilled prior to public usage.
- All Devices shall be removed when no longer required.

MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|------------------------------------|------------------------|----------|----------|
| | A | B | C |
| Urban (Low Speed) - 25 mph or less | 100 ft | 100 ft | 100 ft |
| Urban (Low Speed) + 25 to 40 mph | 250 ft | 250 ft | 250 ft |
| Urban (High Speed) + 40 mph | 350 ft | 350 ft | 350 ft |
| Rural | 500 ft | 500 ft | 500 ft |
| Expressway / Freeway | 1,000 ft | 1,500 ft | 2,640 ft |



SCALE:
NOT TO SCALE

PROJECT LOCATION:
**141 ALMOND AVE
 LOS ALTOS**

DATE REQD: **6-18-19**
 DATE COMPLTD: **6-24-19**

REQUEST BY:
**LANCE LEWIS
 SURESITE
 216-593-0400
 484-895-5109
 L.LEWIS@SURE-SITE.COM**

**PHASE 1
 TEMP TRAFFIC CONTROL PLAN**

**AFTER HOURS
 EMERGENCY
 510-299-5666**

44800 Industrial Drive Fremont, CA 94538
 WWW.BATSTRAFFICSOLUTIONS.COM
B.A.T.S. TRAFFIC SOLUTIONS

Drawn By:
 Andie Tonnu
 CSLB# 917034
 Office: 510-657-2543
 Fax: 510-657-2544

CITY OF LOS ALTOS
DISTRIBUTED ANTENNA SYSTEMS FOR WIRELESS COMMUNICATIONS
ENCROACHMENT PERMIT REQUIREMENTS

Distributed, repeater, or microcell antenna wireless communication systems and facilities that are regulated by the California Public Utilities Commission as a public utility and determined to be exempt from Los Altos' zoning regulations and use permit application requirements, shall be allowed in the public right-of-way subject to the following Encroachment Permit requirements:

- A. Antenna systems are encouraged along the city's arterial and collector streets. These facilities are allowed on local streets upon verification by a qualified electrical engineer licensed by the state of California representing the FCC licensee that using local streets is necessary to obtain capacity and coverage.
- B. Antenna systems are permitted on joint utility poles at a height not to exceed 10 feet above the height of joint utility pole. Replacement joint utility poles are allowed in accordance with the Municipal Code; however, no net new joint utility poles or monopole antennas are allowed in the public right-of-way.
- C. Antennae shall be designed to be as visually unobtrusive as possible, such as by housing the antenna in a single radome on top of joint utility pole, or by mounting the antenna directly on the joint utility pole in a streamline manner and painted to match the color of the utility pole.
- D. All antenna systems equipment boxes including switches, computers, cooling, back up power, etc., shall be mounted to the utility pole and both the antenna and utility equipment shall be painted to match the color of the existing utility pole.
- E. Only battery back up power systems shall be allowed. No generators shall be allowed.
- F. All new fiber optic and metal cables shall be installed underground unless there are existing overhead cables that can be collocated.
- G. Radiofrequency reports shall be provided for the facility's maximum planned operating power pursuant to the underlying FCC license.
- H. Provide a build-out plan that to the extent known at the time of application identifying by physical address (or if none, by geographic description) all other sites, regardless of whether now constructed, proposed, or anticipated, which are under contract at the time of application, subject to contractual provisions related to confidentiality, that are to be interconnected with this project site. Disclose in technical detail the proposed method of interconnection. Confidential sites may be identified generally.
- I. Disclose by licensee call sign all build-out requirements/obligations which have yet to be met of all wireless providers that the applicant is under contract to build in the City of Los Altos, and the known or estimated date when the remaining build-out requirements will be met.
- J. Identify by name, title, company affiliation, work address, telephone number and extension, and email address the key person or persons most knowledgeable regarding this Project so that the City may contact them with questions regarding the Project:

ENCROACHMENT PERMIT APPLICATION

The applicant is hereby given temporary permission to construct and maintain wireless communication systems at 147 Almond Ave, as shown on the attached drawings. This permission shall cease at such time as the City Engineer determines that said improvements or the applicant's use thereof is detrimental to the City.

The above permission is given subject to the following conditions:

1. The applicant, their heirs, executors, administrators, successors, and assigns, agree to indemnify and hold harmless the City of Los Altos, its officers, and employees against all claims, liabilities, and losses arising out of construction, existence, and future abandonment/destruction of the subject wireless communication systems and all other associated appurtenances. In addition, the applicant shall be responsible for the repair of all damage to roadways, sidewalks, curb and gutter, sewer mains and laterals, traffic signals and conduits, street lights and conduits, irrigation systems including controllers and conduits, or landscaping resulting from the construction/abandonment of the work proposed to be completed under the conditions of this permit, and shall be responsible for repairing or replacing such damaged areas.
2. Construction and destruction/abandonment of the work may be done on weekdays or Saturdays. Weekday work shall be limited to the hours of 8:00 AM and 6:00 PM., except as noted in the lane closure restrictions described in Item 3. Saturday work shall be performed during the hours of 9:00 AM and 6:00 PM.
3. Traffic control and adequate protection of the public in the vicinity of the work site shall be the responsibility of the applicant. Lane closures shall conform to the requirements established in the State of California Traffic Manual, and the State Standard Plans and Specifications.
4. The applicant shall notify the three closest adjacent property owners to the installation and the three closest property owners directly across the street from the installation at least 10 days prior to commencement of any work. In addition, the applicant shall notify the City Communications Department at (650) 948-8223 of street/alley and lane closures at least 24 hours prior to any work. Furthermore, the contractor shall notify the city's Traffic Engineer at least 48 hours in advance of any excavations within 100 feet of any traffic signals.
5. Contractor shall positively locate by hand digging all traffic signal conduit and irrigation controller conduit adjacent to traffic signals. Any damage repair to signal equipment or irrigation controller equipment shall be completed by a qualified electrical contractor immediately at the contractor's expense, and before proceeding with any other work. Traffic signal detector loop replacement shall be replaced within 48 hours of being damaged. The contractor is encouraged to use the City's signal maintenance contractor, Bear Electric, for any traffic signal repair work at the contractor's expense.
6. Asphalt concrete section for trench backfill shall be a thickness equal to the existing pavement, or 4-inches thick minimum, whichever is greater.

7. Completed Certificates of Insurance naming the City of Los Altos, its elective and appointed boards, officers, agents and employees as additional insured must be completed and submitted to the City by the owner, prior to beginning any work in the public right of way. Insurance shall remain in force during the entire time that the public right-of-way facilities are in use and shall provide the above certificate to the City on an annual basis.
8. The applicant shall comply with the National Pollutant Discharge Elimination System Permit in effect at the time of the application, and shall continue to comply with the Permit as amended by the State Water Board from time to time.
9. The applicant understands that the City continues to pursue future utility undergrounding. In the event a pole or poles used by the applicant are selected for undergrounding or relocation of mounted utilities, the applicant will be required to remove all equipment placed on the pole at his/her expense. The applicant agrees that the City is not obligated to provide alternate space for applicant's use should removal of a facility be directed to accomplish utility undergrounding.
10. The applicant shall maintain the distributed antenna system in good repair at the discretion of the City Engineer.
11. The applicant shall remove the entire distributed antenna system structures within 90 days when such system is abandoned.

I hereby agree to the terms of this Encroachment Permit:

Laura Meiners, Site Dev Agent
Name/Title

Sure Site Consulting
Company

Laura Meiners
Signature

7-30-19
Date

CERTIFIED NOTIFICATION LIST AFFIDAVIT

**CITY OF LOS ALTOS
STATE OF CALIFORNIA
COUNTY OF SANTA CLARA**

I, Robert Castro, hereby certify that the attached list contains the names and addresses of all persons to whom all property is assessed as they appear on the latest available assessment roll of the County within the area described on the attached notice and for a distance of two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, further certify that the attached list of occupants reflect all residential addresses within two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, certify under penalty of perjury that the foregoing is true and correct.

Robert Castro

Signature

June 21, 2019

Date the notices were mailed out

Location:

Public right of way near 141 Almond Avenue

37.3850700, -122.1101900

CRAN_RSFR_LOSA0_01

1 170-23-010
JOHN T & NANCY N SEEMAN
201 VALENCIA DR
LOS ALTOS CA 94022

2 170-23-011
RONALD C & MARY L CARRIE
211 VALENCIA DR
LOS ALTOS CA 94022

3 170-24-005
SEVGI Z GURBUZ
2714 TRELIS OAKS DR
MARIETTA GA 30060

3 170-24-005
OCCUPANT
154 ALMOND AVE
LOS ALTOS CA 94022

4 170-24-006
MATTHEW K & NATASHA STIRRUP
170 ALMOND AVE
LOS ALTOS CA 94022

5 170-24-007
KENNETH J & BARBARA CARROLL
184 ALMOND AVE
LOS ALTOS CA 94022

6 170-24-008
HAROLD T BLACK
200 ALMOND AVE
LOS ALTOS CA 94022

7 170-24-009
MIN ZHU
780 ROSEWOOD DR
PALO ALTO CA 94303

7 170-24-009
OCCUPANT
216 ALMOND AVE
LOS ALTOS CA 94022

8 170-24-019
JEFFERY & LUCY DONOVAN
201 MERRITT RD
LOS ALTOS CA 94022

9 170-24-020
DAVID C MCINTYRE
185 MERRITT RD
LOS ALTOS CA 94022

10 170-24-021
KWAI LEUNG LAU
171 MERRITT RD
LOS ALTOS CA 94022

11 170-24-022
MORITZ & ROSEMARIE BRANGER
155 MERRITT RD
LOS ALTOS CA 94022

12 170-24-053
KEVIN & MAKIKO BARRETT
128 ALMOND AVE
LOS ALTOS CA 94022

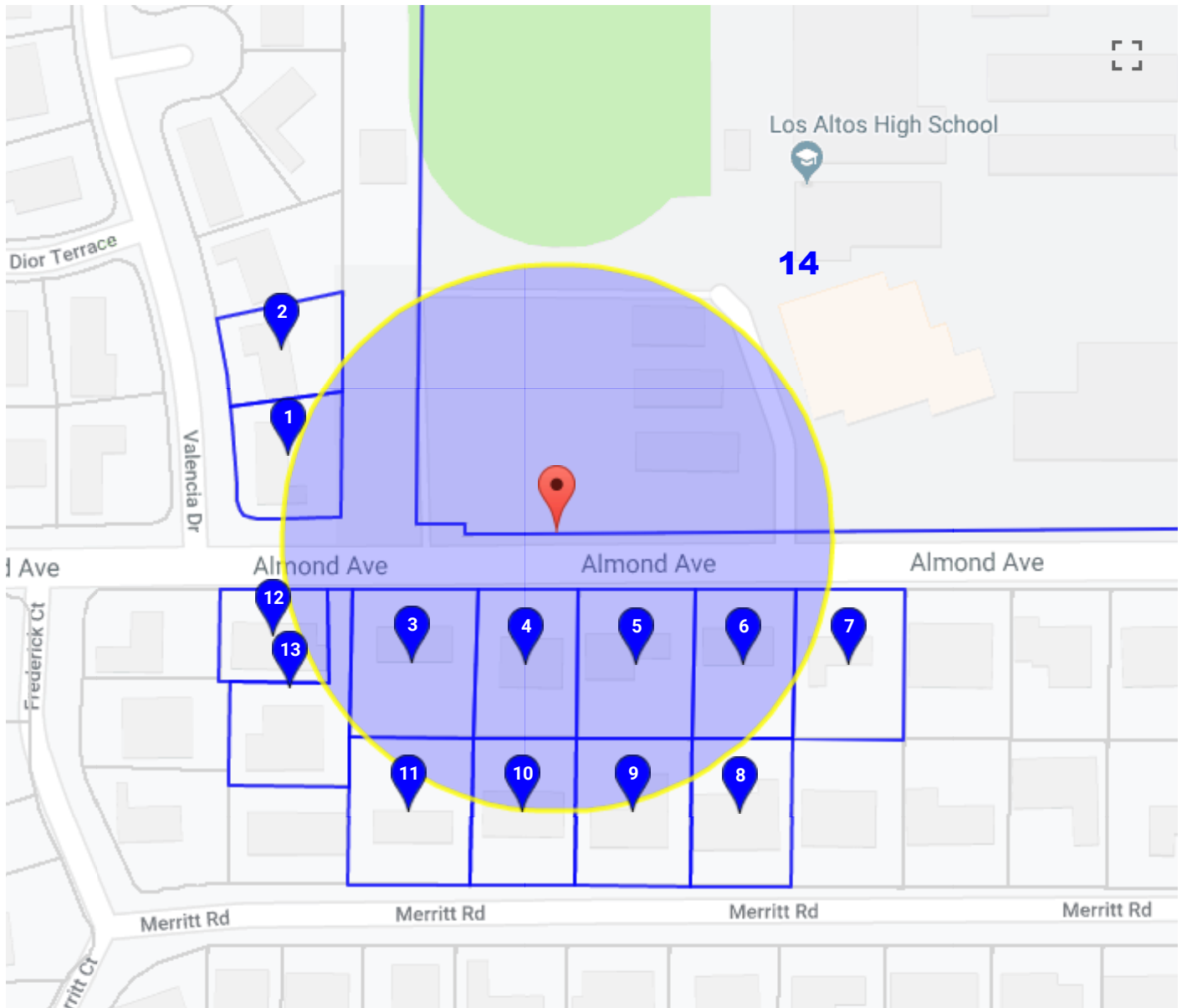
13 170-24-057
RUEY-LIN & JENNIFER Y LU
136 ALMOND AVE
LOS ALTOS CA 94022

14 170-60-001
MT VIEW UNION H S D
201 ALMOND AVE
LOS ALTOS CA 94022

IVAN TOEWS
SURESITE CONSULTING
2033 GATEWAY PL 6TH FLR
SAN JOSE CA 95110

CHRIS ELDRIDGE
ERICSSON
6140 STONERIDGE MALL ROAD SUITE 350
PLEASANTON CA 94588

CHRIS KERR
AT&T MOBILITY
5001 EXECUTIVE PARKWAY 4W750EE
SAN RAMON CA 94568





AT&T is working to improve wireless service in City of Los Altos!

May 30, 2019

Dear Neighbor,

AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 141 ALMOND AVENUE. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and one (1) emergency power shut off. This equipment is designed to increase capacity in high demand areas and should increase wireless connection reliability for AT&T customers. See attached schematic for more information about the placement and size of equipment currently proposed to be installed. All equipment will be painted to match the pole.

This proposed small cell node is part of a greater network that will provide and enhance current cutting edge and future AT&T wireless voice and data service to the surrounding area, improving wireless capabilities and public safety connectivity. Although experiences with wireless services vary based on specific location and usage times, the wireless service proposed by this facility will help meet existing, fluctuating and future demands.

Map of Pole Location





Photo of Existing Pole



Want to learn more?

Please contact AT&T's small cell project voice mailbox at 949-247-8686 or email escsd@sure-site.com should you have any comments or questions about the proposal.

Thank you.

Sincerely,

Angela Kung
AT&T Director - External Affairs



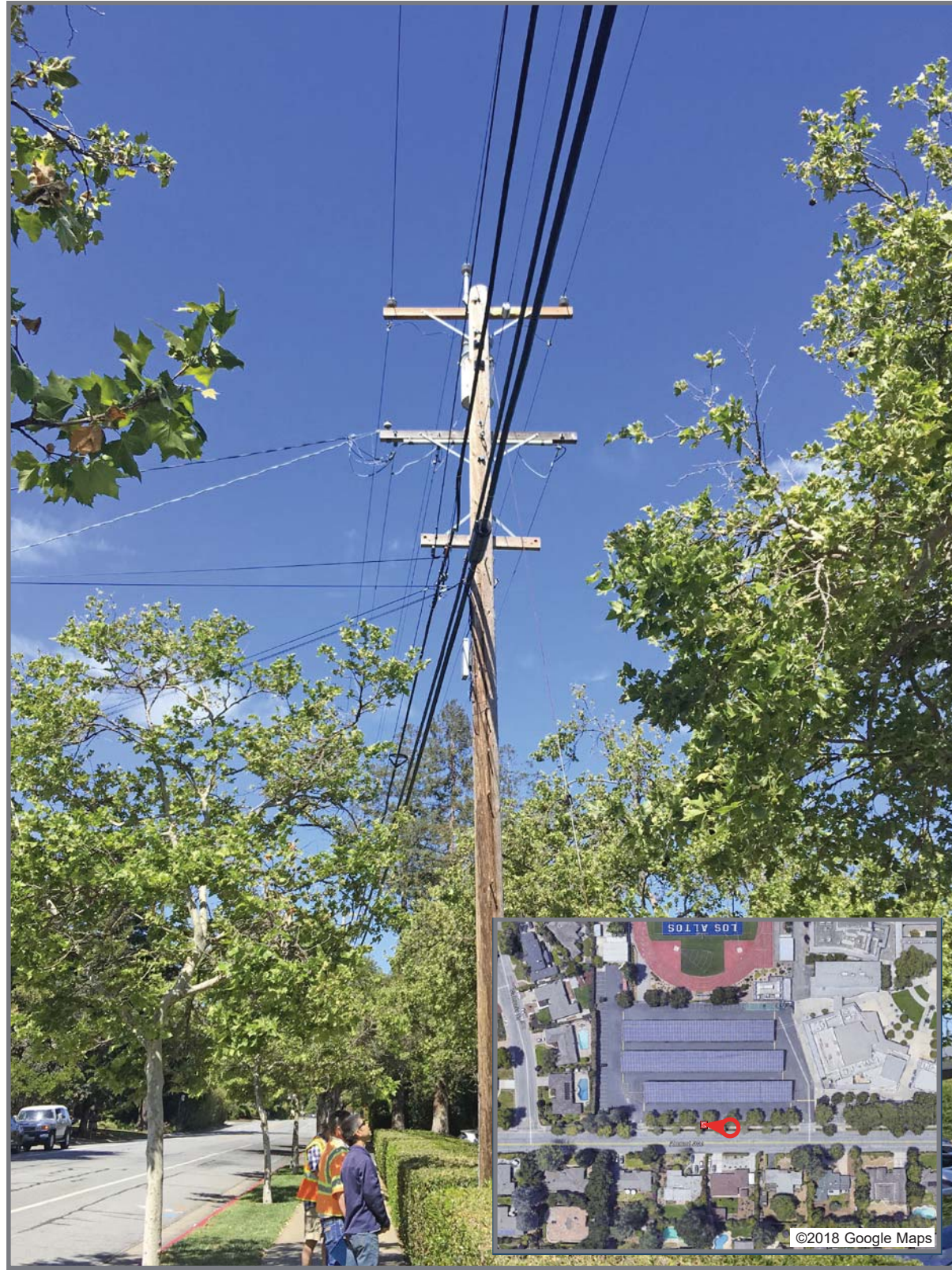
at&t

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141 ALMOND AVENUE LOS ALTOS CA 94022



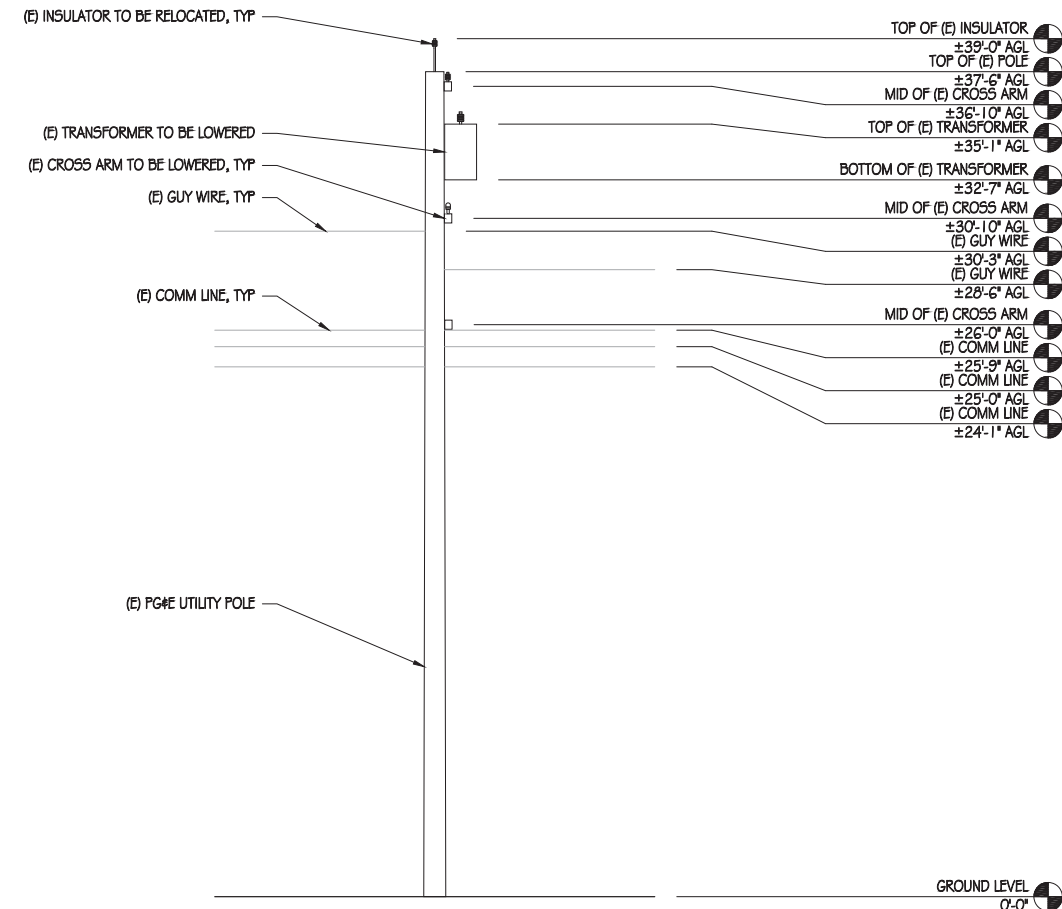
VIEW 1



EXISTING

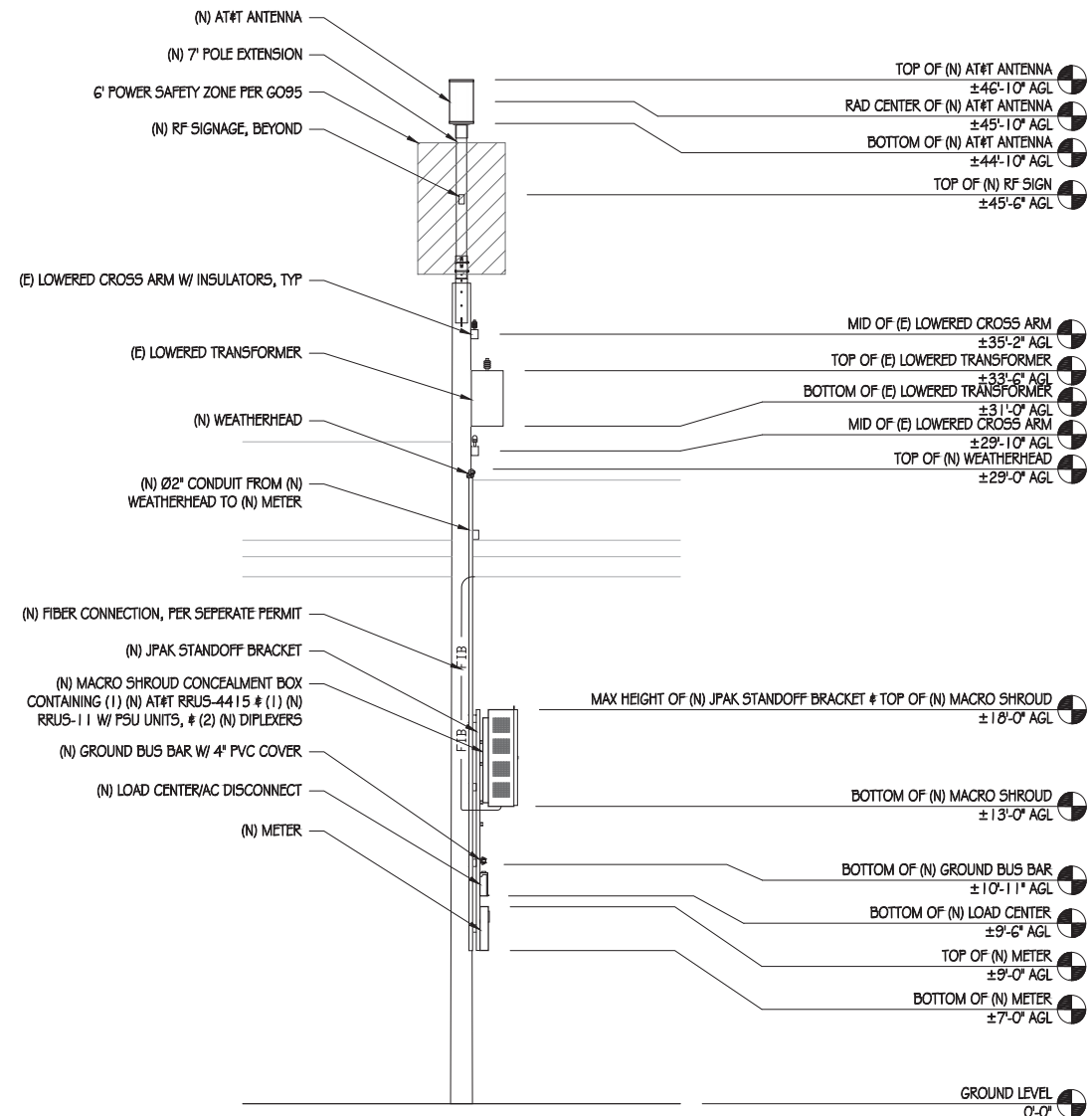


PROPOSED LOOKING WEST ALONG ALMOND AVENUE



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94593



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdind.com
11708 Alwood Rd., Suite 20 Auburn, CA 95603

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CRAN_RSFR_LOSAO_01

ROW ADJCT TO 141 ALMOND AVE
LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/14/18 | CD 90% |
| | 10/31/18 | CD 100% |

DRAWN BY: B. LONGBAUGH

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

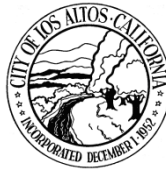
DATE: 10/31/18

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-3



Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

ENCROACHMENT PERMIT No. E19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed plan/drawing showing the proposed work):

LOCATION OF WORK: 687 Linden Ave

TYPE OF WORK: Install equipment on existing utility pole

CONTRACTOR: Ericsson, Delbert Butcher **PHONE #** 720-317-7282

OWNER: PG&E, Jwo Cheng **PHONE #** 650-515-9842

APPLICANT: AT&T Mobility (New Cingular Wireless PCS),
Ivan Toews, SureSite Consulting, Agent **PHONE #** 949-278-2962

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any work in the traveled way section of a street.
- Applicant to construct Driveway/Walkway approach to the back of the existing rolled curb, without tying to the existing curb (cold joint).
- All work done in the City ROW shall comply with the City's Shoulder Paving Policy.
- Applicant shall provide adequate drainage with 3' wide AC swale (minimum of 4" AB plus 2" AC or 4" AC on compacted subbase is required) and conforms to existing street drainage.
- Contractor will be required to saw cut along the existing road pavement due to severe damaged edge.
- New sidewalk or curb shall be constructed per City Standards and connected to existing sidewalk or curb with #4, 16" long dowels @ 12" o.c. All saw cuts to be done at existing joints.
- Comments: _____

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ **DATE:** _____

ISSUED BY: _____ **DATE:** _____

SIGNATURE

INSPECTED BY: _____ **FINAL INSPECTION DATE:** _____

ATTACHMENT:

YES _____ **\$196.00** CREDIT CHECK CASH

NO _____

Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant and Finance

PERMIT VALID FOR 60 DAYS
 (See other side for General Requirements)

GENERAL REQUIREMENTS FOR ALL JOBS

- A. To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B. Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C. The City may require modifications to this permit as needed because of special field conditions.
- D. **NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E. This permit does not authorize excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F. This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G. This permit is valid for **sixty (60) days** from the approval date unless otherwise noted.
- H. Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- I. Use of a Flashing Arrow Panel is **MANDATORY** when work location is within a 35 MPH speed zone.
- J. Traffic conditions and adequate protection of the public in the vicinity of the job site shall be the responsibility of the applicant. During construction activities, two-way traffic shall be maintained. A minimum of one traffic lane shall be kept passable and under the control of competent flag persons. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable.
- K. Any damage to painted street pavement delineations, markings or reflectors and painted curbs shall be restored as approved by the Engineer.
- L. Excavations within the asphalt street section shall be backfilled before leaving the work for the night, unless otherwise authorized by the City's representative. Temporary surfacing shall be placed on the trench surface overnight.
- M. All trench backfill requires certified compaction test to 95% density or greater for each lift (Maximum lift of 12") or use Controlled Density Fill (CDF) as approved.
- N. All work shall be performed in accordance with the latest issue of Cal O.S.H.A. Safety Orders. The City has not checked trench safety and trench safety is not implied with this permit.
- O. Landscaping is **NOT** to be disturbed any more than absolutely necessary. Restoration shall be to property owner's satisfaction.
- P. Drainage patterns during construction shall be maintained to insure that surface drainage is properly managed and surrounding areas are protected from damage. Restoration must be to grades necessary to maintain original condition and maintain proper drainage flow lines.

Q. Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

R. All saw cut sludge/slurry should be immediately removed by means of a vacuum system.

EXHIBIT B INSURANCE

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022

Minimum Scope of Insurance

Coverage shall be *at least as broad as*:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.

3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.

4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability

insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.

6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*

9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

TEMPORARY LANE CLOSURE PERMIT LC19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed drawing showing the proposed location(s)):

LOCATION: 687 Linden Ave
 TYPE OF WORK: Install equipment on existing utility pole
 DATE(S) REQUESTED: 3/21/2019
 CONTRACTOR: Ericsson, Delbert Butcher PHONE # 720-317-7282
 OWNER: PG&E, Jwo Cheng PHONE # 650-515-9842
 APPLICANT: AT&T Mobility (New Cingular Wireless PCS), PHONE # 949-278-2962
Ivan Toews, SureSite Consulting, Agent

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any lane or road closure.
- Comments:**

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ DATE: _____

ISSUED BY: _____ DATE: _____

SIGNATURE

INSPECTED BY: _____ FINAL INSPECTION DATE: _____

| | |
|---|------------------|
| APPLICATION FEE (includes the first day): | \$ 505.00 |
| 0 additional days at \$62/day: | \$ - |
| TOTAL FEES: | \$ 505.00 |

ATTACHMENT:

YES Traffic Control Plan CREDIT CHECK CASH
 NO _____ Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant, Police Department, and Finance

PERMIT VALID FOR _____ DAYS
 See other side for General Requirements

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize any excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- H.** Use of a Flashing Arrow Panel is MANDATORY when work location is within a 35 MPH speed zone.
- I.** Traffic conditions and adequate protection of the public in the vicinity of the stall(s) shall be the responsibility of the applicant. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable
- J.** Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

**EXHIBIT B
INSURANCE**

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022
Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

CONSULTANT shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: **Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022**

Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.
4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.
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Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Radio Frequency Emissions Compliance Report For AT&T Mobility

| | |
|--|--|
| Site Name: CRAN_RSFR_LOSA0_02 | Site Structure Type: Utility Pole |
| Address: 687 Linden Avenue Los Altos, California | Latitude: 37.393803 |
| Report Date: October 26, 2018 | Longitude: -122.119236 |
| | Project: New Build |

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN_RSFR_LOSA0_02 site located at 687 Linden Avenue, Los Altos, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure (“MPE”) limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

| Frequency (MHz) | <i>Limits for General Population/ Uncontrolled Exposure</i> | | <i>Limits for Occupational/ Controlled Exposure</i> | |
|-----------------|---|--------------------------|---|--------------------------|
| | Power Density (mW/cm ²) | Averaging Time (minutes) | Power Density (mW/cm ²) | Averaging Time (minutes) |
| 30-300 | 0.2 | 30 | 1 | 6 |
| 300-1500 | f/1500 | 30 | f/300 | 6 |
| 1500-100,000 | 1.0 | 30 | 5.0 | 6 |

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install 1 KMW FX-OM2L1OH2 Cylindrical Antenna
- Install 1 4415 Radio
- Install 1 RRUS-11 Radio

The antenna will be mounted on a 38.5-foot Utility Pole with a centerline 47.3 feet above ground level. The antenna is quasi-omnidirectional and will radiate in all directions. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 987 Watts. Other appurtenances such as GPS antennas, RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700 and 1900 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The quasi-omnidirectional antenna to be employed at this site is operating at relatively low power and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antenna. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.3790% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 1.0395% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

For areas on the pole that are predicted to exceed the General Population limits, Waterford Consultants, LLC recommends that AT&T Mobility post an RF alerting sign (Caution) on the pole 42 feet above ground level to be visible upon approach by authorized personnel to provide notification of potential conditions above this level. This recommendation is depicted in Figure 2. Any work activity in front of transmitting antennas should be coordinated with AT&T Mobility.

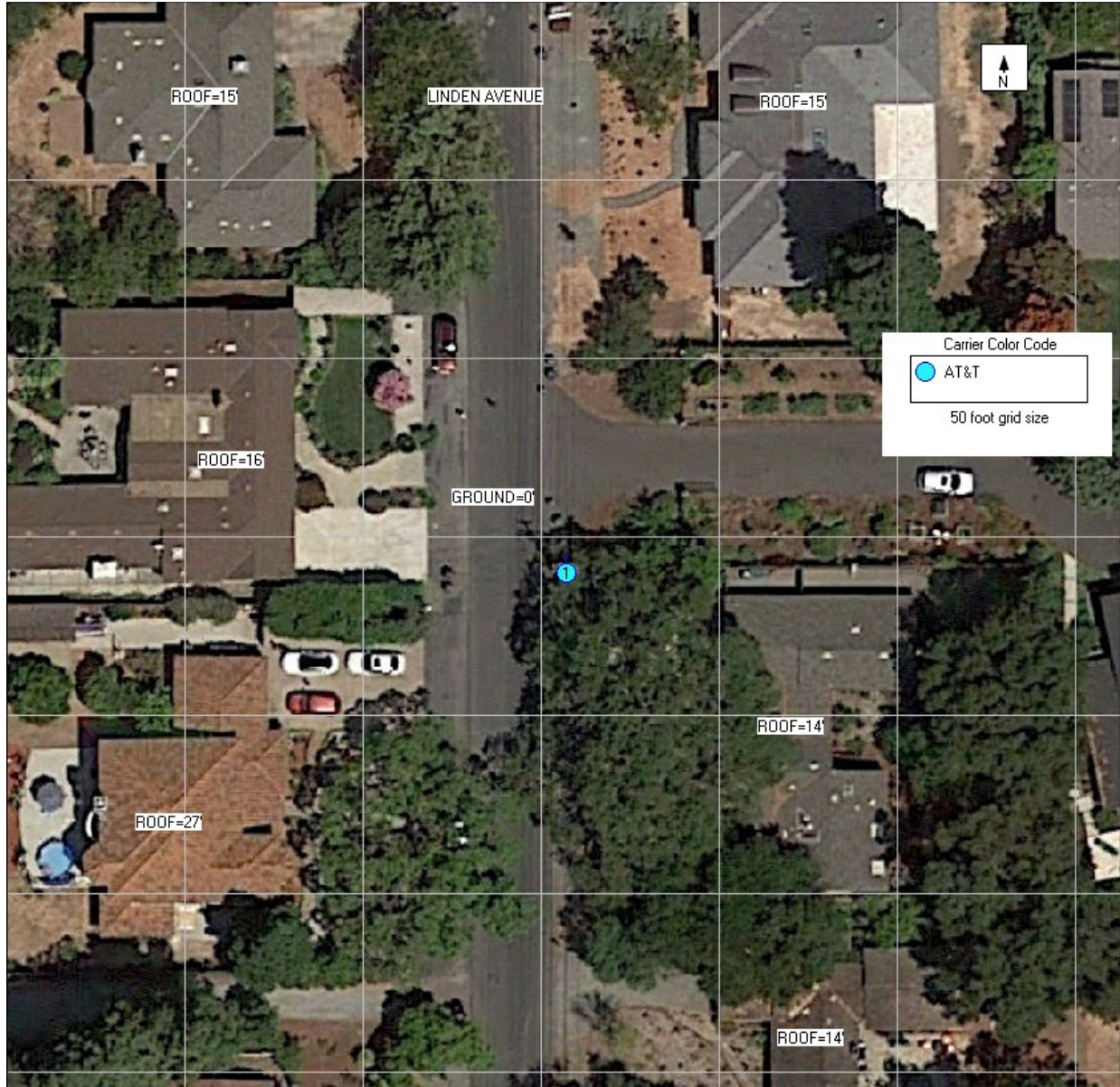


Figure 1: Antenna Locations

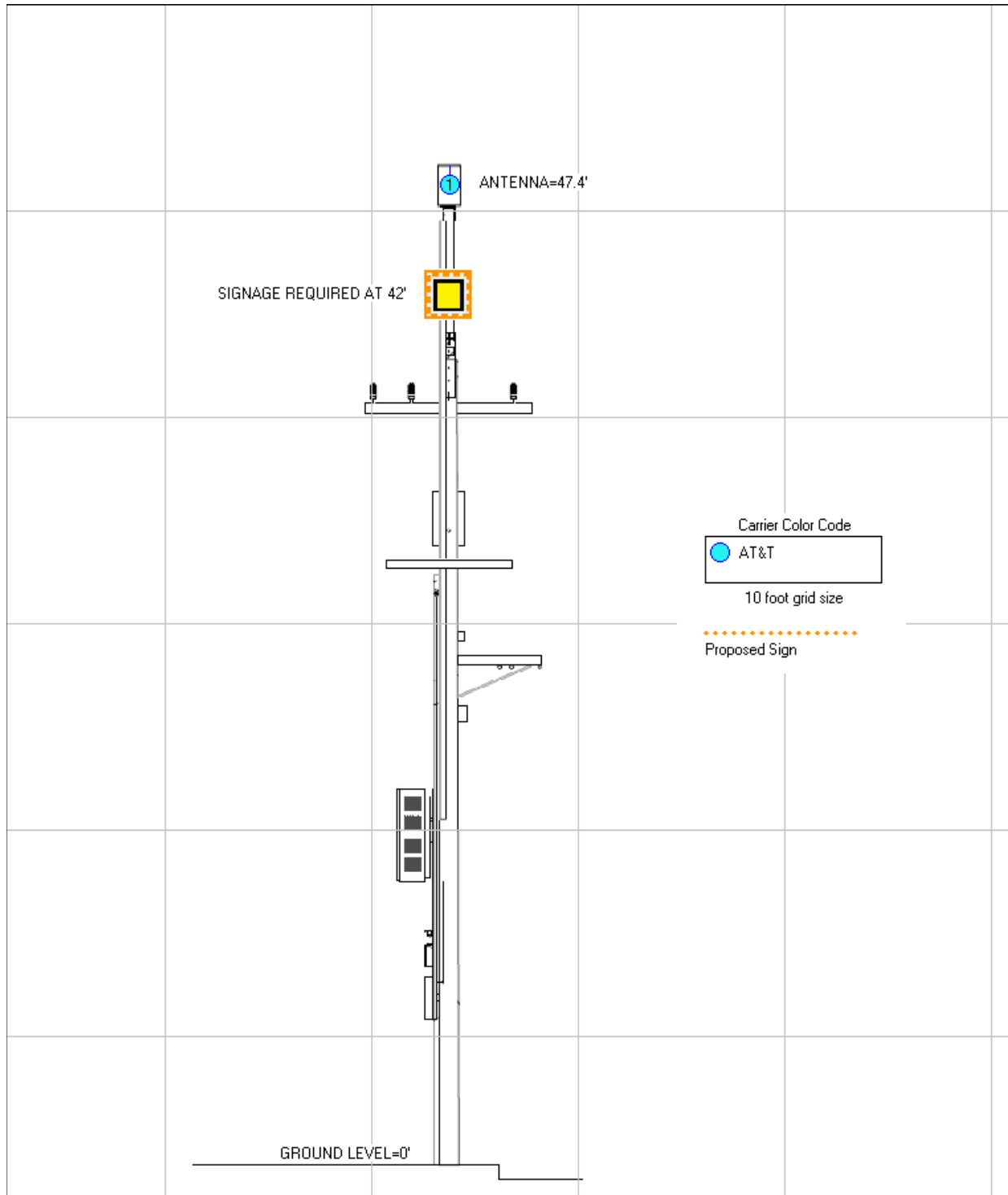


Figure 2: Mitigation Recommendations

■ Caution

Compliance Statement

Based on information provided by AT&T Mobility, predictive modeling and the mitigation action to be implemented by AT&T Mobility, the installation proposed by AT&T Mobility at 687 Linden Avenue, Los Altos, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to these areas to authorized personnel that have completed RF safety training is required for Occupational environment compliance.

Certification

I, David H. Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.





October 26, 2018

Suresite for AT&T
36 Executive Park, Suite 210
Irvine, CA 92614

Subj: CRAN_RSFR_LOSA0_002

We have analyzed the wood pole at ROW adjacent to 687 Linden Avenue, Los Altos, CA 94022 (37.39376944, -122.11916667) using O-Calc Pro 5.03 Utility Pole software.

Data for the wood pole was obtained from a previous site walk and photographs on May 23, 2018, as well as Google Earth images. Proposed equipment is provided by our client. Based on our analysis the pole with proposed loading is at 80.2% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

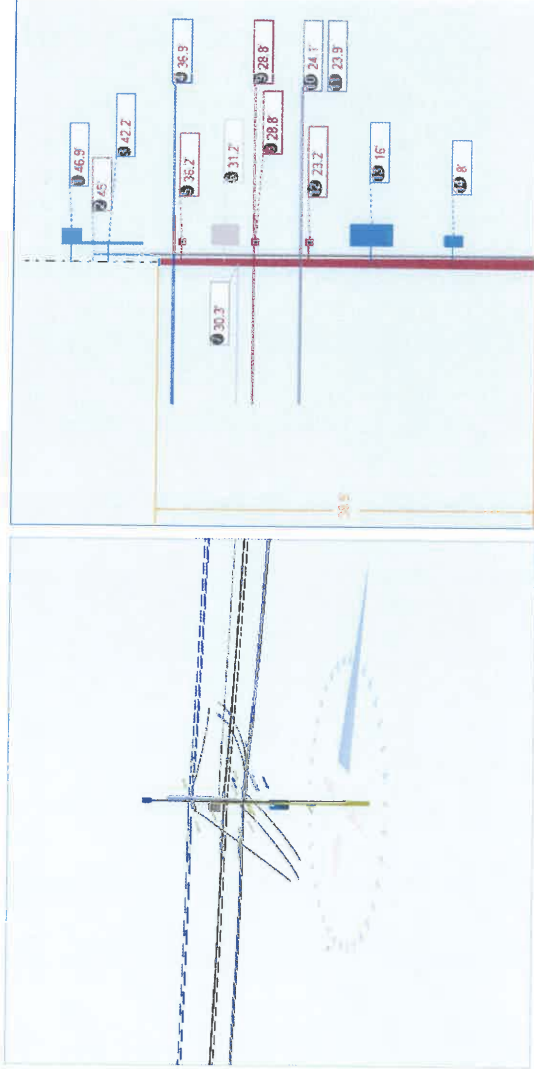
Bret McComb, P.E.



Attachments:

1. O-Calc Output: 5 pages
2. Pole Size Chart: 1 page

| | | | | | | | | | |
|------------|--------------------|-------------------------|-------------|-------------------|-------------|----------------------|-------|-----------------------|------------|
| Pole Num: | CRAN_RSFR_LOSA0_02 | Pole Length / Class: | 45 / 4 | Code: | GO 95 | Structure Type: | | Junction | |
| Aux Data 1 | Unset | Species: | DOUGLAS FIR | NESC Rule: | 6.50 | Construction Grade: | | Guy Wires Adequate | |
| Aux Data 2 | Unset | Setting Depth (ft): | 34.82 | Loading District: | 8,000 | Ice Thickness (in): | 3,865 | Pole Strength Factor: | 0.50 |
| Aux Data 3 | Unset | G/L Circumference (in): | 3,865 | Wind Speed (mph): | No | Wind Pressure (psf): | 8.00 | Transverse Wind LF: | 1.00 |
| Aux Data 4 | Unset | G/L Fiber Stress (psi): | 37.393769 | Deg | -122.119167 | Elevation: | | Wire Tension LF: | 1.00 |
| Aux Data 5 | Unset | Allowable Stress (psi): | | Longitude: | | | | Vertical LF: | 1.00 |
| Aux Data 6 | Unset | Fiber Stress Ht. Reduc: | | | | | | | |
| Latitude: | | | | | | | | | 114.7 Feet |



| Pole Capacity Utilization (%) | Height (ft) | Wind Angle (deg) |
|-------------------------------|-------------|------------------|
| Crossarm allowance 300 lbs | | |
| Maximum | 80.2 | 273.4 |
| Groundline | 80.2 | 273.4 |
| Vertical | 3.0 | 180.0 |

| Pole Moments (ft-lb) | Load Angle (deg) | Wind Angle (deg) |
|----------------------------|------------------|------------------|
| Crossarm allowance 300 lbs | | |
| Max Cap Util | 34,246 | 270.8 |
| Groundline | 34,246 | 270.8 |
| GL Allowable | 43,059 | 273.4 |

| Guy System Component Summary | | | Load From Worst Wind Angle on Pole | | Individual Maximum Load | |
|------------------------------|------------------|------------------|------------------------------------|------------------|-------------------------|------------------|
| Description | Lead Length (ft) | Lead Angle (deg) | Nominal Capacity (%) | Wind Angle (deg) | Max Load Capacity (%) | Wind Angle (deg) |
| ▶ Anchor | 175.0 | 0.0 | 0.0 | 273.4 | 3.7 | 170.0 |
| • EHS 3/8 (Span/Head) | | | 0.0 | 273.4 | 4.8 | 170.0 |
| System Capacity Summary: | | | Adequate | | Adequate | |

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 270.8°

| | Shear Load* (lbs) | Applied Load (%) | Bending Moment (ft-lb) | Applied Moment (%) | Pole Capacity (%) | Bending Stress (+/- psi) | Vertical Load (lbs) | Vertical Stress (psi) | Total Stress (psi) | Pole Capacity (%) |
|-----------------------|-------------------|------------------|------------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|--------------------|-------------------|
| Powers | 342 | 26.8 | 11,258 | 32.9 | 26.2 | 987 | 106 | 1 | 988 | 25.6 |
| Comms | 383 | 30.1 | 10,260 | 30.0 | 23.8 | 900 | 576 | 6 | 905 | 23.4 |
| GuyBraces | 22 | 1.7 | 679 | 2.0 | 1.6 | 60 | 24 | 0 | 60 | 1.5 |
| GenericEquipments | 169 | 13.3 | 3,363 | 9.8 | 7.8 | 295 | 213 | 2 | 297 | 7.7 |
| PowerEquipments | 42 | 3.3 | 1,318 | 3.9 | 3.1 | 116 | 335 | 3 | 119 | 3.1 |
| Pole | 228 | 17.9 | 4,496 | 13.1 | 10.4 | 394 | 1,015 | 11 | 405 | 10.5 |
| Crossarms | 4 | 0.3 | 211 | 0.6 | 0.5 | 19 | 126 | 1 | 20 | 0.5 |
| Risers | 67 | 5.3 | 2,049 | 6.0 | 4.8 | 180 | 45 | 0 | 180 | 4.7 |
| Insulators | 18 | 1.4 | 610 | 1.8 | 1.4 | 54 | 84 | 1 | 54 | 1.4 |
| Pole Load | 1,275 | 100.0 | 34,246 | 100.0 | 79.5 | 3,002 | 2,523 | 26 | 3,028 | 78.3 |
| Pole Reserve Capacity | | | 8,813 | | 20.5 | 863 | | | 837 | 21.7 |

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 270.8°

| | Shear Load* (lbs) | Applied Load (%) | Bending Moment (ft-lb) | Applied Moment (%) | Pole Capacity (%) | Bending Stress (+/- psi) | Vertical Load (lbs) | Vertical Stress (psi) | Total Stress (psi) | Pole Capacity (%) |
|----------------|-------------------|------------------|------------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|--------------------|-------------------|
| <Undefined> | 1,047 | 82.1 | 29,750 | 86.9 | 69.1 | 2,608 | 1,508 | 16 | 2,624 | 67.9 |
| Pole | 228 | 17.9 | 4,496 | 13.1 | 10.4 | 394 | 1,015 | 11 | 405 | 10.5 |
| Totals: | 1,275 | 100.0 | 34,246 | 100.0 | 79.5 | 3,002 | 2,523 | 26 | 3,028 | 78.3 |

Detailed Load Components:

| Power | Owner | Height (ft) | Horiz. Offset (in) | Cable Diameter (in) | Sag at Max Temp (ft) | Cable Weight (lbs/ft) | Lead/Span Length (ft) | Span Angle (deg) | Wire Length (ft) | Tension (lbs) | Tension Moment* (ft-lb) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|---------|----------------------------|-------------|--------------------|---------------------|----------------------|-----------------------|-----------------------|------------------|------------------|---------------|-------------------------|------------------------|----------------------|-----------------------|
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 36.85 | 40.34 | 0.4140 | 2.07 | 0.125 | 185.0 | 180.0 | 185.0 | 753 | -388 | 38 | 940 | 590 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 36.85 | 40.34 | 0.4140 | 1.92 | 0.125 | 175.0 | 0.0 | 175.0 | 753 | 388 | 36 | 889 | 1,313 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 36.85 | 40.34 | 0.4140 | 2.07 | 0.125 | 185.0 | 180.0 | 185.0 | 753 | -388 | -39 | 940 | 513 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 36.85 | 40.34 | 0.4140 | 1.92 | 0.125 | 175.0 | 0.0 | 175.0 | 753 | 388 | -36 | 889 | 1,240 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 36.85 | 22.61 | 0.4140 | 1.92 | 0.125 | 175.0 | 0.0 | 175.0 | 753 | 388 | -20 | 889 | 1,256 |
| Primary | AAC 2/0 AWG 7 STRAND ASTER | 36.85 | 22.61 | 0.4140 | 2.07 | 0.125 | 185.0 | 180.0 | 185.0 | 753 | -388 | -21 | 940 | 531 |

| | Secondary | Secondary | Secondary | Secondary | Secondary | Secondary |
|-------------------------|--------------|--------------|---------------|---------------|--------------|--------------|
| | DUPLEX 6 AWG | DUPLEX 6 AWG | DUPLEX 6 AWG | DUPLEX 6 AWG | DUPLEX 6 AWG | DUPLEX 6 AWG |
| Height (ft) | 28.75 | 28.75 | 28.75 | 28.75 | 28.75 | 28.75 |
| Horiz. Offset (in) | 26.35 | 26.35 | 34.56 | 34.56 | 34.56 | 34.56 |
| Cable Diameter (in) | 0.5370 | 0.5370 | 0.5370 | 0.5370 | 0.5370 | 0.5370 |
| Sag at Max Temp (ft) | 2.25 | 2.40 | 2.25 | 2.40 | 2.25 | 2.40 |
| Cable Weight (lbs/ft) | 0.071 | 0.071 | 0.071 | 0.071 | 0.071 | 0.071 |
| Lead/Span Length (ft) | 175.0 | 185.0 | 175.0 | 185.0 | 175.0 | 185.0 |
| Span Angle (deg) | 0.0 | 180.0 | 0.0 | 180.0 | 0.0 | 180.0 |
| Wire Length (ft) | 175.0 | 185.0 | 175.0 | 185.0 | 175.0 | 185.0 |
| Tension (lbs) | 500 | 500 | 1,000 | 1,000 | 1,000 | 1,000 |
| Tension Moment* (ft-lb) | 18,165 | -17,323 | -337 | 2,364 | 337 | 2,363 |
| Offset Moment* (ft-lb) | 336 | -592 | 169 | 7 | 160 | 7 |
| Wind Moment* (ft-lb) | 1 | 0 | 1,484 | 1 | 1,404 | 1 |
| Moment at GL* (ft-lb) | 18,502 | -17,914 | 1,317 | 2,371 | 1,900 | 2,371 |
| Totals: | 0 | -38 | 11,033 | 10,995 | 809 | 809 |

| Comm | Owner | Height (ft) | Horiz. Offset (in) | Cable Diameter (in) | Sag at Max Temp (ft) | Cable Weight (lbs/ft) | Lead/Span Length (ft) | Span Angle (deg) | Wire Length (ft) | Tension (lbs) | Tension Moment* (ft-lb) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|----------------|----------|-------------|--------------------|---------------------|----------------------|-----------------------|-----------------------|------------------|------------------|---------------|-------------------------|------------------------|----------------------|-----------------------|
| Telco | TELE 1.0 | 36.85 | 40.34 | 1.0000 | 0.76 | 0.400 | 85.0 | 270.0 | 85.0 | 500 | 18,165 | 336 | 1 | 18,502 |
| Telco | TELE 1.0 | 36.85 | 40.34 | 1.0000 | 0.19 | 0.400 | 41.0 | 90.0 | 41.0 | 500 | -17,323 | -592 | 0 | -17,914 |
| Telco | TELE 1.0 | 24.06 | 55.32 | 1.0000 | 3.36 | 0.400 | 185.0 | 180.0 | 185.1 | 1,000 | -337 | 169 | 1,484 | 1,317 |
| Telco | TELE 1.0 | 23.94 | 62.63 | 1.0000 | 3.83 | 0.400 | 85.0 | 270.0 | 85.6 | 100 | 2,364 | 7 | 1 | 2,371 |
| Telco | TELE 1.0 | 24.06 | 55.32 | 1.0000 | 3.13 | 0.400 | 175.0 | 0.0 | 175.0 | 1,000 | 337 | 160 | 1,404 | 1,900 |
| Telco | TELE 1.0 | 23.95 | 57.88 | 1.0000 | 3.83 | 0.400 | 85.0 | 270.0 | 85.6 | 100 | 2,363 | 7 | 1 | 2,371 |
| Telco | TELE 1.0 | 24.06 | 40.44 | 1.0000 | 3.36 | 0.400 | 185.0 | 180.0 | 185.1 | 1,000 | -337 | 123 | 1,484 | 1,270 |
| Telco | TELE 1.0 | 24.06 | 40.44 | 1.0000 | 3.13 | 0.400 | 175.0 | 0.0 | 175.1 | 1,000 | 337 | 116 | 1,404 | 1,856 |
| Telco | TELE 1.0 | 24.06 | 25.70 | 1.0000 | 3.36 | 0.400 | 185.0 | 180.0 | 185.1 | 1,000 | -337 | 77 | 1,484 | 1,224 |
| Telco | TELE 1.0 | 23.94 | 39.02 | 1.0000 | 0.89 | 0.400 | 41.0 | 90.0 | 41.1 | 100 | -2,350 | 4 | 0 | -2,346 |
| Telco | TELE 1.0 | 24.06 | 25.70 | 1.0000 | 3.13 | 0.400 | 175.0 | 0.0 | 175.1 | 1,000 | 337 | 73 | 1,404 | 1,813 |
| Telco | TELE 1.0 | 23.94 | 30.83 | 1.0000 | 0.89 | 0.400 | 41.0 | 90.0 | 41.1 | 100 | -2,349 | 5 | 0 | -2,343 |
| Totals: | | | | | | | | | | | 869 | 486 | 8,665 | 10,020 |

| Generic Equipment | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|-------------------|--------------------------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|--------------------|------------------|------------------------|----------------------|-----------------------|
| Box | Housing For RRUs | 16.00 | 12.63 | 90.0 | 0.0 | 130.00 | 53.00 | 16.00 | -- | 23.00 | -137 | 1,732 | 1,595 |
| Box | 100amp Meter | 8.00 | 7.40 | 90.0 | 0.0 | 10.00 | 24.00 | 4.63 | -- | 12.00 | -6 | 204 | 198 |
| Cylinder | 3" Dia 7" Steel Pipe | 42.25 | 0.37 | 0.0 | 0.0 | 53.06 | 84.00 | -- | 3.00 | -- | 0 | 591 | 591 |
| Cylinder | Antenna-KMW FX-OM2LI OH2 | 46.92 | 1.13 | 0.0 | 0.0 | 20.00 | 24.00 | -- | 16.00 | -- | 0 | 900 | 900 |
| Totals: | | | | | | | | | | | -143 | 3,427 | 3,284 |

| Power Equipment | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|-----------------|-----------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|--------------------|------------------|------------------------|----------------------|-----------------------|
| Transformer | 1PH-15KVA | 31.17 | 16.76 | 180.0 | 180.0 | 335.00 | 34.00 | -- | 22.00 | -- | -7 | 1,294 | 1,287 |
| Totals: | | | | | | | | | | | -7 | 1,294 | 1,287 |

| Crossarm | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|----------------|-----------------------------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|------------------|------------------------|----------------------|-----------------------|
| Normal | CROSSARM 3-1/2 X 4-1/2 X 8 | 36.17 | 5.23 | 180.0 | 180.0 | 53.00 | 4.50 | 3.50 | 96.00 | 0 | 52 | 51 |
| Normal | CROSSARM 3-1/2 X 4-1/2 X 6 | 28.75 | 5.65 | 0.0 | 0.0 | 40.00 | 4.50 | 3.50 | 72.00 | 0 | 41 | 41 |
| Offset | ALLEY ARM 3-1/2 X 4-1/2 X 5 | 23.25 | 5.96 | 180.0 | 180.0 | 33.00 | 4.50 | 3.50 | 60.00 | 80 | 33 | 113 |
| Totals: | | | | | | | | | | 80 | 125 | 206 |

| Riser | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|----------------|-------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|--------------------|------------------|------------------------|----------------------|-----------------------|
| Riser 45.0° | Riser | 45.00 | 5.68 | 45.0 | 45.0 | 45.00 | 540.00 | 3.00 | 3.00 | 540.00 | -14 | 2,016 | 2,001 |
| Totals: | | | | | | | | | | -14 | 2,016 | 2,001 | |

| Insulator | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) | |
|----------------|------------------------|-------------|--------------------|--------------------|--------------------|-------------------|--------------------|------------------|------------------------|----------------------|-----------------------|------------|
| Post | Post Insulator - 15 kV | 36.35 | 40.00 | 262.6 | 0.0 | 11.00 | 4.75 | 6.00 | 37 | 58 | 94 | |
| Post | Post Insulator - 15 kV | 36.35 | -40.00 | 97.4 | 0.0 | 11.00 | 4.75 | 6.00 | -37 | 58 | 21 | |
| Post | Post Insulator - 15 kV | 36.35 | -22.00 | 103.4 | 0.0 | 11.00 | 4.75 | 6.00 | -20 | 58 | 37 | |
| Suspension | Suspension 11.50" | 28.75 | -20.00 | 285.8 | 0.0 | 11.00 | 4.75 | 11.50 | 19 | 87 | 106 | |
| Suspension | Suspension 11.50" | 28.75 | 30.00 | 79.3 | 0.0 | 11.00 | 4.75 | 11.50 | -27 | 87 | 60 | |
| Suspension | Suspension 11.50" | 28.75 | -30.00 | 280.7 | 0.0 | 11.00 | 4.75 | 11.50 | 28 | 87 | 115 | |
| Pin | Pin Insulator - 5 kV | 23.44 | 55.00 | 263.8 | 0.0 | 6.00 | 3.50 | 7.50 | 27 | 34 | 62 | |
| Pin | Pin Insulator - 5 kV | 23.44 | 40.00 | 261.5 | 0.0 | 6.00 | 3.50 | 7.50 | 20 | 34 | 54 | |
| Pin | Pin Insulator - 5 kV | 23.44 | 25.00 | 256.6 | 0.0 | 6.00 | 3.50 | 7.50 | 12 | 34 | 47 | |
| Totals: | | | | | | | | | | 58 | 537 | 596 |

| Guy Wire and Brace | Owner | Attach Height (ft) | End Height (ft) | Lead/Span Length (ft) | Wire Diameter (in) | Percent Solid (%) | Lead Angle (deg) | Incline Angle (deg) | Wire Weight (lbs/ft) | Rest Length (ft) | Stretch Length (in) |
|--------------------|-----------|--------------------|-----------------|-----------------------|--------------------|-------------------|------------------|---------------------|----------------------|------------------|---------------------|
| EHS 3/8 | Span/Head | 30.33 | 30.33 | 175.00 | 0.375 | 75.00 | 0.0 | 0.0 | 0.273 | 172.30 | 0.00 |

| Guy Wire and Brace (Loads and Reactions) | Elastic Modulus (psi) | Rated Tensile Strength (lbs) | Guy Strength Factor | Allowable Tension (lbs) | Initial Tension (lbs) | Loaded Tension*2 (lbs) | Maximum Tension*2 (lbs) | Applied Tension*3 (lbs) | Vertical Load (lbs) | Shear Load In Guy Dir (lbs) | Shear Load At Report Angle (lbs) | Moment at GL* (ft-lb) |
|--|-----------------------|------------------------------|---------------------|-------------------------|-----------------------|------------------------|-------------------------|-------------------------|---------------------|-----------------------------|----------------------------------|-----------------------|
| EHS 3/8 | Span/Head | 15,400 | 0.75 | 11,550 | 700 | 558 | 558 | 3 | 0 | 3 | 0 | 663 |
| Totals: | | | | | | | | | | 0 | 3 | 663 |

| Anchor/Rod Load Summary | | | | | | | | | | |
|-------------------------|-------|---------------------------|---------------------|---------------------|----------------------------------|----------------------------------|----------------------------|--------------------------------|---|--|
| Anchor | Owner | Rod Length AGL (in) | Lead Length (ft) | Lead Angle (deg) | Strength of Assembly (lbs) | Anchor/Rod Strength Factor | Allowable Load (lbs) | Max Load ² (lbs) | Load at Pole MCU ³ (lbs) | Max Required Capacity ² (%) |
| Anchor | | 30.00 | 175.00 | 0.0 | 20,000 | 0.75 | 15,000 | 558 | 3 | 3.7 |

| Pole Buckling | | | | | | | | | | | | | |
|----------------------|---------------------------------------|--|---|--|----------------------------|---------------------------|-----------------------------------|--------------------------|----------------------|----------------------------|--|---|--------------------------------------|
| Buckling Constant | Buckling Column Height* (ft) | Buckling Section Height (% Buckling Col. Hgt.) | Buckling Section Diameter (in) | Minimum Buckling Diameter at GL (in) | Diameter at Tip (in) | Diameter at GL (in) | Modulus of Elasticity (psi) | Pole Density (pcf) | Ice Density (pcf) | Pole Tip Height (ft) | Buckling Load Capacity at Height (lbs) | Buckling Load Applied at Height (lbs) | Buckling Load Factor of Safety |
| 0.71 | 25.89 | 34.00 | 10.08 | 8.83 | 6.69 | 11.09 | 1.60e+6 | 60.00 | 57.00 | 38.50 | 82,356 | 841.07 | 33.33 |

DOUGLAS FIR POLE SIZING CHART

| Class | H-6 | H-5 | H-4 | H-3 | H-2 | H-1 | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------------------------|---|------------|------------|------------|------------|------------|----------|----------|----------|----------|----------|----------|
| Minimum Circumference at Top (Inches) | 39 | 37 | 35 | 33 | 31 | 29 | 27 | 25 | 23 | 21 | 19 | 17 |
| Length of Pole (Feet) | Minimum Circumference at 6 feet from Butt (Inches) | | | | | | | | | | | |
| 20 | - | - | - | - | - | - | 31.0 | 29.0 | 27.0 | 25.0 | 23.0 | 21.0 |
| 25 | - | - | - | - | - | - | 33.5 | 31.5 | 29.5 | 27.5 | 25.5 | 23.0 |
| 30 | - | - | - | - | - | - | 36.5 | 34.0 | 32.0 | 29.5 | 27.5 | 25.0 |
| 35 | - | - | - | - | 43.5 | 41.5 | 39.0 | 36.5 | 34.0 | 31.5 | 29.0 | 27.0 |
| 40 | - | - | 51.0 | 48.5 | 46.0 | 43.5 | 41.0 | 38.5 | 36.0 | 33.5 | 31.0 | 28.5 |
| 45 | 58.5 | 56.0 | 53.5 | 51.0 | 48.5 | 45.5 | 43.0 | 40.5 | 37.5 | 35.0 | 32.5 | 30.0 |
| 50 | 61.0 | 58.5 | 55.5 | 53.0 | 50.5 | 47.5 | 45.0 | 42.0 | 39.0 | 36.5 | 34.0 | - |
| 55 | 63.5 | 60.5 | 58.0 | 55.0 | 52.0 | 49.5 | 46.5 | 43.5 | 40.5 | 38.0 | - | - |
| 60 | 65.5 | 62.5 | 59.5 | 57.0 | 54.0 | 51.0 | 48.0 | 45.0 | 42.0 | 39.0 | - | - |
| 65 | 67.5 | 64.5 | 61.5 | 58.5 | 55.5 | 52.5 | 49.5 | 46.5 | 43.5 | 40.5 | - | - |
| 70 | 69.0 | 66.5 | 63.5 | 60.5 | 57.0 | 54.0 | 51.0 | 48.0 | 45.0 | 41.5 | - | - |
| 75 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 55.5 | 52.5 | 49.0 | 46.0 | - | - | - |
| 80 | 72.5 | 69.5 | 66.5 | 63.5 | 60.0 | 57.0 | 54.0 | 50.5 | 47.0 | - | - | - |
| 85 | 74.5 | 71.5 | 68.0 | 65.0 | 61.5 | 58.5 | 55.0 | 51.5 | 48.0 | - | - | - |
| 90 | 76.0 | 73.0 | 69.5 | 66.5 | 63.0 | 59.5 | 56.0 | 53.0 | 49.0 | - | - | - |
| 95 | 77.5 | 74.5 | 71.0 | 67.5 | 64.5 | 61.0 | 57.0 | 54.0 | - | - | - | - |
| 100 | 79.0 | 76.0 | 72.5 | 69.0 | 65.5 | 62.0 | 58.5 | 55.0 | - | - | - | - |
| 105 | 80.5 | 77.0 | 74.0 | 70.5 | 67.0 | 63.0 | 59.5 | 56.0 | - | - | - | - |
| 110 | 82.0 | 78.5 | 75.0 | 71.5 | 68.0 | 64.5 | 60.5 | 57.0 | - | - | - | - |
| 115 | 83.5 | 80.0 | 76.5 | 72.5 | 69.0 | 65.5 | 61.5 | 58.0 | - | - | - | - |
| 120 | 85.0 | 81.0 | 77.5 | 74.0 | 70.0 | 66.5 | 62.5 | 59.0 | - | - | - | - |
| 125* | 86.0 | 82.5 | 78.5 | 75.0 | 71.0 | 67.5 | 63.5 | 59.5 | - | - | - | - |
| | H-6 | H-5 | H-4 | H-3 | H-2 | H-1 | 1 | 2 | 3 | 4 | 5 | 6 |

* 125' Availability: Untreated Only



at&t

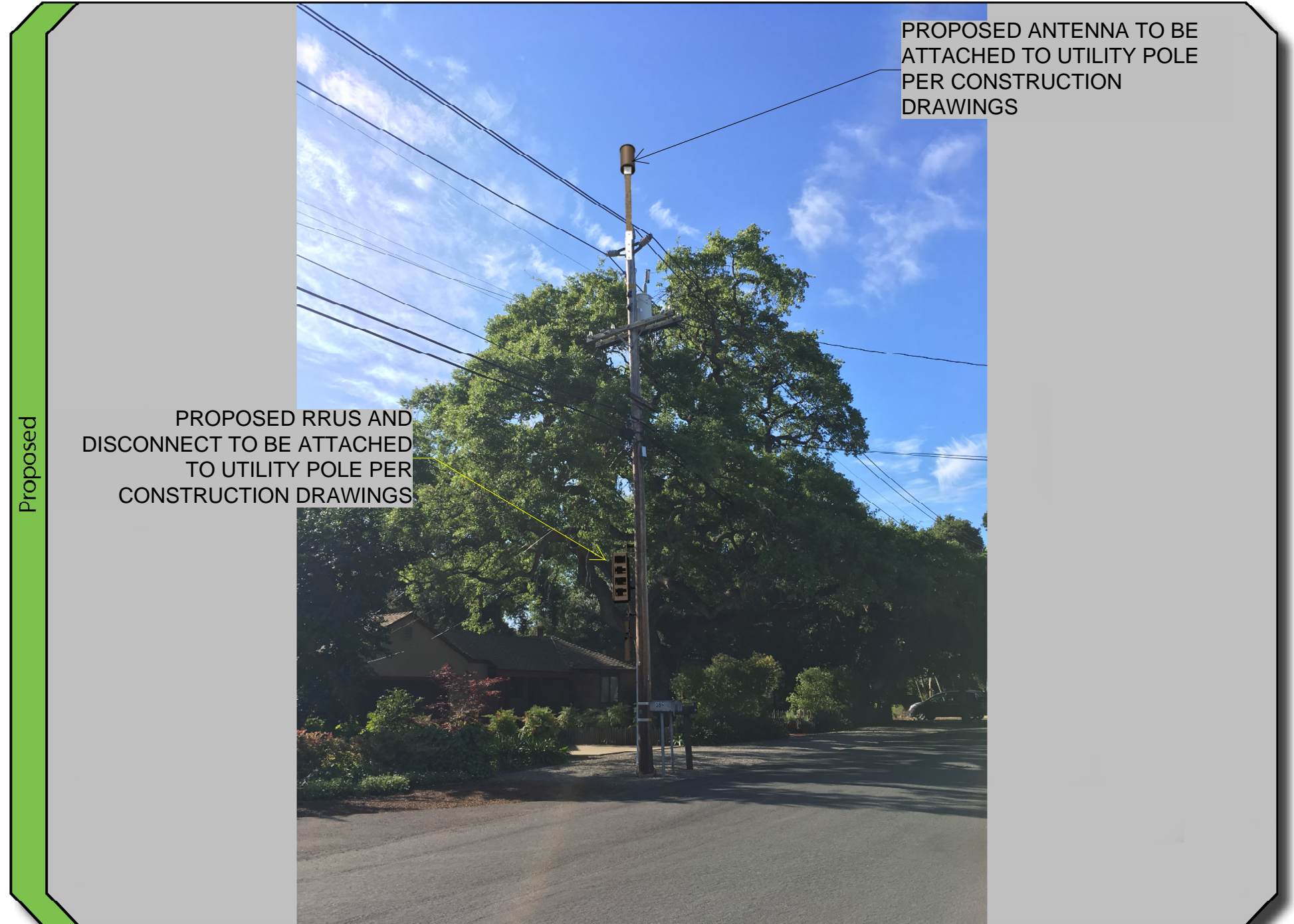
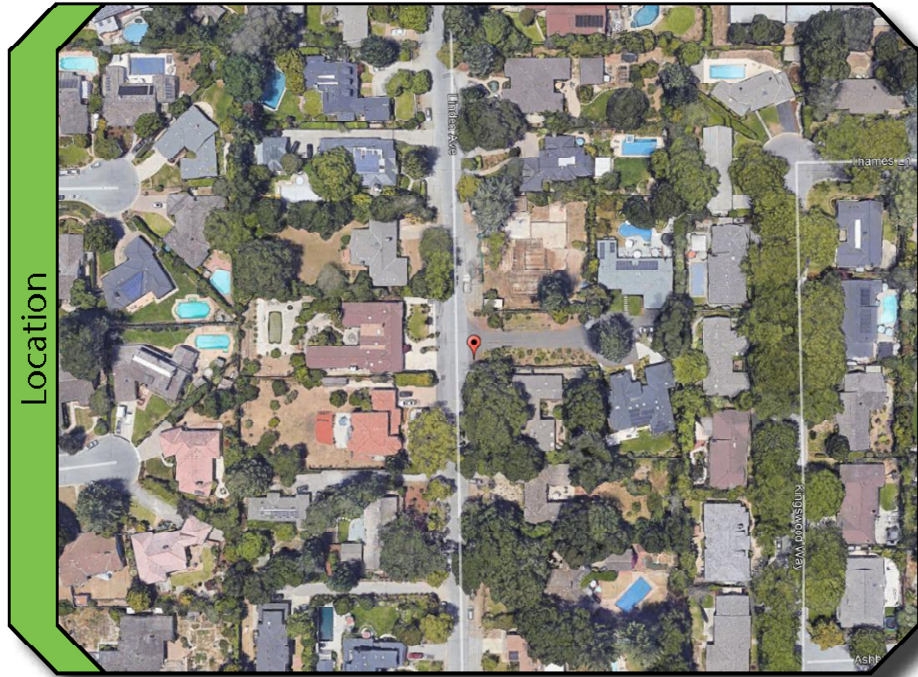
CRAN_RSFR_LOSA0_02

687 LINDEN AVENUE
LOS ALTOS, CA 94022



SURESITE
Infrastructure experts. Small cell leaders.

View 1 of 1



MARCH 20, 2019

Prepared by: RGL

Alternate Review

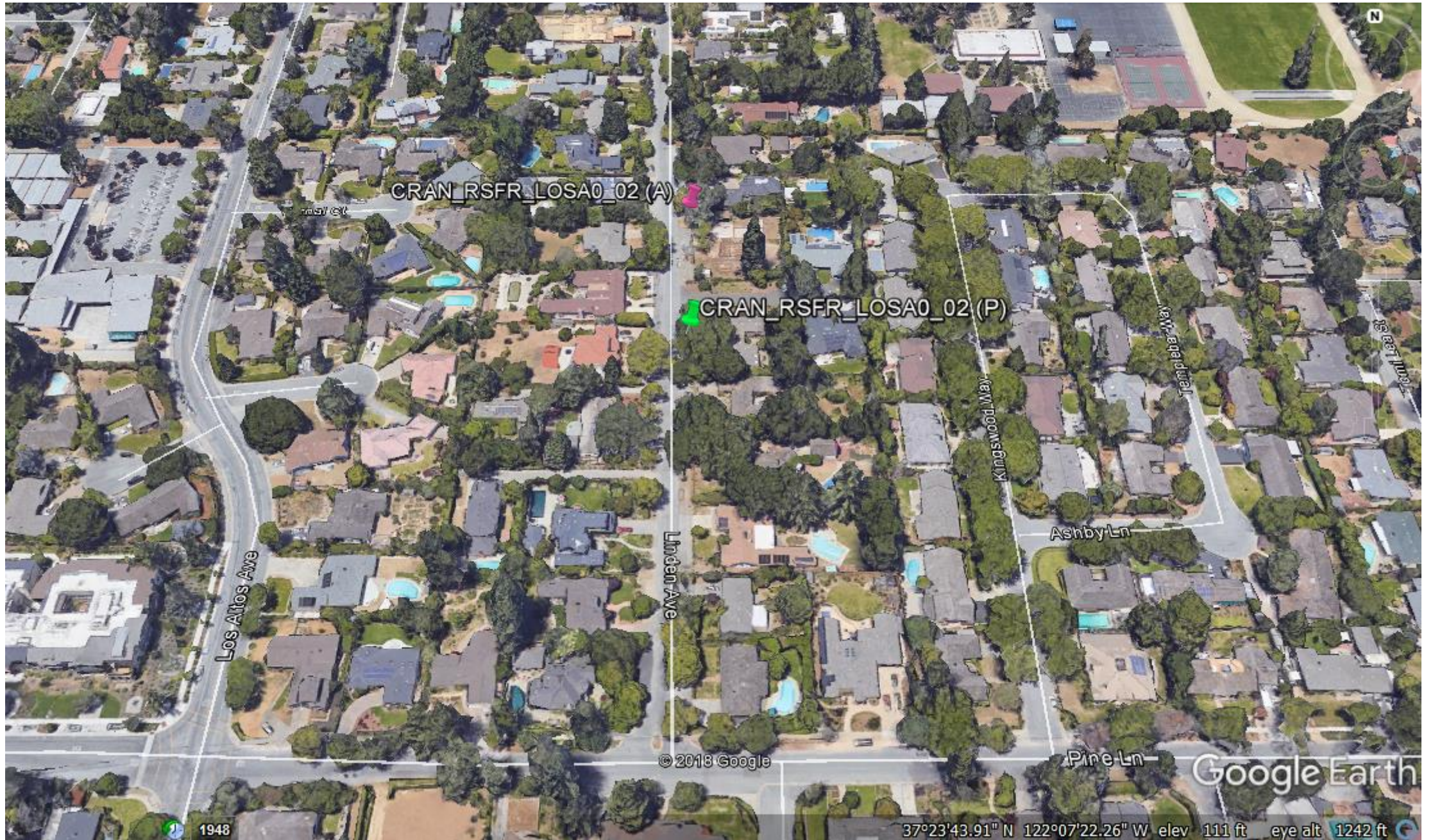
- ❑ AT&T proposed a node location near Linden Avenue and Pine Lane
- ❑ Existing (traditional) cell sites are not suitable candidates for colocation as they do not meet network requirements
- ❑ One alternate location was considered



Alternative Site Location

This location is a wood utility pole located in the public ROW on the east side of Linden Ave approximately 500 feet from Pine Lane

This pole is considered a possible candidate but is located farther away from the center of the preferred location as required by our network needs.



CRAN_RSFR_LOSA0_02 (A)

CRAN_RSFR_LOSA0_02 (P)

Los Altos Ave

Linden Ave

Kingswood Way

Ashby Ln

Templebar Way

Pine Ln

© 2018 Google

Google Earth

1948

37°23'43.91" N 122°07'22.26" W elev 111 ft eye alt 1242 ft

AT&T Future Build-out Sites



| Name | Address |
|----------|---------------------|
| LOSA0_01 | 141 Almond Ave |
| LOSA0_02 | 687 Linden Ave |
| LOSA0_03 | 421 Valencia |
| LOSA0_04 | 33 Pine |
| LOSA0_05 | 49 San Juan |
| LOSA0_06 | 791 Los Altos |
| LOSA0_07 | 98 Eleanor |
| LOSA0_08 | 182 Garland |
| LOSA0_09 | 491 Patrick Way |
| LOSA0_10 | 300 Los Altos Ave |
| LOSA0_11 | 130 Los Altos |
| LOSA0_12 | 356 Blue Oak |
| SJWE_007 | 5000 El Camino Real |
| SJWE_012 | 4294 El Camino Real |



at&t

SITE ID: CRAN_RSFR_LOSAO_02
 SITE ADDRESS: ROW ADJCT TO 687 LINDEN AVE
 LOS ALTOS, CA 94022
 SITE TYPE: PG&E POLE (PM# 114474289)
 POLE OWNER: PG&E
 FA LOCATION: 12898152
 USID: TBD



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

| SITE INFORMATION | VICINITY MAP | PROJECT TEAM | PROJECT DESCRIPTION |
|------------------|--------------|--------------|---------------------|
|------------------|--------------|--------------|---------------------|

APPLICANT: AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583

AGENT: SURESITE
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

AFN: ADJCT TO 167-23-079

SITE ADDRESS: ROW ADJCT TO 687 LINDEN AVE
 LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 37.57" N (37.39376944) NAD 83

LONGITUDE: 122° 07' 09.22" W (-122.11916667) NAD 83

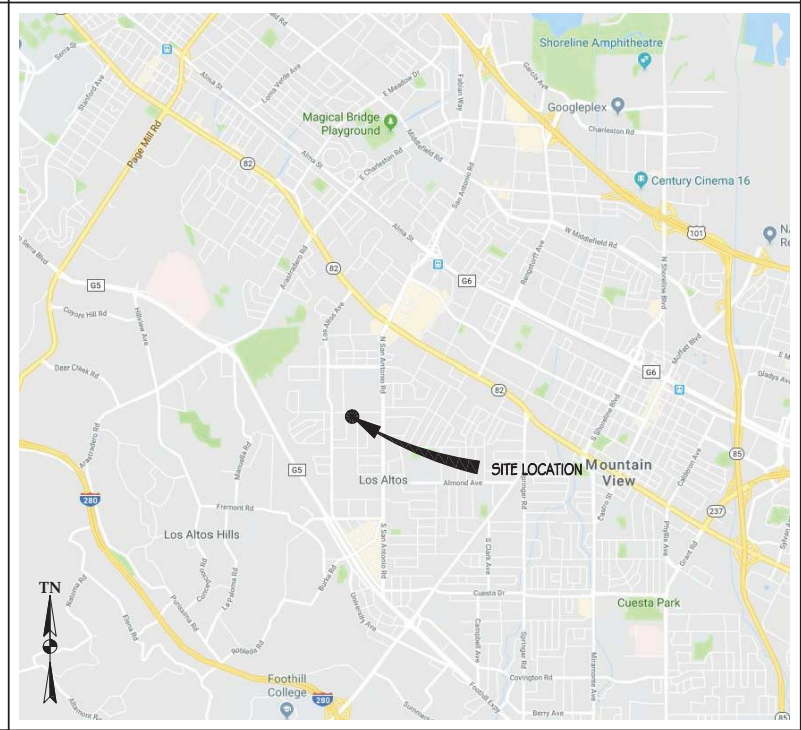
GROUND ELEVATION: ± 114.7' AMSL

ZONING: PUBLIC ROW

ZONING JURISDICTION: LOS ALTOS

PG&E SAP ID: 100544568

STREET CLASSIFICATION: LOCAL



AGENT: SURESITE
 36 EXECUTIVE PARK, #210
 IRVINE, CA 92614

PROJECT MANAGERS:
 CHRIS JOHNSON
 ERICSSON
 6140 STONERIDGE MALL RD, SUITE 350
 PLEASANTON, CA 94588
 (408) 796-8443
 CHRISTOPHER.JOHNSON@ERICSSON.COM

CONSTRUCTION MANAGER:
 TBD

ARCHITECT/ENGINEER OF RECORD:
 BRET McCOMB
 PRECISION DESIGN & DRAFTING, INC
 11768 ATWOOD ROAD, SUITE #20
 AUBURN, CA 95603
 (530) 823-6546
 BRET@PDND.COM

RF MANAGER:
 TBD

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT OF AN (E) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

- INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRU 11 & (1) 4415 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1 OH2 CYLINDRICAL ANTENNA.
- ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL.
- UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.

DRAWING INDEX

| SHEET NO: | SHEET TITLE |
|-----------|--|
| T-1 | TITLE SHEET |
| T-2 | GENERAL NOTES, LEGEND, & ABBREVIATIONS |
| A-1 | SITE PLAN |
| A-2 | EQUIPMENT PLAN & ANTENNA PLANS |
| A-3 | ELEVATIONS |
| A-4 | ELEVATIONS |
| A-5 | DETAILS |
| A-6 | DETAILS |
| E-1 | SINGLE-LINE DIAGRAM & DETAILS |
| E-2 | GROUNDING DIAGRAMS |
| TR-1 | TRAFFIC CONTROL PLAN |

CODE COMPLIANCE

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

- 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA FIRE CODE
- LOCAL BUILDING CODES
- CITY/COUNTY ORDINANCES
- ANSI/AIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
TO: 687 LINDEN AVE, LOS ALTOS, CA 94022

| | |
|---|---------|
| 1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR | 256 FT |
| 2. TURN RIGHT ONTO SUNSET DR | 0.1 MI |
| 3. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD | 0.3 MI |
| 4. USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE | 0.3 MI |
| 5. MERGE ONTO I-680 S | 3.9 MI |
| 6. CONTINUE STRAIGHT TO STAY ON I-680 S | 17.5 MI |
| 7. TAKE EXIT 8 TO MERGE ONTO CA-237 W/ CALAVERAS BLVD TOWARD CENTRAL MILPITAS | 0.5 MI |
| 8. MERGE ONTO CA-237 W/ CALAVERAS BLVD | 1.8 MI |
| 9. USE THE RIGHT 2 LANES TO TURN SLIGHTLY RIGHT | 0.2 MI |
| 10. TAKE THE RAMP ONTO CA-237 W | 0.3 MI |
| 11. MERGE ONTO CA-237 W | 8.2 MI |
| 12. KEEP LEFT TO CONTINUE ON CA-237 W/ SOUTHBAY FWY | 0.5 MI |
| 13. TURN RIGHT ONTO EL CAMINO REAL | 2.3 MI |
| 14. TURN LEFT ONTO JORDAN AVE | 0.5 MI |
| 15. TURN LEFT ONTO N SAN ANTONIO RD | 0.2 MI |
| 16. TURN RIGHT ONTO PINE LN | 0.3 MI |
| 17. TURN RIGHT ONTO LINDEN AVE | 0.1 MI |

END AT: 687 LINDEN AVE, LOS ALTOS, CA 94022

ESTIMATED TIME: 1 HR 17 MINS **ESTIMATED DISTANCE:** 42 MI

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

**CALL
"CALL BEFORE YOU DIG"
811/800-227-2600
NATIONWIDE UNDERGROUND SERVICE ALERT**

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11" x 17" PLOT, DRAWINGS WILL BE HALF SCALE.

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 11768 Atwood Rd., Suite 20 Auburn, CA 95603

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DRAWN BY: I. BAKER

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 10/29/18

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

GENERAL CONSTRUCTION NOTES

- 1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, AFFURTEANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

GENERAL NOTES FOR EXISTING CELL SITES

- 1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

APPLICABLE CODES, REGULATIONS, AND STANDARDS

- 1. CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.

GENERAL TRENCHING NOTES

- 1. MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.

GENERAL GROUNDING NOTES

- 1. 5/8" x 1/2" ROD, CAD WELD BELOW GRADE.

GENERAL CONDUIT NOTES

- 1. ALL CONDUITS WILL BE MANHOLED AND EQUIPPED WITH 3/8" FULL ROPE.

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

- 1. CABLE NOT TO IMPEDE 15' CLEAR SPACE OFF POLE FACE.

ABBREVIATIONS

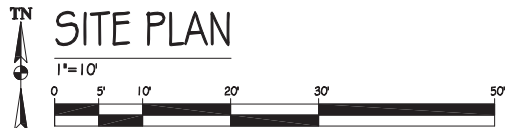
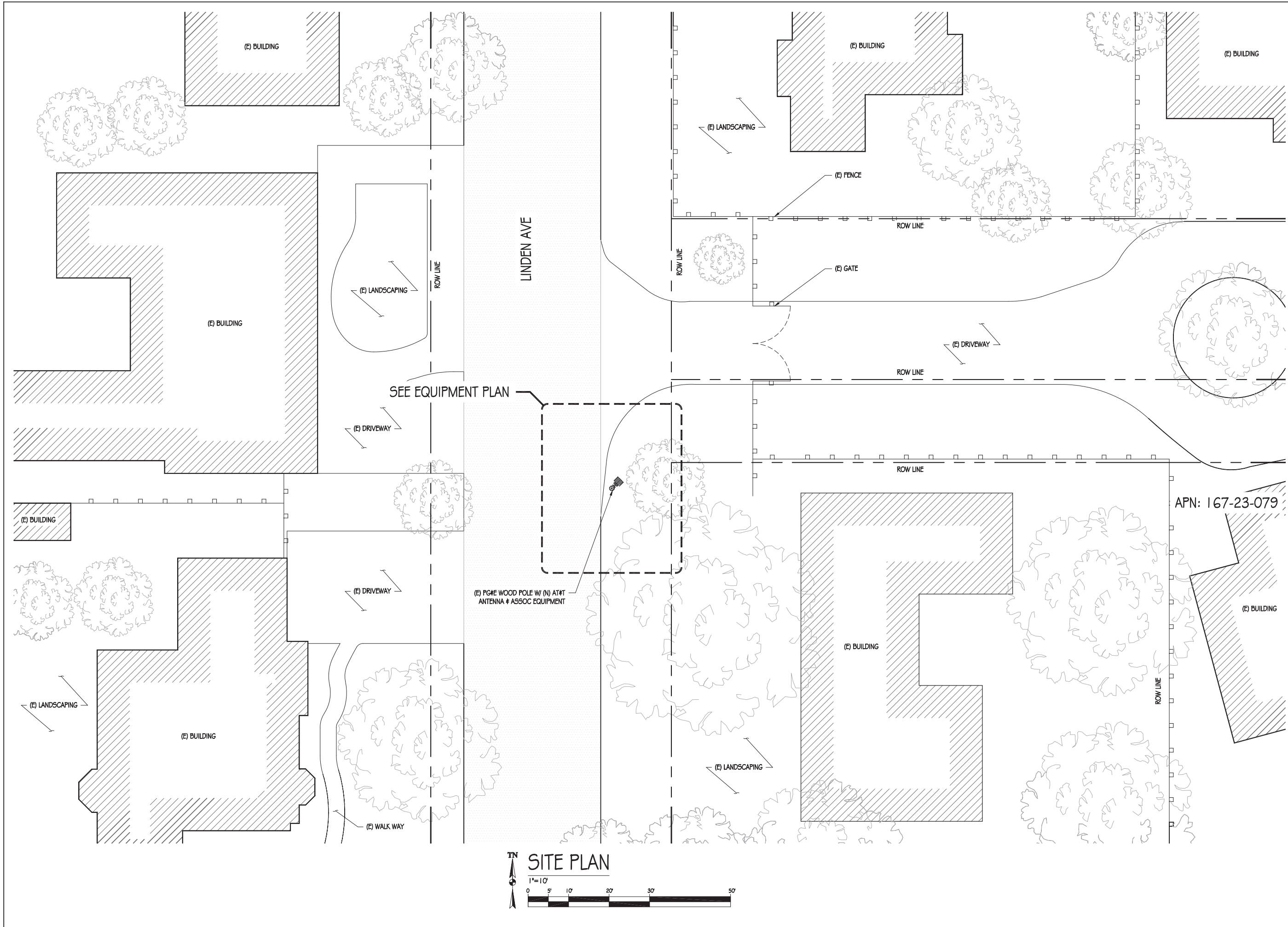
Table listing various abbreviations and their corresponding symbols or descriptions, including terms like AMPERE, ANCHOR BOLT, HEIGHT, ISOLATED COPPER GROUND BUSS, etc.

SYMBOLS LEGEND

Table listing symbols and their corresponding descriptions, including symbols for NEW ANTENNA, EXISTING ANTENNA, GROUND ROD, GROUND BUSS BAR, MECHANICAL GRND. CONN., GROUND ACCESS WELL, ELECTRIC BOX, TELEPHONE BOX, LIGHT POLE, FND. MONUMENT, SPOT ELEVATION, SET POINT, REVISION, GRID REFERENCE, DETAIL REFERENCE, ELEVATION REFERENCE, SECTION REFERENCE, etc.

Project information block containing logos for at&t, SURESITE, and PRECISION DESIGN & Drafting, Inc., along with project name CRAN_RSFR_LO5AO_02, location ROW ADJCT TO 687 LINDEN AVE, LOS ALTOS, CA 94022, and issue status table.

