



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:** 33 Pine Ln

**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  
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 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: 33 Pine Ln  
 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

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- 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
<b>0</b> additional days at \$62/day:	\$ -
<b>TOTAL FEES:</b>	<b>\$ 505.00</b>

**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.

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INSURANCE**

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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.



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## Radio Frequency Emissions Compliance Report For AT&T Mobility

<b>Site Name:</b> CRAN_RSFR_LOSA0_04	<b>Site Structure Type:</b> Utility Pole
<b>Address:</b> 33 Pine Lane Los Altos, California	<b>Latitude:</b> 37.39226
<b>Report Date:</b> October 26, 2018	<b>Longitude:</b> -122.11507
	<b>Project:</b> New Build

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### General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN\_RSFR\_LOSA0\_04 site located at 33 Pine Lane, 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 <sup>2</sup> )	Averaging Time (minutes)	Power Density (mW/cm <sup>2</sup> )	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 35.8-foot Utility Pole with a centerline 44.1 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 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 0.4450% 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 0.5695% 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 39 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



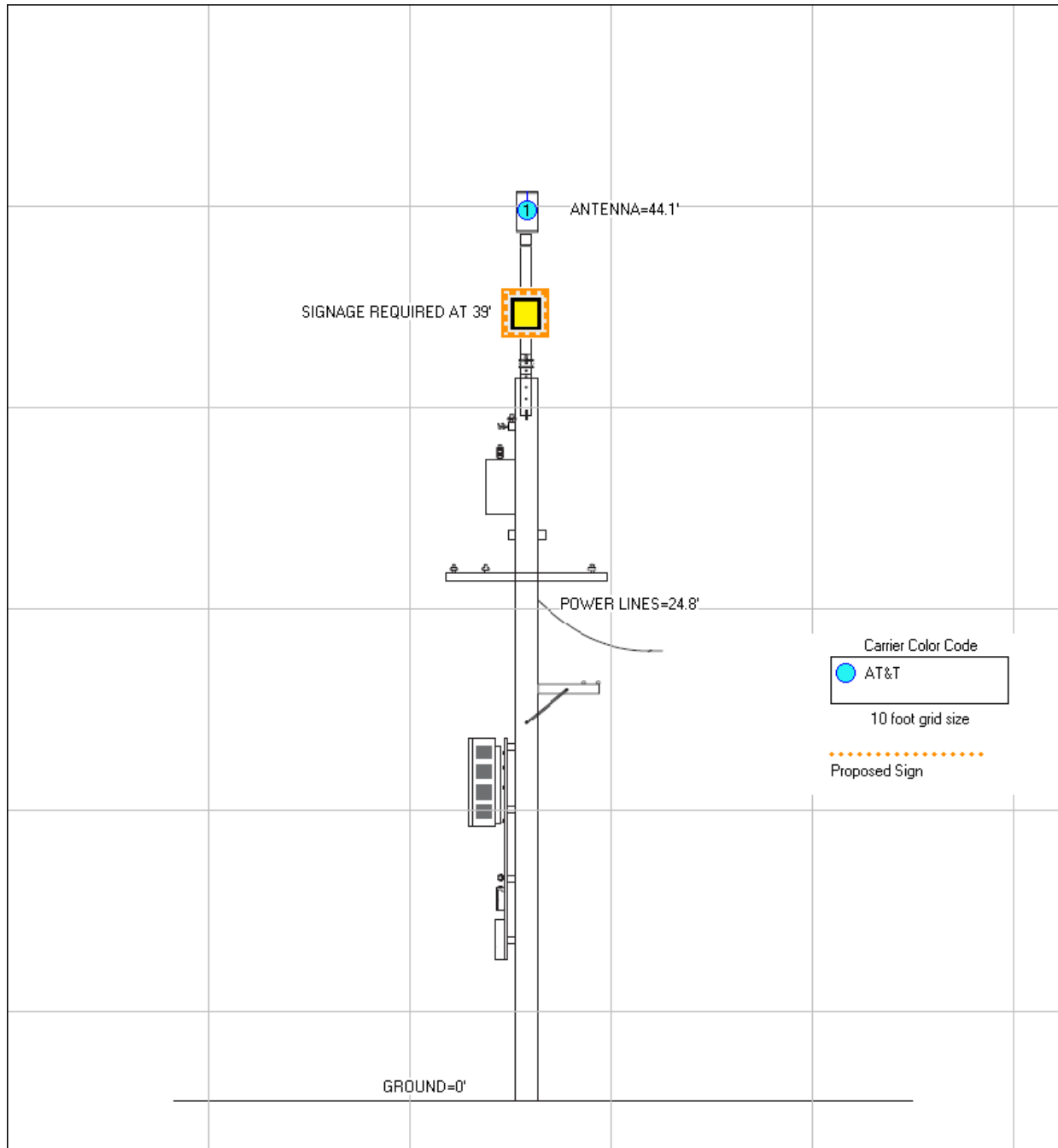


Figure 2: Mitigation Recommendations

 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 33 Pine Lane, 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

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October 31, 2018

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

**Subj: CRAN\_RSFR\_LOSA0\_004**

We have analyzed the wood pole at ROW adjacent to 33 Pine Lane, Los Altos, CA, 94022 (37.392256, -122.115053) 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 57.2% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

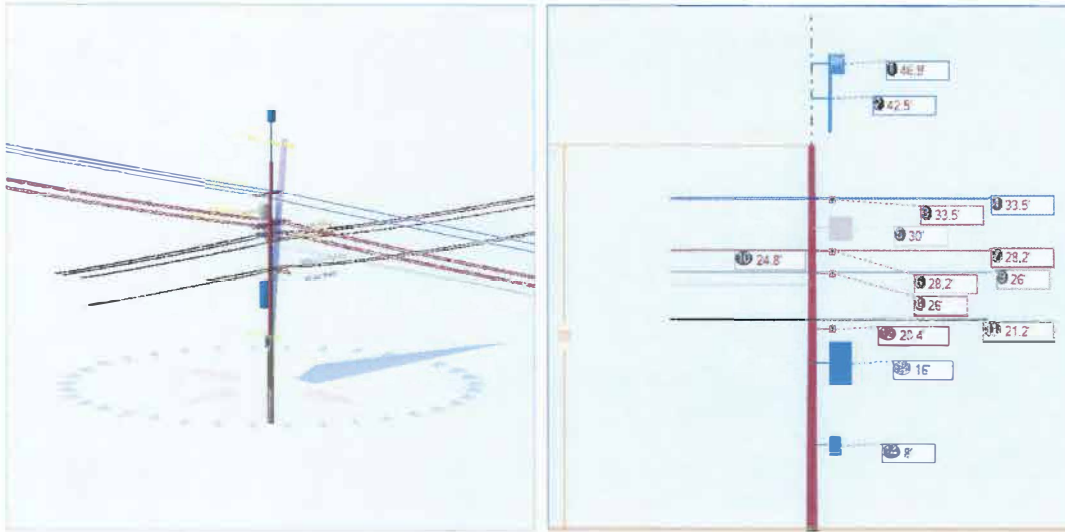
Bret McComb, P.E.



Attachments:

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

Pole Num:	<b>CRAN_RSFR_LOSA0_04</b>	Pole Length / Class:	<b>45 / 4</b>	Code:	<b>GO 95</b>	Structure Type:	<b>Junction</b>
Aux Data 1	<b>Unset</b>	Species:	<b>DOUGLAS FIR</b>	NESC Rule:	-	Status:	<b>Guy Wires Adequate</b>
Aux Data 2	<b>Unset</b>	Setting Depth (ft):	<b>6.00</b>	Construction Grade:	<b>B</b>	Pole Strength Factor:	<b>0.50</b>
Aux Data 3	<b>Unset</b>	G/L Circumference (in):	<b>35.00</b>	Loading District:	<b>Light</b>	Transverse Wind LF:	<b>1.00</b>
Aux Data 4	<b>Unset</b>	G/L Fiber Stress (psi):	<b>8,000</b>	Ice Thickness (in):	<b>0.00</b>	Wire Tension LF:	<b>1.00</b>
Aux Data 5	<b>Unset</b>	Allowable Stress (psi):	<b>3,894</b>	Wind Speed (mph):	<b>55.90</b>	Vertical LF:	<b>1.00</b>
Aux Data 6	<b>Unset</b>	Fiber Stress Ht. Reduc:	<b>No</b>	Wind Pressure (psf):	<b>8.00</b>		
Latitude:	<b>37.392256 Deg</b>		Longitude:	<b>-122.115053 Deg</b>		Elevation:	<b>116.3 Feet</b>



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
<b>Crossarm allowance 300 lbs</b>		
Maximum	57.2	0.0
Groundline	57.2	0.0
Vertical	2.7	270.0

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
<b>Crossarm allowance 300 lbs</b>		
Max Cap Util	24,914	2.9
Groundline	24,914	2.9
GL Allowable	44,052	

Guy System Component Summary				Load From Worst Wind Angle on Pole		Individual Maximum Load	
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
▶ Anchor	171.0	90.0		5.0	0.0	10.1	270.0
● EHS 3/8 (Span/Head)			24.8	6.5	0.0	13.1	270.0
<b>System Capacity Summary:</b>				<b>Adequate</b>		<b>Adequate</b>	

**Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 2.9°**

	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	395	41.9	11,967	48.0	27.2	1,028	130	1	1,029	26.4
Comms	0	0.0	90	0.4	0.2	8	232	2	10	0.3
GuyBraces	59	6.3	1,509	6.1	3.4	130	23	0	130	3.3
GenericEquipments	120	12.8	2,857	11.5	6.5	245	213	2	248	6.4
PowerEquipments	40	4.2	1,184	4.8	2.7	102	640	7	108	2.8
Pole	231	24.5	4,617	18.5	10.5	397	1,035	11	407	10.5
Crossarms	57	6.0	1,522	6.1	3.5	131	219	2	133	3.4
Insulators	40	4.3	1,168	4.7	2.7	100	133	1	102	2.6
Pole Load	944	100.0	24,914	100.0	56.6	2,140	2,626	27	2,167	55.6
Pole Reserve Capacity			19,138		43.4	1,754			1,727	44.4

**Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 2.9°**

	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>	712	75.5	20,297	81.5	46.1	1,743	1,591	16	1,760	45.2
Pole	231	24.5	4,617	18.5	10.5	397	1,035	11	407	10.5
<b>Totals:</b>	<b>944</b>	<b>100.0</b>	<b>24,914</b>	<b>100.0</b>	<b>56.6</b>	<b>2,140</b>	<b>2,626</b>	<b>27</b>	<b>2,167</b>	<b>55.6</b>

**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 GI* (ft-lb)
Secondary	TRIPLEX 6 AWG	28.25	27.61	0.5800	2.41	0.113	171.0	90.0	171.0	357	508	-3	933	1,438
Secondary	TRIPLEX 6 AWG	28.25	41.68	0.5800	2.41	0.113	171.0	90.0	171.0	357	508	-3	933	1,438
Secondary	TRIPLEX 6 AWG	28.25	27.61	0.5800	2.41	0.113	171.0	90.0	171.0	357	508	3	933	1,443
Secondary	TRIPLEX 6 AWG	28.25	41.68	0.5800	2.41	0.113	171.0	90.0	171.0	357	508	3	933	1,444
Secondary	TRIPLEX 6 AWG	28.25	27.61	0.5800	3.52	0.113	228.0	270.0	228.1	357	-508	-4	1,244	732
Secondary	TRIPLEX 6 AWG	28.25	41.68	0.5800	3.52	0.113	228.0	270.0	228.1	357	-508	-4	1,244	732
Secondary	TRIPLEX 6 AWG	28.25	27.61	0.5800	3.52	0.113	228.0	270.0	228.1	357	-508	4	1,244	740
Secondary	TRIPLEX 6 AWG	28.25	41.68	0.5800	3.52	0.113	228.0	270.0	228.1	357	-508	4	1,244	740
Primary	AAC 1 AWG 7 STRAND PANSY	33.50	30.11	0.3280	1.78	0.078	171.0	90.0	171.0	492	830	-2	626	1,453

Primary	AAC 1 AWG 7 STRAND PANSY	33.50	30.11	0.3280	1.78	0.078	171.0	90.0	171.0	492	830	2	626	1,457
Primary	AAC 1 AWG 7 STRAND PANSY	33.50	13.41	0.3280	2.69	0.078	228.0	270.0	228.0	492	-830	0	834	4
Primary	AAC 1 AWG 7 STRAND PANSY	33.50	32.86	0.3280	2.69	0.078	228.0	270.0	228.0	492	-830	2	834	7
Primary	AAC 1 AWG 7 STRAND PANSY	33.50	32.86	0.3280	2.69	0.078	228.0	270.0	228.0	492	-830	-3	834	2
<b>Totals:</b>											<b>-830</b>	<b>0</b>	<b>12,459</b>	<b>11,629</b>

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	26.00	35.68	1.0000	0.80	0.400	48.0	180.0	48.0	500	-12,984	0	0	-12,984
Telco	TELE 1.0	26.00	35.68	1.0000	0.80	0.400	48.0	180.0	48.0	500	-12,984	-1	0	-12,984
Telco	TELE 1.0	26.00	16.52	1.0000	0.80	0.400	48.0	180.0	48.0	500	-12,984	-2	0	-12,985
Telco	TELE 1.0	26.00	39.63	1.0000	3.43	0.400	153.0	0.0	153.1	500	12,984	5	0	12,989
Telco	TELE 1.0	26.00	39.63	1.0000	3.43	0.400	153.0	0.0	153.1	500	12,984	4	0	12,988
CATV	CATV .50	21.23	40.47	0.5700	3.22	0.600	153.0	0.0	153.1	700	14,858	31	0	14,889
CATV	CATV .50	21.23	40.47	0.5700	3.22	0.600	153.0	0.0	153.1	700	14,858	10	0	-14,848
CATV	CATV .50	21.23	25.75	0.5700	3.22	0.600	153.0	0.0	153.1	700	14,858	28	0	14,886
CATV	CATV .50	21.23	25.75	0.5700	3.22	0.600	153.0	0.0	153.1	700	14,858	3	0	-14,855
<b>Totals:</b>											<b>0</b>	<b>87</b>	<b>0</b>	<b>87</b>

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	42.50	0.36	0.0	0.0	53.06	84.00	--	3.00	--	-2	594	593
Cylinder	Antenna-KMW FX-OM2LI OH2	46.94	1.14	0.0	0.0	20.00	24.00	--	16.00	--	2	906	907
Box	Housing For RRUs	16.00	12.66	270.0	0.0	130.00	53.00	16.00	--	23.00	-7	1,205	1,198
Box	100amp Meter	8.00	7.43	270.0	0.0	10.00	24.00	4.63	--	12.00	0	79	79
<b>Totals:</b>											<b>-7</b>	<b>2,783</b>	<b>2,776</b>

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-50KVA	30.00	17.86	270.0	270.0	640.00	30.00	--	24.00	--	-48	1,198	1,151
<b>Totals:</b>											<b>-48</b>	<b>1,198</b>	<b>1,151</b>

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	28.25	5.71	270.0	270.0	53.00	4.50	3.50	96.00	0	79	79

Normal	CROSSARM 3-1/2 X 4-1/2 X 6	33.50	5.41	270.0	270.0	40.00	4.50	3.50	72.00	-1	47	46
Normal	CROSSARM 3-1/2 X 4-1/2 X 7	26.00	5.83	0.0	0.0	46.00	4.50	3.50	84.00	22	872	895
Offset	ALLEY ARM 3-1/2 X 4-1/2 X 4	20.42	6.15	0.0	0.0	27.00	4.50	3.50	48.00	68	392	459
<b>Totals:</b>										<b>89</b>	<b>1,390</b>	<b>1,479</b>