GENERAL NOTES, LEGEND, & ABBREVIATIONS



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SITE PLAN

SHEET NUMBER

A-1

LINDEN AVE

(E) PG&E WOOD POLE W/ (N) AT&T ANTENNA # ASSOC EQUIPMENT

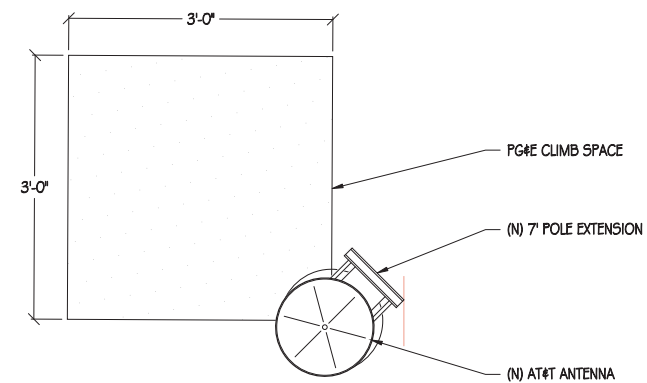
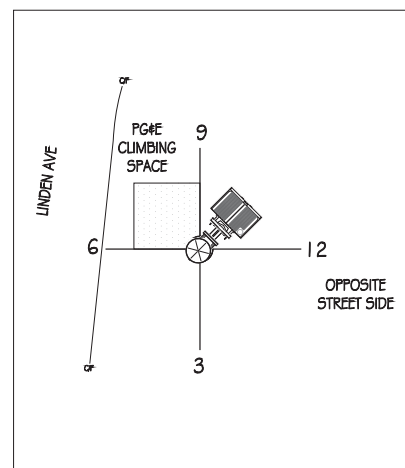
(E) LANDSCAPING

SEE ANTENNA PLANS

ROW LINE

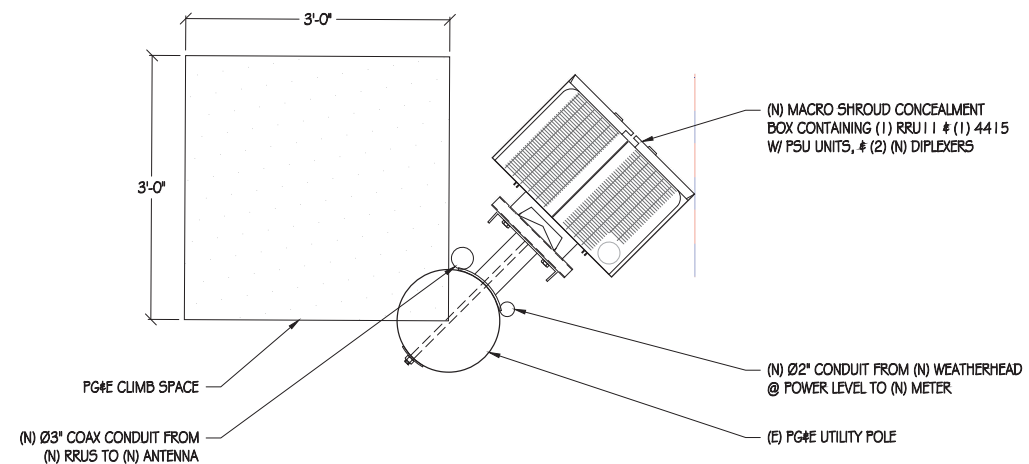
EQUIPMENT PLAN

1/2" = 1'



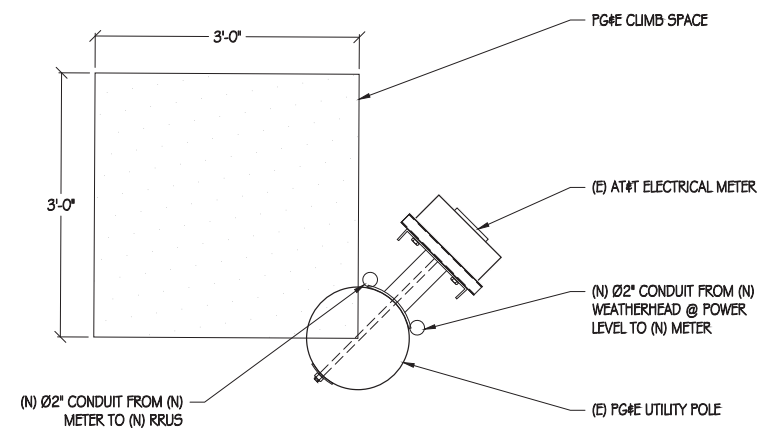
ANTENNA PLAN

1" = 1'



RRH PLAN

1" = 1'



ELECTRICAL METER PLAN

1" = 1'



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EQUIPMENT PLAN &
ANTENNA PLANS

SHEET NUMBER

A-2



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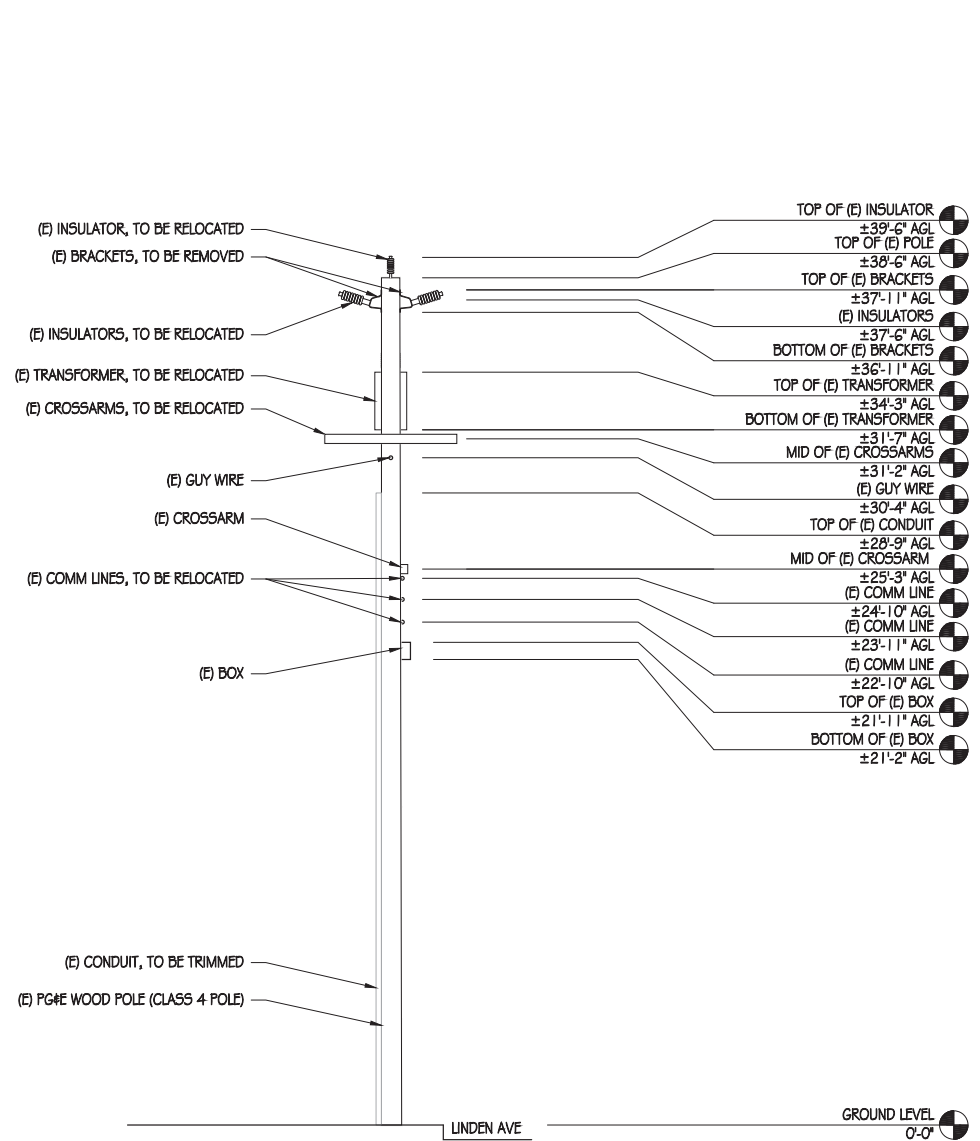
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ELEVATIONS

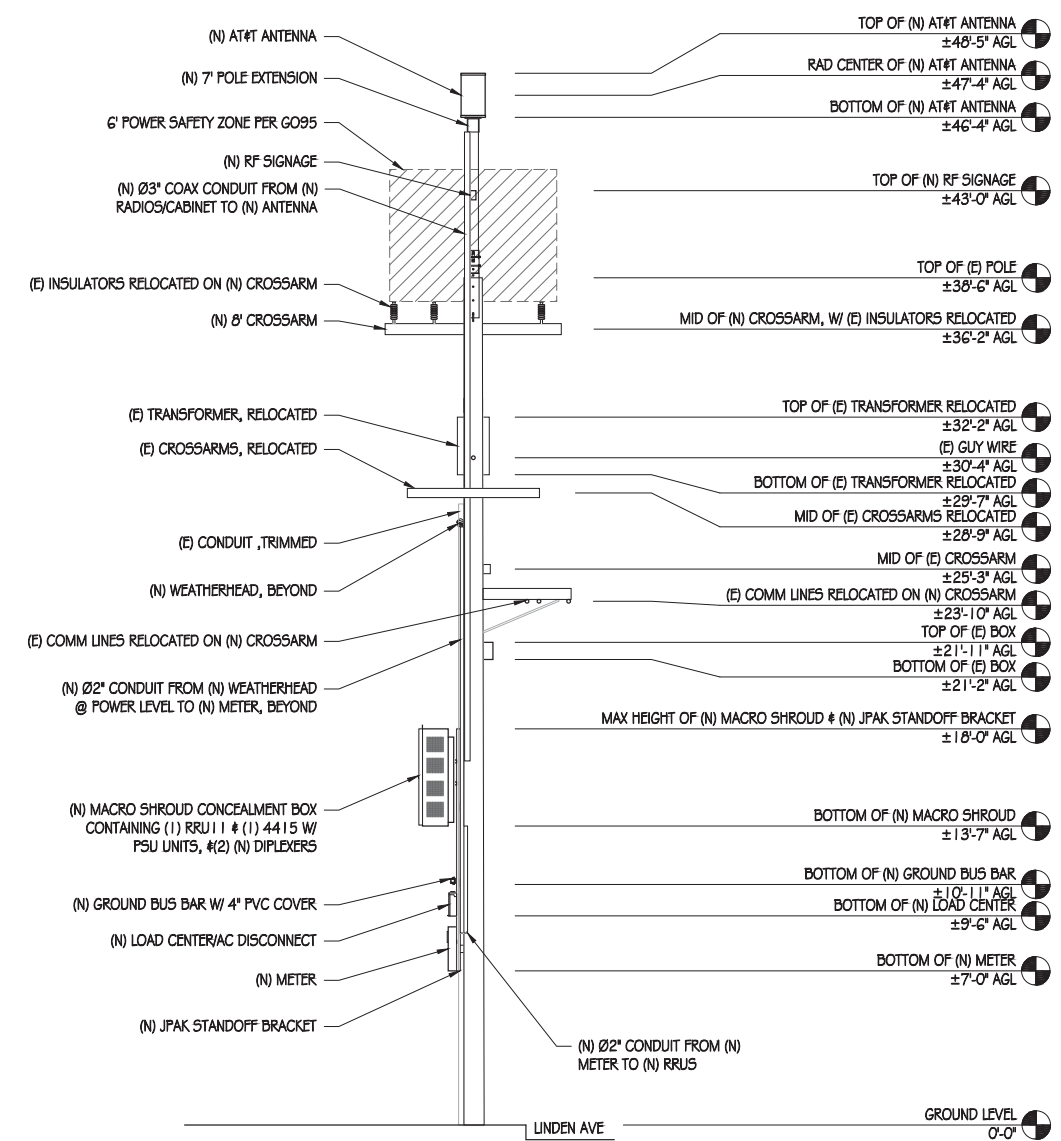
SHEET NUMBER

A-3



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"
NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN
NOTE: COMM LINES RELOCATED ON (N) CROSSARM



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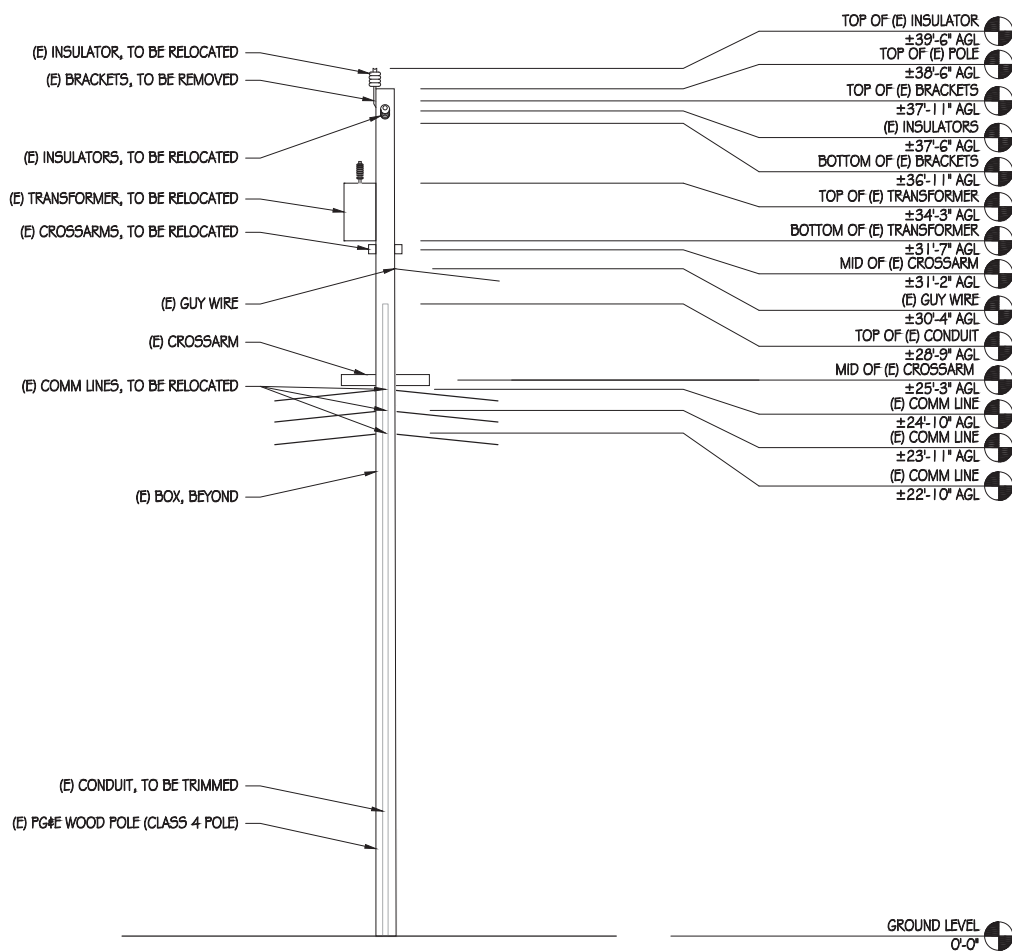
DATE: 10/29/18

SHEET TITLE:

ELEVATIONS

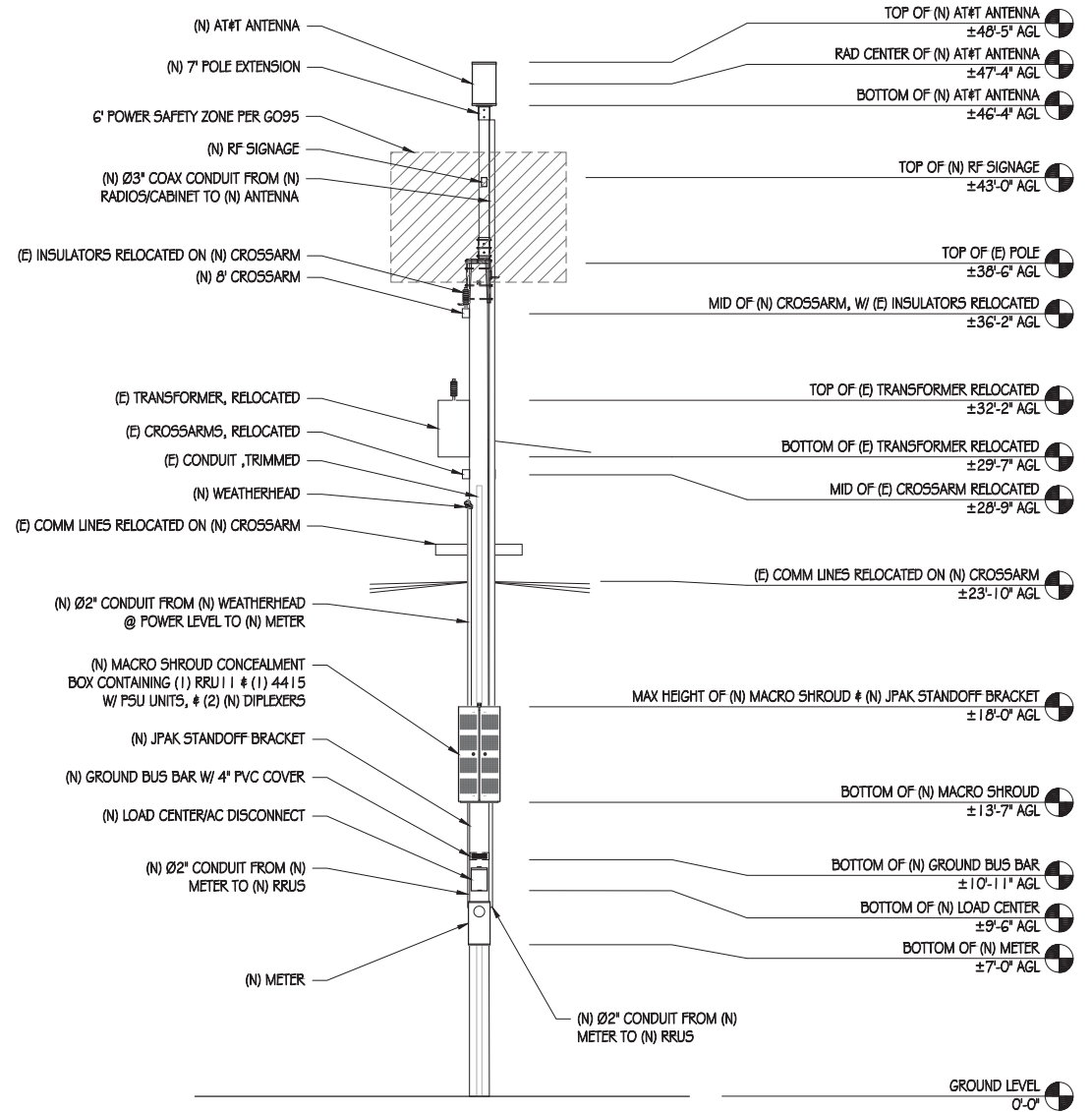
SHEET NUMBER

A-4



EXISTING EAST ELEVATION

1/4" = 1'-0"



NEW EAST ELEVATION

1/4" = 1'-0"

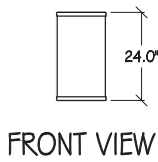
NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN
NOTE: COMM LINES RELOCATED ON (N) CROSSARM

POLE-TOP EXTENSION NOTES:

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

KMW FX-OM2L1OH2-06T

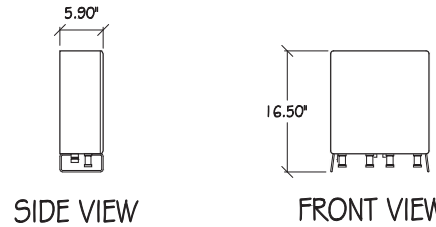
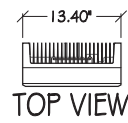
WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



1 ANTENNA
 1/2"=1'

ERICSSON RRU5-4415

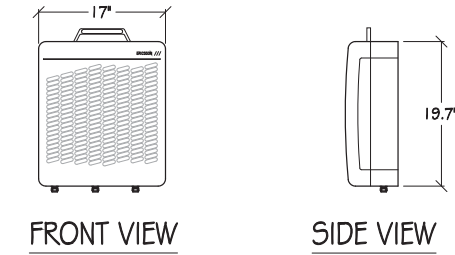
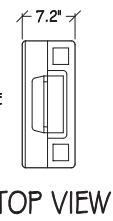
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



2 RRU5-4415 DETAIL
 1"=1'

ERICSSON RRU5-111

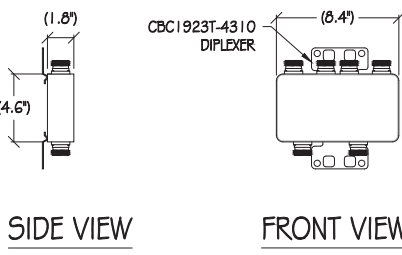
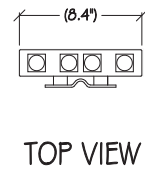
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



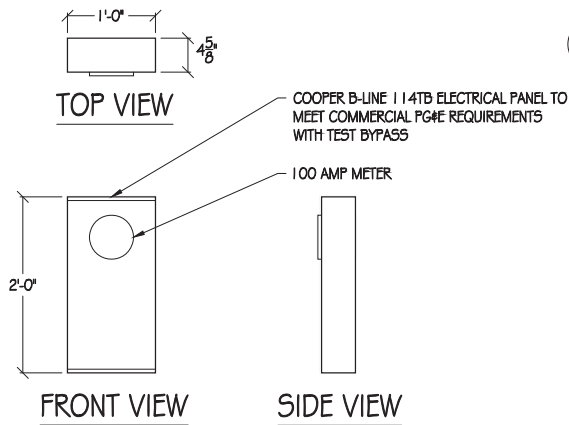
3 RRU5-111 DETAIL
 1"=1'

**COMMSCOPE
 CBC1923T-4310/
 E11F13P06**

COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



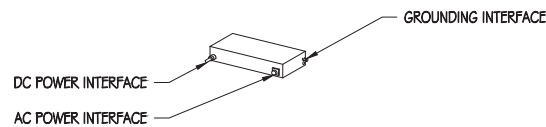
4 DIPLEXER DETAIL
 1"=6"



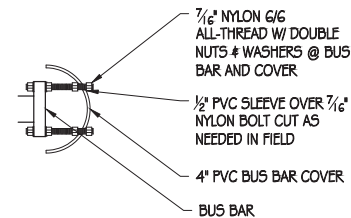
5 METER DETAIL
 1"=1'

ERICSSON PSU AC 08

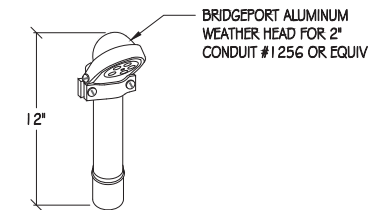
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



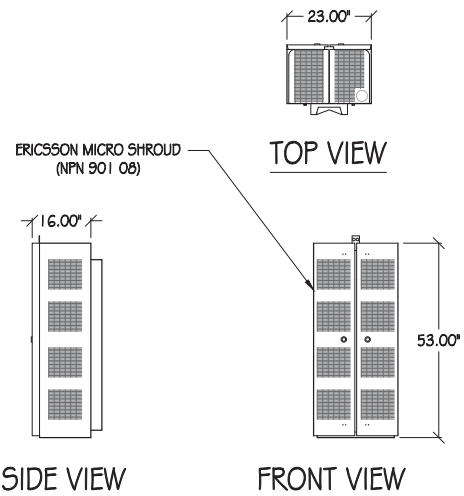
6 AC POWER MODULE
 NTS



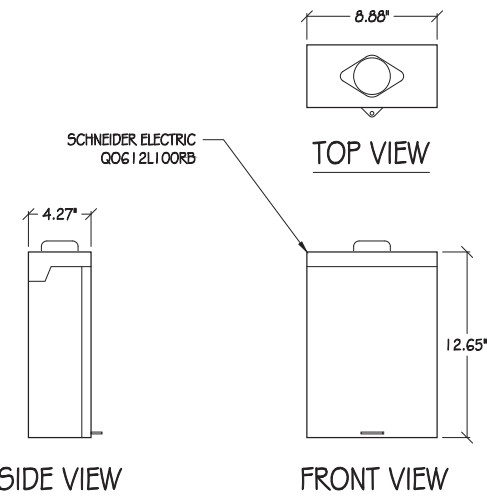
7 BUS BAR COVER
 6"=1'



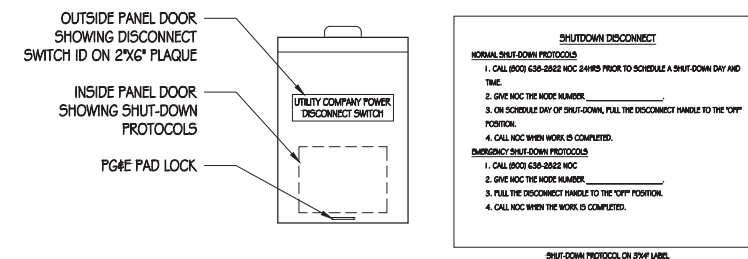
8 WEATHER HEAD
 NTS



9 MICRO SHROUD CONCEALMENT
 1/2"=1'



10 LOAD CENTER/AC DISCONNECT
 1"=6"



11 DISCONNECT SIGNAGE
 3"=1'

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT



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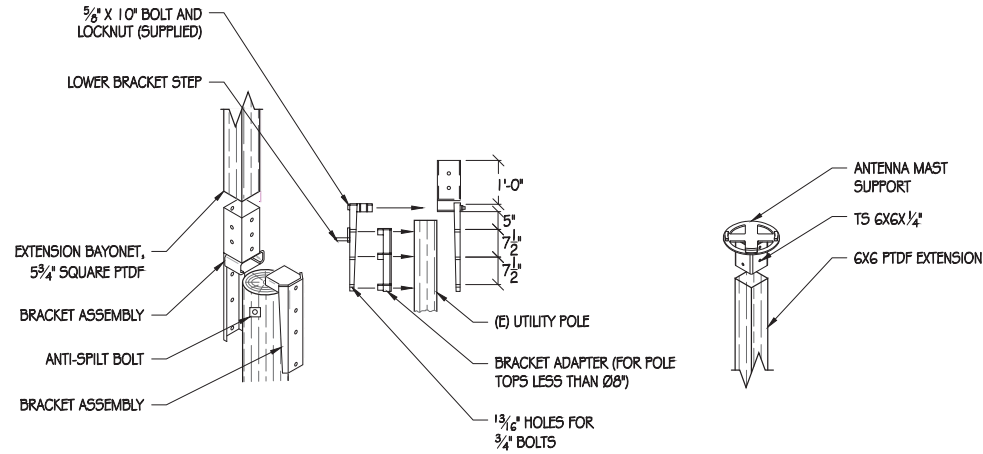
DETAILS

SHEET NUMBER

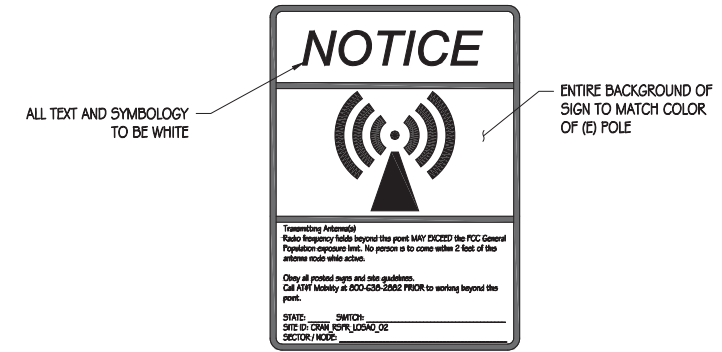
A-5

STRUCTURAL STEEL NOTES:

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

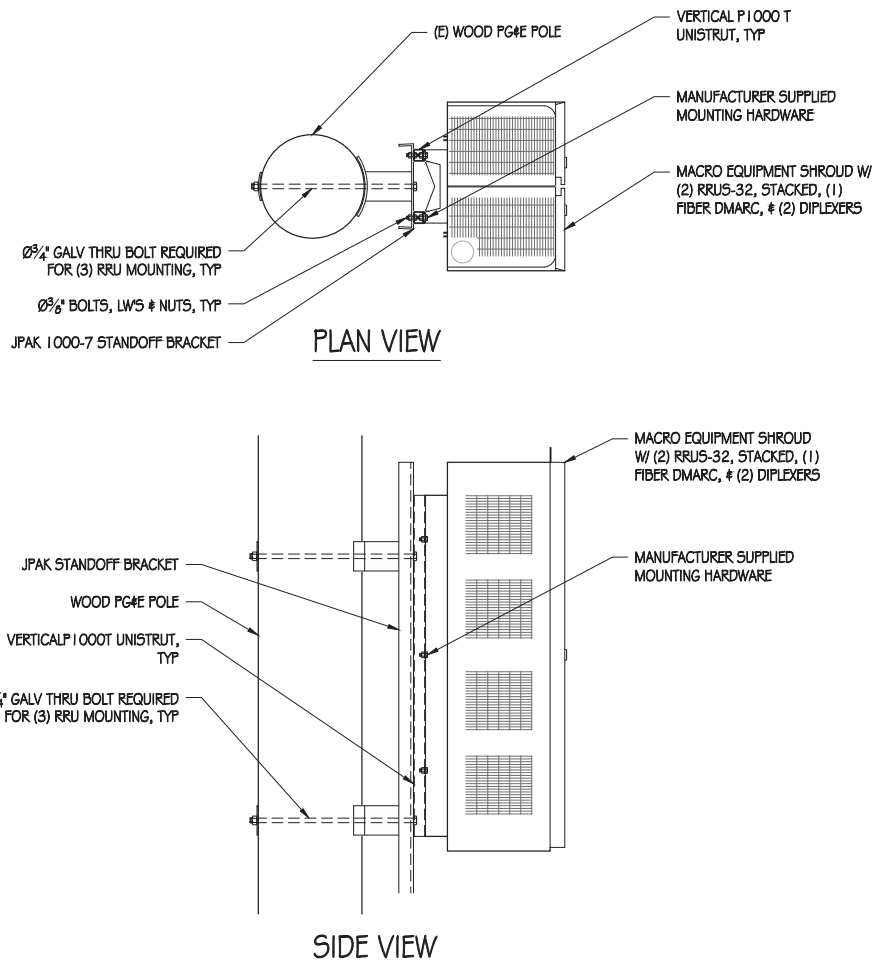


1 POLE TOP EXTENSION ASSEMBLY
1/2" = 1'

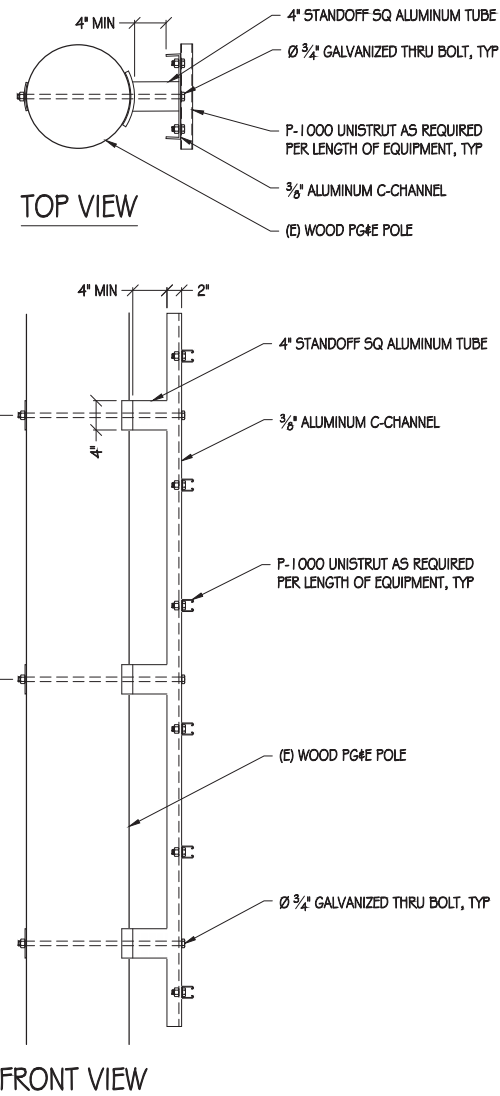


2 NOTICE SIGNAGE
NTS

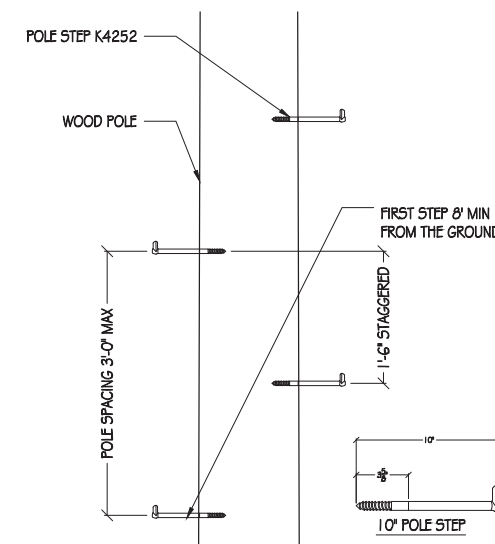
NOTES:
NOTICE IS A VINYL STICKER ADHERED TO POLE



3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



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DRAWN BY: I. BAKER
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 10/29/18

SHEET TITLE:

DETAILS

SHEET NUMBER

A-6

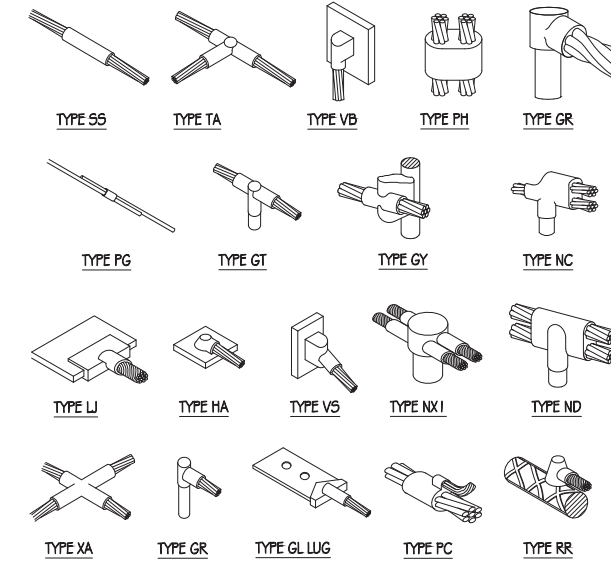
GENERAL ELECTRICAL NOTES:

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

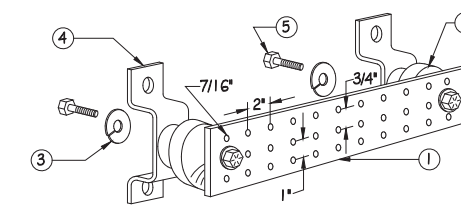
POWER AND TELCO NOTES:

1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

| LOAD SCHEDULE | | | | | | | | |
|-------------------|----------|-------------|----------------------|--------------|-------|--------------------|--------|---------|
| MAKE/MODEL | QUANTITY | DESCRIPTION | DIMENSIONS | WEIGHT | TX/RX | MAX TRANSMIT POWER | W | KW |
| ERICSSON RRU5-32 | 2 | RRU | 27.0" X 12.0" X 7.0" | 50.7 LBS | 2T/2R | < 10W PER RRU | 388.83 | 0.38883 |
| NEMA 3R ENCLOSURE | 1 | DISCONNECT | 12.7" X 8.9" X 4.3" | 40 LBS (MAX) | N/A | N/A | N/A | N/A |



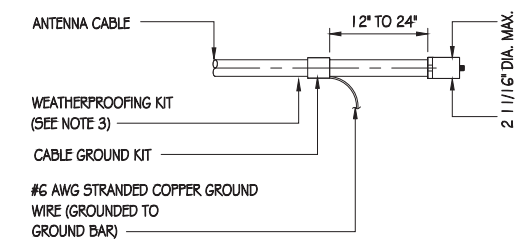
4 EXOTHERMIC WELD DETAILS
NTS



NOTES:

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\"/>

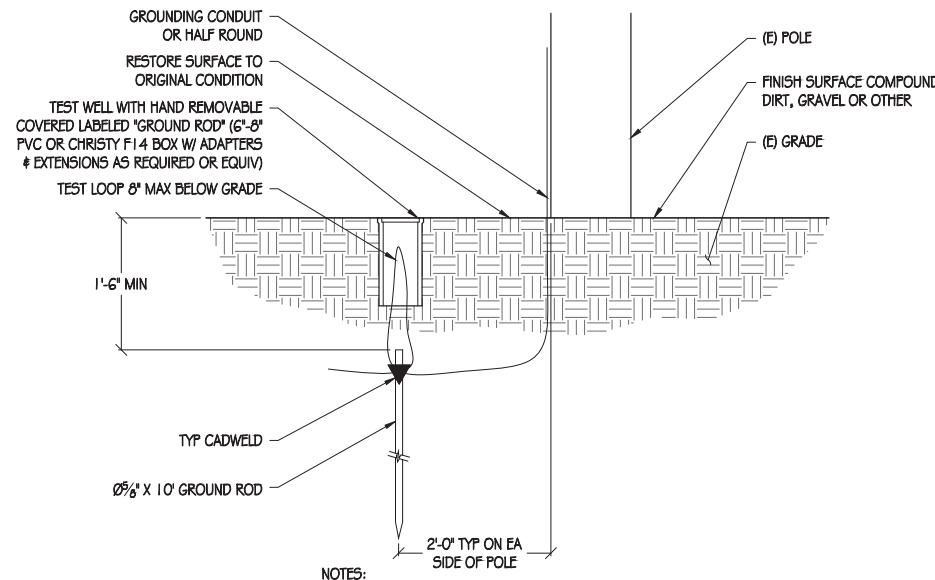
5 GROUND BAR DETAIL
NTS



NOTES:

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

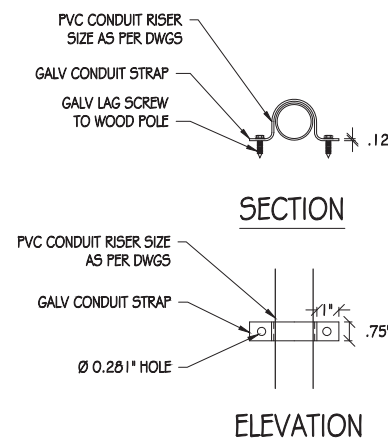
6 GND KIT DETAIL
NTS



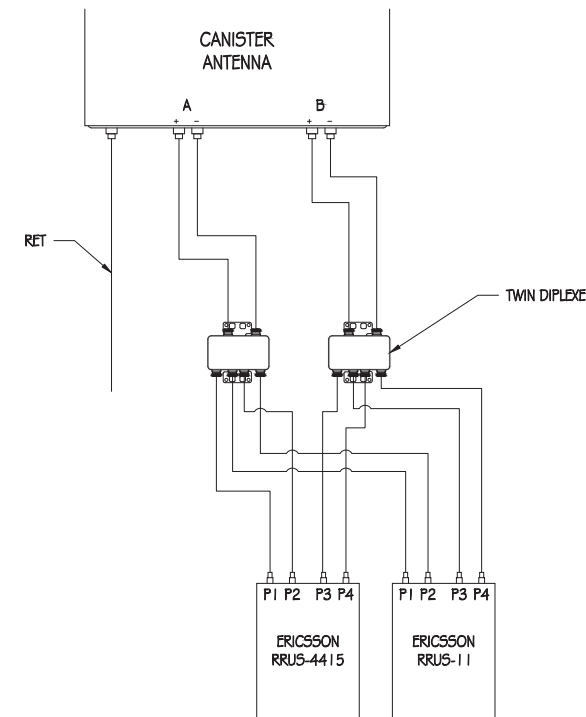
NOTES:

1. IF GROUND ROD IS INSTALLED ON SIDEWALK AREA, CORE DRILL SIDEWALK PRIOR TO INSTALLING INSPECTION WELL
2. EXPOSED CONCRETE TO HAVE BROOM FINISH

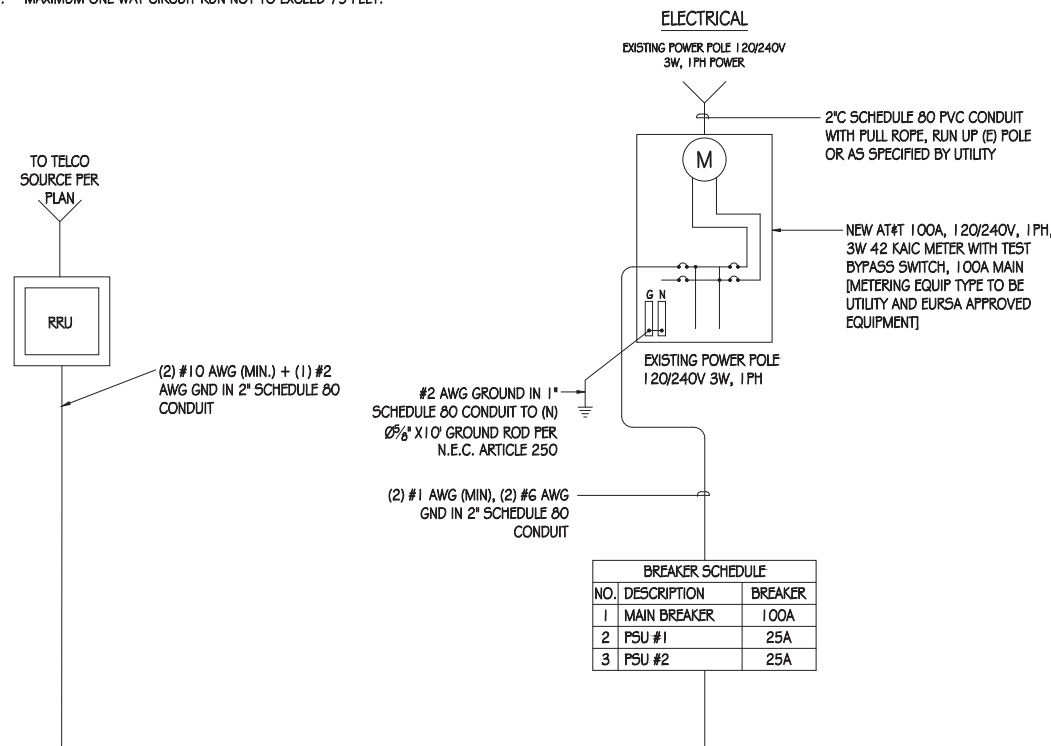
1 POLE GROUNDING DETAIL
NTS



2 CONDUIT RISER DETAIL
NTS



3 WIRE DIAGRAM DETAIL
NTS



SINGLE-LINE DIAGRAM



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (510) 823-6546 www.pdinc.com
11708 Alwood Rd., Suite 20 Alhambra, CA 95003

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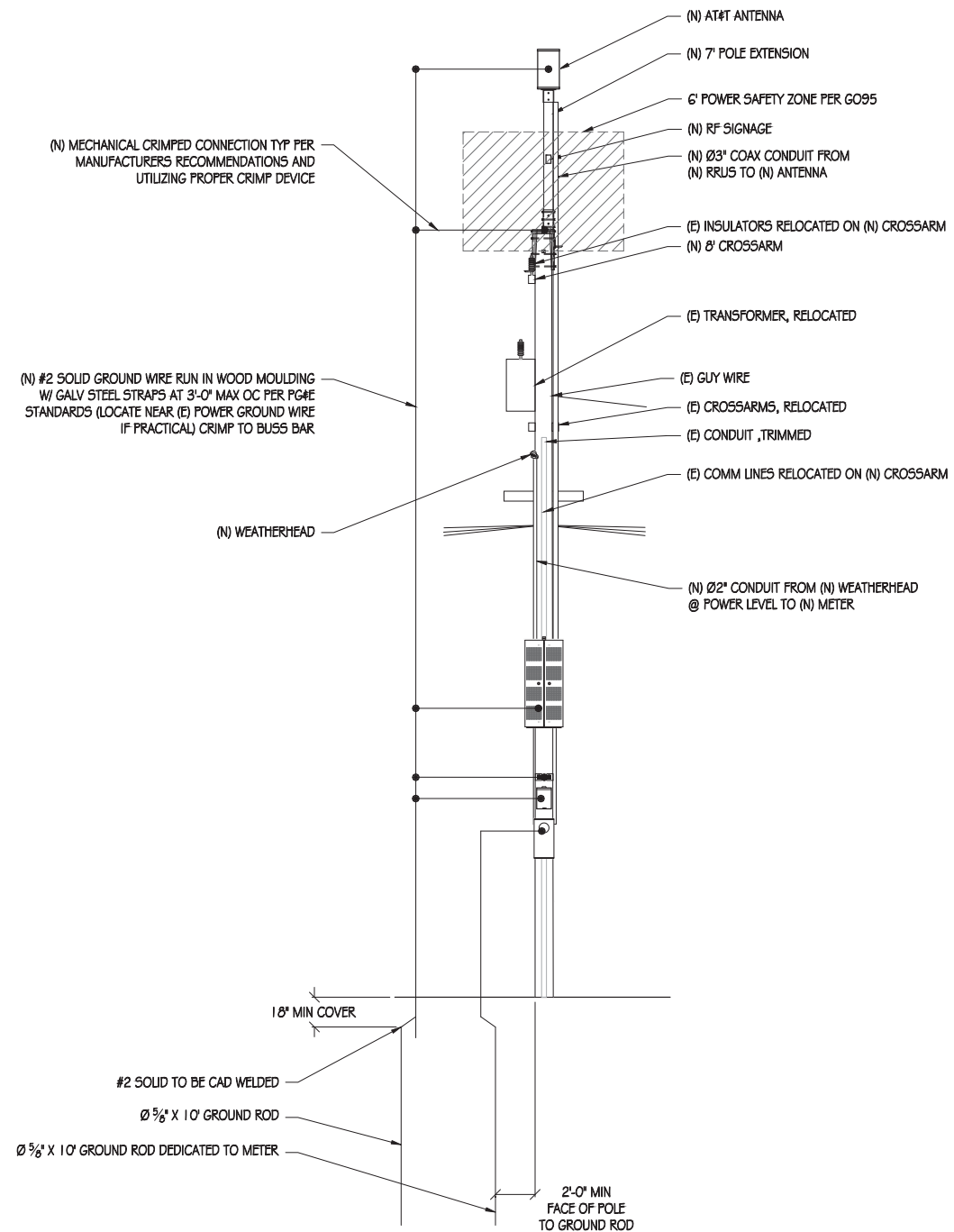
CRAN_RSFR_LOSAO_02
ROW ADJCT TO 687 LINDEN AVE
LOS ALTOS, CA 94022

ISSUE STATUS

| Δ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/20/18 | CD 90% |
| | 10/29/18 | CD 100% |

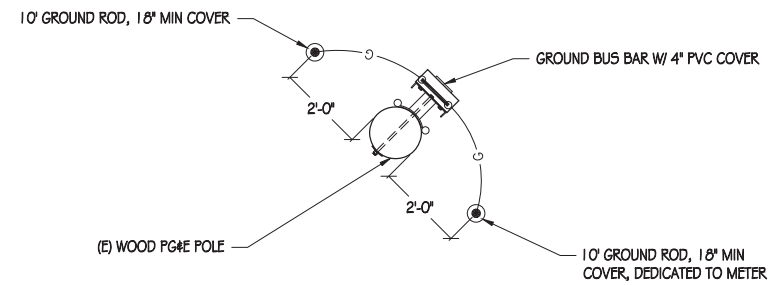
DRAWN BY: I. BAKER
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 10/29/18
SHEET TITLE:
SINGLE-LINE DIAGRAM & DETAILS
SHEET NUMBER

E-1



POLE GROUNDING DIAGRAM

NTS



GROUNDING PLAN

NTS



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

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Phone: (510) 823-6546 www.pdind.com
11708 Alwood Rd., Suite 20 Alhambra, CA 95603

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ISSUE STATUS

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| | | |

DRAWN BY: I. BAKER

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 10/29/18

SHEET TITLE:

GROUNDING DIAGRAMS

SHEET NUMBER

E-2

TRAFFIC CONTROL NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
- ALL DELINEATORS SHALL BE EQUIPPED WITH REFLECTORS AT NIGHT TIME.
- THE CONTRACTOR SHALL NOTIFY THE CITY/COUNTY OF RECORD AND CALTRANS PERMIT INSPECTOR AT LEAST FIVE WORKING DAYS IN ADVANCE OF IMPLEMENTING ANY CONSTRUCTION DETOUR.
- ALL SIGNS, DELINEATORS, BARRICADES, ETC. AND THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AND THE MUTCD CALIFORNIA SUPPLEMENT, STATE OF CALIFORNIA STANDARD SPECIFICATION, SPECIAL PROVISIONS, AND STAMPED PLANS.
- THE CITY/COUNTY OF RECORDS AND CALTRANS RESERVE THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN USE AND TO MAKE ANY NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS. EXACT LOCATION OF ALL EQUIPMENT AND TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER.
- ALL TRAFFIC CONTROL DEVICES, STRIPES, MARKINGS, LEGENDS AND RAISED PAVEMENT MARKERS SHALL CONFIRM TO THE MUTCD AND THE CALIFORNIA SUPPLEMENT (LATEST EDITION), THE STATE OF CALIFORNIA STANDARD SPECIFICATION (LATEST EDITION), SPECIAL PROVISIONS, AND STAMPED PLANS. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
- ALL TRAFFIC LANES SHALL HAVE A MINIMUM OF 5 FEET CLEARANCE FROM OPEN EXCAVATION AND A MINIMUM OF 2 FEET FROM VERTICAL OBSTRUCTIONS.
- CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY THE CITY/COUNTY INSPECTOR OR CALTRANS PERMIT INSPECTOR.
- ALL ADVANCE WARNING SIGNS SHALL BE EQUIPPED WITH FLAGS.
- TRAFFIC SIGNALS SHALL REMAIN IN OPERATION AT ALL TIMES. SIGNAL OPERATION DURING EACH CONSTRUCTION PHASE SHALL BE COORDINATED WITH AND APPROVED BY THE CITY/COUNTY OF RECORD AND/OR CALTRANS INSPECTOR.
- PLACE ADDITIONAL "LANE CLOSED", (C30) SIGNS ON TYPE II BARRICADES AT 100 FOOT INTERVALS THROUGHOUT EXTENDED WORK AREAS IN EACH LANE THAT IS CLOSED. INSTALL "OPEN TRENCH" (C27) SIGNS WHENEVER AN OPEN EXCAVATION AREA EXISTS ADJACENT TO THE TRAVELED WAY.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION STAGE AND THE PERMANENT TRAFFIC CONTROL DEVICES SHALL BE RESTORED BY THE CONTRACTOR UPON COMPLETION OF PROJECT.
- CONTRACTOR SHALL REPLACE/REPAIR ALL DAMAGED STRIPING AT THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN DISABILITY ACT AS RELATED TO PEDESTRIAN ACCESS AND SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES PER ADA REQUIREMENTS. SIDEWALK CLOSURE/DETOUR SHALL COMPLY WITH THE WATCH STANDARDS AND MUST OBTAIN APPROVAL FROM THE CITY/COUNTY OF RECORD.
- CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING SIGNS.
- CONTRACTOR SHALL POST "SYMBOL" UNEVEN LANES, "STEEL PLATES AHEAD" OR "BUMP" SIGNS FOR PAVEMENT SURFACE DISRUPTIONS OF 3/4" OR GREATER. PAVEMENT DISRUPTIONS FOR 1" OR GREATER SHALL HAVE A BEVELED EDGE OF FOUR (4) HORIZONTAL TO ONE (1) VERTICAL.
- CONTRACTOR SHALL INSTALL "CAUTION STEEL PLATES AHEAD" AND/OR "ROUGH ROAD" SIGNS IN ADVANCE OF STEEL PLATE BRIDGING.
- WORK HOURS SHALL COMPLY WITH SMC 16.08.030.
- RESIDENTS TO BE NOTIFIED OF DATES & TIMES OF CONSTRUCTIONS (2) WEEKS PRIOR TO THE START OF WORK.
- A 5'-0" MIN. PEDESTRIAN CLEARANCE TO BE MAINTAINED AT EXISTING SIDEWALKS.

PERMIT NOTES - PLEASE NOTE THE FOLLOWING:

- ANY WORK AT OR WITHIN 150 FEET OF A SIGNALIZED INTERSECTION MAY REQUIRE TRAFFIC CONTROL, PURSUANT TO SAN JOSE MUNICIPAL CODE SECTION 11.12.050, BY FLAGGER(S) OR CITY OF SAN JOSE POLICE OFFICER(S). THE NEED FOR FLAGGER(S) OR RESERVE POLICE OFFICER(S) WILL BE DETERMINED BASED ON SITE CONDITIONS. FLAGGER(S) SHALL BE SUFFICIENTLY TRAINED AND EQUIPPED IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS, TITLE 8, SECTION 1599. IN ADDITION, FLAGGERS SHALL BE CERTIFIED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) OR THE NATIONAL SAFETY COUNCIL (NSC). THE DIRECTOR OF PUBLIC WORKS RESERVES THE RIGHT TO REQUIRE THE USE OF POLICE OFFICERS WHEN CONDITIONS WARRANT.
- ANY WORK IN THE DOWNTOWN CORE AREA REQUIRES A MINIMUM 10 DAY NOTICE TO CITY OF SAN JOSE DOWNTOWN TRAFFIC OPERATIONS ENGINEER AT (408) 975-3719, PRIOR TO THE START OF WORK. SEE THE APPLICATION FORM TITLED "DOWNTOWN LANE CLOSURE REQUEST FORM".
- ANY WORK NEAR VTA LIGHTRAIL REQUIRES A MINIMUM OF 3 WEEKS ADVANCE NOTICE TO VTA LIGHTRAIL OPERATIONS AT (408) 546-7608.
- ANY WORK PROPOSING TO CLOSE A PARKING LANE WILL REQUIRE THAT "NO PARKING - TOW AWAY" SIGNS BE OBTAINED FROM THE DEPARTMENT OF TRANSPORTATION (408) 535-3850. IF THE PARKING LANE HAS CITY PARKING METERS, THEN ADDITIONAL FEES WILL BE DUE TO COMPENSATE THE CITY FOR LOST REVENUE. SEE THE APPLICATION FORM TITLED "TOW AWAY PERMIT".
- ANY WORK PROPOSED ON A STREET DESIGNATED AS A STATE HIGHWAY WILL REQUIRE A PERMIT FROM CALTRANS. CONTACT JIM WONG AT (408) 452-7131.

TRAFFIC SYMBOL LEGEND

- TRAFFIC CONE
- TRAFFIC SIGN
- LANE DIRECTION
- "ROAD WORK AHEAD" SIGN
- "SHARE THE ROAD" SIGN
- WORK AREA
- "END ROAD WORK" SIGN
- "ARROW BOARD" SIGN

TABLE 1

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

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

24"x36" SCALE: 3/32" = 1'-0"
 11"x17" SCALE: 3/64" = 1'-0"

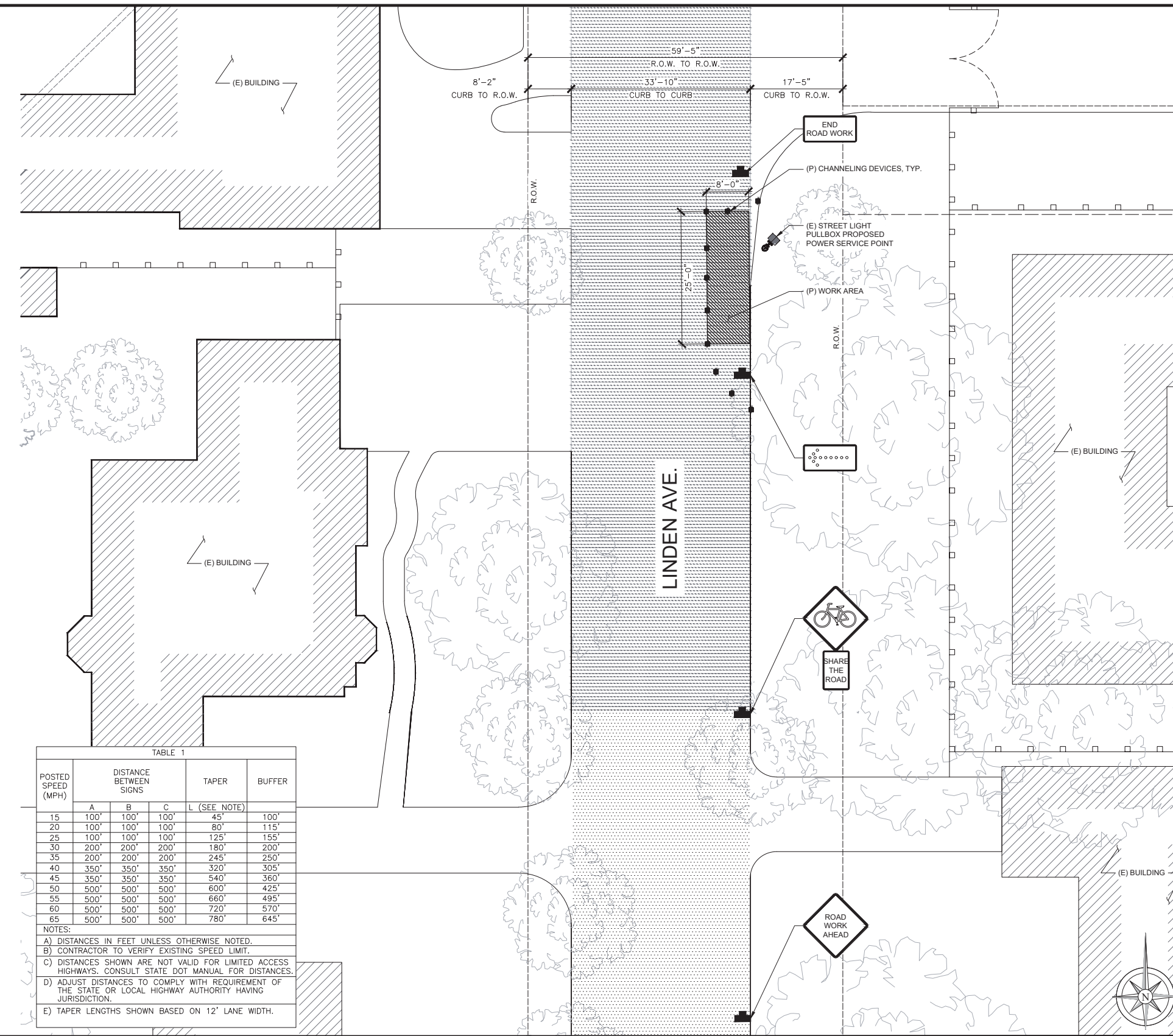


TRAFFIC PLAN 1

SURESITE
 36 EXECUTIVE PARK
 SUITE 210
 IRVINE, CA 92614

| | |
|-------------|-------------------|
| Date: | February 15, 2018 |
| Scale: | Per Plan |
| Designed: | RC |
| Drawn: | RC |
| Checked: | ZLN |
| Proj. Engr: | ZLN |
| File: | |

| NO. | REVISIONS | DESIGN BY | DESIGN DATE | CITY APPR. | APPR. DATE |
|-----|-----------|-----------|-------------|------------|------------|
| | | | | | |



5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



6140 STONERIDGE MALL MD
 THIRD FLOOR
 PLEASANTON, CA 94588



36 EXECUTIVE PARK
 SUITE 210
 IRVINE, CA 92614

| REV | DATE | DESCRIPTION | BY |
|-----|---------|-------------|-----|
| A | 1/31/19 | 90% CD | CSH |

CRAN-RSFR LOSAO_02
 FA TBD
 ROW ADJCT TO
 687 LINDEN AVE.
 LOS ALTOS, CA 94022

SHEET TITLE
TRAFFIC PLAN

SHEET NUMBER
TR-1



at&t

SITE ID: CRAN_RSFR_LOSAO_02
 SITE ADDRESS: 687 LINDEN AVE
 LOS ALTOS, CA 94022
 PM#: 114474289
 SITE TYPE: PG&E POLE #TBD
 POLE OWNER: PG&E
 FA LOCATION: 14816591
 USID: 198291



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

PRECISION DESIGN
 Drafting, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 Atwood Rd, Suite 20 Auburn, CA 95603

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 LOS ALTOS, CA 94022

ISSUE STATUS

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| | 06/20/18 | CD 90% |
| | 07/25/19 | CD 100% |
| | | |
| | | |

DRAWN BY: T.J./I.B.
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19

SHEET TITLE:

TITLE SHEET

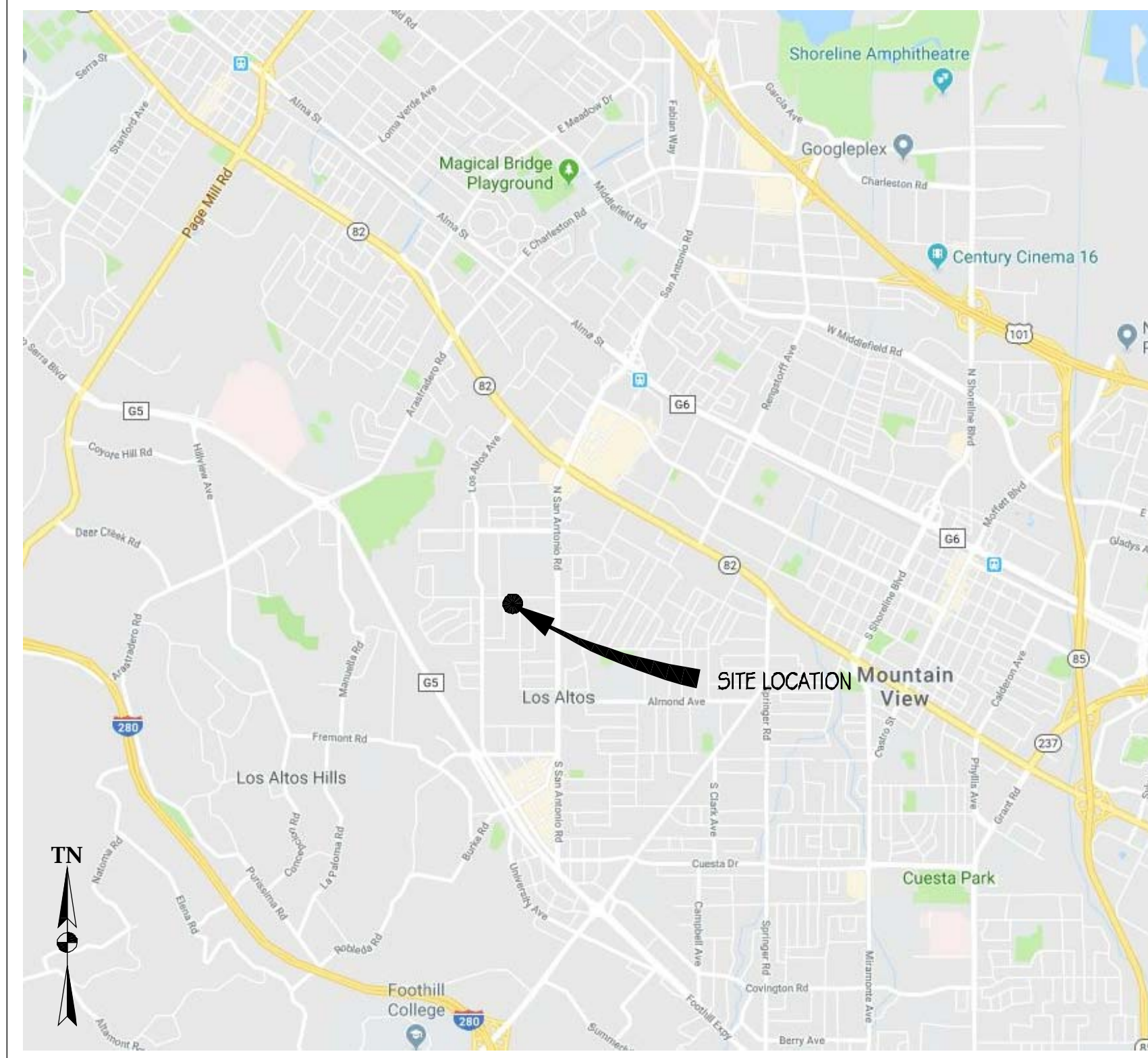
SHEET NUMBER

T-1

SITE INFORMATION

APPLICANT: AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583
 AGENT: SURESITE
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614
 APN: ADJCT TO 167-23-079
 SITE ADDRESS: 687 LINDEN AVE
 LOS ALTOS, CA 94022
 COUNTY: SANTA CLARA
 LATITUDE: 37° 23' 37.57" N (37.393769) NAD 83
 LONGITUDE: 122° 07' 09.22" W (-122.119228) NAD 83
 GROUND ELEVATION: ± 114.7' AMSL
 ZONING: PUBLIC ROW
 ZONING JURISDICTION: LOS ALTOS
 PG&E SAP ID: 100544568
 STREET CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT:
 SURESITE
 2033 GATEWAY PLACE, 6TH FLOOR
 SAN JOSE, CA 95110
 (949) 278-2962
 L.MEINERS@SURE-SITE.COM
 PROJECT MANAGERS:
 CHRIS JOHNSON
 ERICSSON
 6140 STONERIDGE MALL RD, SUITE 350
 PLEASANTON, CA 94588
 (408) 796-8443
 CHRISTOPHER.JOHNSON@ERICSSON.COM
 ARCHITECT/ENGINEER OF RECORD:
 BRET McCOMB
 PRECISION DESIGN & DRAFTING, INC
 11768 ATWOOD ROAD, SUITE #20
 AUBURN, CA 95603
 (530) 823-6546
 BRET@PDND.COM
 CONSTRUCTION MANAGER:
 DELBERT BUTCHER
 ERICSSON
 6140 STONERIDGE MALL ROAD, SUITE 350
 PLEASANTON, CA 94588
 (720) 317-7282

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON AN (E) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.
 SCOPE OF WORK:
 1. INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRUS-4415 & (1) RRUS-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2-0GT CYLINDRICAL ANTENNA.
 2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
 3. UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
 4. FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

DRAWING INDEX

| SHEET NO: | SHEET TITLE |
|-----------|--|
| T-1 | TITLE SHEET |
| T-2 | GENERAL NOTES, LEGEND, & ABBREVIATIONS |
| A-1 | SITE PLAN |
| A-2 | EQUIPMENT PLAN & ANTENNA PLANS |
| A-3 | ELEVATIONS |
| A-4 | ELEVATIONS |
| A-5 | DETAILS |
| A-6 | DETAILS |
| E-1 | SINGLE-LINE DIAGRAM & DETAILS |
| E-2 | GROUNDING DIAGRAMS |
| TR-1 | TRAFFIC CONTROL PLAN |

CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
- 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 - 2016 CALIFORNIA BUILDING CODE
 - 2016 CALIFORNIA ELECTRICAL CODE
 - 2016 CALIFORNIA MECHANICAL CODE
 - 2016 CALIFORNIA PLUMBING CODE
 - 2016 CALIFORNIA FIRE CODE
 - LOCAL BUILDING CODES
 - CITY/COUNTY ORDINANCES
 - ANSI/AIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
 TO: 687 LINDEN AVE, LOS ALTOS, CA 94022

- HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
- TURN RIGHT ONTO SUNSET DR 0.1 MI
- USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
- USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
- MERGE ONTO I-680 S 3.9 MI
- CONTINUE STRAIGHT TO STAY ON I-680 S 17.5 MI
- TAKE EXIT 8 TO MERGE ONTO CA-237 W/E CALAVERAS BLVD TOWARD CENTRAL MILPITAS 0.5 MI
- MERGE ONTO CA-237 W/E CALAVERAS BLVD 1.8 MI
- USE THE RIGHT 2 LANES TO TURN SLIGHTLY RIGHT 0.2 MI
- TAKE THE RAMP ONTO CA-237 W 0.3 MI
- MERGE ONTO CA-237 W 8.2 MI
- KEEP LEFT TO CONTINUE ON CA-237 W SOUTHBAY FWY 0.5 MI
- TURN RIGHT ONTO EL CAMINO REAL 2.3 MI
- TURN LEFT ONTO JORDAN AVE 0.5 MI
- TURN LEFT ONTO N SAN ANTONIO RD 0.2 MI
- TURN RIGHT ONTO PINE LN 0.3 MI
- TURN RIGHT ONTO LINDEN AVE 0.1 MI

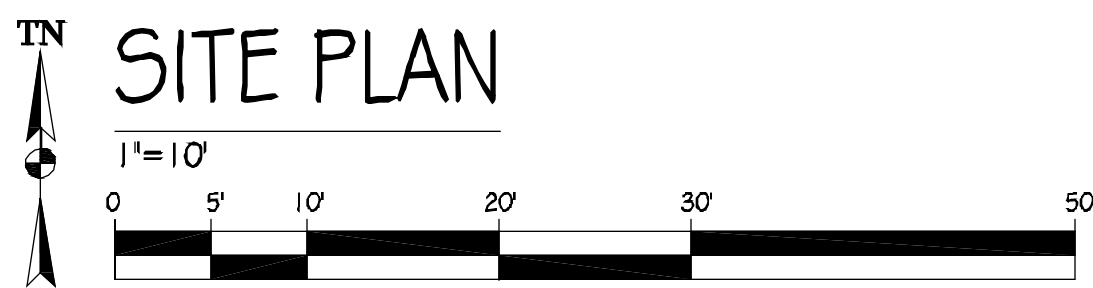
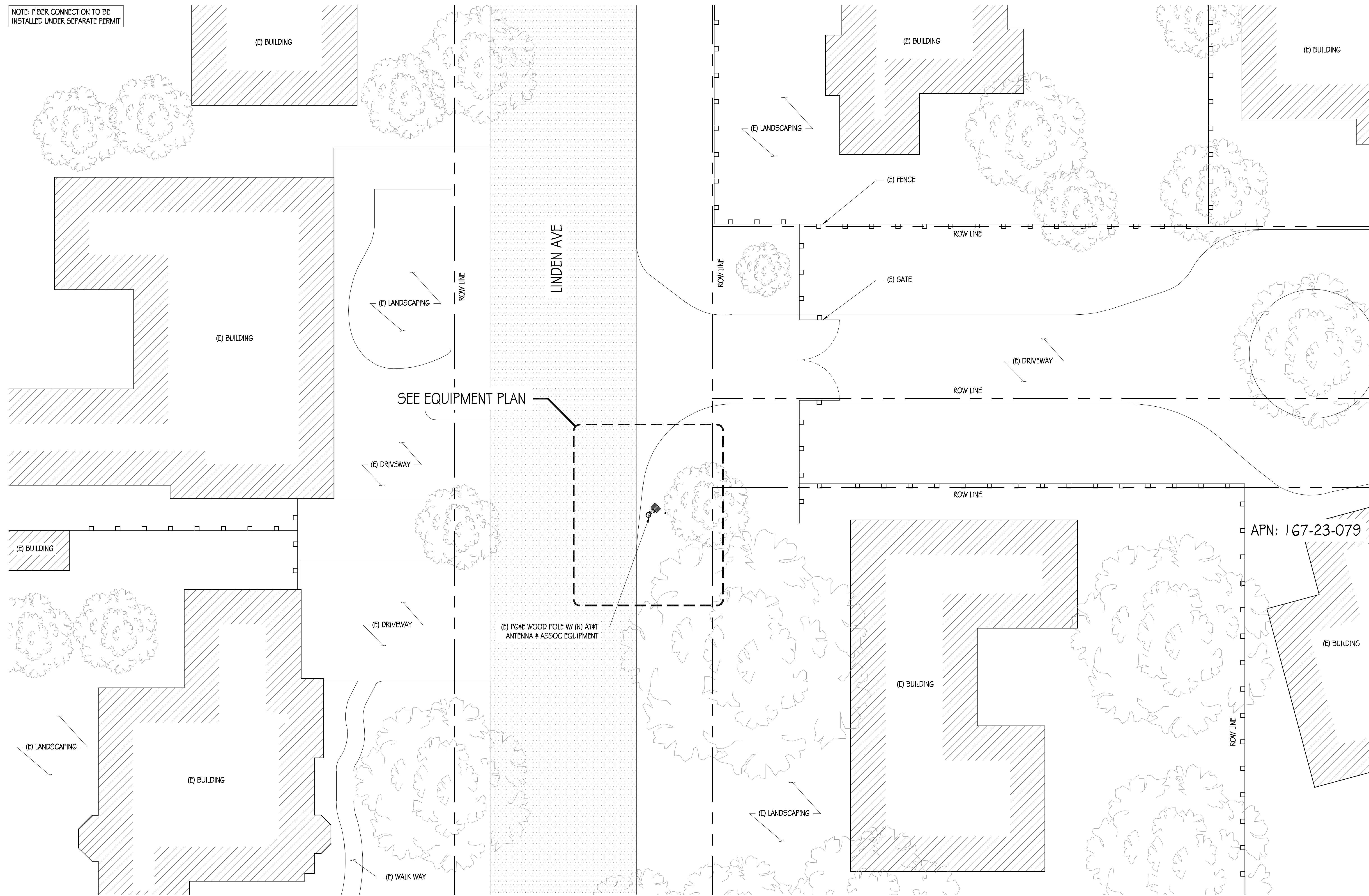
END AT: 687 LINDEN AVE, LOS ALTOS, CA 94022
 ESTIMATED TIME: 1 HR 17 MINS ESTIMATED DISTANCE: 42 MI



ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



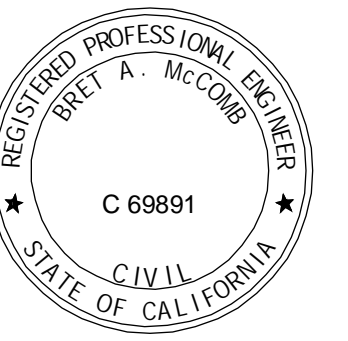
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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APN: 167-23-079

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687 LINDEN AVE
LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/20/18 | CD 90% |
| | 07/25/19 | CD 100% |
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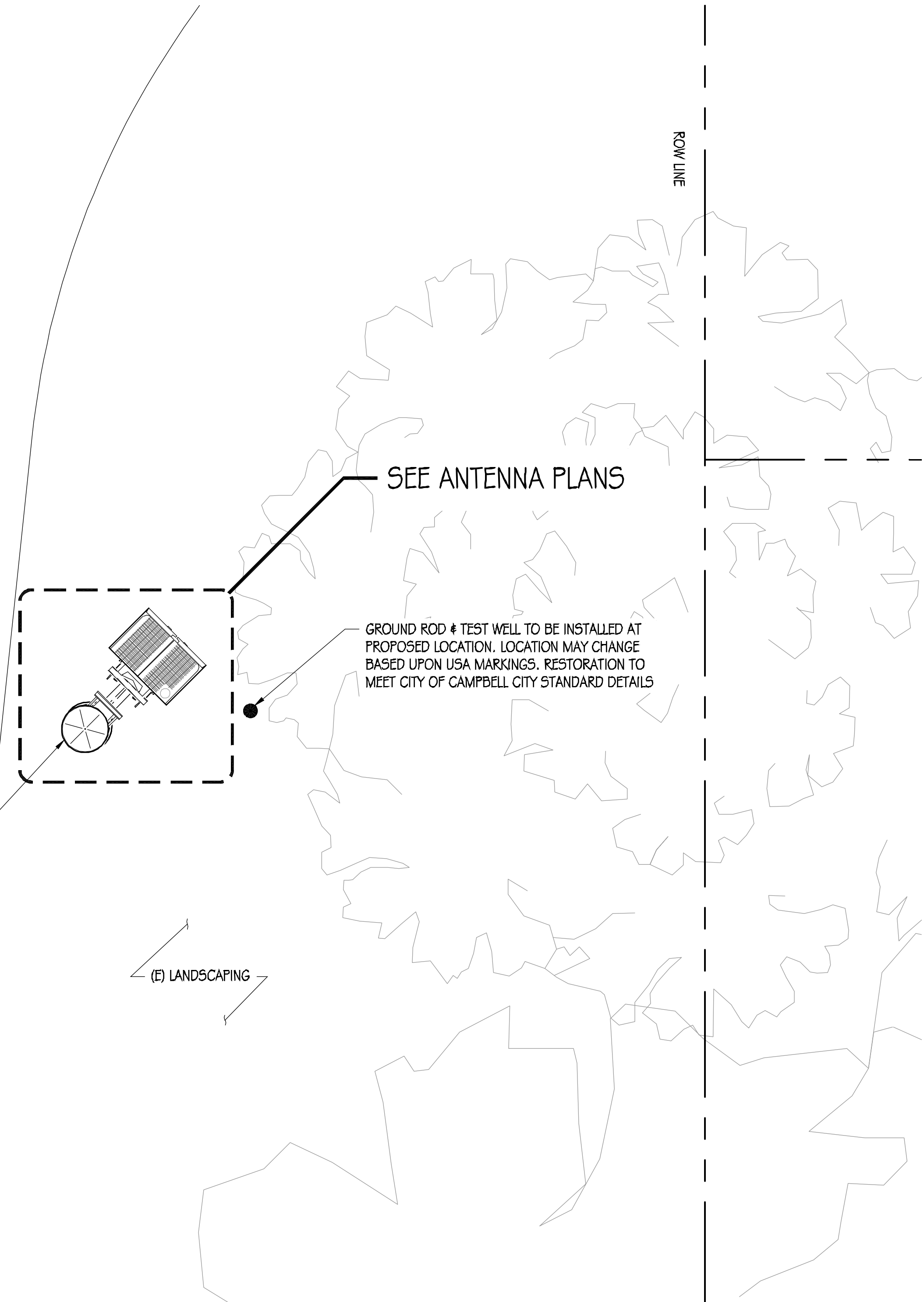
DRAWN BY: T.J. / I.B.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

SHEET TITLE:
SITE PLAN
SHEET NUMBER:

A-1

NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.

LINDEN AVE

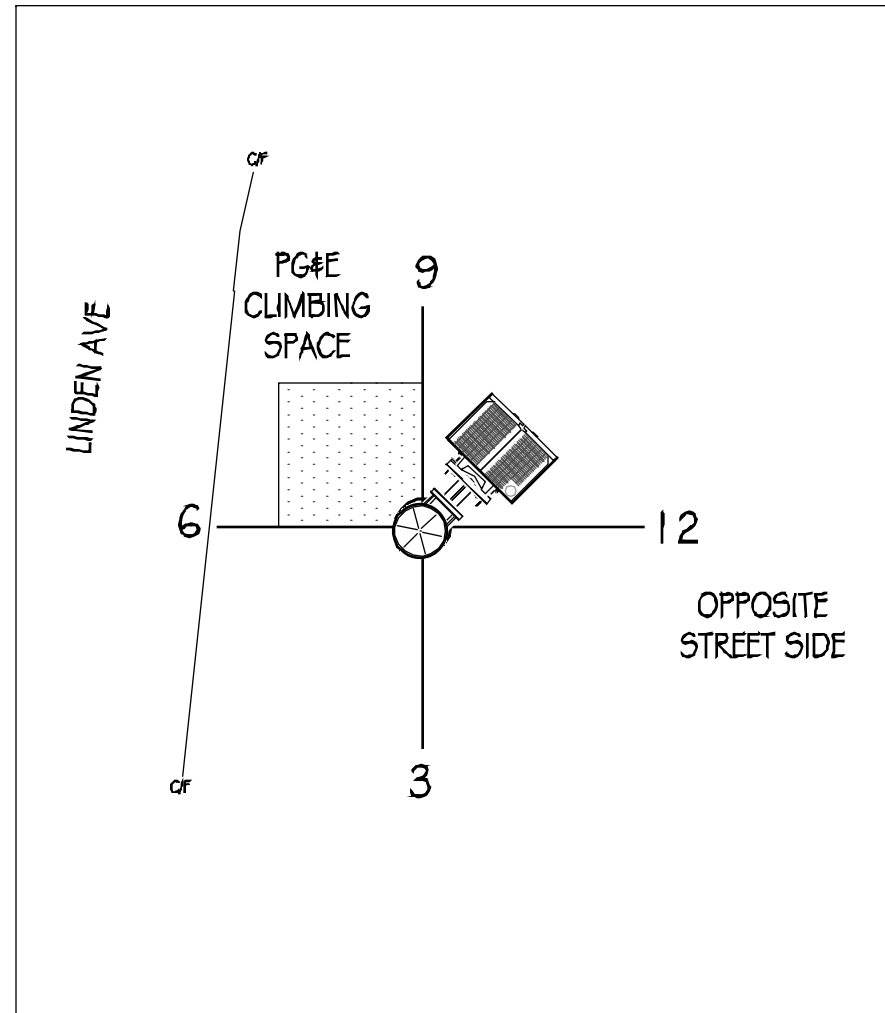


(E) PG&E WOOD POLE W/ (N) AT&T ANTENNA & ASSOC EQUIPMENT

SEE ANTENNA PLANS

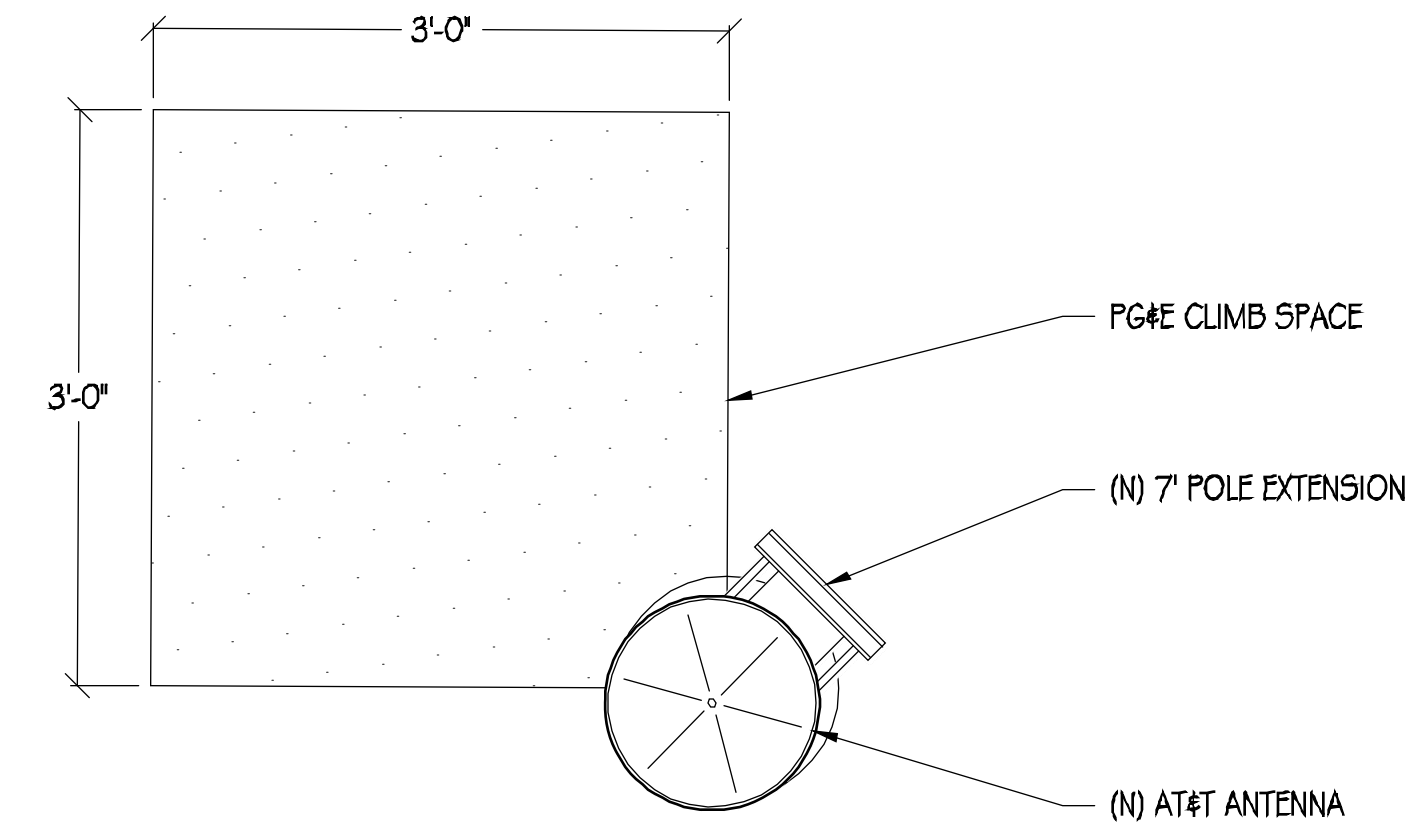
GROUND ROD & TEST WELL TO BE INSTALLED AT PROPOSED LOCATION. LOCATION MAY CHANGE BASED UPON USA MARKINGS. RESTORATION TO MEET CITY OF CAMPBELL CITY STANDARD DETAILS

(E) LANDSCAPING

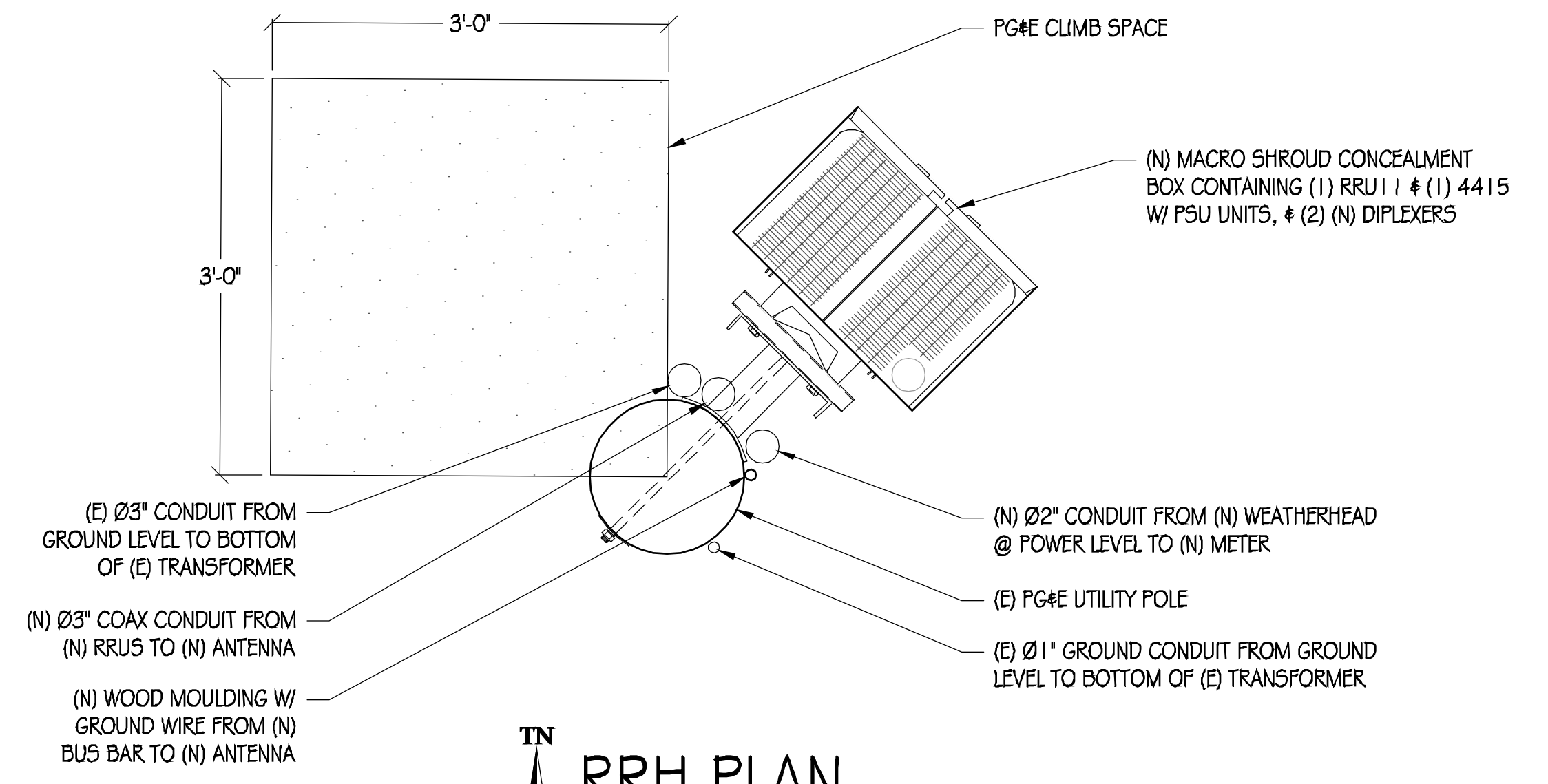


EQUIPMENT PLAN
1/2" = 1'

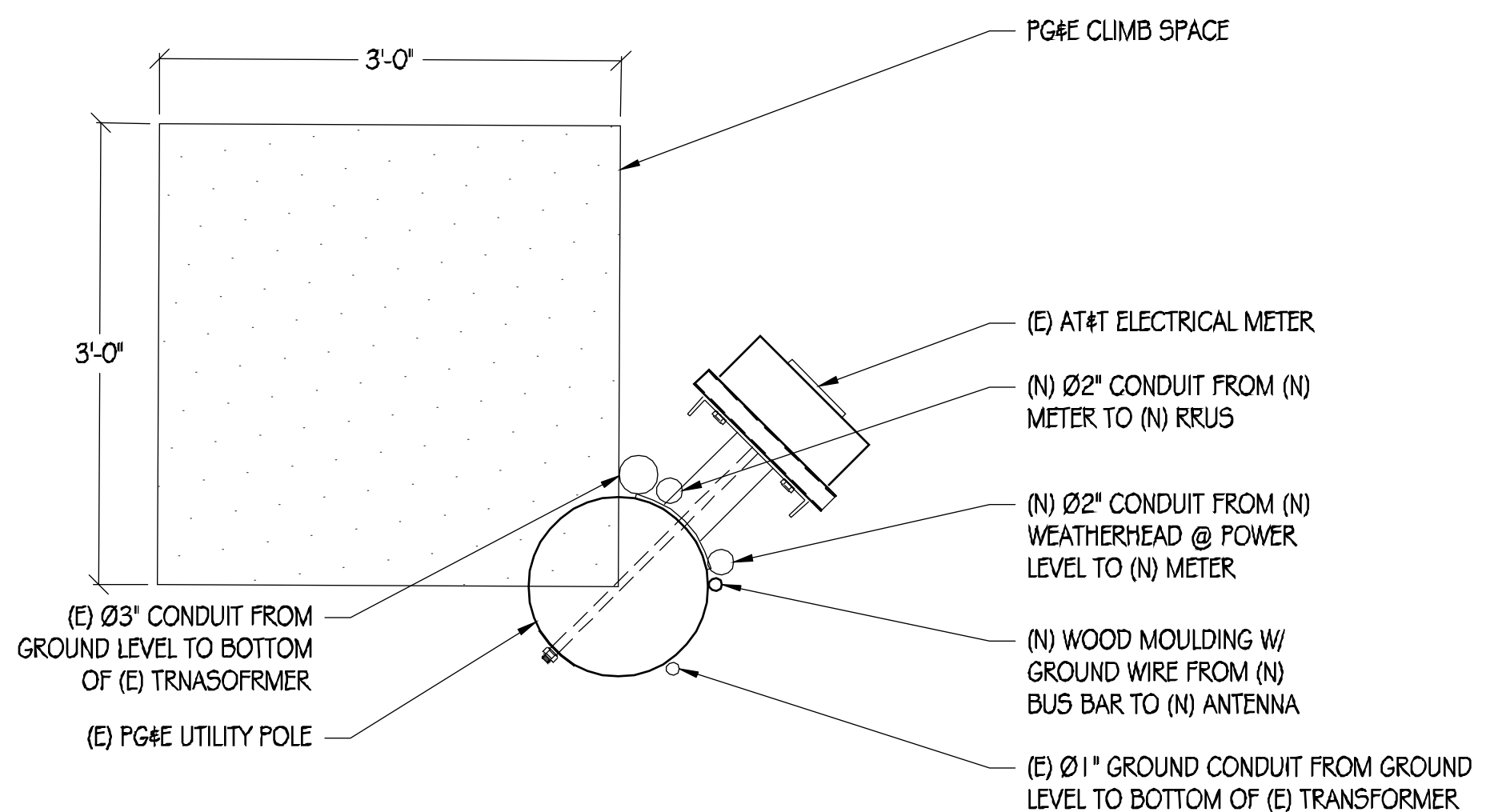
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



ANTENNA PLAN
1" = 1'



RRH PLAN
1" = 1'



ELECTRICAL METER PLAN
1" = 1'



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SAN RAMON, CA 94583



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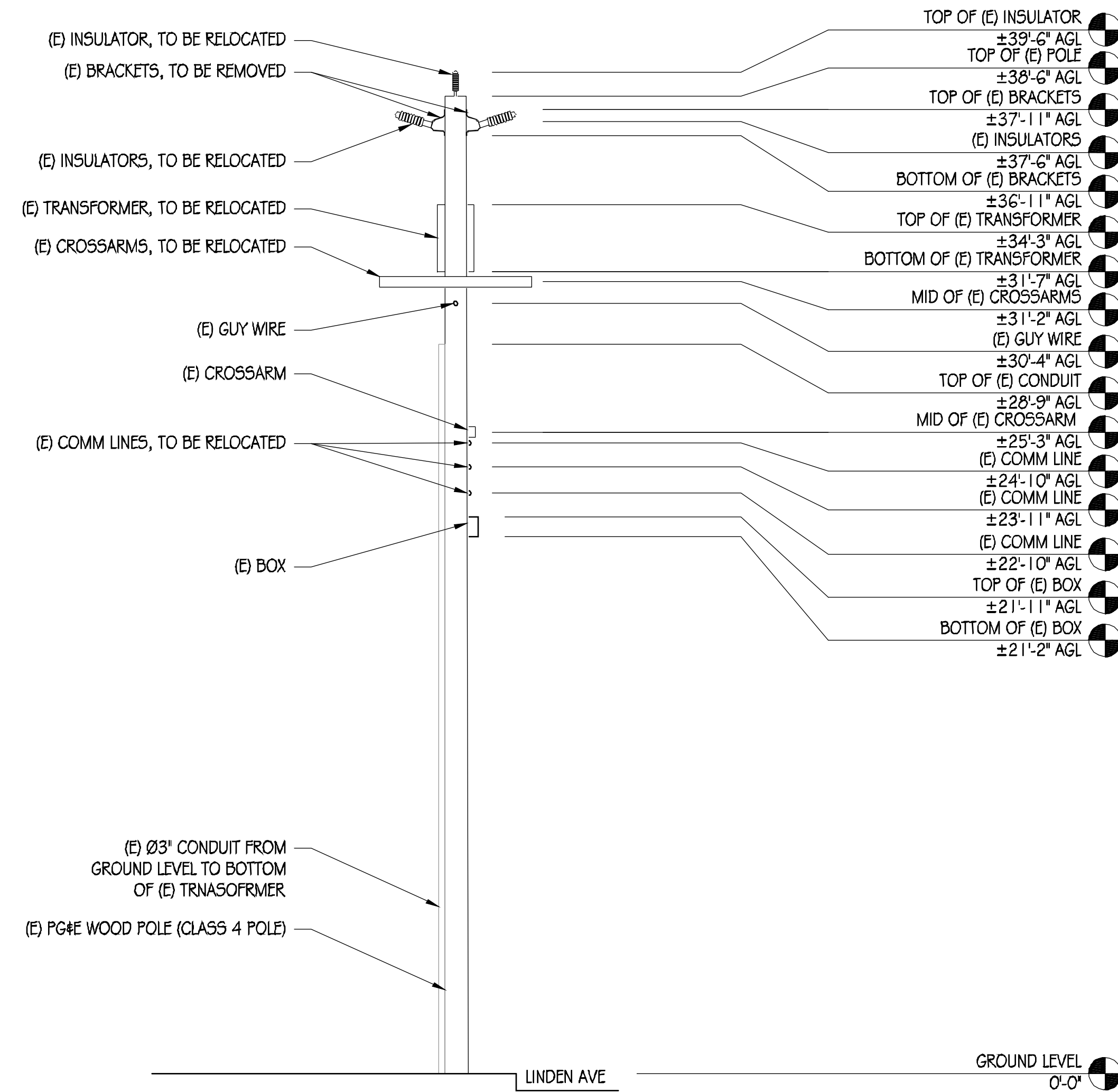
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CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19
SHEET TITLE:

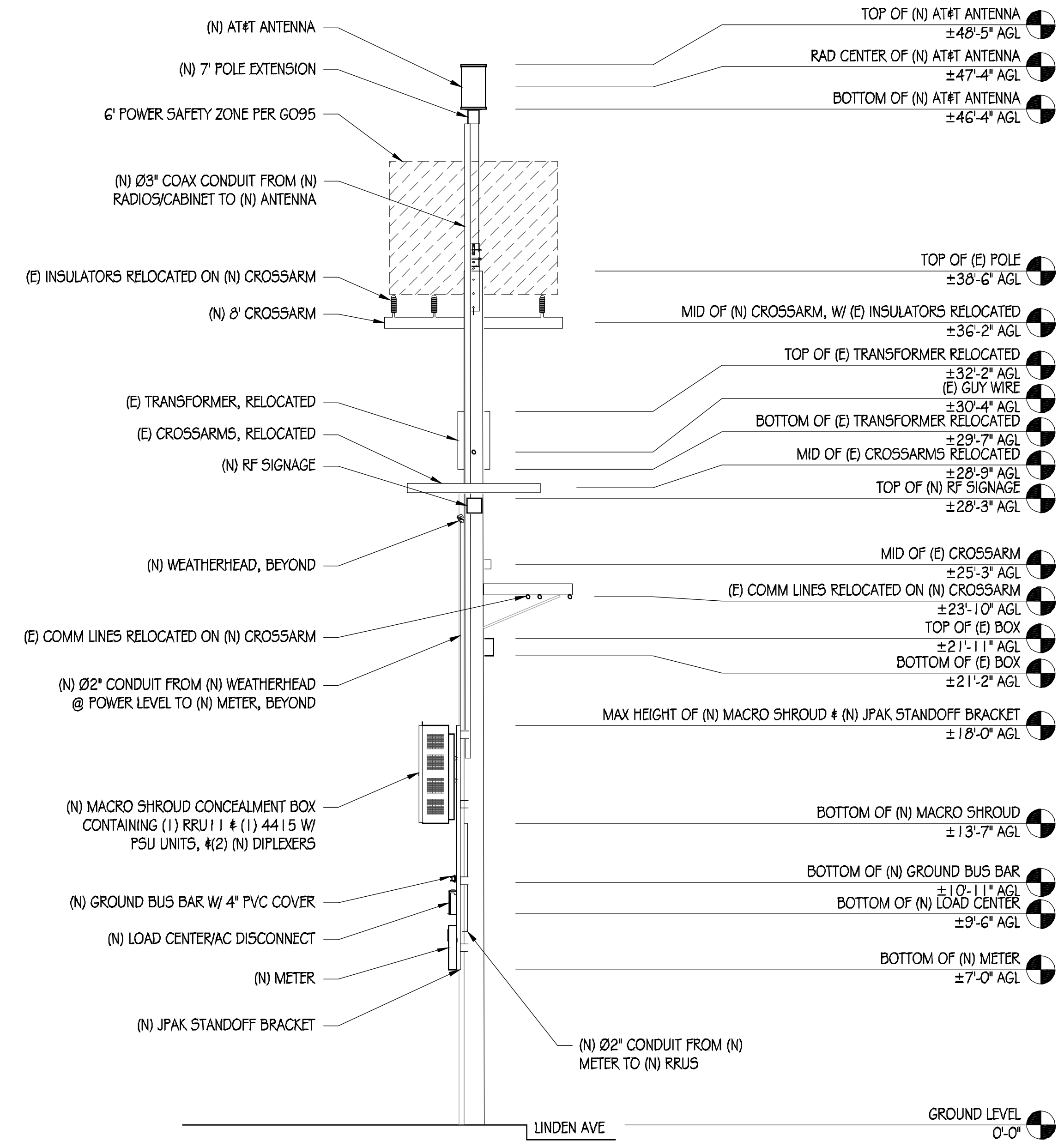
EQUIPMENT PLAN #
ANTENNA PLANS
SHEET NUMBER
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

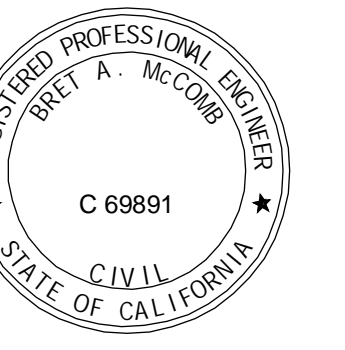


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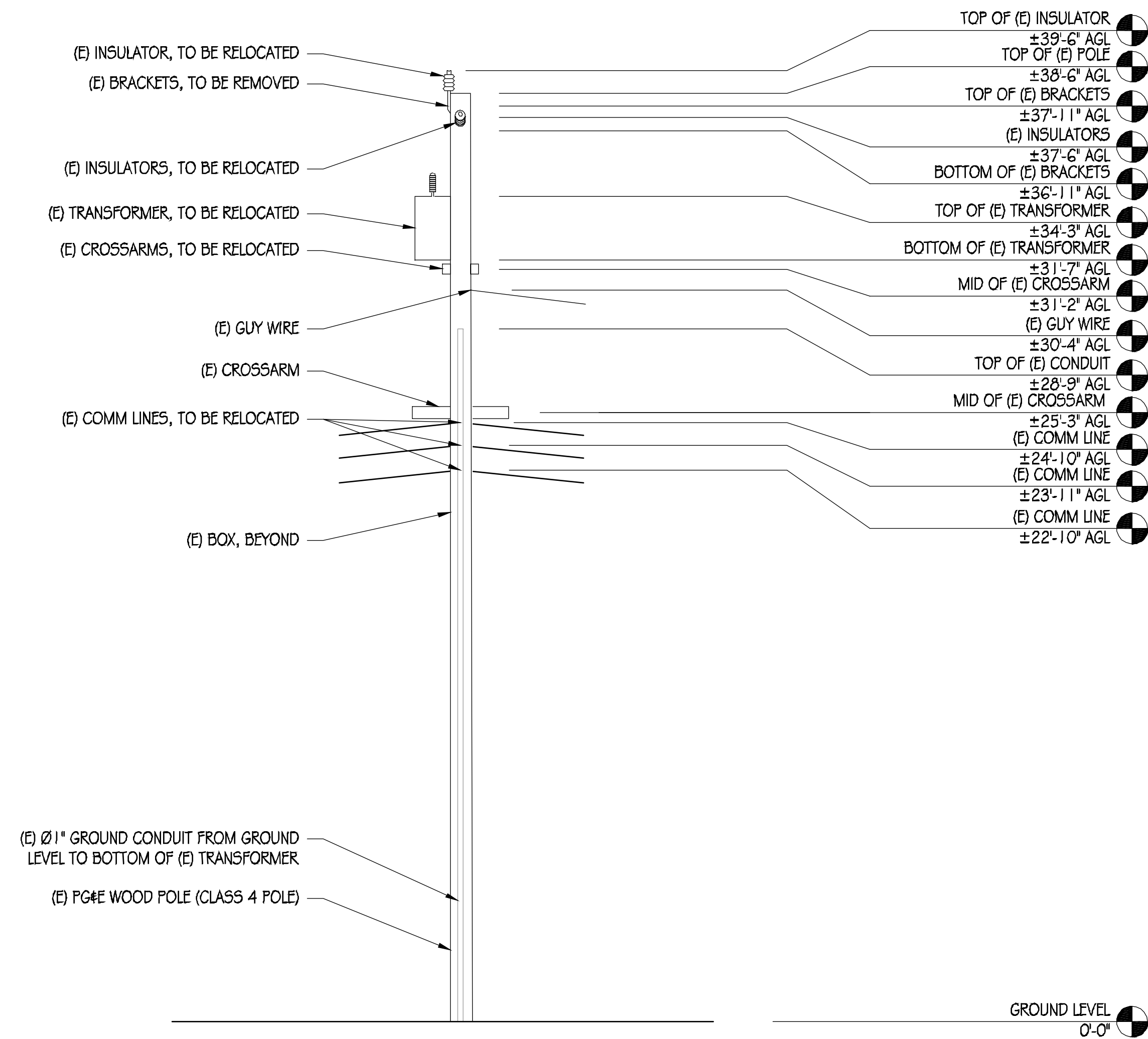
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ELEVATIONS

SHEET NUMBER

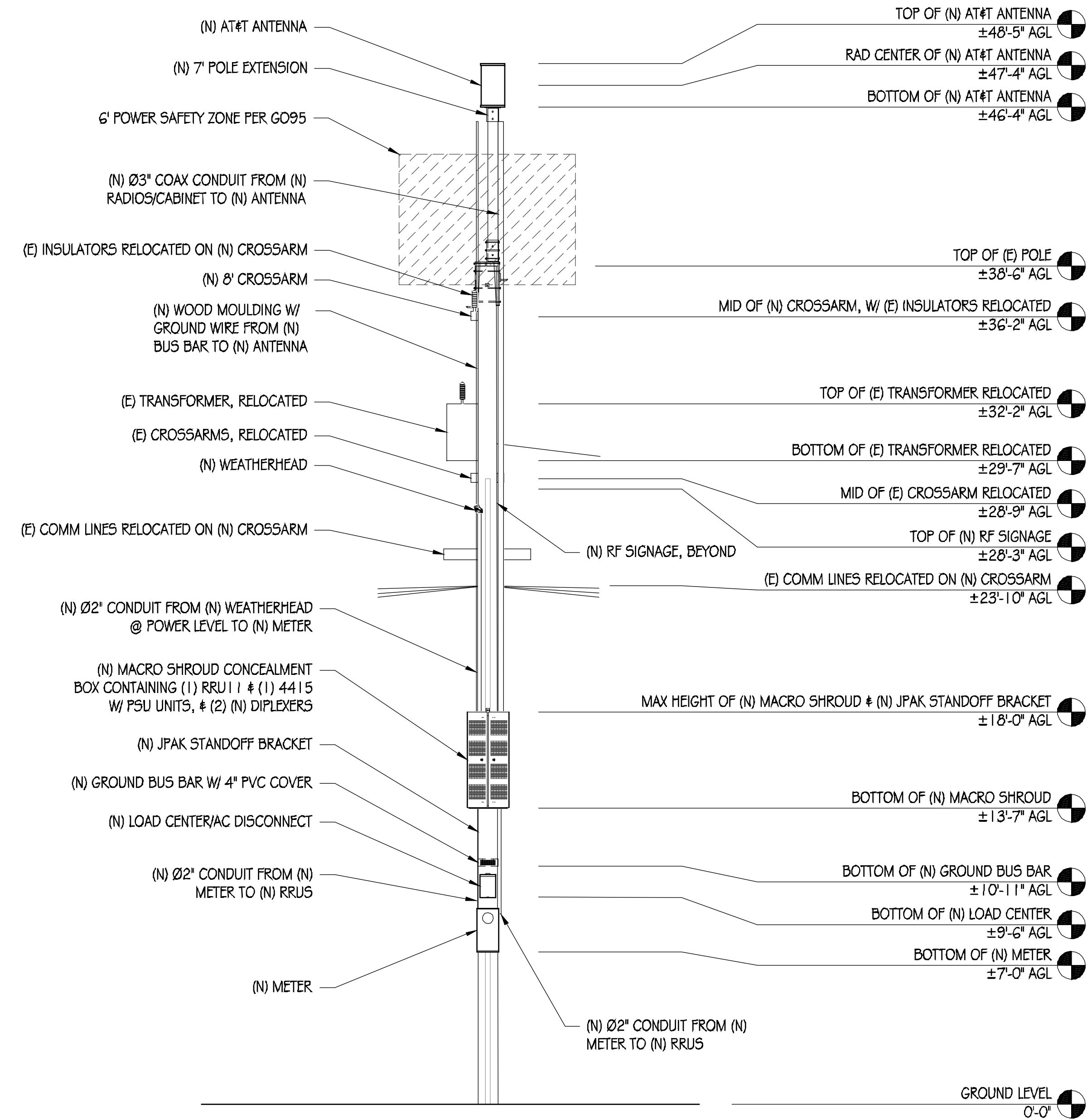
A-3

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING EAST ELEVATION

1/4" = 1'-0"



NEW EAST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



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DATE: 07/25/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

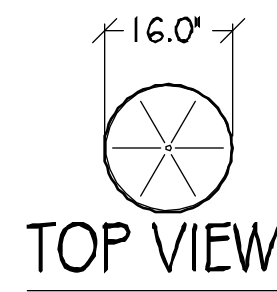
A-4

POLE-TOP EXTENSION NOTES:

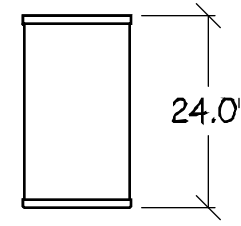
1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT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

KMW FX-OM2L10H2-06T

WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

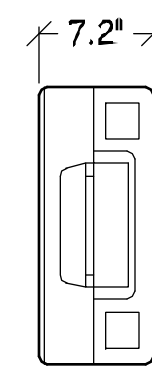


FRONT VIEW

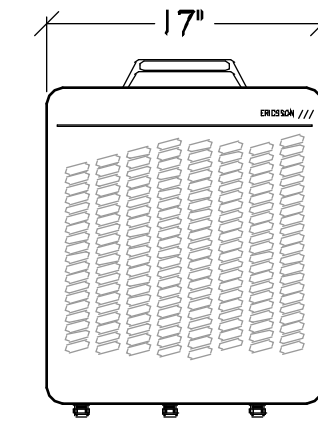
1 ANTENNA
1/2"=1"

ERICSSON RRUS-11

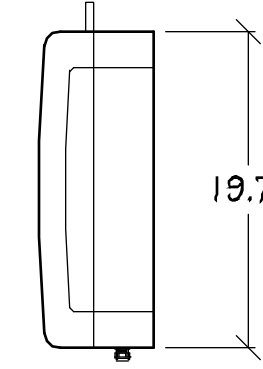
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

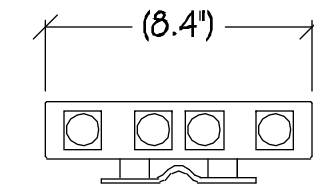


SIDE VIEW

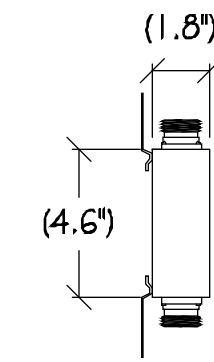
2 RRUS-11 DETAIL
1"=1"

COMMSCOPE CBC1923T-4310/ E11F13P06

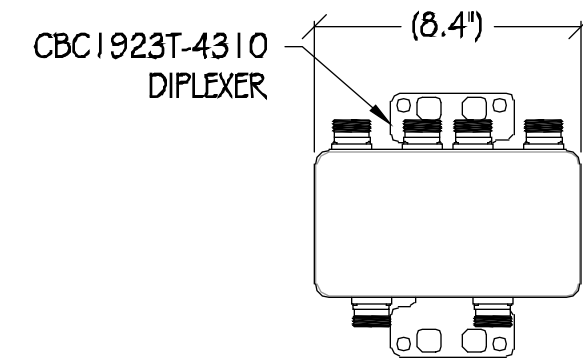
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

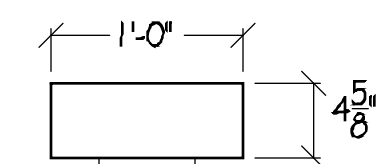


SIDE VIEW

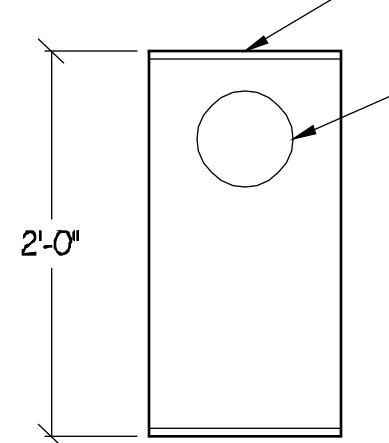


FRONT VIEW

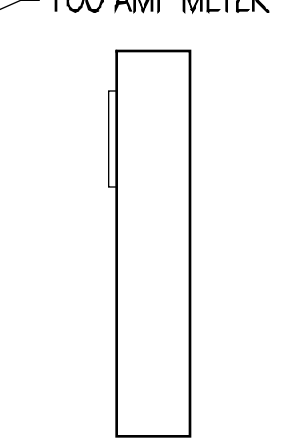
3 DIPLEXER DETAIL
1"=6"



TOP VIEW



FRONT VIEW

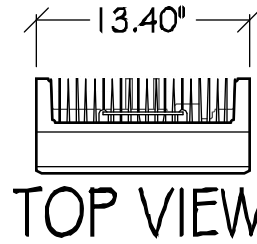


SIDE VIEW

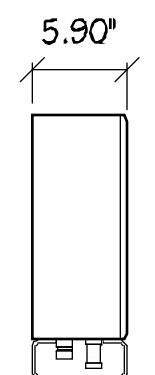
4 METER DETAIL
1"=1"

ERICSSON RRUS-4415

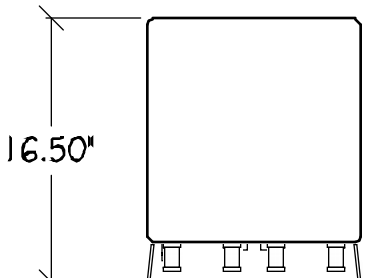
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

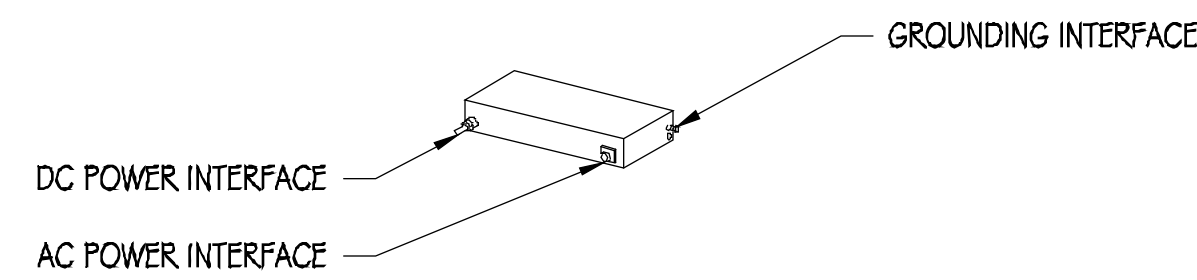


FRONT VIEW

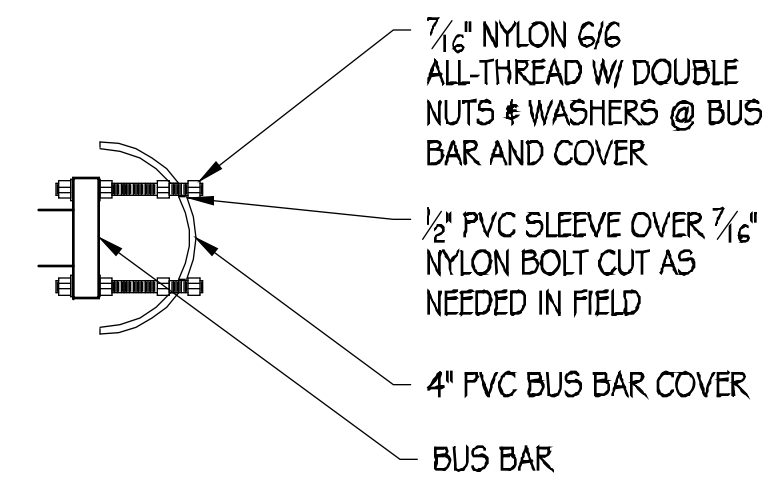
5 RRUS-4415 DETAIL
1"=1"

ERICSSON PSU AC 08

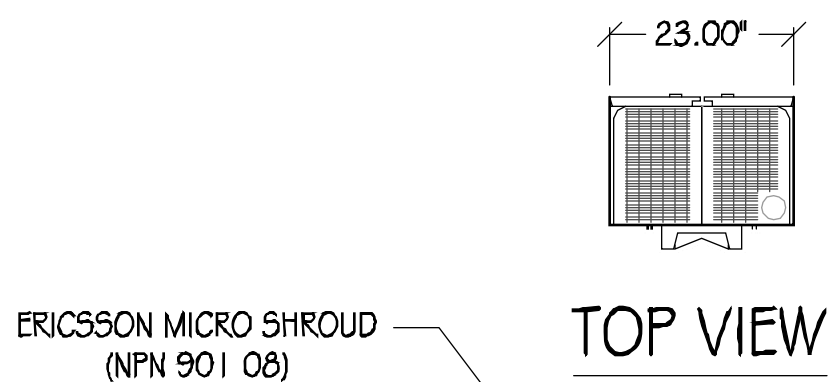
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



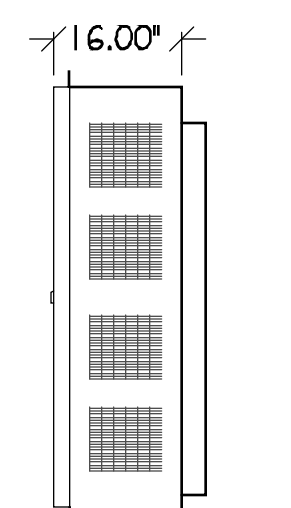
6 AC POWER MODULE
NTS



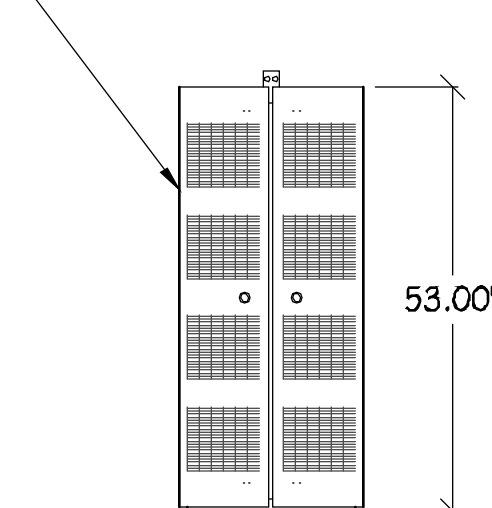
7 BUS BAR COVER
6"=1"



TOP VIEW

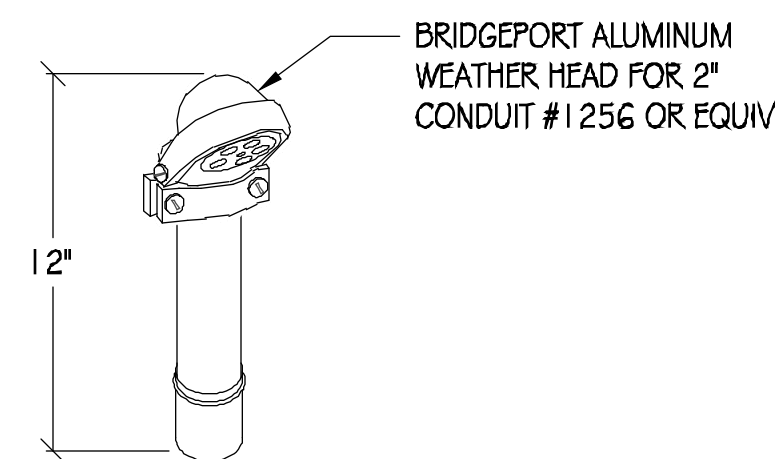


SIDE VIEW



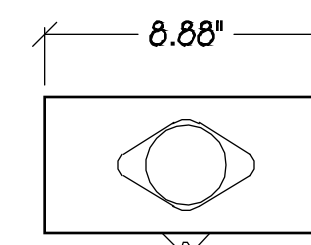
FRONT VIEW

8 MICRO SHROUD CONCEALMENT
1/2"=1"

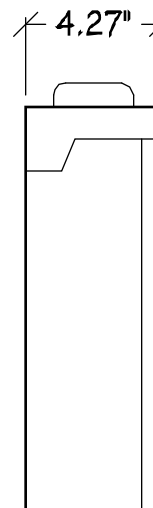


9 WEATHER HEAD
NTS

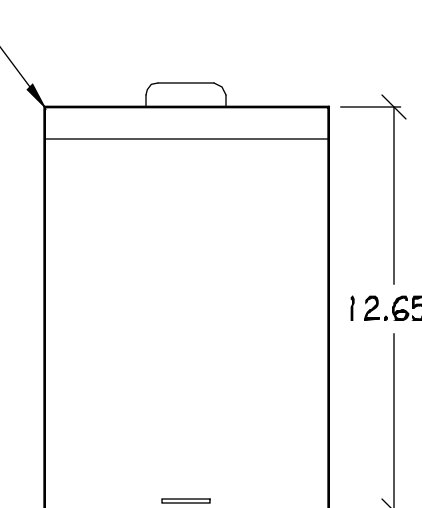
SCHNEIDER ELECTRIC
 Q0612L100RB



TOP VIEW

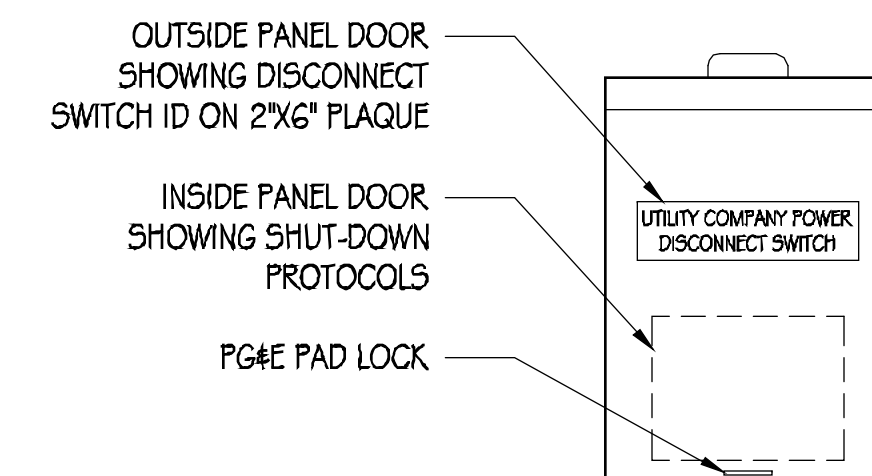


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT
1"=6"



11 DISCONNECT SIGNAGE
3"=1"

SHUTDOWN DISCONNECT

NORMAL SHUT-DOWN PROTOCOLS

1. CALL 800 638-2822 NOC 24HRS PRIOR TO SCHEDULE A SHUT-DOWN DAY AND TIME.
2. GIVE NOC THE NODE NUMBER.
3. ON SCHEDULE DAY OF SHUT-DOWN, PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
4. CALL NOC WHEN WORK IS COMPLETED.

EMERGENCY SHUT-DOWN PROTOCOLS

1. CALL 800 638-2822 NOC.
2. GIVE NOC THE NODE NUMBER.
3. PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
4. CALL NOC WHEN THE WORK IS COMPLETED.

SHUT-DOWN PROTOCOL ON 9\"/>



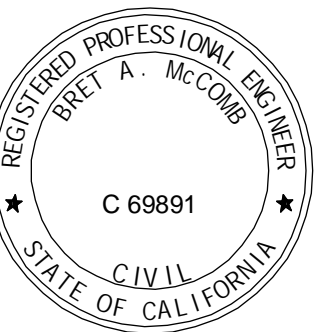
AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



36 DECEUTIVE PARK, SUITE 210
 IRVINE, CA 92614

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 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/25/19

SHEET TITLE:

DETAILS

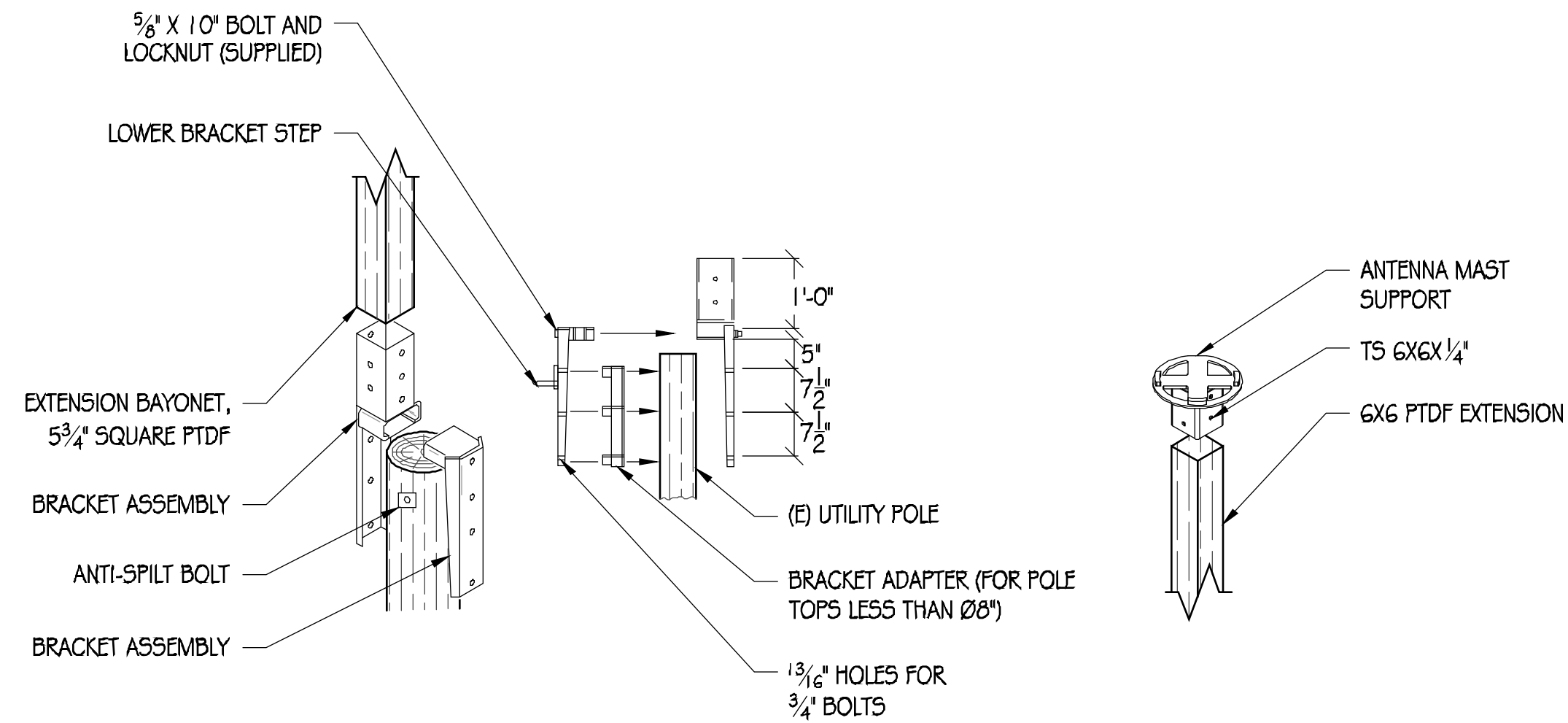
SHEET NUMBER

A-5

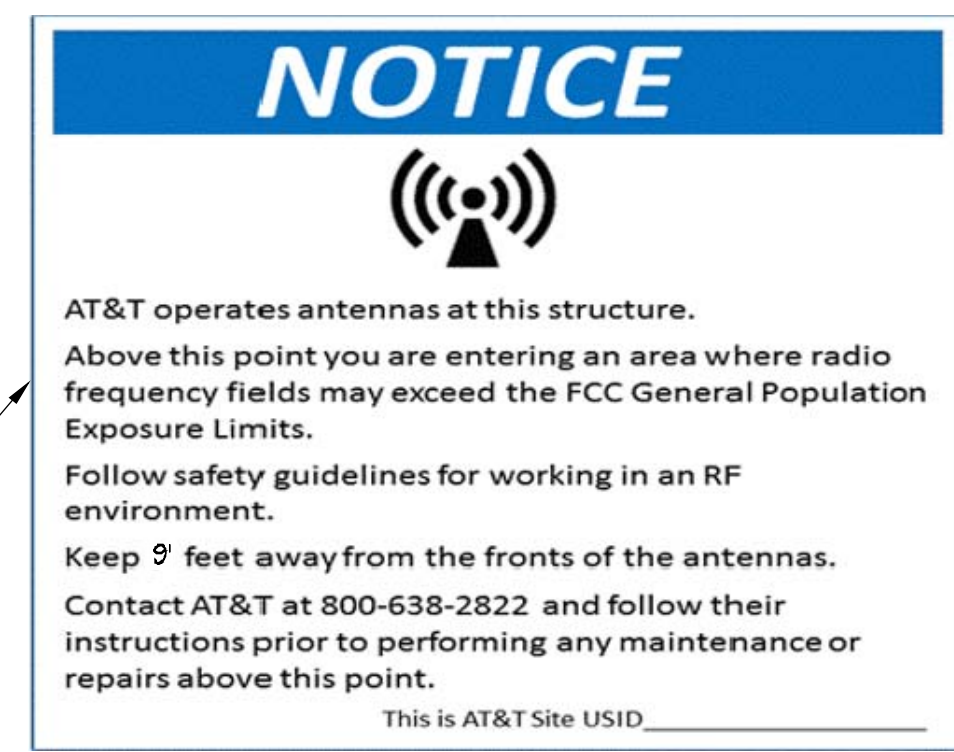
NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT

STRUCTURAL STEEL NOTES:

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS5) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



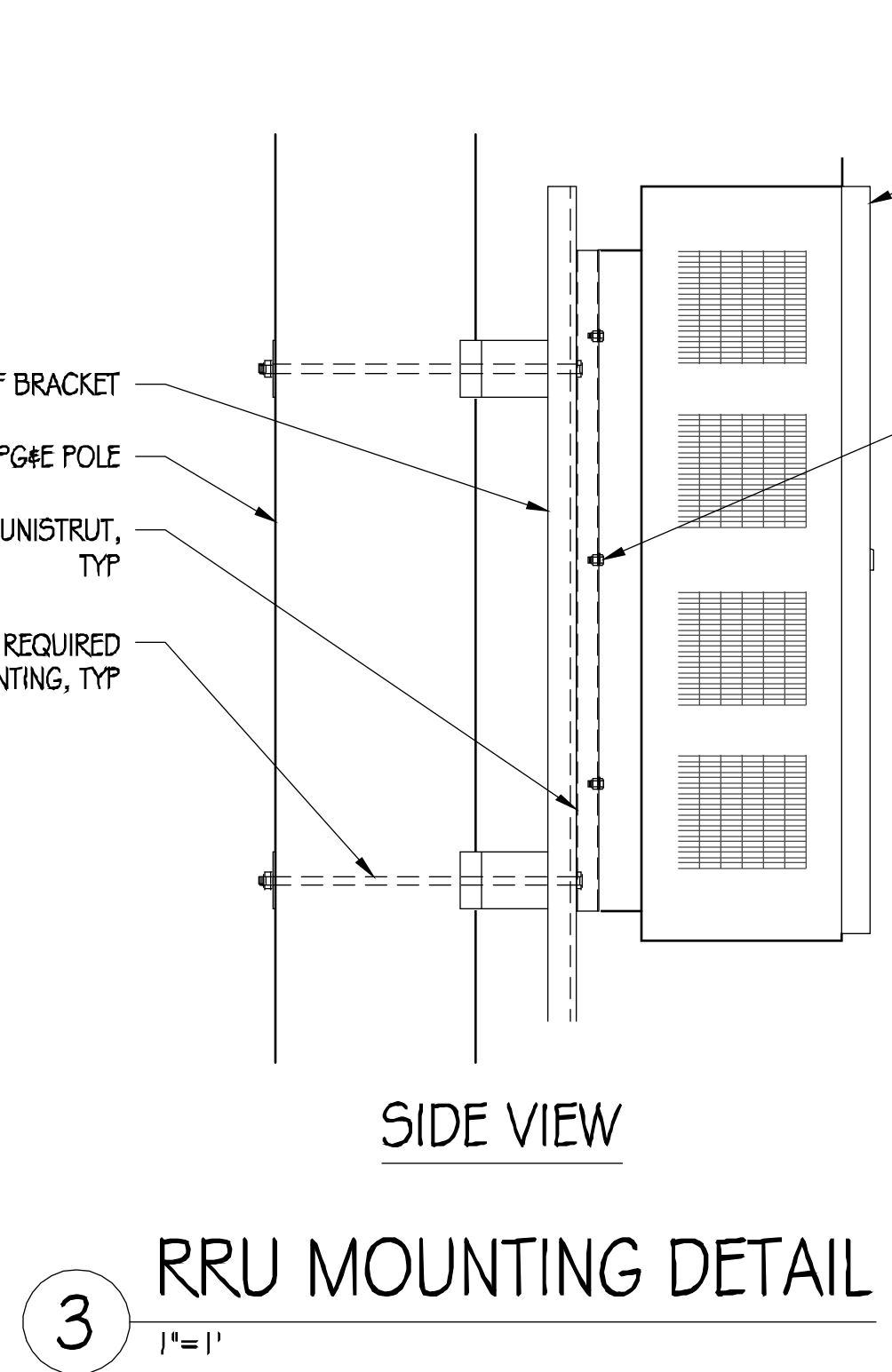
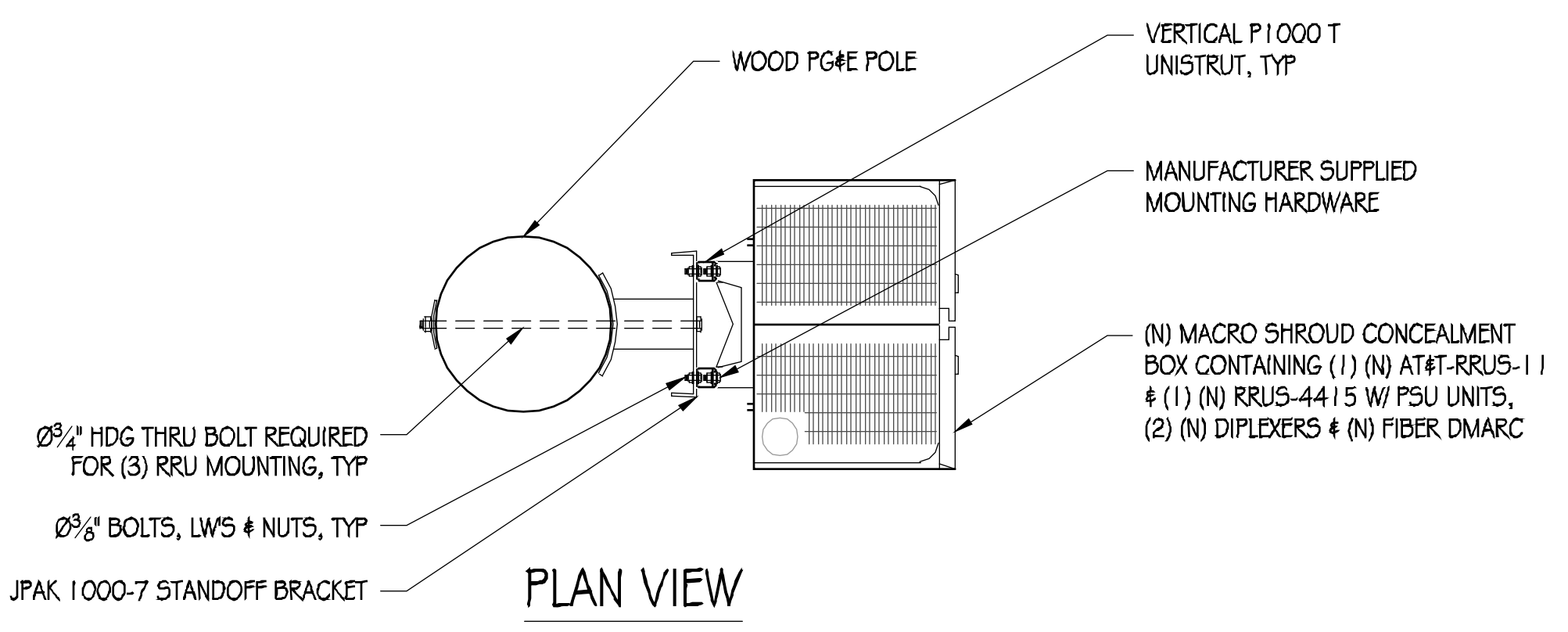
1 POLE TOP EXTENSION ASSEMBLY
1/2" = 1'



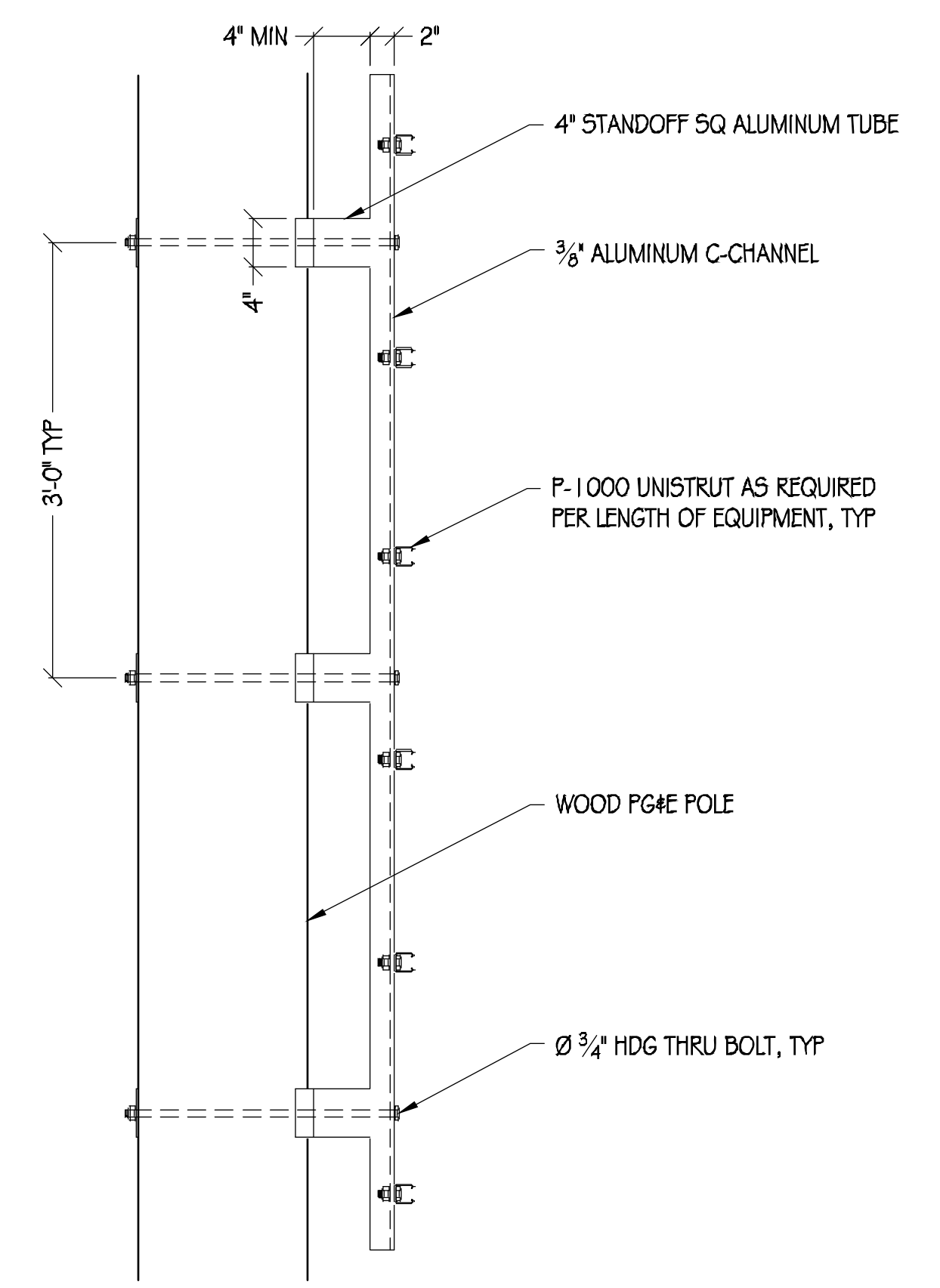
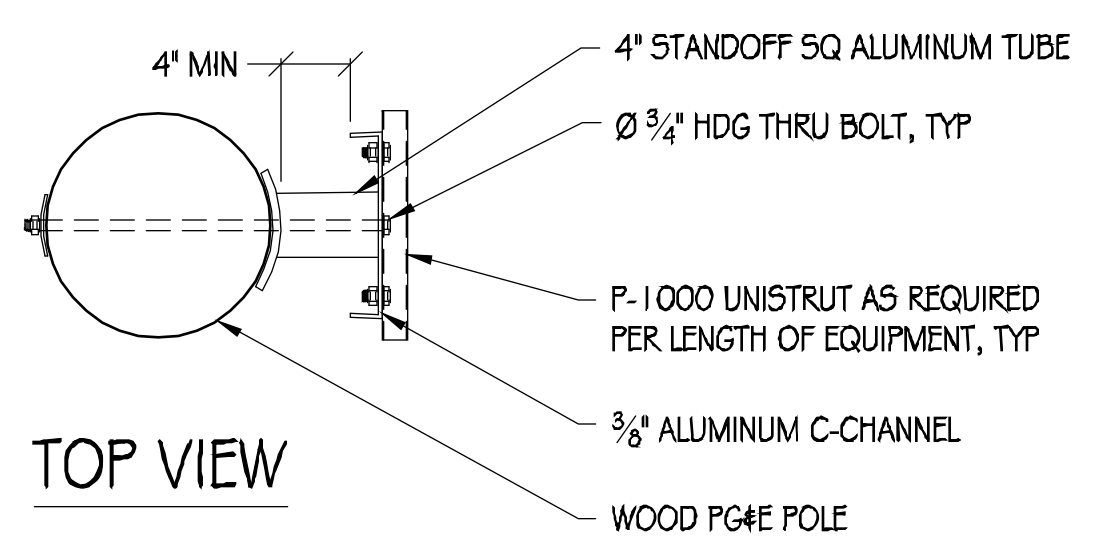
12.25" X 12.25" NOTICE DECAL BLUE DECAL

2 NOTICE SIGNAGE
NTS

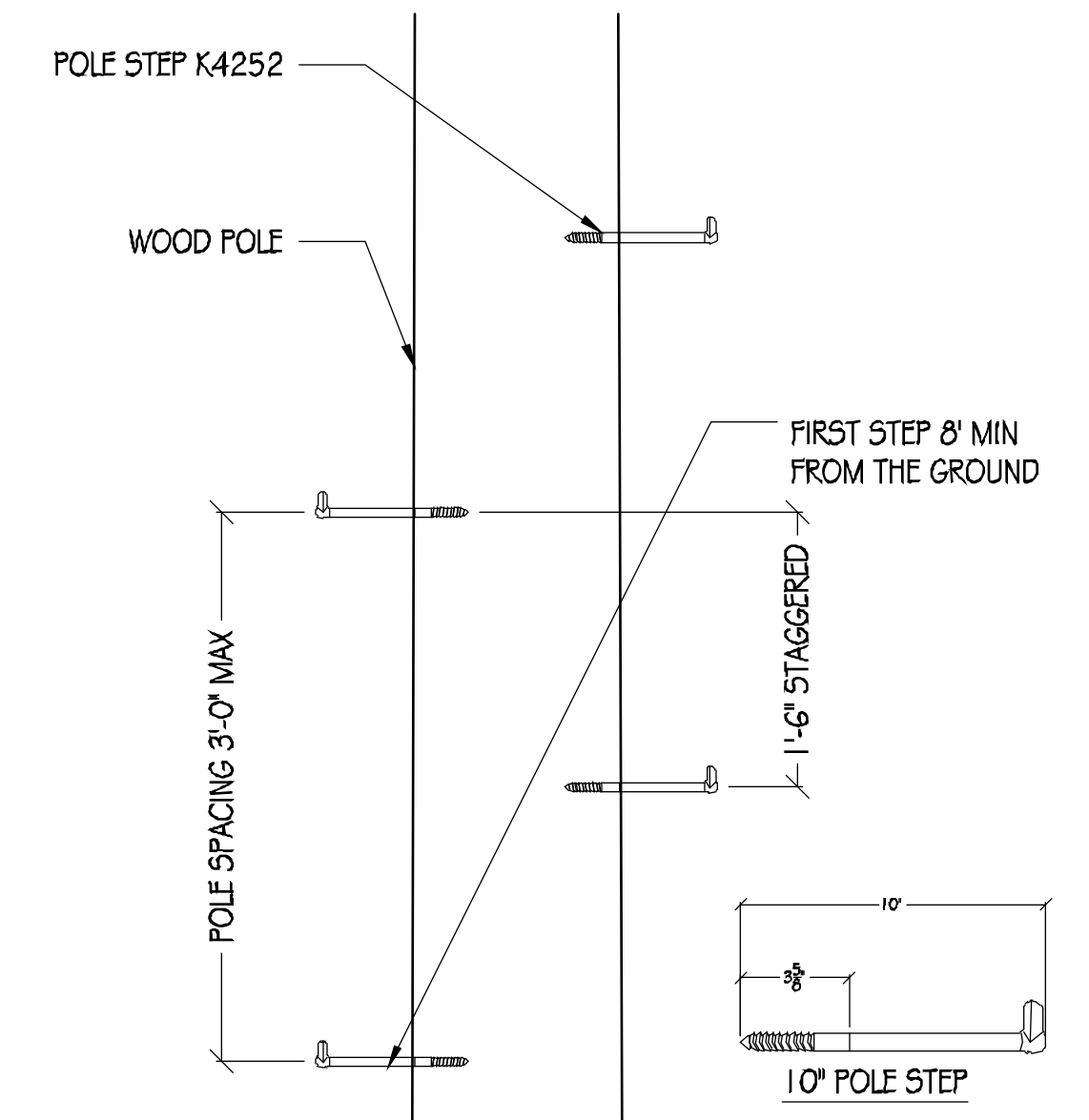
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
 - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA



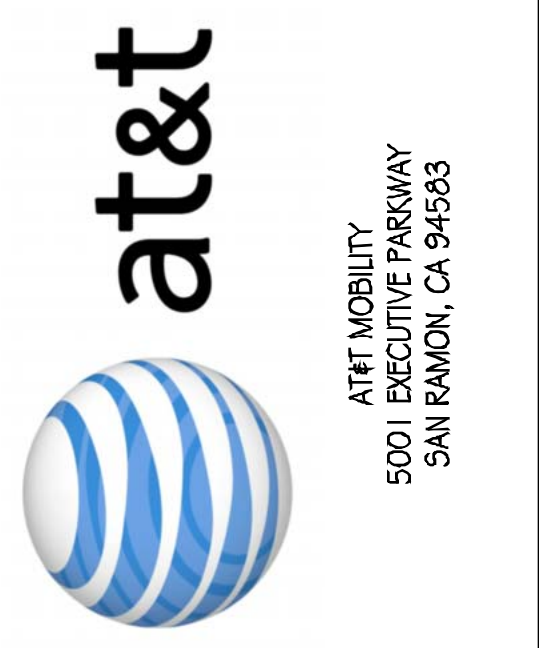
3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



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| | 07/25/19 | CD 100% |

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CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/25/19

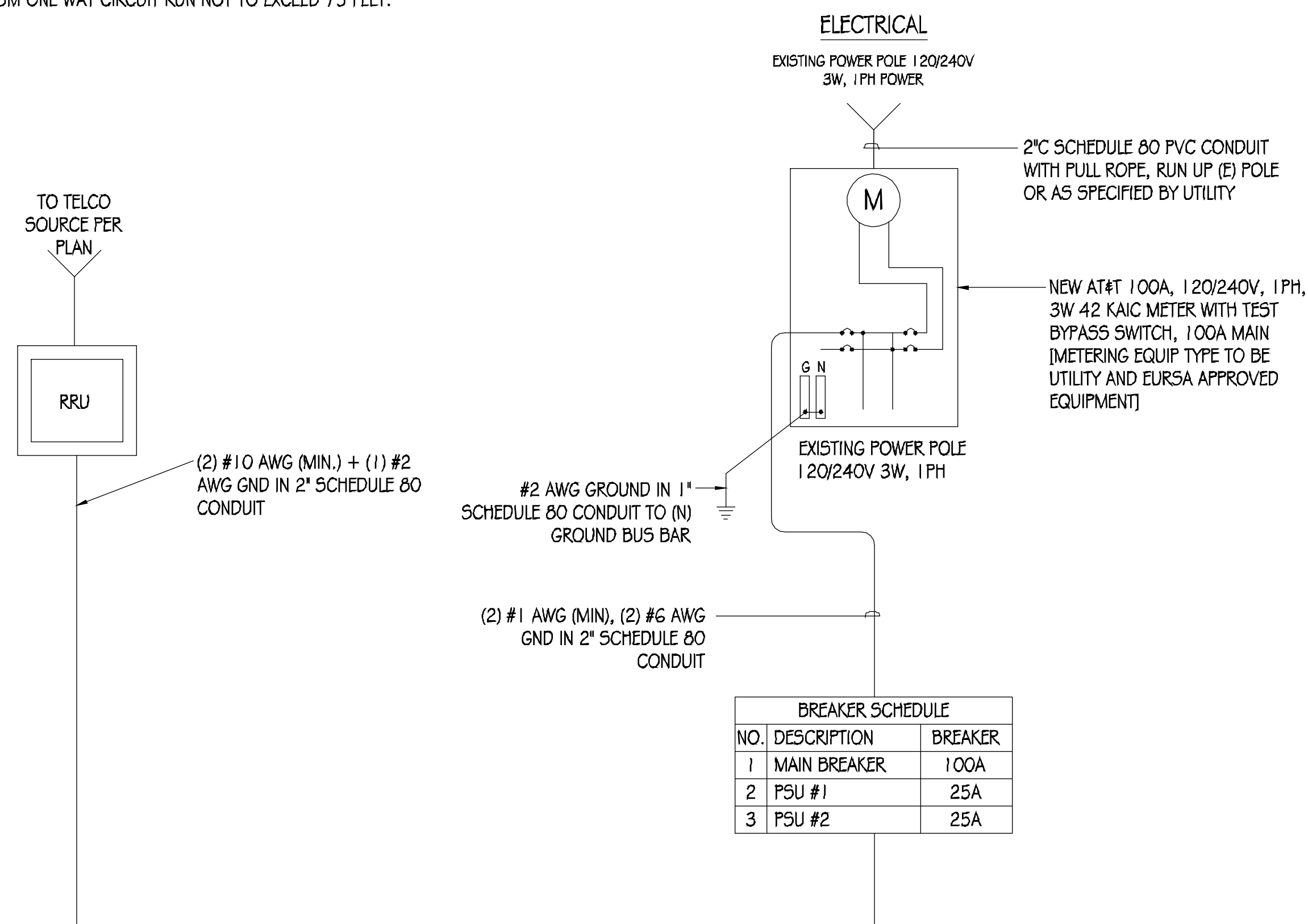
SHEET TITLE:
DETAILS
SHEET NUMBER
A-6

GENERAL ELECTRICAL NOTES:

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

POWER AND TELCO NOTES:

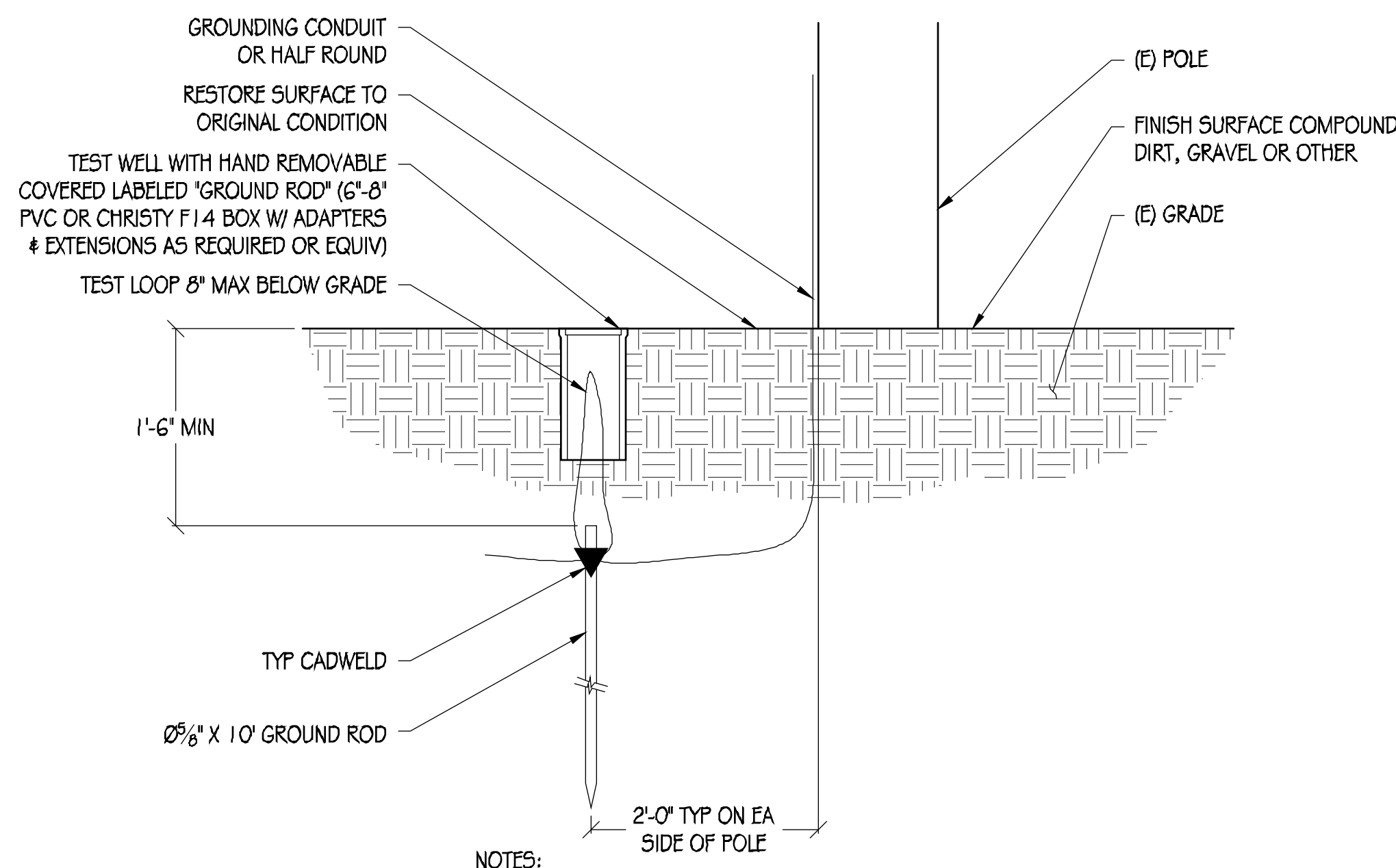
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



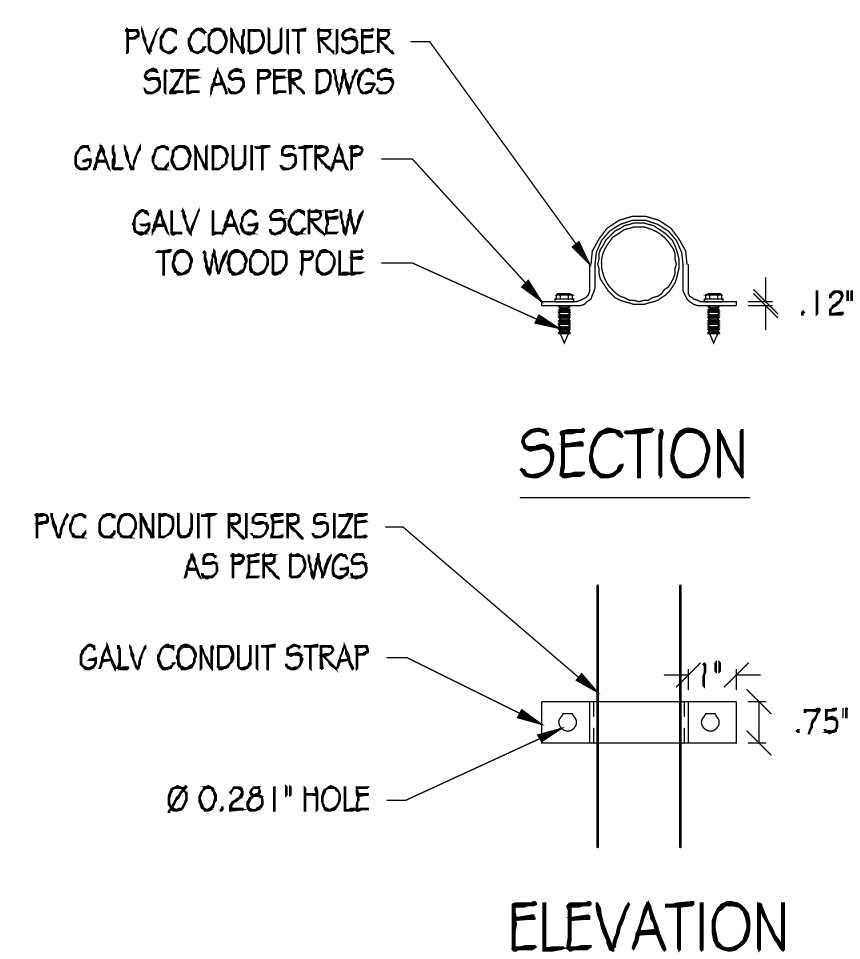
SINGLE-LINE DIAGRAM

LOAD SCHEDULE

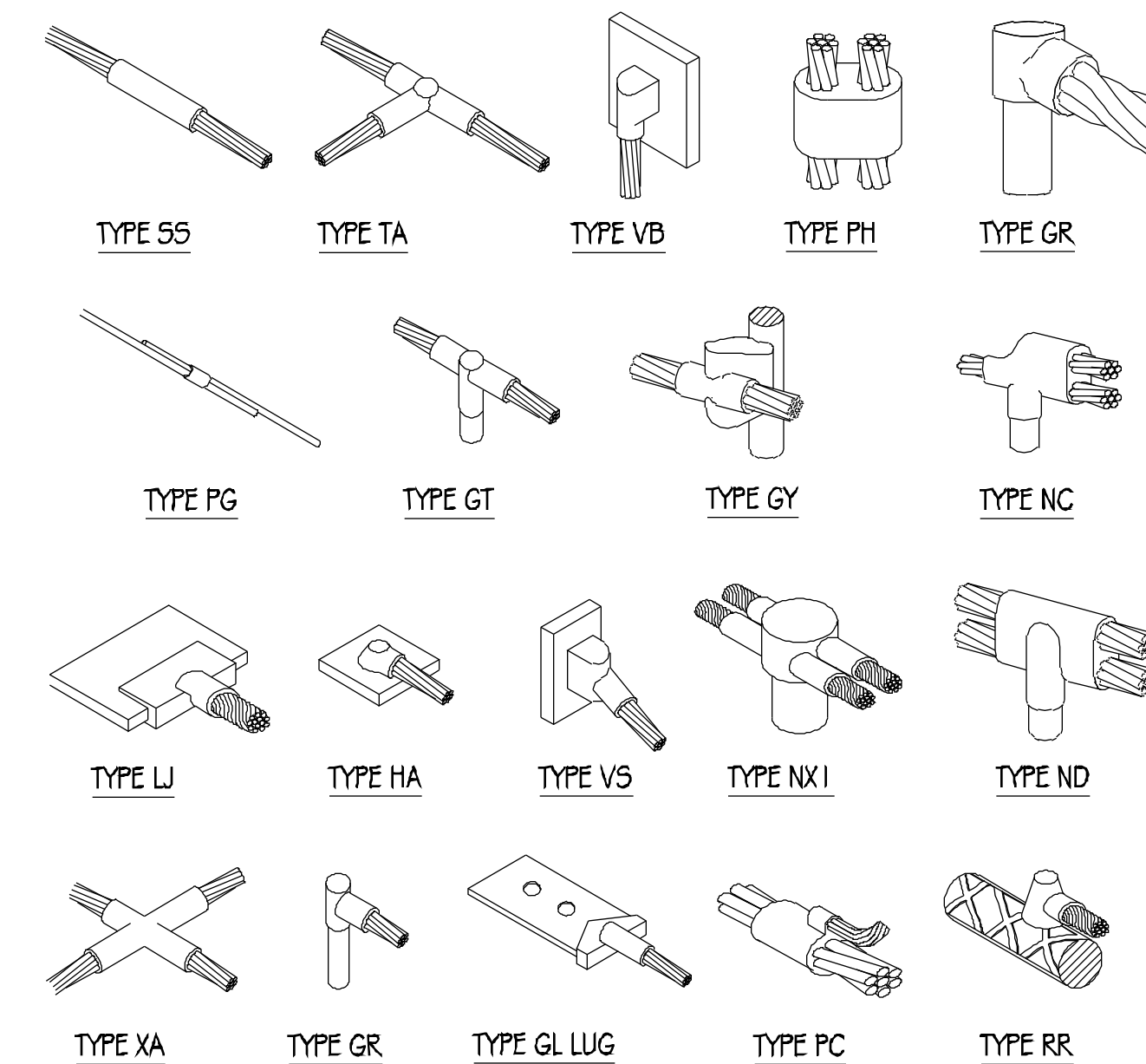
| MAKE/MODEL | QUANTITY | DESCRIPTION | DIMENSIONS | WEIGHT | TX/RX | MAX TRANSMIT POWER | W | HW |
|--------------------|----------|-------------|----------------------|--------------|-------|--------------------|-----|------|
| ERICSSON RRU5-4415 | 1 | RRU5 | 16.5" X 13.4" X 5.9" | 46 LBS | 2T/2R | 4 X 40W | 670 | 0.67 |
| ERICSSON RRU5-11 | 1 | RRU5 | 19.7" X 17.0" X 7.2" | 55 LBS | 2T/2R | 2 X 40W | 520 | 0.52 |
| NEMA 3R ENCLOSURE | 1 | DISCONNECT | 12.7" X 8.9" X 4.3" | 40 LBS (MAX) | N/A | N/A | N/A | N/A |



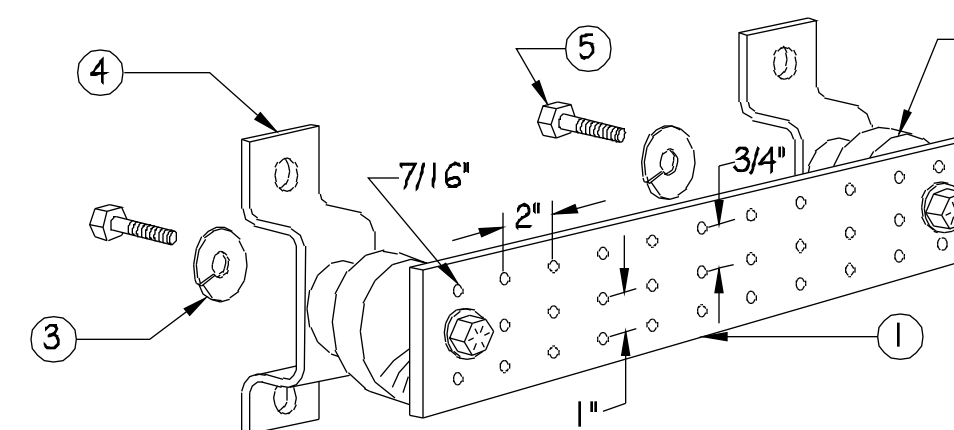
1 POLE GROUNDING DETAIL
NTS



2 CONDUIT RISER DETAIL
NTS



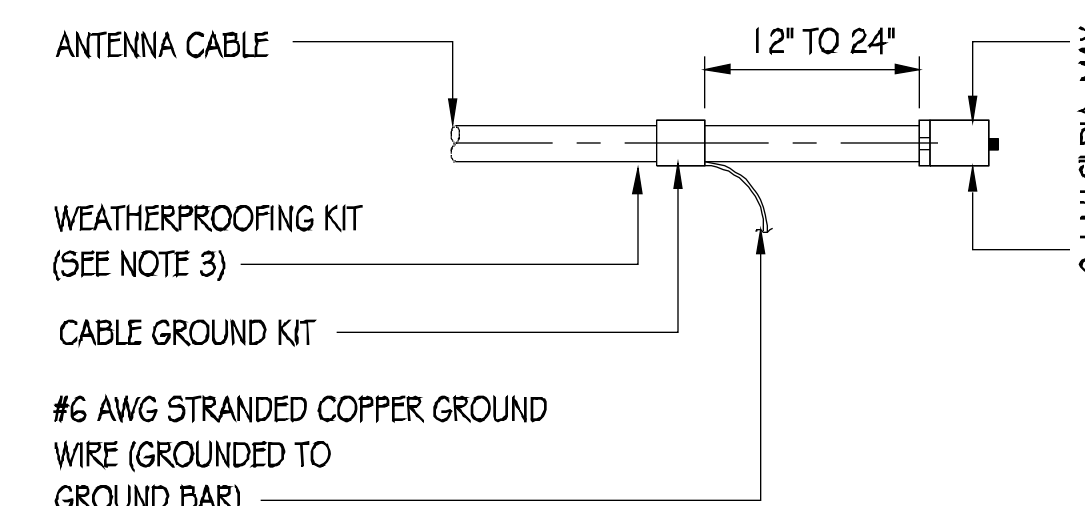
3 EXOTHERMIC WELD DETAILS
NTS



NOTES:

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-6056 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 TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

4 GROUND BAR DETAIL
NTS



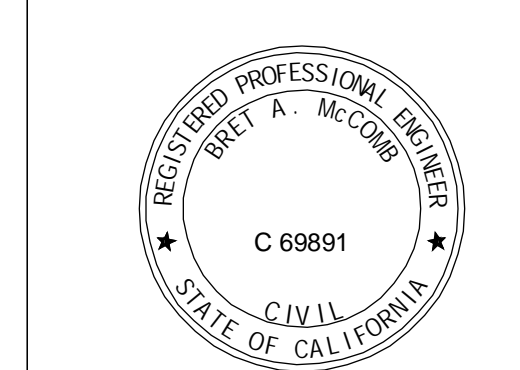
NOTES:

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

5 GND KIT DETAIL
NTS



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DATE: 07/25/19
SHEET TITLE:

SINGLE-LINE DIAGRAM & DETAILS
SHEET NUMBER
E-1



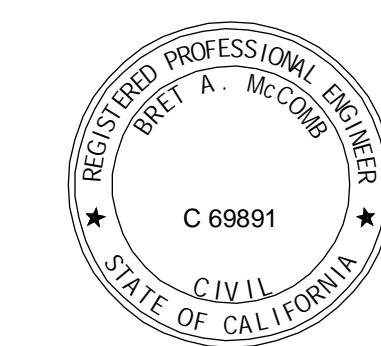
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

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Drafting, INC.
Phone: (530) 822-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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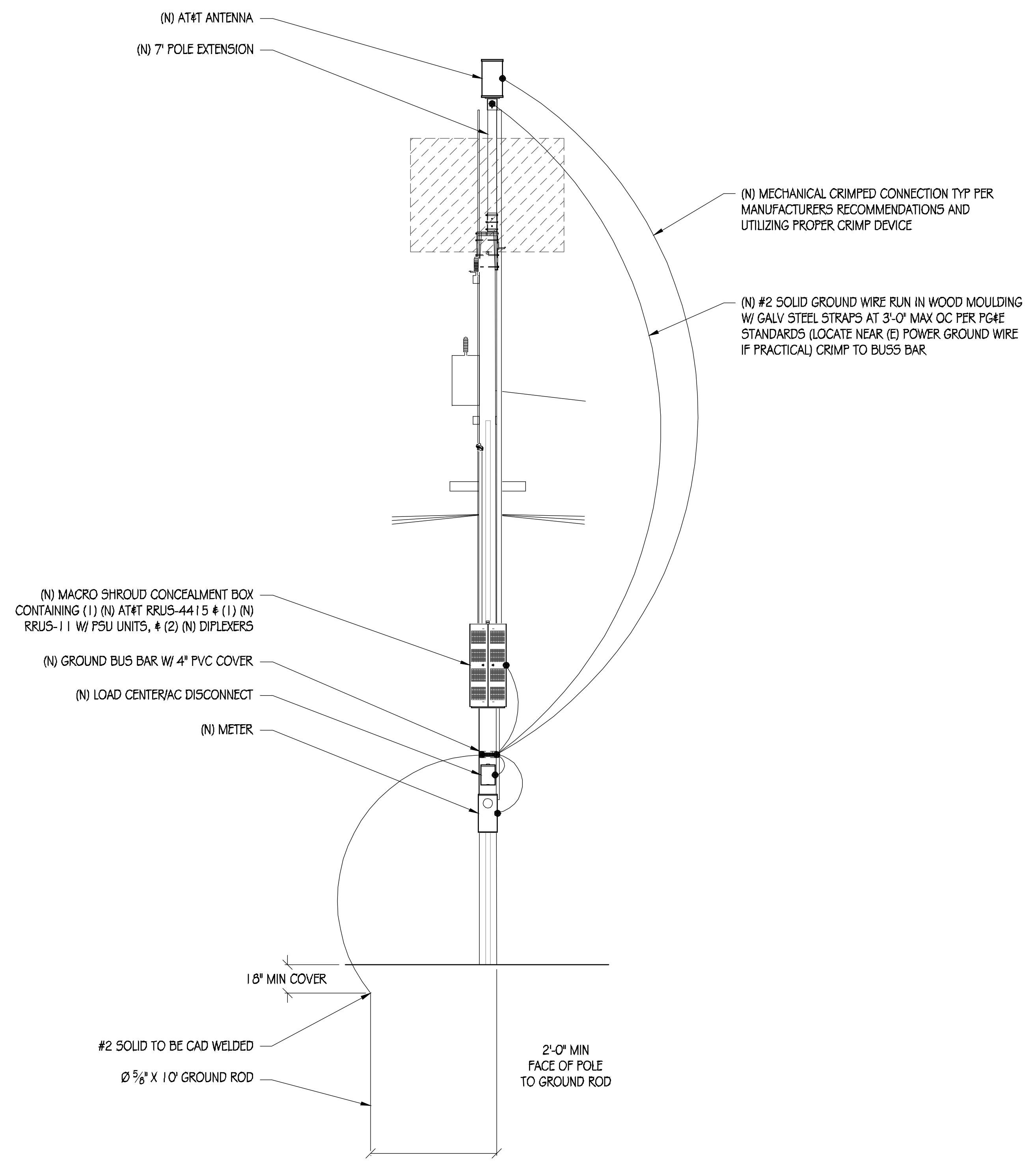
| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/20/18 | CD 90% |
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CHECKED BY: T. DICARLO
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DATE: 07/25/19
SHEET TITLE:

GROUNDING DIAGRAMS

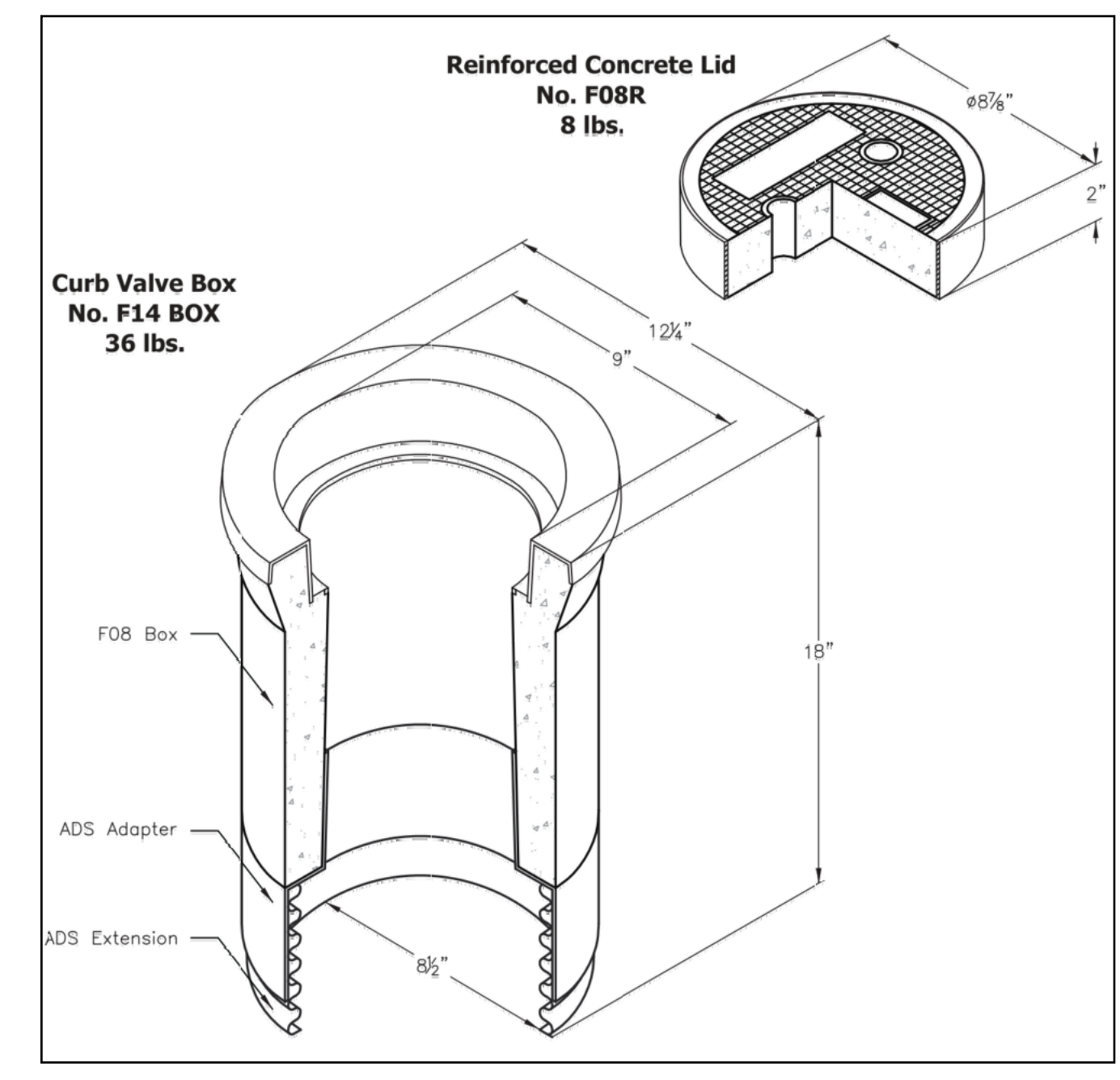
SHEET NUMBER

E-2



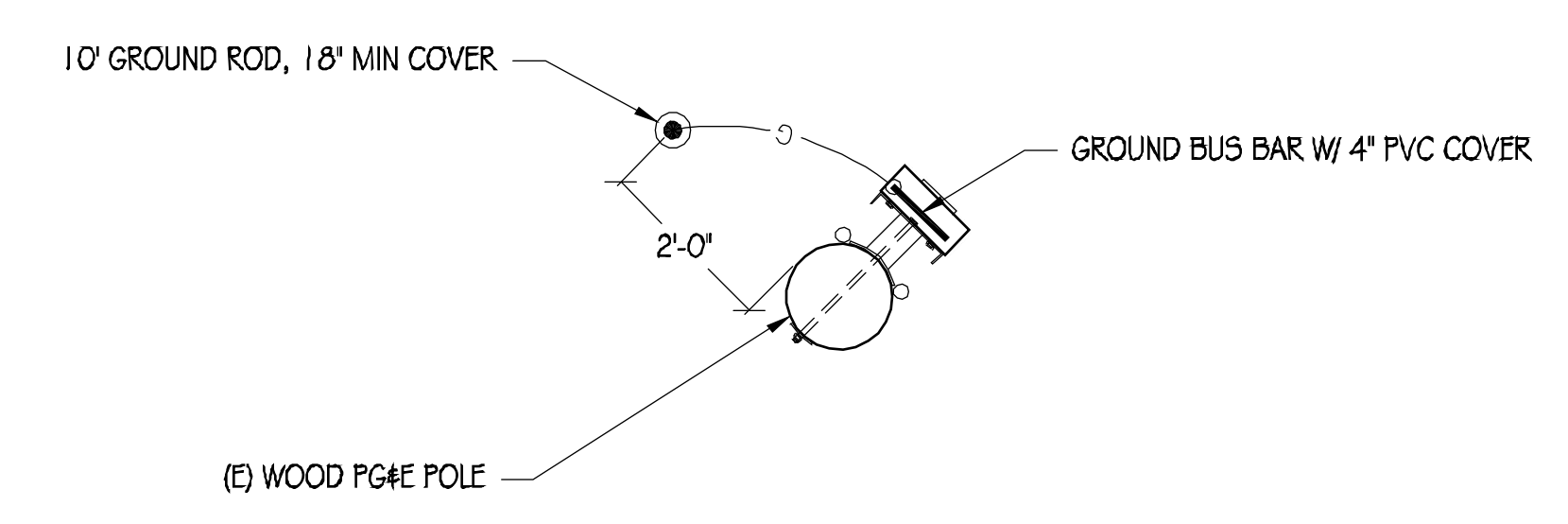
POLE GROUNDING DIAGRAM

NTS



TEST WELL DETAIL

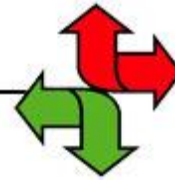
NTS



GROUNDING PLAN

NTS

Manual on Uniform Traffic Control Devices (MUTCD)



Knowledge

[Back to Chapter 6H](#)

2009 Edition Part 6 Figure 6H-10. Lane Closure on a Two-Lane Road Using Flagger (TA-10)

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

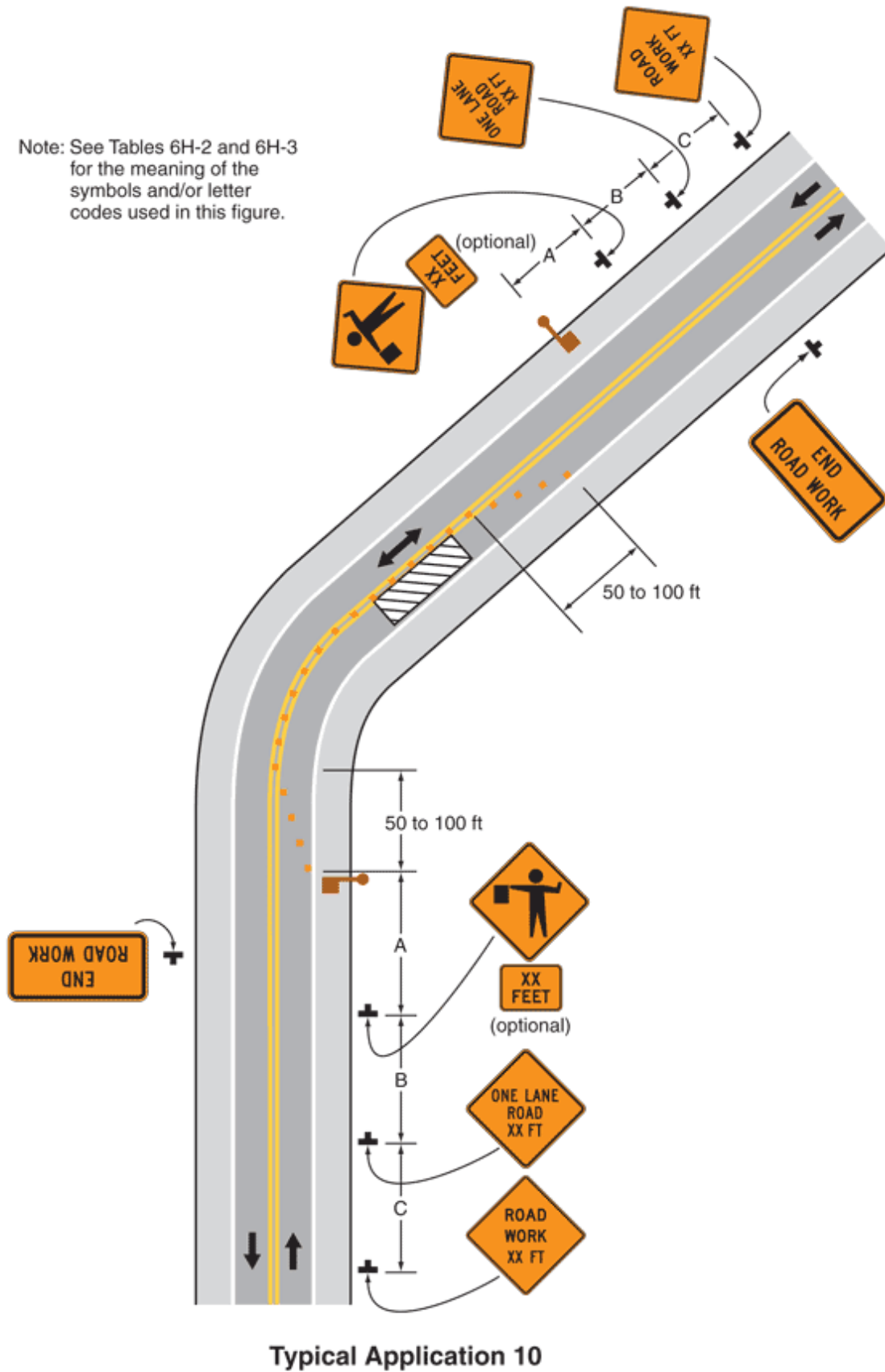


Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

This figure illustrates lane closure on a two-lane road using flaggers. A legend under the figure states that this is Typical Application 10. A note states "See [Tables 6H-2](#) and [6H-3](#) for the meaning of the symbols and/or letter codes used in this figure."

A vertical two-lane roadway is shown, the top half curving to the right. Downward-pointing black arrows in the left lane and upward-pointing black arrows in the right lane denote the direction of travel. The opposing lanes are shown separated by a solid double yellow line. A shoulder is shown to the right of each direction of travel. The shoulders are shown separated from the travel lanes by a solid white line.

At the bottom of the figure and to the right of the shoulder of the right lane, a black inverted "T" is shown denoting a sign. The sign is shown as a diamond-shaped orange sign with a black border and the words "ROAD WORK XX FT" in black. This sign is shown at a dimensioned distance C in advance of another diamond-shaped orange sign with a black border to the right of the right shoulder. It shows the words "ONE LANE ROAD XX FT" in black. This sign is shown at a dimensioned distance B in advance of a sign assembly to the right of the right shoulder. This assembly is shown as composed of a diamond-shaped orange sign with a black border and a black symbol of a flagger above a horizontal rectangular orange supplemental plaque labeled optional with a black border and the distance "XX FEET" in black. This sign assembly is shown at a dimensioned distance A in advance of a red symbol for a flagger, shown on the right shoulder. Beginning where the flagger is shown and at the white line separating the shoulder from the right lane, a series of orange squares, denoting channelizing devices, are shown tapering in to the solid double yellow line separating the opposing traffic lanes. The space between the first channelizing device at the shoulder to the one shown on the solid double yellow line is shown as a dimension of 50 to 100 ft. Beyond this area, the channelizing devices continue along the solid double yellow line as the road is shown curving to the right.

Beyond the curve, the work space is shown in the right lane, represented by a vertical rectangular black and white diagonally striped box. The channelizing devices are shown continuing along the solid double yellow line to a point one device beyond the work space and then tapering back to the right shoulder for a dimensioned distance of 50 to 100 ft. Near the top of the figure, a horizontal rectangular orange sign with a black border is shown to the right of the right shoulder with the words "END ROAD WORK" in black.

At the top of the figure, to the outside of the left lane, the same three diamond-shaped orange signs are shown at the same dimensioned distances in advance of another flagger symbol in advance of the work space. Beyond the work space and roadway curve in the left lane, another End Road Work sign is shown.

[Back to Chapter 6H](#)



CITY OF LOS ALTOS
DISTRIBUTED ANTENNA SYSTEMS FOR WIRELESS COMMUNICATIONS
ENCROACHMENT PERMIT REQUIREMENTS

Distributed, repeater, or microcell antenna wireless communication systems and facilities that are regulated by the California Public Utilities Commission as a public utility and determined to be exempt from Los Altos' zoning regulations and use permit application requirements, shall be allowed in the public right-of-way subject to the following Encroachment Permit requirements:

- A. Antenna systems are encouraged along the city's arterial and collector streets. These facilities are allowed on local streets upon verification by a qualified electrical engineer licensed by the state of California representing the FCC licensee that using local streets is necessary to obtain capacity and coverage.
- B. Antenna systems are permitted on joint utility poles at a height not to exceed 10 feet above the height of joint utility pole. Replacement joint utility poles are allowed in accordance with the Municipal Code; however, no net new joint utility poles or monopole antennas are allowed in the public right-of-way.
- C. Antennae shall be designed to be as visually unobtrusive as possible, such as by housing the antenna in a single radome on top of joint utility pole, or by mounting the antenna directly on the joint utility pole in a streamline manner and painted to match the color of the utility pole.
- D. All antenna systems equipment boxes including switches, computers, cooling, back up power, etc., shall be mounted to the utility pole and both the antenna and utility equipment shall be painted to match the color of the existing utility pole.
- E. Only battery back up power systems shall be allowed. No generators shall be allowed.
- F. All new fiber optic and metal cables shall be installed underground unless there are existing overhead cables that can be collocated.
- G. Radiofrequency reports shall be provided for the facility's maximum planned operating power pursuant to the underlying FCC license.
- H. Provide a build-out plan that to the extent known at the time of application identifying by physical address (or if none, by geographic description) all other sites, regardless of whether now constructed, proposed, or anticipated, which are under contract at the time of application, subject to contractual provisions related to confidentiality, that are to be interconnected with this project site. Disclose in technical detail the proposed method of interconnection. Confidential sites may be identified generally.
- I. Disclose by licensee call sign all build-out requirements/obligations which have yet to be met of all wireless providers that the applicant is under contract to build in the City of Los Altos, and the known or estimated date when the remaining build-out requirements will be met.
- J. Identify by name, title, company affiliation, work address, telephone number and extension, and email address the key person or persons most knowledgeable regarding this Project so that the City may contact them with questions regarding the Project:

ENCROACHMENT PERMIT APPLICATION

The applicant is hereby given temporary permission to construct and maintain wireless communication systems at 687 Linden Ave, as shown on the attached drawings. This permission shall cease at such time as the City Engineer determines that said improvements or the applicant's use thereof is detrimental to the City.

The above permission is given subject to the following conditions:

1. The applicant, their heirs, executors, administrators, successors, and assigns, agree to indemnify and hold harmless the City of Los Altos, its officers, and employees against all claims, liabilities, and losses arising out of construction, existence, and future abandonment/destruction of the subject wireless communication systems and all other associated appurtenances. In addition, the applicant shall be responsible for the repair of all damage to roadways, sidewalks, curb and gutter, sewer mains and laterals, traffic signals and conduits, street lights and conduits, irrigation systems including controllers and conduits, or landscaping resulting from the construction/abandonment of the work proposed to be completed under the conditions of this permit, and shall be responsible for repairing or replacing such damaged areas.
2. Construction and destruction/abandonment of the work may be done on weekdays or Saturdays. Weekday work shall be limited to the hours of 8:00 AM and 6:00 PM., except as noted in the lane closure restrictions described in Item 3. Saturday work shall be performed during the hours of 9:00 AM and 6:00 PM.
3. Traffic control and adequate protection of the public in the vicinity of the work site shall be the responsibility of the applicant. Lane closures shall conform to the requirements established in the State of California Traffic Manual, and the State Standard Plans and Specifications.
4. The applicant shall notify the three closest adjacent property owners to the installation and the three closest property owners directly across the street from the installation at least 10 days prior to commencement of any work. In addition, the applicant shall notify the City Communications Department at (650) 948-8223 of street/alley and lane closures at least 24 hours prior to any work. Furthermore, the contractor shall notify the city's Traffic Engineer at least 48 hours in advance of any excavations within 100 feet of any traffic signals.
5. Contractor shall positively locate by hand digging all traffic signal conduit and irrigation controller conduit adjacent to traffic signals. Any damage repair to signal equipment or irrigation controller equipment shall be completed by a qualified electrical contractor immediately at the contractor's expense, and before proceeding with any other work. Traffic signal detector loop replacement shall be replaced within 48 hours of being damaged. The contractor is encouraged to use the City's signal maintenance contractor, Bear Electric, for any traffic signal repair work at the contractor's expense.
6. Asphalt concrete section for trench backfill shall be a thickness equal to the existing pavement, or 4-inches thick minimum, whichever is greater.

7. Completed Certificates of Insurance naming the City of Los Altos, its elective and appointed boards, officers, agents and employees as additional insured must be completed and submitted to the City by the owner, prior to beginning any work in the public right of way. Insurance shall remain in force during the entire time that the public right-of-way facilities are in use and shall provide the above certificate to the City on an annual basis.
8. The applicant shall comply with the National Pollutant Discharge Elimination System Permit in effect at the time of the application, and shall continue to comply with the Permit as amended by the State Water Board from time to time.
9. The applicant understands that the City continues to pursue future utility undergrounding. In the event a pole or poles used by the applicant are selected for undergrounding or relocation of mounted utilities, the applicant will be required to remove all equipment placed on the pole at his/her expense. The applicant agrees that the City is not obligated to provide alternate space for applicant's use should removal of a facility be directed to accomplish utility undergrounding.
10. The applicant shall maintain the distributed antenna system in good repair at the discretion of the City Engineer.
11. The applicant shall remove the entire distributed antenna system structures within 90 days when such system is abandoned.

I hereby agree to the terms of this Encroachment Permit:

Laura Meiners, Site Dev Agent
Name/Title

Sure Site Consulting
Company

Laura Meiners
Signature

7-30-19
Date

CERTIFIED NOTIFICATION LIST AFFIDAVIT

**CITY OF LOS ALTOS
STATE OF CALIFORNIA
COUNTY OF SANTA CLARA**

I, Robert Castro, hereby certify that the attached list contains the names and addresses of all persons to whom all property is assessed as they appear on the latest available assessment roll of the County within the area described on the attached notice and for a distance of two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, further certify that the attached list of occupants reflect all residential addresses within two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, certify under penalty of perjury that the foregoing is true and correct.