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)	
Suspension	Suspension 11.50"	28.25	-25.00	167.1	180.0	11.00	4.75	6.00	-22	45	22	
Suspension	Suspension 11.50"	28.25	-40.00	171.9	180.0	11.00	4.75	6.00	-36	45	9	
Suspension	Suspension 11.50"	28.25	25.00	12.9	180.0	11.00	4.75	6.00	23	45	68	
Suspension	Suspension 11.50"	28.25	40.00	8.1	180.0	11.00	4.75	6.00	37	45	82	
Suspension	Suspension 11.50"	28.25	-25.00	192.9	0.0	11.00	4.75	6.00	-23	45	21	
Suspension	Suspension 11.50"	28.25	-40.00	188.1	0.0	11.00	4.75	6.00	-37	45	8	
Suspension	Suspension 11.50"	28.25	40.00	351.9	0.0	11.00	4.75	6.00	36	45	81	
Suspension	Suspension 11.50"	28.25	25.00	347.1	0.0	11.00	4.75	6.00	22	45	67	
Deadend	Deadend 12.75"	33.50	-30.00	190.2	180.0	3.00	3.80	8.00	-7	57	49	
Deadend	Deadend 12.75"	33.50	30.00	349.8	180.0	3.00	3.80	8.00	8	57	64	
Deadend	Deadend 12.75"	33.50	0.00	270.0	0.0	3.00	3.80	8.00	0	57	56	
Deadend	Deadend 12.75"	33.50	30.00	349.8	0.0	3.00	3.80	8.00	7	57	64	
Deadend	Deadend 12.75"	33.50	-30.00	190.2	0.0	3.00	3.80	8.00	-8	57	49	
Deadend	Deadend 12.75"	26.00	35.00	80.5	180.0	3.00	3.80	12.75	-1	70	69	
Deadend	Deadend 12.75"	26.00	-35.00	279.5	180.0	3.00	3.80	12.75	-2	70	68	
Deadend	Deadend 12.75"	26.00	-15.00	291.3	180.0	3.00	3.80	12.75	-2	70	68	
Deadend	Deadend 12.75"	26.00	35.00	80.5	0.0	3.00	3.80	12.75	5	70	75	
Deadend	Deadend 12.75"	26.00	-35.00	279.5	0.0	3.00	3.80	12.75	4	70	74	
Pin	Pin Insulator - 5 KV	20.60	-15.00	291.3	0.0	3.00	3.80	12.75	4	70	74	
Pin	Pin Insulator - 5 KV	20.60	40.00	81.3	0.0	6.00	3.50	7.50	4	30	34	
Pin	Pin Insulator - 5 KV	20.60	25.00	76.2	0.0	6.00	3.50	7.50	4	30	34	
<b>Totals:</b>										<b>16</b>	<b>1,120</b>	<b>1,135</b>

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	24.75	24.75	171.00	0.375	75.00	90.0	0.0	0.273	168.26	0.80



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 <sup>2</sup> (lbs)	Maximum Tension <sup>2</sup> (lbs)	Applied Tension <sup>3</sup> (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL <sup>3</sup> (ft-lb)	
EHS 3/8	Span/Head	2.30e+7	15,400	0.75	11,550	700	1,514	1,514	752	0	752	38	1,466
<b>Totals:</b>										<b>0</b>	<b>752</b>	<b>38</b>	<b>1,466</b>

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 <sup>2</sup> (lbs)	Load at Pole MCU <sup>3</sup> (lbs)	Max Required Capacity <sup>2</sup> (%)
Anchor			30.00	171.00	90.0	20,000	0.75	15,000	1,514	752	10.1

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	24.35	33.75	10.20	8.75	6.69	11.15	1,60e+6	60.00	57.00	39.00	97,896	972.56	37.04

**DOUGLAS FIR POLE SIZING CHART**

Class	H-6	H-5	H-4	H-3	H-2	H-1	1	2	3	4	5	6
<b>Minimum Circumference at Top (Inches)</b>	39	37	35	33	31	29	27	25	23	21	19	17
<b>Length of Pole (Feet)</b>	<b>Minimum Circumference at 6 feet from Butt (Inches)</b>											
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\_04

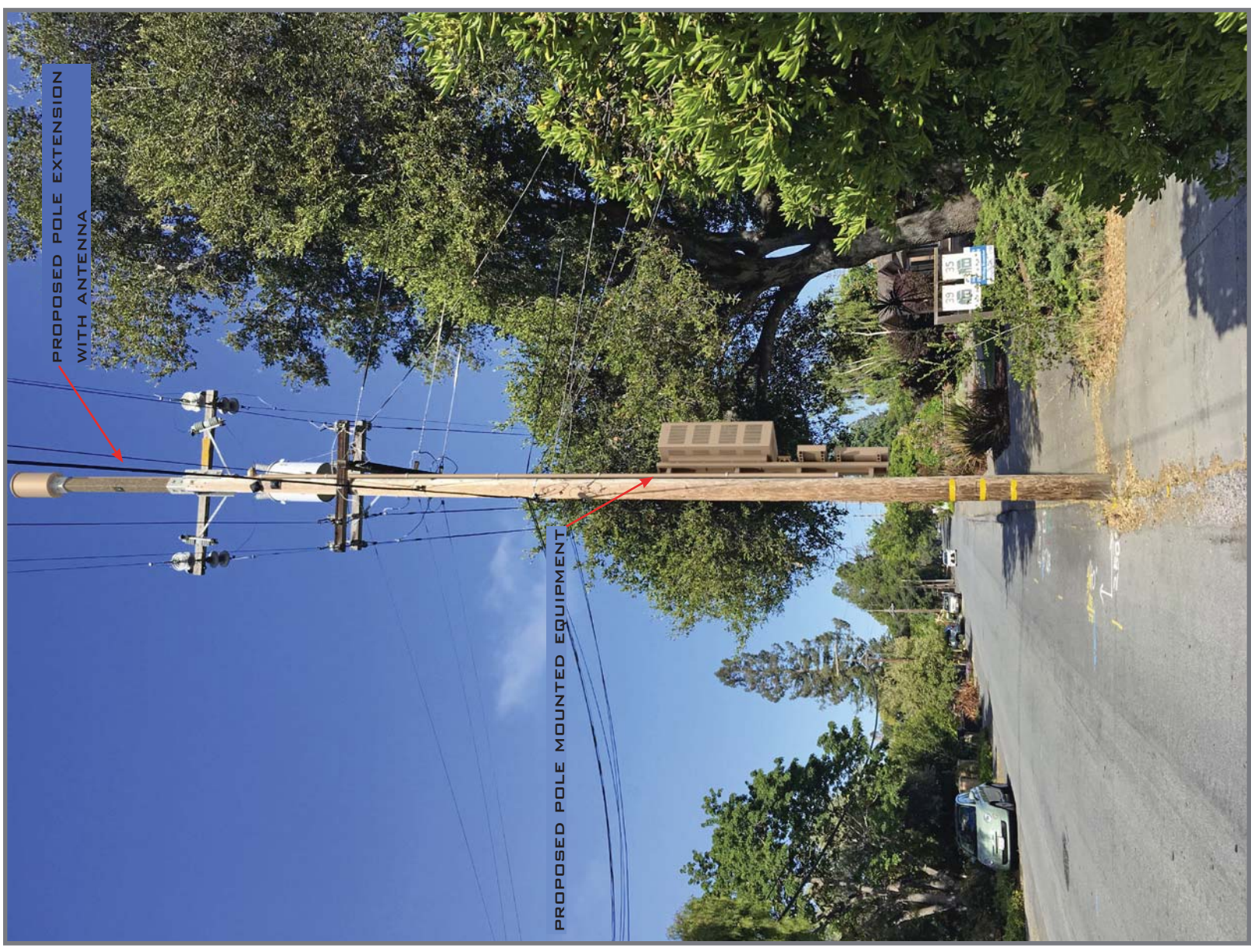
33 PINE LANE LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED LOOKING WEST ALONG PINE LANE



# Alternate Review

- ❑ AT&T proposed a node location near North San Antonio and Pine Lane
- ❑ Existing (traditional) cell sites are not suitable candidates for colocation as they do not meet network requirements
- ❑ Two alternate locations were considered



## Alternative Site Location (A1)

This location is a wood utility pole located in the public ROW on the south side of Alvarado Avenue at the intersection of Vera Cruz Avenue

This pole is a possible candidate but has more pole top equipment and is less desirable due to network traffic needs

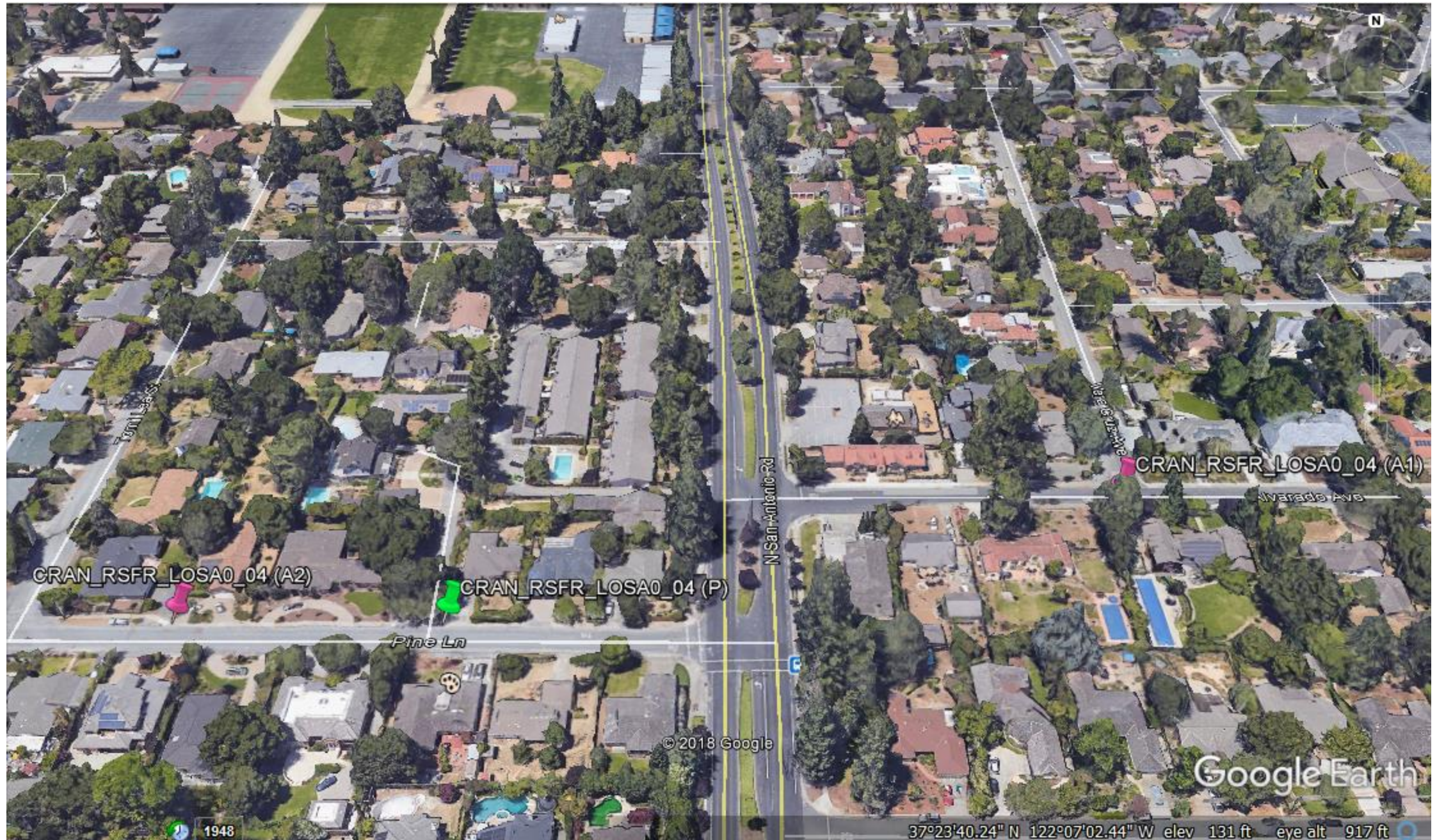


### Alternative Site Location (A2)

This location is a wood utility pole located in the public ROW on the north side of Pine Lane near Tomi Lea Street

This pole is a possible candidate but is not ideal due to the fact that it has more pole top equipment, and potential climbing space or ground clearance issues





CRAN\_RSFR\_LOSA0\_04 (A2)

CRAN\_RSFR\_LOSA0\_04 (P)

CRAN\_RSFR\_LOSA0\_04 (A1)

7th St

Pine Ln

N San Antonio Rd

10th St

Varado Ave

© 2018 Google

Google Earth

1948

37°23'40.24" N 122°07'02.44" W elev 131 ft eye alt 917 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\_04  
**SITE ADDRESS:** ROW ADJCT TO 33 PINE LN  
 LOS ALTOS, CA, 94022  
**SITE TYPE:** PG&E POLE (PM# 114474135)  
**POLE OWNER:** PG&E  
**FA LOCATION:** I 2898152  
**USID:** TBD

### SITE INFORMATION

**APPLICANT:** ARTI MOBILITY  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583

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

**APN:** ADJCT TO 167-23-085

**SITE ADDRESS:** ROW ADJCT TO 33 PINE LN  
 LOS ALTOS, CA, 94022

**COUNTY:** SANTA CLARA

**LATITUDE:** 37° 23' 32.12" N (37.3922600) NAD 83

**LONGITUDE:** 122° 06' 54.19" W (-122.1150700) NAD 83

**GROUND ELEVATION:** ± 116.3 AMSL

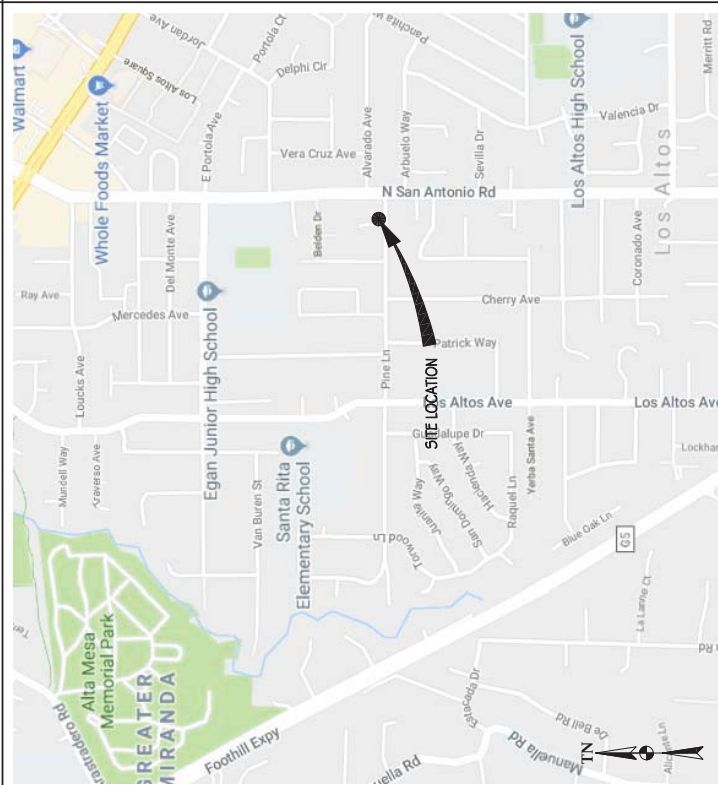
**ZONING:** PUBLIC ROW

**ZONING JURISDICTION:** CITY OF LOS ALTOS

**PG&E SAP ID:** 100509246

**STREET CLASSIFICATION:** LOCAL

### 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

**FROM:** 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583  
**TO:** 33 PINE LANE, 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
- MERGE ONTO I-680 S
- STAY ON I-680 S, FOLLOW SIGNS FOR I-580
- TAKE EXIT 12 FOR MISSION BLVD TOWARD I-680
- KEEP RIGHT AT FORK, FOLLOW SIGNS FOR CA-262 S/ MISSION BLVD
- MERGE ONTO CA-262 S/ MISSION BLVD
- TAKE EXIT ON LEFT TOWARD I-680 S/ SAN JOSE
- MERGE ONTO I-680 S
- TAKE CA-237 W EXIT TOWARD MTN VIEW
- CONTINUE ON CA-237 W
- KEEP LEFT TO CONTINUE ON CA-237 W/ SOUTHBAY FWY
- TURN RIGHT ONTO EL CAMINO REAL
- TURN RIGHT ONTO DISTEL DR
- TURN RIGHT ONTO MARICH WAY
- TURN LEFT ONTO PANCHILIA WAY
- TURN LEFT ONTO ALVARADO AVE
- TURN LEFT ONTO N SAN ANTONIO RD
- END AT: 33 PINE LANE, LOS ALTOS, CA 94022

ESTIMATED TIME: 18 MINS ESTIMATED DISTANCE: 10 MI

256	FT
0.1	MI
0.3	MI
0.3	MI
3.9	MI
17.5	MI
0.2	MI
0.3	MI
0.5	MI
0.9	MI
3.1	MI
0.9	MI
8.4	MI
0.5	MI
2.0	MI
2.0	MI
0.1	MI
0.2	MI
0.3	MI
213	FT
207	FT

### PROJECT TEAM

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

**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

### PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR ARTI 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 GOBS 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) DIRECTIONAL, & (1) NMM P/CONNECTION2 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**



ARTI MOBILITY  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210  
 IRVINE, CA 92614



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



CRAN\_RSFR\_LOSAO\_04  
 ROW ADJCT TO 33 PINE LN  
 LOS ALTOS, CA 94022

### ISSUE STATUS

DATE	DESCRIPTION
06/08/16	CD 90%
10/29/16	CD 100%

**DRAWN BY:** IBREL

**CHECKED BY:** T. DCARLO

**APPROVED BY:** B. MCCOMB

**DATE:** 10/29/16

### TITLE SHEET

SHEET NUMBER  
**T-1**











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



36 DECUITVE PARK, SUITE 210  
IRVINE, CA 92614

Infrastructure experts. Small cell leaders.



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WE REPAIR AND RECONSTRUCT AS BUILT DRAWINGS OF SERVICE, AND SHALL BEAR THE RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION CONTAINED THEREIN. WE SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS ON OTHER PROJECTS WHICH MAY BE SHOWN ON THESE DRAWINGS. ALL RIGHTS RESERVED.



CRAN\_RSFR\_LOSAO\_04  
ROW ADJUCT TO 33 PINE LN  
LOS AUTOS, CA 94022

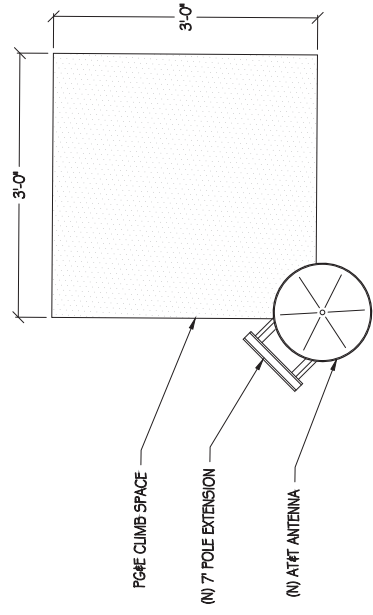
ISSUE STATUS

DATE	DESCRIPTION
06/08/16	CD 90%
10/29/16	CD 100%

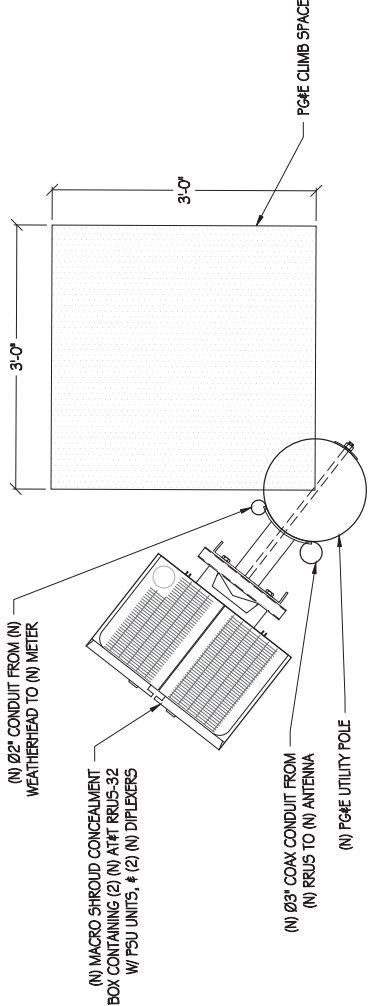
DRAWN BY: IBBL  
CHECKED BY: T. D. CARLO  
APPROVED BY: B. McCOMB  
DATE: 10/29/16  
SHEET TITLE:

EQUIPMENT PLAN &  
ANTENNA PLANS  
SHEET NUMBER

A-2

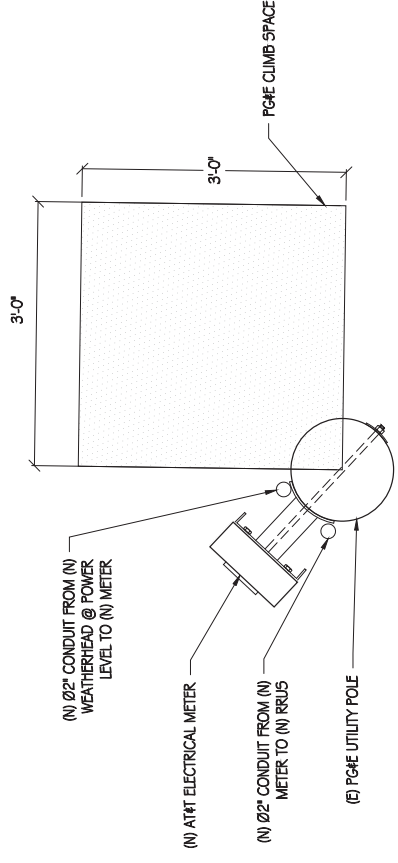


ANTENNA PLAN  
1"=1'

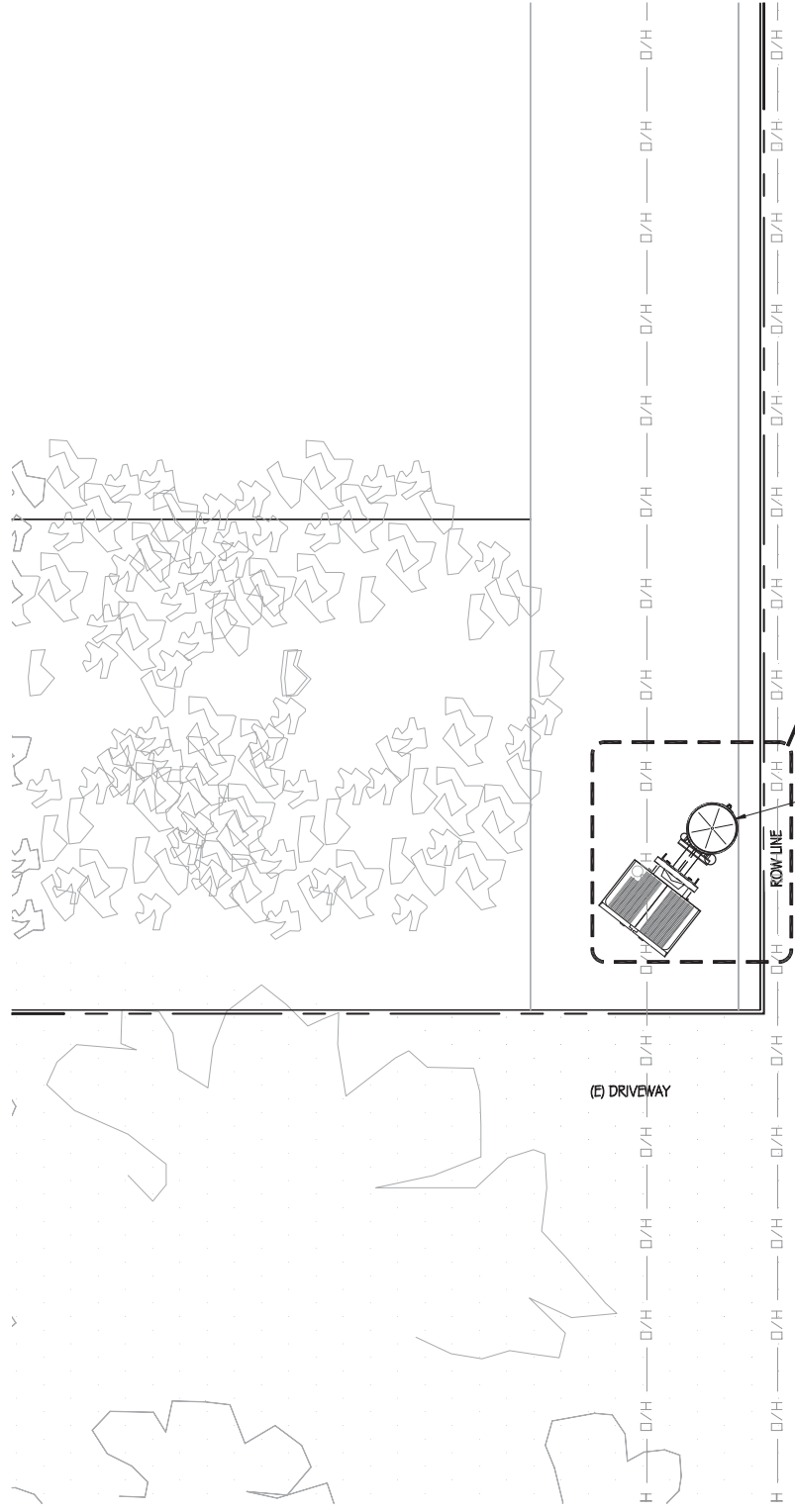


RRU PLAN  
1"=1'

NOTE: (E) CATV TO BE MOVED OUT OF CLIMBING SPACE



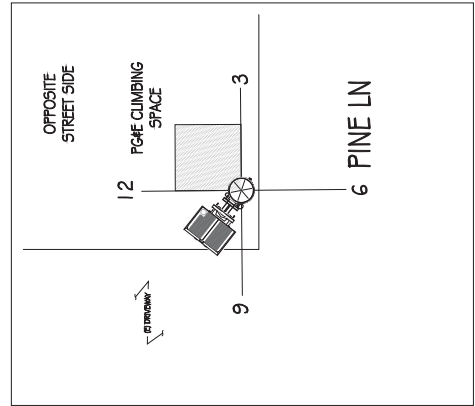
ELECTRICAL METER PLAN  
1"=1'



SEE ANTENNA PLANS

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

PINE LN



EQUIPMENT PLAN  
1/2"=1'