Robert Castro

Signature

June 21, 2019

Date the notices were mailed out

Location:

Public right of way near 687 Linden Avenue

37.3938030, -122.1192360

CRAN_RSFR_LOSA0_02

1 167-23-055
CALVIN D & PATTY M BRENNEMAN
688 KINGSWOOD WAY
LOS ALTOS CA 94022

2 167-23-056
CARL F JR & DEBORAH HAGENMAIER
676 KINGSWOOD WAY
LOS ALTOS CA 94022

3 167-23-057
MICHAEL C & CATHERINE H LIU
666 KINGSWOOD WAY
LOS ALTOS CA 94022

4 167-23-076
STEPHEN M & FAN JENNIFER TANG
580 UPPER VINTNERS CIR
FREMONT CA 94539

4 167-23-076
OCCUPANT
651 LINDEN AVE
LOS ALTOS CA 94022

5 167-23-077
SHARON H VON HAESLER
142 WHITE OAK DR
SANTA ROSA CA 95409

5 167-23-077
OCCUPANT
665 LINDEN AVE
LOS ALTOS CA 94022

6 167-23-078
CAROL JANE WHITELEY
677 LINDEN AVE
LOS ALTOS CA 94022

7 167-23-079
GREGORY & MORSHED JALEH BURNS
687 LINDEN AVE
LOS ALTOS CA 94022

8 167-23-080
SYED A & WING DONNA ASAR
689 LINDEN AVE
LOS ALTOS CA 94022

9 167-23-081
ALEX Q & WANG TAMMY LEE
707 LINDEN AVE
LOS ALTOS CA 94022

10 167-23-117
ERIC J & CAROLINE H RUMPTZ
717 LINDEN AVE
LOS ALTOS CA 94022

11 167-24-001
JEAN-PIERRE D & MARGERY F PATKAY
724 LINDEN AVE
LOS ALTOS CA 94022

12 167-24-002
SUDIN FAMILY TRUST
716 LINDEN AVE
LOS ALTOS CA 94022

13 167-24-003
LAURENCE E & ZIEROTH-HOFFMAN
BARB HOFFMAN
706 LINDEN AVE
LOS ALTOS CA 94022

14 167-24-004
KAMEL I & SAMIRA K TOTAH
696 LINDEN AVE
LOS ALTOS CA 94022

15 167-24-005
WAYNE P & JEANNETHE ARBAGEY
680 LINDEN AVE
LOS ALTOS CA 94022

16 167-24-036
JOEL F & WENDY B BARTLETT
672 LINDEN AVE
LOS ALTOS CA 94022

17 167-24-037
XIAOHUI & ZHOU JIANWEN TAO
666 LINDEN AVE
LOS ALTOS CA 94022

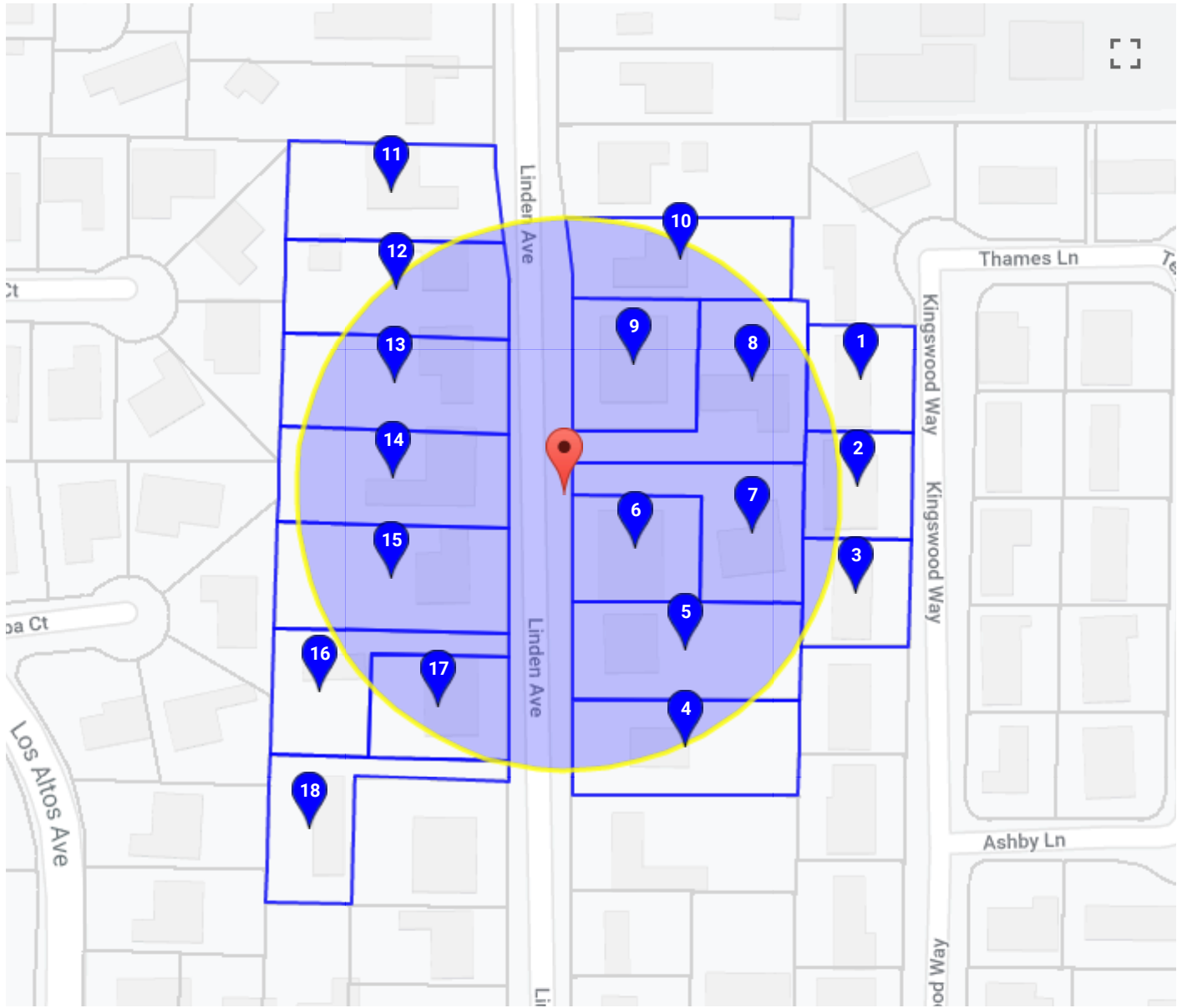
18 167-24-038
EUI Y & SUNEUN P RHO
PO BOX 503
LOS ALTOS CA 94023

18 167-24-038
OCCUPANT
650 LINDEN AVE
LOS ALTOS CA 94022

IVAN TOEWS
SURESITE CONSULTING
2033 GATEWAY PL 6TH FLR
SAN JOSE CA 95110

CHRIS ELDRIDGE
ERICSSON
6140 STONERIDGE MALL ROAD SUITE 350
PLEASANTON CA 94588

CHRIS KERR
AT&T MOBILITY
5001 EXECUTIVE PARKWAY 4W750EE
SAN RAMON CA 94568





AT&T is working to improve wireless service in City of Los Altos!

June 10, 2019

Dear Neighbor,

AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 687 LINDEN AVENUE. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and one (1) emergency power shut off. This equipment is designed to increase capacity in high demand areas and should increase wireless connection reliability for AT&T customers. See attached schematic for more information about the placement and size of equipment currently proposed to be installed. All equipment will be painted to match the pole.

This proposed small cell node is part of a greater network that will provide and enhance current cutting edge and future AT&T wireless voice and data service to the surrounding area, improving wireless capabilities and public safety connectivity. Although experiences with wireless services vary based on specific location and usage times, the wireless service proposed by this facility will help meet existing, fluctuating and future demands.

Map of Pole Location

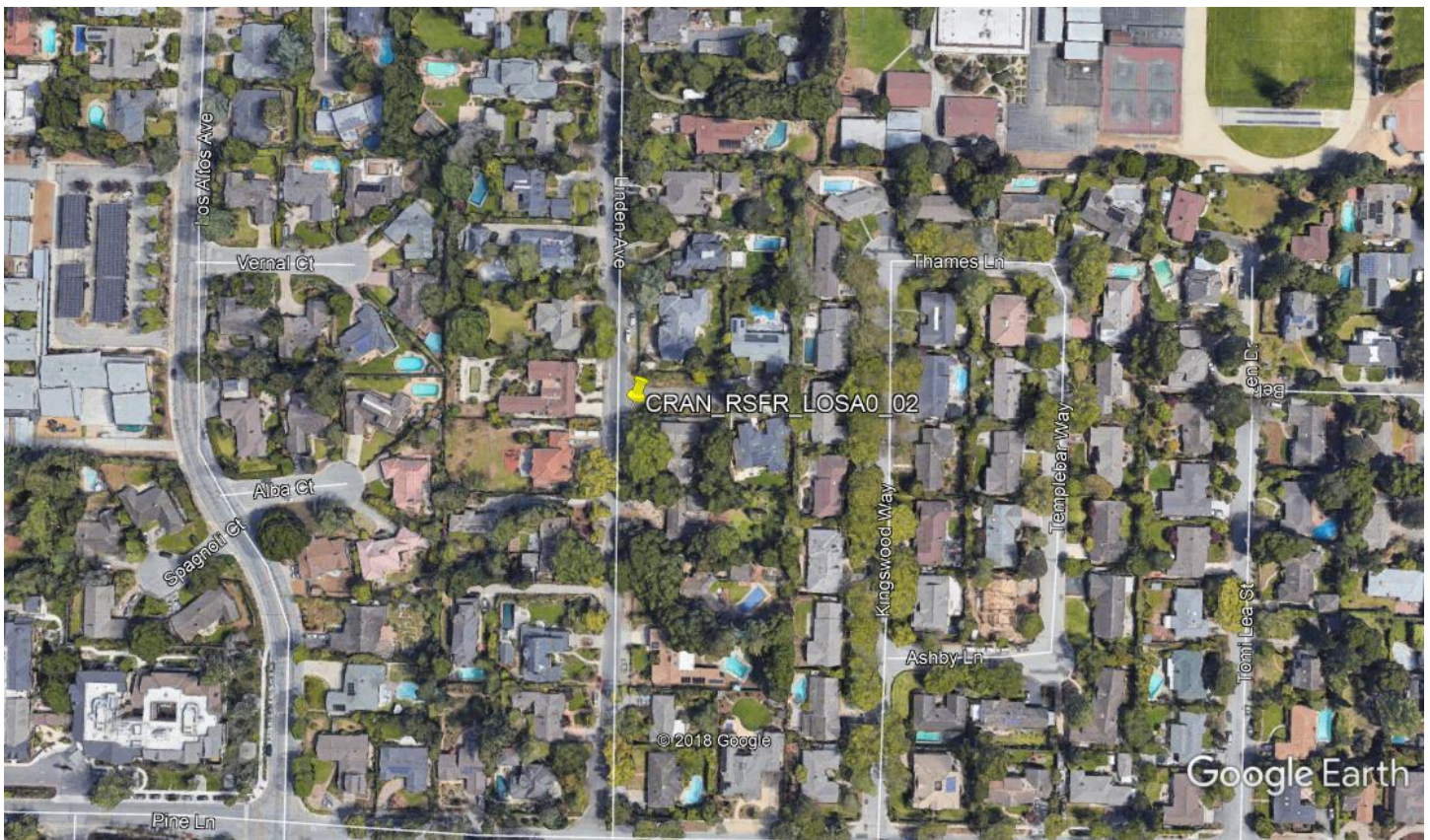




Photo of Existing Pole



Want to learn more?

Please contact AT&T's small cell project voice mailbox at 949-247-8686 or email escsd@sure-site.com should you have any comments or questions about the proposal.

Thank you.

Sincerely,

Angela Kung
AT&T Director - External Affairs



at&t

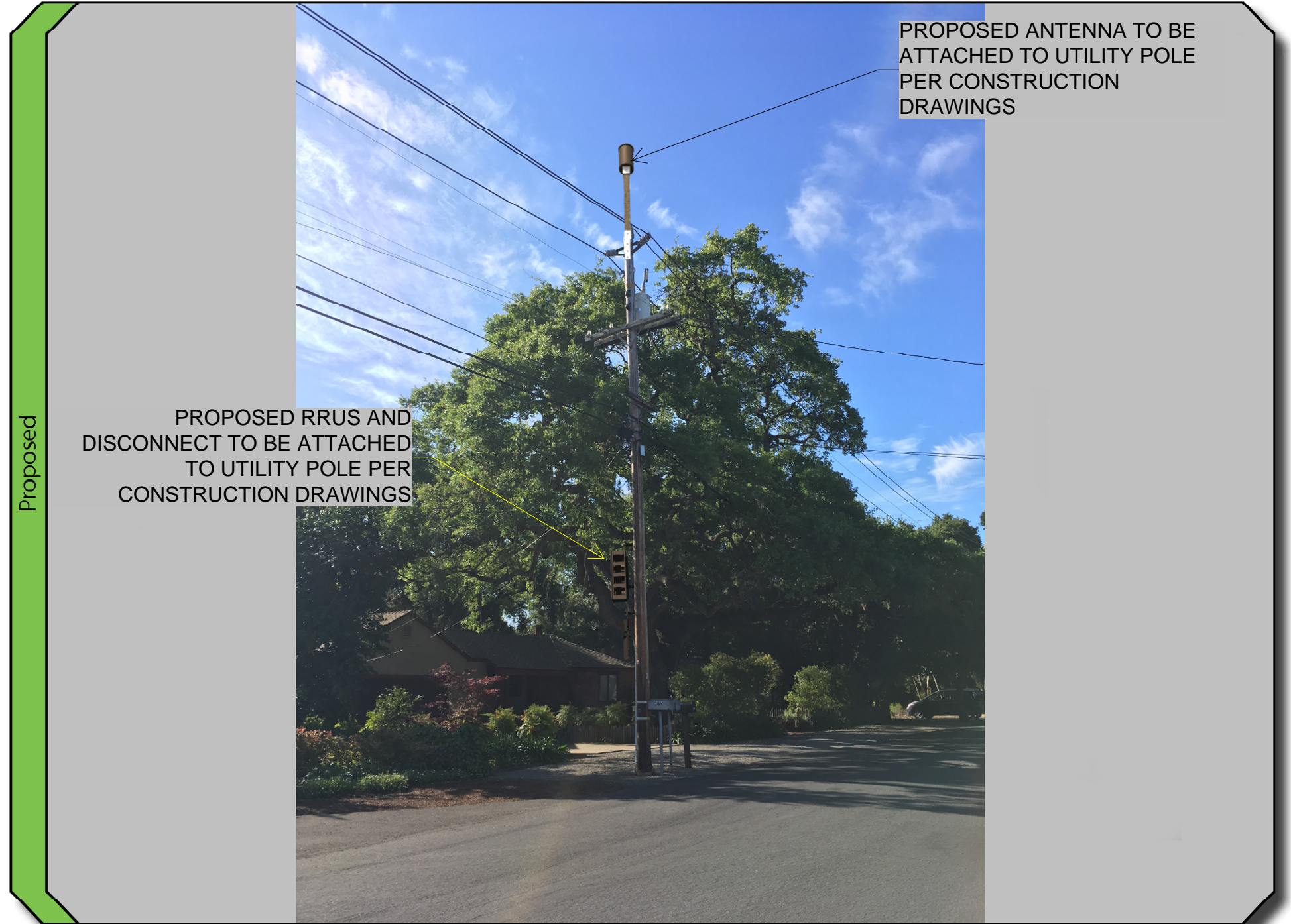
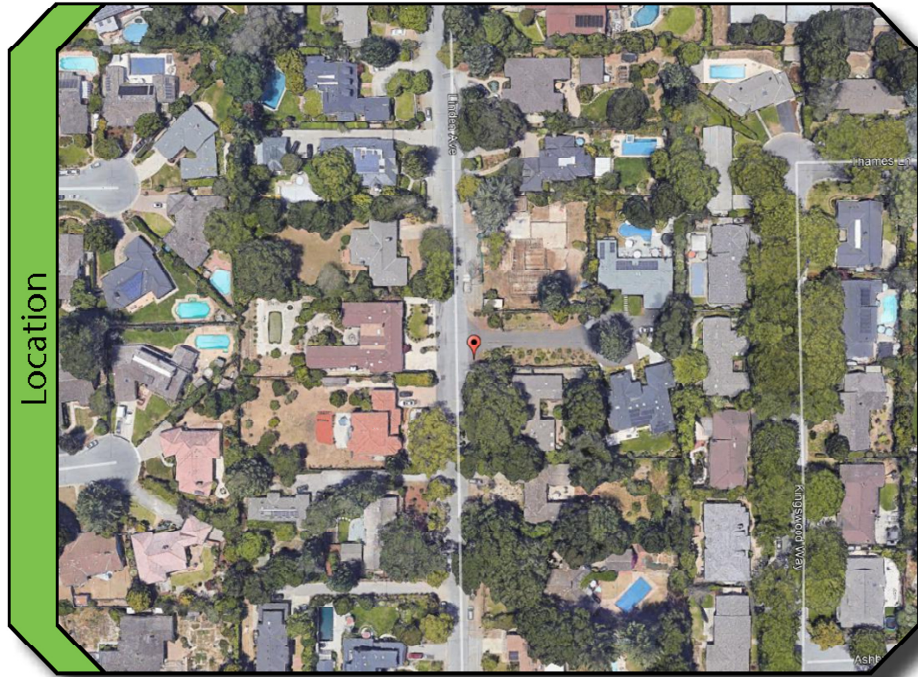
CRAN_RSFR_LOSA0_02

687 LINDEN AVENUE
LOS ALTOS, CA 94022



SURESITE
Infrastructure experts. Small cell leaders.

View 1 of 1



MARCH 20, 2019

Prepared by: RGL



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94593



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614
Infrastructure experts. Small cell leaders.



Phone: (510) 823-6546 www.pdind.com
11708 Alwood Rd., Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE HEREBY GRANTED TO THE PROPERTY OF SURESITE AND SHALL REMAIN THE PROPERTY OF SURESITE. SURESITE AND ITS CONSULTANTS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR OTHER PRODUCTS CAUSED BY THE INSTALLATION OF THE EQUIPMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.



CRAN_RSFR_LOSAO_02
ROW ADJCT TO 687 LINDEN AVE
LOS ALTOS, CA 94022

ISSUE STATUS

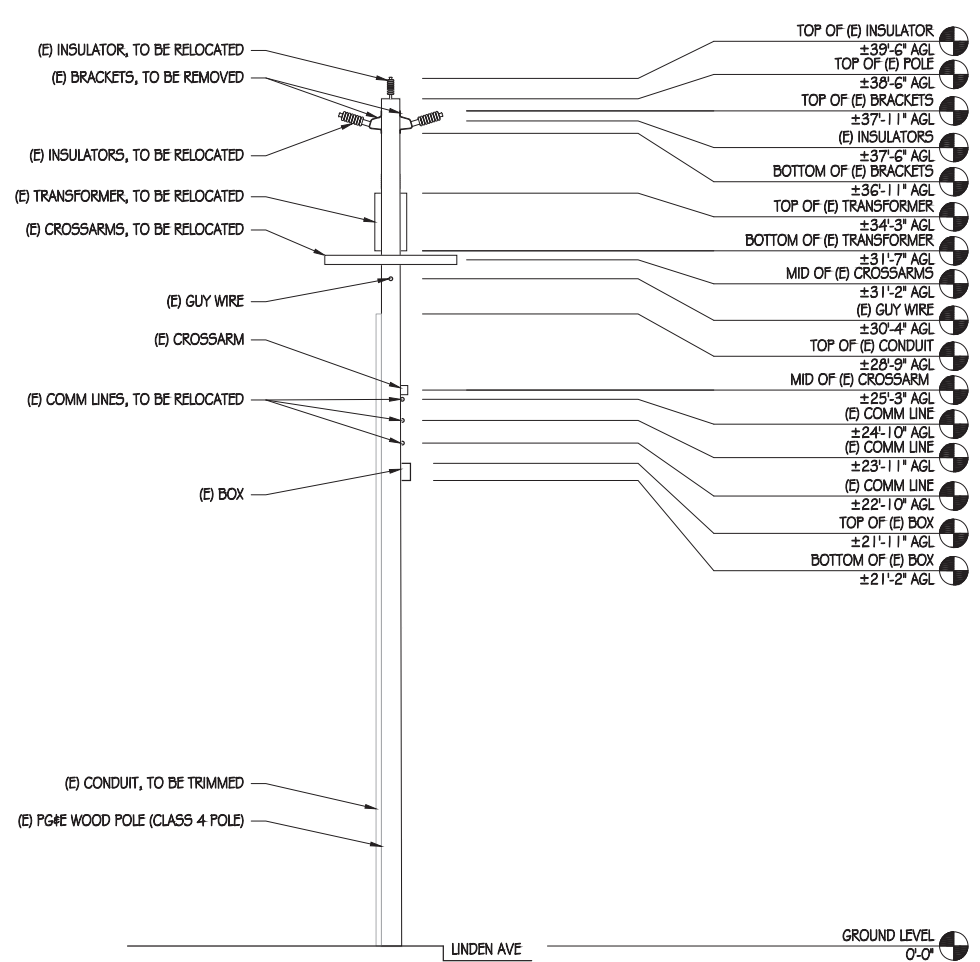
| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 06/20/18 | CD 90% |
| | 10/29/18 | CD 100% |

DRAWN BY: I. BAKER
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 10/29/18
SHEET TITLE:

ELEVATIONS

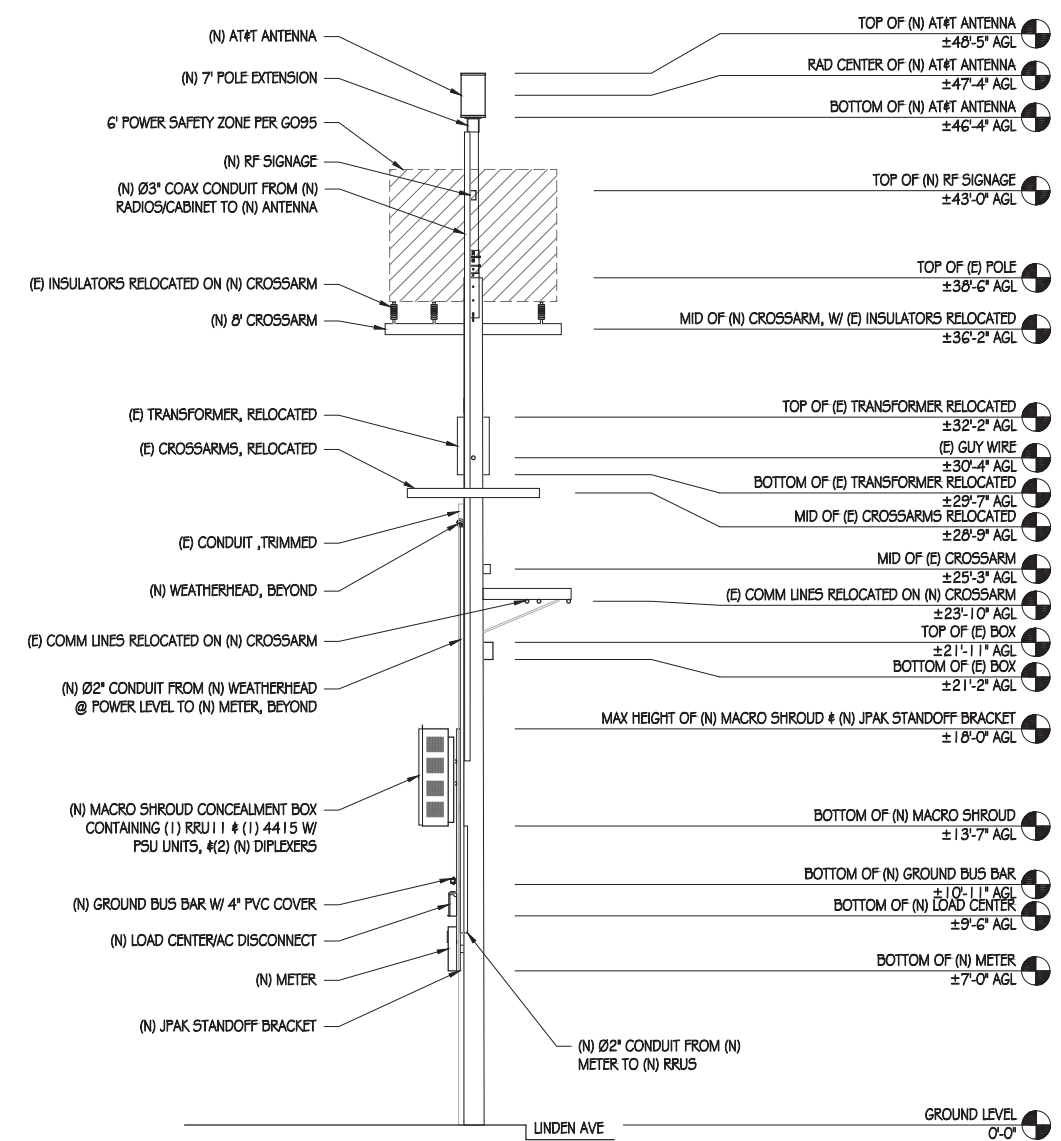
SHEET NUMBER

A-3



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"
NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN
NOTE: COMM LINES RELOCATED ON (N) CROSSARM

AT&T Mobility Radio Frequency Statement
Los Altos CA Small Cell Node 2

AT&T has experienced an unprecedented increase in mobile data use on its network since introduction of the iPhone in 2007. AT&T estimates that since introduction of the of the iPhone in 2007, mobile data usage has increased 470,000% on its network. AT&T forecasts its customers' growing demand for mobile data services to continue. The increased volume of data travels to and from customers' wireless devices and AT&T's wireless infrastructure over limited airwaves — radio frequency spectrum that AT&T licenses from the Federal Communications Commission ("FCC").

Spectrum is a finite resource and there are a limited number of airwaves capable and available for commercial use. Wireless carriers license those airwaves from the FCC. To ensure service quality, AT&T must knit together its spectrum assets to address customers' existing usage and forecasted demand for wireless services, and it must use its limited spectrum in an efficient manner.

AT&T uses high-band (i.e., 2300 MHz, 2100 MHz, and 1900 MHz) and low-band (i.e., 850 MHz and 700 MHz) spectrum to provide wireless service. Each spectrum band has different propagation characteristics and signal quality may vary due to noise or interference based on network characteristics at a given location. To address this dynamic environment, AT&T deploys multiple layers of its licensed spectrum and strives to bring its facilities closer to the customer. To address the existing and forecasted demand and to support 5G speeds in the near future, AT&T plans to deploy small cell facilities within public rights-of-way.

The service coverage gap is caused by inadequate infrastructure in the area. AT&T currently has existing sites in the broader geographical area but as Exhibit 1 illustrates, these existing sites do not provide sufficient high-band, in building LTE service in the gap area. To meet its coverage objectives, AT&T needs to construct a new wireless communications facility. In order to provide high-band LTE service coverage in this portion of the city, AT&T needs to place its small cell node along Linden Avenue near Pine Lane. Denial of this proposed facility would materially inhibit AT&T's ability to provide and improve wireless services in this portion of the city. The proposed small cell facilities will help close gap in coverage and help address increasing data usage, voice, and other wireless services driven by smart phones and tablet usage. This node is part of an effort to fully deploy 4G LTE technology in the area. Specifically, the proposed facility will close this service gap and provide sufficient high-band 4G LTE, in building coverage for AT&T customers in the affected area. 4G LTE is capable of delivering speeds up to 10 times faster than industry – average 3G speeds. LTE technology also offers lower latency, or the

processing time it takes to move data through a network, such as how long it takes to start downloading a webpage or file once you've sent the request. Lower latency helps to improve the quality of personal wireless services. What's more, LTE uses spectrum more efficiently than other technologies, creating more space to carry data traffic and services and to deliver a better overall network experience.

The proposed node on a pole in the public rights-of-way at 687 Linden Avenue is needed to close the high-band LTE service coverage in an area bordered roughly by Thames Lane to the north, Los Altos Avenue to the west, Beker Lane to the south and Kingswood Way to the east. This portion of Los Altos is primarily residential neighborhoods with dozens of homes.

It is important to understand that service problems can and do occur for customers even in locations where the coverage maps on AT&T's "Coverage Viewer" website appear to indicate that coverage is available. As the legend to the Coverage Viewer maps indicates, these maps display approximate coverage. Actual coverage in an area may differ from the website map graphics, and it may be affected by such things as terrain, weather, network changes, foliage, buildings, construction, high-usage periods, customer equipment, and other factors.

It is also important to note that the signal losses, slow data rates, and other service problems can and do occur for customers even at times when certain other customers in the same vicinity may not experience any problems on AT&T's network. These problems can and do occur even when certain customers' wireless phones indicate coverage bars of signal strength on the handset. The bars of signal strength that individual customers can see on their wireless phones are an imprecise and slow-to-update estimate of service quality. In other words, a customer's wireless phone can show coverage bars of signal strength, but that customer will still, at times, be unable to initiate voice calls, complete calls, or download data reliably and without service interruptions due to service quality issues.

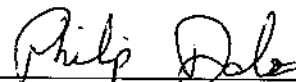
To determine where new equipment needs to be located for the provisioning of reliable service in any area, AT&T's radio frequency engineers rely on far more complex tools and data sources than just signal strength from individual phones. AT&T uses industry standard propagation tools to identify the areas in its network where signal strength is too weak to provide reliable in-building service quality. This information is developed from many sources including terrain and clutter databases that simulate the environment, traffic maps that simulate the density of users in the environment, and propagation models that simulate signal relative to interference in the presence of terrain and clutter variation. AT&T designs and builds its wireless network to ensure customers will receive reliable in-building service quality and data rates sufficient to stream video and complete calls. In-building service is critical as customers

increasingly use their mobile phones as their primary communication devices (more than 72% of American households rely primarily or exclusively on wireless telecommunications) and rely on their mobile phones to do more (E911, video streaming, GPS, web access, text, etc.). In fact, the FCC estimates that 70% of 911 calls are placed by people using wireless phones. And with AT&T's selection by FirstNet as the wireless service provider to build and manage the nationwide first responder wireless network, each new facility will help strengthen first responder communications.

Exhibit 1 is a map of the existing high-band LTE service coverage (without the proposed small cell node). It includes high-band LTE service coverage provided by other existing AT&T sites. The green shaded areas of the map depict acceptable in-building coverage. In-building coverage means customers are able to place or receive a call on the ground floor of a building. The yellow shaded areas depict areas within a signal strength range that provide acceptable in-vehicle service coverage. In these areas, an AT&T customer should be able to successfully place or receive a call within a vehicle. The lavender shading depicts areas within a signal strength range in which a customer might have difficulty receiving a consistently acceptable level of service. The quality of service experienced by any individual customer can differ greatly depending on whether that customer is indoors, outdoors, stationary, or in transit. Any area in yellow or lavender category is considered inadequate service coverage and constitutes a service coverage gap.

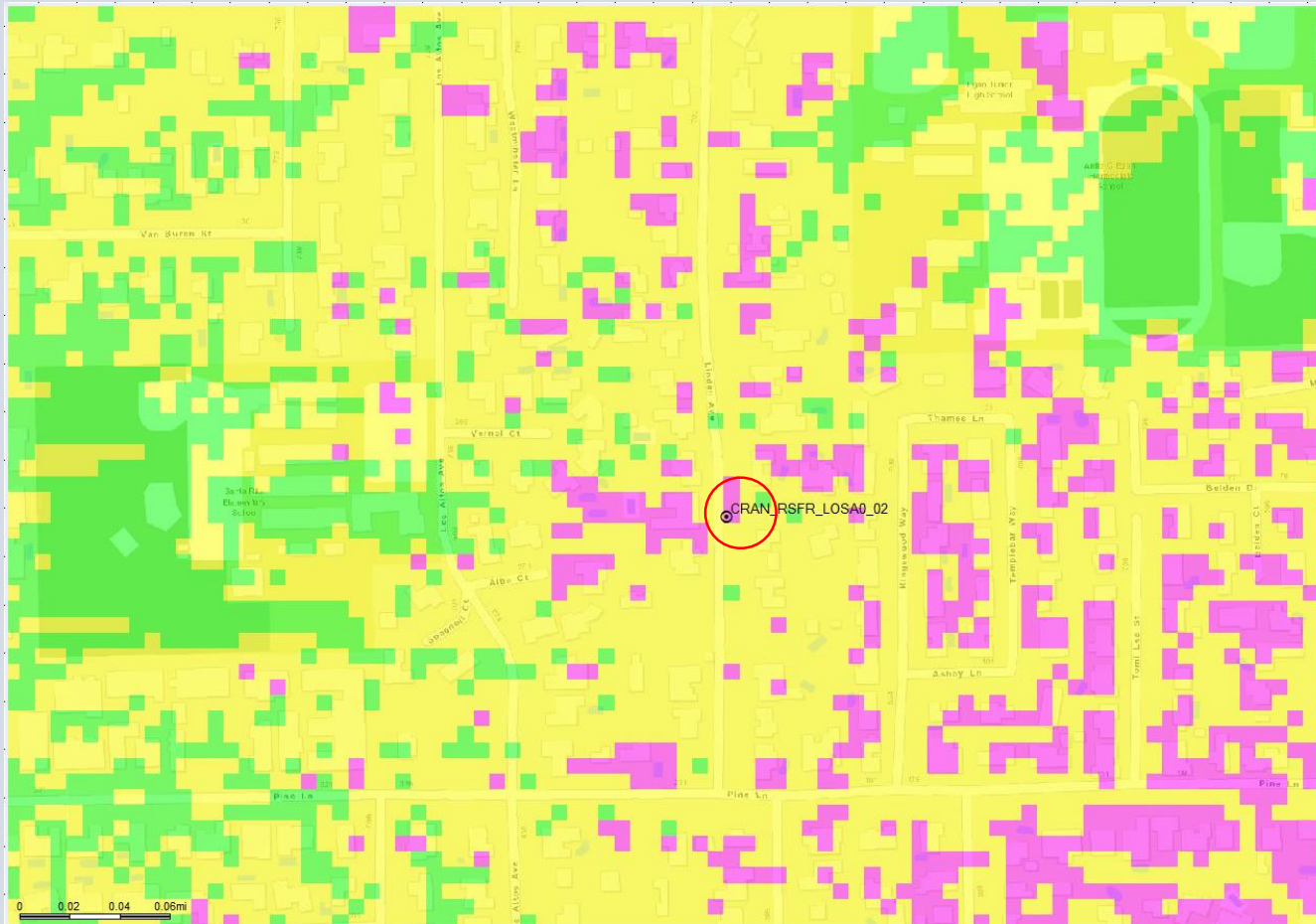
Exhibit 2 to this statement is a map that predicts high-band LTE service coverage based on signal strength in the vicinity if the proposed small cell node is constructed as proposed. As shown by this map, constructing the proposed small cell node here closes this significant service coverage gap.

My conclusions are based on my knowledge of the proposed small cell locations and with AT&T's wireless network in the surrounding area. I have a B.Sc. degree in Micro-Electronic System Design from University of Ulster, UK, am a Chartered Engineer, and have worked as an engineering expert in the wireless communications industry for more than 33 years.



Philip B A Dale C Eng
AT&T Mobility Services LLC
Network, Planning & Engineering
RAN Design & RF Engineering
July 19, 2019


LTE 1900 Coverage without Small Cell LOSA0_02




Legend ✕

Coverage_RSRP (dBm)

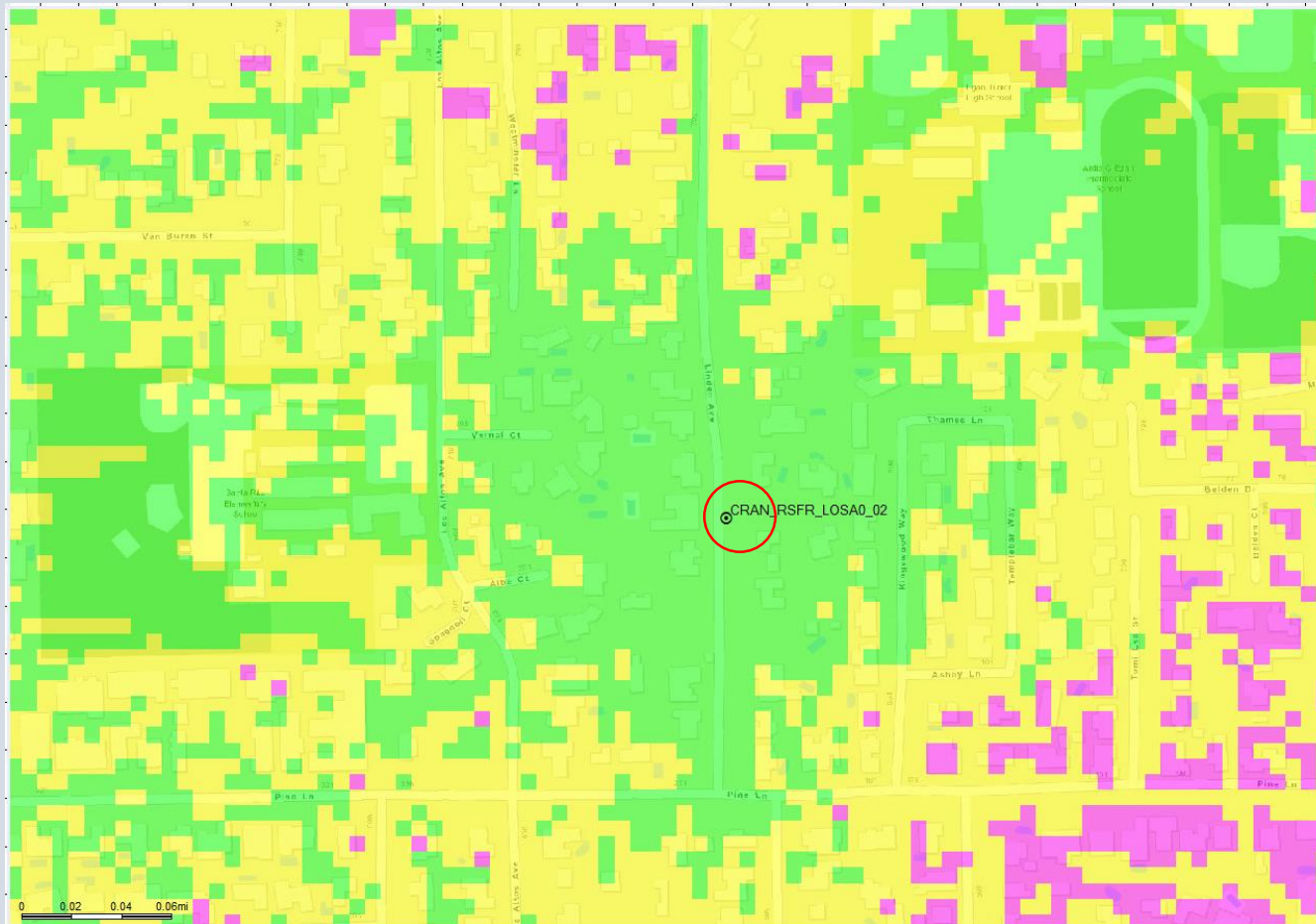
- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

 Macro site

 Proposed small cell Nodes





LTE 1900 Coverage with Small Cell LOSA0_02



Legend ✕

Coverage_RSRP (dBm)

- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

-  Macro site
-  Proposed small cell Nodes





Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

ENCROACHMENT PERMIT No. E19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed plan/drawing showing the proposed work):

LOCATION OF WORK: 421 Valencia Lane

TYPE OF WORK: Install equipment on new utility pole. (PG&E to perform pole replacement under separate excavation permit)

CONTRACTOR: Ericsson, Delbert Butcher **PHONE #** 720-317-7282

OWNER: PG&E, Jwo Cheng **PHONE #** 650-515-9842

APPLICANT: AT&T Mobility (New Cingular Wireless PCS),
Ivan Toews, SureSite Consulting, Agent **PHONE #** 949-278-2962

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any work in the traveled way section of a street.
- Applicant to construct Driveway/Walkway approach to the back of the existing rolled curb, without tying to the existing curb (cold joint).
- All work done in the City ROW shall comply with the City's Shoulder Paving Policy.
- Applicant shall provide adequate drainage with 3' wide AC swale (minimum of 4" AB plus 2" AC or 4" AC on compacted subbase is required) and conforms to existing street drainage.
- Contractor will be required to saw cut along the existing road pavement due to severe damaged edge.
- New sidewalk or curb shall be constructed per City Standards and connected to existing sidewalk or curb with #4, 16" long dowels @ 12" o.c. All saw cuts to be done at existing joints.
- Comments: _____

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ **DATE:** _____

ISSUED BY: _____ **DATE:** _____

SIGNATURE

INSPECTED BY: _____ **FINAL INSPECTION DATE:** _____

ATTACHMENT:

YES _____ **\$196.00** CREDIT CHECK CASH

NO _____ Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant and Finance

PERMIT VALID FOR 60 DAYS
 (See other side for General Requirements)

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** This permit is valid for **sixty (60) days** from the approval date unless otherwise noted.
- H.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- I.** Use of a Flashing Arrow Panel is **MANDATORY** when work location is within a 35 MPH speed zone.
- J.** Traffic conditions and adequate protection of the public in the vicinity of the job site shall be the responsibility of the applicant. During construction activities, two-way traffic shall be maintained. A minimum of one traffic lane shall be kept passable and under the control of competent flag persons. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable.
- K.** Any damage to painted street pavement delineations, markings or reflectors and painted curbs shall be restored as approved by the Engineer.
- L.** Excavations within the asphalt street section shall be backfilled before leaving the work for the night, unless otherwise authorized by the City's representative. Temporary surfacing shall be placed on the trench surface overnight.
- M.** All trench backfill requires certified compaction test to 95% density or greater for each lift (Maximum lift of 12") or use Controlled Density Fill (CDF) as approved.
- N.** All work shall be performed in accordance with the latest issue of Cal O.S.H.A. Safety Orders. The City has not checked trench safety and trench safety is not implied with this permit.
- O.** Landscaping is **NOT** to be disturbed any more than absolutely necessary. Restoration shall be to property owner's satisfaction.
- P.** Drainage patterns during construction shall be maintained to insure that surface drainage is properly managed and surrounding areas are protected from damage. Restoration must be to grades necessary to maintain original condition and maintain proper drainage flow lines.

Q. Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

R. All saw cut sludge/slurry should be immediately removed by means of a vacuum system.

EXHIBIT B INSURANCE

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022

Minimum Scope of Insurance

Coverage shall be *at least as broad as*:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.

3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.

4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability

insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.

6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*

9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Public Works Department - Engineering Division
 One North San Antonio Road, Los Altos, California 94022-3087
 Phone (650) 947-2780 Fax (650) 947-2732

TEMPORARY LANE CLOSURE PERMIT LC19-_____

APPLICATION

(To be completed by the applicant with a copy of detailed drawing showing the proposed location(s)):

LOCATION: 421 Valencia Lane
 TYPE OF WORK: Install equipment on new utility pole. (PG&E to perform pole replacement under separate excavation permit)
 DATE(S) REQUESTED: 3/21/2019
 CONTRACTOR: Ericsson, Delbert Butcher PHONE # 720-317-7282
 OWNER: PG&E, Jwo Cheng PHONE # 650-515-9842
 APPLICANT: AT&T Mobility (New Cingular Wireless PCS), PHONE # 949-278-2962
Ivan Toews, SureSite Consulting, Agent

SPECIAL REQUIREMENTS (TO BE COMPLETED BY THE CITY):

Applicant must submit evidence of insurance coverage meeting the minimum requirements set forth in this permit including, without limitation, the General Requirements and exhibits attached hereto prior to issuance of this permit. The City of Los Altos approves this request subject to the "General Requirements" listed on the back of this page and the following indicated conditions:

- Notify the City of Los Altos Engineering Division at (650) 947-2780 at least 2 business days prior to beginning any work in Downtown area or on collector and arterial roads. Work in the public right of way in other areas requires at least 1 business day notice prior to beginning of work. Final inspection shall be scheduled at least 1 business day prior by contacting City of Los Altos Engineering Division.
- A copy of this permit must be at job site for authorized representative of the City when requested or work may be terminated by the City until compliance with this requirement is met.
- The applicant shall notify the Los Altos Police Department at (650) 947-2770 and Fire Department, Santa Clara County at (408) 378-4010 at least 3 business days prior to any lane or road closure.
- Comments:**

Applicant has read and understands all the conditions; and agrees to all the conditions of this permit.

SIGNATURE OF APPLICANT: _____ DATE: _____
 ISSUED BY: _____ DATE: _____
 _____ SIGNATURE
 INSPECTED BY: _____ FINAL INSPECTION DATE: _____

| | |
|---|------------------|
| APPLICATION FEE (includes the first day): | \$ 505.00 |
| 0 additional days at \$62/day: | \$ - |
| TOTAL FEES: | \$ 505.00 |

ATTACHMENT:

YES Traffic Control Plan CREDIT CHECK CASH
 NO _____ Provide Check # or type of credit (VS, MC, or D) and last 4 digits

Distribution: Original – Inspector Copies: Applicant, Police Department, and Finance

PERMIT VALID FOR _____ DAYS
 See other side for General Requirements

GENERAL REQUIREMENTS FOR ALL JOBS

- A.** To the fullest extent permitted by law, applicant shall defend, indemnify and hold City, the City Council, members of the City Council, its employees, representatives, agents and volunteers harmless from any and all suits, damages, costs, fees, claims, demands, causes of action, liabilities, losses expenses, damage or injury of any kind, in law or equity, to property or persons, including wrongful death and financial losses in any manner arising out of, pertaining to, or incident to any alleged acts, errors or omissions, or willful misconduct of applicant or applicant's officers, assistants, subcontractors, employees or agents in connection with this permit.

Applicant shall procure and maintain insurance as set forth in Exhibit B, attached hereto and incorporated herein by this reference, against claims for injury to persons or damage to property arising from or in connection with this permit.

- B.** Commencement of any work under this permit shall constitute acceptance of the conditions and requirements of this permit.
- C.** The City may require modifications to this permit as needed because of special field conditions.
- D. NO OTHER WORK**, other than specifically mentioned, is hereby authorized. A copy of this permit must be kept on the site of the work to be shown to any authorized representative of the City.
- E.** This permit does not authorize any excavation and grading on private property. This permit does not release the applicant/permittee from liabilities contained in other agreements or contracts with the City, other agencies or persons.
- F.** This permit does not supersede or replace any permit that may be needed from other agencies. Proper permits must be obtained from State, County, and any other agency involved.
- G.** Construction site signs, devices and lights shall be in accordance with Caltrans standards.
- H.** Use of a Flashing Arrow Panel is MANDATORY when work location is within a 35 MPH speed zone.
- I.** Traffic conditions and adequate protection of the public in the vicinity of the stall(s) shall be the responsibility of the applicant. At night, weekends, and holidays, a minimum of two 12-foot wide travel lanes shall be safe and passable
- J.** Applicant/Permittee is responsible for complying with all applicable water quality standards adopted by the City, County, State or other jurisdictional or properly empowered regulatory agency.

**EXHIBIT B
INSURANCE**

CONTRACTOR shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022
Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

CONSULTANT shall provide its insurance broker(s)/agent(s) with a copy of these requirements and request that they provide Certificates of Insurance complete with copies of all required endorsements to: **Project Manager, City of Los Altos, 1 N. San Antonio Road, Los Altos, CA 94022**

Minimum Scope of Insurance

Coverage shall be *at least as broad as:*

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, with limits no less than **\$1,000,000/\$2,000,000 aggregate** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. CGL insurance must include coverage for the following:

- a. Bodily Injury and Property Damage
- b. Personal Injury/Advertising Injury
- c. Premises/Operations Liability
- d. Products/Completed Operations Liability
- e. Aggregate Limits that Apply per Project
- f. Explosion, Collapse and Underground (UCX) exclusion deleted
- g. Contractual Liability with respect to this Agreement
- h. Broad Form Property Damage
- i. Independent Consultants Coverage

The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; (3) products/completed operations liability; or (4) contain any other exclusion contrary to the Agreement.

2. **Automobile Liability:** Insurance Services Office Form Number CA 00 01 covering, Code 1 (any auto), or if CONSULTANT has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
3. **Workers’ Compensation/Employer’s Liability:** CONSULTANT certifies that it is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and it will comply with such provisions before commencing work under this Agreement. To the extent CONSULTANT has employees at any time during the term of this Agreement, at all times during the performance of the work under this Agreement CONSULTANT shall maintain insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.
4. **Professional Liability (Errors and Omissions)** Insurance appropriate to the CONSULTANT’s profession, with limit no less than **\$1,000,000** per occurrence or claim. This insurance shall be endorsed to include contractual liability applicable to this Agreement and shall be written on a policy form coverage specifically designed to protect against acts, errors or omissions of the CONSULTANT. “Covered Professional Services” as designed in the policy must specifically include work performed under this Agreement.

5. **Umbrella or Excess Liability: Umbrella or Excess Insurance.** If umbrella or an excess liability insurance policy is used to satisfy the minimum requirements for CGL or Automobile Liability insurance coverage listed above, the umbrella or excess liability policies shall provide coverage at least as broad as specified for the underlying coverages and covering those insured in the underlying policies. Coverage shall be “pay on behalf,” with defense costs payable in addition to policy limits. CONSULTANT shall provide a “follow form” endorsement or schedule of underlying coverage satisfactory to the CITY indicating that such coverage is subject to the same terms and conditions as the underlying liability policy.
6. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the umbrella or excess policy with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations. If CONSULTANT maintains broader coverage, umbrella or excess coverage and/or higher limits than the minimums shown above, the CITY requires and shall be entitled to the broader coverage, umbrella or excess coverage and/or the higher limits maintained by CONSULTANT. Any available insurance proceeds in excess of the specified minimum limits of insurance and any other coverages shall be available to the CITY.

Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:

Additional Insured Status. The CITY, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy and the Automobile Liability policy, with endorsements under CG 20 10 10 01 and 20 37 10 01, or endorsements providing the exact same coverage, with respect to liability arising out of work or operations performed by or on behalf of the CONSULTANT including materials, parts or equipment furnished in connection with such work or operations.

Primary Coverage. For any claims related to this contract, the CONSULTANT’s insurance coverage shall be primary insurance as respects the CITY, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, or volunteers shall be excess of the CONSULTANT’s insurance and shall not contribute with it.

Notice of Cancellation. Each insurance policy required above shall be endorsed to state that coverage shall not be canceled except after thirty (30) days’ prior written notice (10 days for non-payment) has been given to the CITY.

Waiver of Subrogation. CONSULTANT hereby grants to CITY a waiver of any right to subrogation which any insurer of said CONSULTANT may acquire against the CITY by virtue of the payment of any loss under such insurance. CONSULTANT agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the CITY has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by the CITY. The CITY may require the CONSULTANT to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best’s rating of no less than A:VII, unless otherwise acceptable to the CITY.

Claims Made Policies. If any of the required policies provide claims-made coverage:

7. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.

8. Insurance must be maintained and evidence of insurance must be provided *for at least three (3) years after completion of the contract work.*
9. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONSULTANT must purchase “extended reporting” coverage for a minimum of *three (3)* years after completion of contract work.

Verification of Coverage. CONSULTANT shall furnish the CITY with original certificates and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the CITY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONSULTANT’s obligation to provide them. The CITY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

Special Risks or Circumstances. CITY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Radio Frequency Emissions Compliance Report For AT&T Mobility

| | |
|---|--|
| Site Name: CRAN_RSFR_LOSA0_03 | Site Structure Type: Utility Pole |
| Address: 421 Valencia Drive Los Altos, California | Latitude: 37.389094 |
| Report Date: May 25, 2019 | Longitude: -122.111894 |
| | Project: New Build |

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN_RSFR_LOSA0_03 site located at 421 Valencia Drive, Los Altos, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

| Frequency (MHz) | <i>Limits for General Population/ Uncontrolled Exposure</i> | | <i>Limits for Occupational/ Controlled Exposure</i> | |
|-----------------|---|--------------------------|---|--------------------------|
| | Power Density (mW/cm ²) | Averaging Time (minutes) | Power Density (mW/cm ²) | Averaging Time (minutes) |
| 30-300 | 0.2 | 30 | 1 | 6 |
| 300-1500 | f/1500 | 30 | f/300 | 6 |
| 1500-100,000 | 1.0 | 30 | 5.0 | 6 |

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install 1 KMW FX-OM2L1OH2 Cylindrical Antenna
- Install 1 4415 Radio
- Install 1 RRUS-11 Radio

The antenna will be mounted on a 36-foot Utility Pole with a centerline 44 feet above ground level. The antenna is quasi-omnidirectional and will radiate in all directions. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 987 Watts. Other appurtenances such as GPS antennas, RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700 and 1900 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The quasi-omnidirectional antenna to be employed at this site is operating at relatively low power and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antenna. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.4334% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.6275% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

For areas on the pole that are predicted to exceed the General Population limits, Waterford Consultants, LLC recommends that AT&T Mobility post an RF alerting sign (Caution) on the pole 40 feet above ground level to be visible upon approach by authorized personnel to provide notification of potential conditions above this level. This recommendation is depicted in Figure 2. Any work activity in front of transmitting antennas should be coordinated with AT&T Mobility.

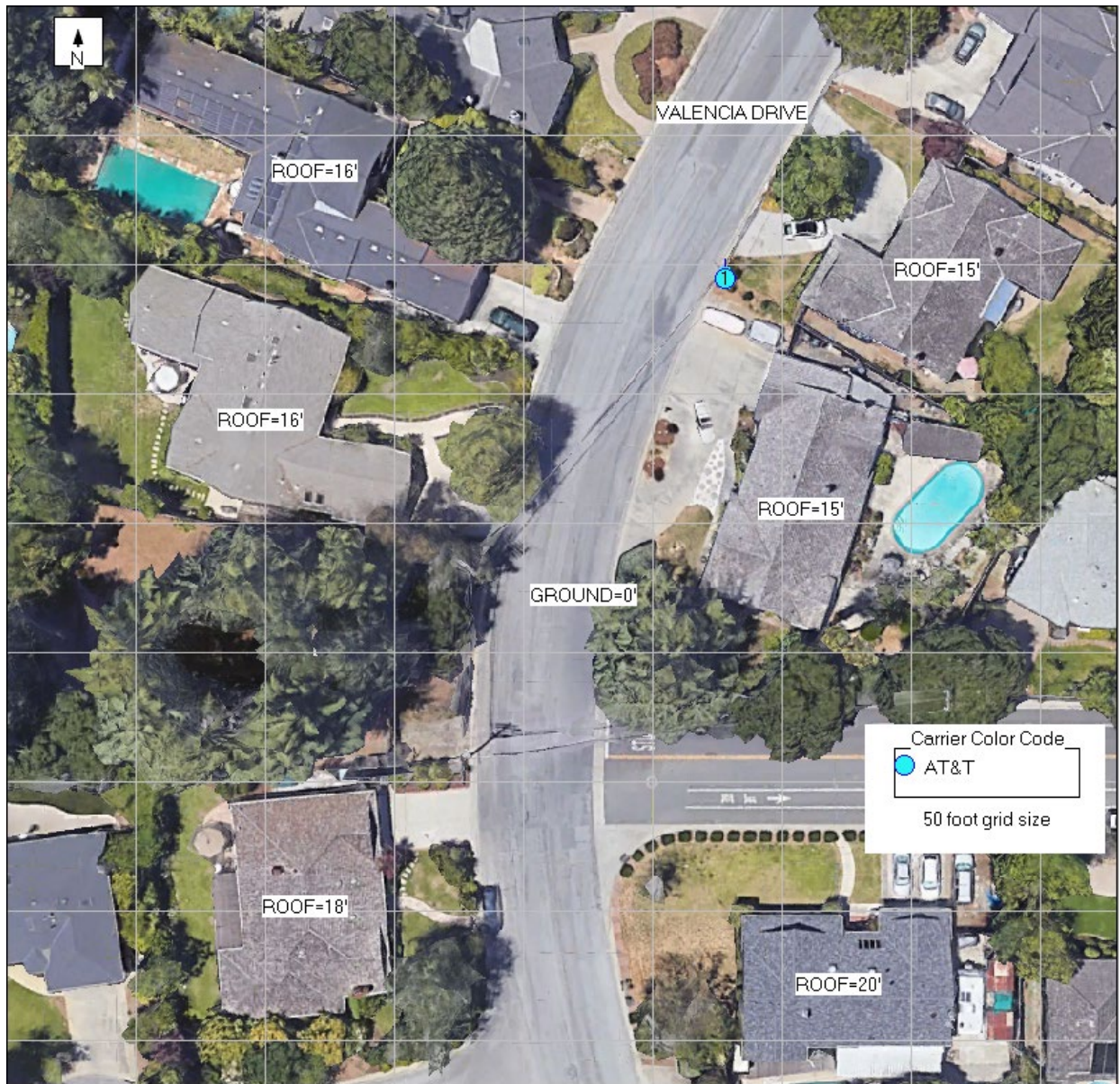


Figure 1: Antenna Locations

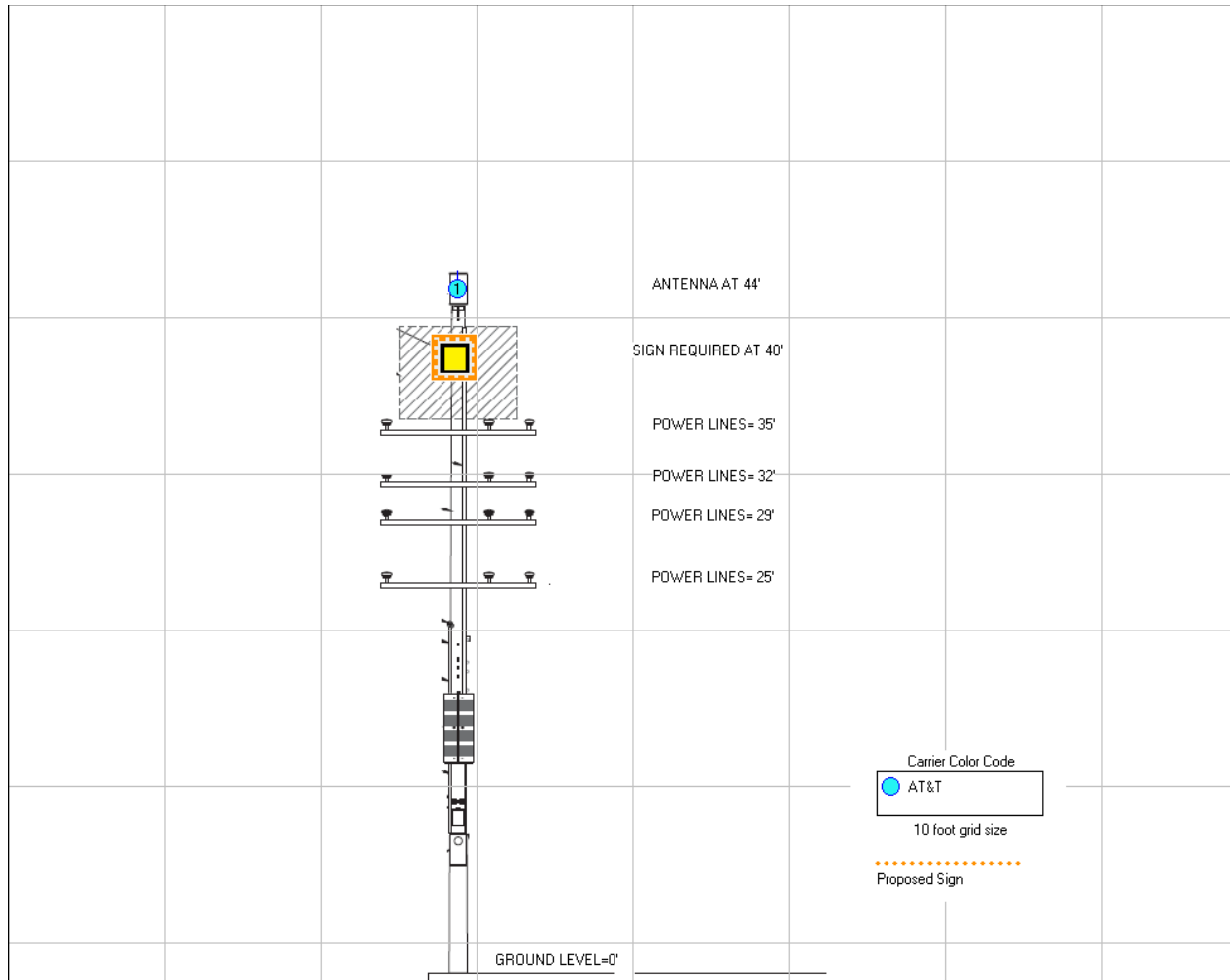


Figure 2: Mitigation Recommendations

 Caution

Compliance Statement

Based on information provided by AT&T Mobility, predictive modeling and the mitigation action to be implemented by AT&T Mobility, the installation proposed by AT&T Mobility at 421 Valencia Drive, Los Altos, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to these areas to authorized personnel that have completed RF safety training is required for Occupational environment compliance.

Certification

I, David H. Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



May 3, 2019

Suresite for AT&T
36 Executive Park, Suite 210
Irvine, CA 92614

Subj: CRAN_RSFR_LOSA0_003

We have analyzed the wood pole at 421 Valencia Drive, Los Altos, CA 94022 (37.389094,-122.111894) using O-Calc Pro 5.03 Utility Pole software.

Data for the wood pole was obtained from a previous site walk and photographs on November 8, 2018, as well as Google Earth images. Proposed equipment is provided by our client. Based on our analysis the pole with proposed loading is at 75.8% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

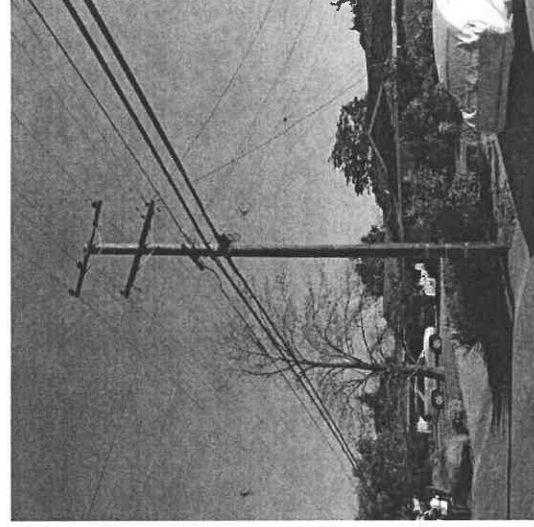
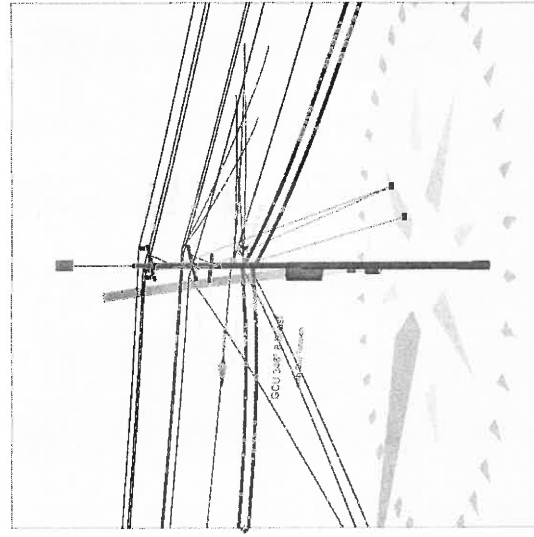
Bret McComb, P.E.



Attachments:

1. O-Calc Output: 5 pages
2. Pole Size Chart: 1 page

| | | | | | | | |
|------------|---------------------|-------------------------|-------------|----------------------|------------|-----------------------|--------------------|
| Pole Num: | CRAN_RSFR_LOSA0_003 | Pole Length / Class: | 45 / 3 | Code: | GO 95 | Structure Type: | Guyed Tangent |
| Aux Data 1 | Unset | Species: | DOUGLAS FIR | NESC Rule: | - | Status | Guy Wires Adequate |
| Aux Data 2 | Unset | Setting Depth (ft): | 8.25 | Construction Grade: | B | Pole Strength Factor: | 0.50 |
| Aux Data 3 | Unset | G/L Circumference (in): | 36.66 | Loading District: | Light | Transverse Wind LF: | 1.00 |
| Aux Data 4 | Unset | G/L Fiber Stress (psi): | 8,000 | Ice Thickness (in): | 0.00 | Wire Tension LF: | 1.00 |
| Aux Data 5 | Unset | Allowable Stress (psi): | 3,908 | Wind Speed (mph): | 55.90 | Vertical LF: | 1.00 |
| Aux Data 6 | Unset | Fiber Stress Ht. Reduc: | No | Wind Pressure (psf): | 8.00 | | |
| Latitude: | 37.389094 | Longitude: | -122.111894 | Deg | Elevation: | | 133.2 Feet |



| Pole Capacity Utilization (%) | Height (ft) | Wind Angle (deg) |
|-------------------------------|-------------|------------------|
| Crossarm allowance 300 lbs | | |
| Maximum | 75.8 | 0.0 |
| Groundline | 75.8 | 0.0 |
| Vertical | 9.6 | 26.2 |

| Pole Moments (ft-lb) | Load Angle (deg) | Wind Angle (deg) |
|----------------------------|------------------|------------------|
| Crossarm allowance 300 lbs | | |
| Max Cap Util | 37,352 | 347.2 |
| Groundline | 37,352 | 347.2 |
| GL Allowable | 50,815 | |

| Guy System Component Summary | Load From Worst Wind Angle on Pole | | | Individual Maximum Load | |
|-------------------------------|------------------------------------|------------------|-----------------------|-------------------------|------------------|
| | Nominal Capacity (%) | Wind Angle (deg) | Max Load Capacity (%) | Wind Angle (deg) | Wind Angle (deg) |
| ▶ Single - 12" - Soil Class 4 | 30.5 | 345.6 | 34.8 | 280.0 | 280.0 |
| • EHS 5/16 (Down) | 33.0 | 345.6 | 37.7 | 280.0 | 280.0 |
| • EHS 5/16 (Down) | 35.1 | 345.6 | 40.0 | 280.0 | 280.0 |
| ▶ Single - 12" - Soil Class 4 | 9.5 | 345.6 | 10.8 | 280.0 | 280.0 |
| • HS 1/4 (Down) | 49.9 | 345.6 | 56.8 | 280.0 | 280.0 |
| System Capacity Summary: | | | Adequate | Adequate | |

O-Calc® Pro Analysis Report

| Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 347.2° | | | | | | | | | | |
|--|-------------------|------------------|------------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|--------------------|-------------------|
| | Shear Load* (lbs) | Applied Load (%) | Bending Moment (ft-lb) | Applied Moment (%) | Pole Capacity (%) | Bending Stress (+/- psi) | Vertical Load (lbs) | Vertical Stress (psi) | Total Stress (psi) | Pole Capacity (%) |
| Powers | 786 | 51.1 | 26,062 | 69.8 | 51.3 | 2,025 | 110 | 1 | 2,026 | 51.9 |
| Comms | 1,189 | 77.4 | 25,640 | 68.6 | 50.5 | 1,992 | 1,593 | 15 | 2,007 | 51.4 |
| GuyBraces | -888 | -57.7 | -24,142 | -64.6 | -47.5 | -1,876 | 6,312 | 59 | -1,817 | -46.5 |
| GenericEquipments | 128 | 8.3 | 2,788 | 7.5 | 5.5 | 217 | 277 | 3 | 219 | 5.6 |
| Pole | 233 | 15.1 | 4,261 | 11.4 | 8.4 | 331 | 1,103 | 10 | 341 | 8.7 |
| Crossarms | 75 | 4.9 | 2,321 | 6.2 | 4.6 | 180 | 134 | 1 | 182 | 4.6 |
| Insulators | 14 | 0.9 | 423 | 1.1 | 0.8 | 33 | 71 | 1 | 34 | 0.9 |
| Pole Load | 1,537 | 100.0 | 37,352 | 100.0 | 73.5 | 2,903 | 9,600 | 90 | 2,992 | 76.6 |
| Pole Reserve Capacity | | | 13,463 | | 26.5 | 1,005 | | | 915 | 23.4 |

| Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 347.2° | | | | | | | | | | |
|--|-------------------|------------------|------------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|--------------------|-------------------|
| | Shear Load* (lbs) | Applied Load (%) | Bending Moment (ft-lb) | Applied Moment (%) | Pole Capacity (%) | Bending Stress (+/- psi) | Vertical Load (lbs) | Vertical Stress (psi) | Total Stress (psi) | Pole Capacity (%) |
| <Undefined> | 1,305 | 84.9 | 33,091 | 88.6 | 65.1 | 2,571 | 8,496 | 79 | 2,651 | 67.8 |
| Pole | 233 | 15.1 | 4,261 | 11.4 | 8.4 | 331 | 1,103 | 10 | 341 | 8.7 |
| Totals: | 1,537 | 100.0 | 37,352 | 100.0 | 73.5 | 2,903 | 9,600 | 90 | 2,992 | 76.6 |

Detailed Load Components:

| Power | Owner | Height (ft) | Horiz. Offset (in) | Cable Diameter (in) | Sag at Max Temp (ft) | Cable Weight (lbs/ft) | Lead/Span Length (ft) | Span Angle (deg) | Wire Length (ft) | Tension (lbs) | Tension Moment* (ft-lb) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|-----------|----------------------------|-------------|--------------------|---------------------|----------------------|-----------------------|-----------------------|------------------|------------------|---------------|-------------------------|------------------------|----------------------|-----------------------|
| Primary | AAC 3/0 AWG 7 STRAND PHLOX | 35.65 | 40.38 | 0.4640 | 1.64 | 0.157 | 126.0 | 208.0 | 126.0 | 681 | -18,376 | 3 | 306 | -18,067 |
| Primary | AAC 3/0 AWG 7 STRAND PHLOX | 35.65 | 40.38 | 0.4640 | 2.21 | 0.157 | 160.0 | 0.0 | 160.0 | 681 | 23,681 | 4 | 49 | 23,733 |
| Primary | AAC 3/0 AWG 7 STRAND PHLOX | 35.65 | 20.75 | 0.4640 | 1.64 | 0.157 | 126.0 | 208.0 | 126.0 | 681 | -18,376 | -1 | 306 | -18,071 |
| Primary | AAC 3/0 AWG 7 STRAND PHLOX | 35.65 | 20.75 | 0.4640 | 2.21 | 0.157 | 160.0 | 0.0 | 160.0 | 681 | 23,681 | -1 | 49 | 23,729 |
| Primary | AAC 3/0 AWG 7 STRAND PHLOX | 35.65 | 40.38 | 0.4640 | 1.64 | 0.157 | 126.0 | 208.0 | 126.0 | 681 | -18,376 | -12 | 306 | -18,082 |
| Primary | AAC 3/0 AWG 7 STRAND PHLOX | 35.65 | 40.38 | 0.4640 | 2.21 | 0.157 | 160.0 | 0.0 | 160.0 | 681 | 23,681 | -15 | 49 | 23,715 |
| Secondary | 1/0 AAC (POPPY) SHORT SPAN | 30.31 | 40.42 | 0.3680 | 1.39 | 0.099 | 126.0 | 208.0 | 126.0 | 435 | -9,979 | 2 | 207 | -9,771 |

O-Calc® Pro Analysis Report

| Secondary | 1/0 AAC (POPPY) SHORT SPAN | 30.31 | 40.42 | 0.3680 | 1.92 | 0.099 | 160.0 | 0.0 | 160.0 | 435 | 12,860 | 2 | 33 | 12,895 |
|----------------|-------------------------------|-------|-------|--------|------|-------|-------|-------|-------|---------------|---------|------------|--------------|---------------|
| Secondary | 1/0 AAC (POPPY) SHORT SPAN | 30.31 | 40.42 | 0.3680 | 1.39 | 0.099 | 126.0 | 208.0 | 126.0 | 401 | -9,207 | -8 | 207 | -9,008 |
| Secondary | 1/0 AAC (POPPY) SHORT SPAN | 30.31 | 40.42 | 0.3680 | 1.92 | 0.099 | 160.0 | 0.0 | 160.0 | 401 | 11,865 | -10 | 33 | 11,889 |
| Secondary | 1/0 AAC (POPPY) SHORT SPAN | 30.31 | 25.67 | 0.3680 | 1.39 | 0.099 | 126.0 | 208.0 | 126.0 | 475 | -10,899 | -6 | 207 | -10,698 |
| Secondary | 1/0 AAC (POPPY) SHORT SPAN | 30.31 | 25.67 | 0.3680 | 1.92 | 0.099 | 160.0 | 0.0 | 160.0 | 475 | 14,046 | -7 | 33 | 14,071 |
| Totals: | | | | | | | | | | 24,601 | | -49 | 1,783 | 26,335 |

| Comm | Owner | Height (ft) | Horiz. Offset (in) | Cable Diameter (in) | Sag at Max Temp (ft) | Cable Weight (lbs/ft) | Lead/Span Length (ft) | Span Angle (deg) | Wire Length (ft) | Tension (lbs) | Tension Moment* (ft-lb) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|----------------|----------|-------------|--------------------|---------------------|----------------------|-----------------------|-----------------------|------------------|------------------|---------------|-------------------------|------------------------|----------------------|-----------------------|
| Telco | TELE 1.0 | 30.31 | 40.42 | 1.0000 | 1.27 | 0.400 | 85.0 | 270.0 | 85.1 | 435 | 2,888 | 24 | 812 | 3,724 |
| Telco | TELE 1.0 | 30.31 | 40.42 | 1.0000 | 0.73 | 0.400 | 35.0 | 90.0 | 35.1 | 401 | -2,487 | -197 | 334 | -2,350 |
| Telco | TELE 1.0 | 30.31 | 40.42 | 1.0000 | 0.73 | 0.400 | 35.0 | 110.0 | 35.1 | 401 | -6,070 | -197 | 246 | -6,022 |
| Telco | TELE 2.5 | 23.33 | 6.95 | 2.5000 | 4.67 | 3.000 | 160.0 | 0.0 | 160.3 | 2,500 | 56,875 | 31 | 172 | 57,077 |
| Telco | TELE 2.5 | 23.33 | 6.95 | 2.5000 | 3.16 | 3.000 | 126.0 | 208.0 | 126.2 | 2,500 | -44,134 | 24 | 1,080 | -43,030 |
| Telco | TELE 1.0 | 23.33 | 6.95 | 1.0000 | 1.39 | 0.400 | 85.0 | 270.0 | 85.1 | 300 | 1,552 | 4 | 624 | 2,181 |
| Telco | TELE 1.0 | 23.33 | 6.95 | 1.0000 | 0.22 | 0.400 | 35.0 | 100.0 | 35.0 | 300 | -2,689 | 6 | 229 | -2,455 |
| Telco | TELE 1.0 | 23.33 | 6.95 | 1.0000 | 0.22 | 0.400 | 35.0 | 80.0 | 35.0 | 300 | -343 | 6 | 271 | -65 |
| Telco | TELE 2.5 | 22.00 | 7.03 | 2.5000 | 4.67 | 3.000 | 160.0 | 0.0 | 160.3 | 2,500 | 53,626 | 31 | 162 | 53,819 |
| Telco | TELE 2.5 | 22.00 | 7.03 | 2.5000 | 3.16 | 3.000 | 126.0 | 208.0 | 126.2 | 2,500 | -41,612 | 25 | 1,018 | -40,570 |
| Telco | TELE 1.0 | 24.75 | 6.87 | 1.0000 | 2.12 | 0.400 | 160.0 | 0.0 | 160.0 | 2,250 | 54,296 | 4 | 73 | 54,373 |
| Telco | TELE 1.0 | 24.75 | 6.87 | 1.0000 | 1.52 | 0.400 | 126.0 | 208.0 | 126.0 | 2,500 | -46,814 | 3 | 458 | -46,353 |
| Telco | TELE 1.0 | 24.67 | 63.52 | 1.0000 | 1.39 | 0.400 | 85.0 | 268.0 | 85.1 | 300 | 1,334 | -8 | 644 | 1,970 |
| Telco | TELE 1.0 | 24.72 | 27.89 | 1.0000 | 0.22 | 0.400 | 35.0 | 98.0 | 35.0 | 300 | -2,570 | -10 | 245 | -2,335 |
| Telco | TELE 1.0 | 24.72 | 27.89 | 1.0000 | 0.22 | 0.400 | 35.0 | 113.0 | 35.0 | 300 | -4,229 | -10 | 183 | -4,057 |
| Totals: | | | | | | | | | | 19,622 | | -264 | 6,551 | 25,909 |

| Generic Equipment | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|-------------------|------------------------------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|--------------------|------------------|------------------------|----------------------|-----------------------|
| Cylinder | 3" Dia 7' Steel Pipe | 40.30 | 0.05 | 0.0 | 0.0 | 53.06 | 84.00 | -- | 3.00 | -- | 0 | 564 | 564 |
| Cylinder | Antenna-KMW FX-OM2LI OH2-06T | 44.97 | 0.55 | 180.0 | 0.0 | 34.20 | 24.00 | -- | 16.00 | -- | -2 | 859 | 858 |
| Box | Housing For RRU's | 15.79 | 16.90 | 270.0 | 0.0 | 130.00 | 53.00 | 16.00 | -- | 23.00 | 41 | 1,219 | 1,259 |
| Box | 100amp Meter | 7.00 | 11.73 | 270.0 | 0.0 | 10.00 | 24.00 | 4.63 | -- | 12.00 | 2 | 75 | 77 |
| Box | Load Center | 9.75 | 10.39 | 270.0 | 0.0 | 50.00 | 12.65 | 4.27 | -- | 8.88 | 10 | 50 | 59 |
| Totals: | | | | | | | | | | 51 | 2,767 | 2,817 | |

O-Calc® Pro Analysis Report

| Crossarm | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Height (in) | Unit Depth (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) |
|----------------|----------------------------|-------------|--------------------|--------------------|--------------------|-------------------|------------------|-----------------|------------------|------------------------|----------------------|-----------------------|
| Normal | CROSSARM 3-1/2 X 4-1/2 X 8 | 34.50 | 5.54 | 180.0 | 180.0 | 53.00 | 4.50 | 3.50 | 96.00 | -24 | 1,254 | 1,230 |
| Normal | CROSSARM 3-1/2 X 4-1/2 X 8 | 29.50 | 5.84 | 180.0 | 180.0 | 53.00 | 4.50 | 3.50 | 96.00 | -25 | 1,072 | 1,047 |
| Normal | CROSSARM 3-1/2 X 4-1/2 X 4 | 27.25 | 5.97 | 270.0 | 270.0 | 28.00 | 4.50 | 3.50 | 48.00 | 3 | 65 | 68 |
| Totals: | | | | | | | | | | -46 | 2,391 | 2,345 |

| Insulator | Owner | Height (ft) | Horiz. Offset (in) | Offset Angle (deg) | Rotate Angle (deg) | Unit Weight (lbs) | Unit Diameter (in) | Unit Length (in) | Offset Moment* (ft-lb) | Wind Moment* (ft-lb) | Moment at GL* (ft-lb) | |
|----------------|------------------------|-------------|--------------------|--------------------|--------------------|-------------------|--------------------|------------------|------------------------|----------------------|-----------------------|------------|
| Post | Post Insulator - 15 kV | 34.69 | 40.00 | 262.1 | 0.0 | 11.00 | 4.75 | 11.50 | 3 | 106 | 109 | |
| Post | Post Insulator - 15 kV | 34.69 | 20.00 | 254.5 | 0.0 | 11.00 | 4.75 | 11.50 | -1 | 106 | 105 | |
| Post | Post Insulator - 15 kV | 34.69 | -40.00 | 97.9 | 0.0 | 11.00 | 4.75 | 11.50 | -13 | 106 | 93 | |
| Pin | Pin Insulator - 5 kV | 29.69 | 40.00 | 261.7 | 0.0 | 6.00 | 3.50 | 7.50 | 2 | 43 | 45 | |
| Pin | Pin Insulator - 5 kV | 29.69 | -40.00 | 98.3 | 0.0 | 6.00 | 3.50 | 7.50 | -7 | 43 | 36 | |
| Pin | Pin Insulator - 5 kV | 29.69 | -25.00 | 103.1 | 0.0 | 6.00 | 3.50 | 7.50 | -6 | 43 | 38 | |
| Bolt | Single Bolt | 23.33 | 0.00 | 270.0 | 270.0 | 5.00 | 3.00 | 0.00 | 1 | 0 | 1 | |
| Bolt | Single Bolt | 22.00 | 0.00 | 270.0 | 270.0 | 5.00 | 3.00 | 0.00 | 1 | 0 | 1 | |
| Bolt | Single Bolt | 24.75 | 0.00 | 270.0 | 270.0 | 5.00 | 3.00 | 0.00 | 1 | 0 | 1 | |
| Bolt | Single Bolt | 25.35 | 0.00 | 90.0 | 90.0 | 5.00 | 3.00 | 0.00 | -1 | 0 | -1 | |
| Totals: | | | | | | | | | | -21 | 449 | 428 |

| Guy Wire and Brace | Owner | Attach Height (ft) | End Height (ft) | Lead/Span Length (ft) | Wire Diameter (in) | Percent Solid (%) | Lead Angle (deg) | Incline Angle (deg) | Wire Weight (lbs/ft) | Rest Length (ft) | Stretch Length (in) |
|--------------------|-------|--------------------|-----------------|-----------------------|--------------------|-------------------|------------------|---------------------|----------------------|------------------|---------------------|
| EHS 5/16 | Down | 31.25 | 0.00 | 20.00 | 0.312 | 75.00 | 90.0 | 57.2 | 0.205 | 44.13 | 1.11 |
| EHS 5/16 | Down | 26.50 | 0.00 | 20.00 | 0.312 | 75.00 | 90.0 | 52.8 | 0.205 | 39.92 | 1.07 |
| HS 1/4 | Down | 22.75 | 0.00 | 12.00 | 0.25 | 75.00 | 90.0 | 62.0 | 0.121 | 33.11 | 0.83 |

| Guy Wire and Brace (Loads and Reactions) | Elastic Modulus (psi) | Rated Tensile Strength (lbs) | Guy Strength Factor | Allowable Tension (lbs) | Initial Tension (lbs) | Loaded Tension*2 (lbs) | Maximum Tension*2 (lbs) | Applied Tension*3 (lbs) | Vertical Load (lbs) | Shear Load In Guy Dir (lbs) | Shear Load At Report Angle (lbs) | Moment at GL* (ft-lb) | |
|--|-----------------------|------------------------------|---------------------|-------------------------|-----------------------|------------------------|-------------------------|-------------------------|---------------------|-----------------------------|----------------------------------|-----------------------|----------------|
| EHS 5/16 | Down | 11,200 | 0.75 | 8,400 | 700 | 3,169 | 3,169 | 2,769 | 2,327 | 1,501 | -333 | -10,112 | |
| EHS 5/16 | Down | 11,200 | 0.75 | 8,400 | 700 | 3,358 | 3,358 | 2,952 | 2,351 | 1,786 | -397 | -10,252 | |
| HS 1/4 | Down | 4,750 | 0.75 | 3,563 | 700 | 2,025 | 2,025 | 1,776 | 1,568 | 835 | -185 | -4,031 | |
| Totals: | | | | | | | | | | 6,246 | 4,122 | -916 | -24,396 |

O-Calc® Pro Analysis Report

| Anchor/Rod Load Summary | | Owner | Rod Length AGL (in) | Lead Length (ft) | Lead Angle (deg) | Strength of Assembly (lbs) | Anchor/Rod Strength Factor | Allowable Load (lbs) | Max Load ² (lbs) | Load at Pole MCU ³ (lbs) | Max Required Capacity ² (%) |
|-----------------------------|--|-------|---------------------|------------------|------------------|----------------------------|----------------------------|----------------------|-----------------------------|-------------------------------------|--|
| Single - 12" - Soil Class 4 | | | 0.00 | 20.00 | 90.0 | 25,000 | 0.75 | 18,750 | 6,522 | 5,718 | 34.8 |
| Single - 12" - Soil Class 4 | | | 0.00 | 12.00 | 90.0 | 25,000 | 0.75 | 18,750 | 2,025 | 1,776 | 10.8 |

| Pole Buckling | | | | | | | | | | | | | |
|-------------------|------------------------------|--|--------------------------------|--------------------------------------|----------------------|---------------------|-----------------------------|--------------------|-------------------|----------------------|--|---------------------------------------|--------------------------------|
| Buckling Constant | Buckling Column Height* (ft) | Buckling Section Height (% Buckling Col. Hgt.) | Buckling Section Diameter (in) | Minimum Buckling Diameter at GL (in) | Diameter at Tip (in) | Diameter at GL (in) | Modulus of Elasticity (psi) | Pole Density (pcf) | Ice Density (pcf) | Pole Tip Height (ft) | Buckling Load Capacity at Height (lbs) | Buckling Load Applied at Height (lbs) | Buckling Load Factor of Safety |
| 0.71 | 26.15 | 33.98 | 10.62 | 17.00 | 7.32 | 11.68 | 1.60e+6 | 60.00 | 57.00 | 36.75 | 99,610 | 999.96 | 10.42 |

DOUGLAS FIR POLE SIZING CHART

| Class | H-6 | H-5 | H-4 | H-3 | H-2 | H-1 | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------------------------|---|------|------|------|------|------|------|------|------|------|------|------|
| Minimum Circumference at Top (Inches) | 39 | 37 | 35 | 33 | 31 | 29 | 27 | 25 | 23 | 21 | 19 | 17 |
| Length of Pole (Feet) | Minimum Circumference at 6 feet from Butt (Inches) | | | | | | | | | | | |
| 20 | - | - | - | - | - | - | 31.0 | 29.0 | 27.0 | 25.0 | 23.0 | 21.0 |
| 25 | - | - | - | - | - | - | 33.5 | 31.5 | 29.5 | 27.5 | 25.5 | 23.0 |
| 30 | - | - | - | - | - | - | 36.5 | 34.0 | 32.0 | 29.5 | 27.5 | 25.0 |
| 35 | - | - | - | - | 43.5 | 41.5 | 39.0 | 36.5 | 34.0 | 31.5 | 29.0 | 27.0 |
| 40 | - | - | 51.0 | 48.5 | 46.0 | 43.5 | 41.0 | 38.5 | 36.0 | 33.5 | 31.0 | 28.5 |
| 45 | 58.5 | 56.0 | 53.5 | 51.0 | 48.5 | 45.5 | 43.0 | 40.5 | 37.5 | 35.0 | 32.5 | 30.0 |
| 50 | 61.0 | 58.5 | 55.5 | 53.0 | 50.5 | 47.5 | 45.0 | 42.0 | 39.0 | 36.5 | 34.0 | - |
| 55 | 63.5 | 60.5 | 58.0 | 55.0 | 52.0 | 49.5 | 46.5 | 43.5 | 40.5 | 38.0 | - | - |
| 60 | 65.5 | 62.5 | 59.5 | 57.0 | 54.0 | 51.0 | 48.0 | 45.0 | 42.0 | 39.0 | - | - |
| 65 | 67.5 | 64.5 | 61.5 | 58.5 | 55.5 | 52.5 | 49.5 | 46.5 | 43.5 | 40.5 | - | - |
| 70 | 69.0 | 66.5 | 63.5 | 60.5 | 57.0 | 54.0 | 51.0 | 48.0 | 45.0 | 41.5 | - | - |
| 75 | 71.0 | 68.0 | 65.0 | 62.0 | 59.0 | 55.5 | 52.5 | 49.0 | 46.0 | - | - | - |
| 80 | 72.5 | 69.5 | 66.5 | 63.5 | 60.0 | 57.0 | 54.0 | 50.5 | 47.0 | - | - | - |
| 85 | 74.5 | 71.5 | 68.0 | 65.0 | 61.5 | 58.5 | 55.0 | 51.5 | 48.0 | - | - | - |
| 90 | 76.0 | 73.0 | 69.5 | 66.5 | 63.0 | 59.5 | 56.0 | 53.0 | 49.0 | - | - | - |
| 95 | 77.5 | 74.5 | 71.0 | 67.5 | 64.5 | 61.0 | 57.0 | 54.0 | - | - | - | - |
| 100 | 79.0 | 76.0 | 72.5 | 69.0 | 65.5 | 62.0 | 58.5 | 55.0 | - | - | - | - |
| 105 | 80.5 | 77.0 | 74.0 | 70.5 | 67.0 | 63.0 | 59.5 | 56.0 | - | - | - | - |
| 110 | 82.0 | 78.5 | 75.0 | 71.5 | 68.0 | 64.5 | 60.5 | 57.0 | - | - | - | - |
| 115 | 83.5 | 80.0 | 76.5 | 72.5 | 69.0 | 65.5 | 61.5 | 58.0 | - | - | - | - |
| 120 | 85.0 | 81.0 | 77.5 | 74.0 | 70.0 | 66.5 | 62.5 | 59.0 | - | - | - | - |
| 125* | 86.0 | 82.5 | 78.5 | 75.0 | 71.0 | 67.5 | 63.5 | 59.5 | - | - | - | - |
| | H-6 | H-5 | H-4 | H-3 | H-2 | H-1 | 1 | 2 | 3 | 4 | 5 | 6 |

* 125' Availability: Untreated Only



at&t

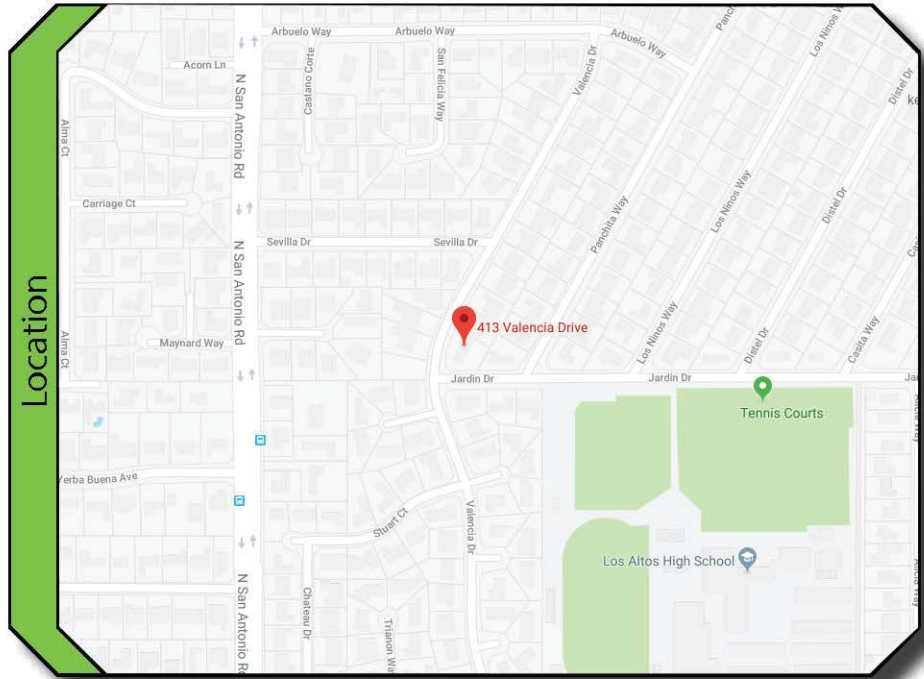
CRAN_RSFR_LOSA0_03

421 Valencia Drive
Los Altos, CA 94022



SURESITE
Infrastructure experts. Small cell leaders.

View 1 of 1



November 27, 2018

Prepared by: LEL

AT&T Future Build-out Sites



| Name | Address |
|----------|---------------------|
| LOSA0_01 | 141 Almond Ave |
| LOSA0_02 | 687 Linden Ave |
| LOSA0_03 | 421 Valencia |
| LOSA0_04 | 33 Pine |
| LOSA0_05 | 49 San Juan |
| LOSA0_06 | 791 Los Altos |
| LOSA0_07 | 98 Eleanor |
| LOSA0_08 | 182 Garland |
| LOSA0_09 | 491 Patrick Way |
| LOSA0_10 | 300 Los Altos Ave |
| LOSA0_11 | 130 Los Altos |
| LOSA0_12 | 356 Blue Oak |
| SJWE_007 | 5000 El Camino Real |
| SJWE_012 | 4294 El Camino Real |



at&t

SITE ID: CRAN_RSFR_LOSAO_003
 SITE ADDRESS: ROW ADJCT TO 421 VALENCIA DR
 LOS ALTOS, CA 94022
 SITE TYPE: PG&E POLE (PM# 114474320)
 POLE OWNER: PG&E
 FA LOCATION: 14816592
 USID: 198294



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



SURESITE
 Infrastructure experts. Small cell leaders.
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614



PRECISION DESIGN & DRAFTING, INC.
 Phone: (530) 823-6546 www.pdnd.com
 11768 ATWOOD RD, SUITE 20 AUBURN, CA 95603



CRAN_RSFR_LOSAO_003
 ROW ADJCT TO 421 VALENCIA DR
 LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 11/13/18 | CD 90% |
| | 05/03/19 | CD 100% |
| | | |
| | | |

DRAWN BY: R. MARTINEZ
 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 05/03/19

SHEET TITLE:
 TITLE SHEET
 SHEET NUMBER:
 T-1

SITE INFORMATION

APPLICANT: AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583

AGENT: SURESITE
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

APN: ACROSS FROM 170-47-016

SITE ADDRESS: 421 VALENCIA DR
 LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 20.74" N (37.38904) NAD 83

LONGITUDE: 122° 06' 42.82" W (-122.111894) NAD 83

GROUND ELEVATION: ± 133.2' AMSL

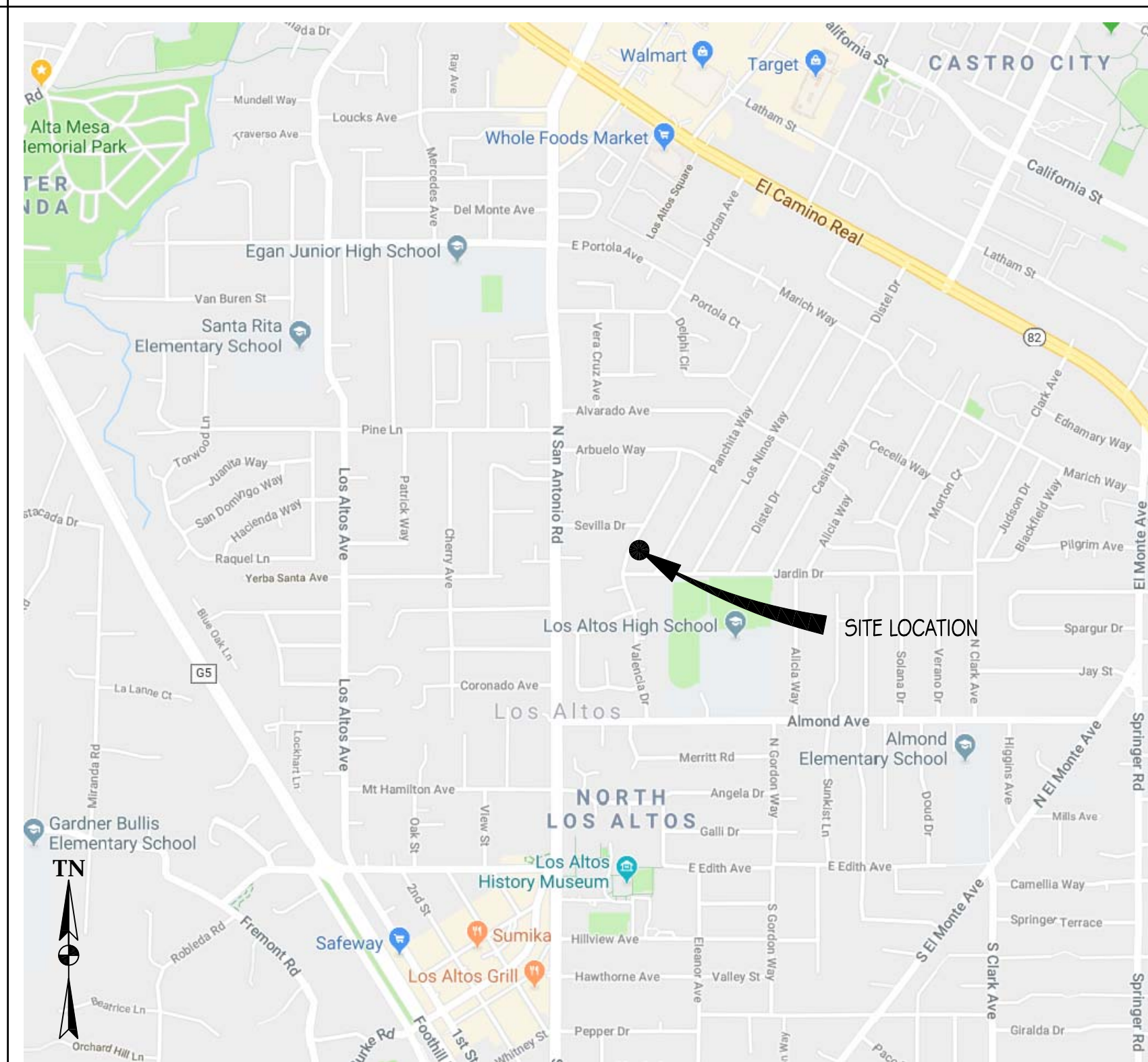
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100509189

Street CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT:
 SURESITE
 36 EXECUTIVE PARK, #210
 IRVINE, CA 92614
 (949) 278-2962
 L.MEINERS@SURE-SITE.COM

PROJECT MANAGERS:
 CHRIS JOHNSON
 ERICSSON
 6140 STONERIDGE MALL RD, SUITE 350
 PLEASANTON, CA 94588
 (408) 796-6443
 CHRISTOPHER.JOHNSON@ERICSSON.COM

CONSTRUCTION MANAGER:
 TBD

ARCHITECT/ENGINEER OF RECORD:
 BRET McCOMB
 PRECISION DESIGN & DRAFTING, INC
 11768 ATWOOD ROAD, SUITE #20
 AUBURN, CA 95603
 (530) 823-6546
 BRET@PDND.COM

RF MANAGER:
 TBD

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT OF A (N) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

- INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON GO95 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRU 11 & (1) 4415 EA W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2 CYLINDRICAL ANTENNA.
- ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL.
- UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.

DRAWING INDEX

| SHEET NO: | SHEET TITLE |
|-----------|--|
| T-1 | TITLE SHEET |
| T-2 | GENERAL NOTES, LEGEND, & ABBREVIATIONS |
| A-1 | SITE PLAN |
| A-2 | EQUIPMENT PLAN & ANTENNA PLANS |
| A-3 | ELEVATIONS |
| A-4 | ELEVATIONS |
| A-5 | DETAILS |
| A-6 | DETAILS |
| E-1 | SINGLE-LINE DIAGRAM & DETAILS |
| E-2 | GROUNDING DIAGRAMS |

CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
- 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 - 2016 CALIFORNIA BUILDING CODE
 - 2016 CALIFORNIA ELECTRICAL CODE
 - 2016 CALIFORNIA MECHANICAL CODE
 - 2016 CALIFORNIA PLUMBING CODE
 - 2016 CALIFORNIA FIRE CODE
 - LOCAL BUILDING CODES
 - CITY/COUNTY ORDINANCES
 - ANSI/EIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
 TO: 413 VALENCIA DR, LOS ALTOS, CA 94022

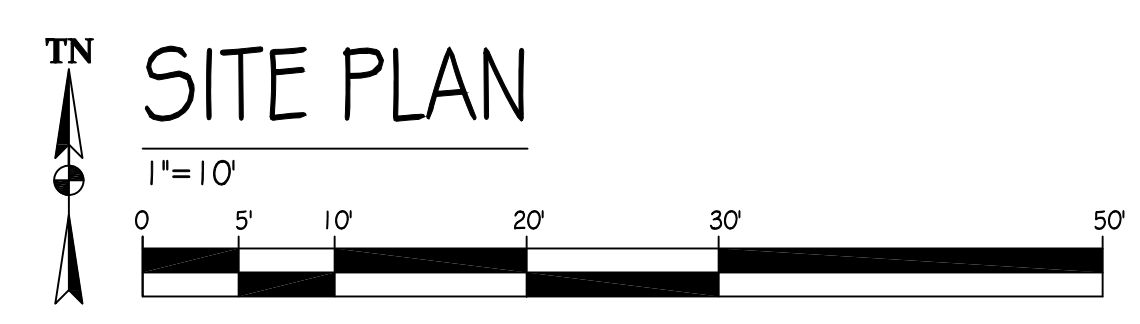
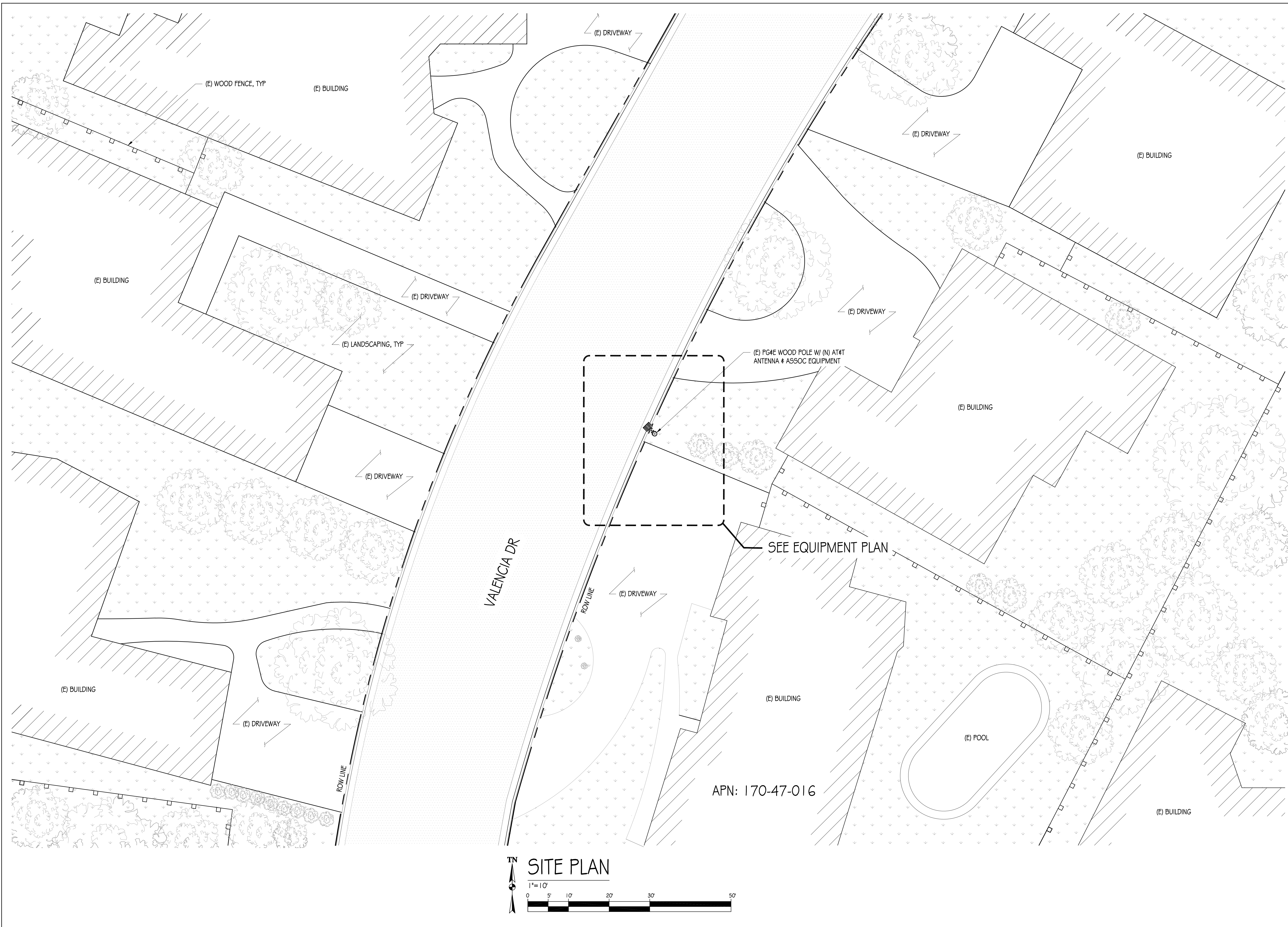
- HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
- TURN RIGHT ONTO SUNSET DR 0.1 MI
- USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
- USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
- MERGE ONTO I-680 S 25.5 MI
- TAKE EXIT 9 FOR JACKLIN ROAD 0.3 MI
- TURN RIGHT ONTO JACKLIN RD 0.9 MI
- CONTINUE ONTO N ABEL ST 0.7 MI
- TURN RIGHT ONTO MARYLINN DR 0.3 MI
- TURN LEFT ONTO N ABBOTT AVE 0.6 MI
- CONTINUE TO FOLLOW CA-237 W 0.4 MI
- USE THE LEFT 2 LANES TO TAKE THE CA-237 W RAMP TO MTN VIEW 0.3 MI
- CONTINUE ONTO CA-237 W
- CONTINUE ON EL CAMINO REAL. DRIVE TO VALENCIA DR IN LOS ALTOS
- END AT: 413 VALENCIA DR, LOS ALTOS, CA 94022



ESTIMATED TIME: 84 MIN ESTIMATED DISTANCE: 41.4 MI




ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

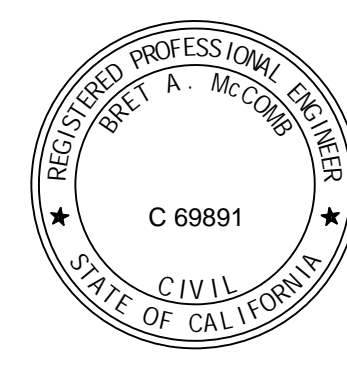


Infrastructure experts. Smaller cell towers.
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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ROW ADJCT TO 421 VALENCIA DR
LOS ALTOS, CA 94022

| ISSUE STATUS | | |
|--------------|----------|-------------|
| △ | DATE | DESCRIPTION |
| | 11/13/18 | CD 90% |
| | 05/03/19 | CD 100% |
| | | |
| | | |

| | |
|---------------|-------------|
| DRAWN BY: | R. MARTINEZ |
| CHECKED BY: | T. DICARLO |
| APPROVED BY: | B. McCOMB |
| DATE: | 05/03/19 |
| SHEET TITLE: | |
| SITE PLAN | |
| SHEET NUMBER: | |
| A-1 | |

VALENCIA DR

(E) PG&E WOOD POLE W/ (N) AT&T ANTENNA & ASSOC EQUIPMENT

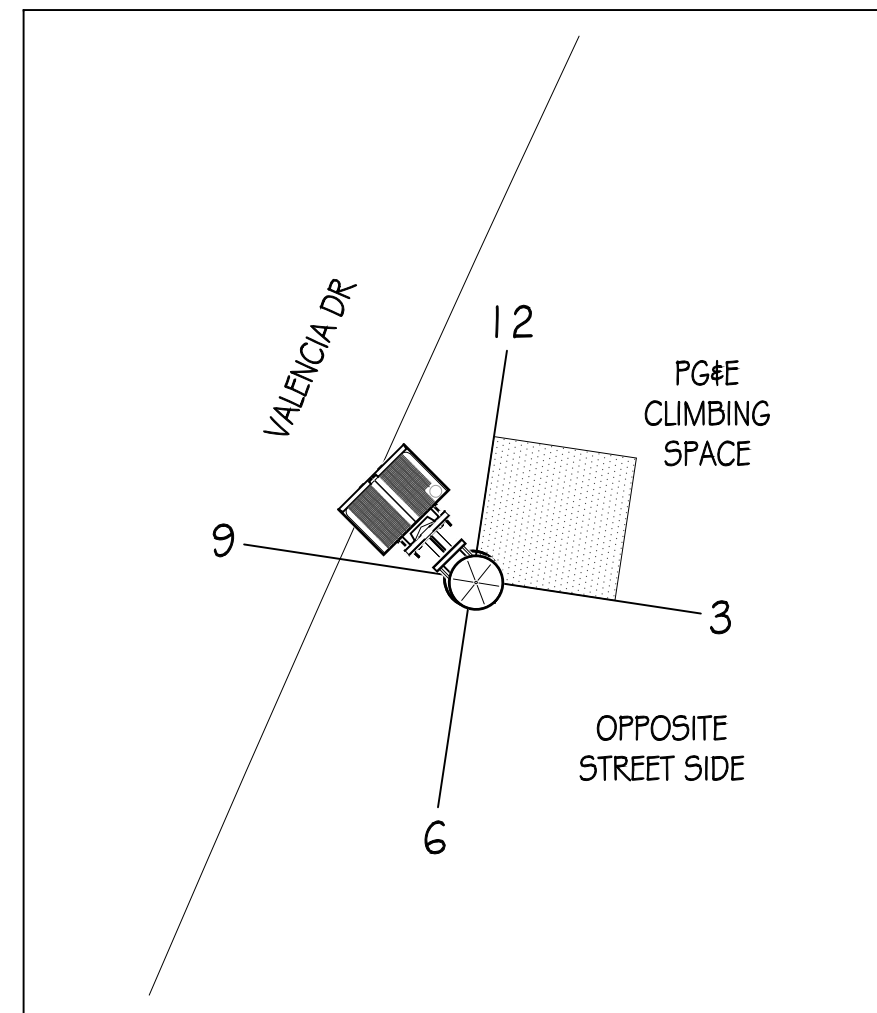
SEE ANTENNA PLANS

(E) LANDSCAPING

(E) DRIVEWAY

ROW LINE

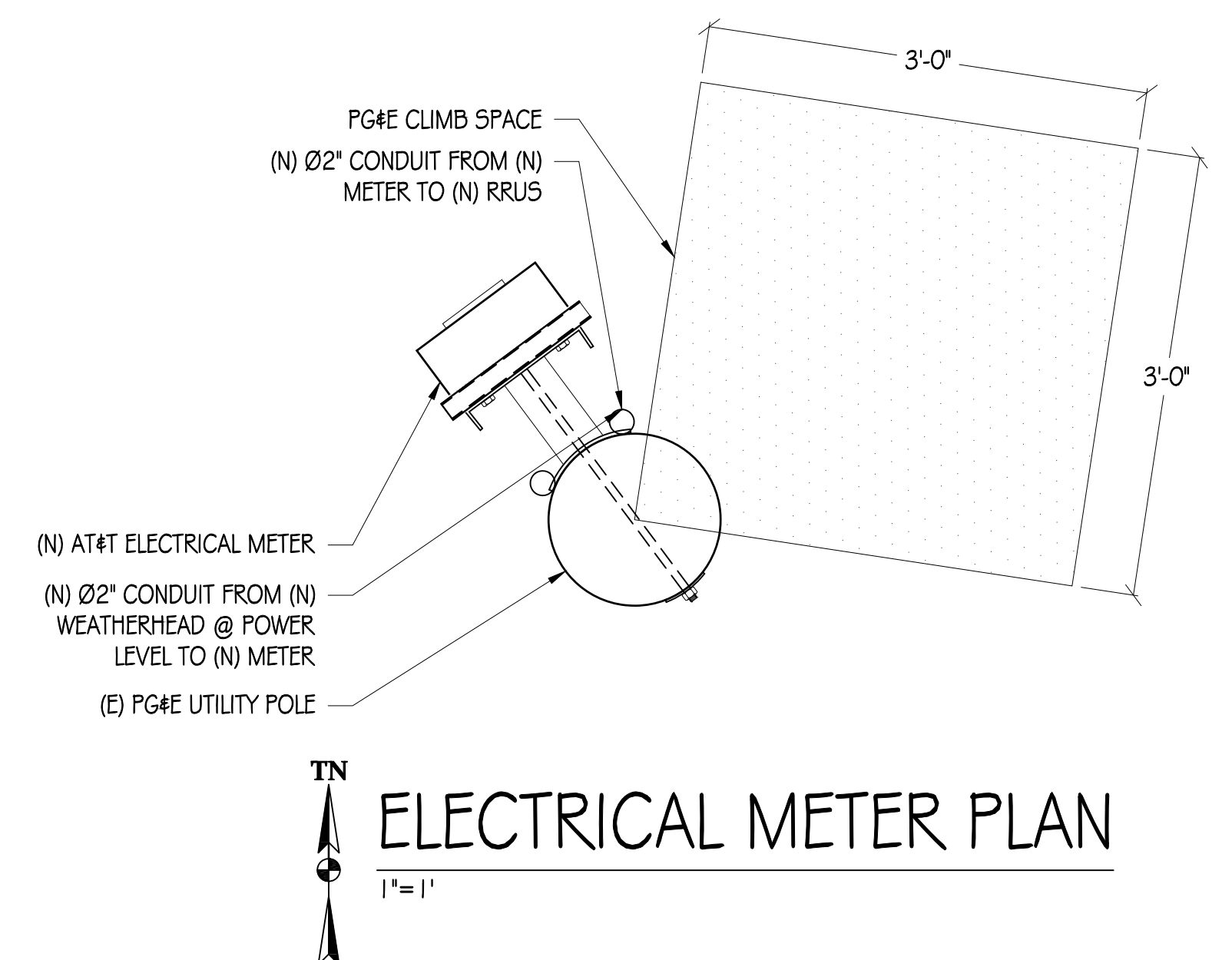
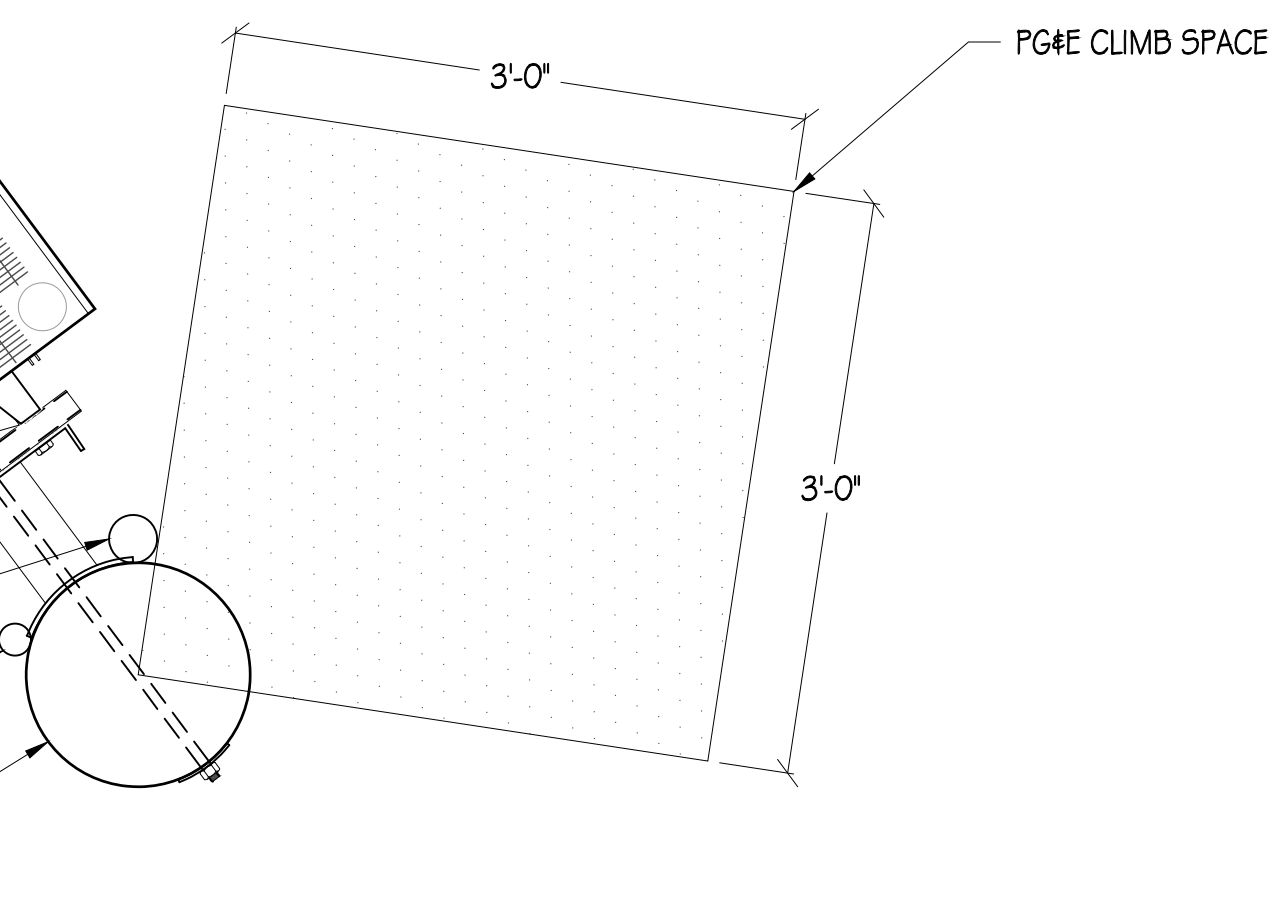
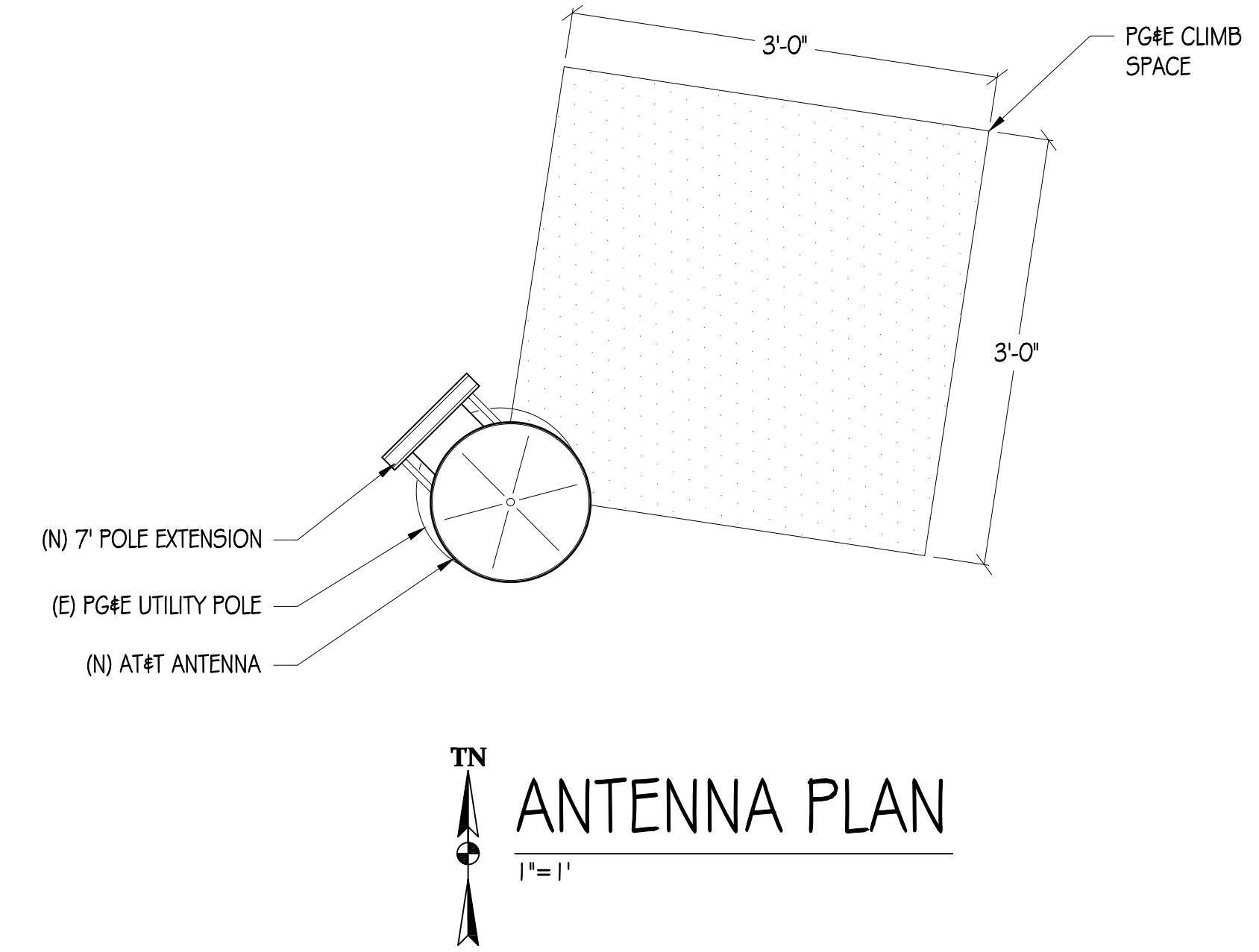
TN
EQUIPMENT PLAN
1/2"=1'



(N) MACRO SHROUD CONCEALMENT BOX CONTAINING (1) RRU5-11 & (1) RRU5-4415 EA W/ PSU UNITS, & (2) (N) DIPLEXERS

(N) Ø3" COAX CONDUIT FROM (N) RRU5 TO (N) ANTENNA
(N) Ø2" CONDUIT FROM (N) WEATHERHEAD @ POWER LEVEL TO (N) METER
(E) PG&E UTILITY POLE

TN
RRH PLAN
1"=1'



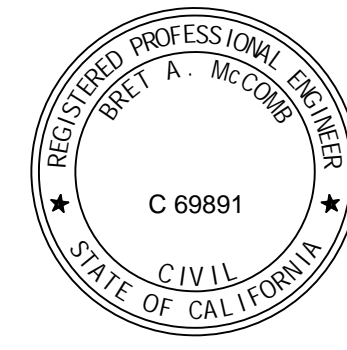
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & DRAFTING, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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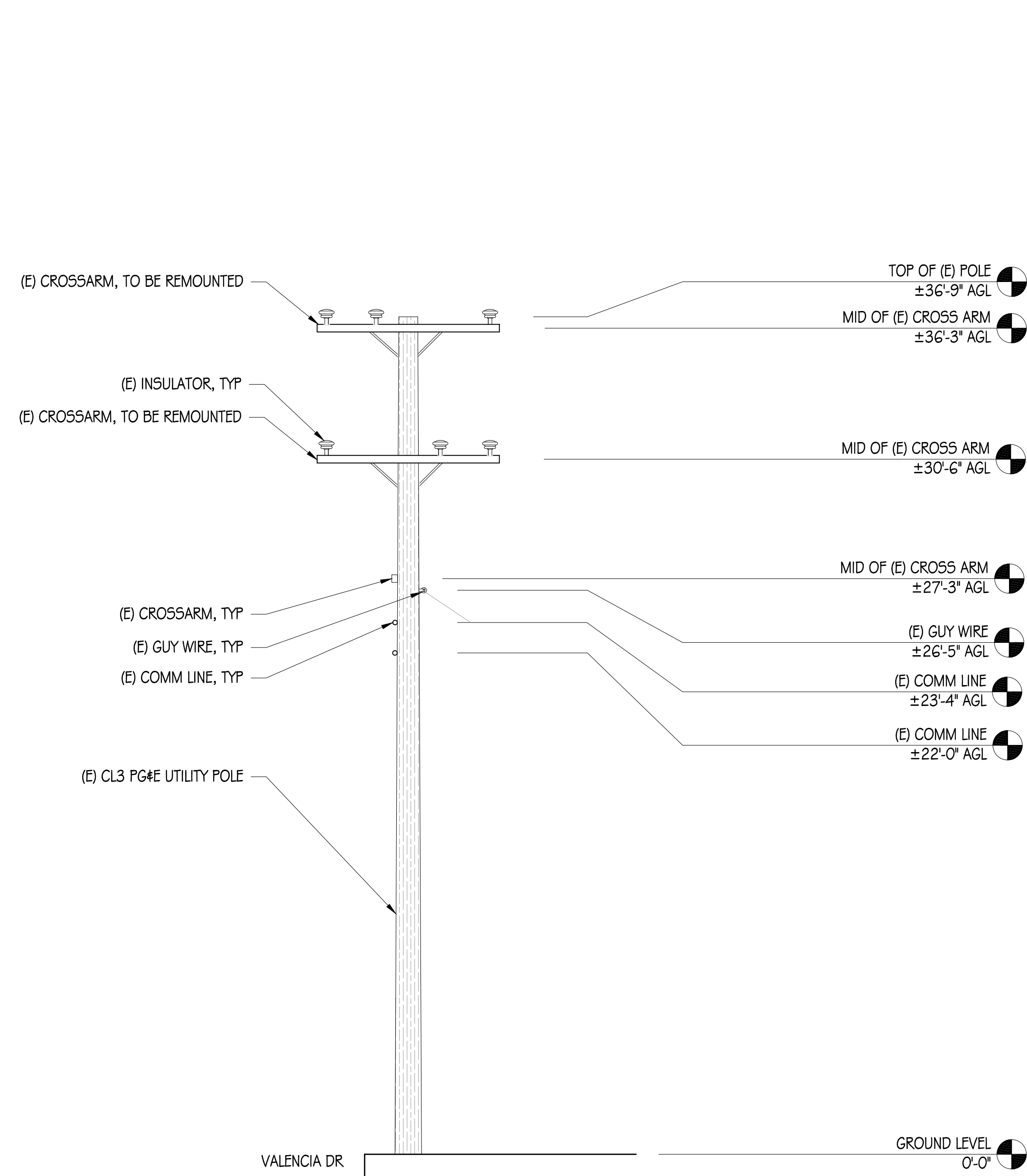
ROW ADJCT TO 421 VALENCIA DR
LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 11/13/18 | CD 90% |
| | 05/03/19 | CD 100% |

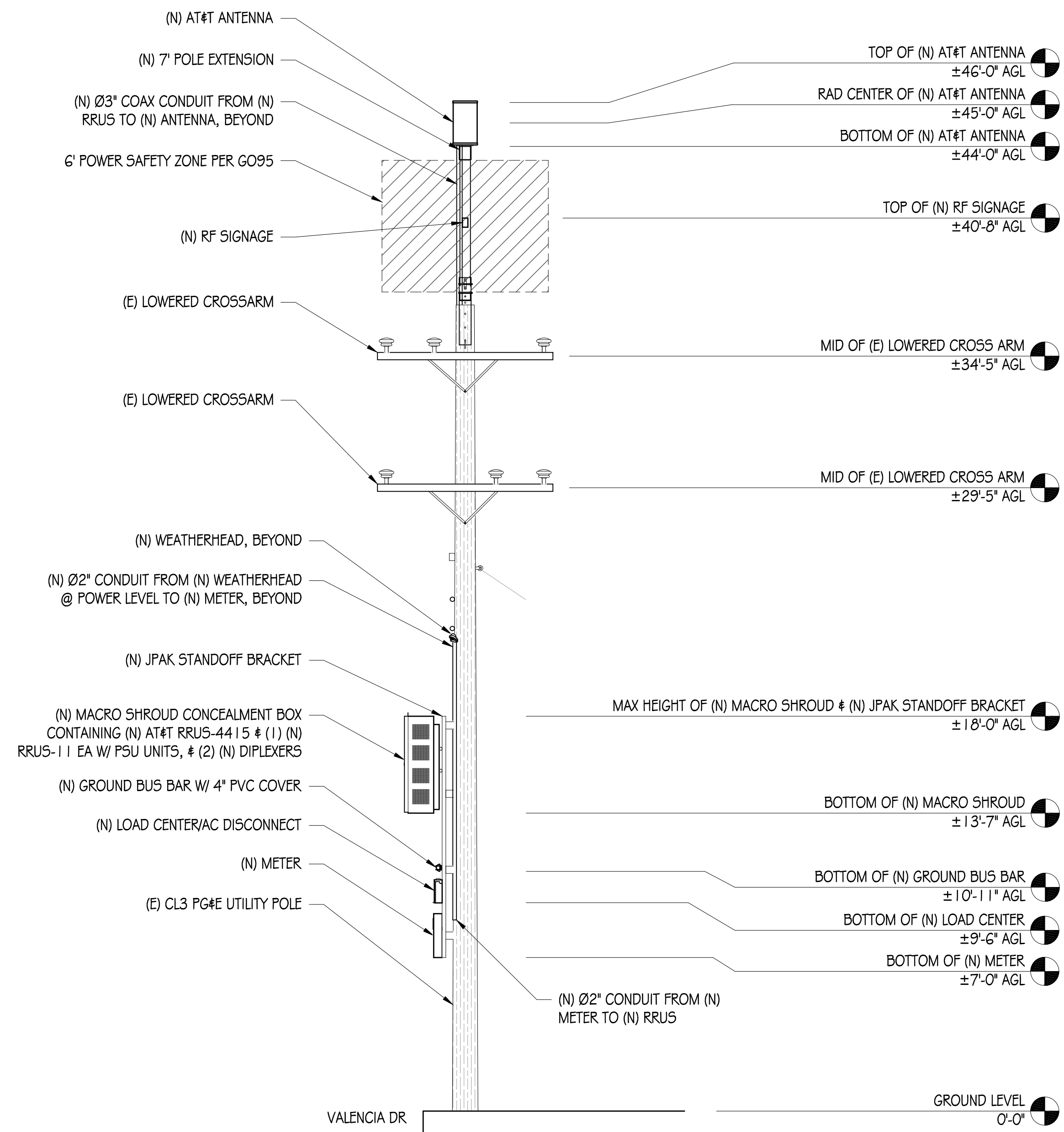
DRAWN BY: R. MARTINEZ
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 05/03/19
SHEET TITLE:

EQUIPMENT PLAN & ANTENNA PLANS
SHEET NUMBER
A-2



EXISTING SOUTHWEST ELEVATION

1/4" = 1'-0"



NEW SOUTHWEST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
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CRAN_RSFR_LOSAO_003

ROW ADJCT TO 421 VALENCIA DR
LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 11/13/18 | CD 90% |
| | 05/03/19 | CD 100% |
| | | |
| | | |

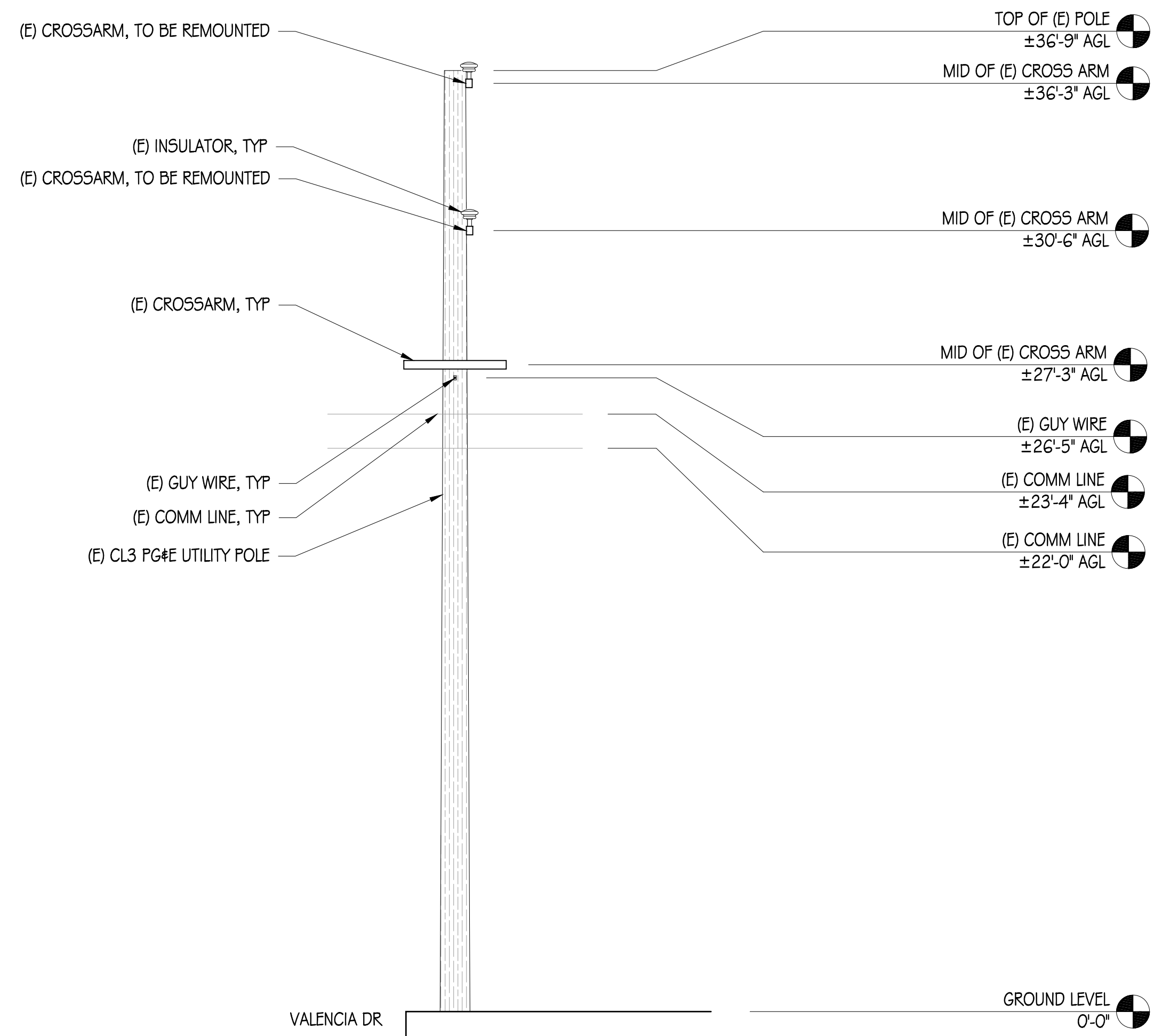
DRAWN BY: R. MARTINEZ
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 05/03/19

SHEET TITLE:

ELEVATIONS

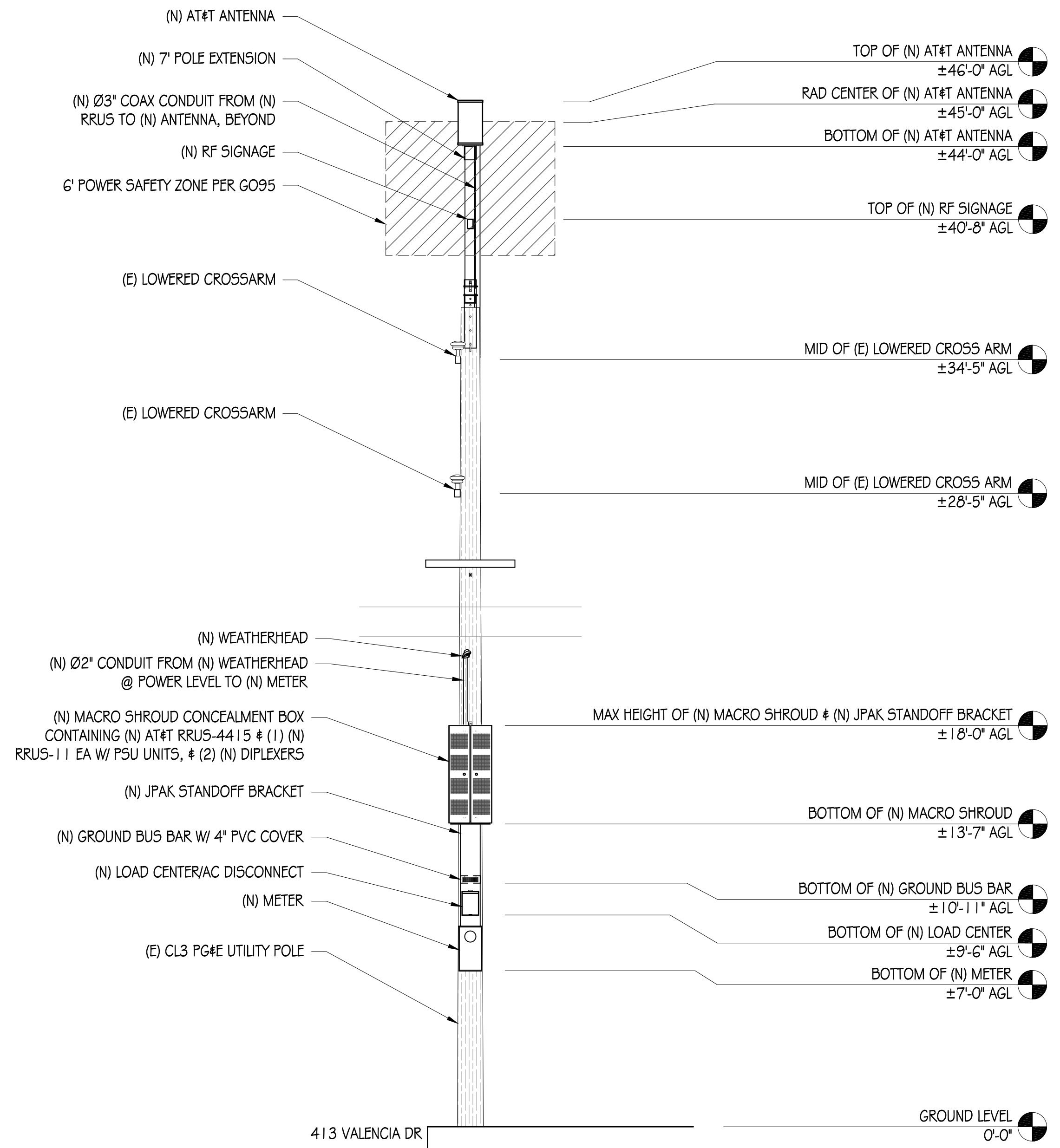
SHEET NUMBER

A-3



EXISTING EAST ELEVATION

1/4" = 1'-0"



EXISTING EAST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

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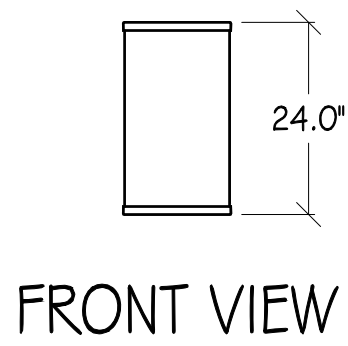
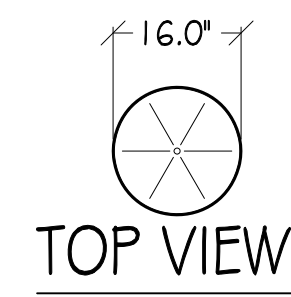
A-4

POLE-TOP EXTENSION NOTES:

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

KMW FX-OM2L1 OH2-06T

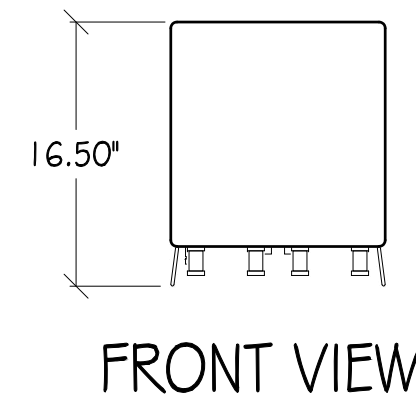
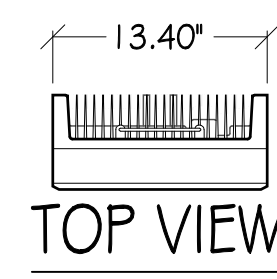
WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



1 ANTENNA
1/2"=1"

ERICSSON RRUS-4415

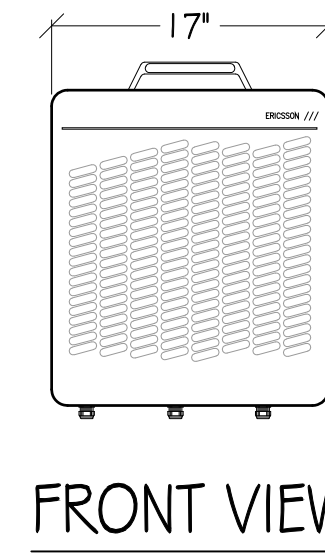
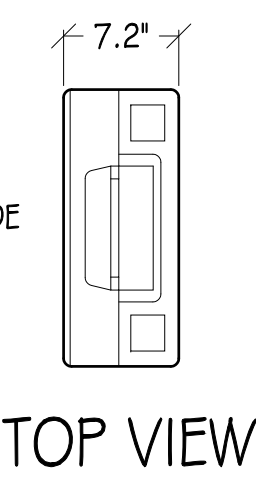
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



2 RRUS-4415 DETAIL
1"=1"

ERICSSON RRUS-11

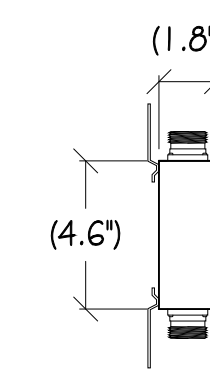
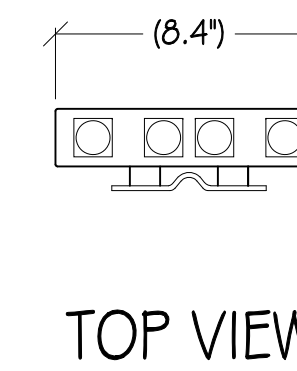
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



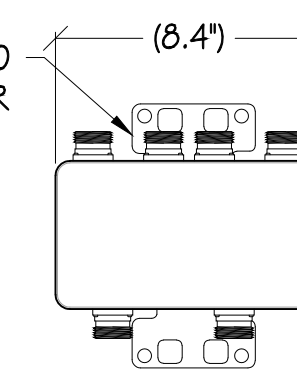
3 RRUS-11 DETAIL
1"=1"

**COMMSCOPE
CBC1923T-4310/
E11F13P06**

COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP

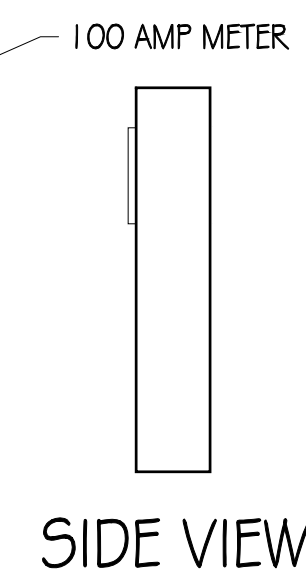
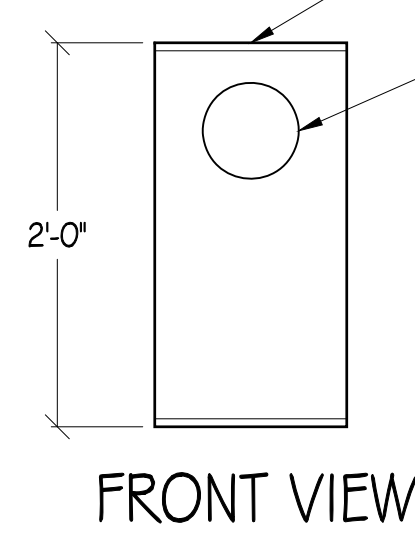
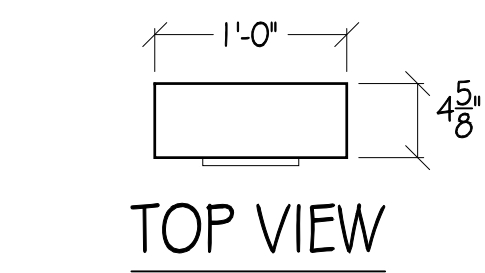


SIDE VIEW



FRONT VIEW

4 DIPLEXER DETAIL
1"=6"



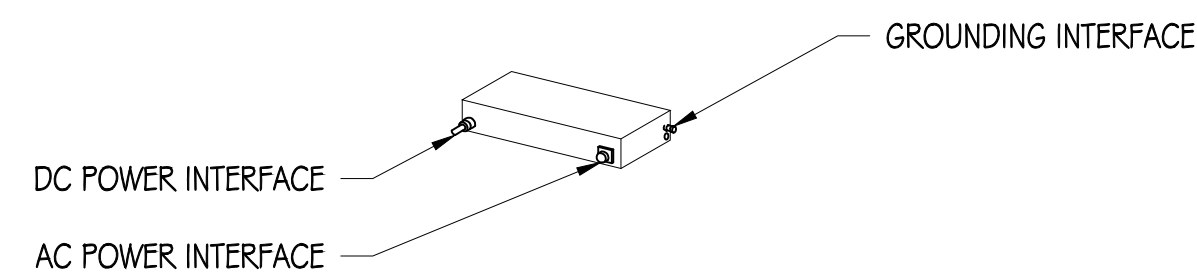
5 METER DETAIL
1"=1"

COOPER B-LINE 114TB ELECTRICAL PANEL TO MEET COMMERCIAL PG&E REQUIREMENTS WITH TEST BYPASS

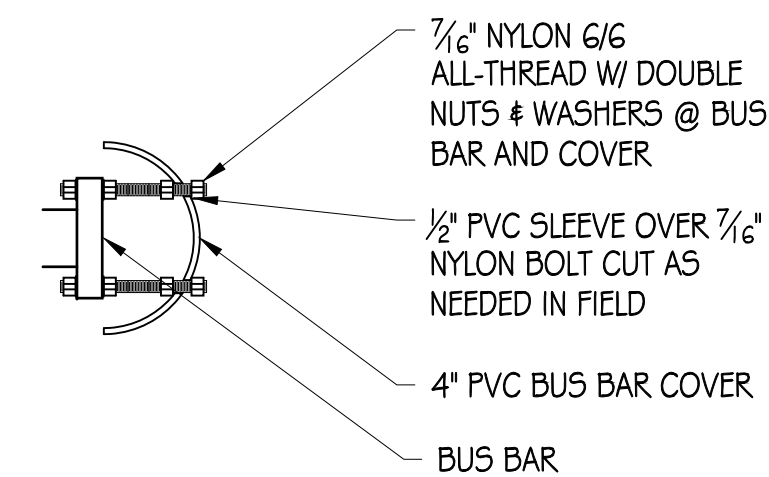
100 AMP METER

ERICSSON PSU AC 08

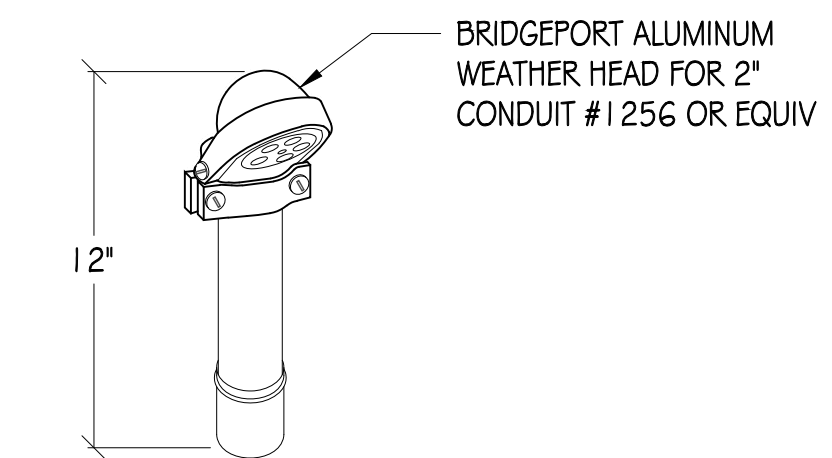
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



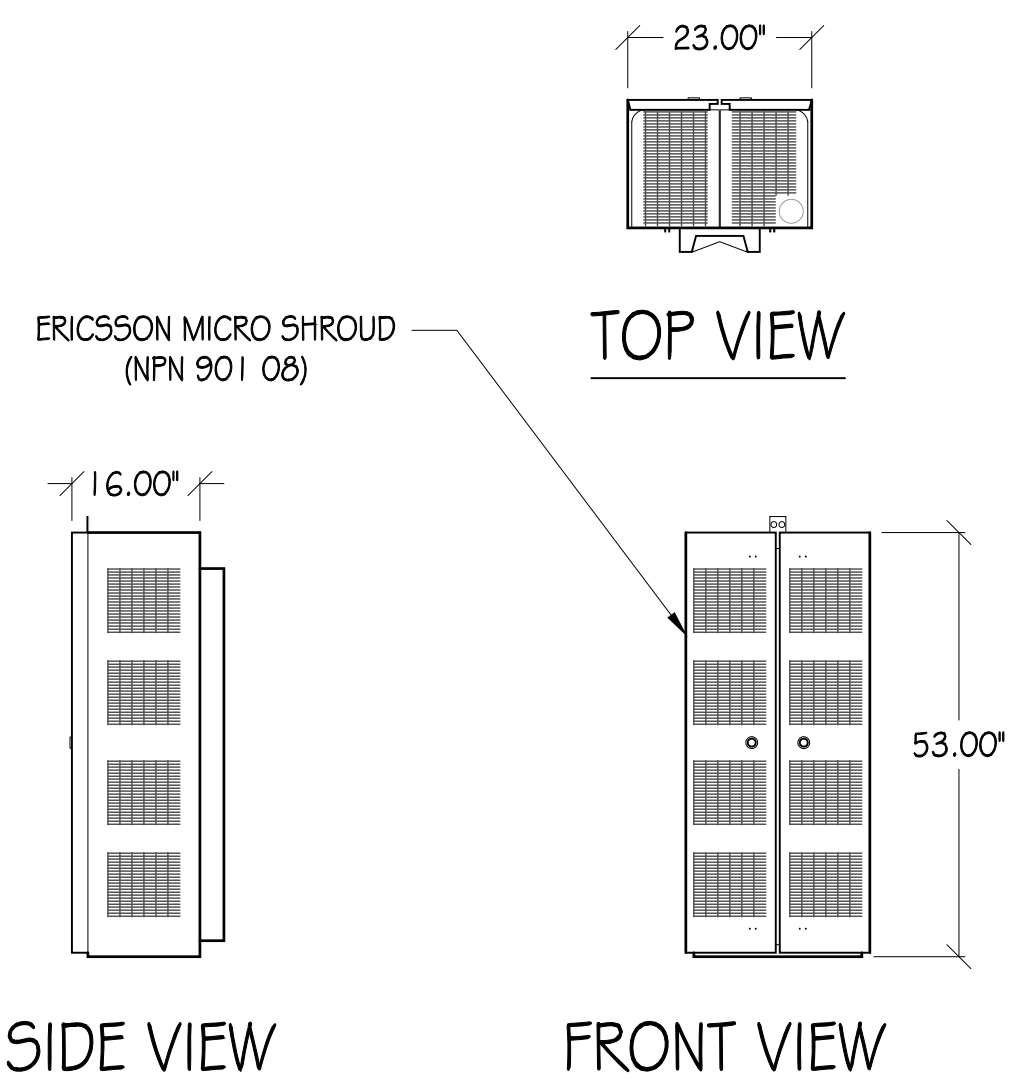
6 AC POWER MODULE
NTS



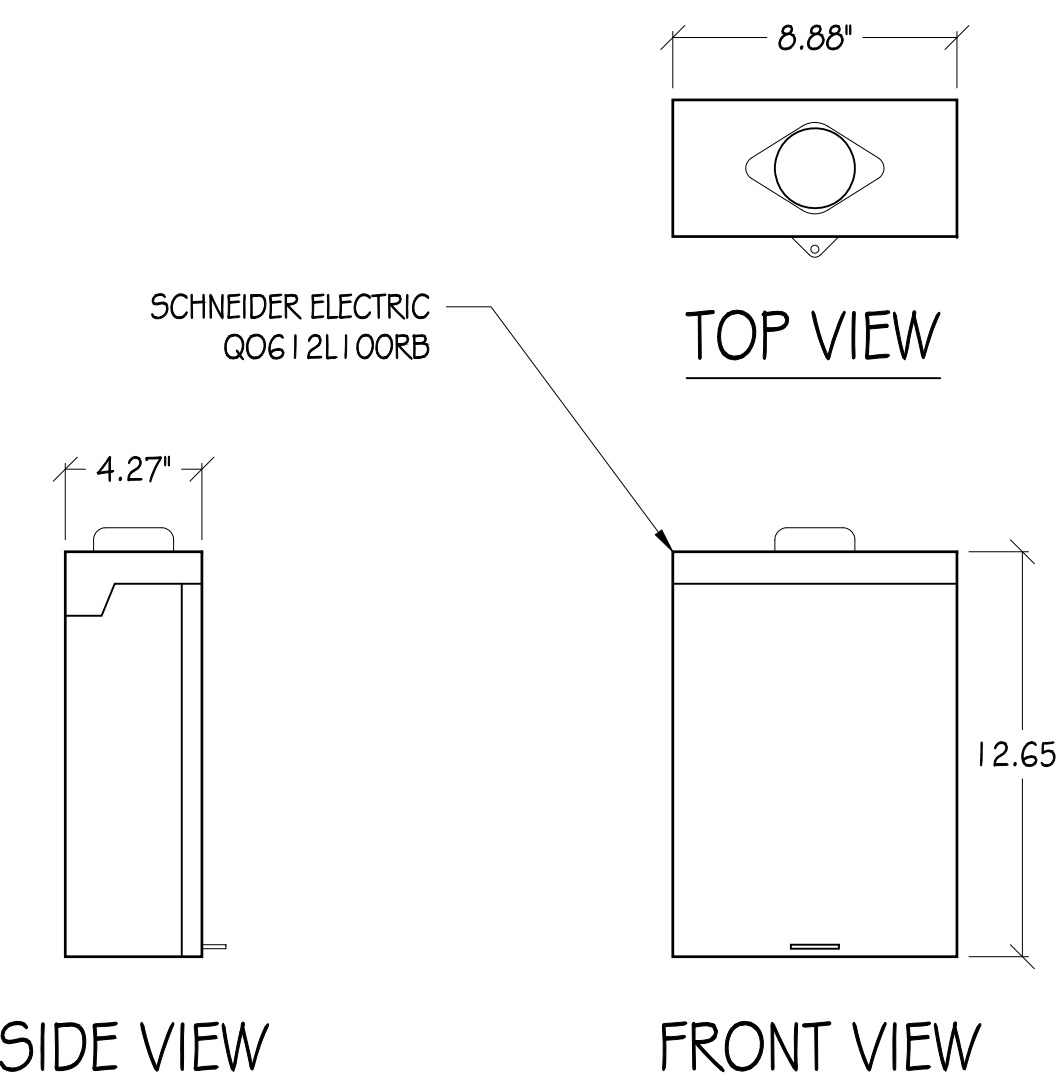
7 BUS BAR COVER
6"=1"



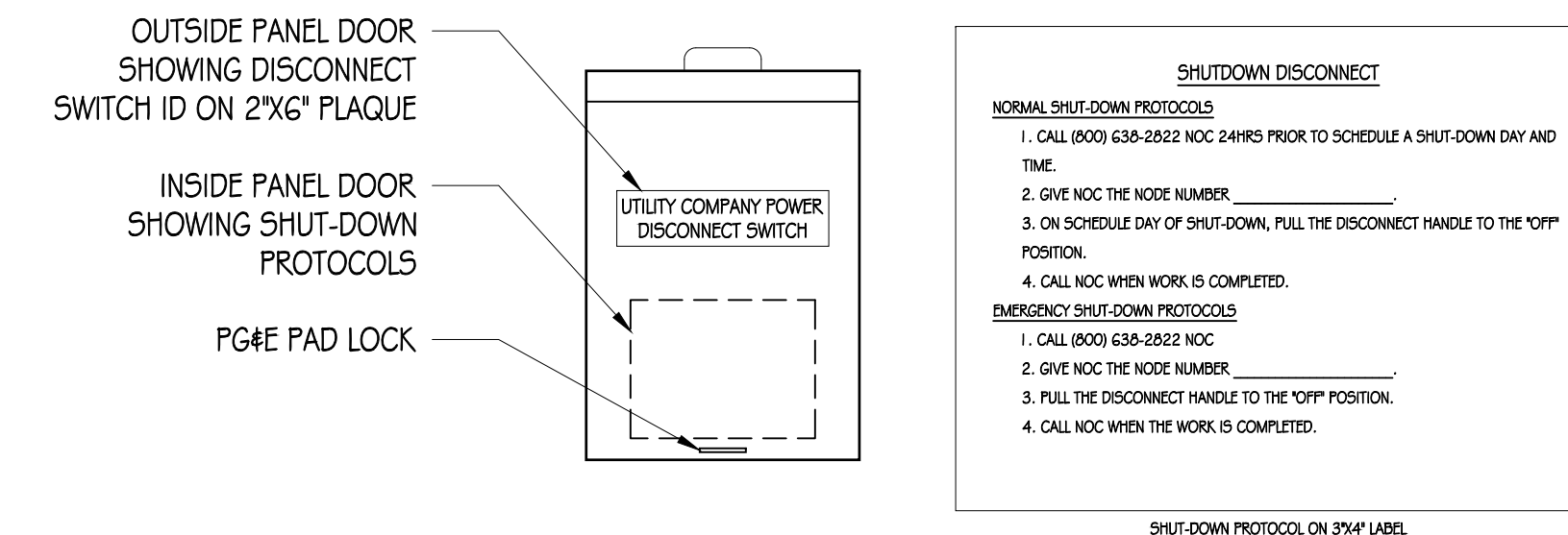
8 WEATHER HEAD
NTS



9 MICRO SHROUD CONCEALMENT
1/2"=1"



10 LOAD CENTER/AC DISCONNECT
1"=6"



11 DISCONNECT SIGNAGE
3"=1"

- NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT



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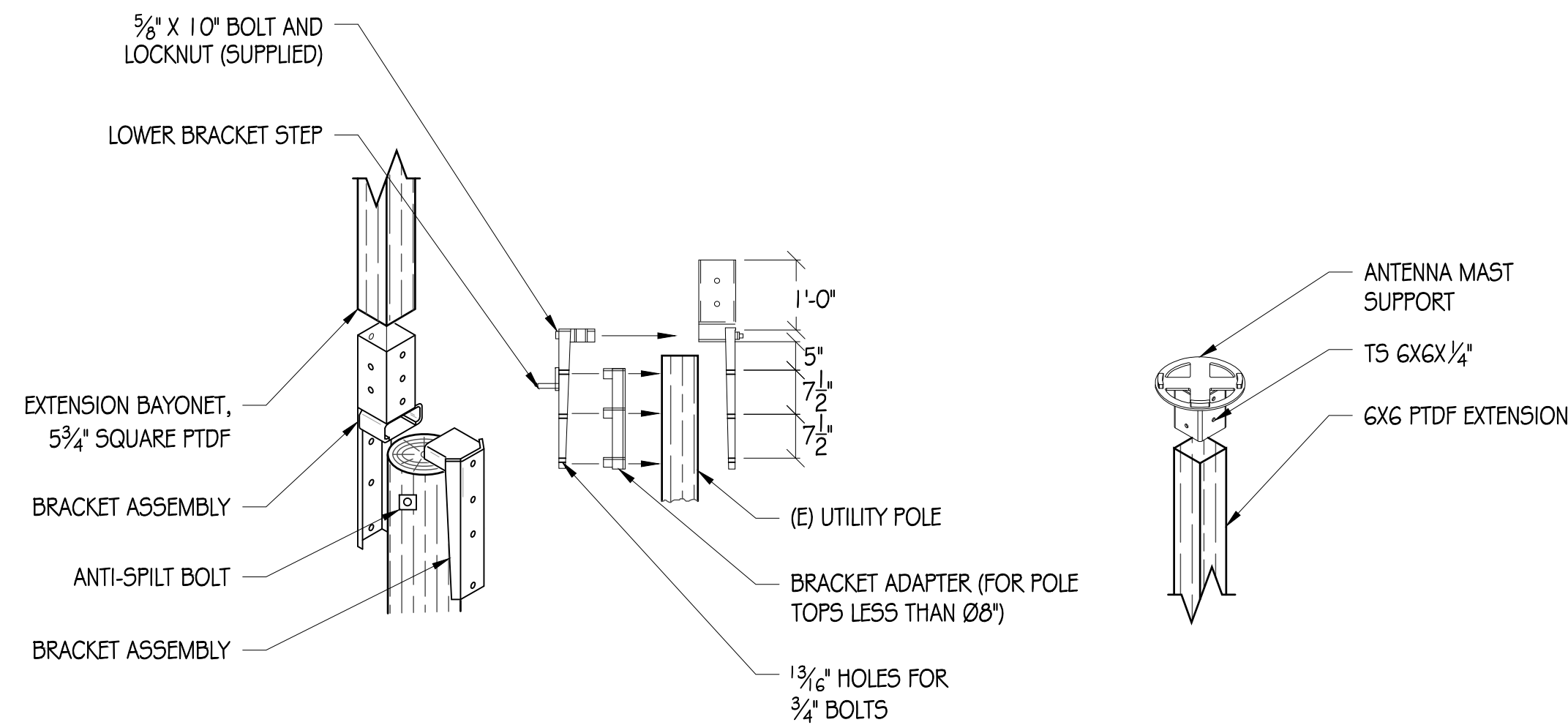
DETAILS

SHEET NUMBER

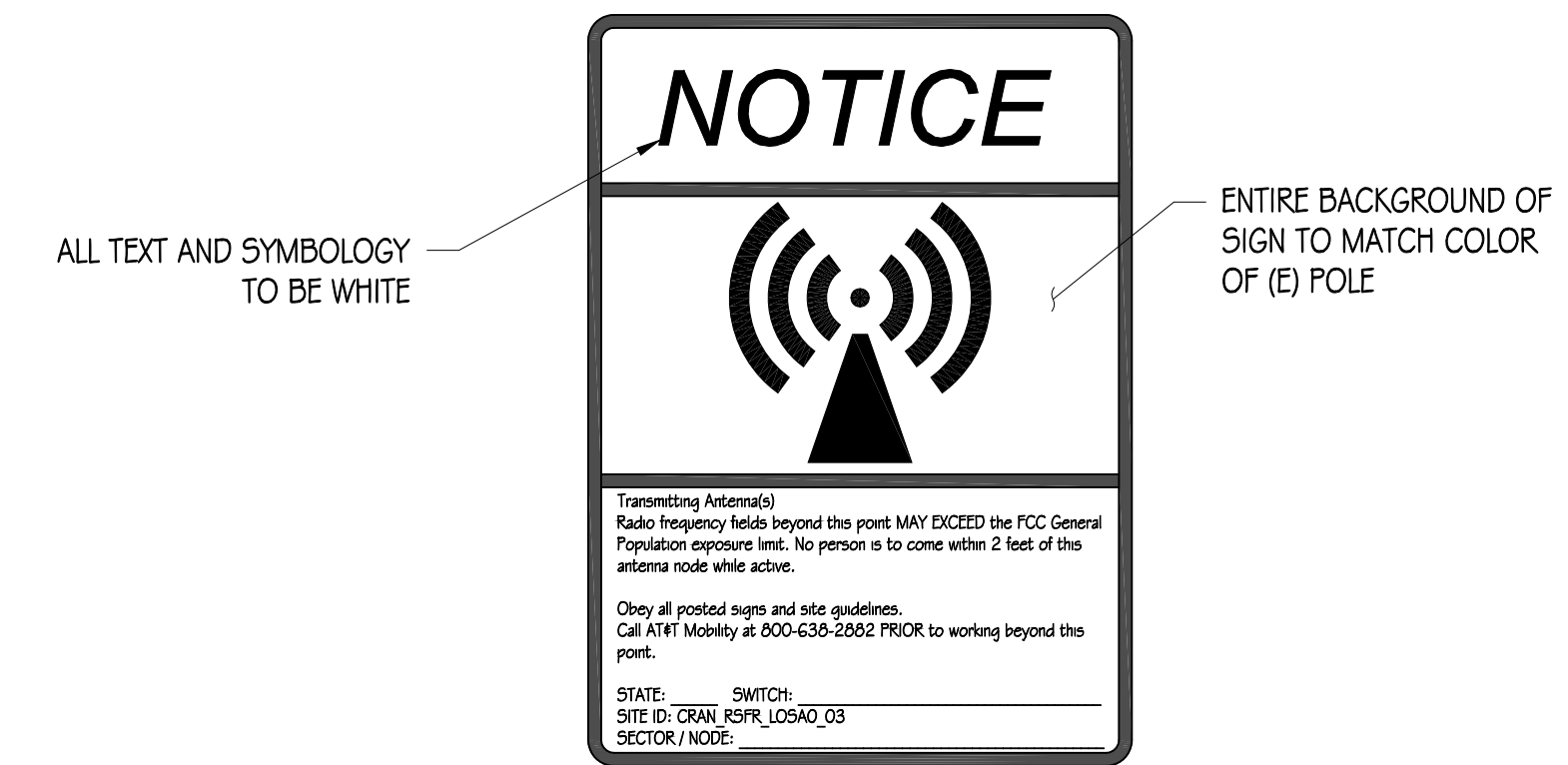
A-5

STRUCTURAL STEEL NOTES:

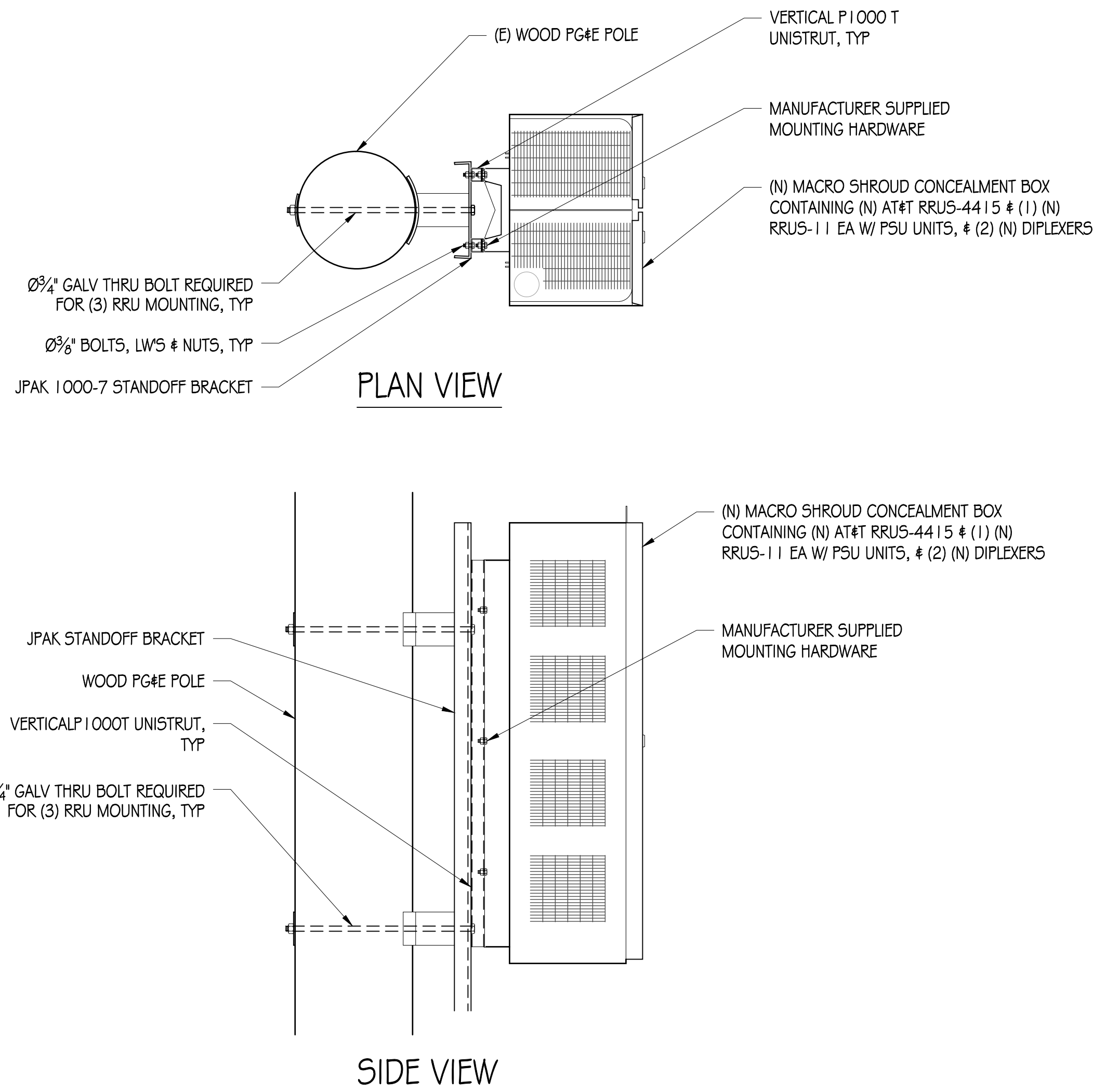
- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEF) SHAPES TO BE ASTM A992 ($F_y=50,000$ PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B ($F_y=46,000$ PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B ($F_y=35,000$ PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE $1/16"$ LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE $3/4"$ (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



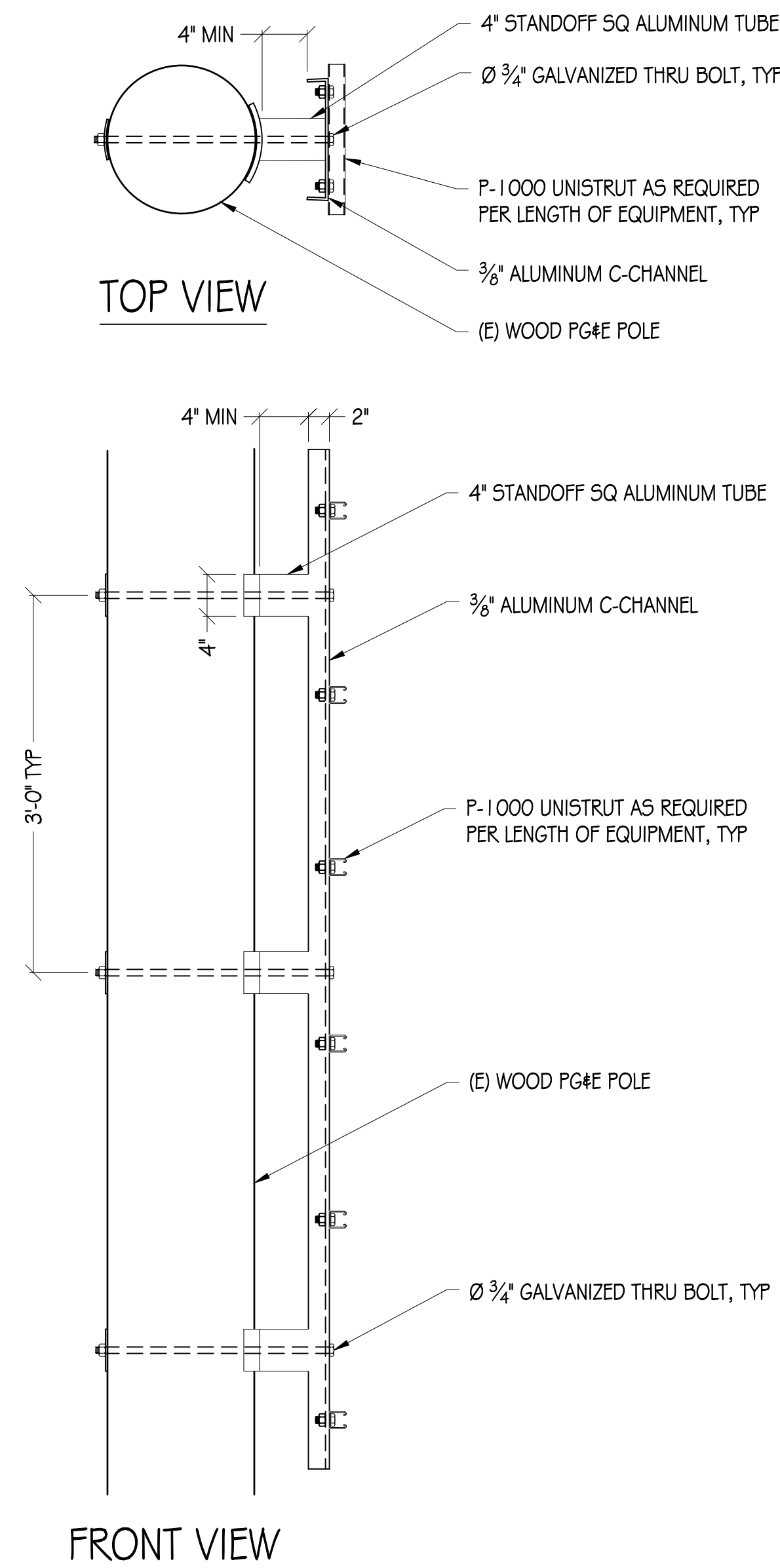
1 POLE TOP EXTENSION ASSEMBLY
1/2" = 1'



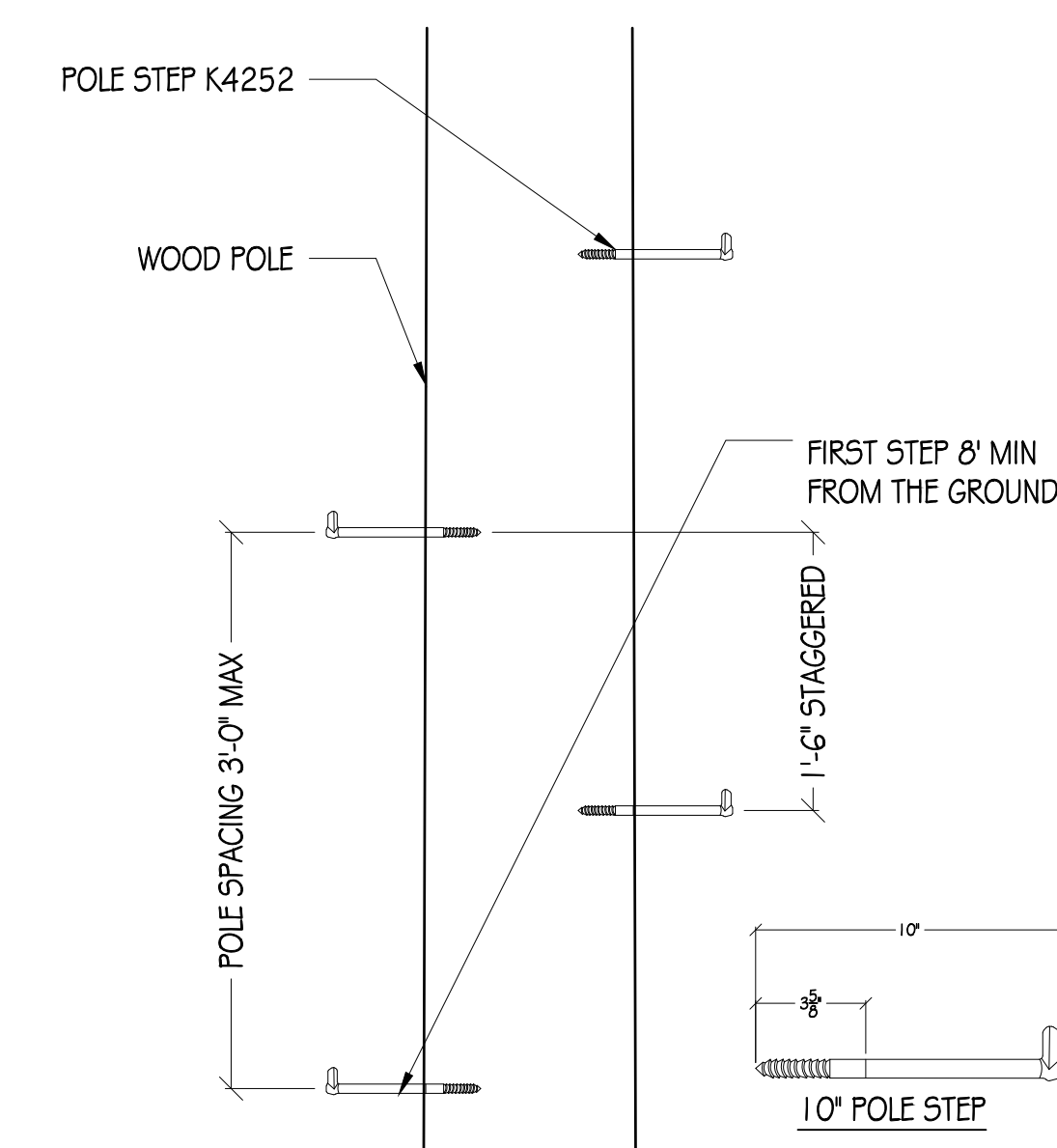
2 NOTICE SIGNAGE
NTS
NOTES:
NOTICE IS A VINYL STICKER ADHERED TO POLE



3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



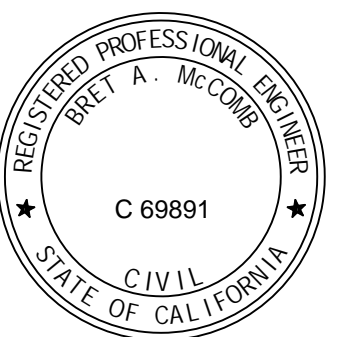
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DETAILS

SHEET NUMBER

A-6

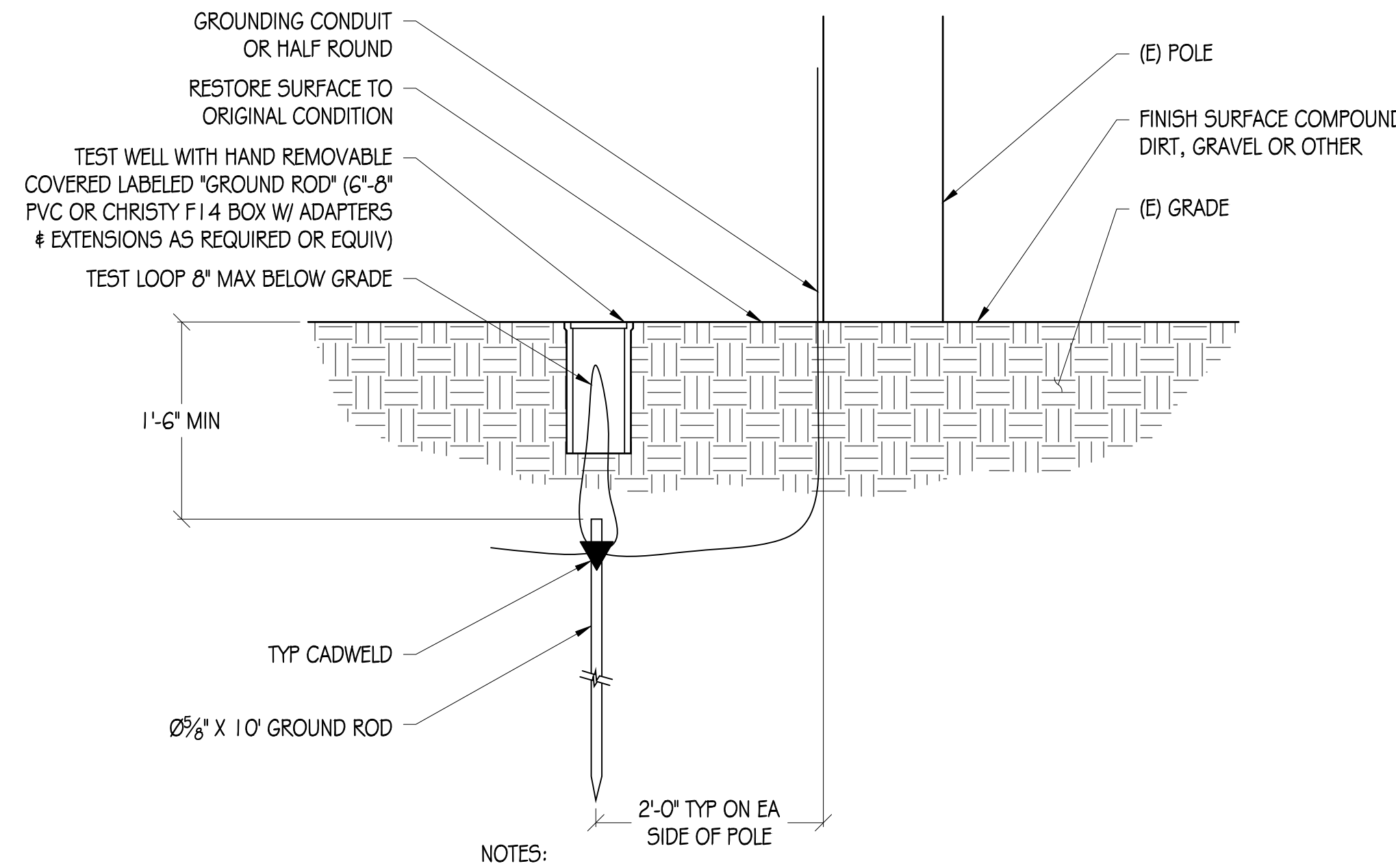
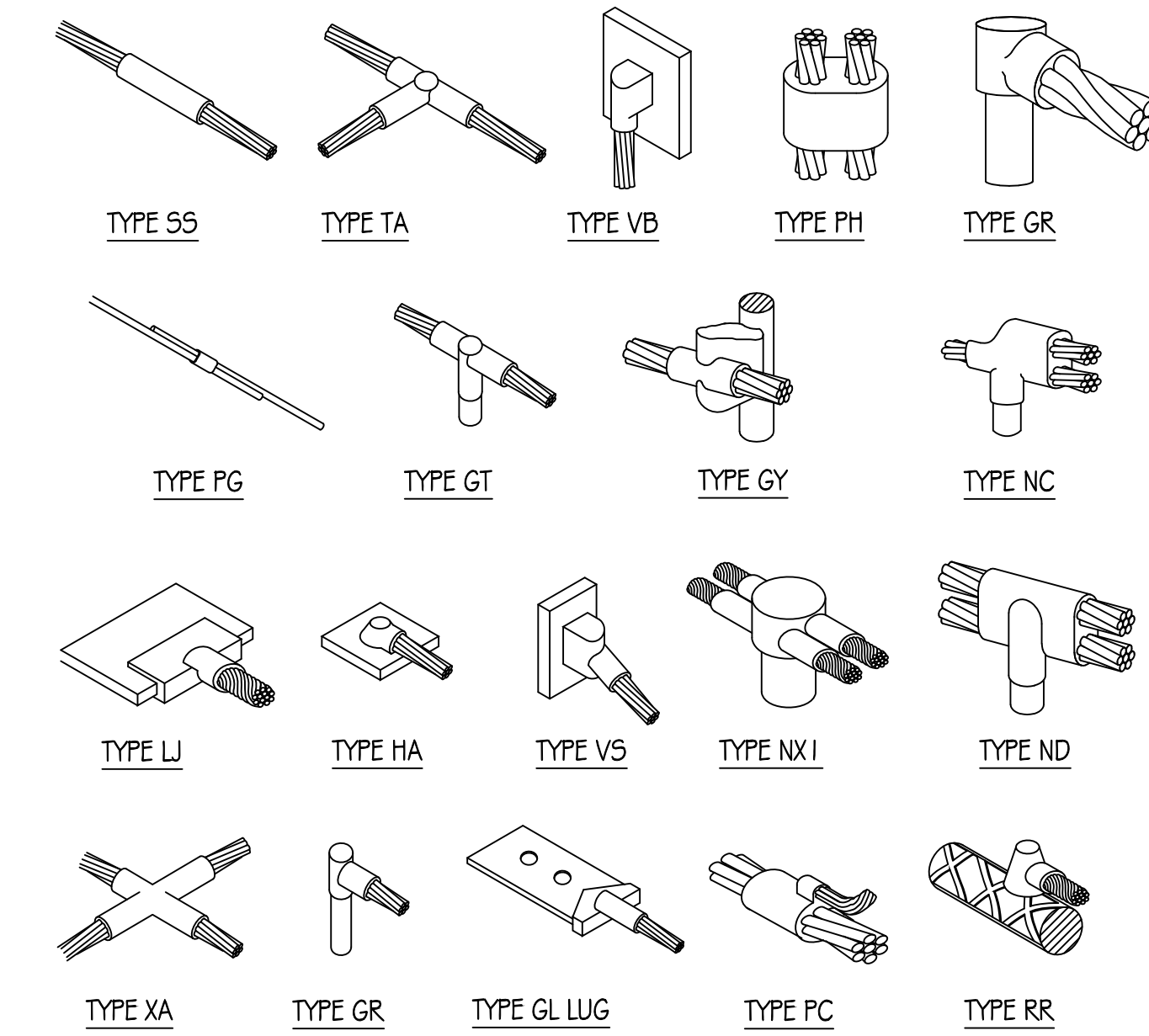
GENERAL ELECTRICAL NOTES:

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

POWER AND TELCO NOTES:

1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.