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CRAN\_RSFR\_LOSAO\_04

ROW ADJUCT TO 39 FINE LN  
LOS AUTOS, CA 94022

ISSUE STATUS

DATE	DESCRIPTION
06/08/16	CD 90%
10/29/16	CD 100%

DRAWN BY: IBEL

CHECKED BY: T. DCARLO

APPROVED BY: B. MCCOMB

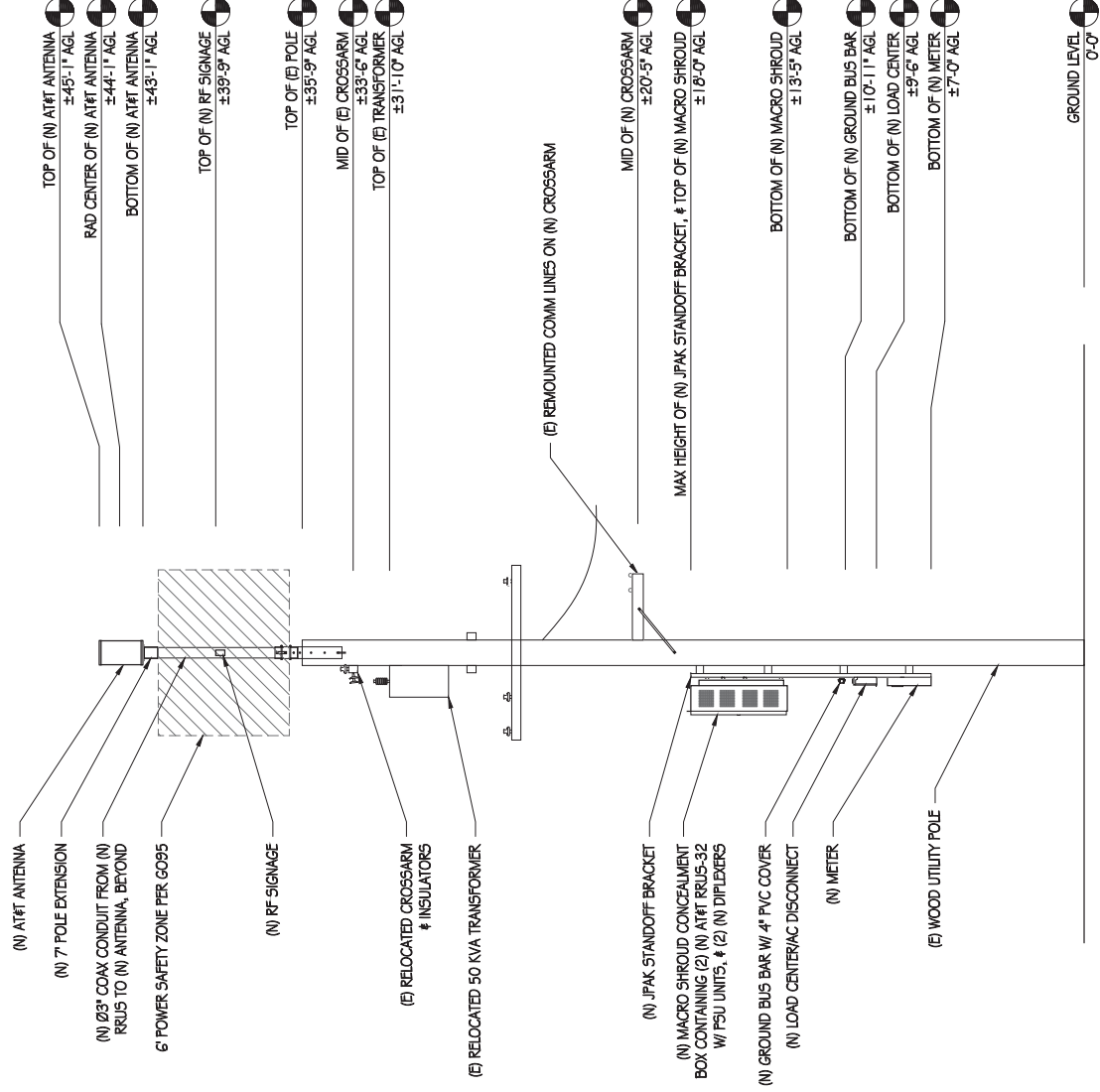
DATE: 10/29/16

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-3

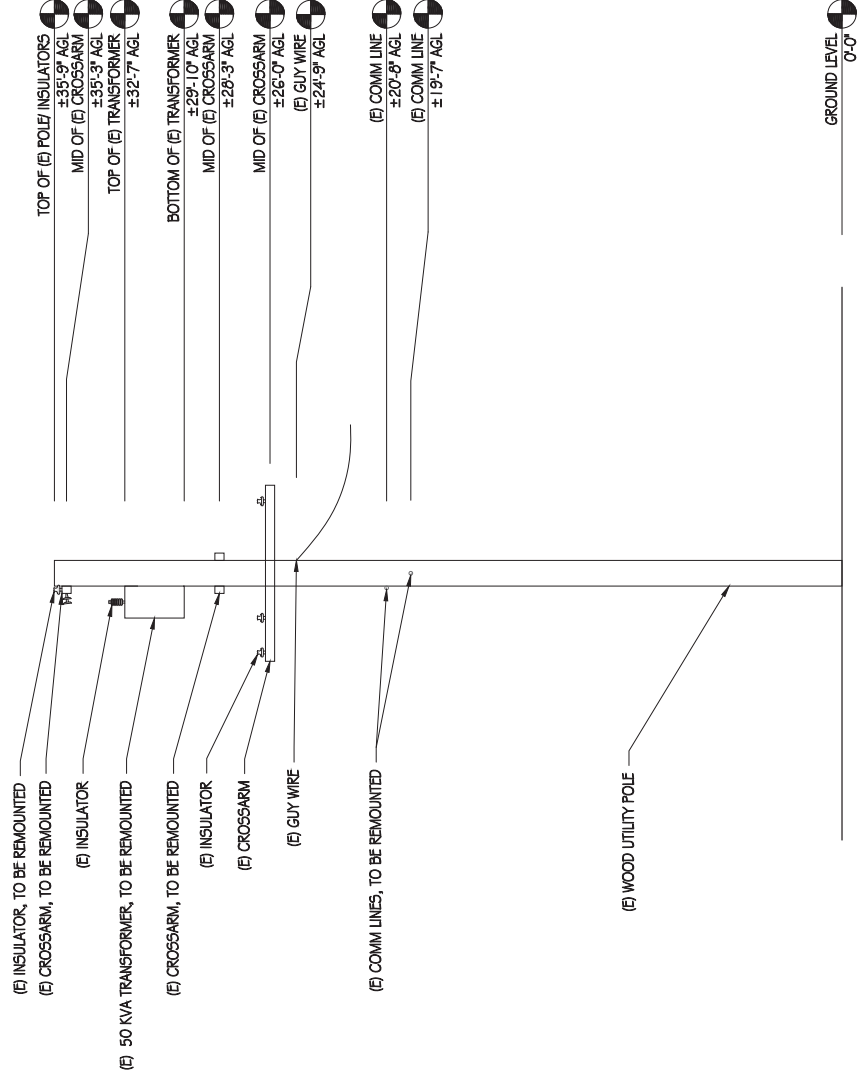


NEW SOUTH ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN

NOTE: (E) CATV TO BE MOVED OUT OF CLIMBING SPACE



EXISTING SOUTH ELEVATION

1/4" = 1'-0"

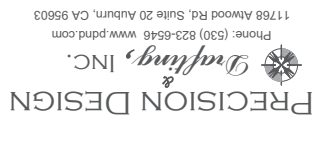




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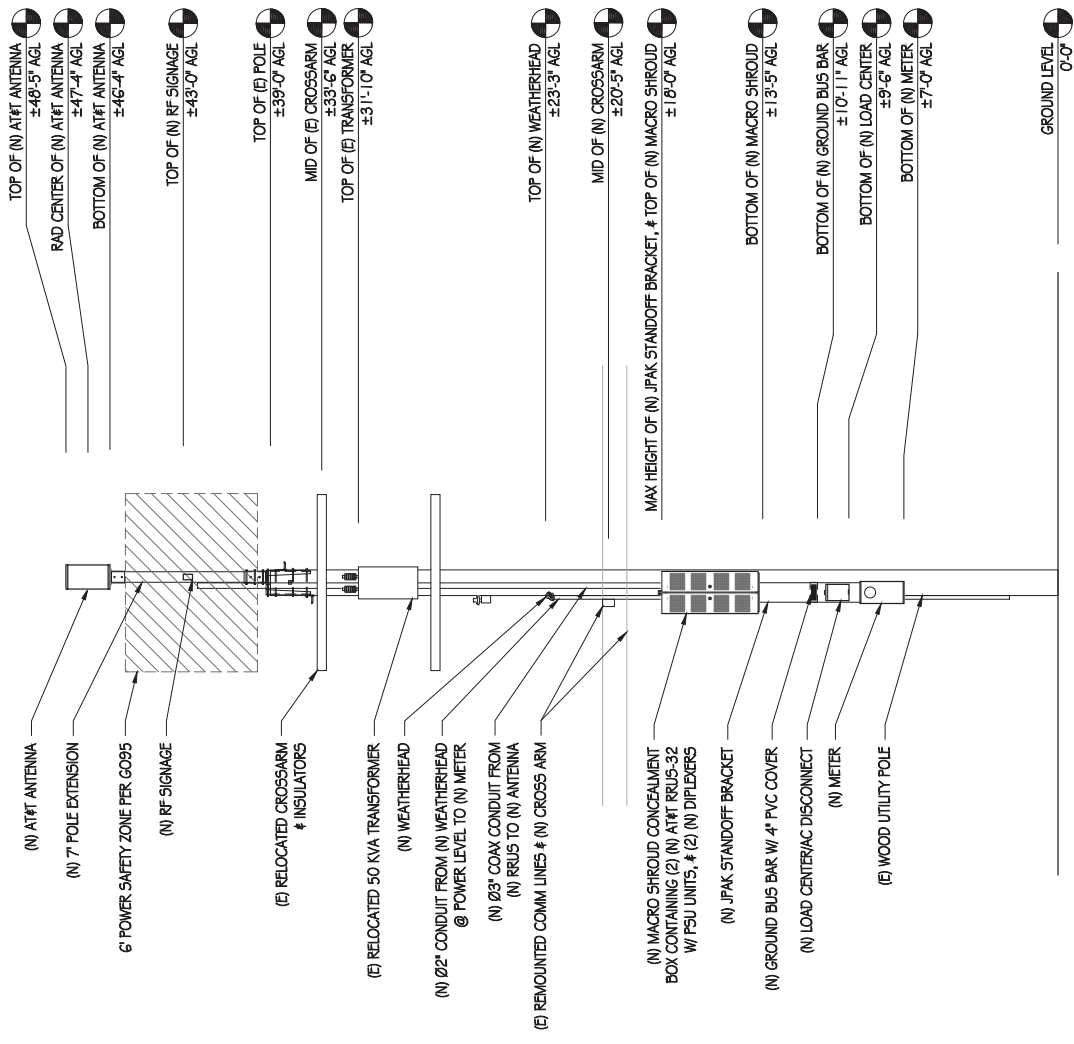
CRAN\_RSFR\_LOSAO\_04  
ROW ADJCT TO 39 FINE LN  
LOS AUTOS, CA 94022

ISSUE STATUS	
DATE	DESCRIPTION
06/08/16	CD 90%
10/29/16	CD 100%

DRAWN BY: IBEL  
CHECKED BY: T. D'CARLO  
APPROVED BY: B. MCCOMB  
DATE: 10/29/16  
SHEET TITLE:

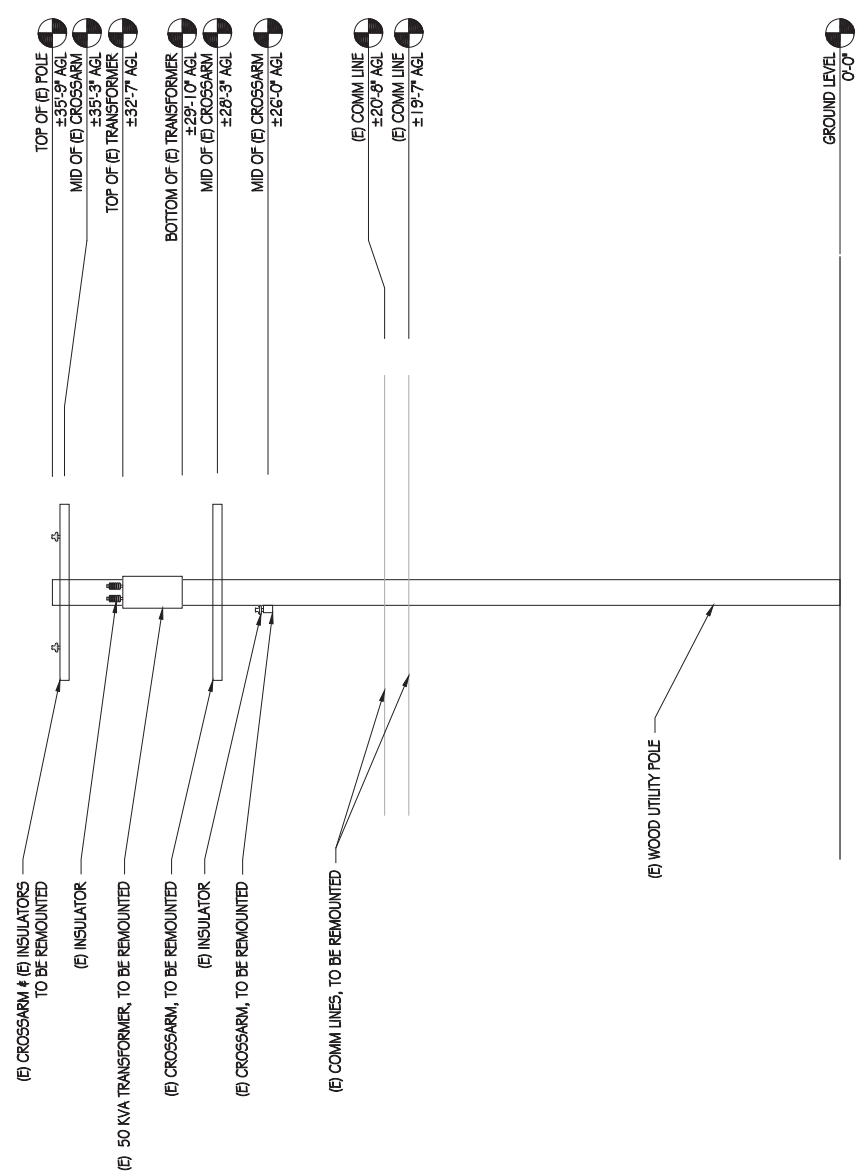
ELEVATIONS  
SHEET NUMBER

A-4



### NEW WEST ELEVATION

1/4" = 1'-0"  
NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN  
NOTE: (E) CATV TO BE MOVED OUT OF CLIMBING SPACE



### EXISTING WEST ELEVATION

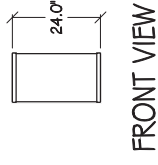
1/4" = 1'-0"

**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 CUYED.
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.

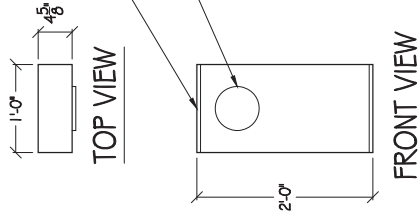
**KMW FX-OM2L1OH2-06T**

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



**1** ANTENNA  
 1/2"=1'

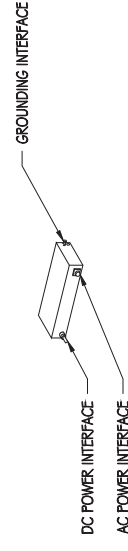
COOPER B-LINE 1141B ELECTRICAL PANEL TO MEET COMMERCIAL PSHF REQUIREMENTS WITH TEST BYPASS



**5** METER DETAIL  
 1"=1'

**ERICSSON PSU AC 08**

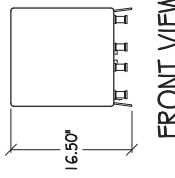
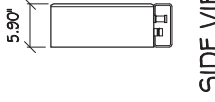
DIMENSIONS: 2.72" X 10.79" X 7.09"  
 WEIGHT: 11.46 LBS



**6** AC POWER MODULE  
 NTS

**ERICSSON RRUS-4415**

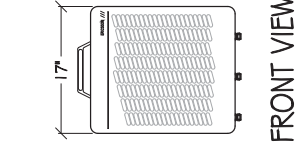
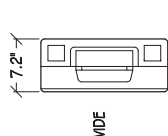
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



**2** RRUS-4415 DETAIL  
 1"=1'

**ERICSSON RRUS-11**

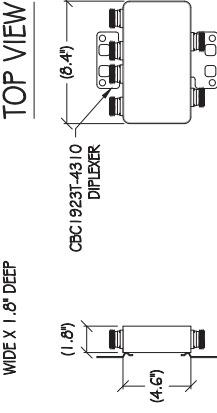
TOTAL WEIGHT: 55 LBS  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



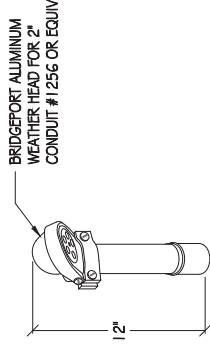
**3** RRUS-11 DETAIL  
 1"=1'

**COMMSCOPE  
 CBC1923T-4310  
 E11F13P06**

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

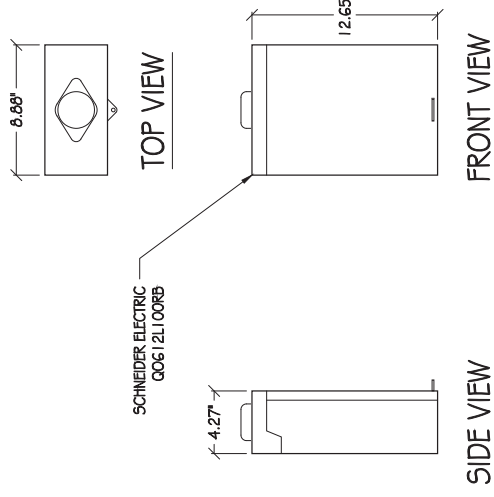
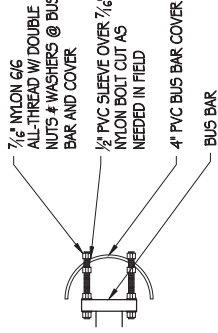


**4** DIPLEXER DETAIL  
 1"=6"

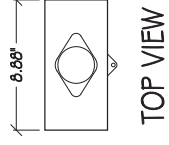


**8** WEATHER HEAD  
 NTS

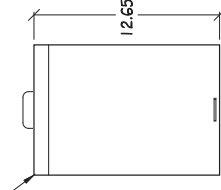
**7** BUS BAR COVER  
 6"=1'



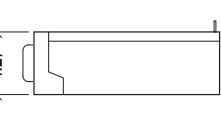
**10** LOAD CENTER/AC DISCONNECT  
 1"=6"



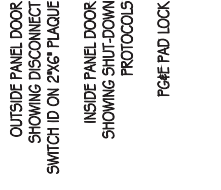
**TOP VIEW**



**FRONT VIEW**



**SIDE VIEW**



**OUTSIDE PANEL DOOR SHOWING DISCONNECT SWITCH ID ON 2X6 PLAQUE**  
**INSIDE PANEL DOOR SHOWING SHUT-DOWN PROTOCOLS**  
**PSHF PAD LOCK**

**SHUT-DOWN DISCONNECT**

DATE	DESCRIPTION
06/08/16	CD 90%
10/29/16	CD 100%

**NORMAL SHUT-DOWN PROCEDURES**

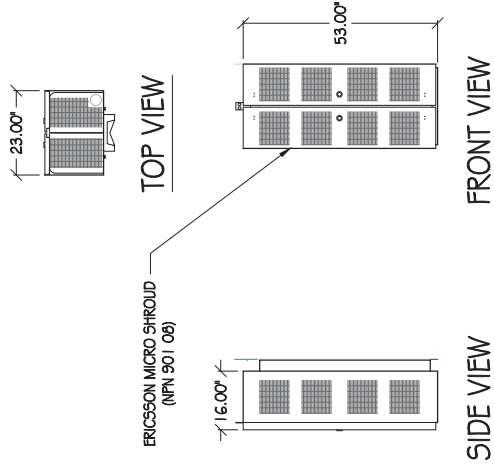
1. CALL LOCK LOG-SIZE AND SHIP FROM TO SCHEDULE SHUT-DOWN DAY AND TIME.
2. GIVE NOT THE MAKE NUMBER.
3. ON SERVICE DAY OF SHUT-DOWN, CALL THE DISCONNECT NUMBER TO THE "OFF" POSITION.
4. CALL LOCK WHEN WORK IS COMPLETED.

**EMERGENCY SHUT-DOWN PROCEDURES**

1. CALL LOCK LOG-SIZE AND SHIP.
2. GIVE NOT THE MAKE NUMBER.
3. CALL DISCONNECT NUMBER TO THE "OFF" POSITION.
4. CALL LOCK WHEN THE WORK IS COMPLETED.

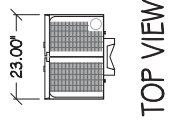
SHUT-DOWN PROCEDURES ON SHIP NAME

**9** MICRO SHROUD CONCEALMENT  
 1/2"=1'



**SIDE VIEW**

**FRONT VIEW**



**TOP VIEW**

**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



ART MOBILITY  
 5001 DECATUR PARKWAY  
 SAN RAMON, CA 94583



36 DECATUR PARK, SUITE 210  
 IRVINE, CA 92614



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 Phone: (530) 823-6546 www.prdn.com



CRAN\_RSFR\_LOSAO\_04

ROW ADJCT TO 33 PINE LN  
 LOS AUTOS, CA 94022

**ISSUE STATUS**

DATE	DESCRIPTION
10/29/16	CD 100%

DRAWN BY: IBFBL  
 CHECKED BY: T. DCARLO  
 APPROVED BY: B. MCCOMB  
 DATE: 10/29/16

SHEET TITLE:  
 DETAILS  
 SHEET NUMBER  
**A-5**

## STRUCTURAL STEEL NOTES:

1. 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.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE SHAPES) TO BE ASTM A992 (F<sub>y</sub>=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (15 OR H56) SHALL BE ASTM A500 (GRADE B (F<sub>y</sub>=46,000 PSI)). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F<sub>y</sub>=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC & AWS D.1.1, WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE 12.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
5. 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.
6. THREADED RODS SHALL BE ASTM F593 CV 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
7. 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.
8. 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.
9. 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.
10. AT ALL WEB STIFFENER PLATES LEAVE 3/16" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

### ISSUE STATUS

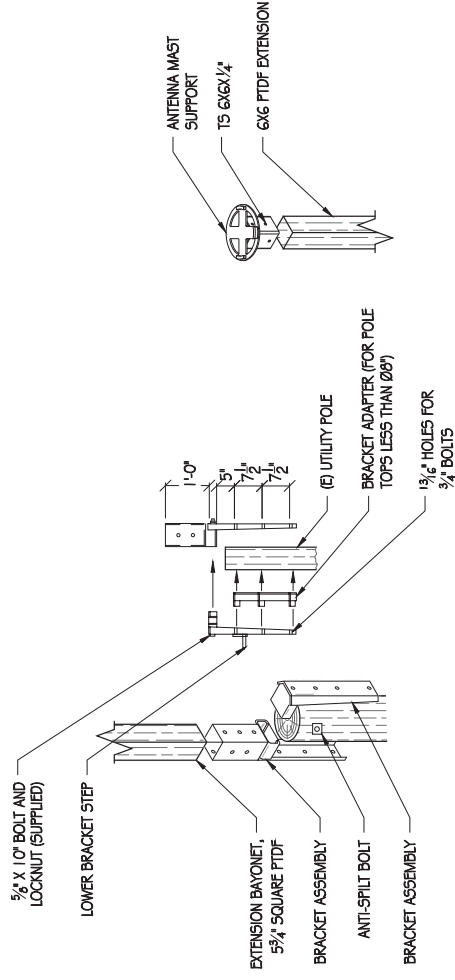
Δ	DATE	DESCRIPTION
	06/08/16	CD 90%
	10/29/16	CD 100%

DRAWN BY:	IBFL
CHECKED BY:	T. DCARLO
APPROVED BY:	B. MCCOMB
DATE:	10/29/16
SHEET TITLE:	

DETAILS

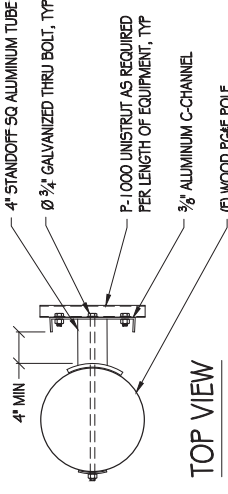
SHEET NUMBER

A-6



## 1 POLE TOP EXTENSION ASSEMBLY

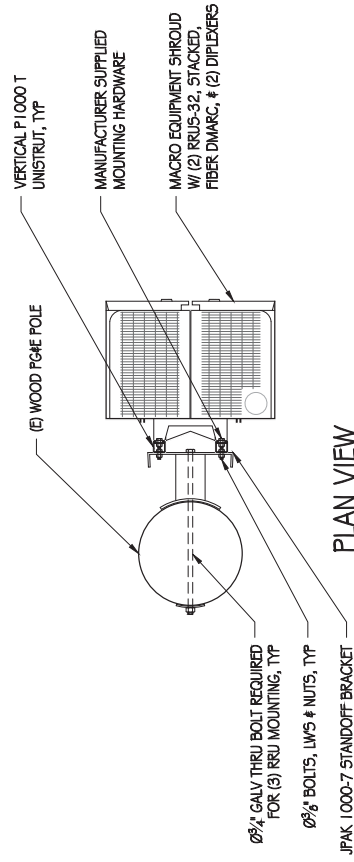
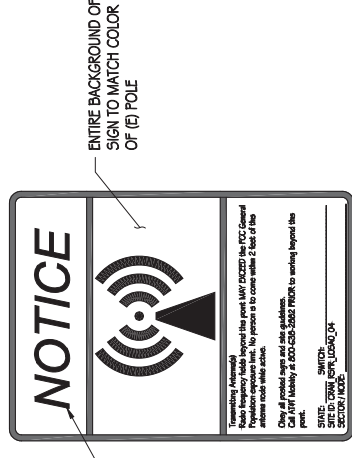
1/2" = 1"



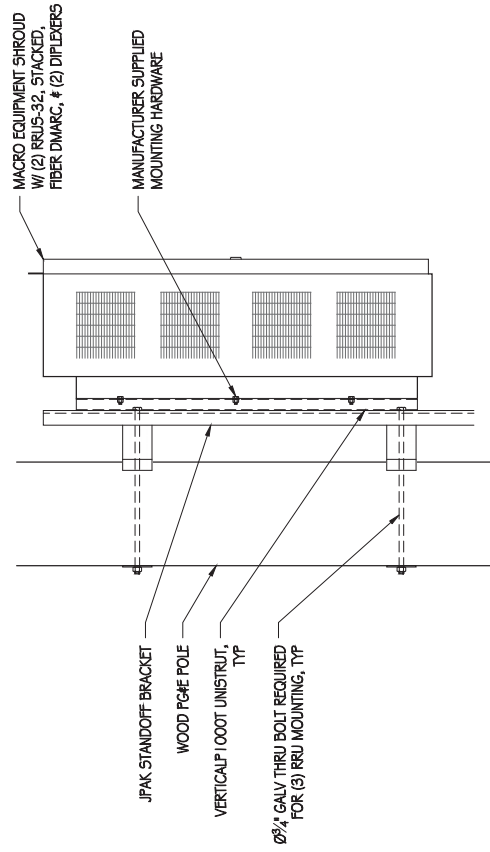
## 2 NOTICE SIGNAGE

NTS

NOTES:  
NOTICE IS A VINYL STICKER ADHERED TO POLE



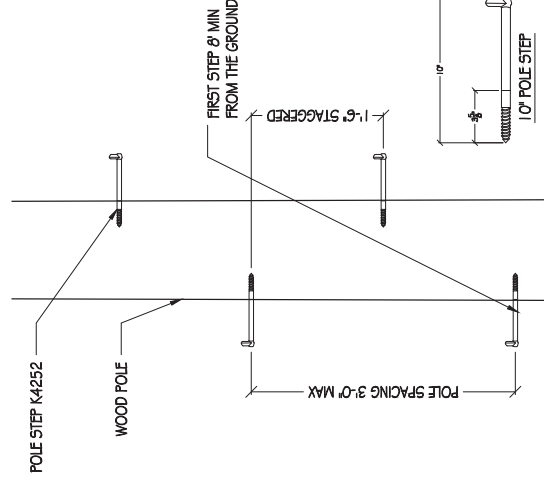
## PLAN VIEW



## SIDE VIEW

## 3 RRU MOUNTING DETAIL

1" = 1"



## 5 POLE STEP

1" = 1"

NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS















# at&t

SITE ID:  
SITE ADDRESS:

CRAN\_RSFR\_LOSAO\_04  
33 PINE LN  
LOS ALTOS, CA, 94022

PM#:  
SITE TYPE:  
POLE OWNER:  
FA LOCATION:  
USID:

114474135  
PG&E POLE #TBD  
PG&E  
14816593  
198298



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



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

### 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 167-23-035

SITE ADDRESS: 33 PINE LN  
LOS ALTOS, CA, 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 32.12" N (37.392256) NAD 83

LONGITUDE: 122° 06' 54.19" W (-122.115053) NAD 83

GROUND ELEVATION: ± 116.3' AMSL

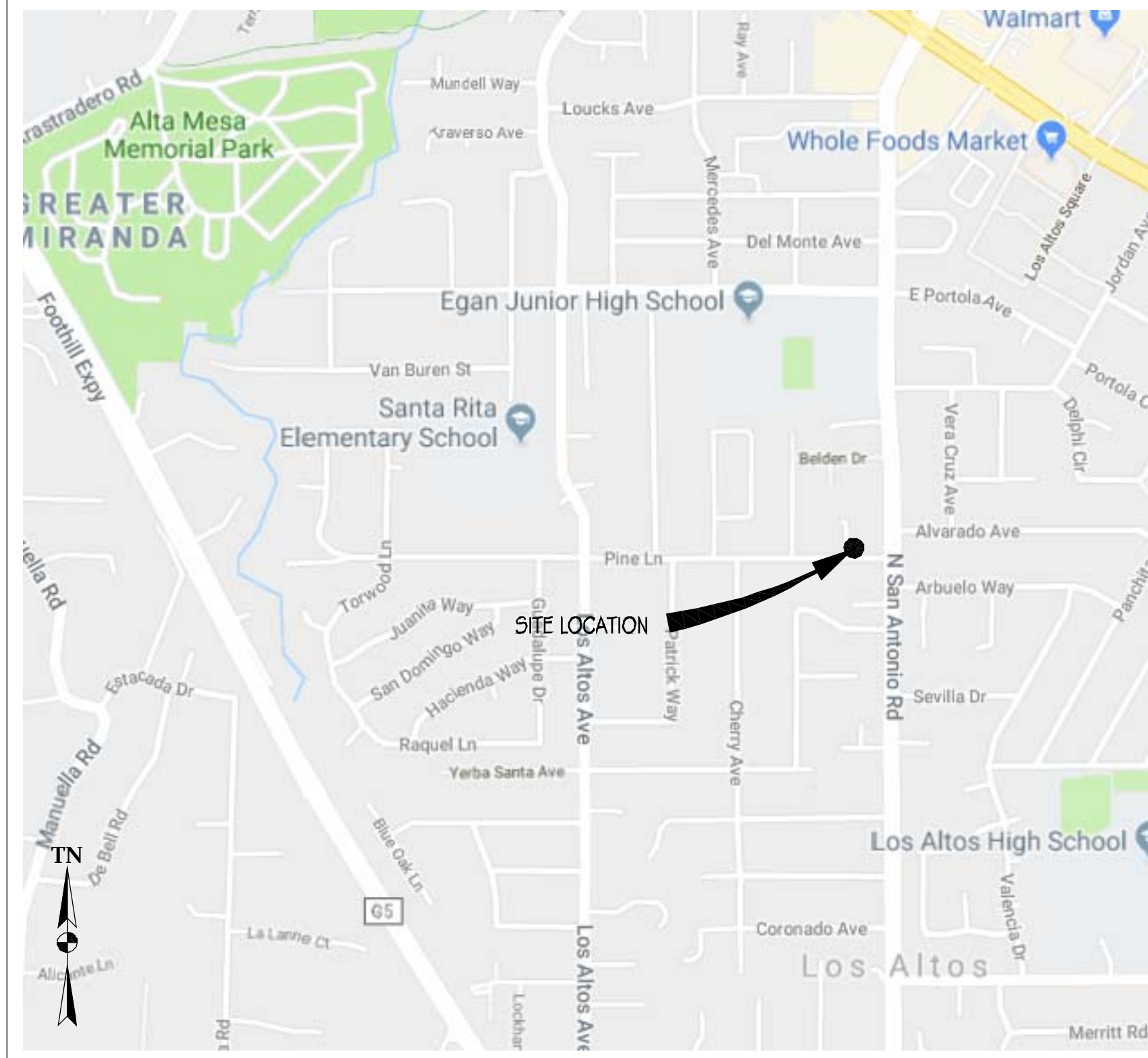
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100509246

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) 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/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: 33 PINE LANE, 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. STAY ON I-680 S, FOLLOW SIGNS FOR I-580 17.5 MI
7. TAKE EXIT 12 FOR MISSION BLVD TOWARD I-880 0.2 MI
8. KEEP RIGHT AT FORK, FOLLOW SIGNS FOR CA-262 S/ MISSION BLVD 0.3 MI
9. MERGE ONTO CA-262 S/ MISSION BLVD 0.6 MI
10. TAKE EXIT ON LEFT TOWARD I-880 S/ SAN JOSE 0.9 MI
11. MERGE ONTO I-880 S 3.1 MI
12. TAKE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
13. CONTINUE ON CA-237 W 8.4 MI
14. KEEP LEFT TO CONTINUE ON CA-237 W SOUTH BAY FWY 0.5 MI
15. TURN RIGHT ONTO EL CAMINO REAL 2.0 MI
16. TURN RIGHT ONTO DISTEL DR 2.0 MI
17. TURN RIGHT ONTO MARICH WAY 0.1 MI
18. TURN LEFT ONTO PANCHILA WAY 0.2 MI
19. TURN RIGHT ONTO ALVARADO AVE 0.3 MI
20. TURN LEFT ONTO N SAN ANTONIO RD 213 FT
21. TURN RIGHT ONTO PINE LN 207 FT

END AT: 33 PINE LANE, LOS ALTOS, CA 94022  
ESTIMATED TIME: 18 MINS ESTIMATED DISTANCE: 10 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.

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



CRAN\_RSFR\_LOSAO\_04  
33 PINE LN  
LOS ALTOS, CA 94022

### ISSUE STATUS

△	DATE	DESCRIPTION
	06/08/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.  
CHECKED BY: T. D'CARLO  
APPROVED BY: B. McCOMB  
DATE: 07/25/19

### TITLE SHEET

SHEET NUMBER

T-1



## GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC 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.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC/LCBCS REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYORS MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. IS ANY DISCREPANCY IS FOUND BETWEEN THE CAREOUS ELEMENTS 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.
- 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.
- DO NOT EXCAVATE OR DISTURB BEYOND 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 VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS 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 HIS/HER OWN RISK AND EXPENSE.

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 AND/OR FIELD TILE ENCOUNTERED/ DISRUPTED 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 "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.