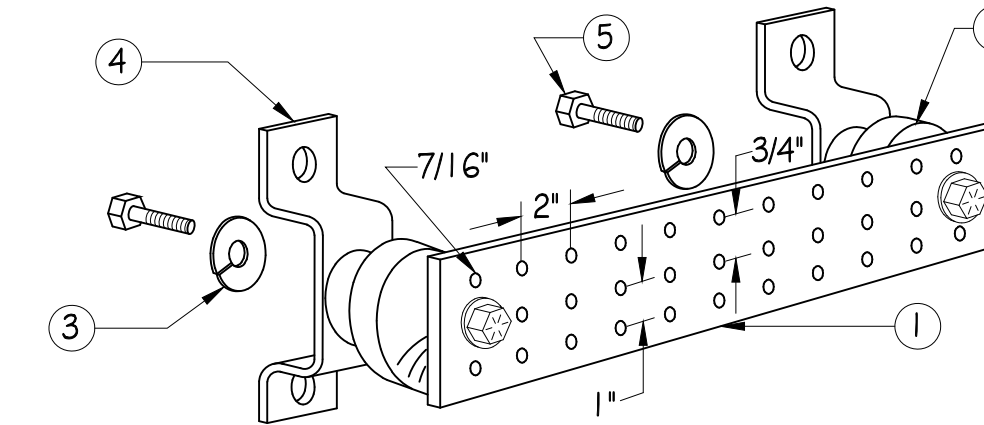
| LOAD SCHEDULE | | | | | | | | |
|--------------------|----------|-------------|----------------------|--------------|-------|--------------------|-----|------|
| MAKE/MODEL | QUANTITY | DESCRIPTION | DIMENSIONS | WEIGHT | TX/RX | MAX TRANSMIT POWER | W | KW |
| ERICSSON RRU5-4415 | 1 | RRU5 | 16.5" X 13.4" X 5.9" | 46 LB5 | 2T/2R | 4 X 40W | 670 | 0.67 |
| ERICSSON RRU5-11 | 1 | RRU5 | 19.7" X 17.0" X 7.2" | 55 LB5 | 2T/2R | 2 X 40W | 520 | 0.52 |
| NEMA 3R ENCLOSURE | 1 | DISCONNECT | 12.7" X 8.9" X 4.3" | 40 LB5 (MAX) | N/A | N/A | N/A | N/A |



- NOTES:
1. IF GROUND ROD IS INSTALLED ON SIDEWALK AREA, CORE DRILL SIDEWALK PRIOR TO INSTALLING INSPECTION WELL
 2. EXPOSED CONCRETE TO HAVE BROOM FINISH

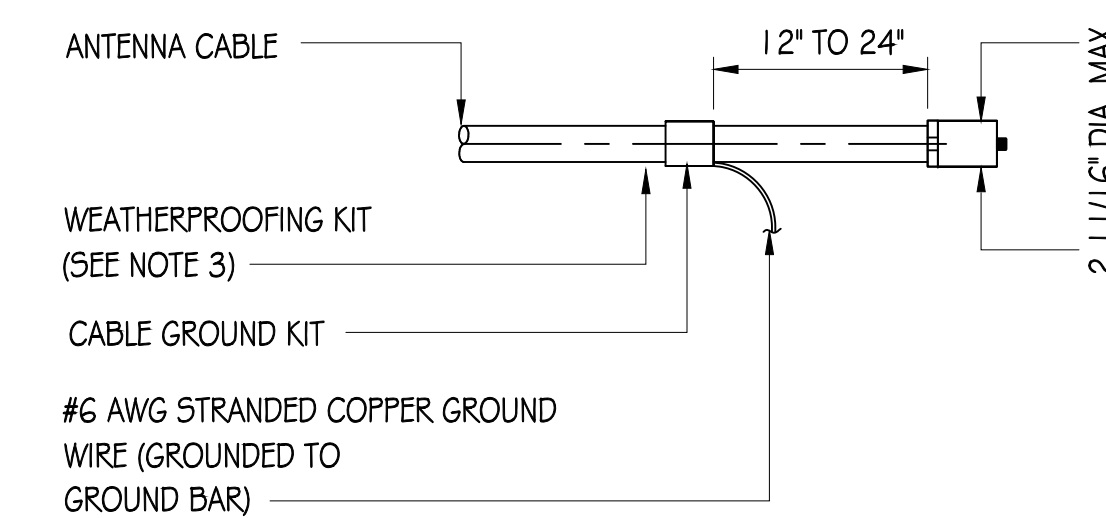
1 NTS
POLE GROUNDING DETAIL

4 NTS
EXOTHERMIC WELD DETAILS



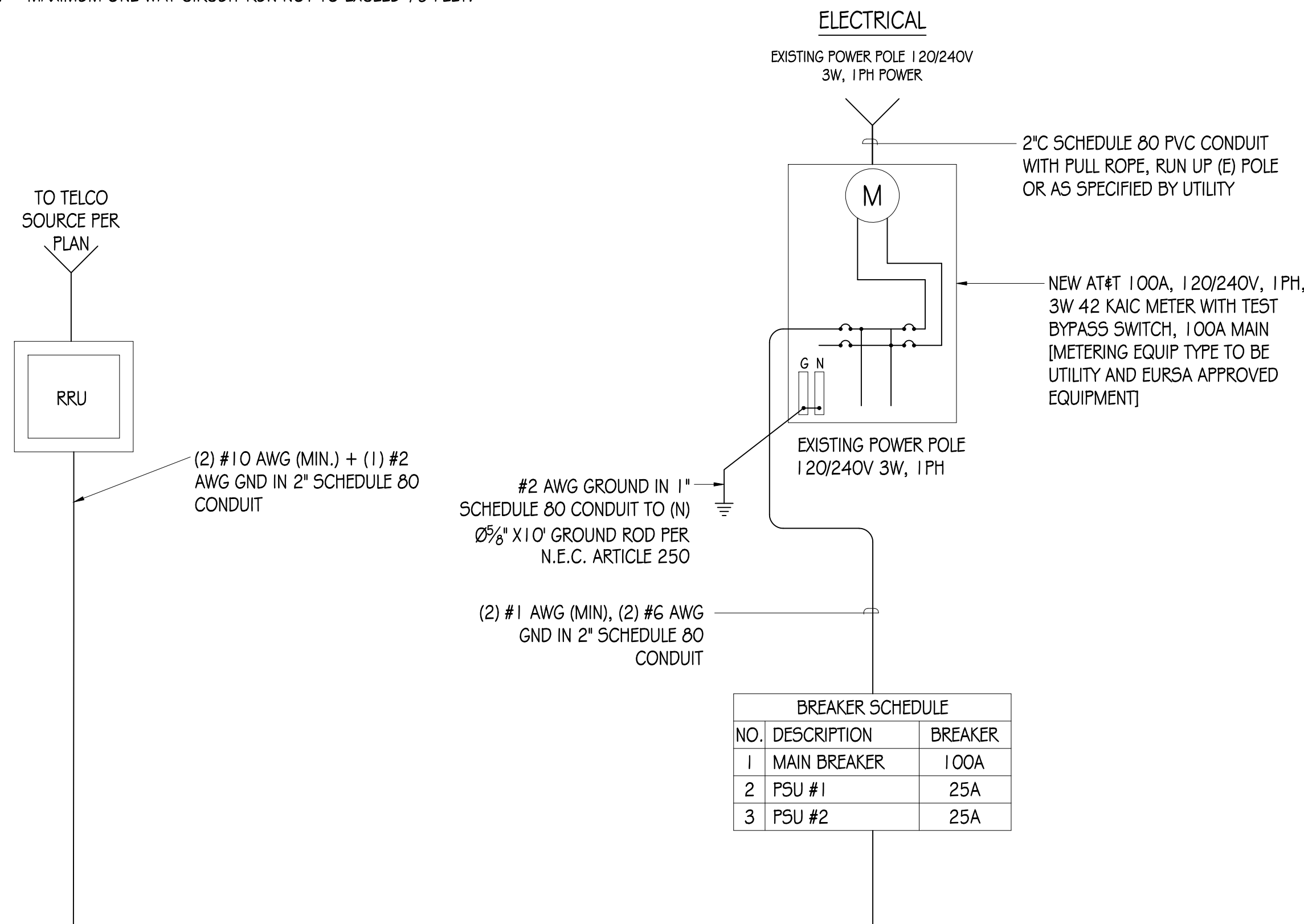
- NOTES:
1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
 2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 30G1-4 OR APPROVED EQUAL
 3. 5/8\"/>

5 NTS
GROUND BAR DETAIL

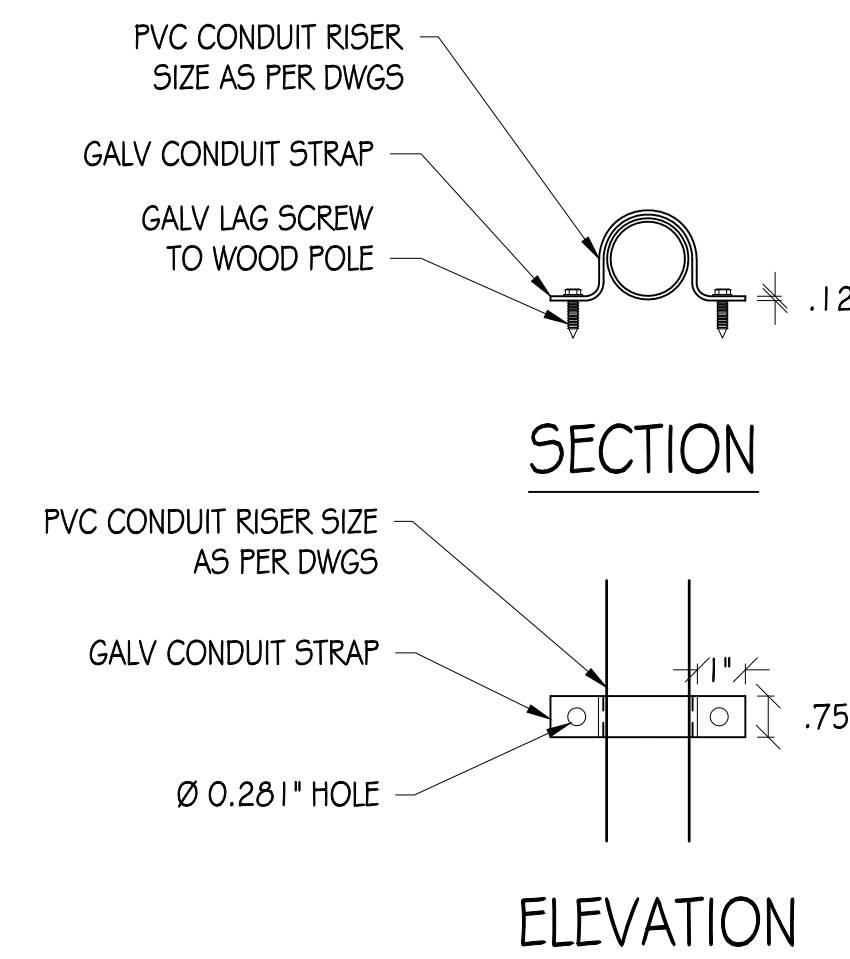


- NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

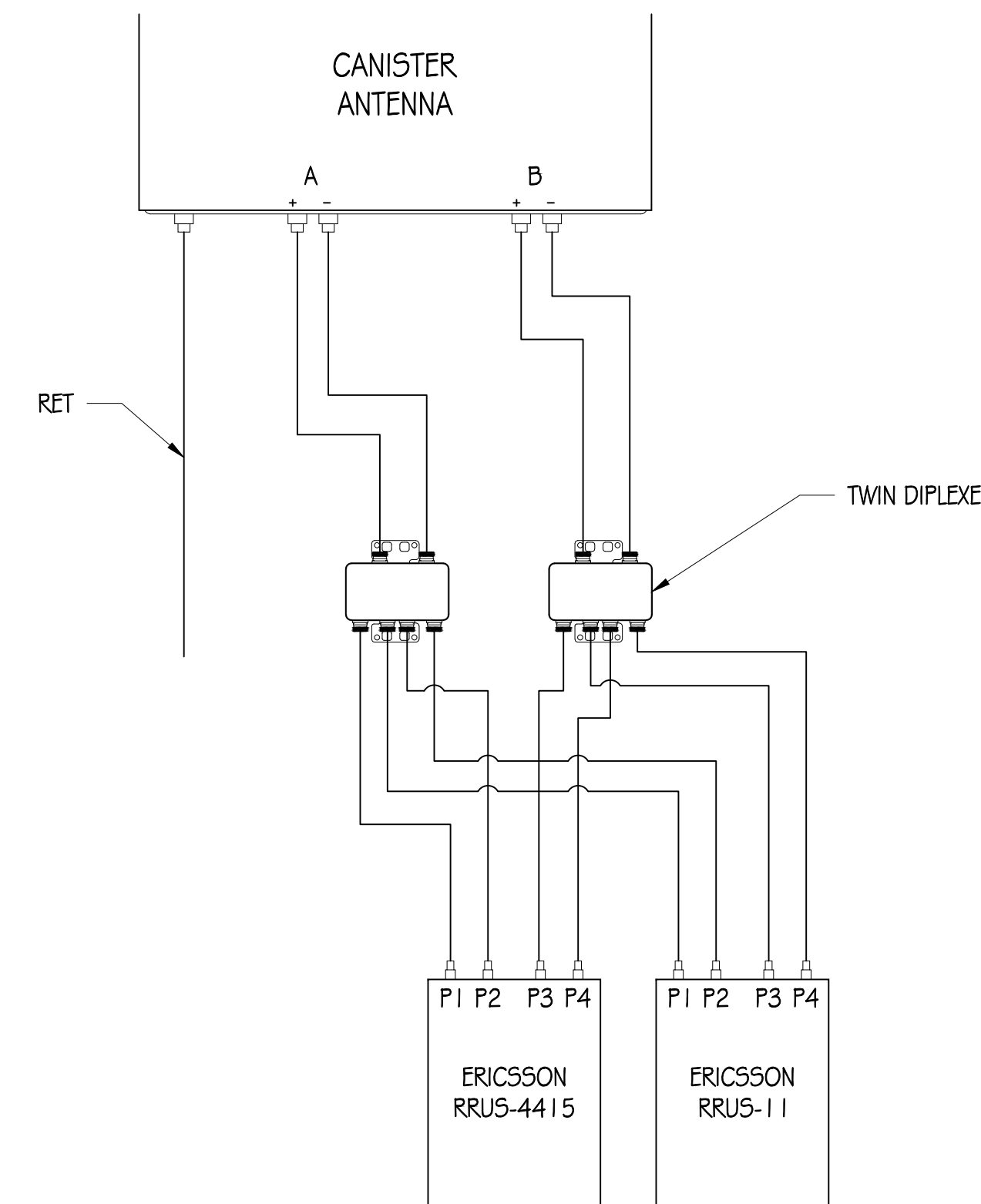
6 NTS
GND KIT DETAIL



SINGLE-LINE DIAGRAM



2 NTS
CONDUIT RISER DETAIL



3 NTS
WIRE DIAGRAM DETAIL



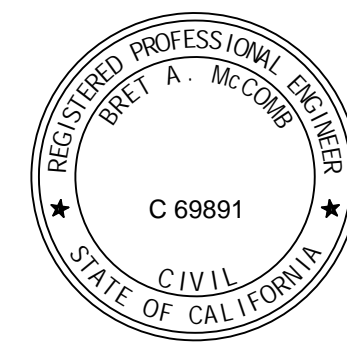
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STRUCTURE experts. Small cell location.
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CRAN_RSFR_LOSAO_003

ROW ADJCT TO 421 VALENCIA DR
LOS ALTOS, CA 94022

ISSUE STATUS

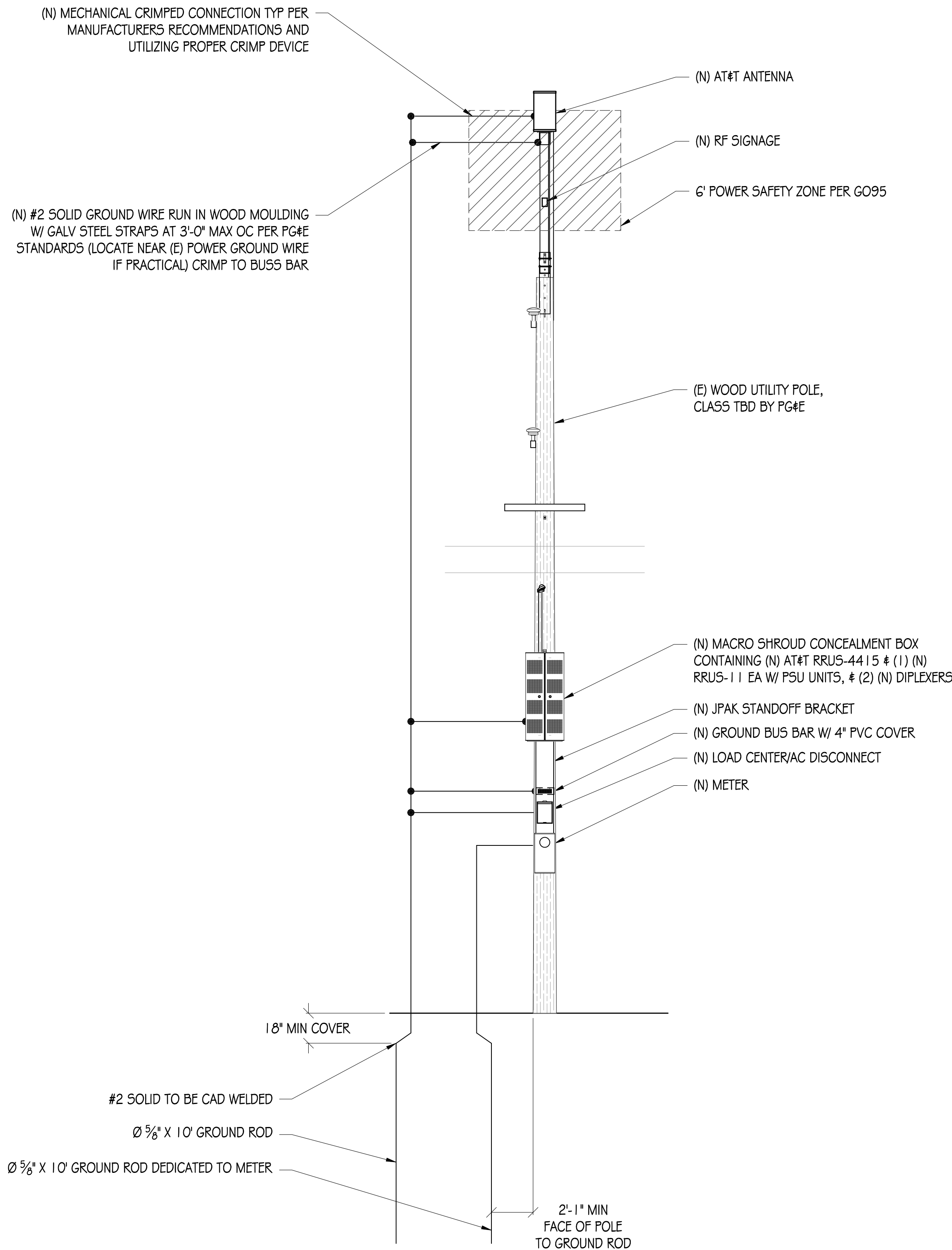
| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 11/13/18 | CD 90% |
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DRAWN BY: R. MARTINEZ
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 05/03/19
SHEET TITLE:

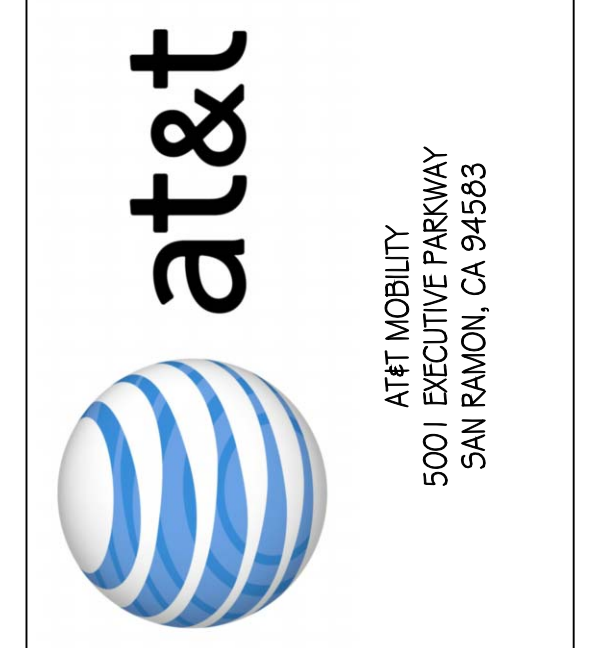
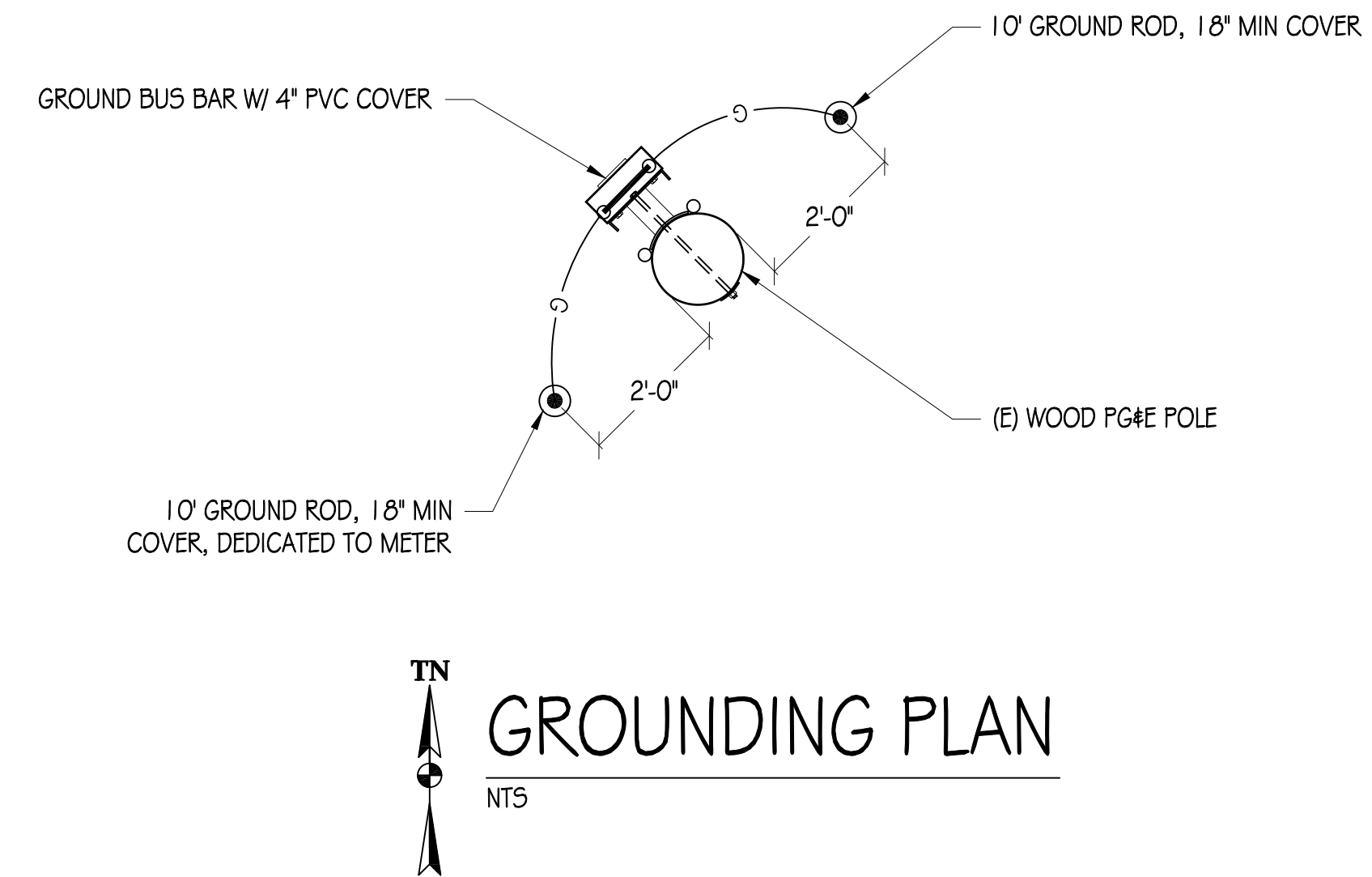
SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER

E-1



POLE GROUNDING DIAGRAM
NTS



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CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 05/03/19
SHEET TITLE:

GROUNDING DIAGRAMS
SHEET NUMBER
E-2



at&t

SITE ID: CRAN_RSFR_LOSAO_003
 SITE ADDRESS: 421 VALENCIA DR
 LOS ALTOS, CA 94022
 PM#: 114474320
 SITE TYPE: BRAND NEW PG&E POLE #TBD
 POLE OWNER: PG&E
 FA LOCATION: 14816592
 USID: 198294



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614

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 APPROVED BY: B. McCOMB
 DATE: 07/24/19

SHEET TITLE:

TITLE SHEET

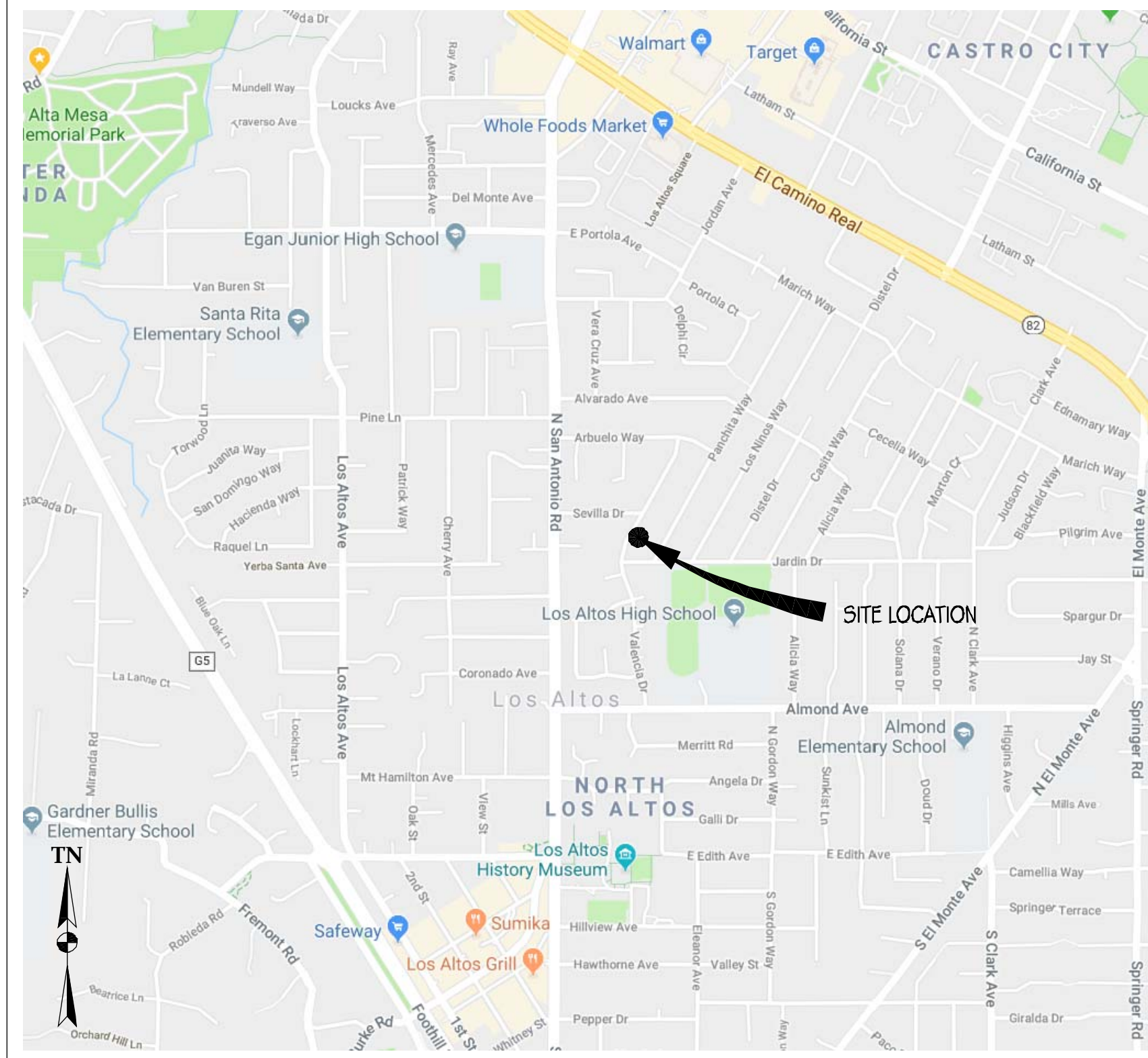
SHEET NUMBER

T-1

SITE INFORMATION

APPLICANT: AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583
 AGENT: SURESITE
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614
 APN: ACROSS FROM 170-47-016
 SITE ADDRESS: 421 VALENCIA DR
 LOS ALTOS, CA 94022
 COUNTY: SANTA CLARA
 LATITUDE: 37° 23' 20.74" N (37.389094) NAD 83
 LONGITUDE: 122° 06' 42.82" W (-122.111894) NAD 83
 GROUND ELEVATION: ± 133.2' AMSL
 ZONING: PUBLIC ROW
 ZONING JURISDICTION: CITY OF LOS ALTOS
 PG&E SAP ID: 100509189
 Street CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT: SURESITE
 2033 GATEWAY PLACE, 6TH FLOOR
 SAN JOSE, CA 95110
 (949) 278-2962
 L.MEINERS@SURE-SITE.COM
 PROJECT MANAGERS:
 CHRIS JOHNSON
 ERICSSON
 6140 STONERIDGE MALL RD, SUITE 350
 PLEASANTON, CA 94588
 (408) 796-8443
 CHRISTOPHER.JOHNSON@ERICSSON.COM
 ARCHITECT/ENGINEER OF RECORD:
 BRETT McCOMB
 PRECISION DESIGN & DRAFTING, INC
 11768 ATWOOD ROAD, SUITE #20
 AUBURN, CA 95603
 (530) 823-6546
 BRETT@PDND.COM
 CONSTRUCTION MANAGER:
 DELBERT BUTCHER
 ERICSSON
 6140 STONERIDGE MALL ROAD, SUITE 350
 PLEASANTON, CA 94588
 (720) 317-7282

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON A (N) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.
 SCOPE OF WORK:
 1. INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRUS-4415 & (1) RRU5-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2-0GT CYLINDRICAL ANTENNA.
 2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
 3. UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
 4. FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

DRAWING INDEX

| SHEET NO: | SHEET TITLE |
|-----------|--|
| T-1 | TITLE SHEET |
| T-2 | GENERAL NOTES, LEGEND, & ABBREVIATIONS |
| A-1 | SITE PLAN |
| A-2 | EQUIPMENT PLAN & ANTENNA PLANS |
| A-3 | ELEVATIONS |
| A-4 | ELEVATIONS |
| A-5 | DETAILS |
| A-6 | DETAILS |
| E-1 | SINGLE-LINE DIAGRAM & DETAILS |
| E-2 | GROUNDING DIAGRAMS |

CODE COMPLIANCE

CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
 1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 2. 2016 CALIFORNIA BUILDING CODE
 3. 2016 CALIFORNIA ELECTRICAL CODE
 4. 2016 CALIFORNIA MECHANICAL CODE
 5. 2016 CALIFORNIA PLUMBING CODE
 6. 2016 CALIFORNIA FIRE CODE
 7. LOCAL BUILDING CODES
 8. CITY/COUNTY ORDINANCES
 9. ANS/JEIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE
 FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
 TO: 413 VALENCIA DR, LOS ALTOS, CA 94022
 1. HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
 2. TURN RIGHT ONTO SUNSET DR 0.1 MI
 3. USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
 4. USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
 5. MERGE ONTO I-680 S 25.5 MI
 6. TAKE EXIT 9 FOR JACKLIN ROAD 0.3 MI
 7. TURN RIGHT ONTO JACKLIN RD 0.9 MI
 8. CONTINUE ONTO N ABEL ST 0.7 MI
 9. TURN RIGHT ONTO MARYLINN DR 0.3 MI
 10. TURN LEFT ONTO N ABBOTT AVE 0.6 MI
 11. CONTINUE TO FOLLOW CA-237 W 0.4 MI
 12. USE THE LEFT 2 LANES TO TAKE THE CA-237 W RAMP TO MTN VIEW 0.3 MI
 13. CONTINUE ONTO CA-237 W
 14. CONTINUE ON EL CAMINO REAL. DRIVE TO VALENCIA DR IN LOS ALTOS
 END AT: 413 VALENCIA DR, LOS ALTOS, CA 94022
 ESTIMATED TIME: 84 MIN ESTIMATED DISTANCE: 41.4 MI

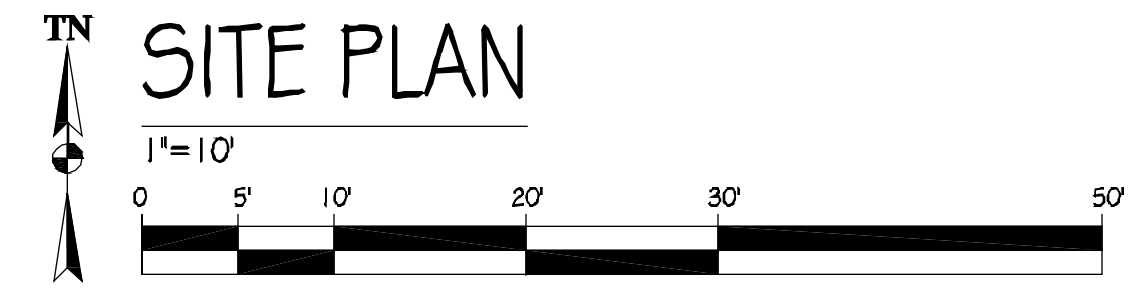
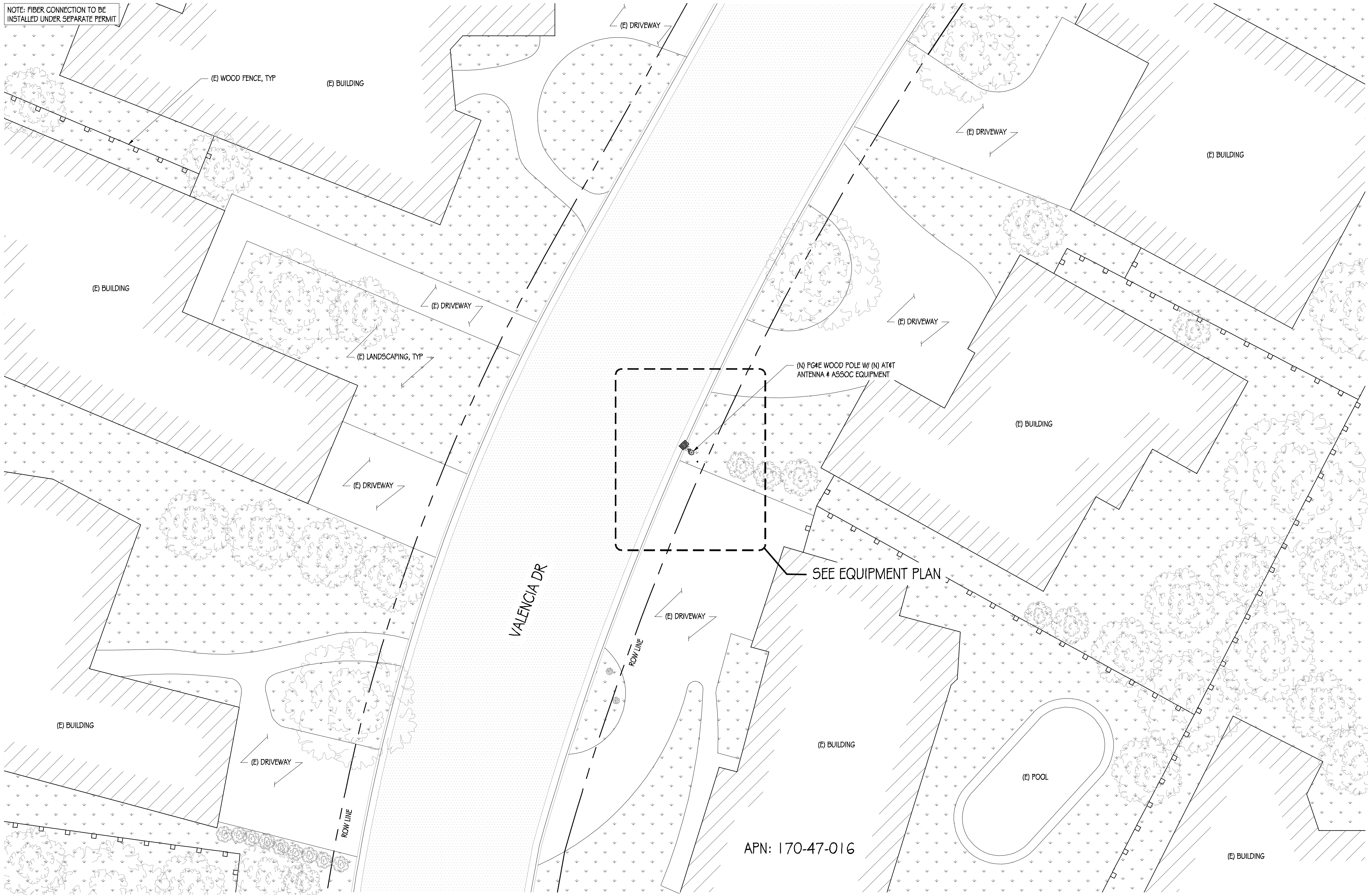
At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

CALL
 "CALL BEFORE YOU DIG"
 811/800-227-2600
 NATIONWIDE UNDERGROUND SERVICE ALERT

ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



SITE PLAN

APN: 170-47-016



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

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LOS ALTOS, CA 94022

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CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 07/24/19

SHEET TITLE:

SITE PLAN

SHEET NUMBER

A-1

NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.

VALENCIA DR

(N) PG&E WOOD POLE W/ (N) AT&T ANTENNA & ASSOC EQUIPMENT
GROUND ROD & TEST WELL TO BE INSTALLED AT PROPOSED LOCATION. LOCATION MAY CHANGE BASED UPON USA MARKINGS. RESTORATION TO MEET CITY OF CAMPBELL CITY STANDARD DETAILS

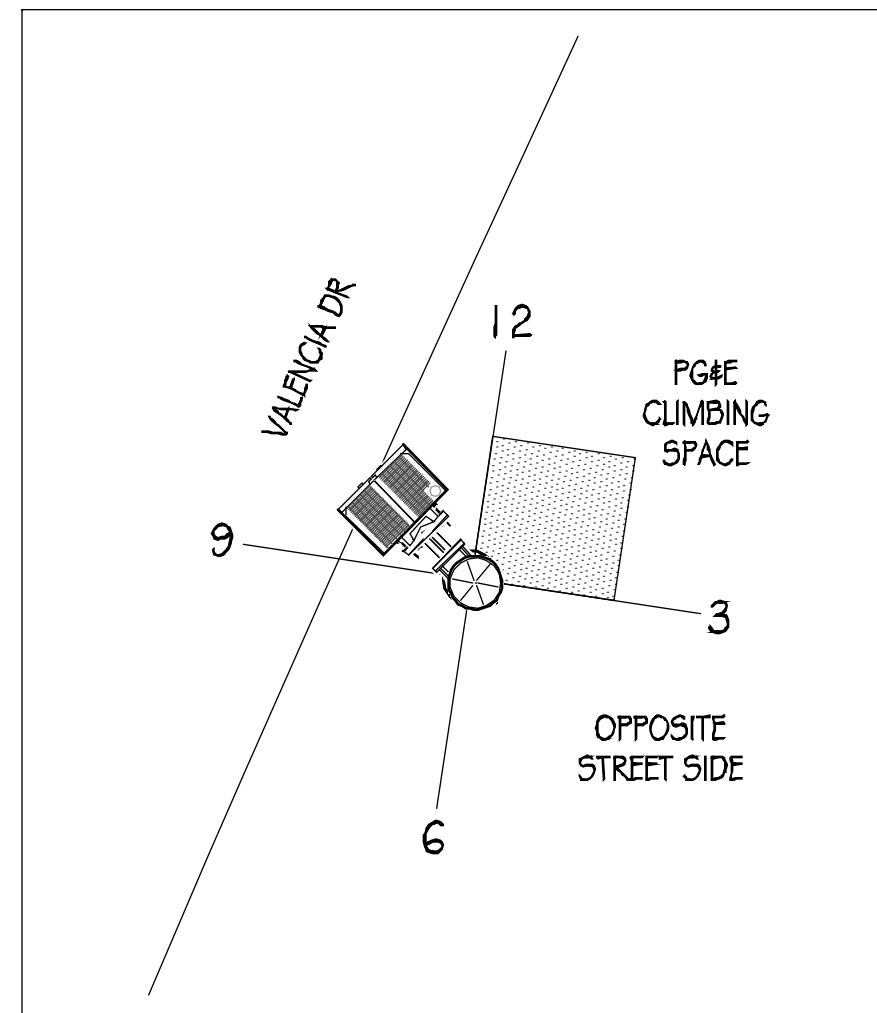
SEE ANTENNA PLANS

(E) LANDSCAPING

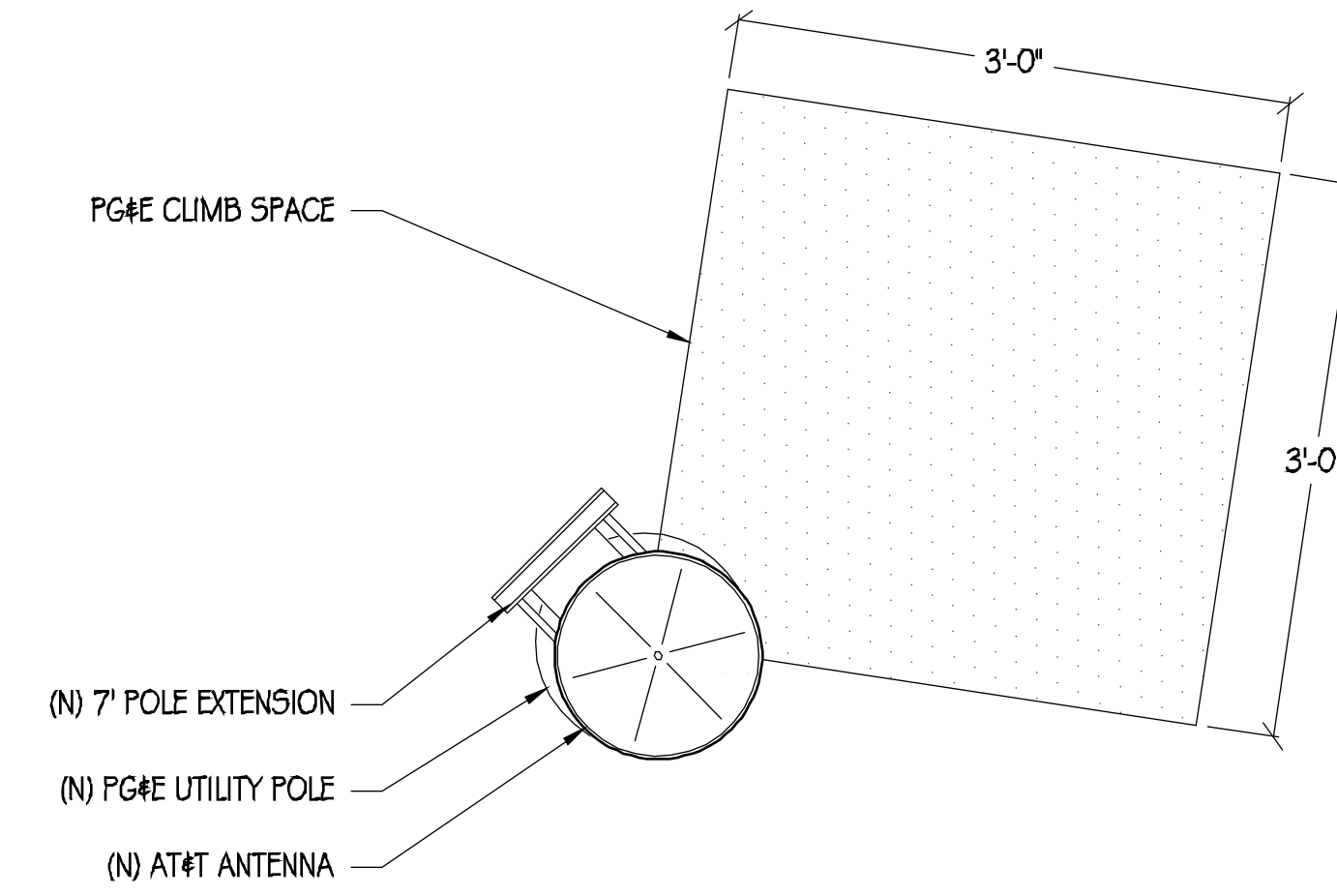
(E) DRIVEWAY

ROW LINE

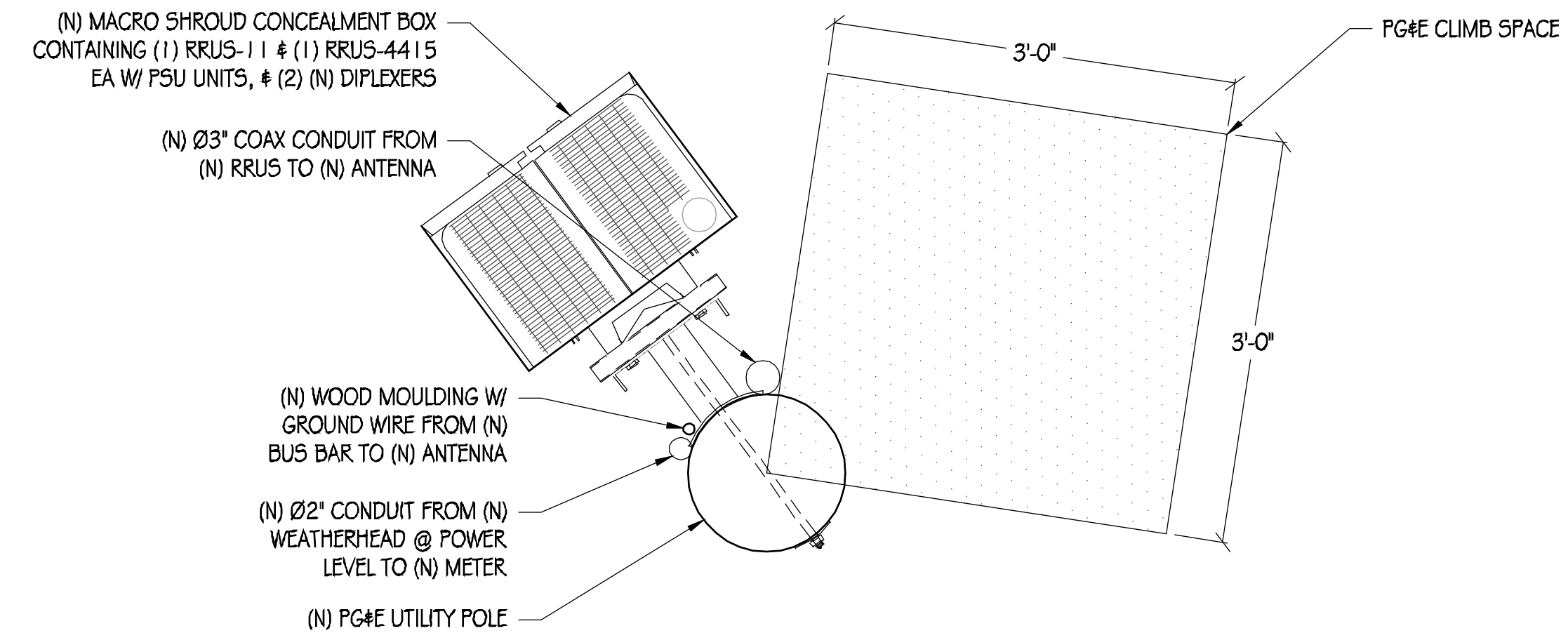
TN
EQUIPMENT PLAN
1/2"=1'



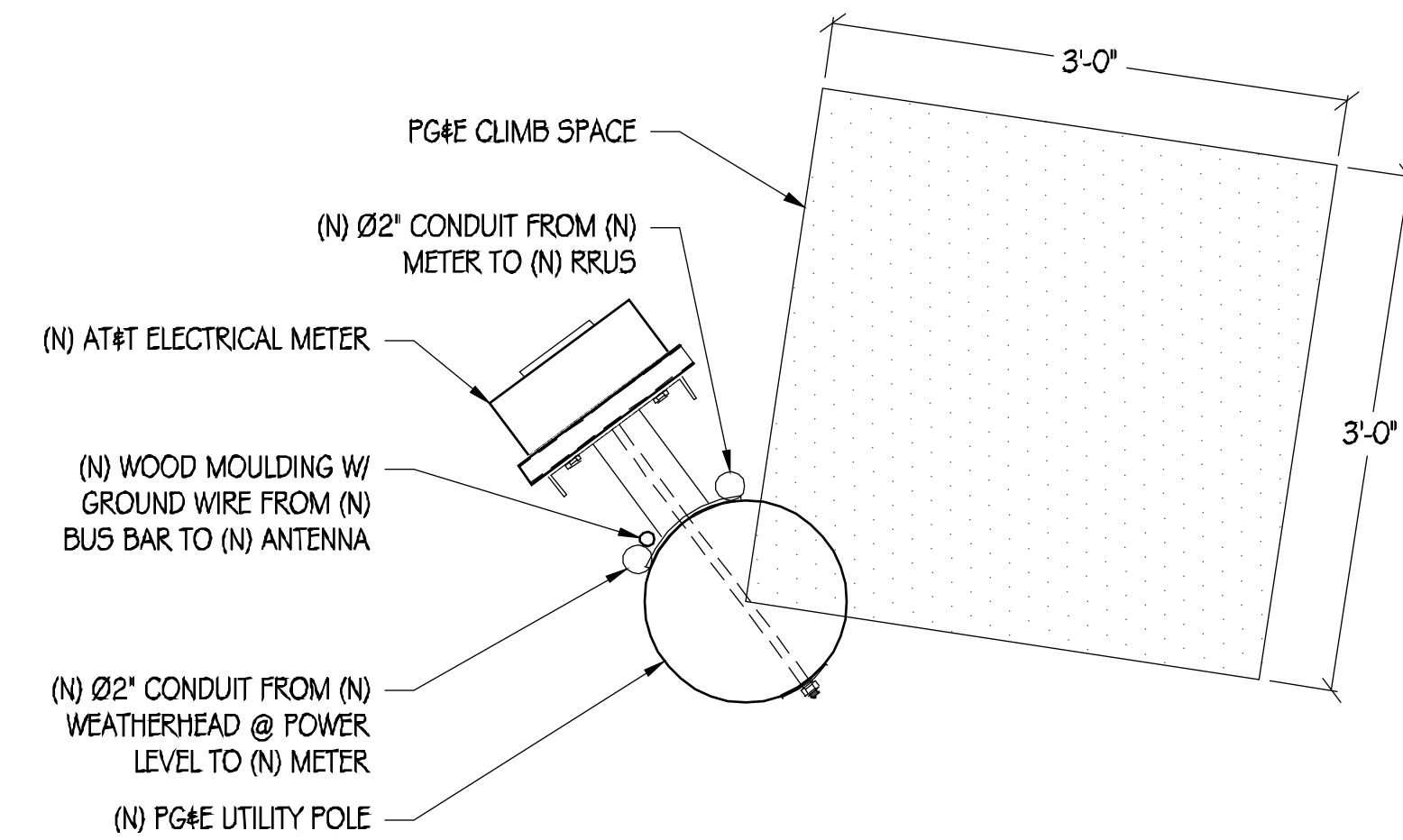
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



TN
ANTENNA PLAN
1"=1'



TN
RRH PLAN
1"=1'



TN
ELECTRICAL METER PLAN
1"=1'



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

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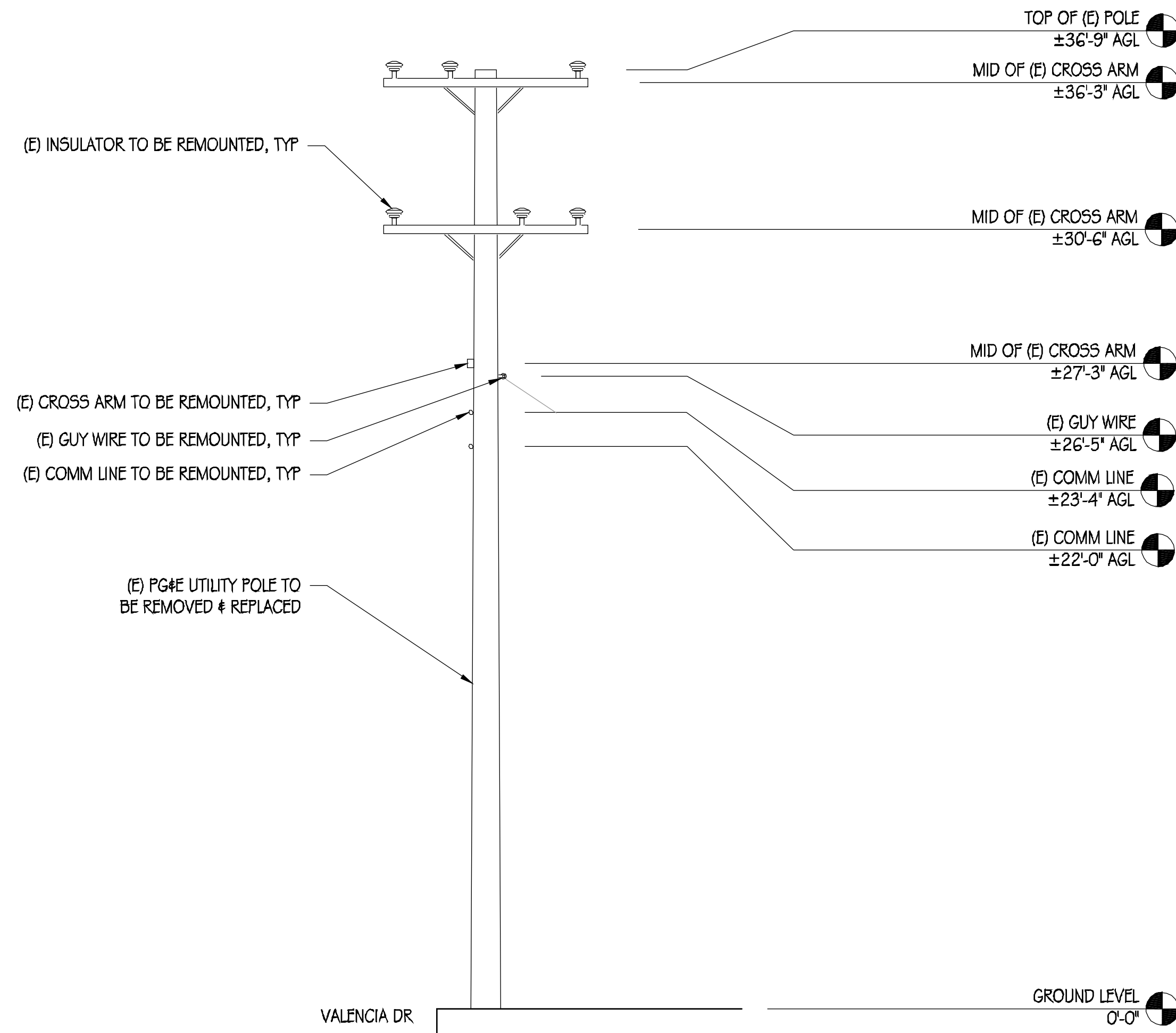
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APPROVED BY: B. McCOMB
DATE: 07/24/19
SHEET TITLE:

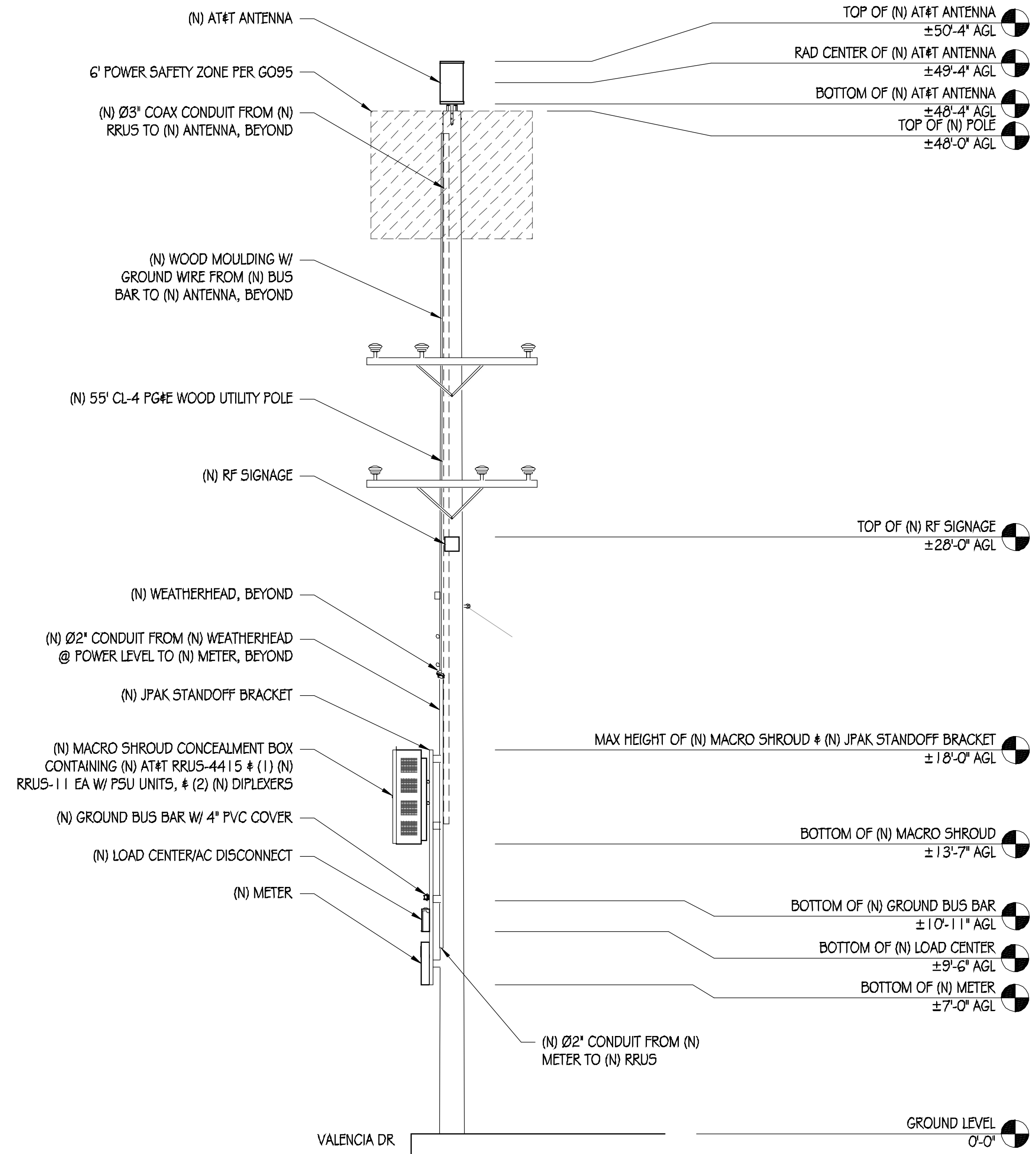
EQUIPMENT PLAN &
ANTENNA PLANS
SHEET NUMBER
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING SOUTHWEST ELEVATION

1/4" = 1'-0"



NEW SOUTHWEST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

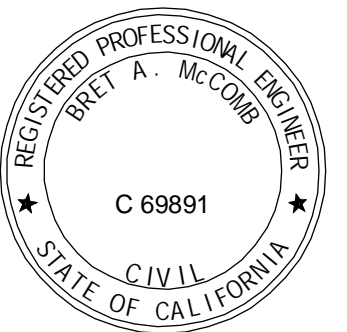


36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

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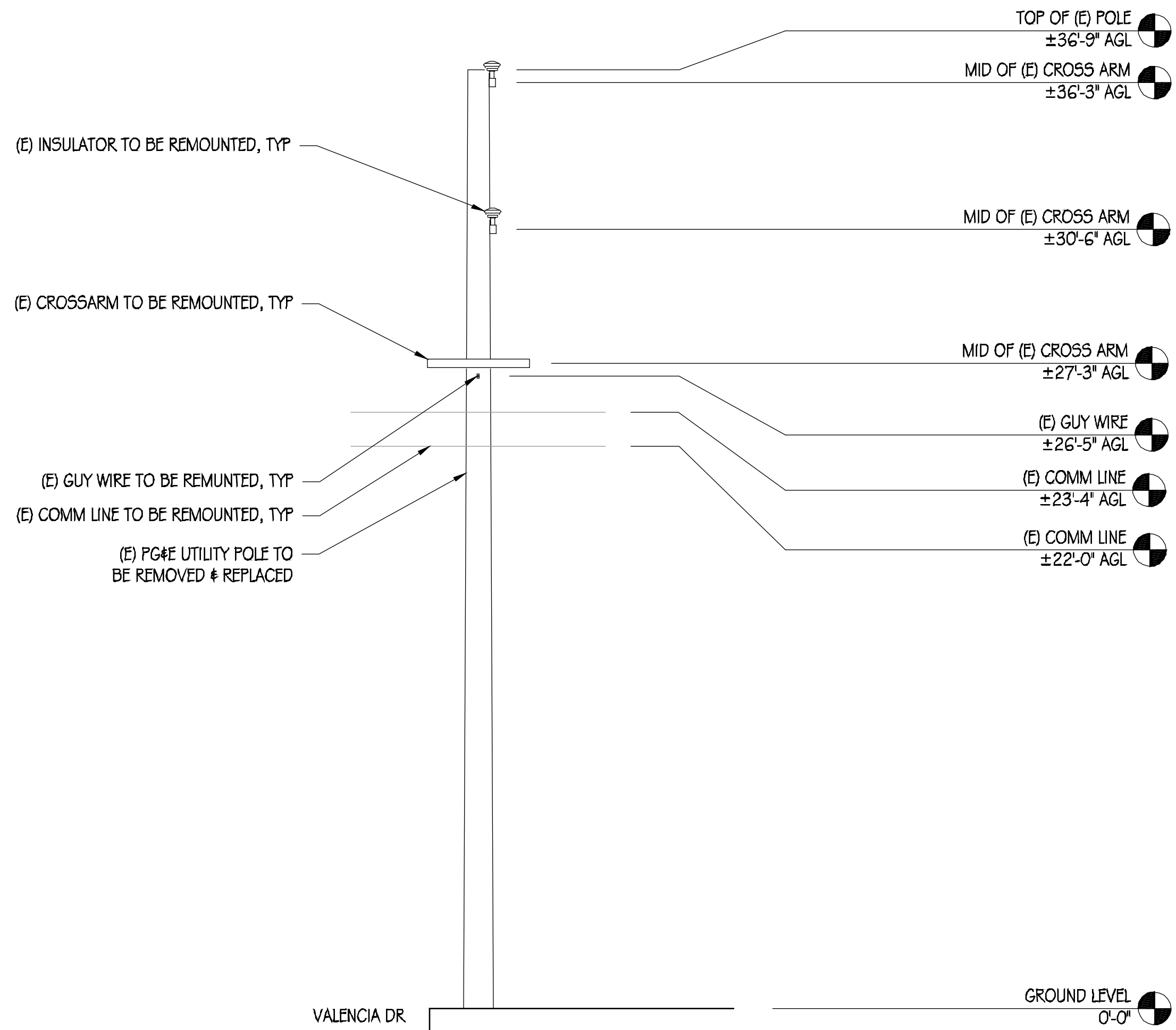
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APPROVED BY: B. McCOMBE
DATE: 07/24/19

SHEET TITLE:
ELEVATIONS

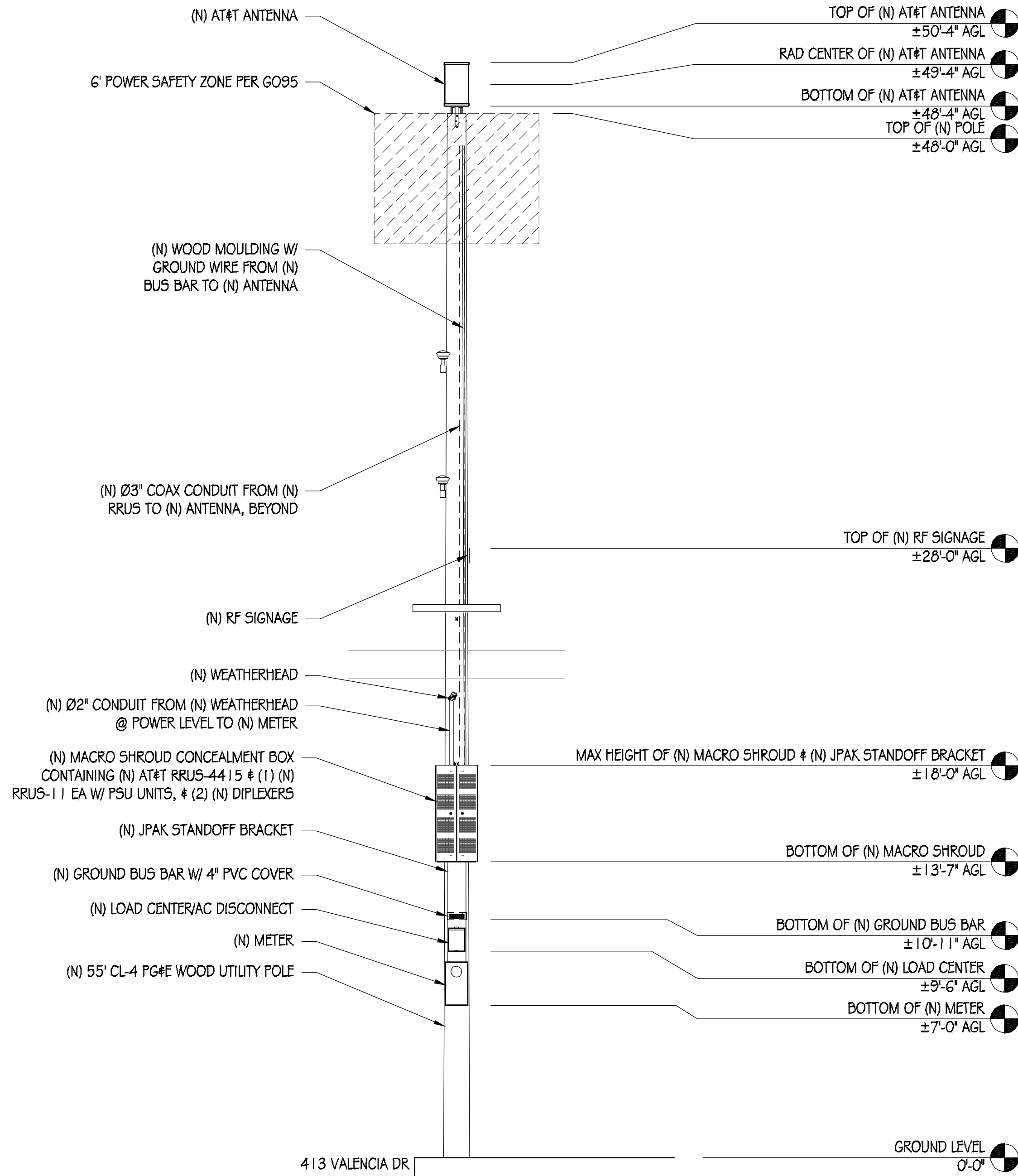
SHEET NUMBER:
A-3

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING EAST ELEVATION

1/4" = 1'-0"



EXISTING EAST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



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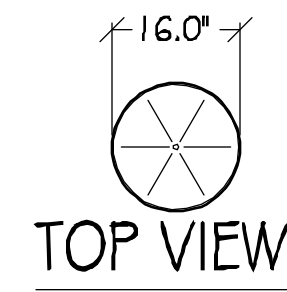
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SHEET NUMBER

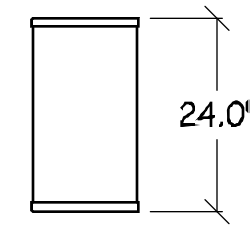
A-4

KMW FX-OM2L1OH2-06T

WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

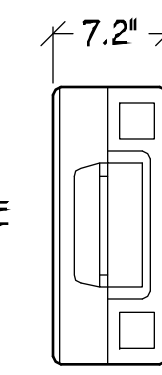


FRONT VIEW

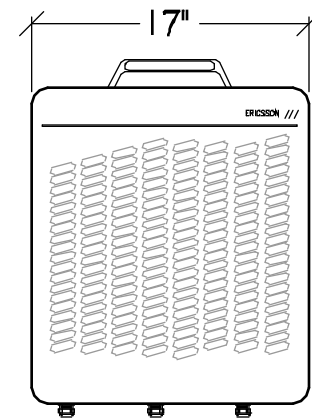
1 ANTENNA
1/2"=1'

ERICSSON RRUS-11

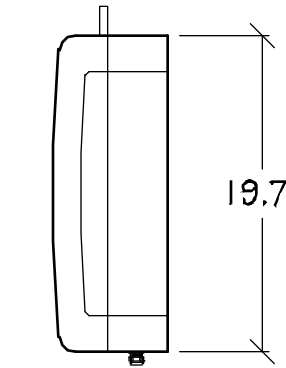
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

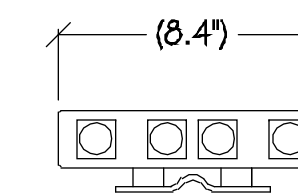


SIDE VIEW

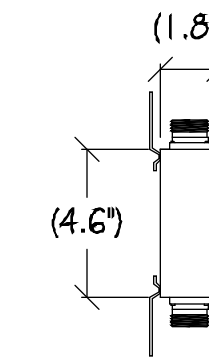
2 RRUS-11 DETAIL
1"=1'

COMMSCOPE
 CBC1923T-4310/
 E11F13P06

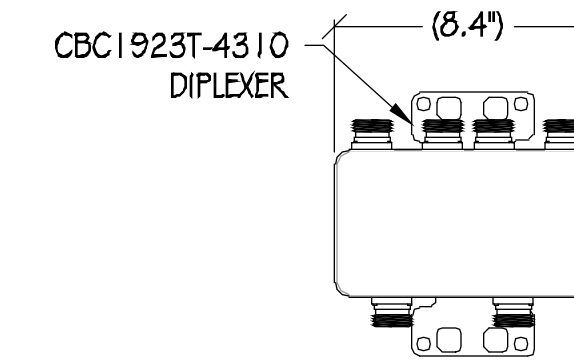
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

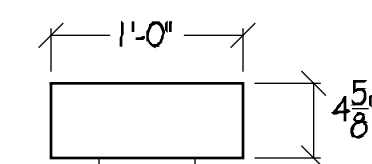


SIDE VIEW



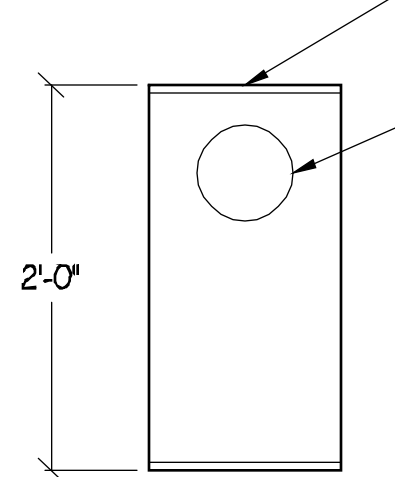
FRONT VIEW

3 DIPLEXER DETAIL
1"=6"

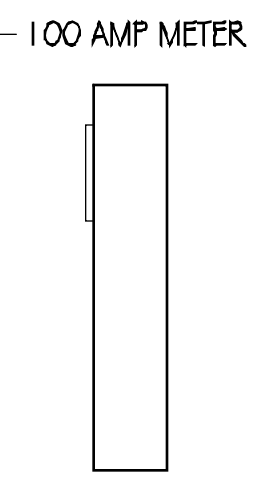


TOP VIEW

COOPER B-LINE 114TB ELECTRICAL PANEL TO MEET COMMERCIAL PG&E REQUIREMENTS WITH TEST BYPASS



FRONT VIEW

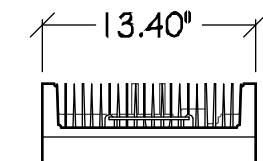


SIDE VIEW

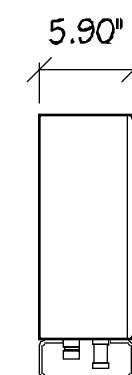
4 METER DETAIL
1"=1'

ERICSSON RRUS-4415

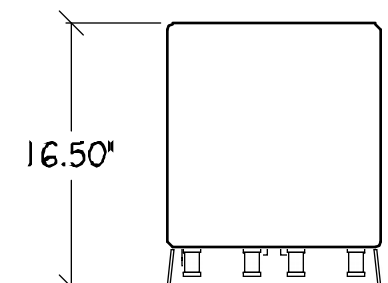
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

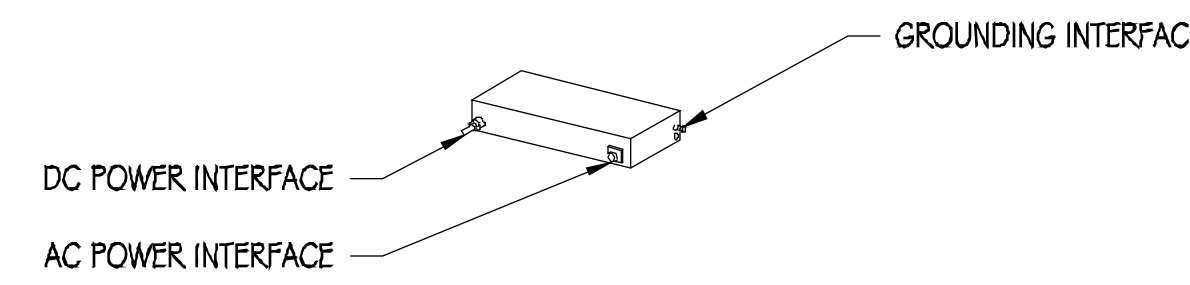


FRONT VIEW

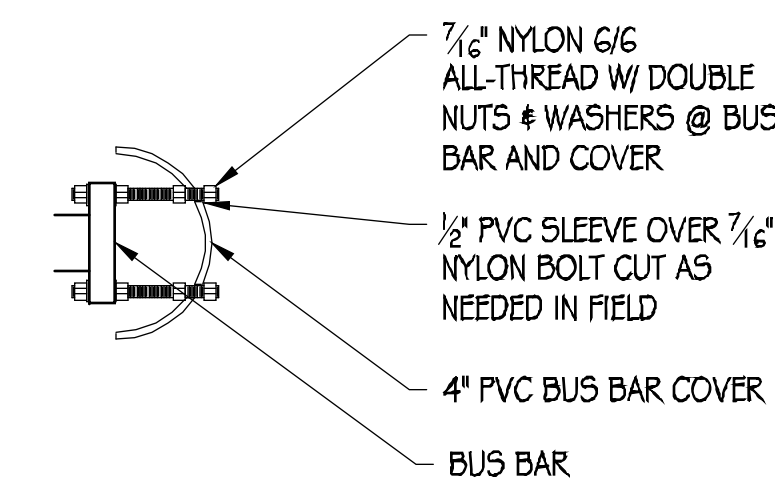
5 RRUS-4415 DETAIL
1"=1'

ERICSSON PSU AC 08

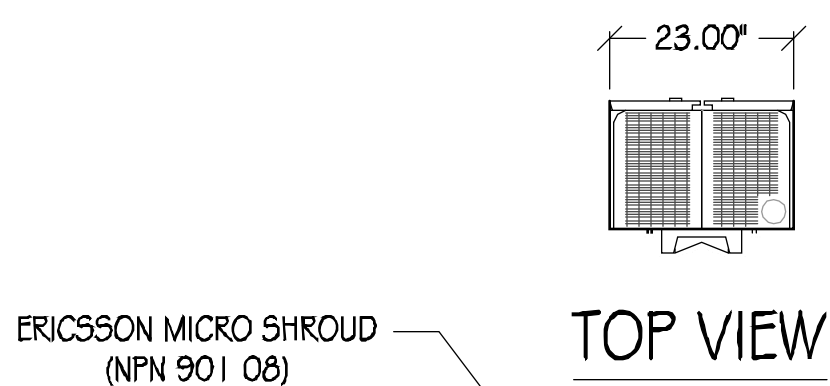
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



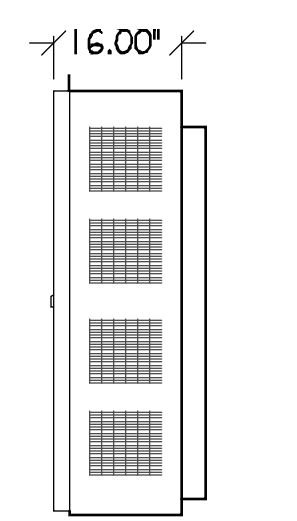
6 AC POWER MODULE
NTS



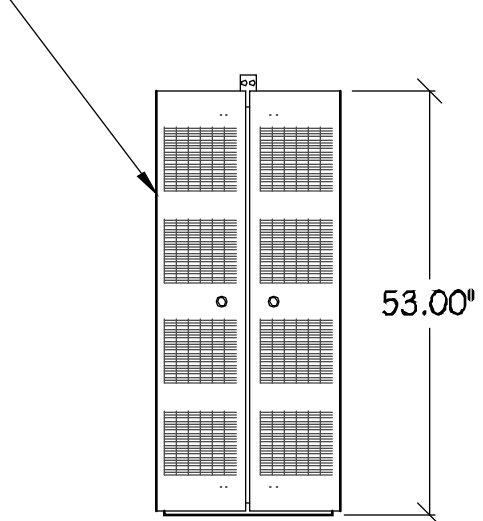
7 BUS BAR COVER
6"=1'



TOP VIEW

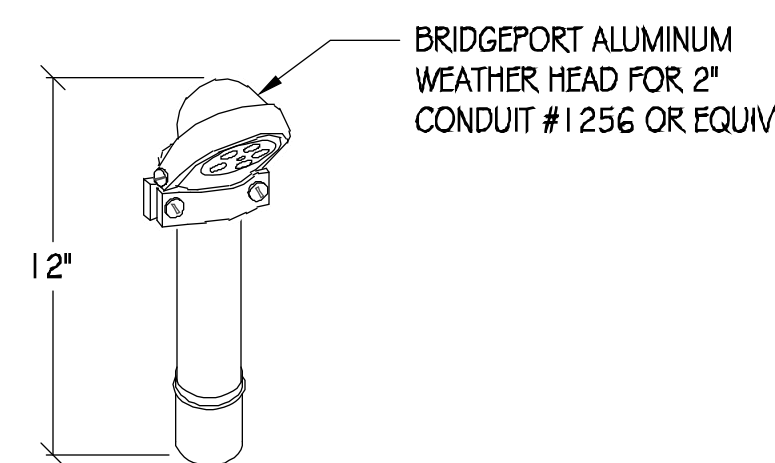


SIDE VIEW



FRONT VIEW

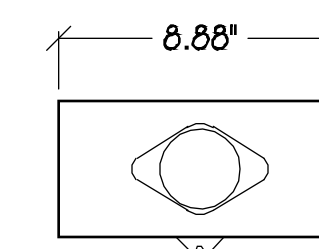
8 MICRO SHROUD CONCEALMENT
1/2"=1'



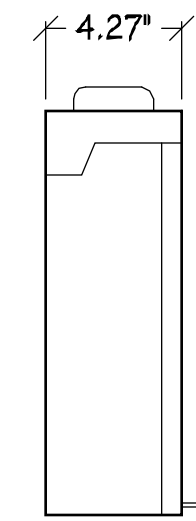
BRIDGEPORT ALUMINUM WEATHER HEAD FOR 2" CONDUIT #1256 OR EQUIV

9 WEATHER HEAD
NTS

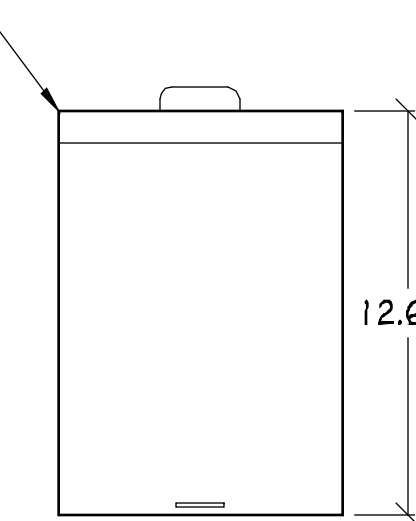
SCHNEIDER ELECTRIC
 QO612L100RB



TOP VIEW

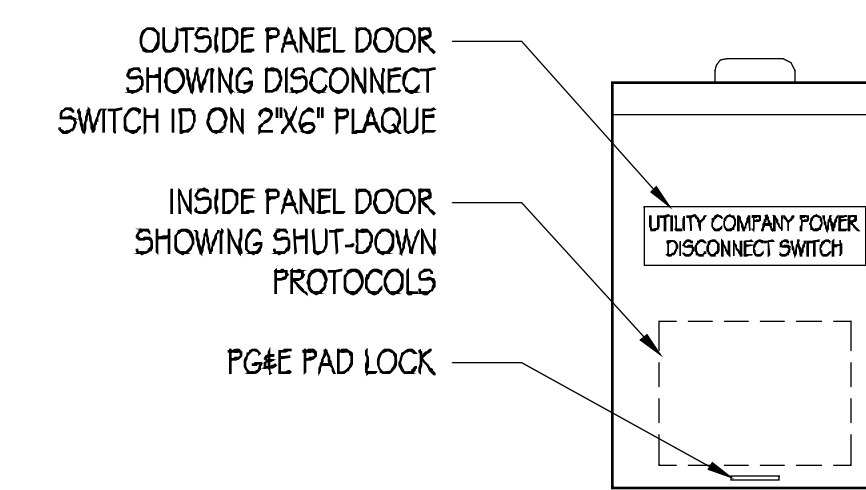


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT
1"=6"



SHUTDOWN DISCONNECT

NORMAL SHUT-DOWN PROCEDURES

- CALL 800-638-2822 24HRS PRIOR TO SCHEDULE A SHUT-DOWN DAY AND TIME.
- SAVE NCC THE NODE NUMBER.
- ON SCHEDULE DAY OF SHUT-DOWN, PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
- CALL NCC WHEN WORK IS COMPLETED.

EMERGENCY SHUT-DOWN PROCEDURES

- CALL 800-638-2822 NCC.
- SAVE NCC THE NODE NUMBER.
- PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
- CALL NCC WHEN THE WORK IS COMPLETED.

SHUT-DOWN PROTOCOL ON 3M LABEL

11 DISCONNECT SIGNAGE
3"=1'

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT

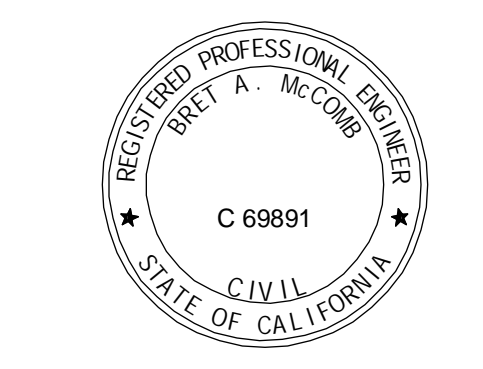


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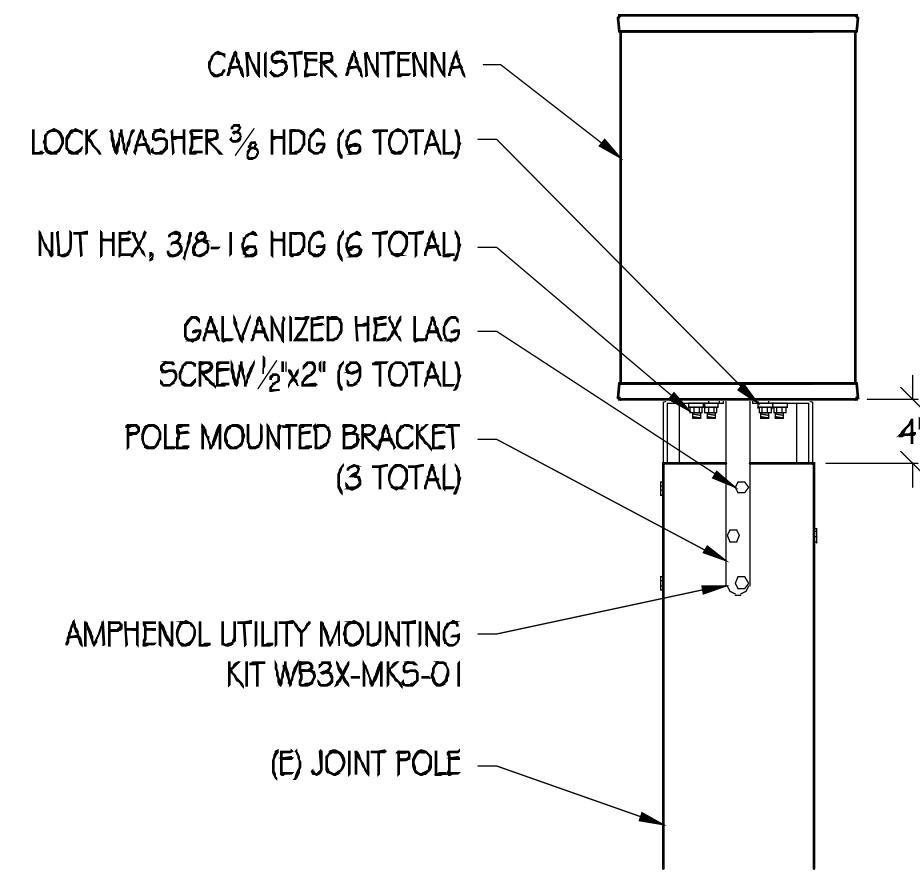
| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 11/13/18 | CD 90% |
| | 07/24/19 | CD 100% |

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 CHECKED BY: T. DICARLO
 APPROVED BY: B. McCOMB
 DATE: 07/24/19

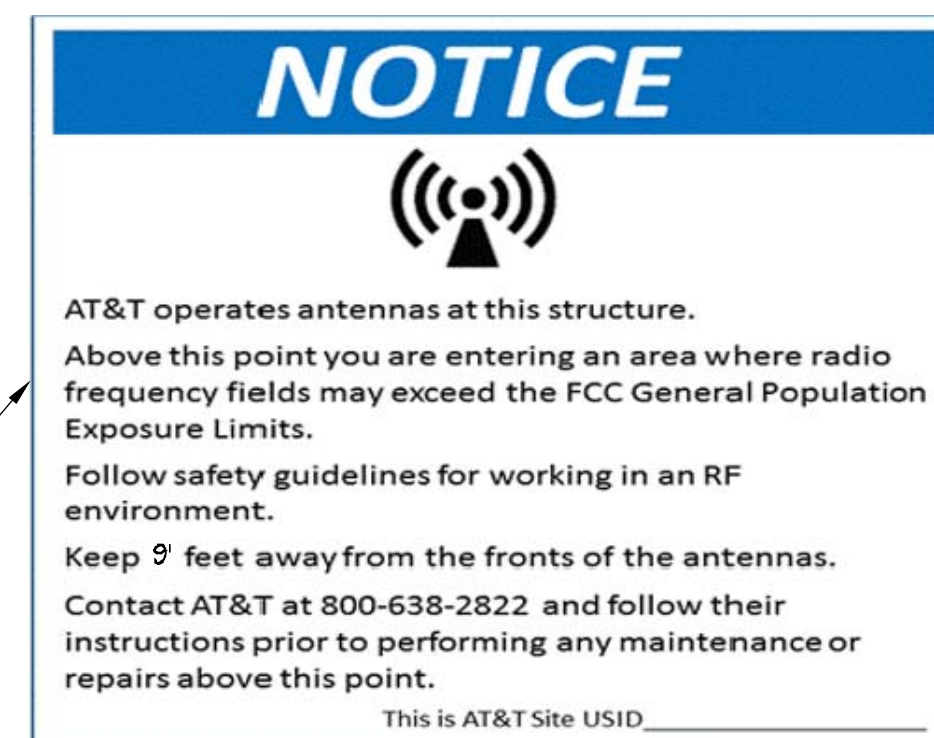
SHEET TITLE:
 DETAILS
 SHEET NUMBER
A-5

STRUCTURAL STEEL NOTES:

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS5) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

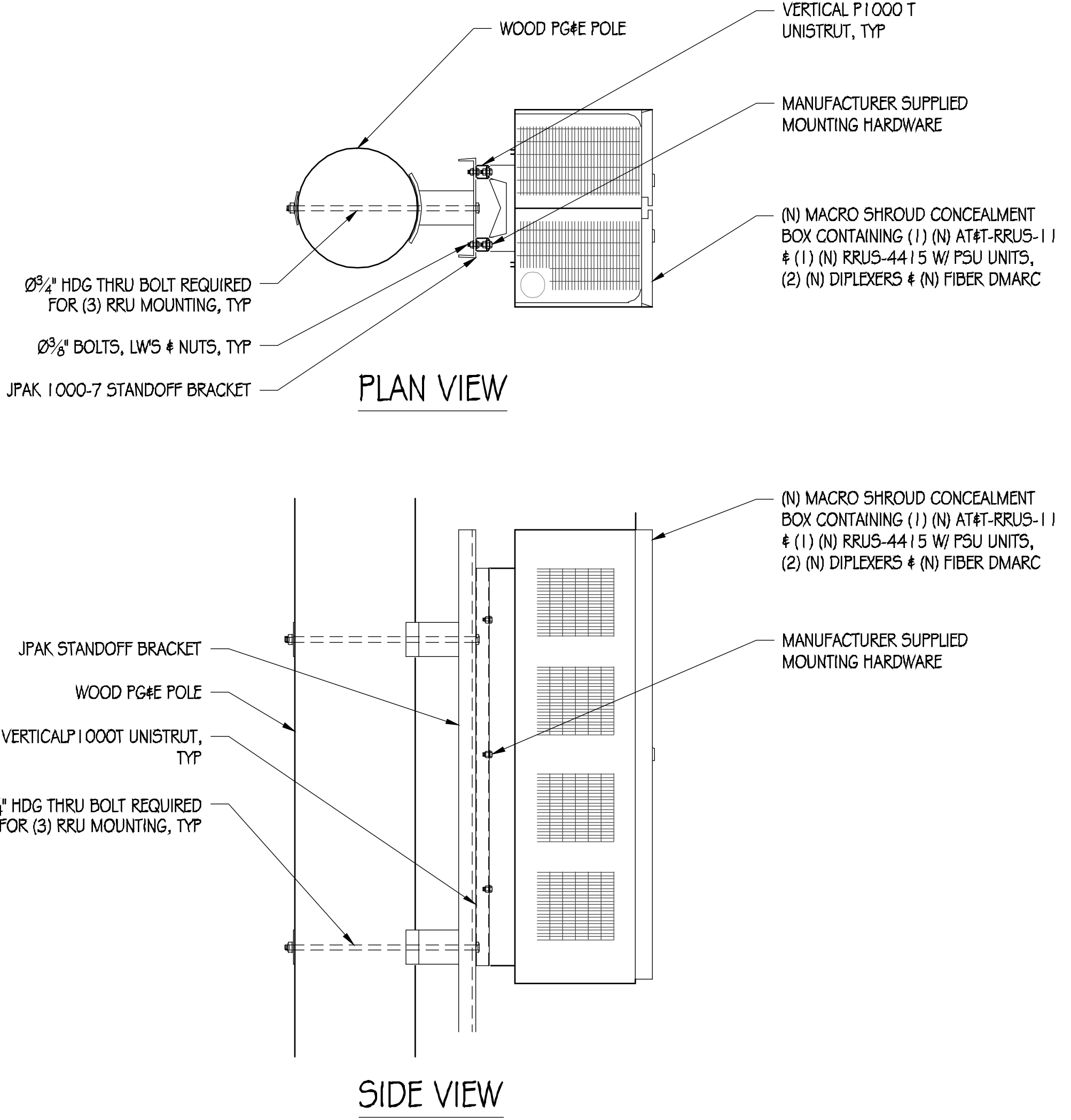


1 POLE-TOP ANTENNA MOUNT DETAIL
1" = 1'

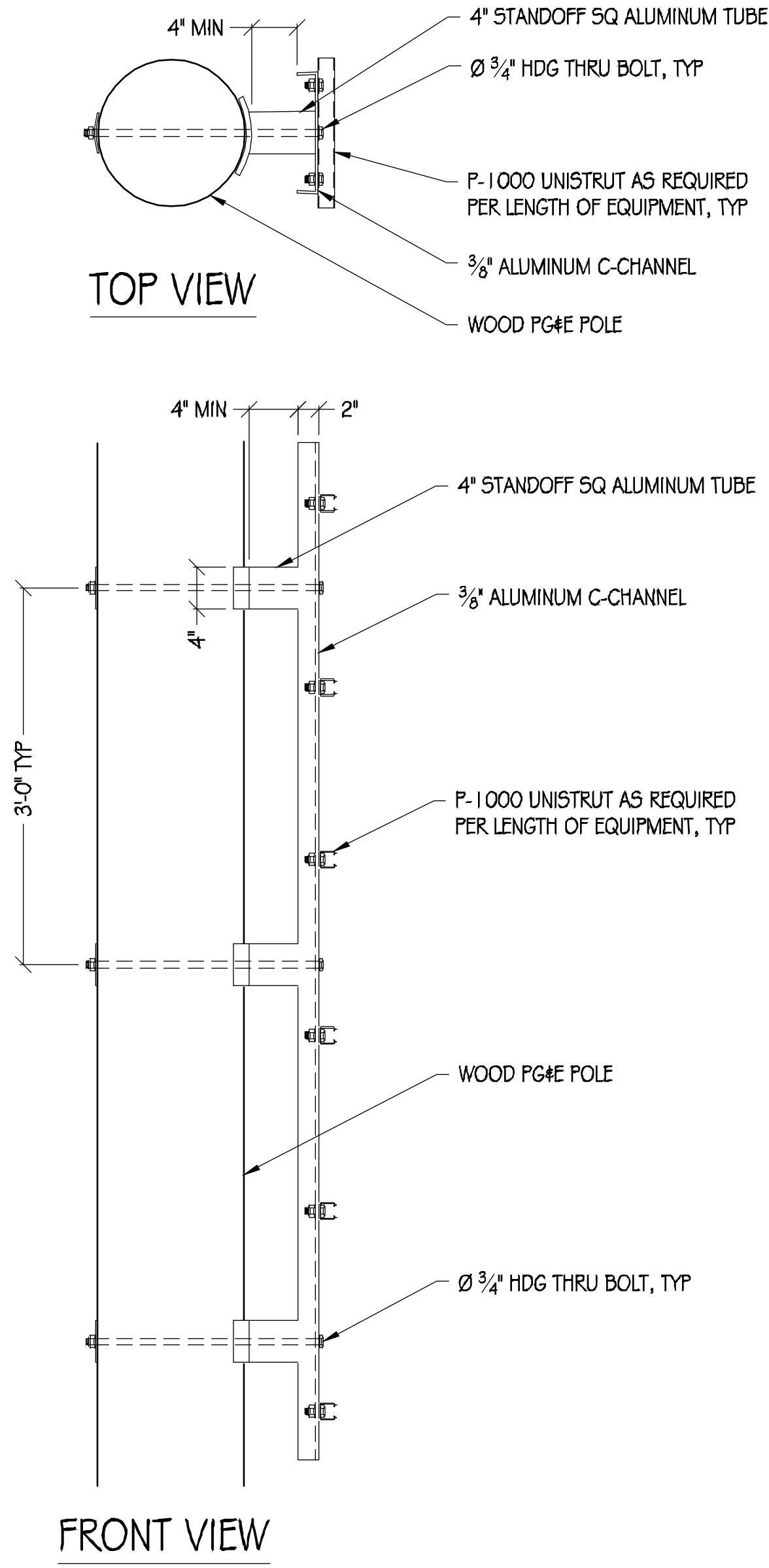


2 NOTICE SIGNAGE
NTS

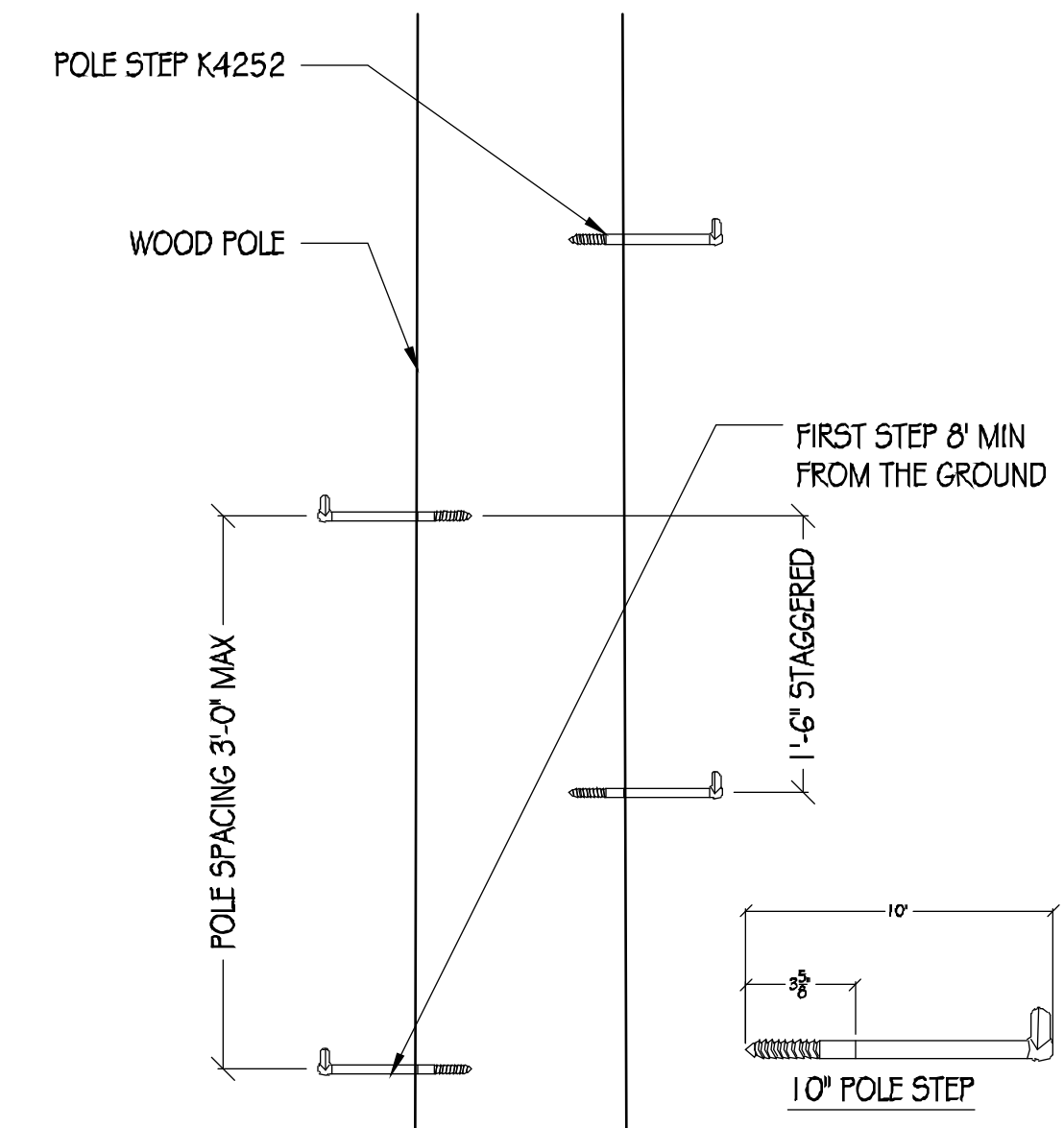
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
 - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA.