13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

14. INCLUDE MISC ITEMS PER AITW WIRELESS SPECIFICATIONS.

15. ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHUTDOWN SIGNALS) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RUGS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.

16. FOUNDED RF WAC MARKING 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 STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN USING A DURABLE OUTDOOR PAINT.

18. CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, & 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		(E) BRICK
	GROUND ROD		(E) MASONRY
	GROUND BUSS BAR		CONCRETE
	MECHANICAL GRND. CONN.		EARTH
	GROUND ACCESS WELL		GRAVEL
	ELECTRIC BOX		PLYWOOD
	TELEPHONE BOX		SAND
	LIGHT POLE		WOOD CONT.
	FND. MONUMENT		WOOD BLOCKING
	SPOT ELEVATION		STEEL
	SET POINT		CENTERLINE
	REVISION		PROPERTY LINE
	GRID REFERENCE		MATCH LINE
	DETAIL REFERENCE		WORK POINT
	ELEVATION REFERENCE		GROUND CONDUCTOR
	SECTION REFERENCE		COAX 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

- 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.
- 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.
- 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.
- 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 EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER AND GROUNDING PLAN DRAWINGS. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.

## APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- 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, ASD, NINTH EDITION
  - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
  - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
  - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY 'C3' AND 'HIGH SYSTEM EXPOSURE')
  - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
  - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
  - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
  - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
  - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
  - FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

## GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
- IN STREET SURFACE TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 1" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BATTERY
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #1 & WARNING TAPE ABOVE RING.

## GENERAL GROUNDING NOTES

- 5/8" x 10' ROD, CAD WELD BELOW GRADE
- GROUND TESTED AT 5 OHMS OR LESS.
- #2 GROUND AND BOND WIRE
- GROUND 2' MIN FROM POLE.
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3" AND AT EACH END, UNLESS OTHERWISE NOTED.

## GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUBS SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

## TYPICAL R.O.W. POLE CONSTRUCTION NOTES

- CABLE NOT TO IMPEDE 15' CLEAR SPACE OFF POLE FACE.
- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
- NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
- ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMBERS TO BE FILLED.
- 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
- USE 90° CONNECTOR AT CABLE CONNECTION FOR OMNI DOWN ANTENNAS.
- USE CABLE CLAMPS TO SECURE CABLE TO ARMS, PLACE 2" T-MOBILE CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
- USE 1/2" DIA. CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
- FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

## ABBREVIATIONS

A	AMPERE	HT	HEIGHT
AB	ANCHOR BOLT	ICB	ISOLATED COPPER GROUND BUSS
ABY	ABOVE	IN, (I)	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
ADD	ADDITIONAL	LB, (L)	POUNDS
AFF	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET (FOOT)
AFC	AMPERE INTERRUPTING CAPACITY	LTH	LENGTH
ALUM	ALUMINUM	LTL	LONGITUDINAL
ALT	ALTERNATE	LP5	LOW PRESSURE SODIUM
ANT	ANTENNA	MAS	MASONRY
APPROX	APPROXIMATELY	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MB	MACHINE BOLT
AWG	AMERICAN WIRE GAUGE	MCH	MECHANICAL
BATT	BATTERY	MFR	MANUFACTURER
BD	BOARD	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLC	BLOCK	MN	MAIN LUGS ONLY
BULDG	BUILDING	MNTD	MOUNTED
BM	BEAM	MNTG	MOUNTING
BN	BOUNDARY NAILING	MTL	METAL
BRK	BREAKER	MTS	MANUAL TRANSFER SWITCH
BRKR	BREAKER	N	NEUTRAL
BTOW	BARE TINNED COPPER WIRE	NI	NEW
BTS	BASE TRANSMISSION SYSTEM	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BOF	BOTTOM OF FOOTING	NO, (N)	NUMBER
BU	BACK-UP CABINET	NTS	NOT TO SCALE
C	CONDUIT	OH	OVERHEAD
CAB	CABINET	OC	ON CENTER
CANT	CANTILEVERED	OPNG	OPENING
CB	CIRCUIT BREAKER	P	POLE
CP	CAST IN PLACE	PCC	PRECAST CONCRETE
CR	CIRCUIT	PCS	PERSONAL COMMUNICATION SERVICES
CLG	CEILING	PH	PHASE
CLR	CLEAR	PLY	PLYWOOD
CO	COLUMN	PNLD	PANELBOARD
CONC	CONCRETE	PFC	POWER PROTECTION CABINET
CONN	CONNECTION(OR)	PFR	PRIMARY RADIO CABINET
CONST	CONSTRUCTION	PPF	POUNDS PER SQUARE FOOT
CONT	CONTINUED	PSI	POUNDS PER SQUARE INCH
J	JUNNY (NAILS)	PT	PRESSURE TREATED
DBL	DOUBLE	PWR	POWER (CABINET)
DEM	DEMAND	QTY	QUANTITY
DEPT	DEPARTMENT	RAD, (R)	RADIUS
DF	DOUGLAS FIR	RCP	RECEPTACLE
DM	DIMETER	RFS	SOFT DRAWN BARE COPPER
DIA	DIAGONAL	REIN	REINFORCEMENT(ING)
DIM	DIMENSION	REQD	REQUIRED
DWG	DRAWINGS	RIGD	RIGID GALVANIZED STEEL
DWL	DOWELS	SAF	SAFETY
EA	EACH	SCH	SCHEDULE
EGR	EMERGENCY GENERATOR RECEPTACLE	SEC	SECONDARY
EL	ELEVATION	SEC	SECONDARY
ELEC	ELECTRICAL	SHT	SHEET
ELEV	ELEVATOR	SIM	SIMILAR
EMT	ELECTRICAL METALLIC TUBING	SN	SOLID NEUTRAL
EN	EDGE NAIL	SPEC	SPECIFICATIONS
ENCL	ENCLOSURE	SQ	SQUARE
ENGR	ENGINEER	SS	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
EXST, (D)	EXISTING	STR	STRUCTURAL
EXP	EXPANSION	SURF	SURFACE
EXT	EXTERIOR	SW	SWITCH
FAB	FABRICATION(OR)	TEL	TELEPHONE
FAC	FACTOR	TEMP	TEMPORARY
FA	FIRE ALARM	THICK	THICKNESS
FF	FINISH FLOOR	TK	TIE NAIL
FG	FINISH GRADE	TOA	TOP OF ANTENNA
FIN	FINISHED	TOC	TOP OF CURB
FLR	FLOOR	TOP	TOP OF FOUNDATION
FLUR	FLUORESCENT	TOP	TOP OF PLATE (PARAPET)
FM	FOUNDATION	TOP	TOP OF STEEL
FOM	FACE OF CONCRETE	TOW	TOP OF WALL
FOS	FACE OF STUD	TP	TYPICAL
FOW	FACE OF WALL	UG	UNDER GROUND
FT, (F)	FINISH SURFACE	UL	UNDERWRITERS LABORATORY INC.
FT, (D)	FOOT (FEET)	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	VOL	VOLT
FU	FUSE	VAC	VOLTS ALTERNATING CURRENT
G	GROUND	VIF	VERIFY IN FIELD
GR	GROUND (CABINET)	W	WAIT OR WIRE
GA	GALVANIZED	WD	WIDTH
GEN	GENERATOR	WID	WIDTH
GALV	GALVANIZED	WTH	WITH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WOOD	WOOD
GLB	GLUE LAMINATED BEAM	WTR	WEATHERPROOF
GND	GROUND	WTR	WEATHERPROOF
GPS	GLOBAL POSITIONING SYSTEM	XFR	TRANSFER
GRD	GROUND	XTRM	TRANSFER
HDC	HARD DRAWN COPPER WIRE	C	CENTERLINE
HDG	HOT-DIP GALVANIZED	E	PLATE
HDR	HEADER		
HGR	HANGER		
HPS	HIGH PRESSURE SODIUM		



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33 PINE LN  
LOS ALTOS, CA 94022

## ISSUE STATUS

△	DATE	DESCRIPTION
	06/08/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.

CHECKED BY: T. D'CARLO

APPROVED BY: B. McCOMB

DATE: 07/25/19

SHEET TITLE:

## GENERAL NOTES, LEGEND, & ABBREVIATIONS

SHEET NUMBER

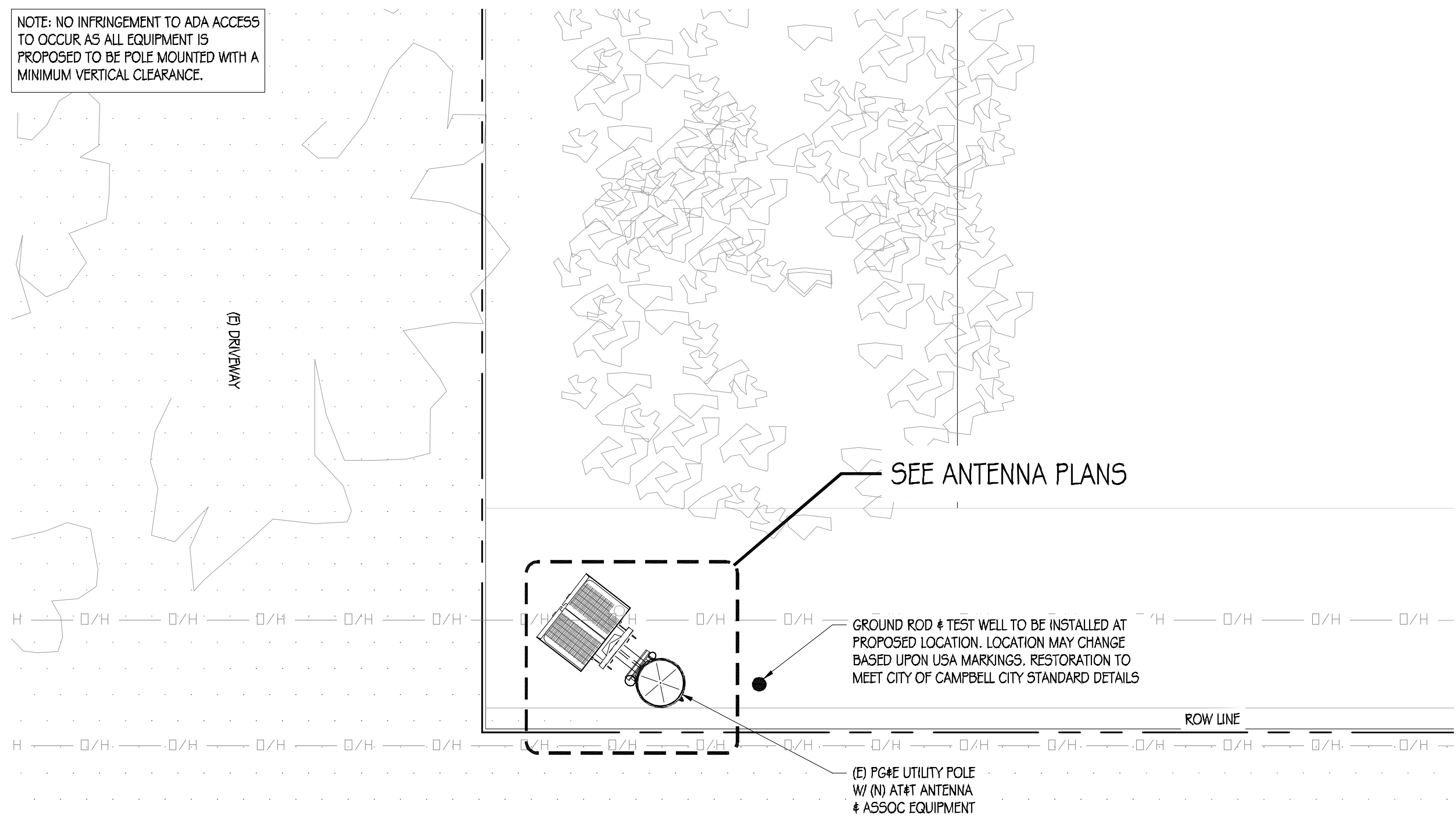
T-2



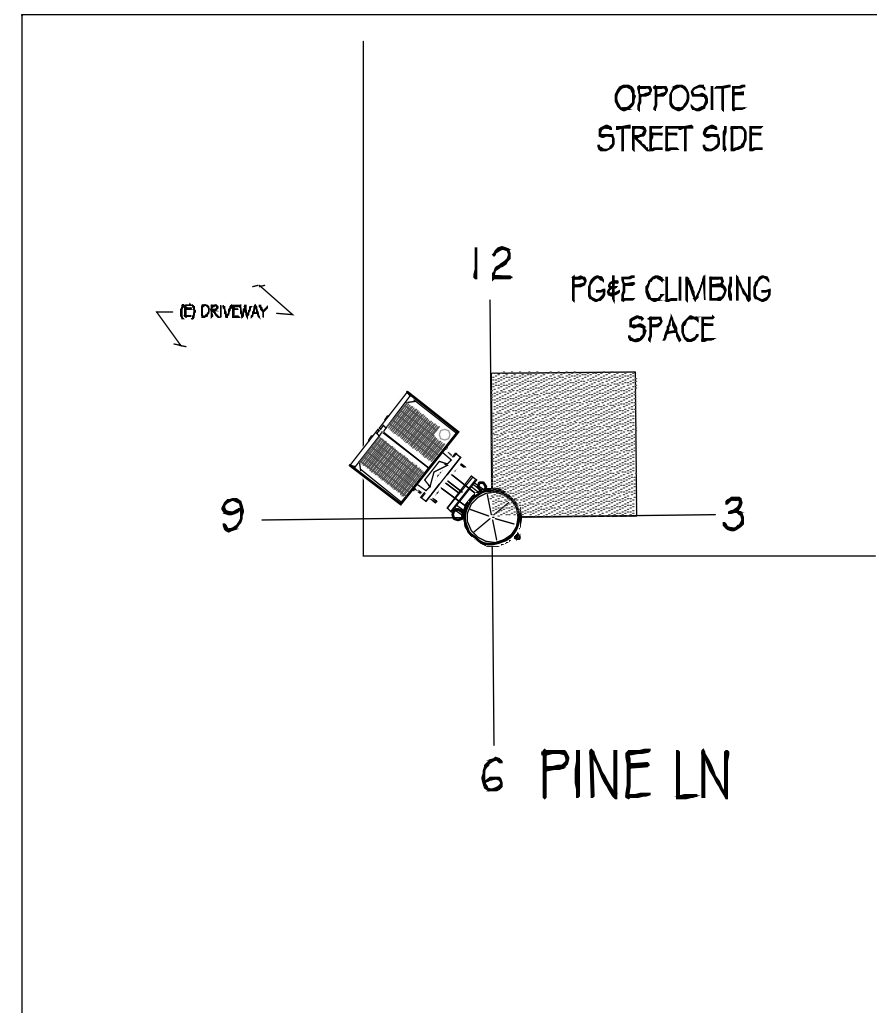




NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.

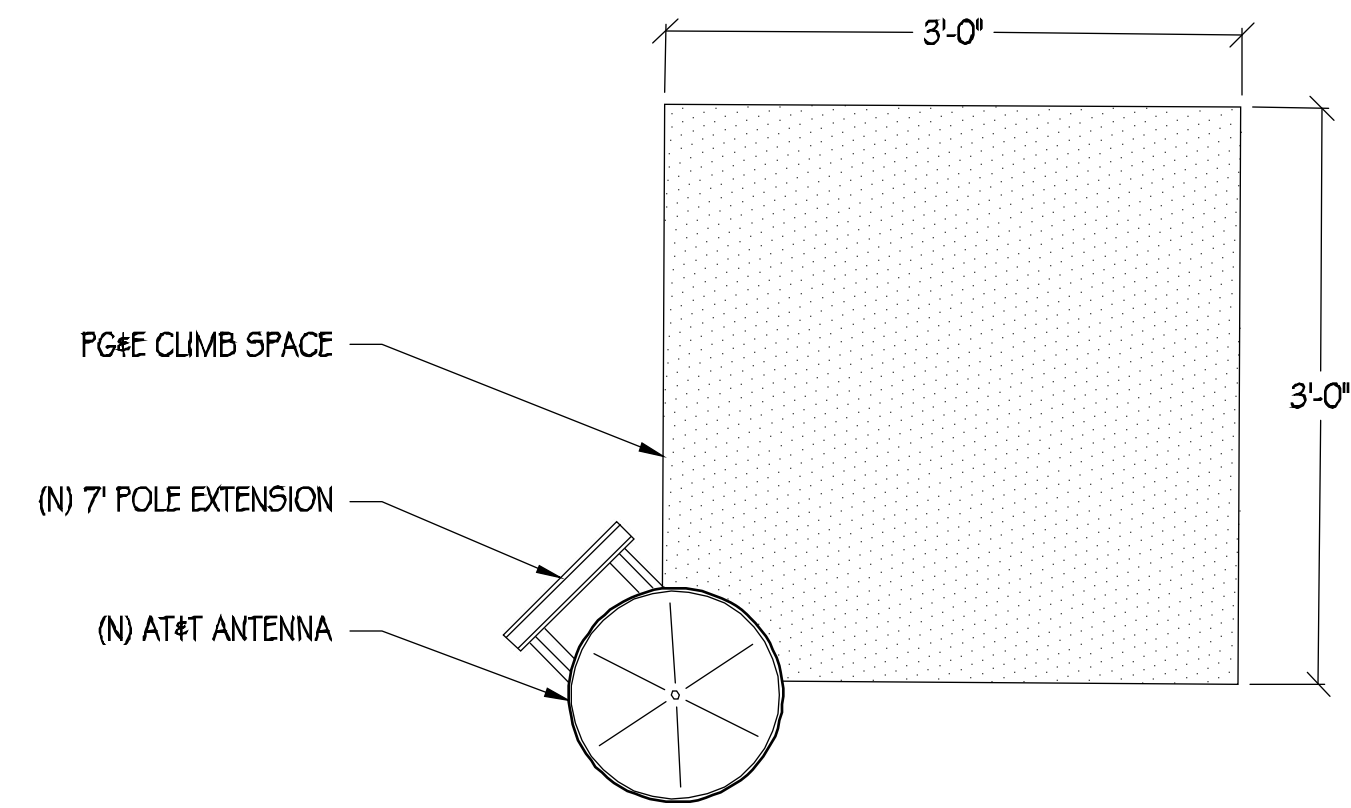


PINE LN

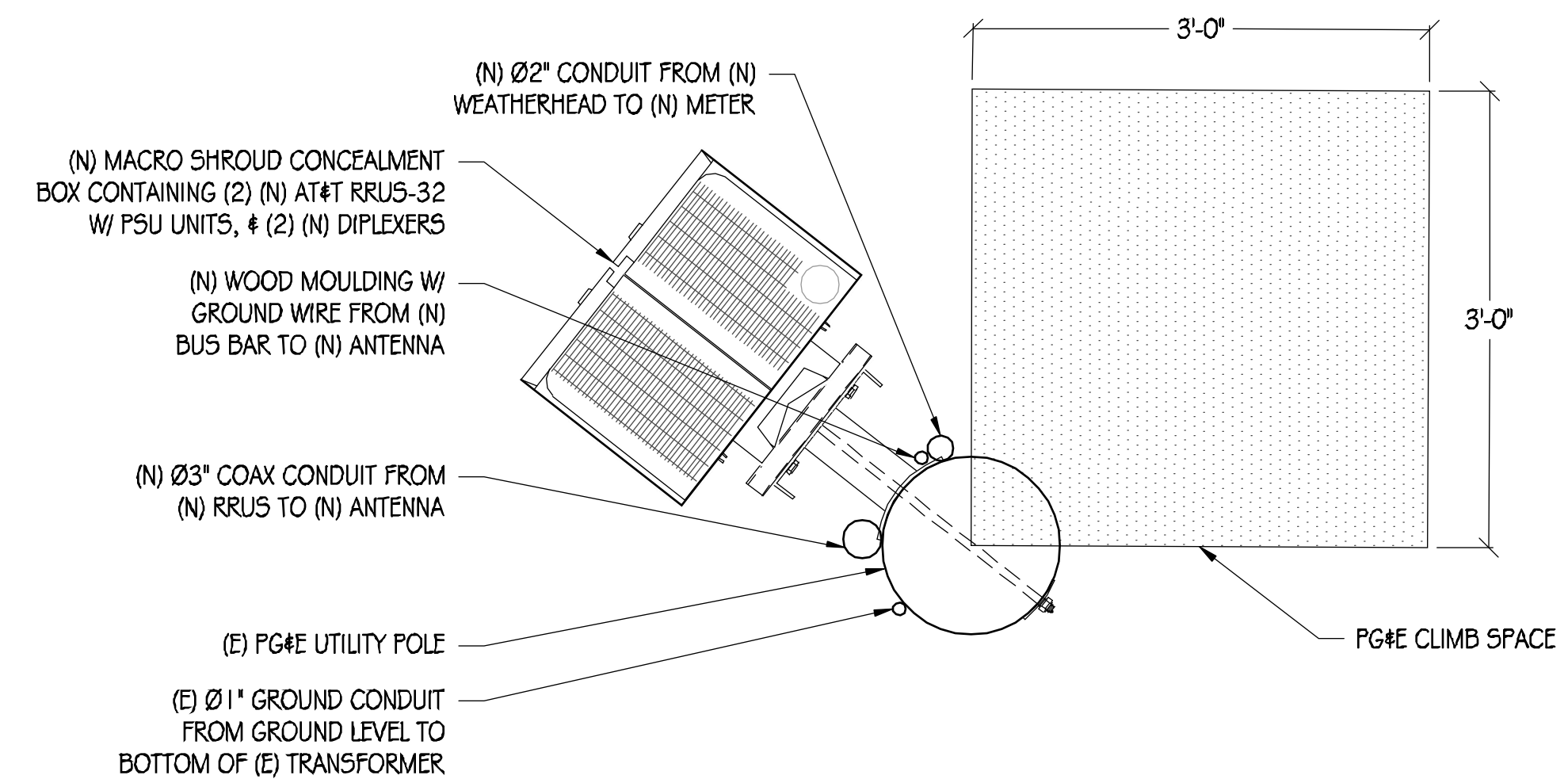


**EQUIPMENT PLAN**  
1/2" = 1'

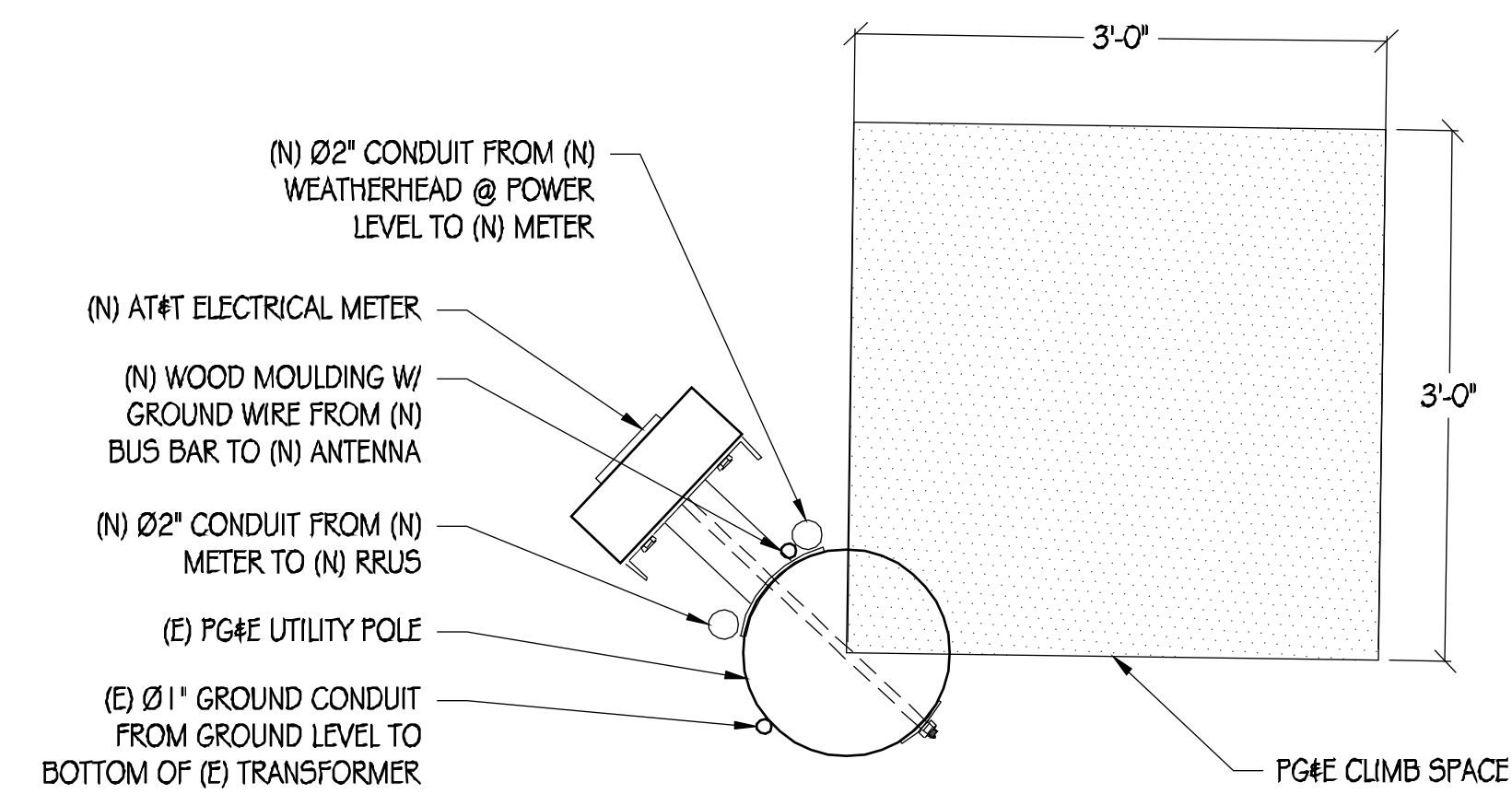
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



**ANTENNA PLAN**  
1" = 1'



**RRU PLAN**  
1" = 1'



**ELECTRICAL METER PLAN**  
1" = 1'



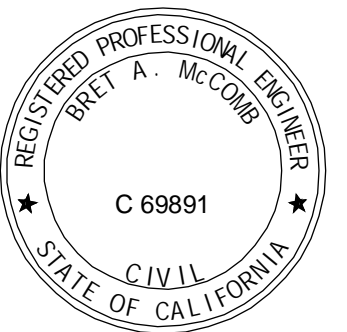
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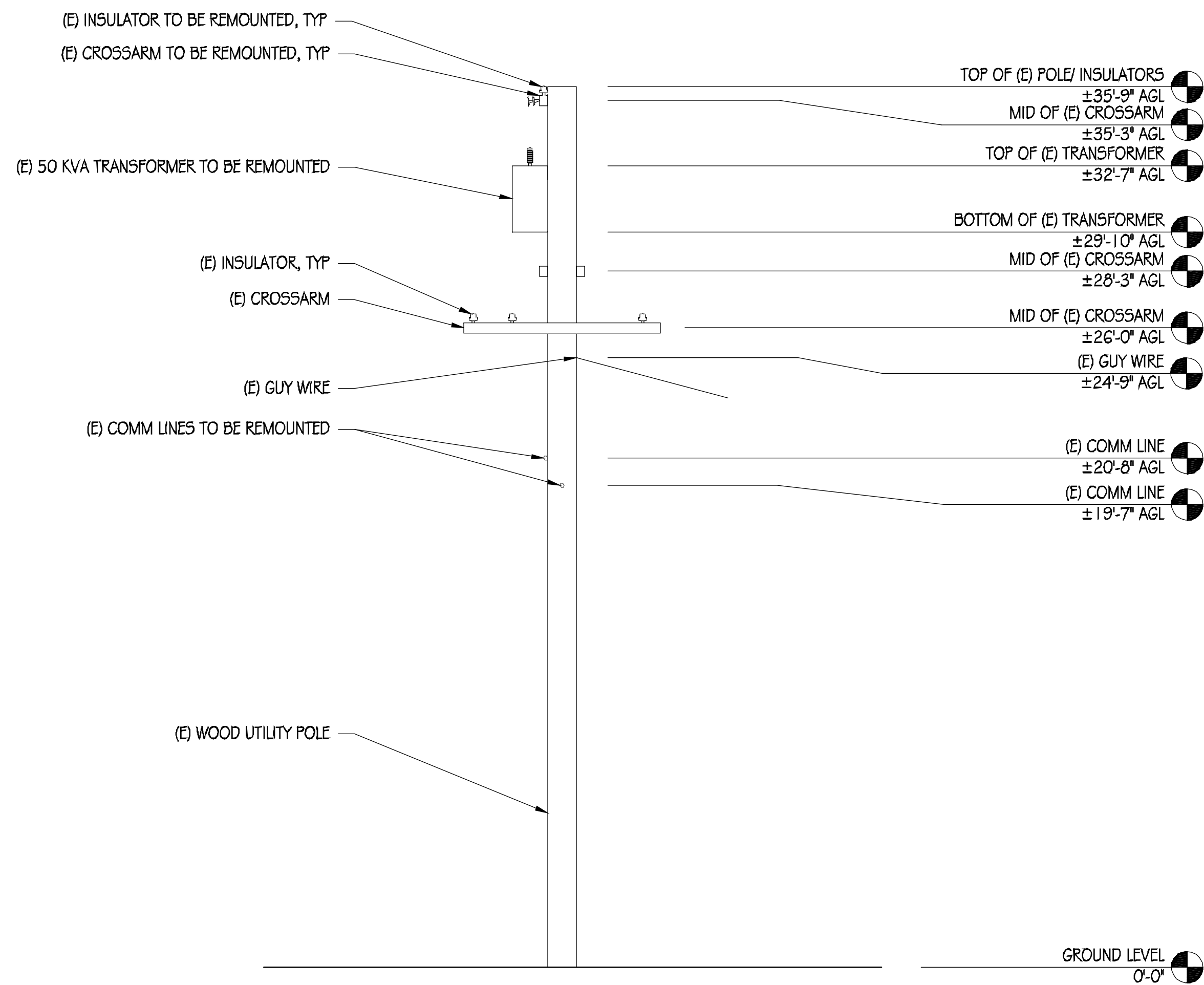
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EQUIPMENT PLAN #  
ANTENNA PLANS