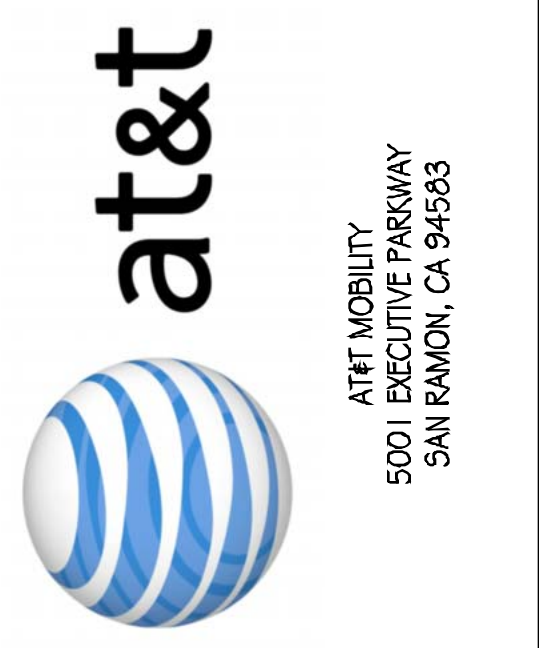
3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



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CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/24/19

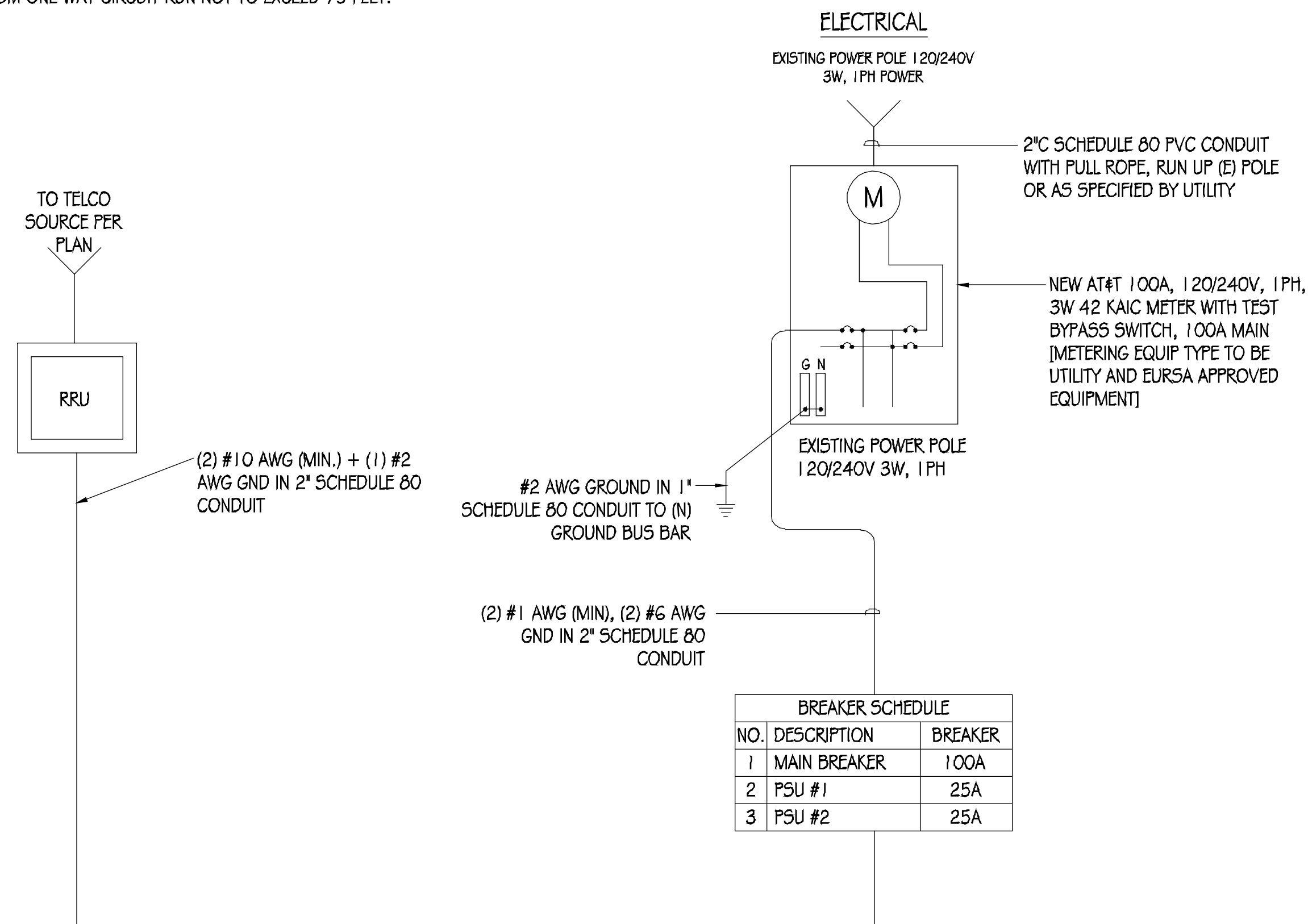
SHEET TITLE:
DETAILS
SHEET NUMBER:
A-6

GENERAL ELECTRICAL NOTES:

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

POWER AND TELCO NOTES:

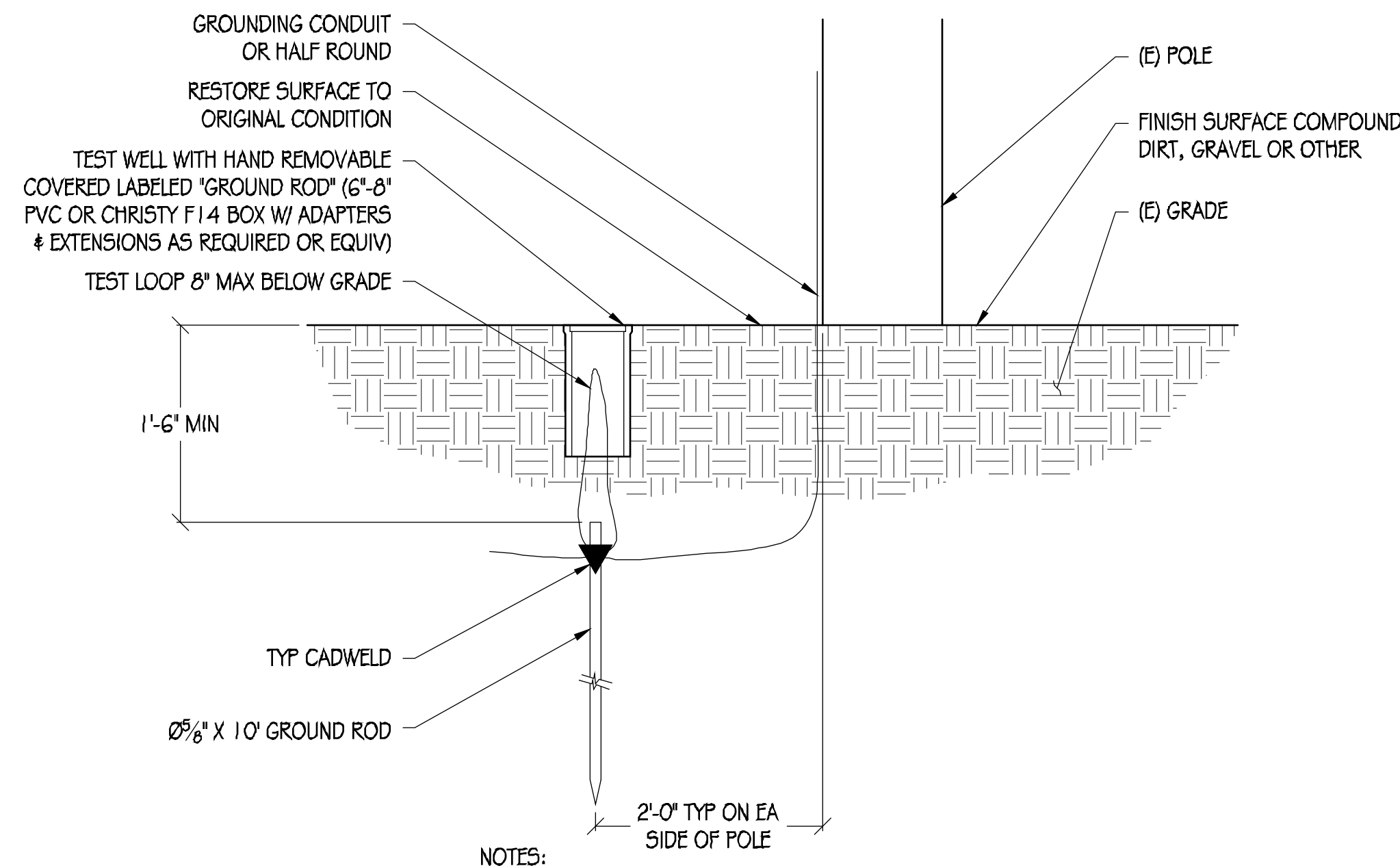
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



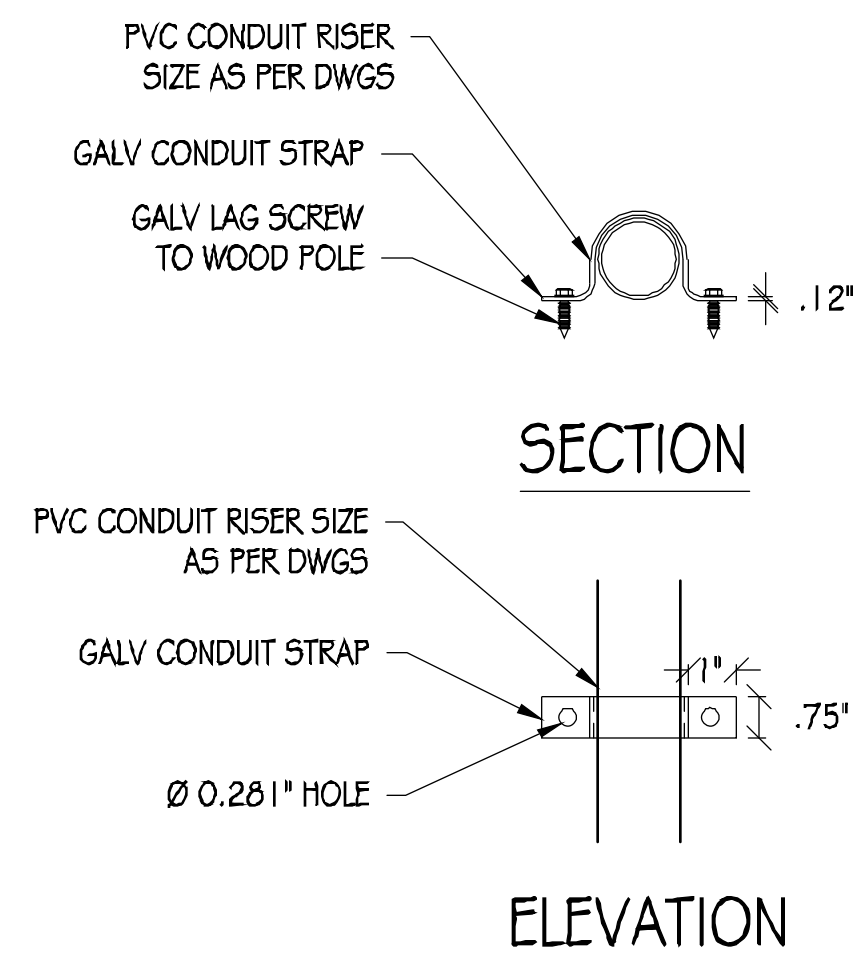
SINGLE-LINE DIAGRAM

LOAD SCHEDULE

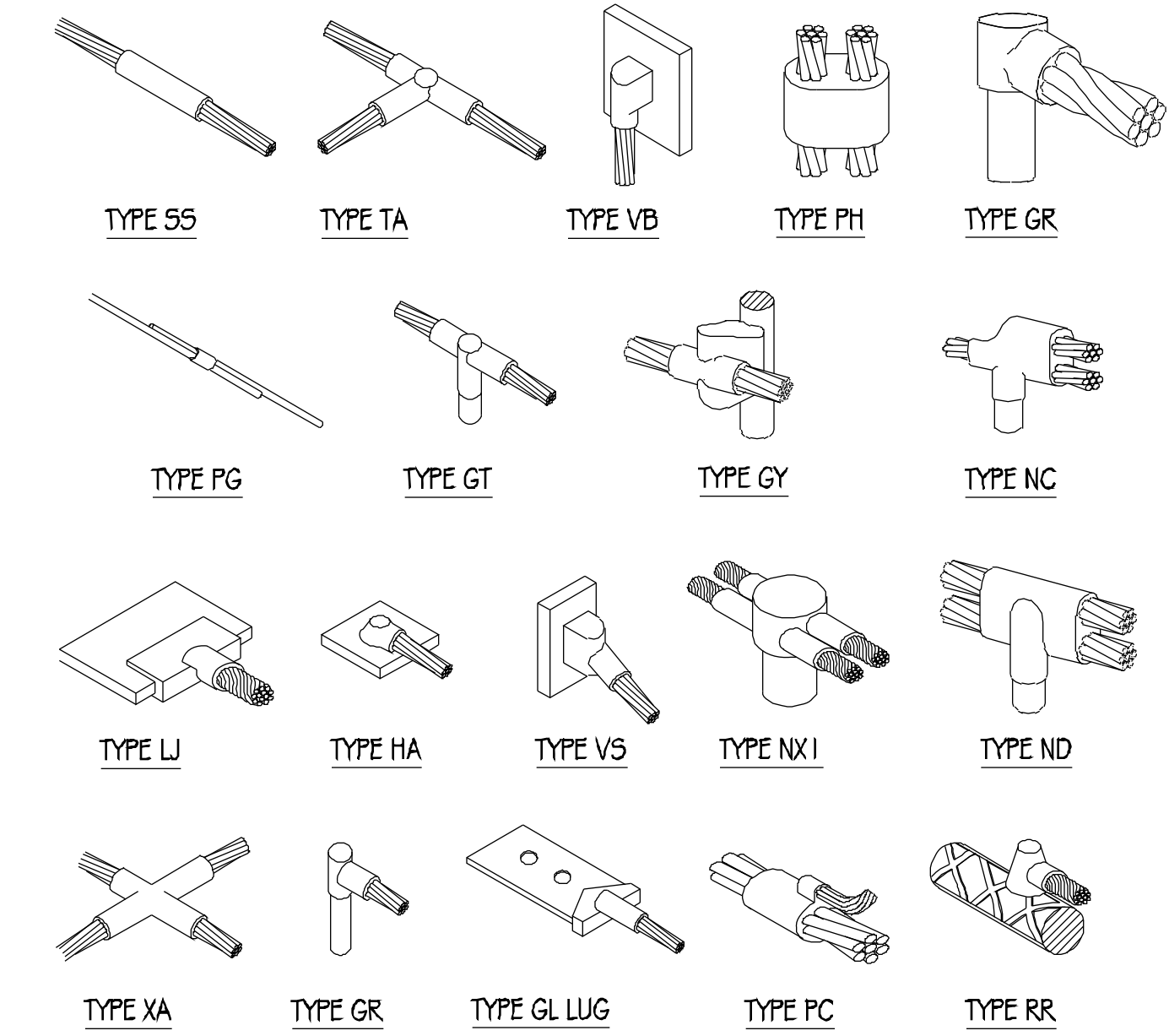
| MAKE/MODEL | QUANTITY | DESCRIPTION | DIMENSIONS | WEIGHT | TX/RX | MAX TRANSMIT POWER | W | HW |
|--------------------|----------|-------------|----------------------|--------------|-------|--------------------|-----|------|
| ERICSSON RRU5-4415 | 1 | RRU5 | 16.5" X 13.4" X 5.9" | 46 LBS | 2T/2R | 4 X 40W | 670 | 0.67 |
| ERICSSON RRU5-11 | 1 | RRU5 | 19.7" X 17.0" X 7.2" | 55 LBS | 2T/2R | 2 X 40W | 520 | 0.52 |
| NEMA 3R ENCLOSURE | 1 | DISCONNECT | 12.7" X 8.9" X 4.3" | 40 LBS (MAX) | N/A | N/A | N/A | N/A |



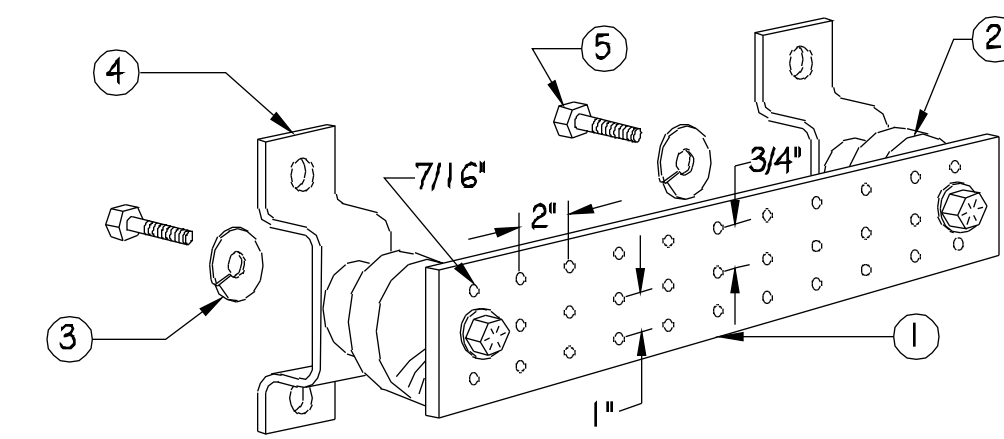
1 POLE GROUNDING DETAIL



2 CONDUIT RISER DETAIL



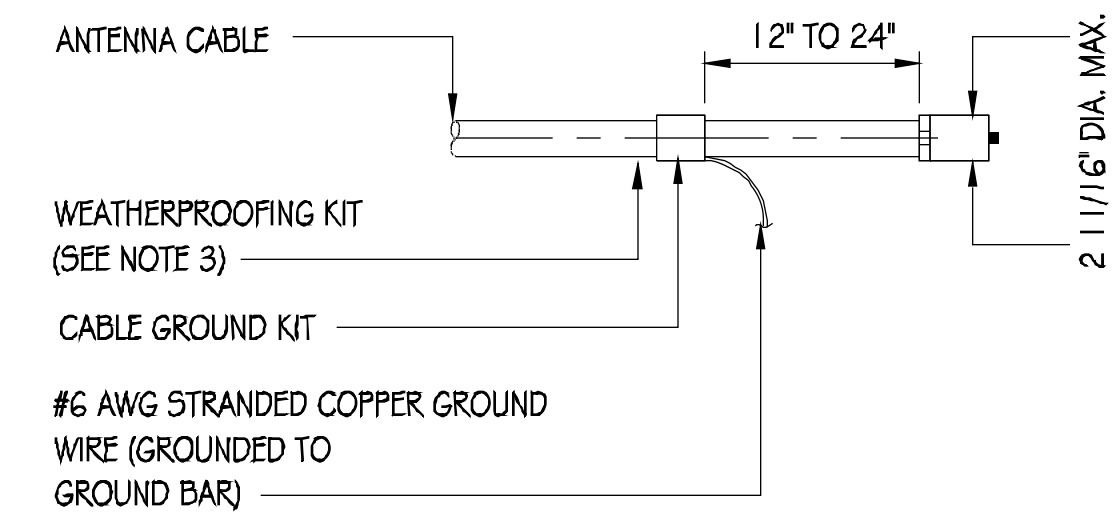
3 EXOTHERMIC WELD DETAILS



NOTES:

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-6056 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 TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

4 GROUND BAR DETAIL



NOTES:

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

5 GND KIT DETAIL



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SAN RAMON, CA 94583



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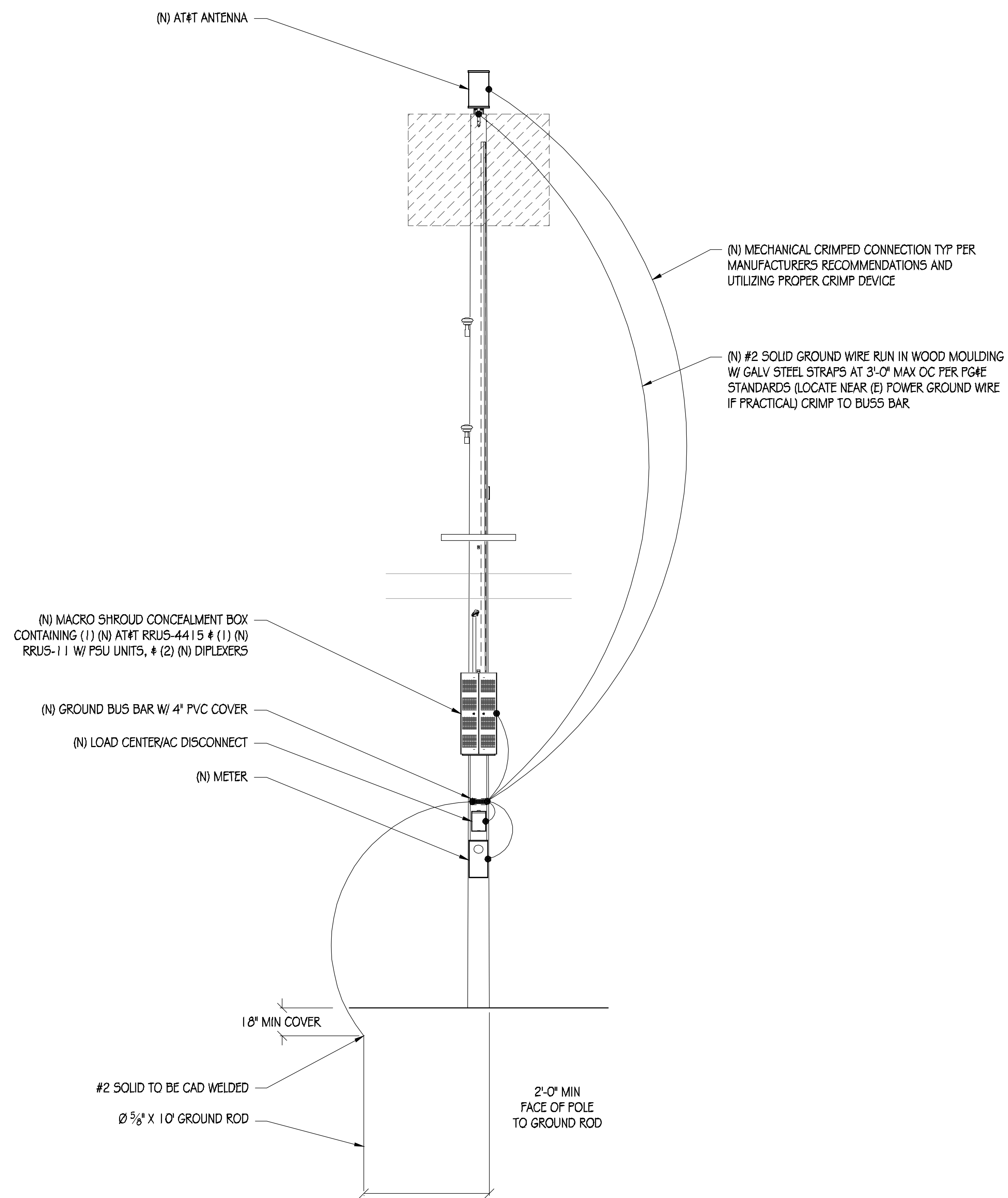
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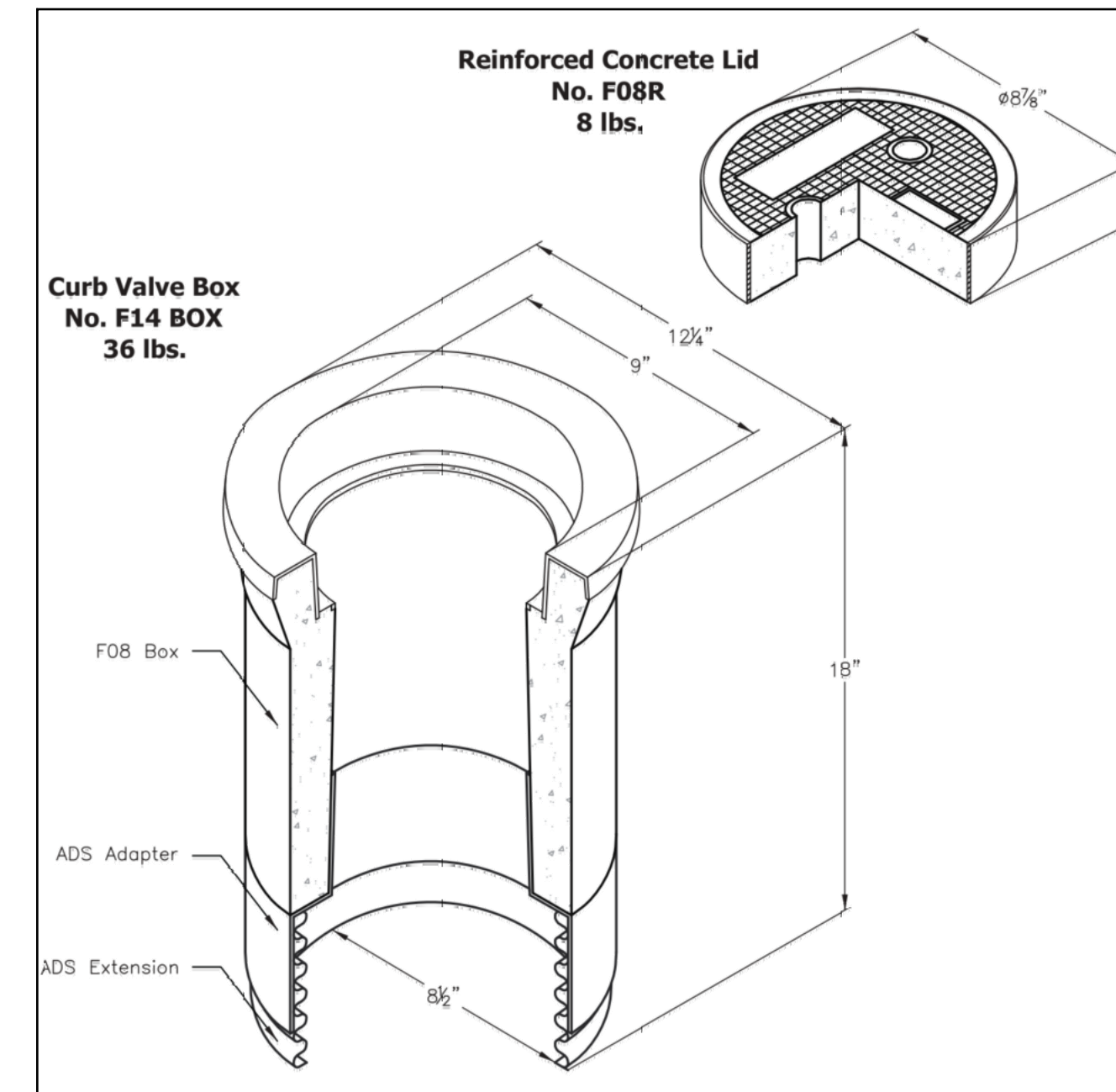
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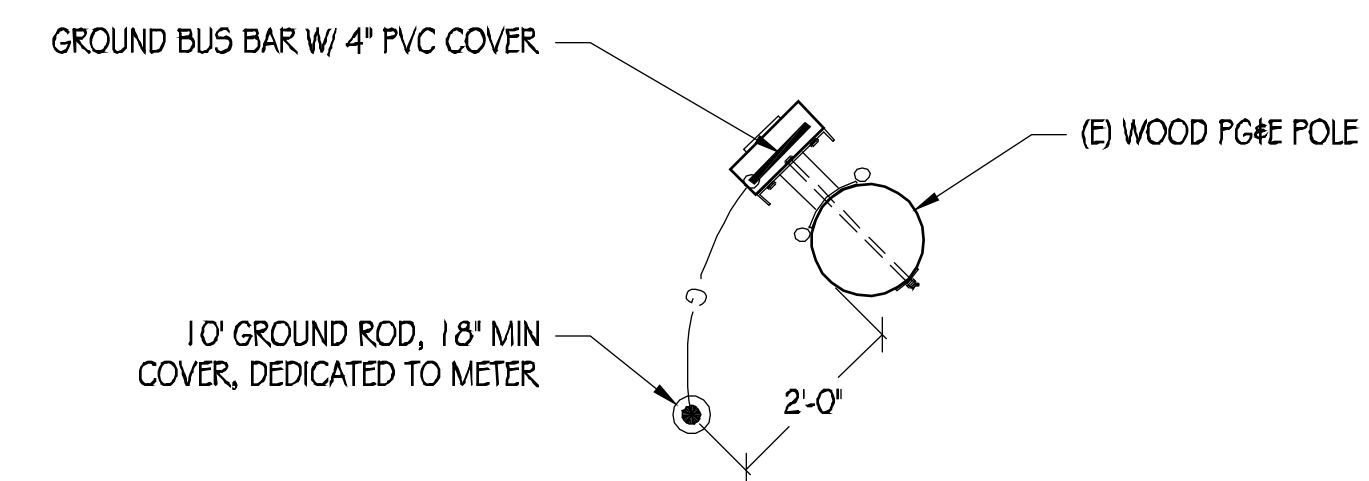
SINGLE-LINE DIAGRAM & DETAILS
SHEET NUMBER
E-1



POLE GROUNDING DIAGRAM
NTS



TEST WELL DETAIL
NTS



GROUNDING PLAN
NTS



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



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APPROVED BY: B. McCOMB

DATE: 07/24/19

SHEET TITLE:

GROUNDING DIAGRAMS

SHEET NUMBER

E-2



at&t

SITE ID: CRAN_RSFR_LOSAO_003
 SITE ADDRESS: 421 VALENCIA DR
 LOS ALTOS, CA 94022
 PM#: 114474320
 SITE TYPE: BRAND NEW PG&E POLE #TBD
 POLE OWNER: PG&E
 FA LOCATION: 14816592
 USID: 198294



AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583



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 IRVINE, CA 92614

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 DATE: 07/24/19

SHEET TITLE:

TITLE SHEET

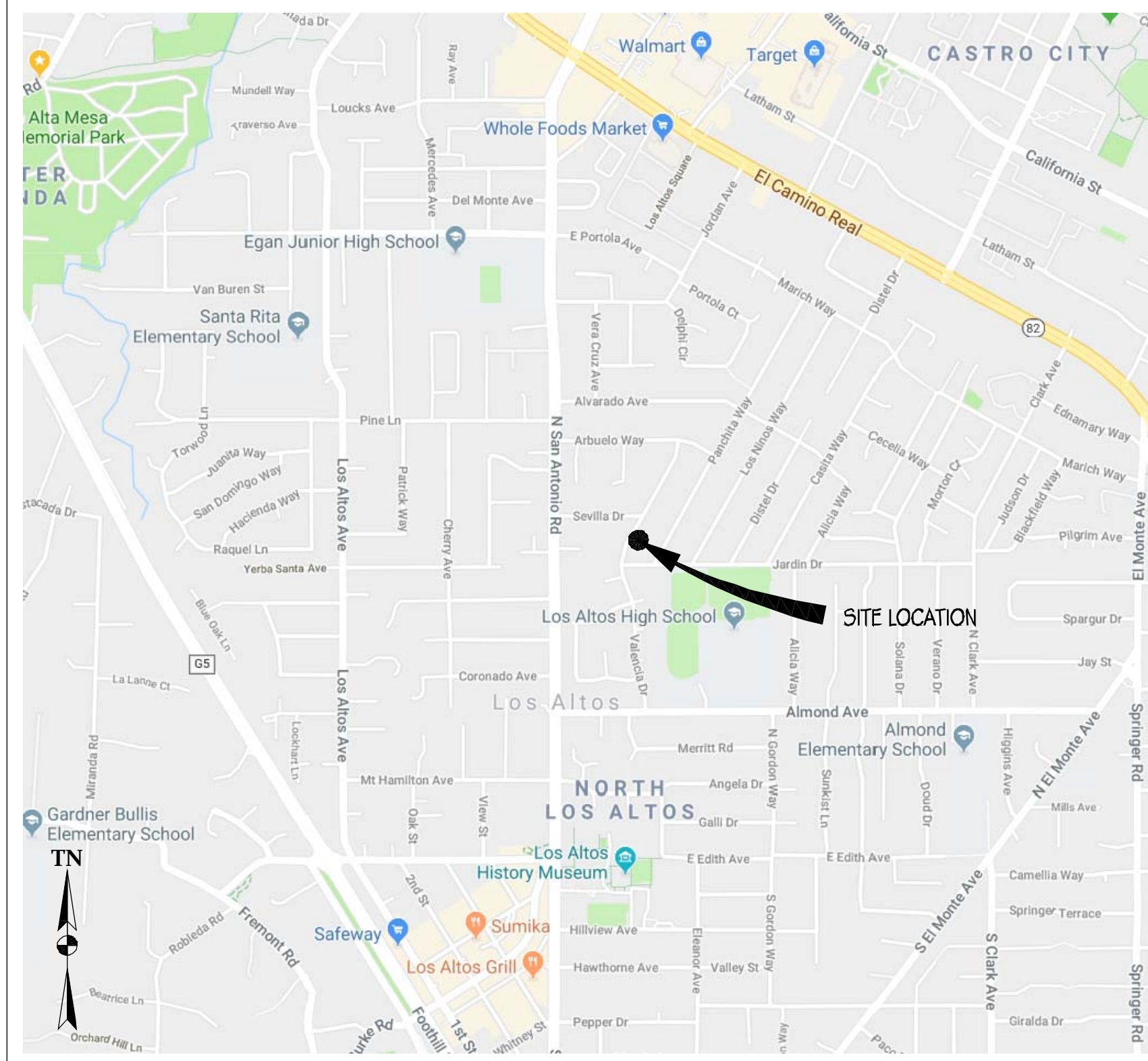
SHEET NUMBER

T-1

SITE INFORMATION

APPLICANT: AT&T MOBILITY
 5001 EXECUTIVE PARKWAY
 SAN RAMON, CA 94583
 AGENT: SURESITE
 36 EXECUTIVE PARK, SUITE 210
 IRVINE, CA 92614
 APN: ACROSS FROM 170-47-016
 SITE ADDRESS: 421 VALENCIA DR
 LOS ALTOS, CA 94022
 COUNTY: SANTA CLARA
 LATITUDE: 37° 23' 20.74" N (37.389094) NAD 83
 LONGITUDE: 122° 06' 42.82" W (-122.111894) NAD 83
 GROUND ELEVATION: ± 133.2' AMSL
 ZONING: PUBLIC ROW
 ZONING JURISDICTION: CITY OF LOS ALTOS
 PG&E SAP ID: 100509189
 Street CLASSIFICATION: LOCAL

VICINITY MAP



PROJECT TEAM

AGENT: SURESITE
 2033 GATEWAY PLACE, 6TH FLOOR
 SAN JOSE, CA 95110
 (949) 278-2962
 L.MEINERS@SURE-SITE.COM
 PROJECT MANAGERS:
 CHRIS JOHNSON
 ERICSSON
 6140 STONERIDGE MALL RD, SUITE 350
 PLEASANTON, CA 94588
 (408) 796-8443
 CHRISTOPHER.JOHNSON@ERICSSON.COM
 ARCHITECT/ENGINEER OF RECORD:
 BRETT McCOMB
 PRECISION DESIGN & DRAFTING, INC
 11768 ATWOOD ROAD, SUITE #20
 AUBURN, CA 95603
 (530) 823-6546
 BRETT@PDND.COM
 CONSTRUCTION MANAGER:
 DELBERT BUTCHER
 ERICSSON
 6140 STONERIDGE MALL ROAD, SUITE 350
 PLEASANTON, CA 94588
 (720) 317-7282

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON A (N) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.
 SCOPE OF WORK:
 1. INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON GO95 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRU-4415 & (1) RRU-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2-0GT CYLINDRICAL ANTENNA.
 2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
 3. UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
 4. FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

DRAWING INDEX

| SHEET NO: | SHEET TITLE |
|-----------|--|
| T-1 | TITLE SHEET |
| T-2 | GENERAL NOTES, LEGEND, & ABBREVIATIONS |
| A-1 | SITE PLAN |
| A-2 | EQUIPMENT PLAN & ANTENNA PLANS |
| A-3 | ELEVATIONS |
| A-4 | ELEVATIONS |
| A-5 | DETAILS |
| A-6 | DETAILS |
| E-1 | SINGLE-LINE DIAGRAM & DETAILS |
| E-2 | GROUNDING DIAGRAMS |

CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
- 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
 - 2016 CALIFORNIA BUILDING CODE
 - 2016 CALIFORNIA ELECTRICAL CODE
 - 2016 CALIFORNIA MECHANICAL CODE
 - 2016 CALIFORNIA PLUMBING CODE
 - 2016 CALIFORNIA FIRE CODE
 - LOCAL BUILDING CODES
 - CITY/COUNTY ORDINANCES
 - ANSI/AIA-TIA-222-G

HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583
 TO: 413 VALENCIA DR, LOS ALTOS, CA 94022

- HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
- TURN RIGHT ONTO SUNSET DR 0.1 MI
- USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
- USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
- MERGE ONTO I-680 S 25.5 MI
- TAKE EXIT 9 FOR JACKLIN ROAD 0.3 MI
- TURN RIGHT ONTO JACKLIN RD 0.9 MI
- CONTINUE ONTO N ABEL ST 0.7 MI
- TURN RIGHT ONTO MARYLINN DR 0.3 MI
- TURN LEFT ONTO N ABBOTT AVE 0.6 MI
- CONTINUE TO FOLLOW CA-237 W 0.4 MI
- USE THE LEFT 2 LANES TO TAKE THE CA-237 W RAMP TO MTN VIEW 0.3 MI
- CONTINUE ONTO CA-237 W
- CONTINUE ON EL CAMINO REAL. DRIVE TO VALENCIA DR IN LOS ALTOS
- END AT: 413 VALENCIA DR, LOS ALTOS, CA 94022

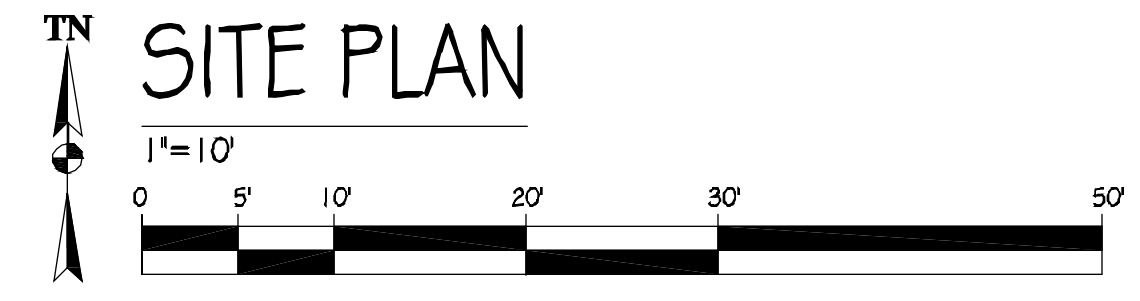
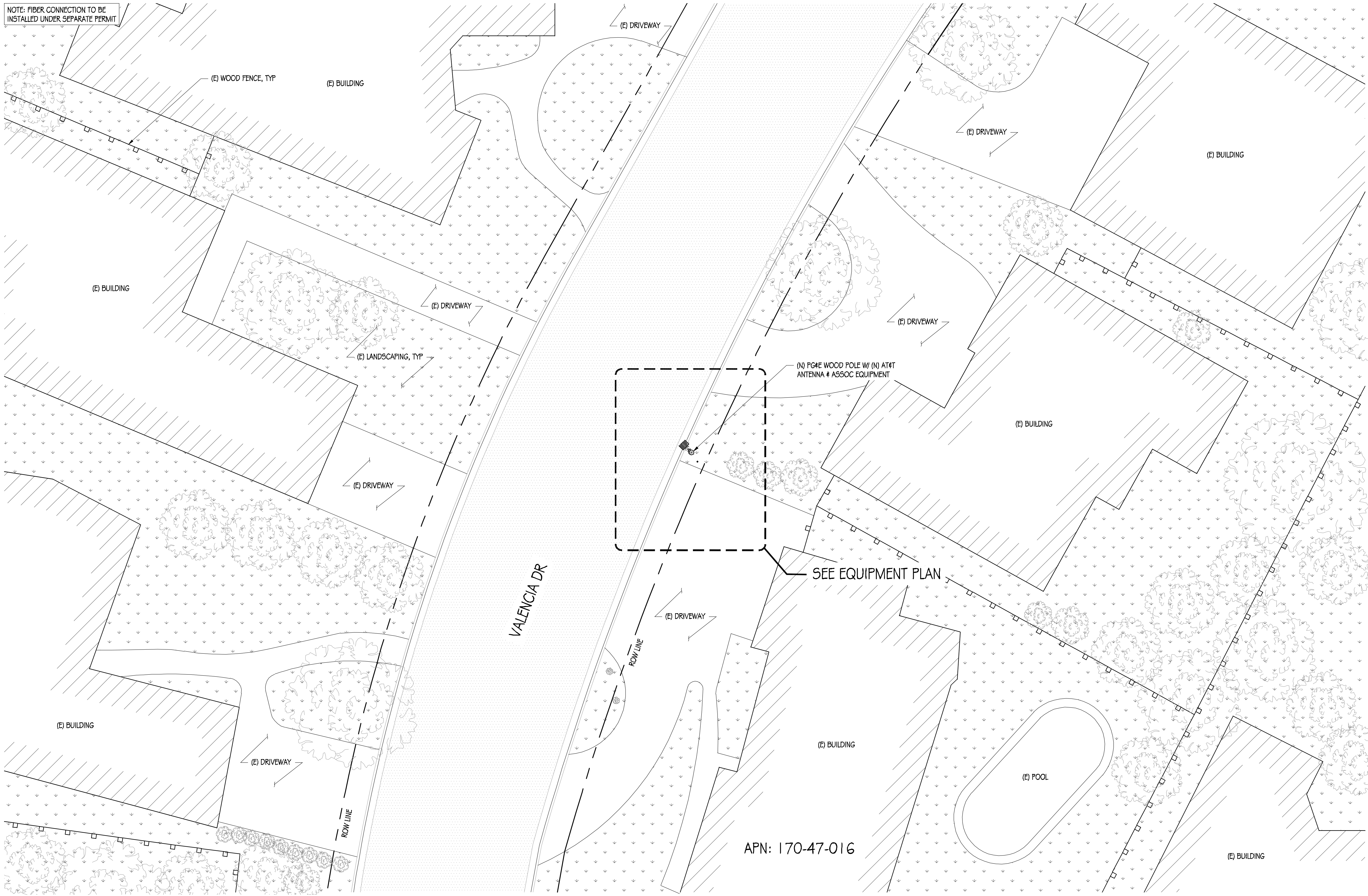
ESTIMATED TIME: 84 MIN ESTIMATED DISTANCE: 41.4 MI



ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



SITE PLAN

APN: 170-47-016



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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421 VALENCIA DR
LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 11/13/18 | CD 90% |
| | 07/24/19 | CD 100% |
| | | |
| | | |

DRAWN BY: T.J. / R.M.

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 07/24/19

SHEET TITLE:

SITE PLAN

SHEET NUMBER

A-1

NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.

VALENCIA DR

(N) PG&E WOOD POLE W/ (N) AT&T ANTENNA & ASSOC EQUIPMENT
GROUND ROD & TEST WELL TO BE INSTALLED AT PROPOSED LOCATION. LOCATION MAY CHANGE BASED UPON USA MARKINGS. RESTORATION TO MEET CITY OF CAMPBELL CITY STANDARD DETAILS

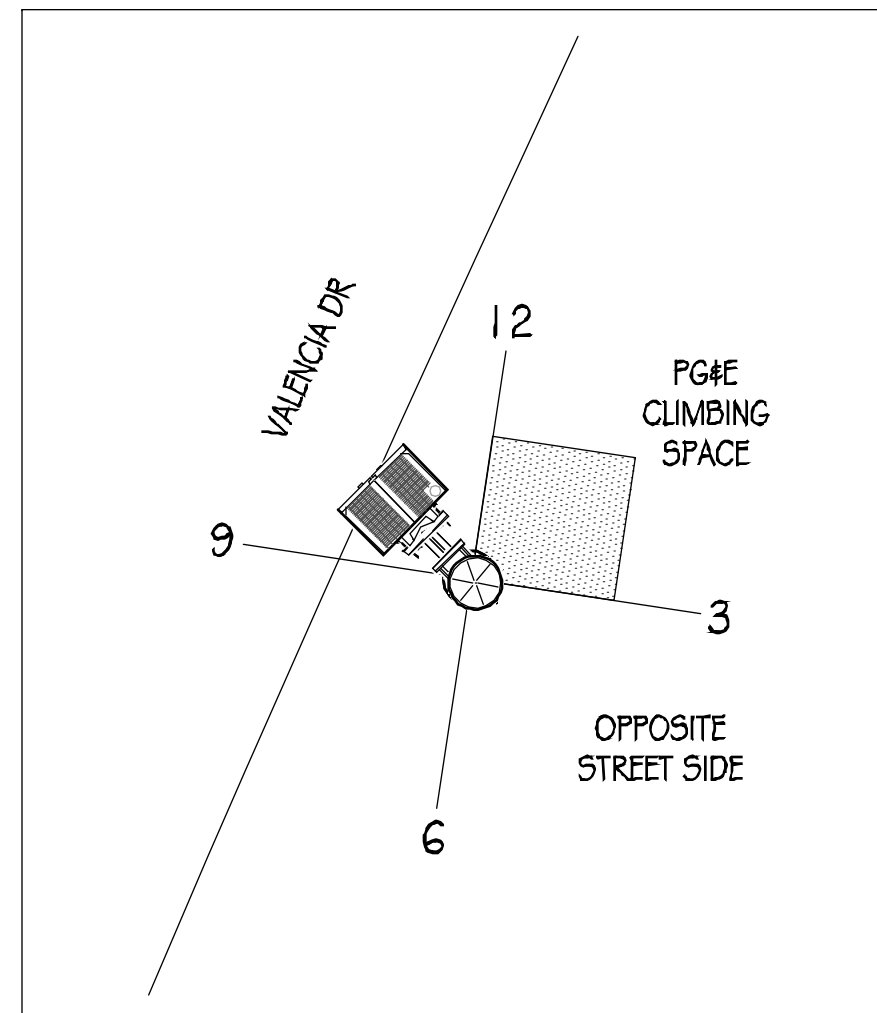
SEE ANTENNA PLANS

(E) LANDSCAPING

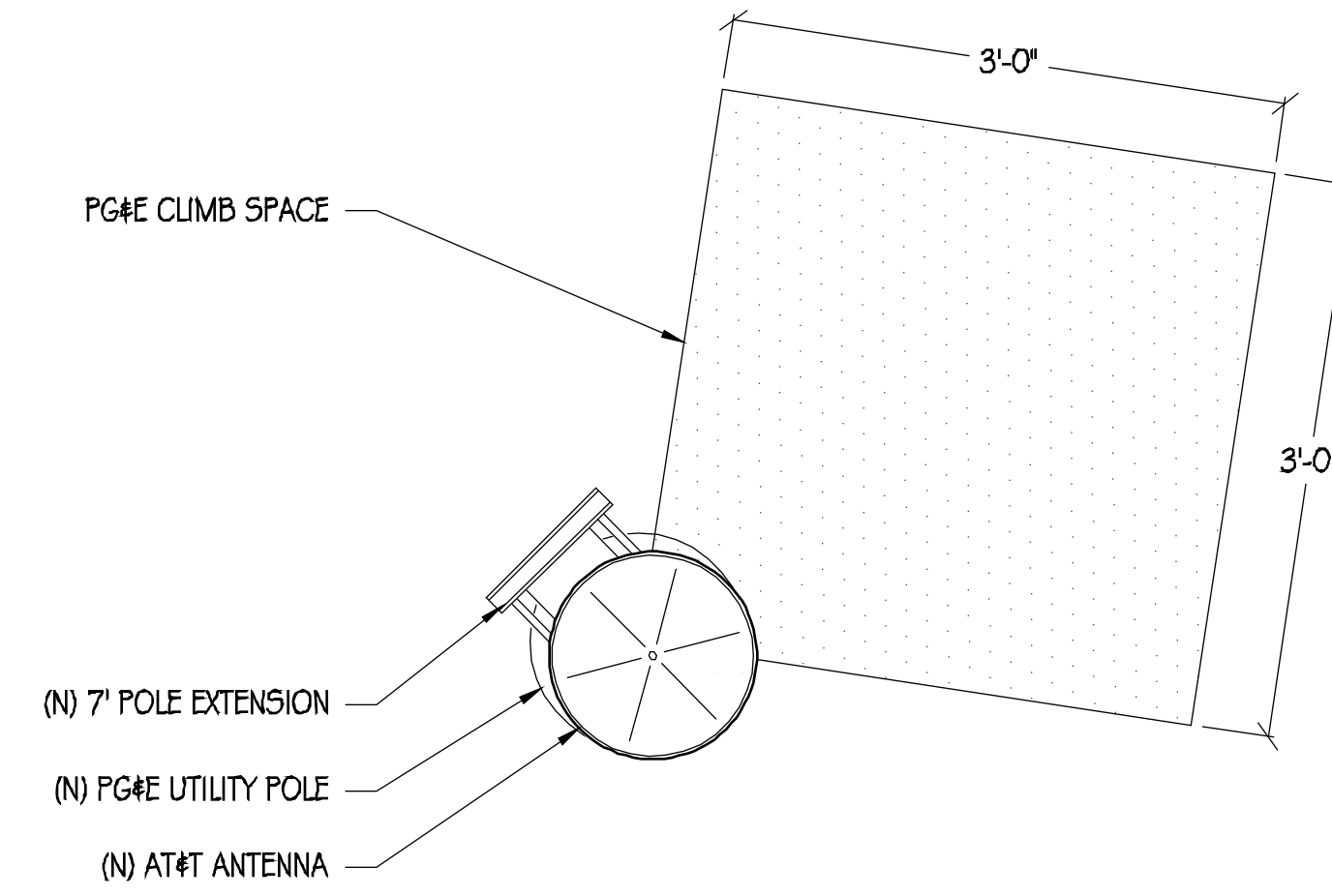
(E) DRIVEWAY

ROW LINE

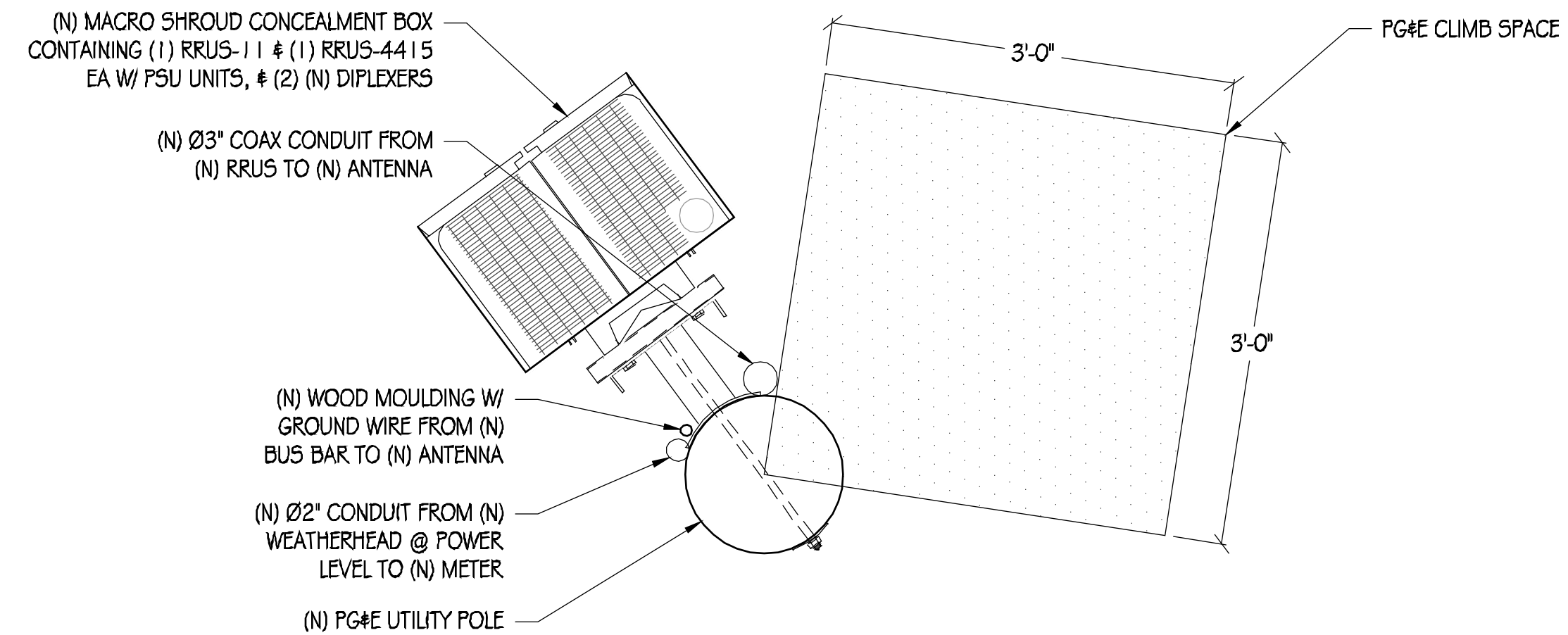
TN
EQUIPMENT PLAN
1/2" = 1'



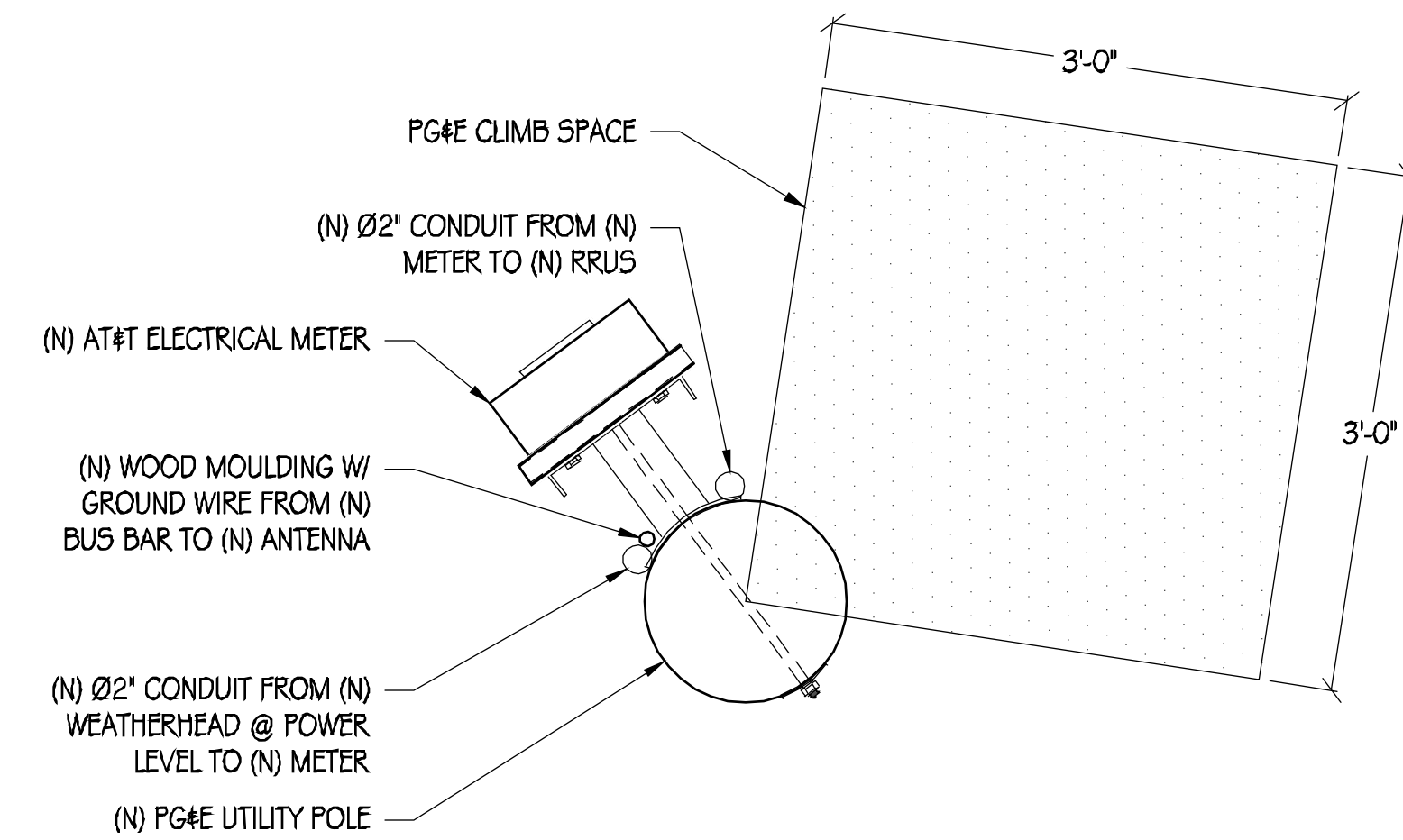
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



TN
ANTENNA PLAN
1" = 1'



TN
RRH PLAN
1" = 1'



TN
ELECTRICAL METER PLAN
1" = 1'



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APPROVED BY: B. McCOMB

DATE: 07/24/19

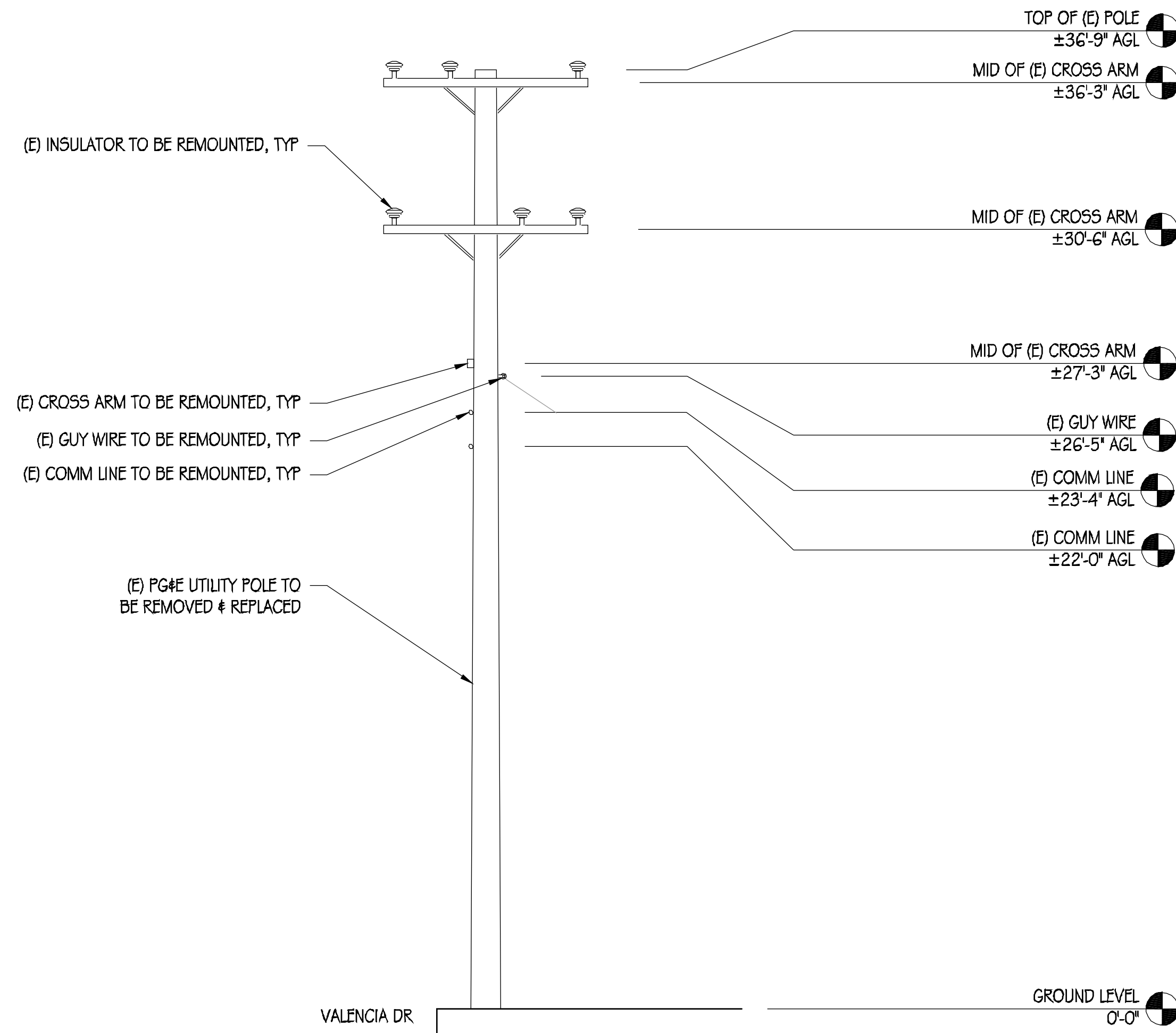
SHEET TITLE:

EQUIPMENT PLAN &
ANTENNA PLANS

SHEET NUMBER

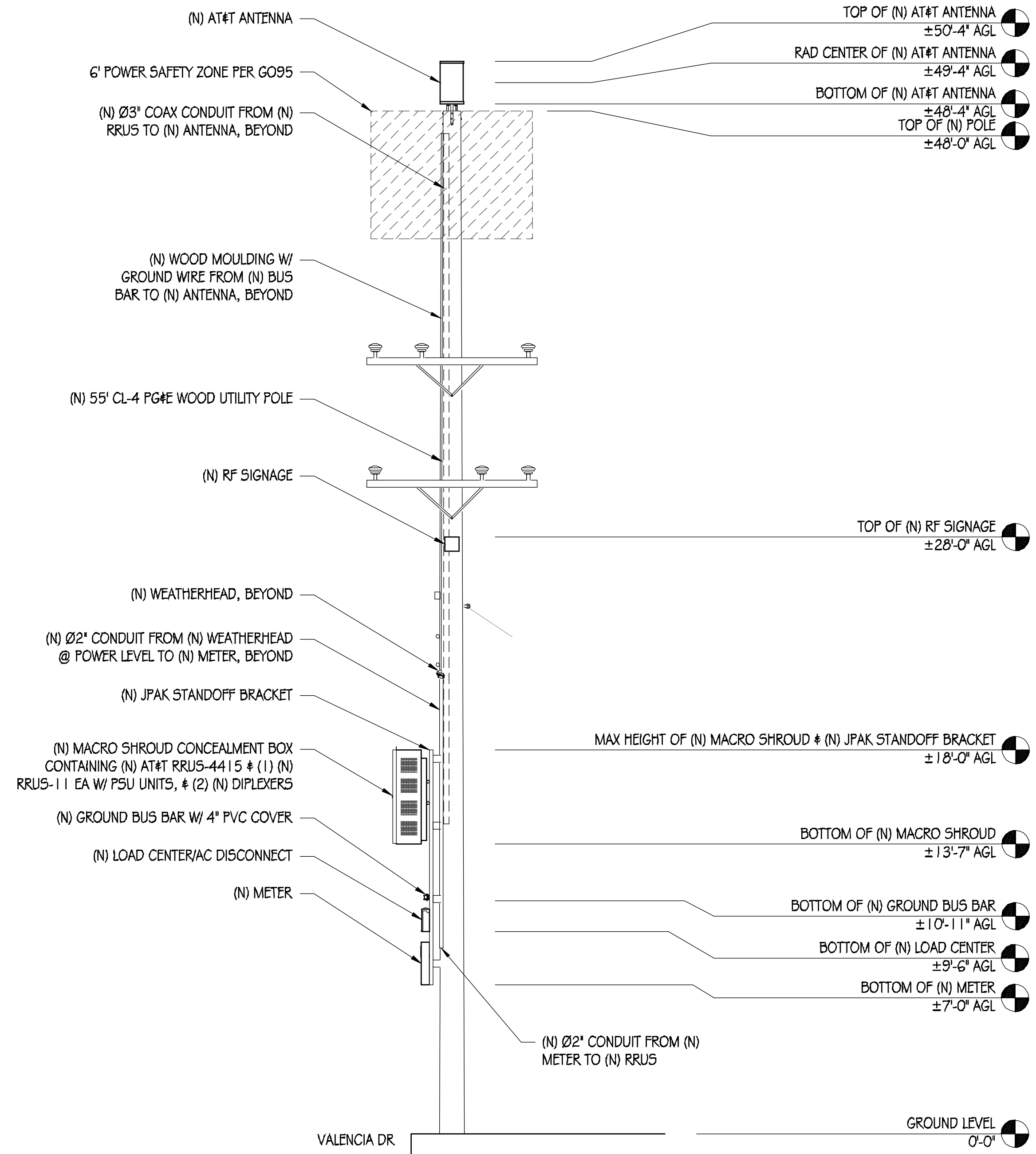
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING SOUTHWEST ELEVATION

1/4" = 1'-0"



NEW SOUTHWEST ELEVATION

1/4" = 1'-0"



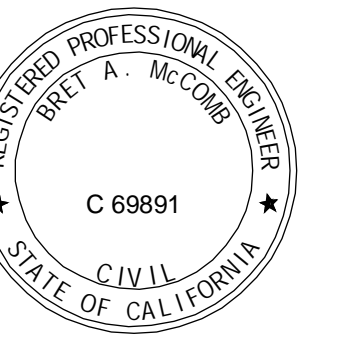
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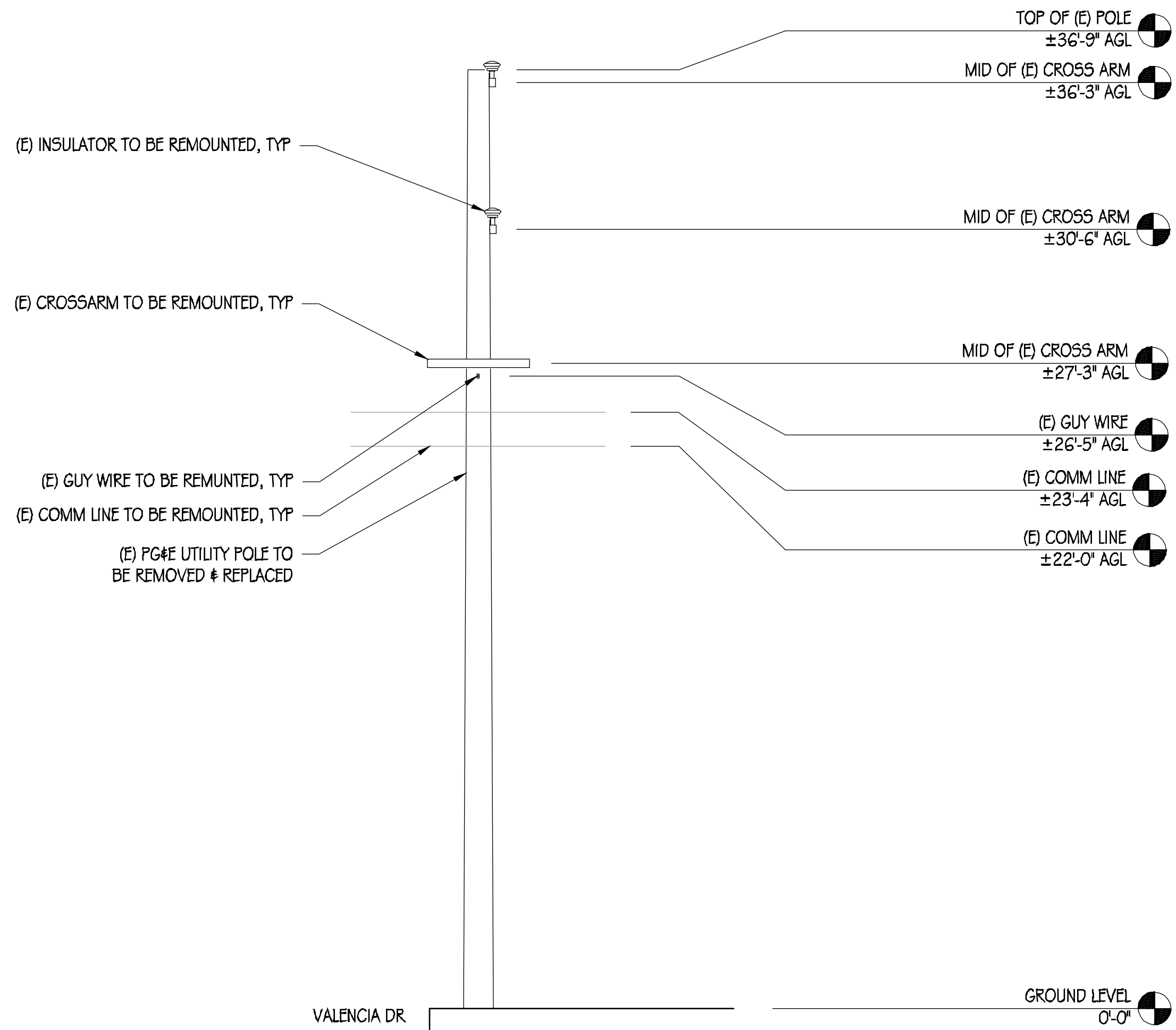
SHEET TITLE:

ELEVATIONS

SHEET NUMBER

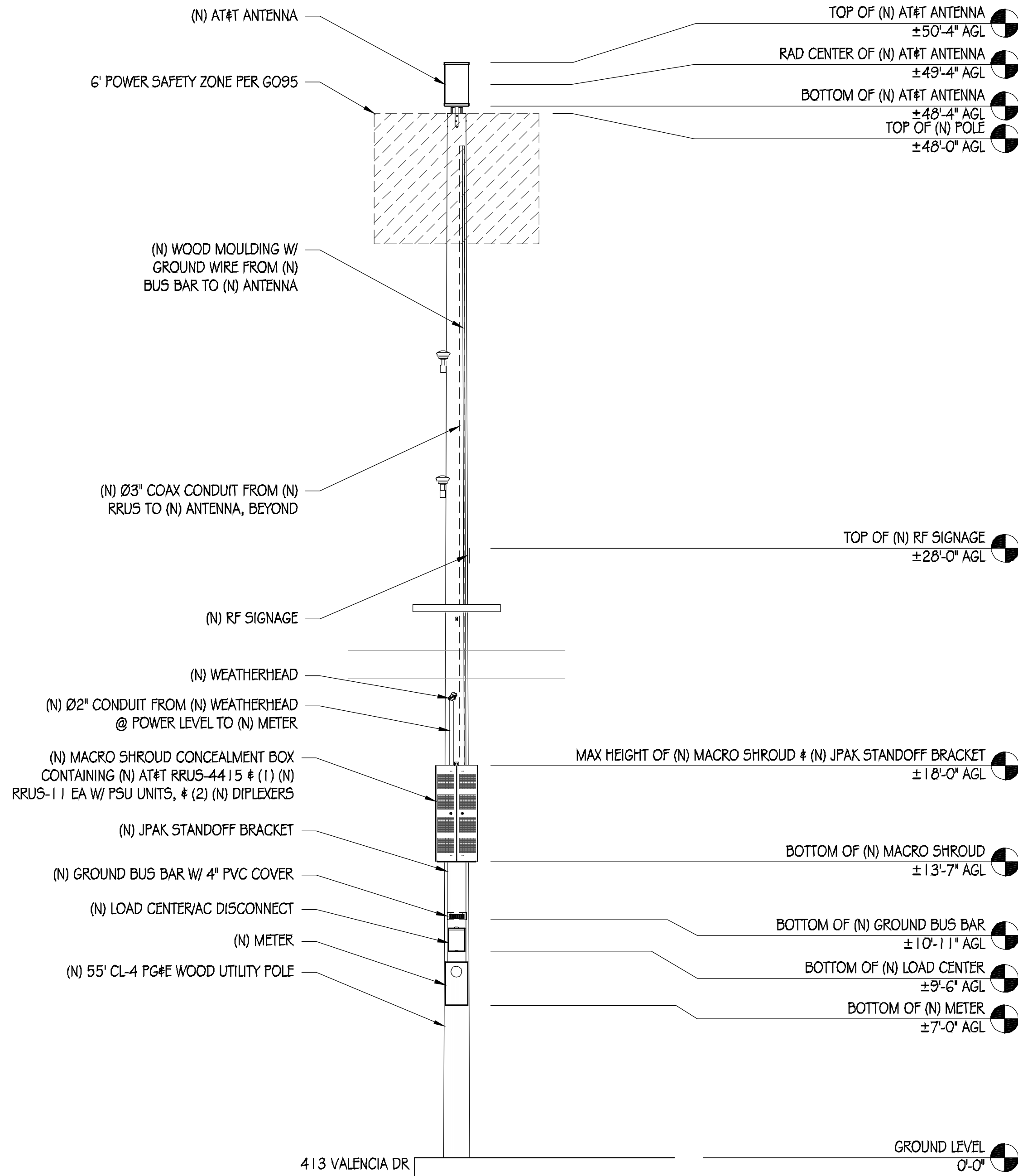
A-3

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING EAST ELEVATION

1/4" = 1'-0"



EXISTING EAST ELEVATION

1/4" = 1'-0"



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SHEET TITLE:

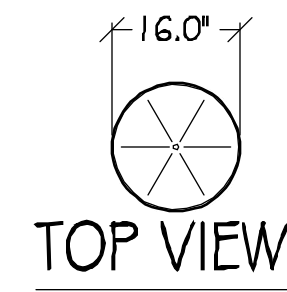
ELEVATIONS

SHEET NUMBER

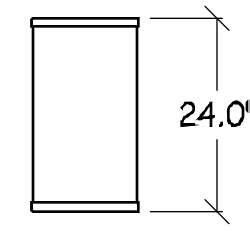
A-4

KMW FX-OM2L1OH2-06T

WIND AREA: 2.67 SQ FT
 WEIGHT: 34.2 LBS
 DIMENSIONS: Ø 16.0" X 24.0" TALL
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

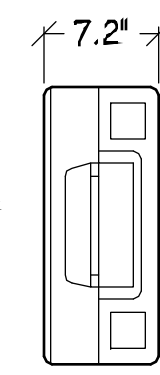


FRONT VIEW

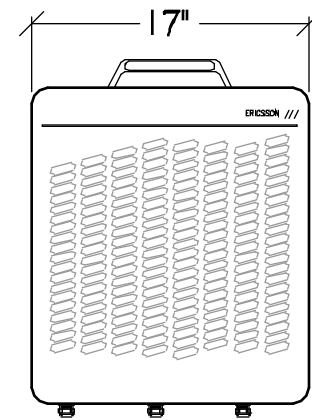
1 ANTENNA
 1/2" = 1'

ERICSSON RRUS-11

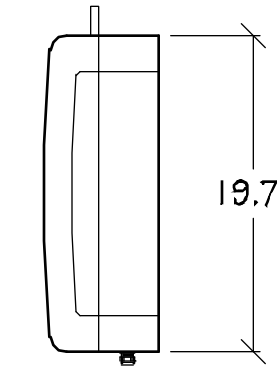
TOTAL WEIGHT: 55 LBS
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

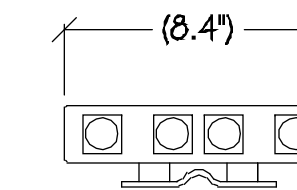


SIDE VIEW

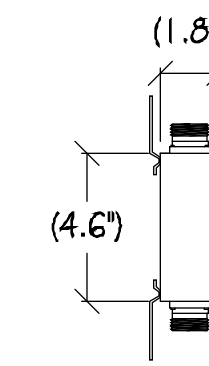
2 RRUS-11 DETAIL
 1" = 1'

COMMSCOPE
 CBC1923T-4310/
 E11F13P06

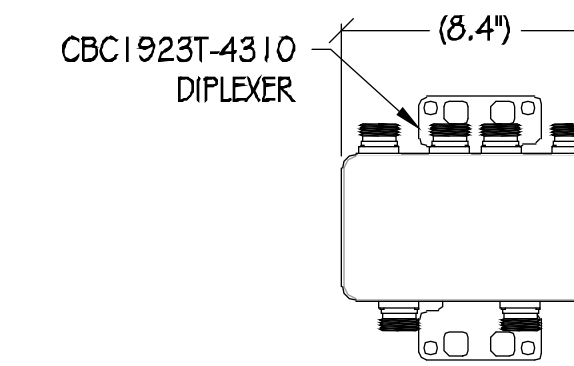
COLOR: GRAY
 TOTAL WEIGHT: +/- 4.4 LB
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

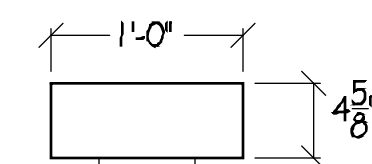


SIDE VIEW

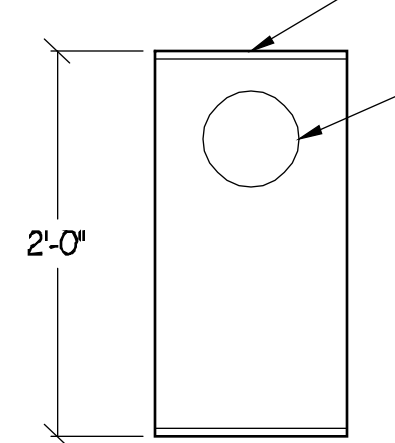


FRONT VIEW

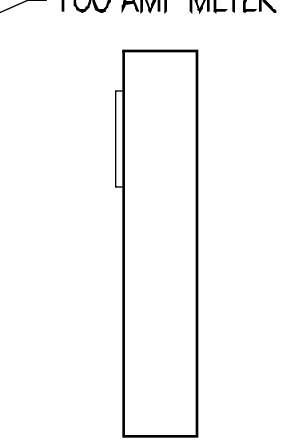
3 DIPLEXER DETAIL
 1" = 6"



TOP VIEW



FRONT VIEW



SIDE VIEW

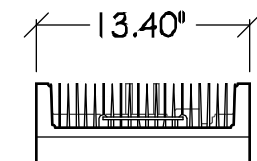
4 METER DETAIL
 1" = 1'

COOPER B-LINE 114TB ELECTRICAL PANEL TO MEET COMMERCIAL PG&E REQUIREMENTS WITH TEST BYPASS

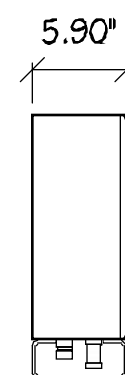
100 AMP METER

ERICSSON RRUS-4415

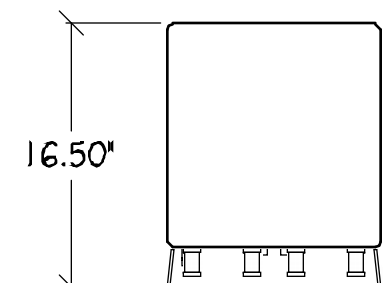
TOTAL WEIGHT: UNDER 46 LBS
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

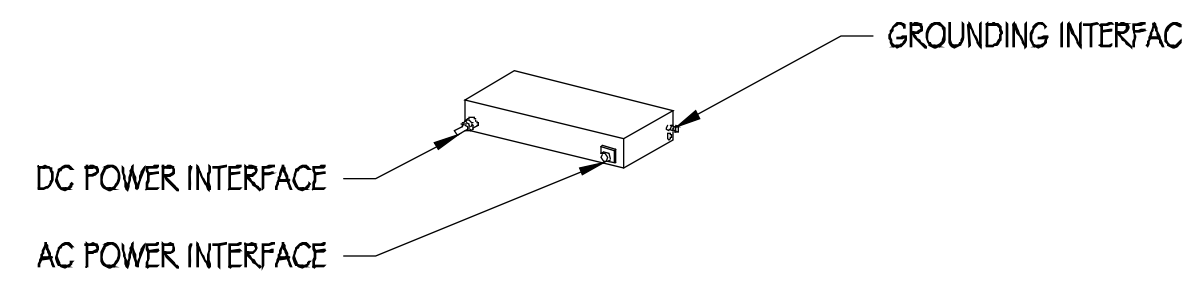


FRONT VIEW

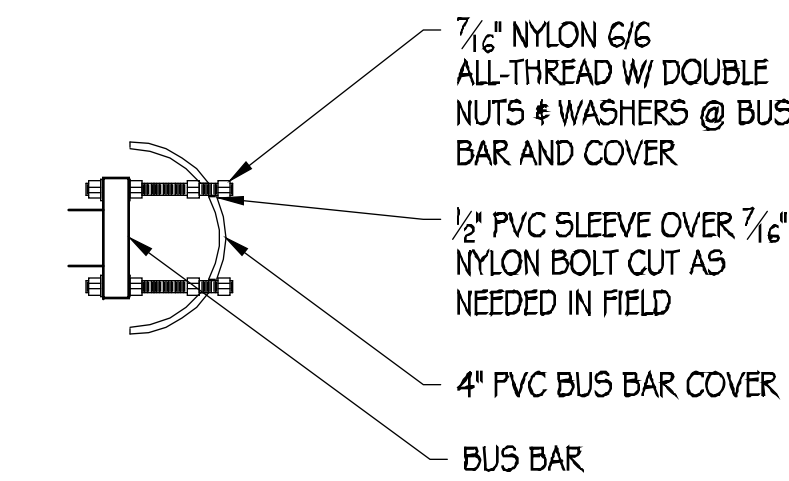
5 RRUS-4415 DETAIL
 1" = 1'

ERICSSON PSU AC 08

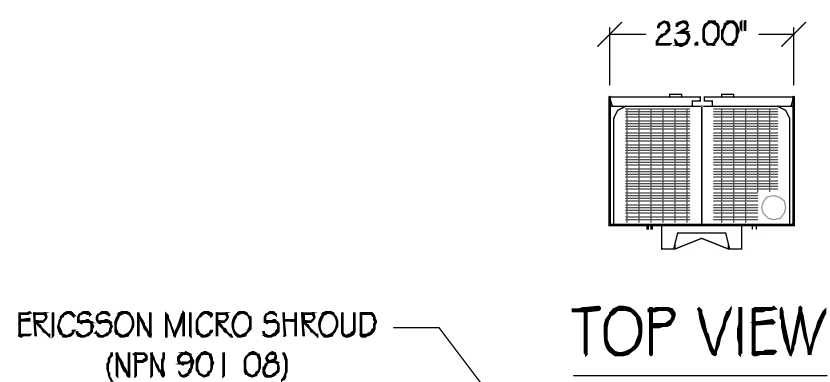
DIMENSIONS: 2.72" X 10.79" X 7.09"
 WEIGHT: 11.46 LBS



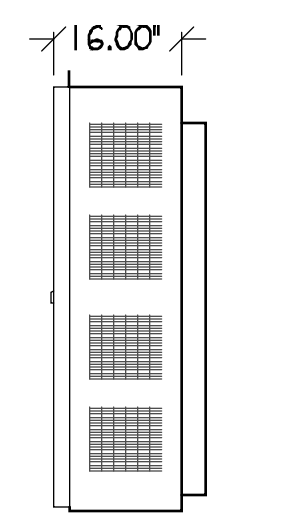
6 AC POWER MODULE
 NTS



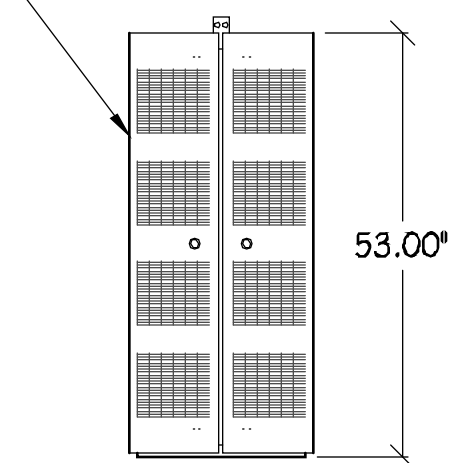
7 BUS BAR COVER
 6" = 1'



TOP VIEW

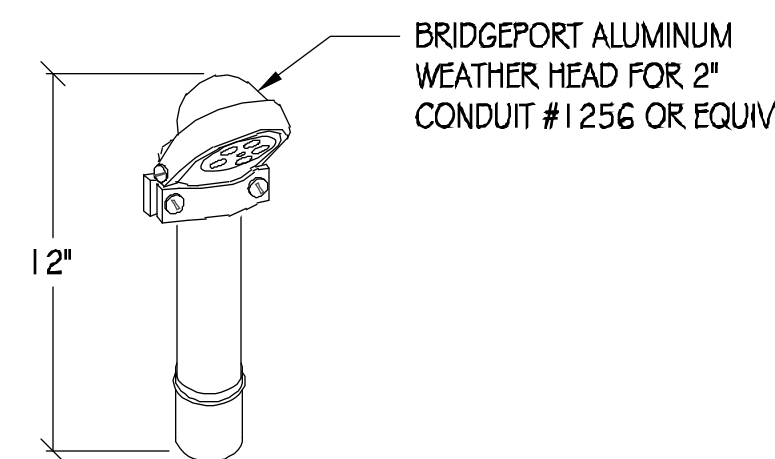


SIDE VIEW



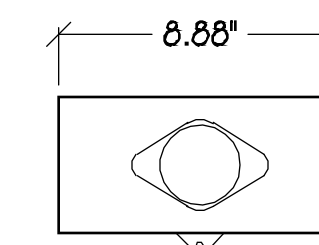
FRONT VIEW

8 MICRO SHROUD CONCEALMENT
 1/2" = 1'

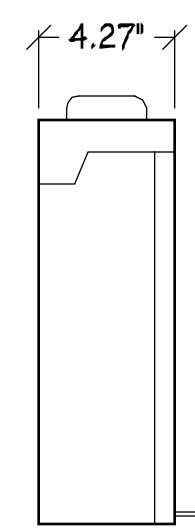


9 WEATHER HEAD
 NTS

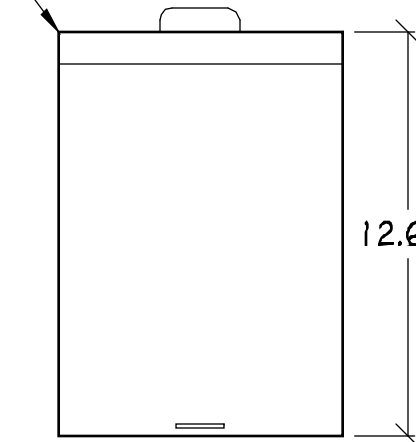
SCHNEIDER ELECTRIC
 QO612L100RB



TOP VIEW

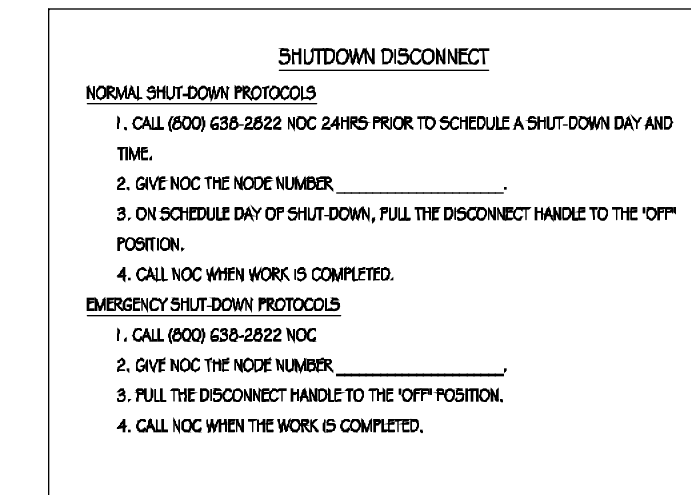
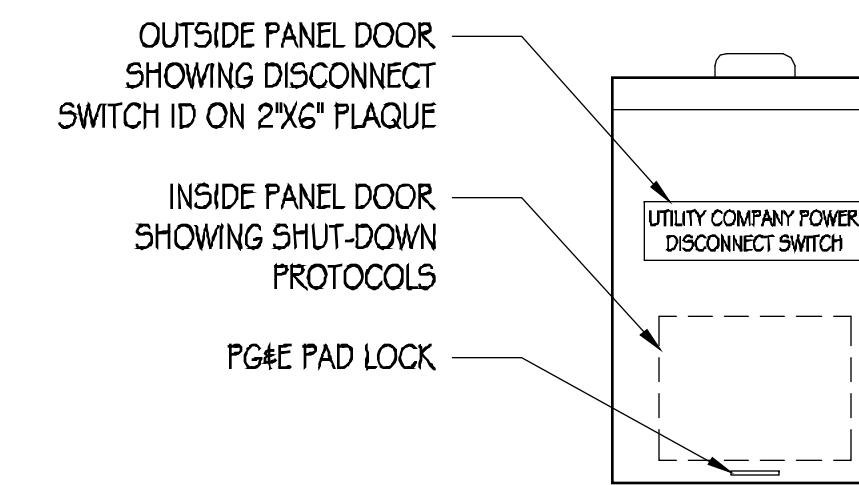


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT
 1" = 6"



11 DISCONNECT SIGNAGE
 3" = 1'

NOTES:
 1. SITE ID WILL BE SWITCH #, SITE # & SITE NAME
 2. SIGN PROVIDED BY GC MOUNTED TO OUTSIDE OF SERVICE DISCONNECT



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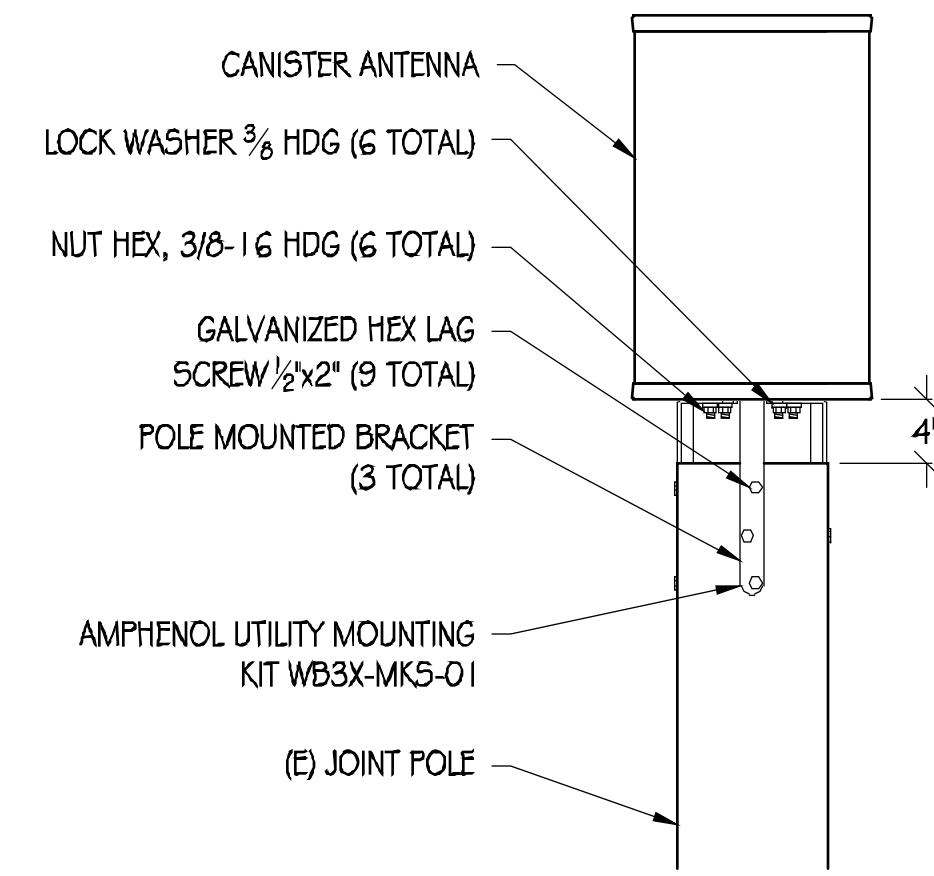
DETAILS

SHEET NUMBER

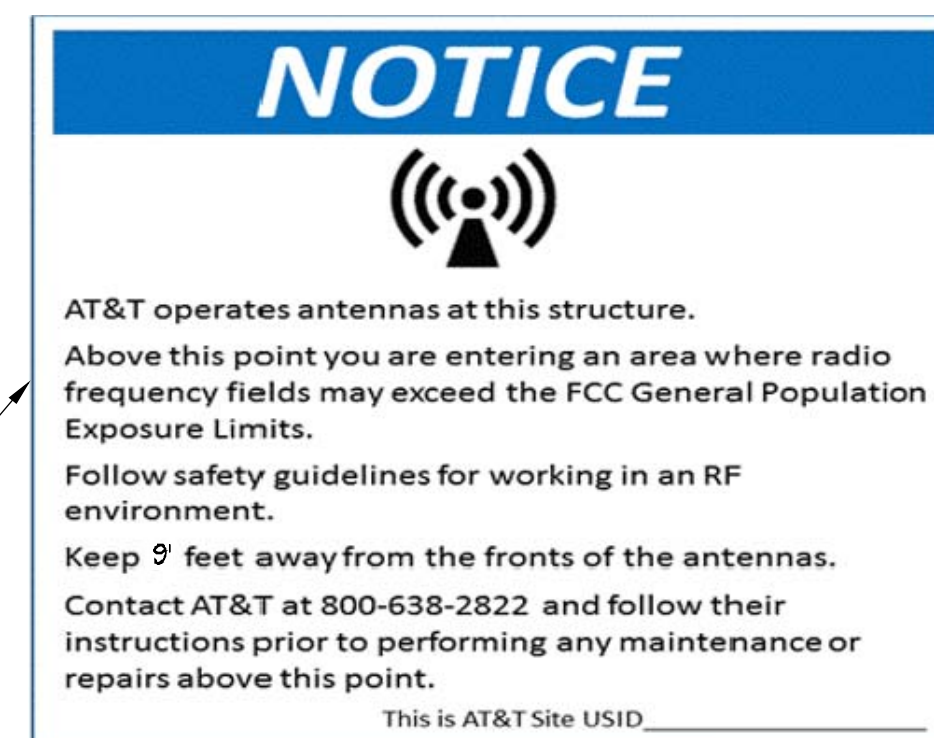
A-5

STRUCTURAL STEEL NOTES:

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS5) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

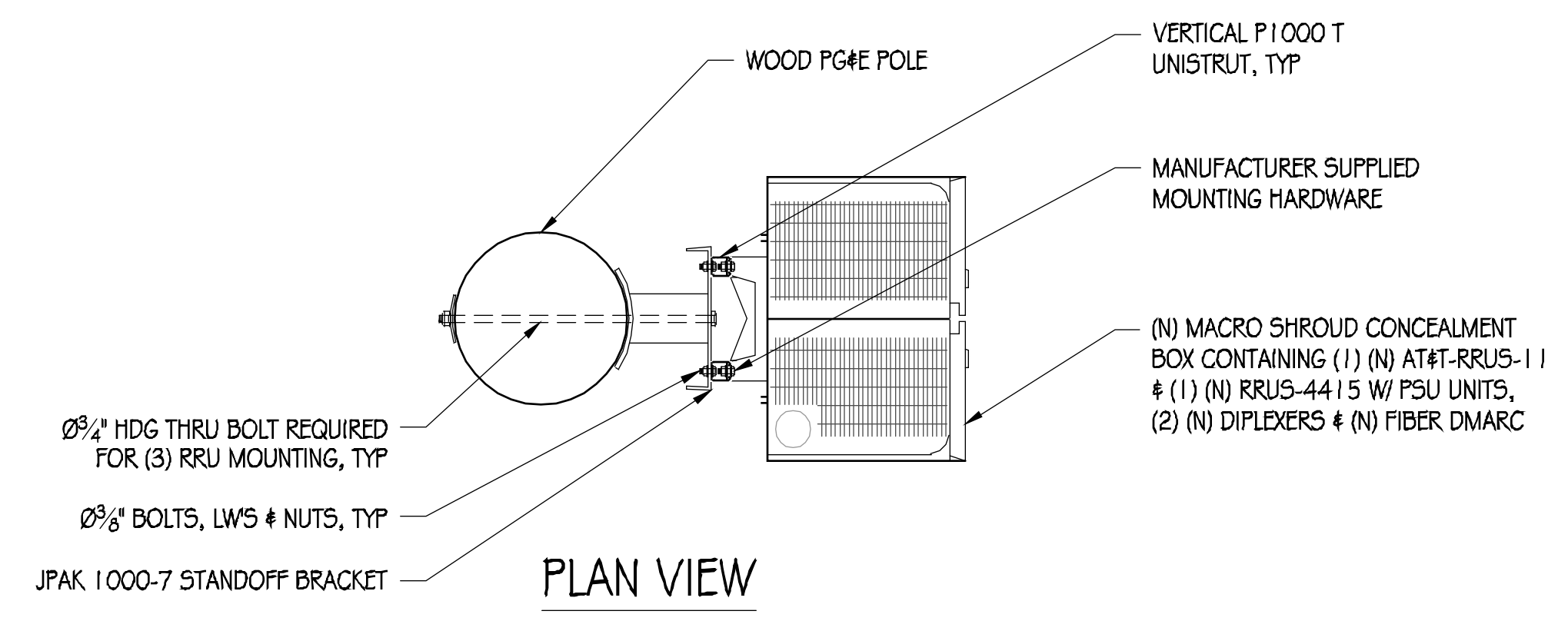


1 POLE-TOP ANTENNA MOUNT DETAIL
1" = 1'

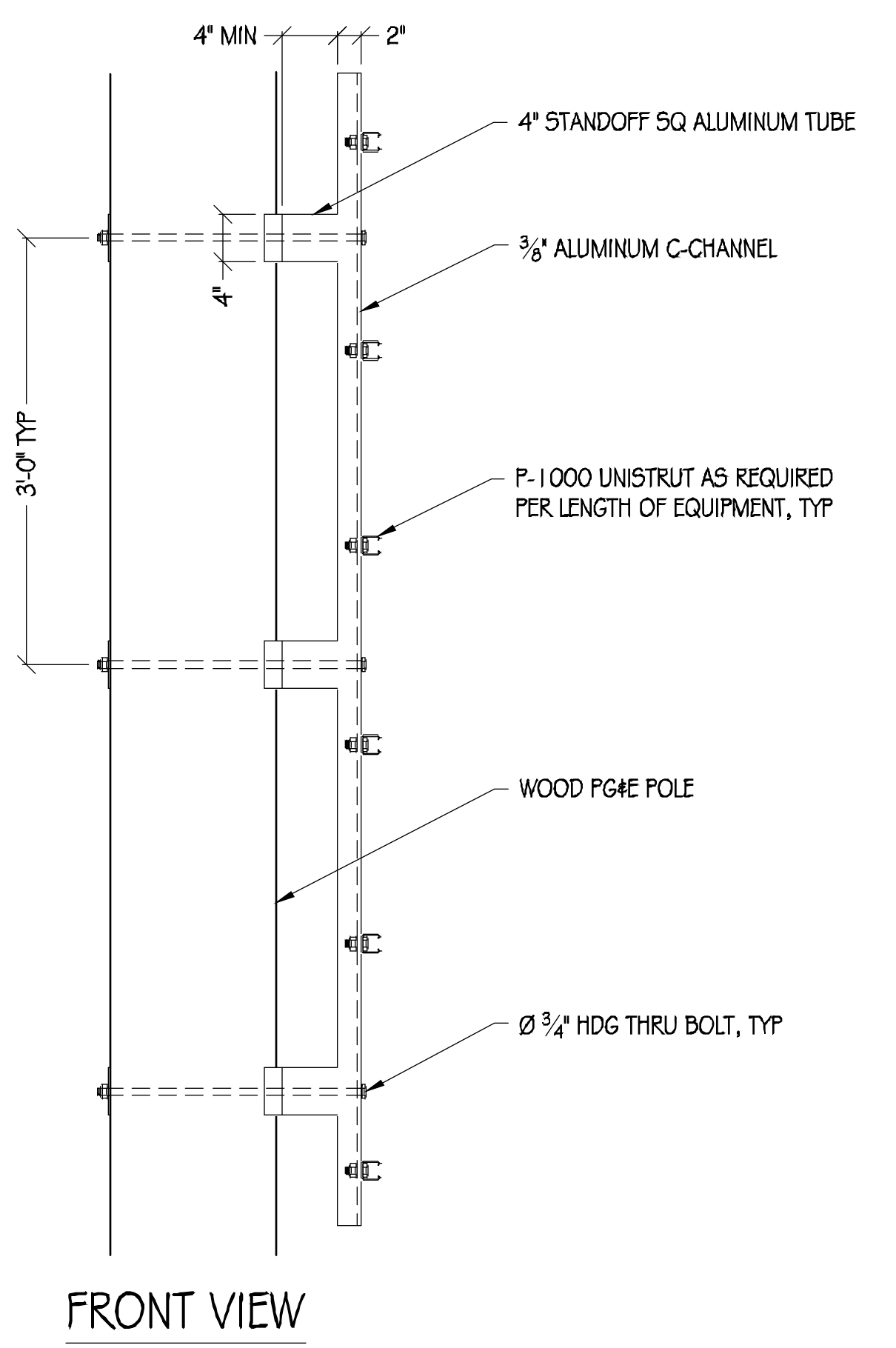
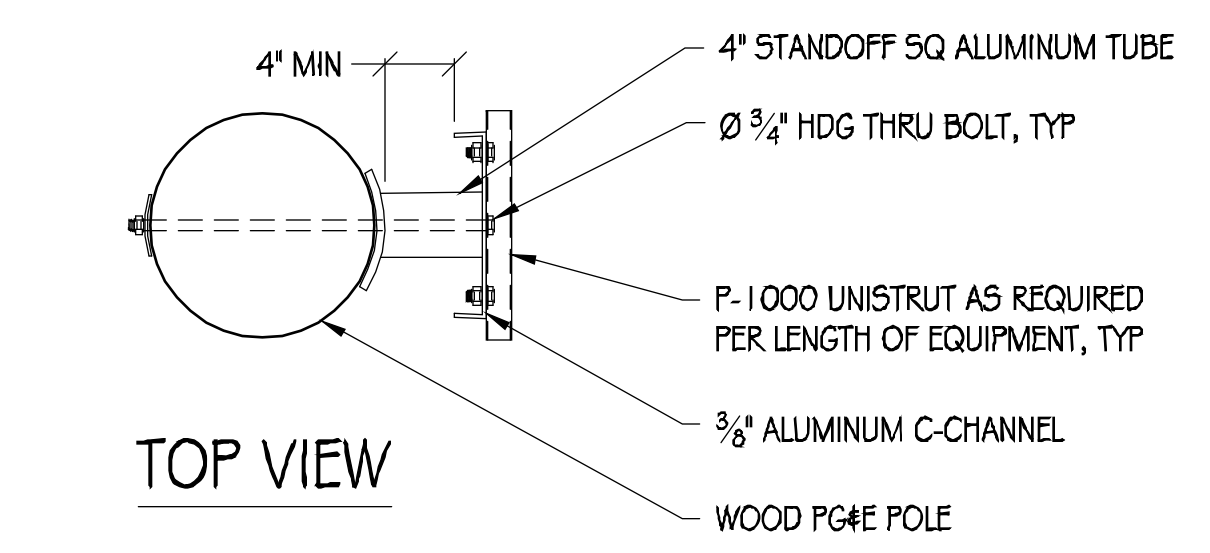


2 NOTICE SIGNAGE
NTS

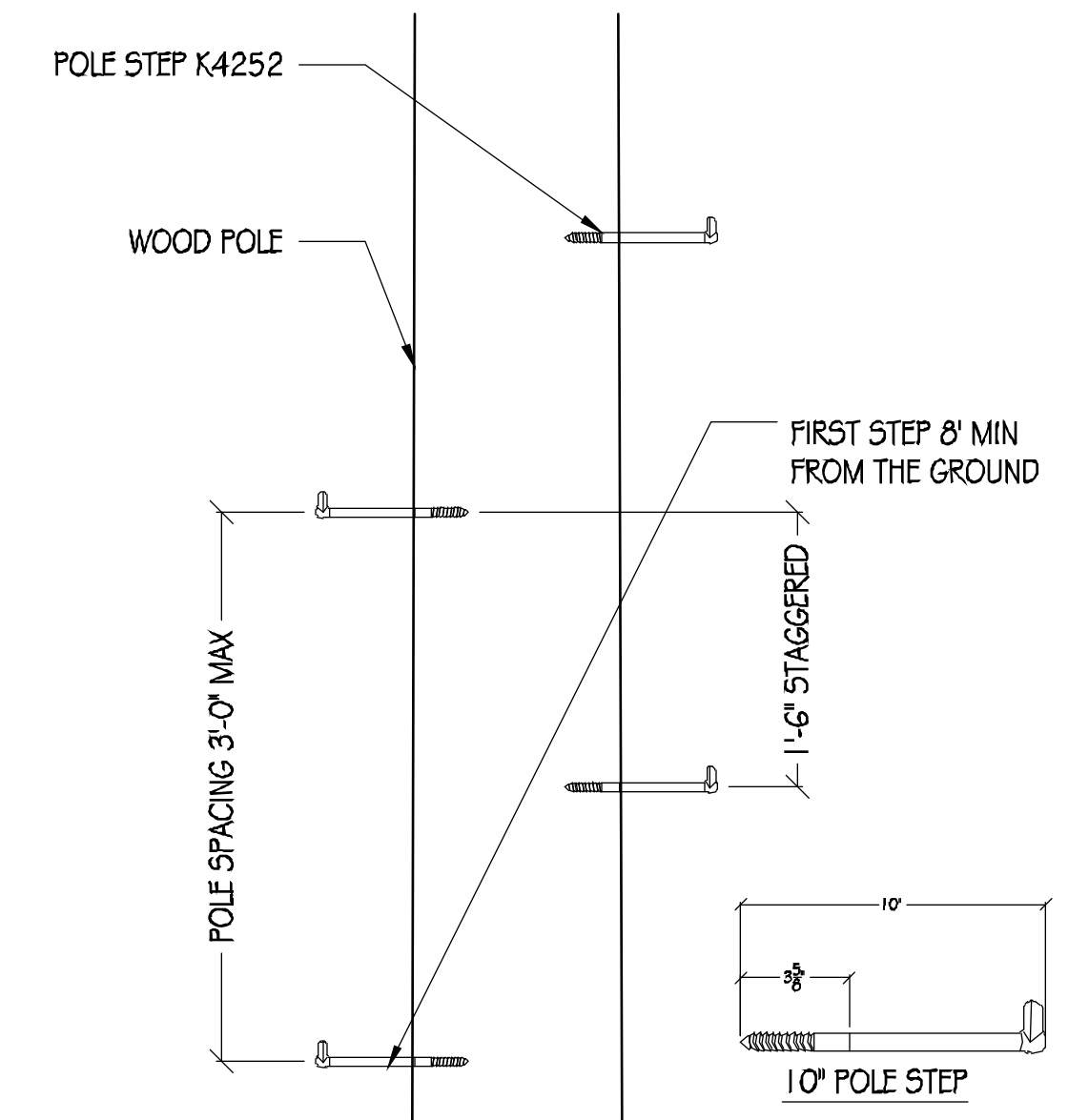
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
 - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA.



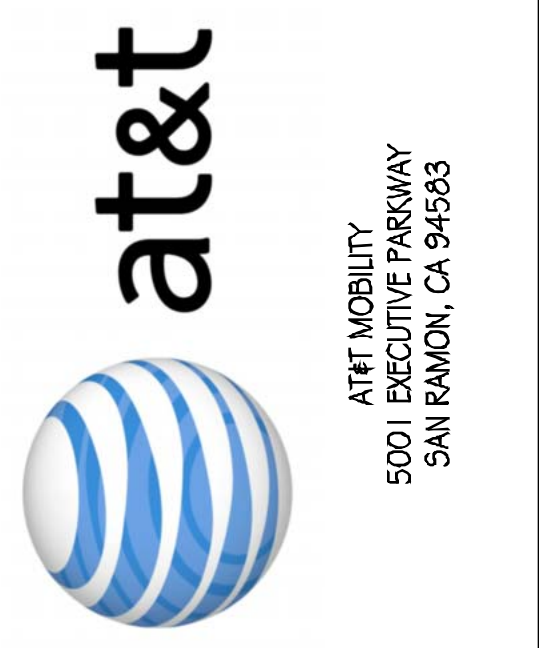
3 RRU MOUNTING DETAIL
1" = 1'



4 JPAK STANDOFF DETAIL
1" = 1'



5 POLE STEP
1" = 1'
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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CRAN_RSFR_LOSAO_003
421 VALENCIA DR
LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 11/13/18 | CD 90% |
| | 07/24/19 | CD 100% |

DRAWN BY: T.J. / R.M.
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 07/24/19

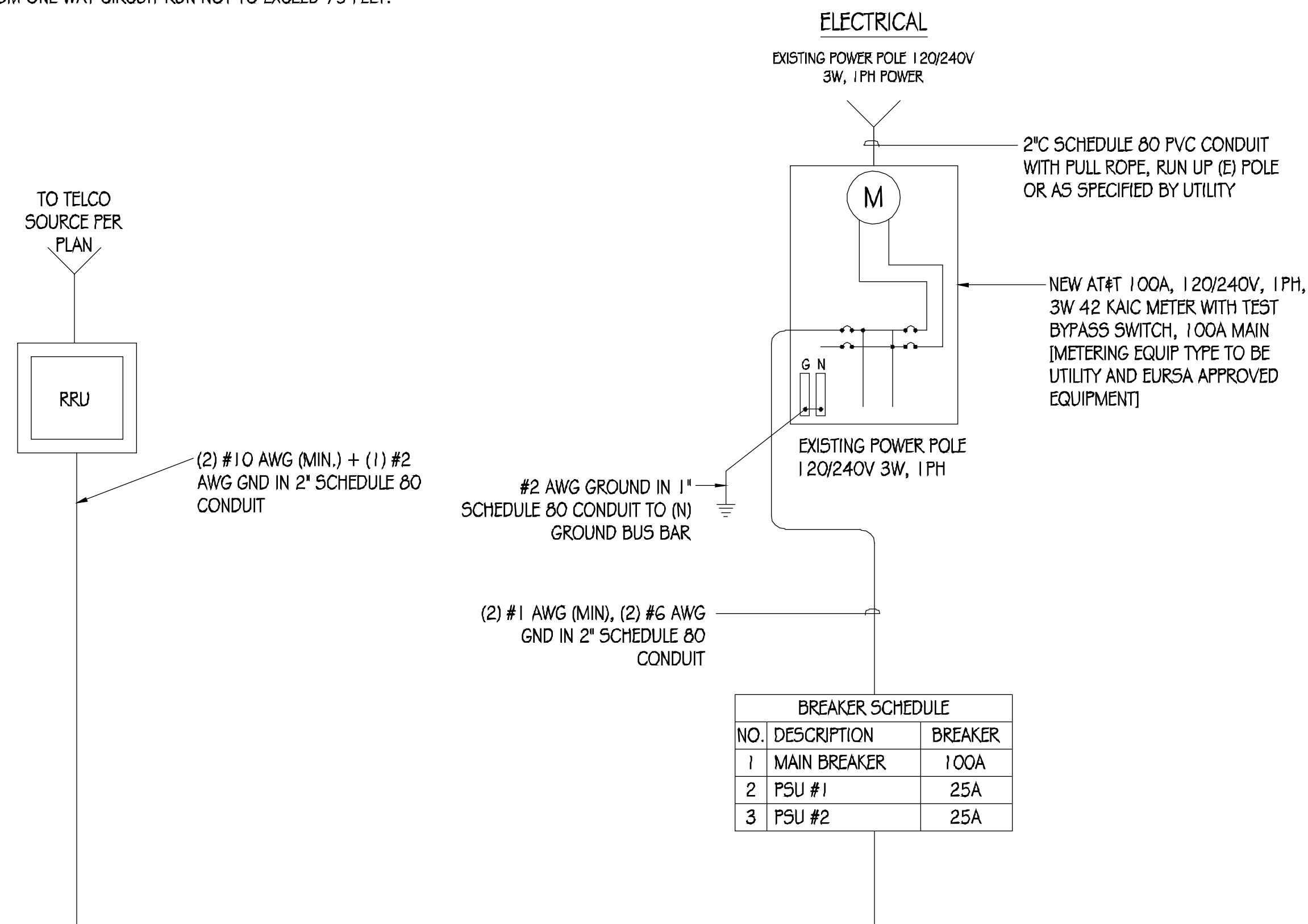
SHEET TITLE:
DETAILS
SHEET NUMBER:
A-6

GENERAL ELECTRICAL NOTES:

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

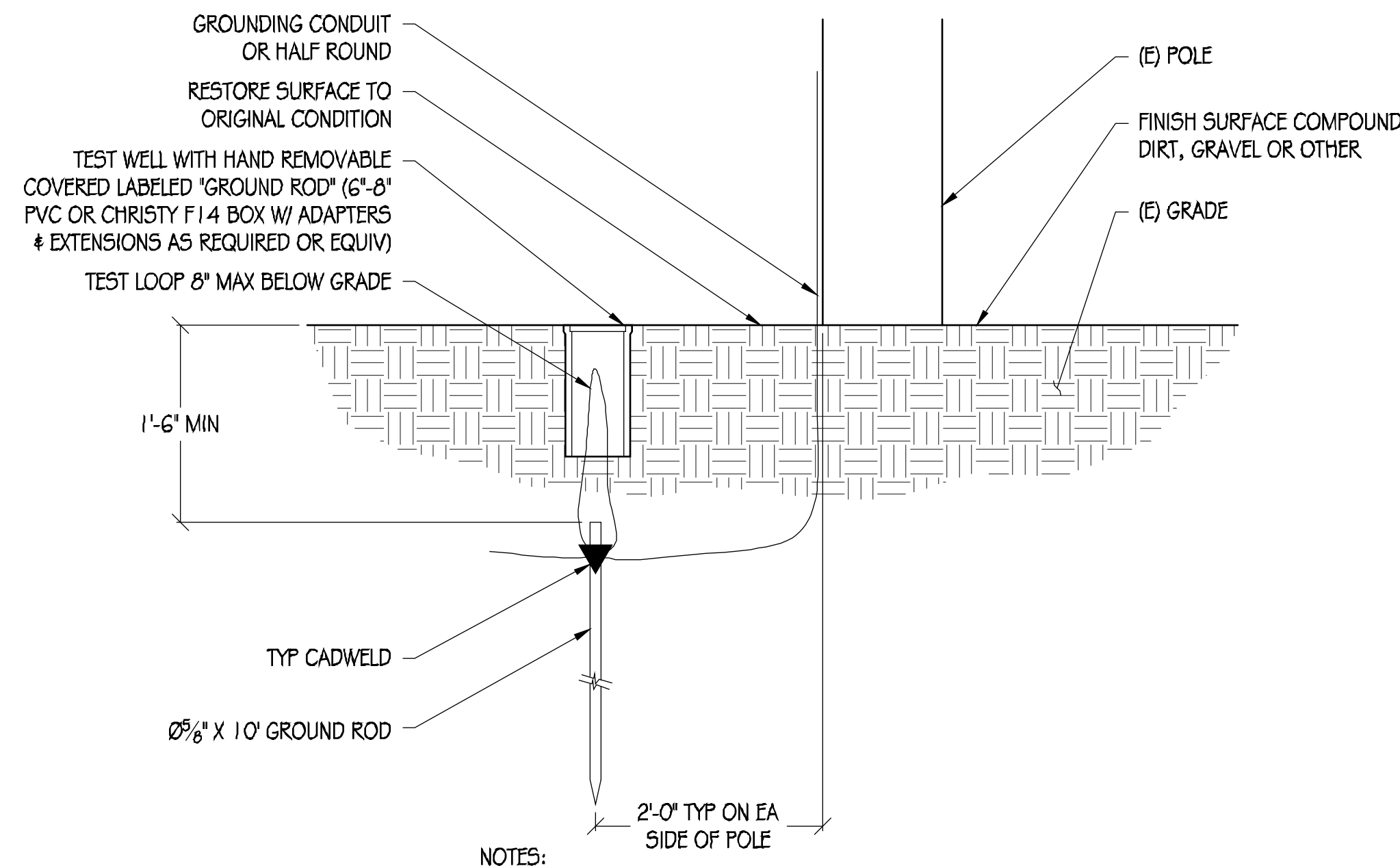
POWER AND TELCO NOTES:

1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASUREMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



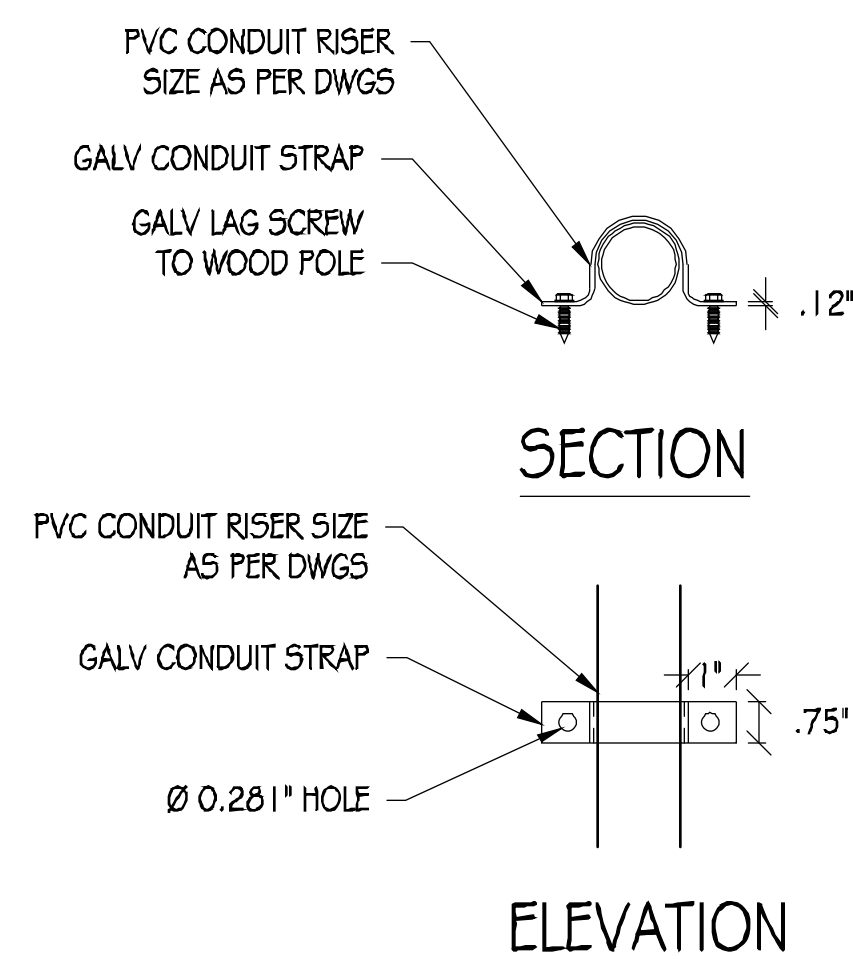
SINGLE-LINE DIAGRAM

| LOAD SCHEDULE | | | | | | | | |
|--------------------|----------|-------------|----------------------|--------------|-------|--------------------|-----|------|
| MAKE/MODEL | QUANTITY | DESCRIPTION | DIMENSIONS | WEIGHT | TX/RX | MAX TRANSMIT POWER | W | HV |
| ERICSSON RRU5-4415 | 1 | RRU5 | 16.5" X 13.4" X 5.9" | 46 LBS | 2T/2R | 4 X 40W | 670 | 0.67 |
| ERICSSON RRU5-11 | 1 | RRU5 | 19.7" X 17.0" X 7.2" | 55 LBS | 2T/2R | 2 X 40W | 520 | 0.52 |
| NEMA 3R ENCLOSURE | 1 | DISCONNECT | 12.7" X 8.9" X 4.3" | 40 LBS (MAX) | N/A | N/A | N/A | N/A |

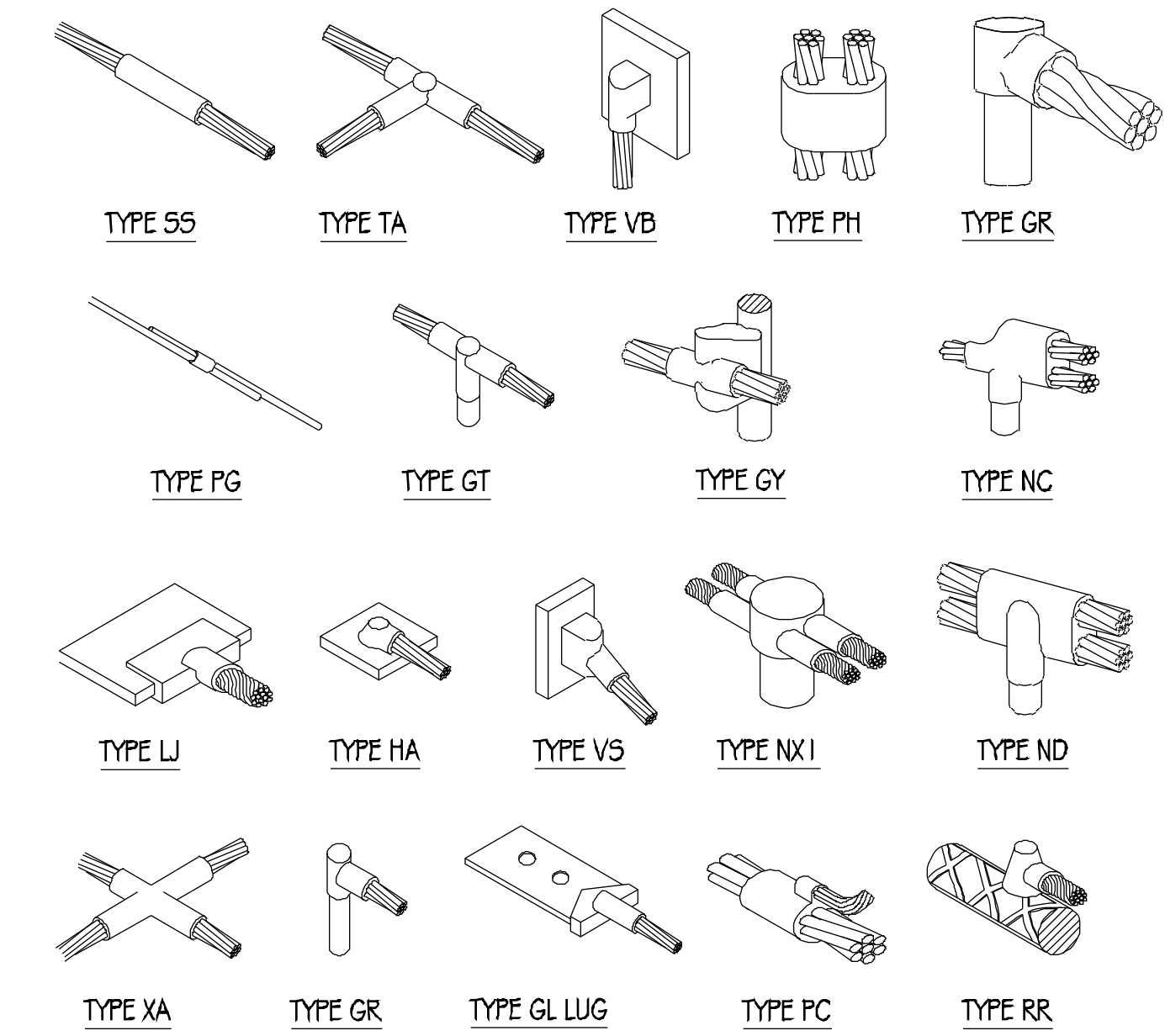


- NOTES:
1. REMOVE & REPLACE SIDEWALK SECTION, RESTORATION TO MEET CITY STANDARD DETAILS
 2. EXPOSED CONCRETE TO HAVE BROOM FINISH

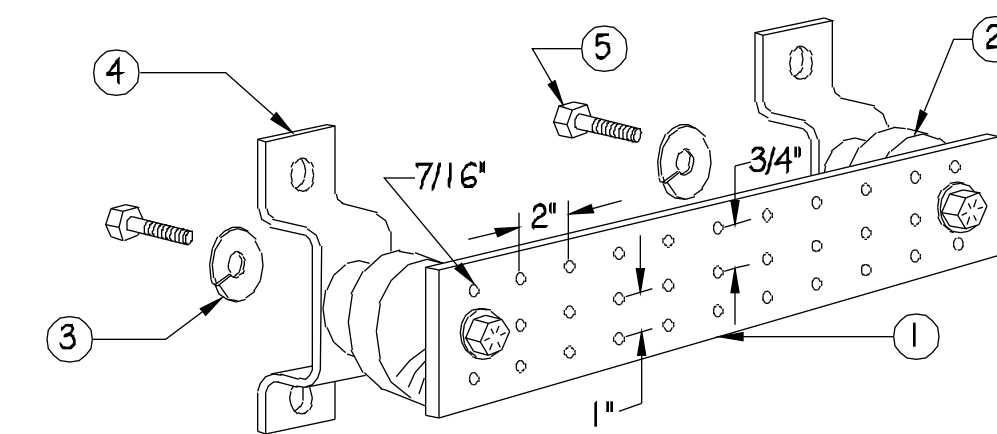
1 POLE GROUNDING DETAIL
NTS



2 CONDUIT RISER DETAIL
NTS



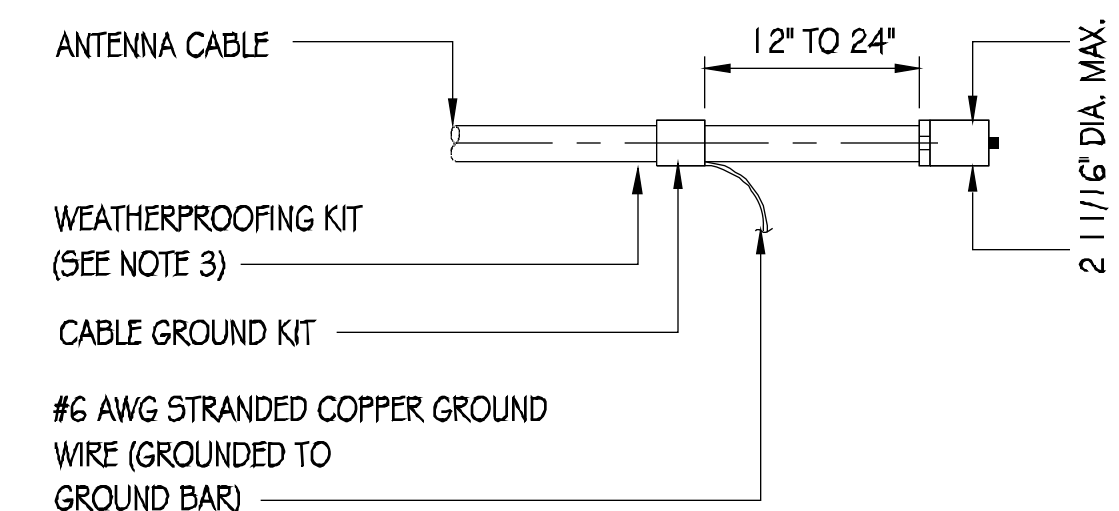
3 EXOTHERMIC WELD DETAILS
NTS



NOTES:

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-6056 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 TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

4 GROUND BAR DETAIL
NTS



NOTES:

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

5 GND KIT DETAIL
NTS



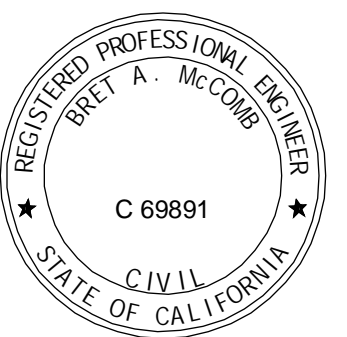
AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN
Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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421 VALENCIA DR
LOS ALTOS, CA 94022

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| | | |
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DRAWN BY: T.J. / R.M.

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

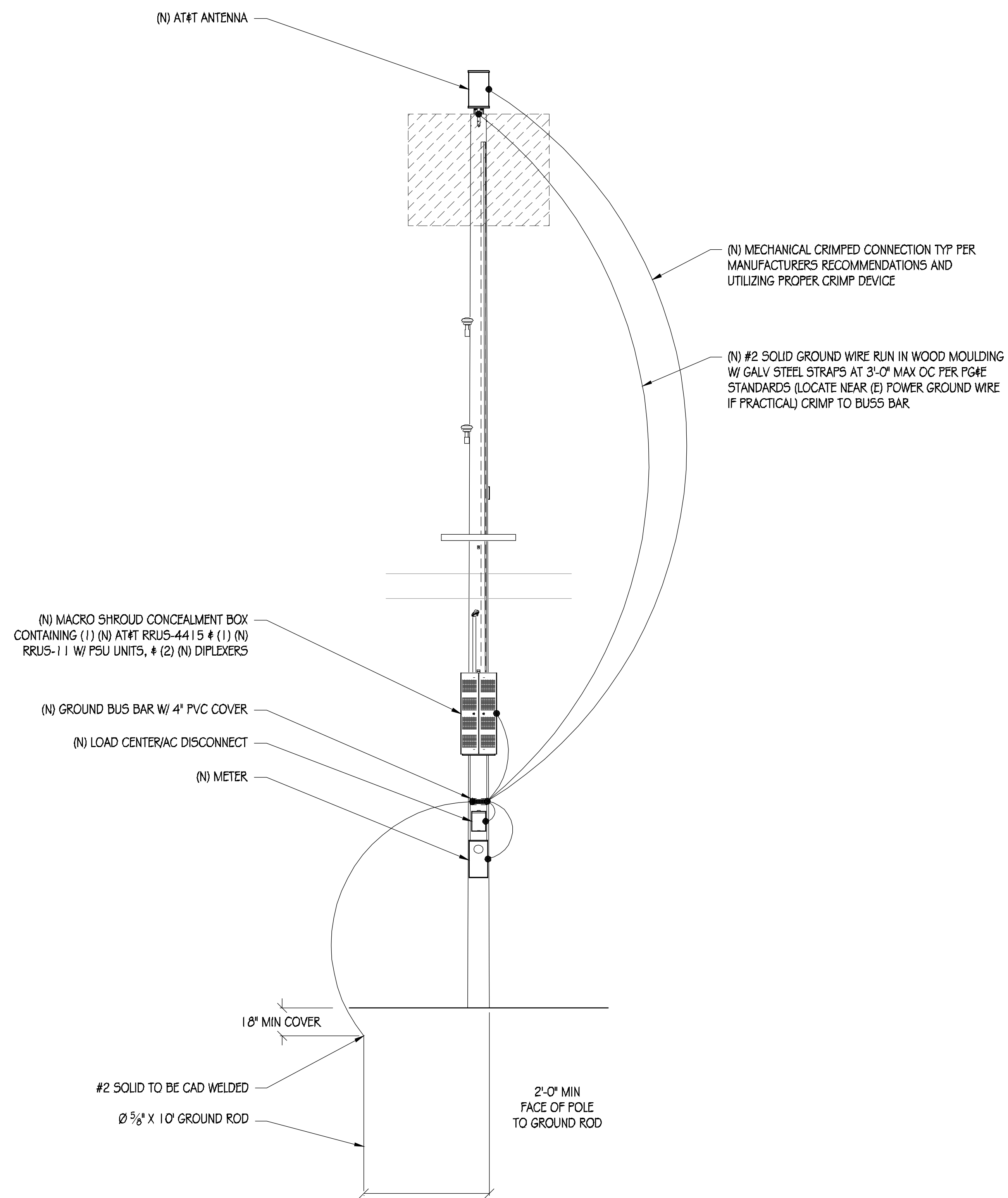
DATE: 07/24/19

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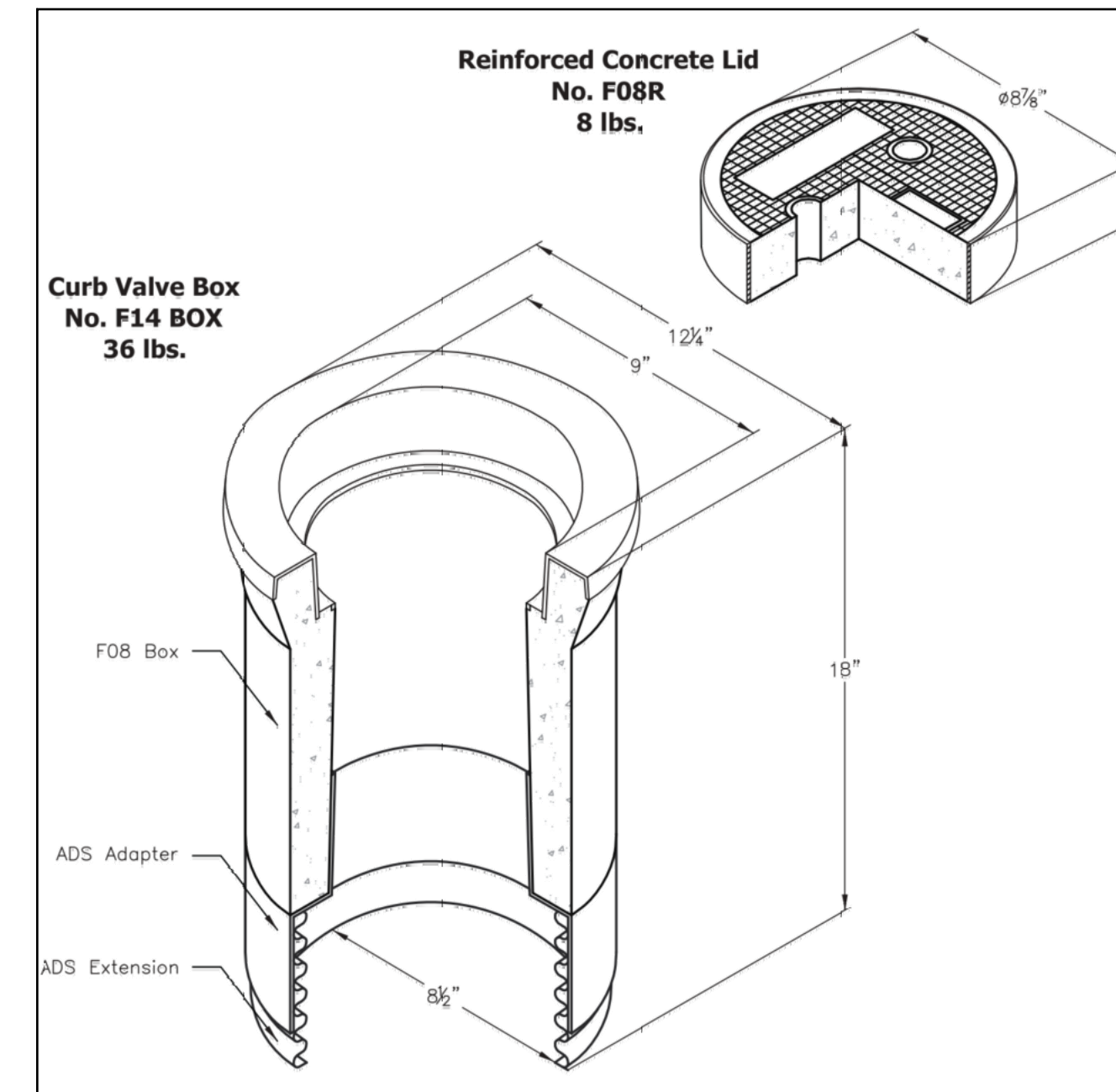
SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER

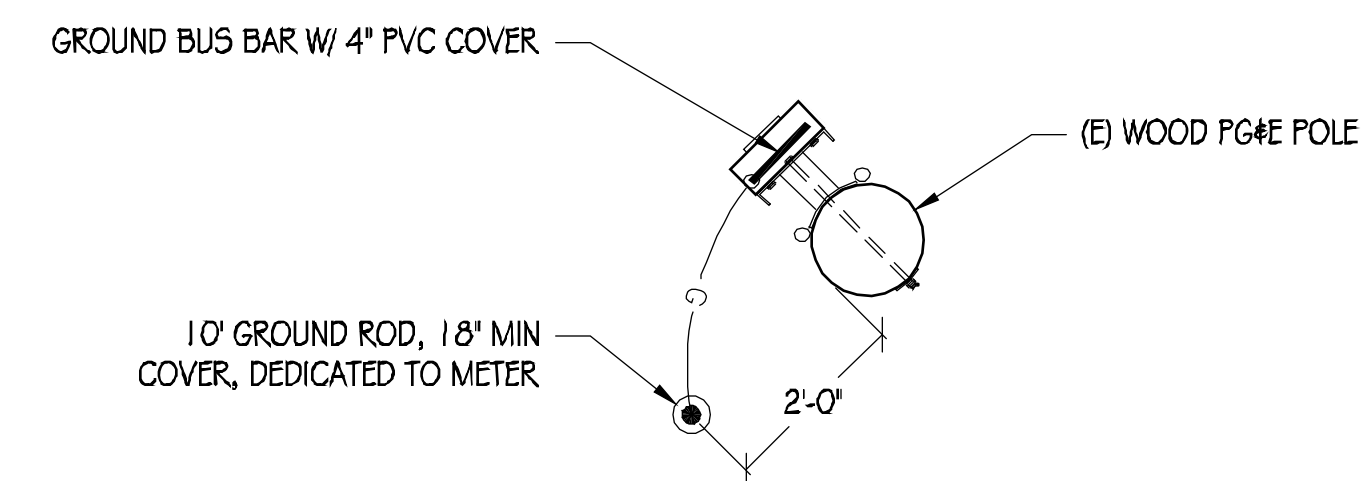
E-1



POLE GROUNDING DIAGRAM
NTS



TEST WELL DETAIL
NTS



GROUNDING PLAN
NTS



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



INFRASTRUCTURE EXPERTS. SMALL CELL LEADERS.
36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdrnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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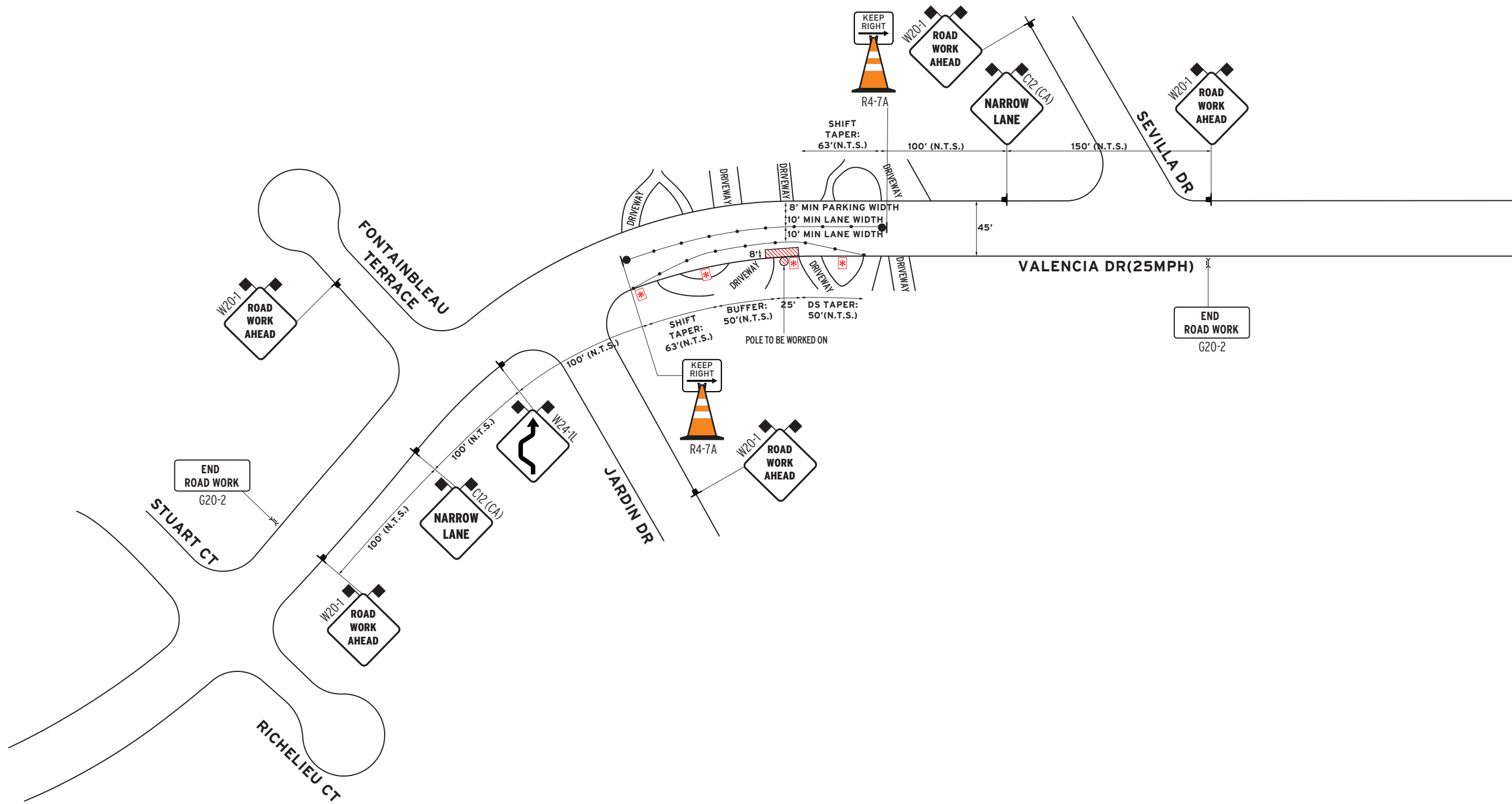
DATE: 07/24/19

SHEET TITLE:

GROUNDING DIAGRAMS

SHEET NUMBER

E-2



- LEGEND:**
- CHANNELIZING DEVICE
 - TRAFFIC CONE W/CLIP ON SIGN
 - ▲ SIGN
 - WORK ZONE
 - DIRECTION OF TRAFFIC
 - ⌵ TYPE 1 BARRICADE
 - ⌵ TYPE 1 BARRICADE W/SIGN
 - ⌵ TYPE 3 BARRICADE
 - ⌵ TYPE 3 BARRICADE W/SIGN
 - ⚠ CERTIFIED FLAGGER
 - ⊗ CRASH BARRELS
 - ▤ MESSAGE BOARD (PCMS)
 - ⚡ FLASHING ARROWBOARD
 - ⊠ TEMP NO PARKING SIGNS
 - ⚡ FLASHING BEACON/BARRICADE LIGHT
 - K-RAIL/WATER FILLED BARRIER
 - PEDESTRIAN BARRICADE

⊠ *POST TEMPORARY NO PARKING SIGN ON TYPE 1 BARRICADE 72 HRS IN ADVANCE.
 NOTE: Please contact B.A.T.S 72 hrs in advance in case if we are to install "TEMPORARY NO PARKING" signs.

ADDITIONAL NOTES:
 1. ASSIST RESIDENTS WITH IN/OUT ACCESS TO DRIVEWAYS ALONG THE CLOSURE WHEN SAFE TO DO SO.

- NOTES**
- Traffic control shall conform with the most current CAMUTCD part 6 and/or Caltrans Standards
 - One lane of traffic in each direction and all high volume turning lanes shall be maintained at all times on all streets at a minimum lane width of 10 feet.
 - Contractor shall notify local authorities once signs are posted.
 - All advanced warning signs shall be equipped with 2 (18" orange flags)
 - Certified Traffic Control Workers shall have Type II vests, work shoes, and hard hats.

- Temporary no parking signs shall be placed a min of 72 hrs prior of work.
- Driveways shall be monitored and maintained at all times during work hours.
- Distance between sign and work area will be determined on speed limit.
- Roadway shall not be opened until safe for public use. All open trenches must be plated or backfilled prior to public usage.
- All Devices shall be removed when no longer required.

MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | |
|------------------------------------|------------------------|----------|----------|
| | A | B | C |
| Urban (Low Speed) - 25 mph or less | 100 ft | 100 ft | 100 ft |
| Urban (Low Speed) + 25 to 40 mph | 250 ft | 250 ft | 250 ft |
| Urban (High Speed) + 40 mph | 350 ft | 350 ft | 350 ft |
| Rural | 500 ft | 500 ft | 500 ft |
| Expressway / Freeway | 1,000 ft | 1,500 ft | 2,640 ft |



SCALE:
NOT TO SCALE

PROJECT LOCATION:
**421 VALENCIA DR
 LOS ALTOS**

DATE REQD: **6-18-19**

DATE COMPLTD: **6-24-19**

REQUEST BY:
**LANCE LEWIS
 SURESITE
 216-593-0400
 484-895-5109
 L.LEWIS@SURE-SITE.COM**

JOB#: **LOSA0_003**

PAGE#: **1/1**

**PHASE 1
 TEMP TRAFFIC CONTROL PLAN**

**AFTER HOURS
 EMERGENCY
 510-299-5666**

44800 Industrial Drive Fremont, CA 94538
 WWW.BATSTRAFFICSOLUTIONS.COM

Drawn By:
 Andie Tonnu
 CSLB# 917034
 Office: 510-657-2543
 Fax: 510-657-2544

B.A.T.S. TRAFFIC SOLUTIONS

CITY OF LOS ALTOS
 DISTRIBUTED ANTENNA SYSTEMS FOR WIRELESS COMMUNICATIONS
 ENCROACHMENT PERMIT REQUIREMENTS

Distributed, repeater, or microcell antenna wireless communication systems and facilities that are regulated by the California Public Utilities Commission as a public utility and determined to be exempt from Los Altos' zoning regulations and use permit application requirements, shall be allowed in the public right-of-way subject to the following Encroachment Permit requirements:

- A. Antenna systems are encouraged along the city's arterial and collector streets. These facilities are allowed on local streets upon verification by a qualified electrical engineer licensed by the state of California representing the FCC licensee that using local streets is necessary to obtain capacity and coverage.
- B. Antenna systems are permitted on joint utility poles at a height not to exceed 10 feet above the height of joint utility pole. Replacement joint utility poles are allowed in accordance with the Municipal Code; however, no net new joint utility poles or monopole antennas are allowed in the public right-of-way.
- C. Antennae shall be designed to be as visually unobtrusive as possible, such as by housing the antenna in a single radome on top of joint utility pole, or by mounting the antenna directly on the joint utility pole in a streamline manner and painted to match the color of the utility pole.
- D. All antenna systems equipment boxes including switches, computers, cooling, back up power, etc., shall be mounted to the utility pole and both the antenna and utility equipment shall be painted to match the color of the existing utility pole.
- E. Only battery back up power systems shall be allowed. No generators shall be allowed.
- F. All new fiber optic and metal cables shall be installed underground unless there are existing overhead cables that can be collocated.
- G. Radiofrequency reports shall be provided for the facility's maximum planned operating power pursuant to the underlying FCC license.
- H. Provide a build-out plan that to the extent known at the time of application identifying by physical address (or if none, by geographic description) all other sites, regardless of whether now constructed, proposed, or anticipated, which are under contract at the time of application, subject to contractual provisions related to confidentiality, that are to be interconnected with this project site. Disclose in technical detail the proposed method of interconnection. Confidential sites may be identified generally.
- I. Disclose by licensee call sign all build-out requirements/obligations which have yet to be met of all wireless providers that the applicant is under contract to build in the City of Los Altos, and the known or estimated date when the remaining build-out requirements will be met.
- J. Identify by name, title, company affiliation, work address, telephone number and extension, and email address the key person or persons most knowledgeable regarding this Project so that the City may contact them with questions regarding the Project:

ENCROACHMENT PERMIT APPLICATION

The applicant is hereby given temporary permission to construct and maintain wireless communication systems at 421 Valencia Drive, as shown on the attached drawings. This permission shall cease at such time as the City Engineer determines that said improvements or the applicant's use thereof is detrimental to the City.

The above permission is given subject to the following conditions:

1. The applicant, their heirs, executors, administrators, successors, and assigns, agree to indemnify and hold harmless the City of Los Altos, its officers, and employees against all claims, liabilities, and losses arising out of construction, existence, and future abandonment/destruction of the subject wireless communication systems and all other associated appurtenances. In addition, the applicant shall be responsible for the repair of all damage to roadways, sidewalks, curb and gutter, sewer mains and laterals, traffic signals and conduits, street lights and conduits, irrigation systems including controllers and conduits, or landscaping resulting from the construction/abandonment of the work proposed to be completed under the conditions of this permit, and shall be responsible for repairing or replacing such damaged areas.
2. Construction and destruction/abandonment of the work may be done on weekdays or Saturdays. Weekday work shall be limited to the hours of 8:00 AM and 6:00 PM., except as noted in the lane closure restrictions described in Item 3. Saturday work shall be performed during the hours of 9:00 AM and 6:00 PM.
3. Traffic control and adequate protection of the public in the vicinity of the work site shall be the responsibility of the applicant. Lane closures shall conform to the requirements established in the State of California Traffic Manual, and the State Standard Plans and Specifications.
4. The applicant shall notify the three closest adjacent property owners to the installation and the three closest property owners directly across the street from the installation at least 10 days prior to commencement of any work. In addition, the applicant shall notify the City Communications Department at (650) 948-8223 of street/alley and lane closures at least 24 hours prior to any work. Furthermore, the contractor shall notify the city's Traffic Engineer at least 48 hours in advance of any excavations within 100 feet of any traffic signals.
5. Contractor shall positively locate by hand digging all traffic signal conduit and irrigation controller conduit adjacent to traffic signals. Any damage repair to signal equipment or irrigation controller equipment shall be completed by a qualified electrical contractor immediately at the contractor's expense, and before proceeding with any other work. Traffic signal detector loop replacement shall be replaced within 48 hours of being damaged. The contractor is encouraged to use the City's signal maintenance contractor, Bear Electric, for any traffic signal repair work at the contractor's expense.
6. Asphalt concrete section for trench backfill shall be a thickness equal to the existing pavement, or 4-inches thick minimum, whichever is greater.

7. Completed Certificates of Insurance naming the City of Los Altos, its elective and appointed boards, officers, agents and employees as additional insured must be completed and submitted to the City by the owner, prior to beginning any work in the public right of way. Insurance shall remain in force during the entire time that the public right-of-way facilities are in use and shall provide the above certificate to the City on an annual basis.
8. The applicant shall comply with the National Pollutant Discharge Elimination System Permit in effect at the time of the application, and shall continue to comply with the Permit as amended by the State Water Board from time to time.
9. The applicant understands that the City continues to pursue future utility undergrounding. In the event a pole or poles used by the applicant are selected for undergrounding or relocation of mounted utilities, the applicant will be required to remove all equipment placed on the pole at his/her expense. The applicant agrees that the City is not obligated to provide alternate space for applicant's use should removal of a facility be directed to accomplish utility undergrounding.
10. The applicant shall maintain the distributed antenna system in good repair at the discretion of the City Engineer.
11. The applicant shall remove the entire distributed antenna system structures within 90 days when such system is abandoned.

I hereby agree to the terms of this Encroachment Permit:

Laura Meiners, Site Dev Agent
Name/Title

Sure Site Consulting
Company

Laura Meiners
Signature

7-30-19
Date

CERTIFIED NOTIFICATION LIST AFFIDAVIT

**CITY OF LOS ALTOS
STATE OF CALIFORNIA
COUNTY OF SANTA CLARA**

I, Robert Castro, hereby certify that the attached list contains the names and addresses of all persons to whom all property is assessed as they appear on the latest available assessment roll of the County within the area described on the attached notice and for a distance of two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, further certify that the attached list of occupants reflect all residential addresses within two hundred fifty feet (250') from the exterior boundaries of the proposed Wireless Service Facility Site.

I, certify under penalty of perjury that the foregoing is true and correct.

Robert Castro

Signature

June 21, 2019

Date the notices were mailed out

Location:

Public right of way near 421 Valencia Lane

37.3890940, -122.1118940

CRAN_RSFR_LOSA0_03

1 170-23-027
BRIAN R & DENISE M IWATA
114 JARDIN DR
LOS ALTOS CA 94022

2 170-23-028
MAGNE T & KARI STANGENES
124 JARDIN DR
LOS ALTOS CA 94022

3 170-23-030
MICHAEL & KELLEY CORLEY
370 VALENCIA DR
LOS ALTOS CA 94022

4 170-47-008
KATHARINE J YEAGER
58 SEVILLA DR
LOS ALTOS CA 94022

5 170-47-009
RISHI SAMPAT
66 SEVILLA DR
LOS ALTOS CA 94022

6 170-47-010
DAVID Y W PARK
74 SEVILLA DR
LOS ALTOS CA 94022

7 170-47-011
GREGORY B & GLORIA M MCCANDLESS
PO BOX 1962
LOS ALTOS CA 94023

7 170-47-011
OCCUPANT
436 VALENCIA DR
LOS ALTOS CA 94022

8 170-47-012
JAY L MARGULIES
426 VALENCIA DR
LOS ALTOS CA 94022

9 170-47-013
CHRISTOPHER J & MARY J KELLY
418 VALENCIA DR
LOS ALTOS CA 94022

10 170-47-014
MICHAEL B & HEATHER S QUIGLEY
412 VALENCIA DR
LOS ALTOS CA 94022

11 170-47-015
CALIFORNIA WATER SERVICE CO
1720 N FIRST ST
SAN JOSE CA 95112

12 170-47-016
ARNOLD A & BARBARA A SATTERLEE
413 VALENCIA DR
LOS ALTOS CA 94022

13 170-47-017
ROBERT J MAYELL
421 VALENCIA DR
LOS ALTOS CA 94022

14 170-47-018
DOUGLAS Y SHUE
427 VALENCIA DR
LOS ALTOS CA 94022

15 170-47-019
GLORIA WAI BIG LAU
10729 SANTA LUCIA RD
CUPERTINO CA 95014

15 170-47-019
OCCUPANT
439 VALENCIA DR
LOS ALTOS CA 94022

16 170-47-020
JEFFREY DAVID ARONSON
451 VALENCIA DR
LOS ALTOS CA 94022

17 170-47-040
DOUGLAS K & SUSAN J ROBERTS
428 PANCHITA WAY
LOS ALTOS CA 94022

18 170-47-041
MALAY & DHAMI DHARTI DESAI
414 PANCHITA WAY
LOS ALTOS CA 94022

19 170-47-042
MICHAEL MILLEY
125 JARDIN DR
LOS ALTOS CA 94022

20 170-47-046
GREGORY J & COURTNEY A HU
40 PARSONS WAY
LOS ALTOS CA 94022

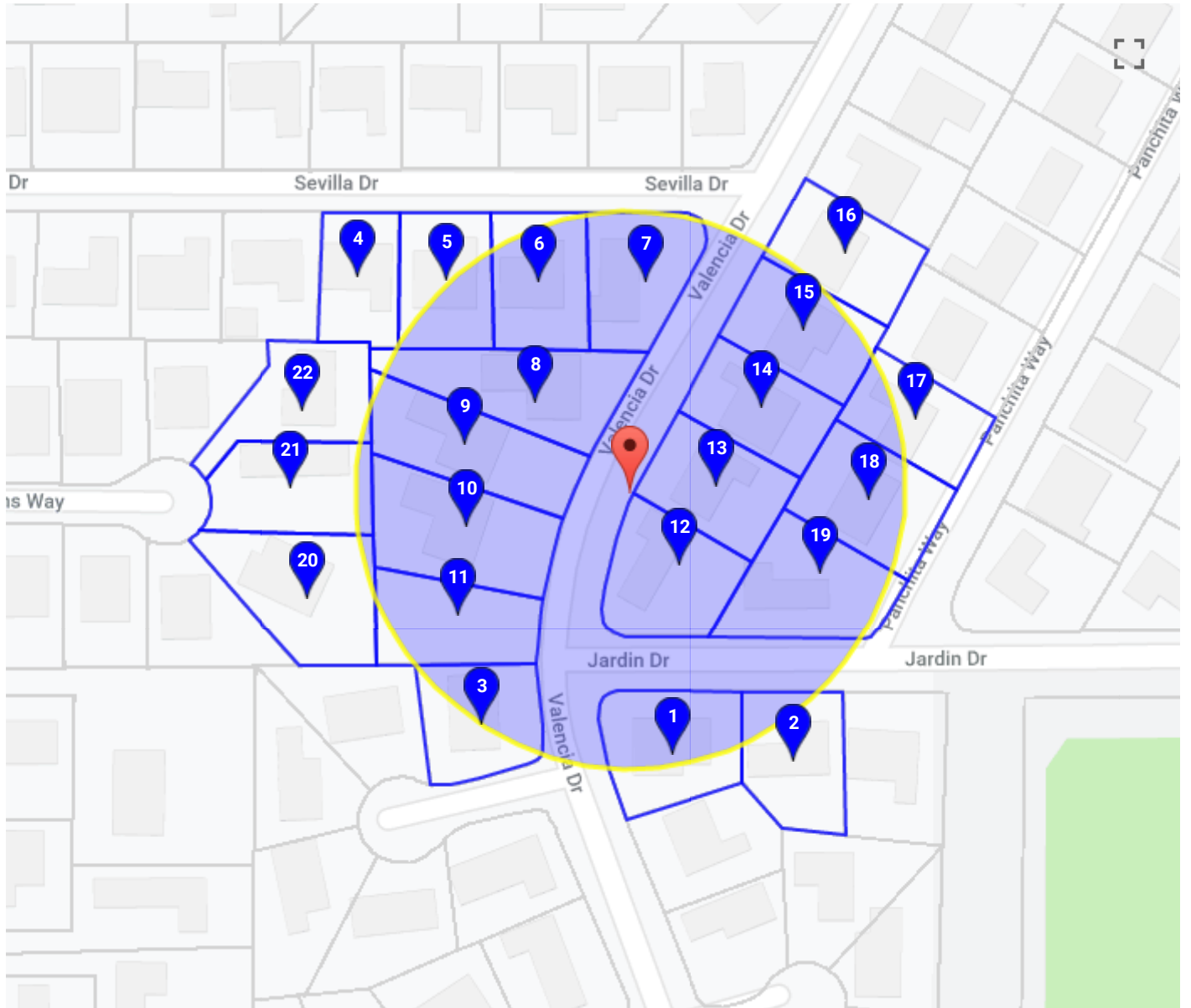
21 170-47-047
SRIDHAR & KRISHNAPPA AMITHA
RANGAPPA
50 PARSONS WAY
LOS ALTOS CA 94022

22 170-47-048
ADEL M & MAGDA A EL SHIMI
45 PARSONS WAY
LOS ALTOS CA 94022

IVAN TOEWS
SURESITE CONSULTING
2033 GATEWAY PL 6TH FLR
SAN JOSE CA 95110

CHRIS ELDRIDGE
ERICSSON
6140 STONERIDGE MALL ROAD SUITE 350
PLEASANTON CA 94588

CHRIS KERR
AT&T MOBILITY
5001 EXECUTIVE PARKWAY 4W750EE
SAN RAMON CA 94568





AT&T is working to improve wireless service in the City of Los Altos!

June 10, 2019

Dear Neighbor,

AT&T Mobility proposes to install a state-of-the-art wireless communication small cell node facility on existing wood utility pole located in the City of Los Altos public right-of-way near 421 VALENCIA DRIVE. The equipment to be initially installed includes one (1) antenna, two (2) radio units, and one (1) emergency power shut off. This equipment is designed to increase capacity in high demand areas and should increase wireless connection reliability for AT&T customers. See attached schematic for more information about the placement and size of equipment currently proposed to be installed. All equipment will be painted to match the pole.

This proposed small cell node is part of a greater network that will provide and enhance current cutting edge and future AT&T wireless voice and data service to the surrounding area, improving wireless capabilities and public safety connectivity. Although experiences with wireless services vary based on specific location and usage times, the wireless service proposed by this facility will help meet existing, fluctuating and future demands.

Map of Pole Location

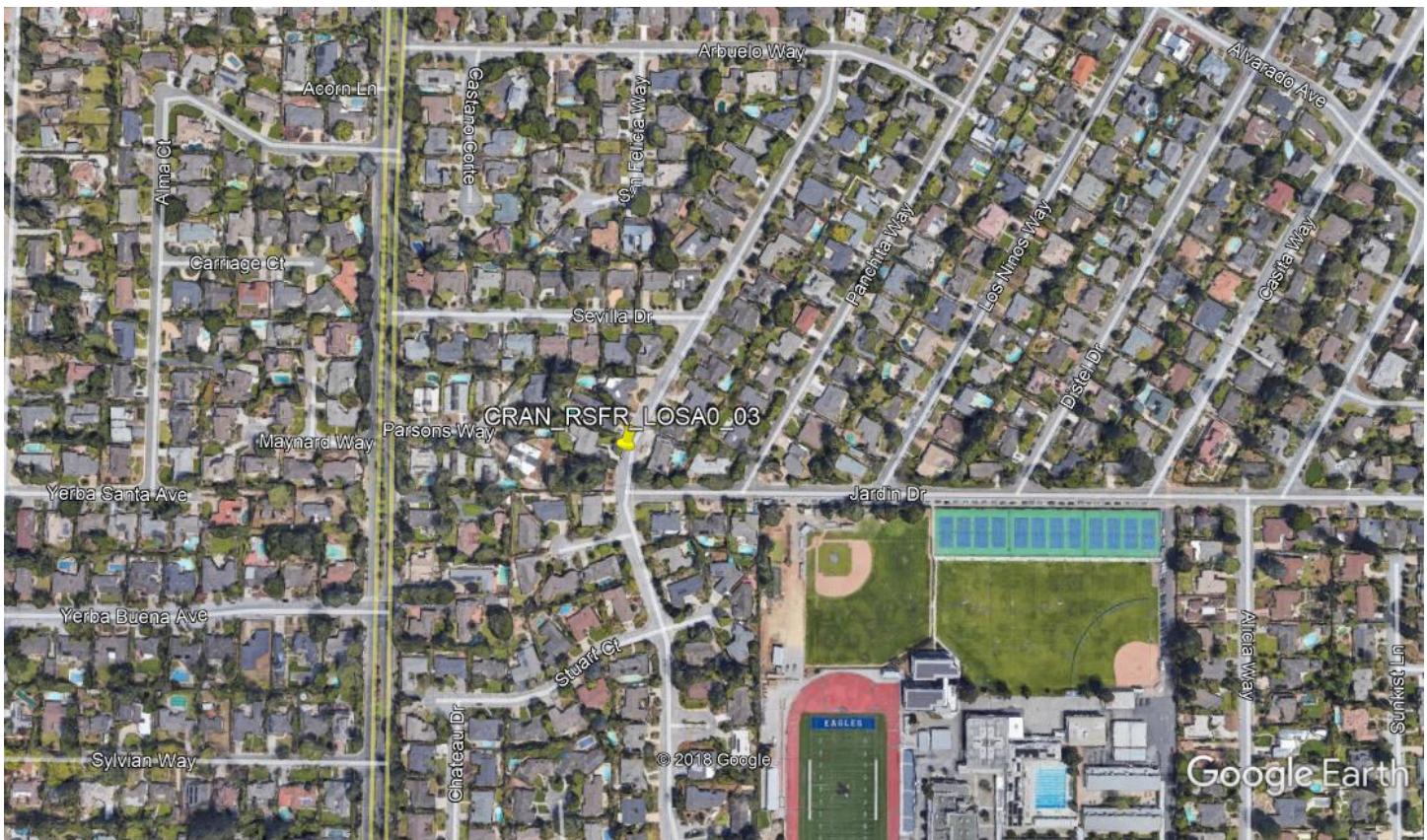




Photo of Existing Pole



Want to learn more?

Please contact AT&T's small cell project voice mailbox at 949-247-8686 or email escsd@sure-site.com should you have any comments or questions about the proposal.

Thank you.

Sincerely,

Angela Kung
AT&T Director - External Affairs



at&t

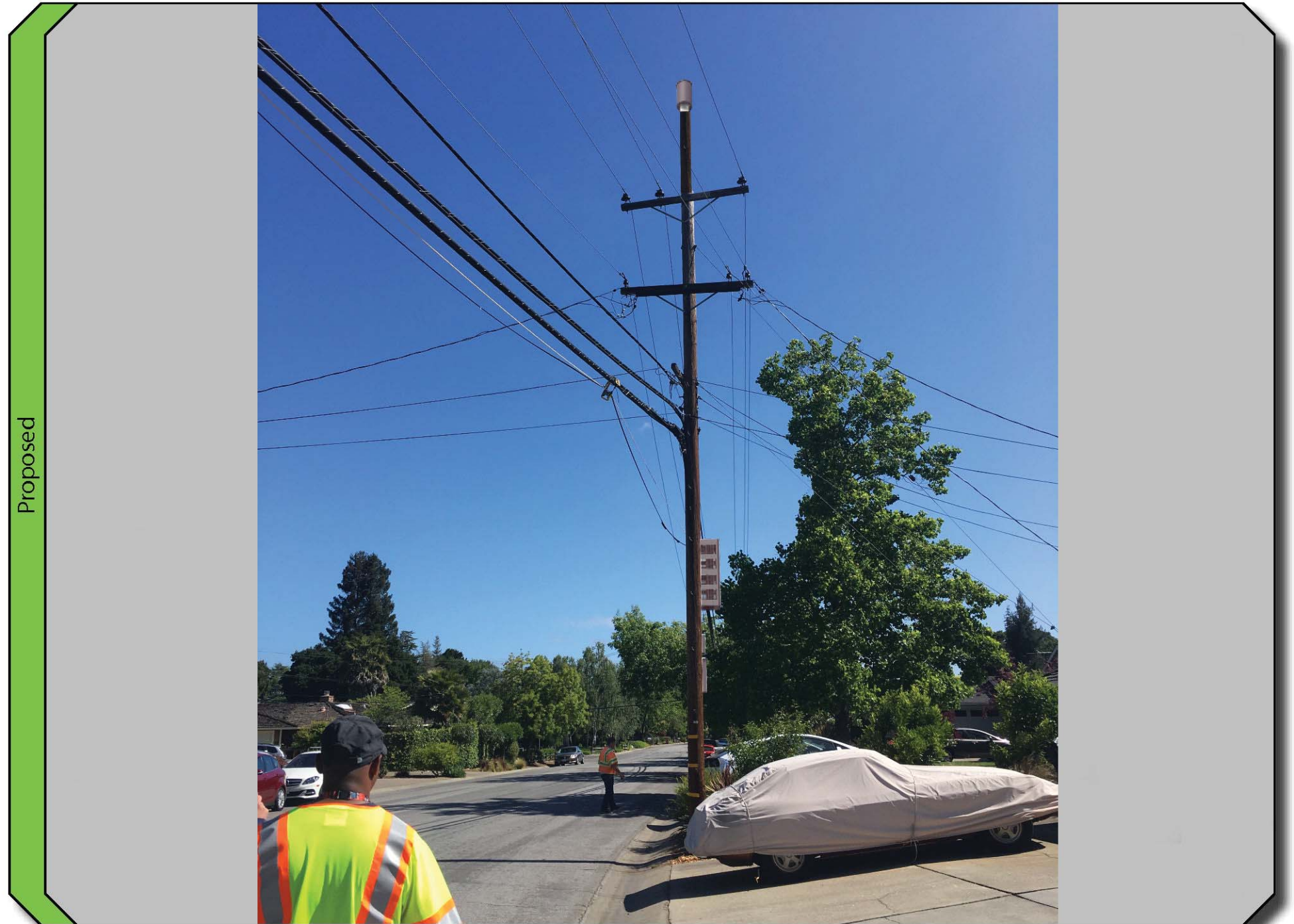
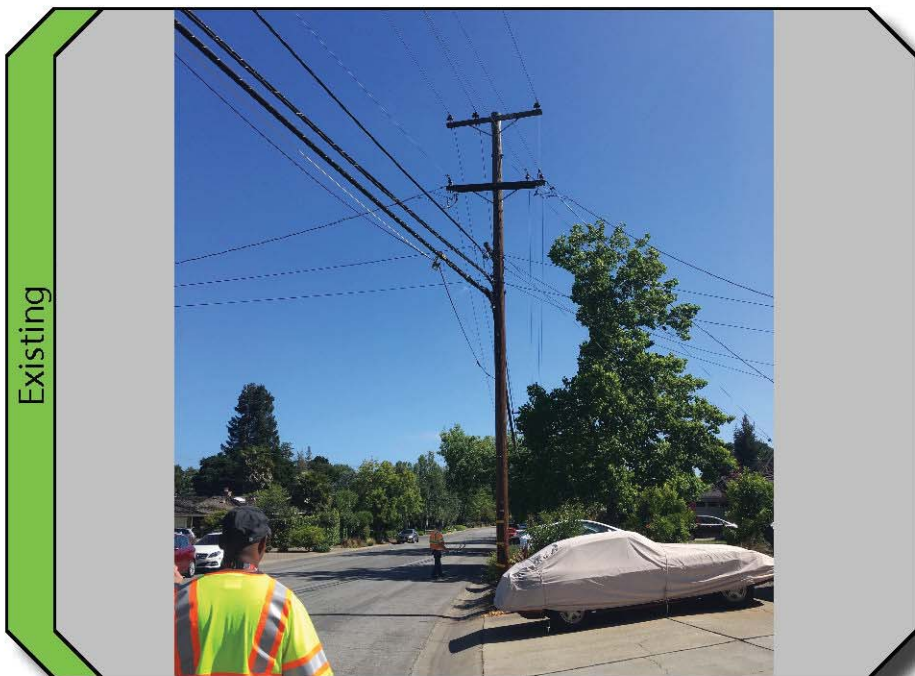
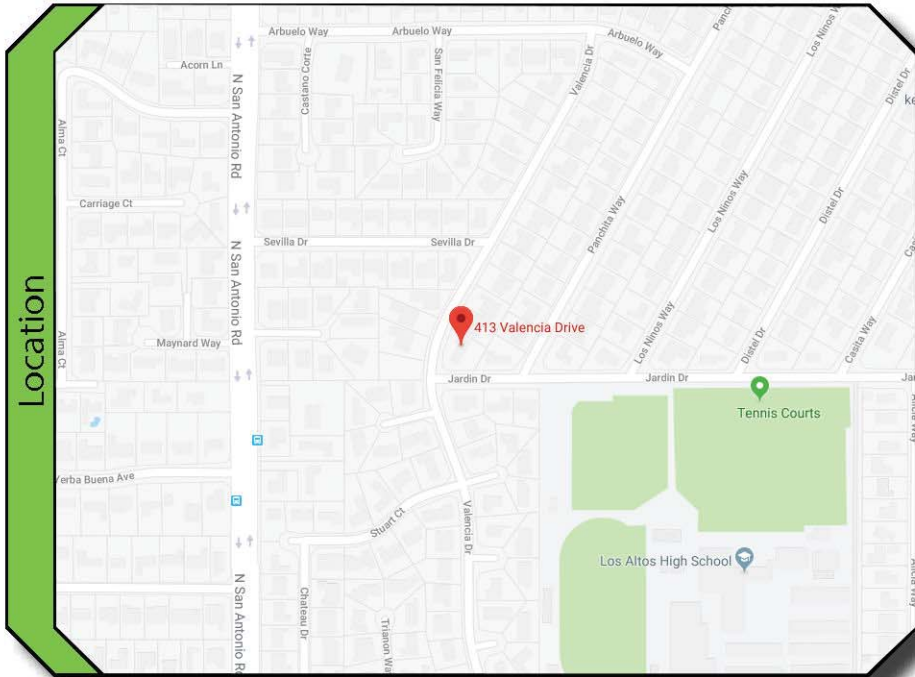
CRAN_RSFR_LOSA0_03

421 Valenca Drive
Los Altos, CA 94022



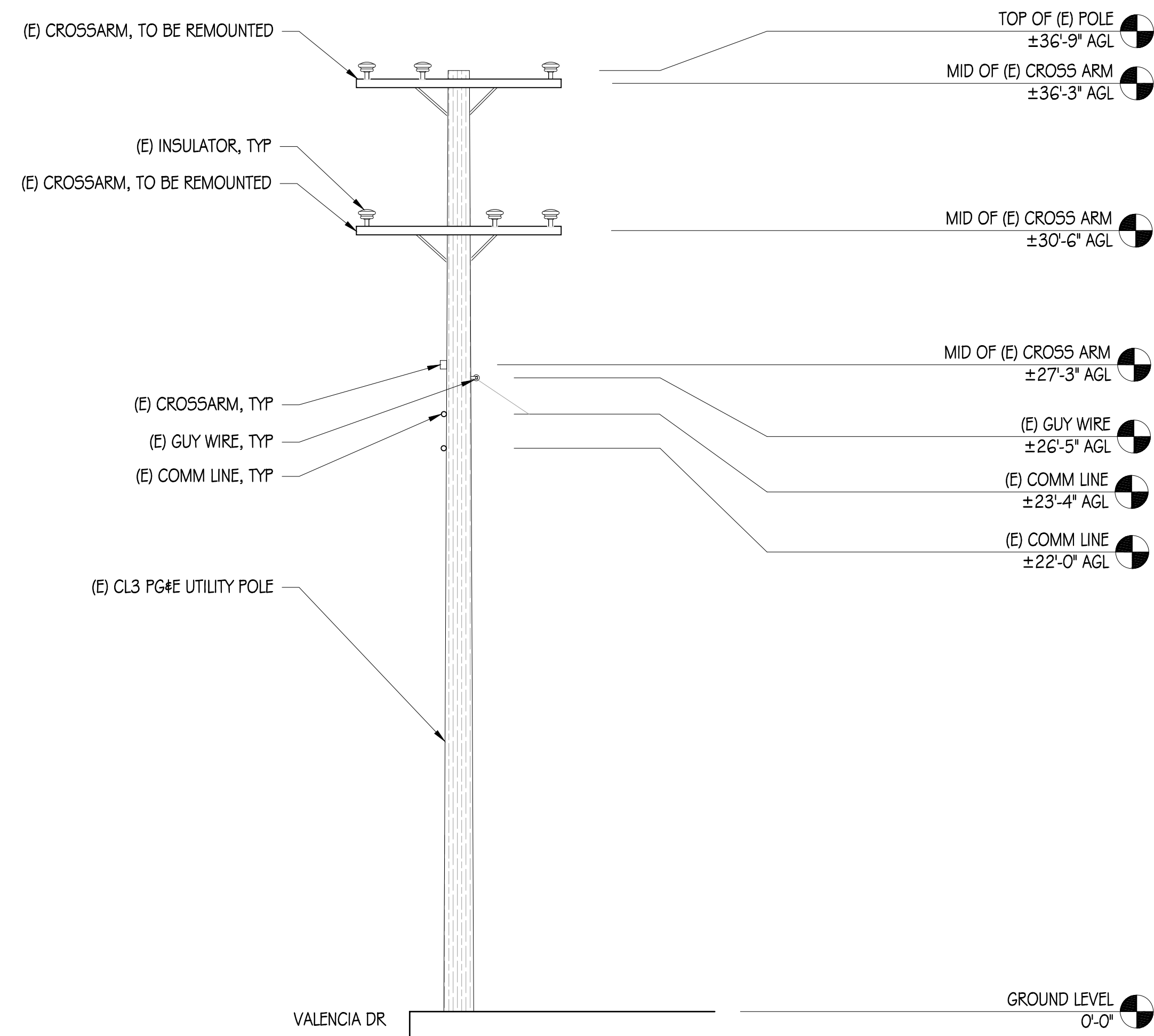
SURESITE
Infrastructure experts. Small cell leaders.

View 1 of 1



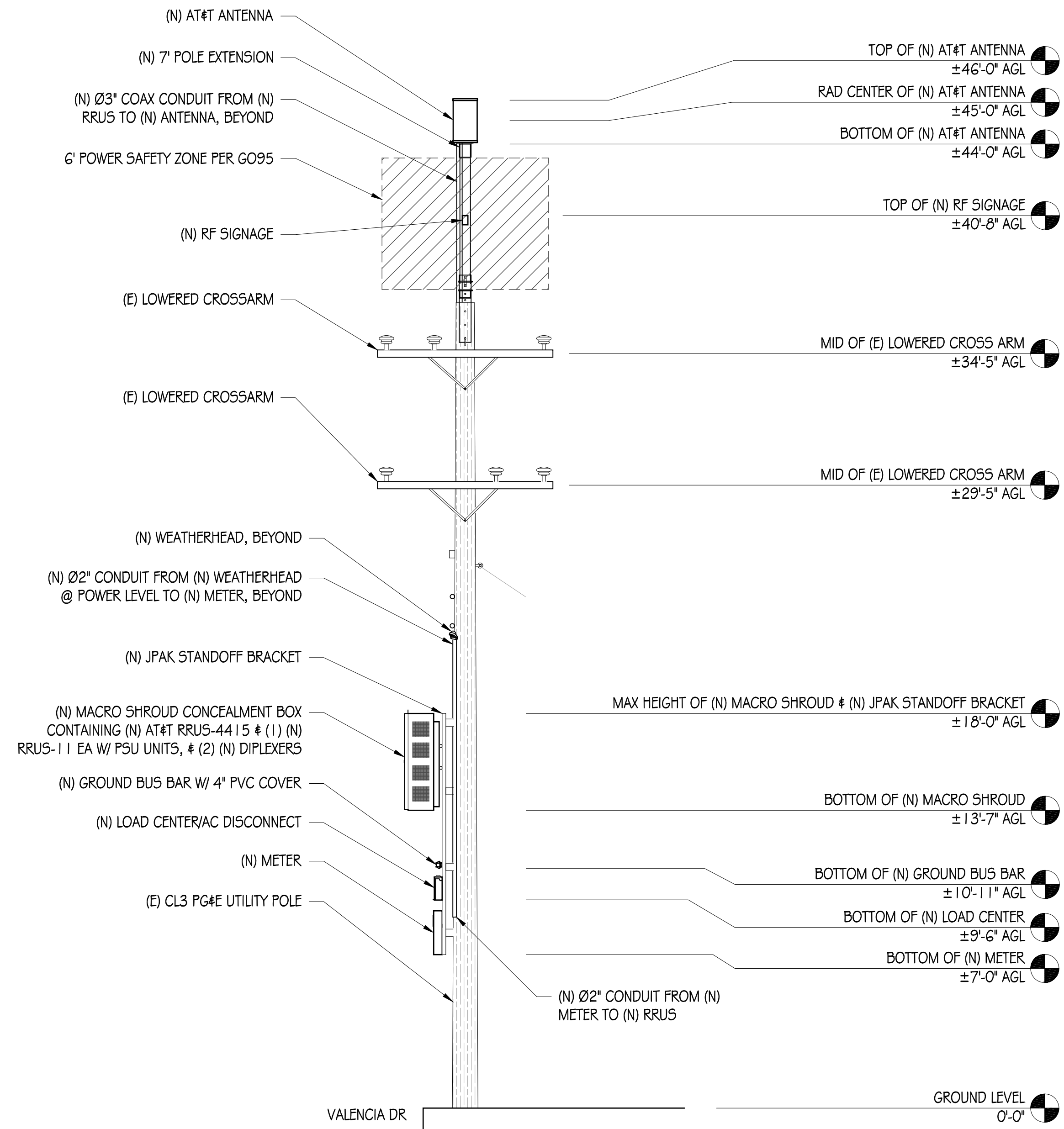
November 27, 2018

Prepared by: LEL



EXISTING SOUTHWEST ELEVATION

1/4" = 1'-0"



NEW SOUTHWEST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY
5001 EXECUTIVE PARKWAY
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210
IRVINE, CA 92614

PRECISION DESIGN & DRAFTING, INC.
Phone: (530) 823-6546 www.pddnd.com
11768 Alwood Rd, Suite 20 Auburn, CA 95603

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CRAN_RSFR_LOSAO_003

ROW ADJCT TO 421 VALENCIA DR
LOS ALTOS, CA 94022

ISSUE STATUS

| △ | DATE | DESCRIPTION |
|---|----------|-------------|
| | 11/13/18 | CD 90% |
| | 05/03/19 | CD 100% |
| | | |
| | | |

DRAWN BY: R. MARTINEZ
CHECKED BY: T. DICARLO
APPROVED BY: B. McCOMB
DATE: 05/03/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-3

AT&T Mobility Radio Frequency Statement Los Altos CA Small Cell Node 3

AT&T has experienced an unprecedented increase in mobile data use on its network since introduction of the iPhone in 2007. AT&T estimates that since introduction of the of the iPhone in 2007, mobile data usage has increased 470,000% on its network. AT&T forecasts its customers' growing demand for mobile data services to continue. The increased volume of data travels to and from customers' wireless devices and AT&T's wireless infrastructure over limited airwaves — radio frequency spectrum that AT&T licenses from the Federal Communications Commission ("FCC").

Spectrum is a finite resource and there are a limited number of airwaves capable and available for commercial use. Wireless carriers license those airwaves from the FCC. To ensure service quality, AT&T must knit together its spectrum assets to address customers' existing usage and forecasted demand for wireless services, and it must use its limited spectrum in an efficient manner.

AT&T uses high-band (i.e., 2300 MHz, 2100 MHz, and 1900 MHz) and low-band (i.e., 850 MHz and 700 MHz) spectrum to provide wireless service. Each spectrum band has different propagation characteristics and signal quality may vary due to noise or interference based on network characteristics at a given location. To address this dynamic environment, AT&T deploys multiple layers of its licensed spectrum and strives to bring its facilities closer to the customer. To address the existing and forecasted demand and to support 5G speeds in the near future, AT&T plans to deploy small cell facilities within public rights-of-way.

The service coverage gap is caused by inadequate infrastructure in the area. AT&T currently has existing sites in the broader geographical area but as Exhibit 1 illustrates, these existing sites do not provide sufficient high-band, in building LTE service in the gap area. To meet its coverage objectives, AT&T needs to construct a new wireless communications facility. In order to provide high-band LTE service coverage in this portion of the city, AT&T needs to place its small cell node along Valencia Drive near Jardin Drive. Denial of this proposed facility would materially inhibit AT&T's ability to provide and improve wireless services in this portion of the city. The proposed small cell facilities will help close gap in coverage and help address increasing data usage, voice, and other wireless services driven by smart phones and tablet usage. This node is part of an effort to fully deploy 4G LTE technology in the area. Specifically, the proposed facility will close this service gap and provide sufficient high-band 4G LTE, in building coverage for AT&T customers in the affected area. 4G LTE is capable of delivering speeds up to 10 times faster than industry – average 3G speeds. LTE technology also offers lower latency, or the processing time it takes to move data through a network, such as how long it takes to start downloading a

webpage or file once you've sent the request. Lower latency helps to improve the quality of personal wireless services. What's more, LTE uses spectrum more efficiently than other technologies, creating more space to carry data traffic and services and to deliver a better overall network experience.

The proposed node on a pole in the public rights-of-way at 421 Valencia Drive is needed to close the high-band LTE service coverage in an area bordered roughly by Arbuelo Way to the north, N San Antonio Road to the west, Stuart Court to the south and Casita Way to the east. This portion of Los Altos is primarily residential neighborhoods with dozens of homes and a High School.

It is important to understand that service problems can and do occur for customers even in locations where the coverage maps on AT&T's "Coverage Viewer" website appear to indicate that coverage is available. As the legend to the Coverage Viewer maps indicates, these maps display approximate coverage. Actual coverage in an area may differ from the website map graphics, and it may be affected by such things as terrain, weather, network changes, foliage, buildings, construction, high-usage periods, customer equipment, and other factors.

It is also important to note that the signal losses, slow data rates, and other service problems can and do occur for customers even at times when certain other customers in the same vicinity may not experience any problems on AT&T's network. These problems can and do occur even when certain customers' wireless phones indicate coverage bars of signal strength on the handset. The bars of signal strength that individual customers can see on their wireless phones are an imprecise and slow-to-update estimate of service quality. In other words, a customer's wireless phone can show coverage bars of signal strength, but that customer will still, at times, be unable to initiate voice calls, complete calls, or download data reliably and without service interruptions due to service quality issues.

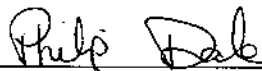
To determine where new equipment needs to be located for the provisioning of reliable service in any area, AT&T's radio frequency engineers rely on far more complex tools and data sources than just signal strength from individual phones. AT&T uses industry standard propagation tools to identify the areas in its network where signal strength is too weak to provide reliable in-building service quality. This information is developed from many sources including terrain and clutter databases that simulate the environment, traffic maps that simulate the density of users in the environment, and propagation models that simulate signal relative to interference in the presence of terrain and clutter variation. AT&T designs and builds its wireless network to ensure customers will receive reliable in-building service quality and data rates sufficient to stream video and complete calls. In-building service is critical as customers increasingly use their mobile phones as their primary communication devices (more than 72% of

American households rely primarily or exclusively on wireless telecommunications) and rely on their mobile phones to do more (E911, video streaming, GPS, web access, text, etc.). In fact, the FCC estimates that 70% of 911 calls are placed by people using wireless phones. And with AT&T's selection by FirstNet as the wireless service provider to build and manage the nationwide first responder wireless network, each new facility will help strengthen first responder communications.

Exhibit 1 is a map of the existing high-band LTE service coverage (without the proposed small cell node). It includes high-band LTE service coverage provided by other existing AT&T sites. The green shaded areas of the map depict acceptable in-building coverage. In-building coverage means customers are able to place or receive a call on the ground floor of a building. The yellow shaded areas depict areas within a signal strength range that provide acceptable in-vehicle service coverage. In these areas, an AT&T customer should be able to successfully place or receive a call within a vehicle. The lavender shading depicts areas within a signal strength range in which a customer might have difficulty receiving a consistently acceptable level of service. The quality of service experienced by any individual customer can differ greatly depending on whether that customer is indoors, outdoors, stationary, or in transit. Any area in yellow or lavender category is considered inadequate service coverage and constitutes a service coverage gap.

Exhibit 2 to this statement is a map that predicts high-band LTE service coverage based on signal strength in the vicinity if the proposed small cell node is constructed as proposed. As shown by this map, constructing the proposed small cell node here closes this significant service coverage gap.

My conclusions are based on my knowledge of the proposed small cell locations and with AT&T's wireless network in the surrounding area. I have a B.Sc. degree in Micro-Electronic System Design from University of Ulster, UK, am a Chartered Engineer, and have worked as an engineering expert in the wireless communications industry for more than 33 years.


Philip B A Dale C Eng
AT&T Mobility Services LLC
Network, Planning & Engineering
RAN Design & RF Engineering
July 19, 2019

LTE 1900 Coverage without Small Cell LOSA0_03



Legend [X]

Coverage_RSRP (dBm)

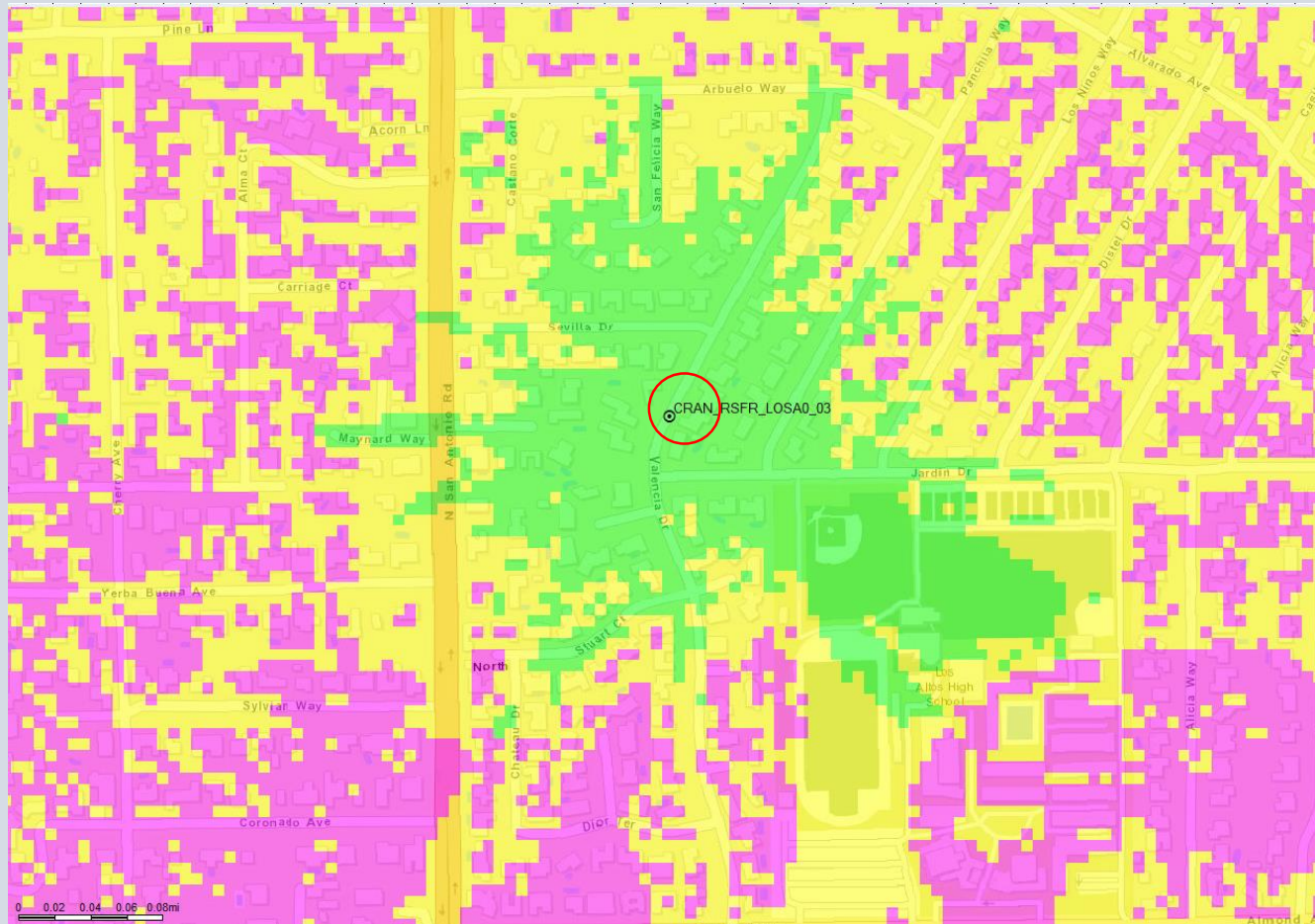
- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

Macro site

Proposed small cell Nodes




LTE 1900 Coverage with Small Cell LOSA0_03




Legend ✕

Coverage_RSRP (dBm)

- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

 Macro site

 Proposed small cell Nodes