SHEET NUMBER

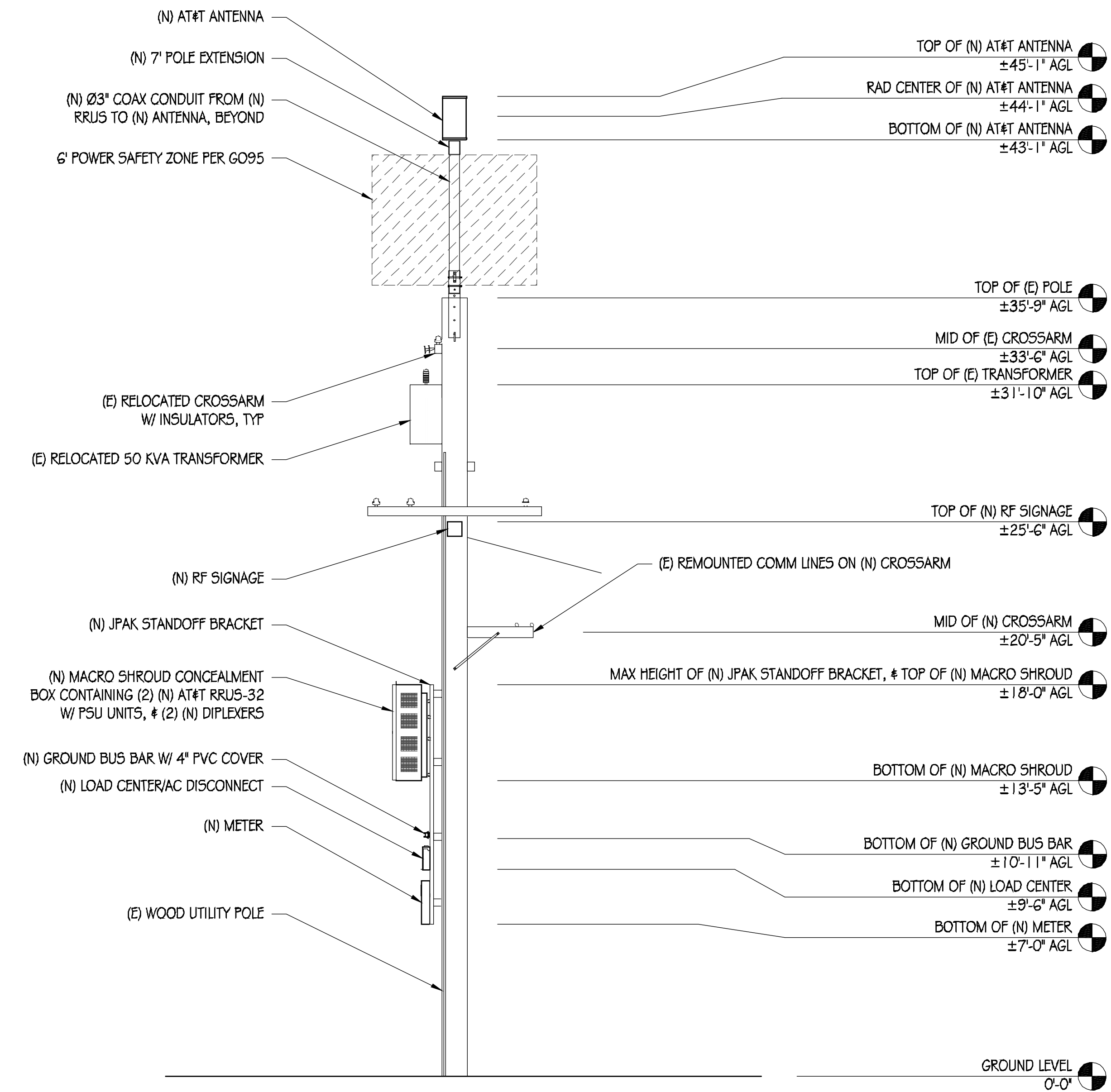
**A-2**

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



### EXISTING SOUTH ELEVATION

1/4" = 1'-0"



### NEW SOUTH ELEVATION

1/4" = 1'-0"



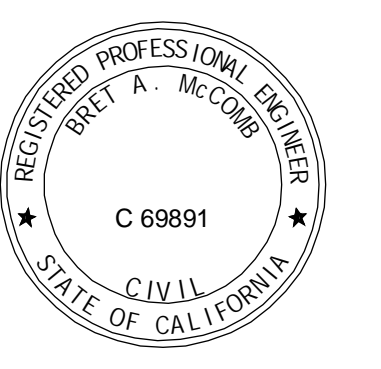
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SHEET TITLE:

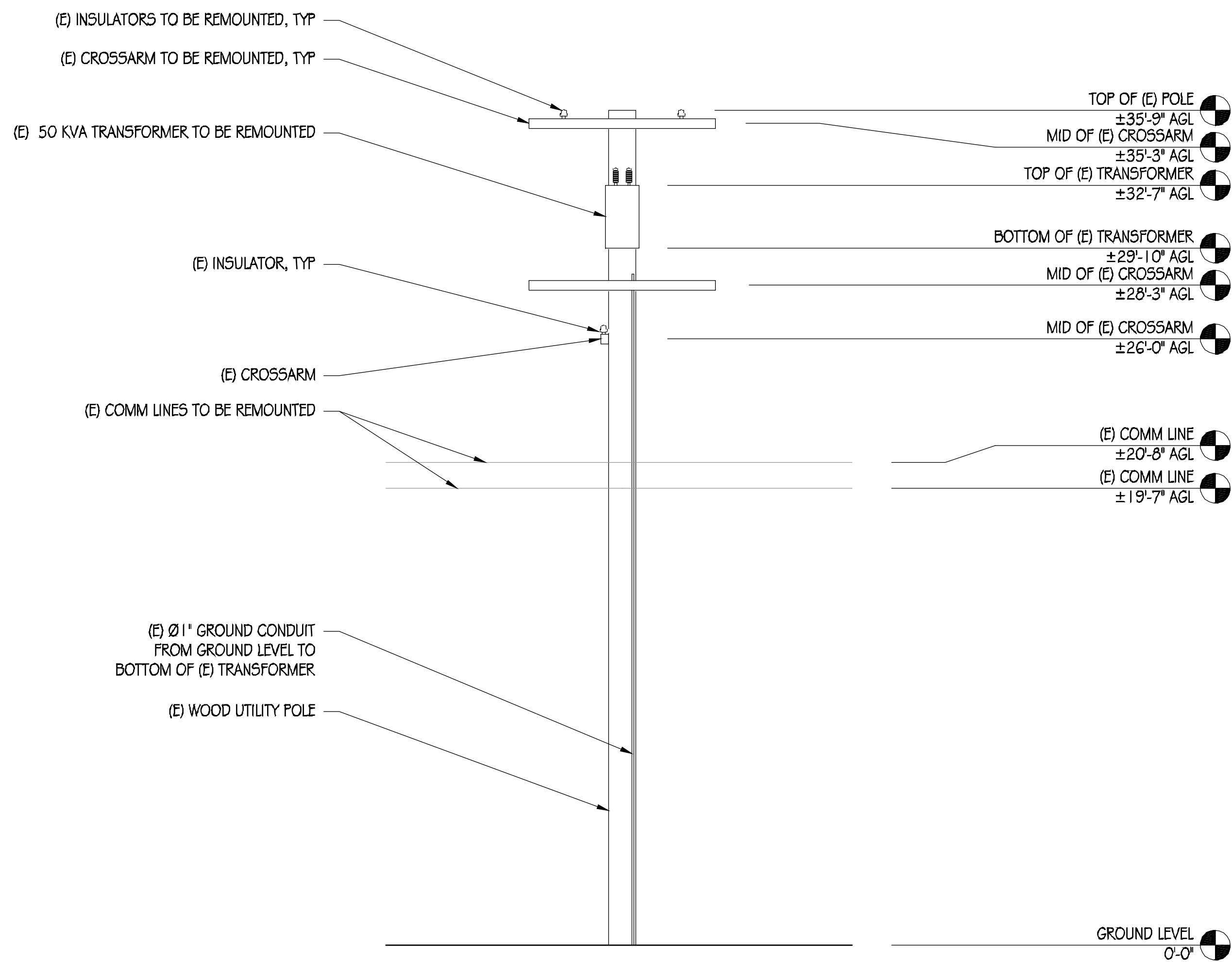
ELEVATIONS

SHEET NUMBER

A-3

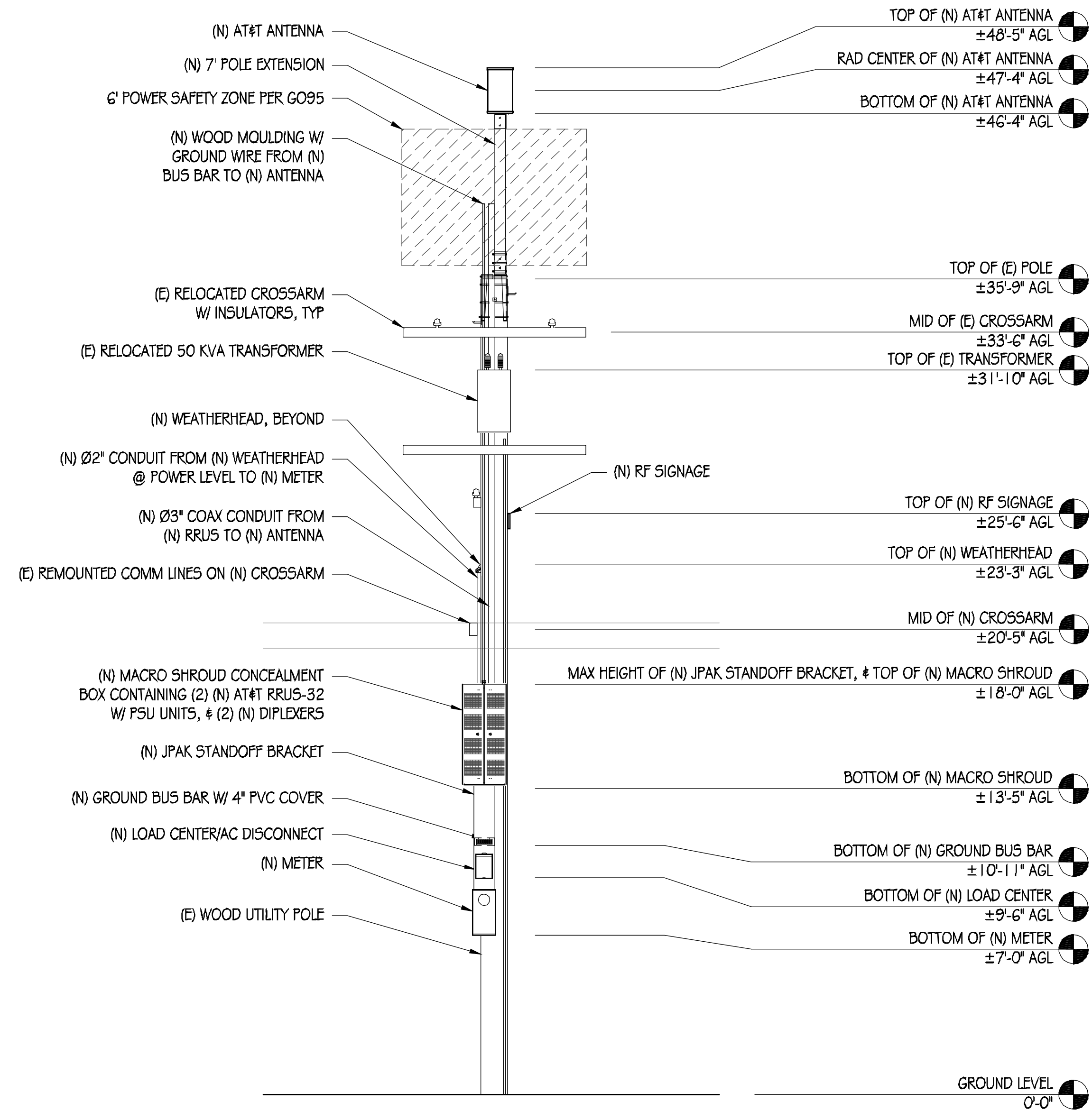


NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



### EXISTING WEST ELEVATION

1/4" = 1'-0"



### NEW WEST ELEVATION

1/4" = 1'-0"



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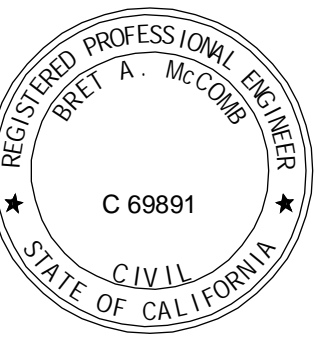


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DATE: 07/25/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-4

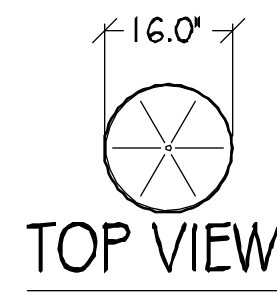


**POLE-TOP EXTENSION NOTES:**

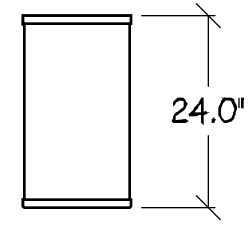
1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT 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

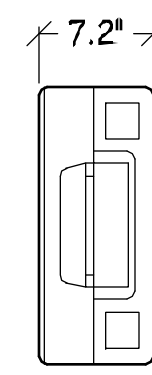


FRONT VIEW

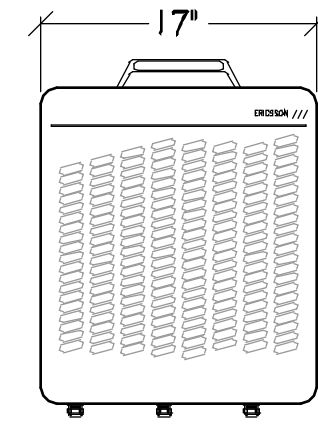
1 ANTENNA  
1/2"=1"

**ERICSSON RRUS-11**

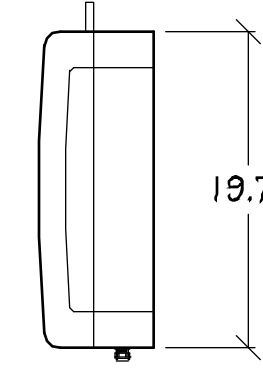
TOTAL WEIGHT: 55 LBS  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

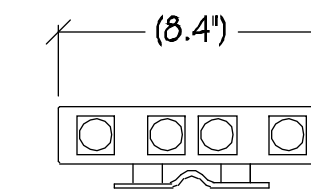


SIDE VIEW

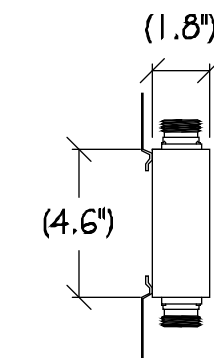
2 RRUS-11 DETAIL  
1"=1"

**COMMSCOPE CBC1923T-4310/ E11F13P06**

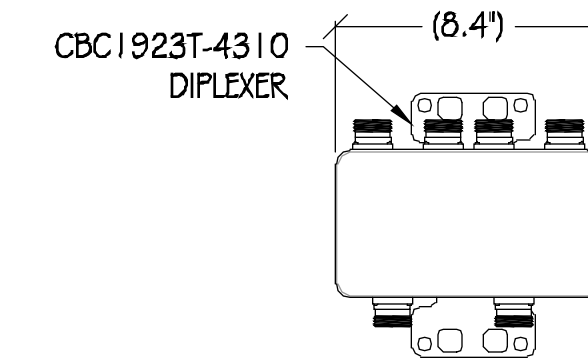
COLOR: GRAY  
 TOTAL WEIGHT: +/- 4.4 LB  
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

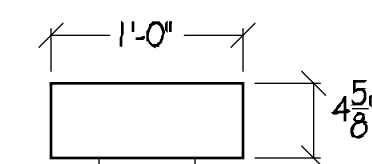


SIDE VIEW

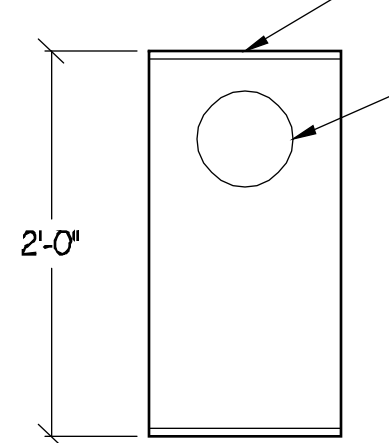


FRONT VIEW

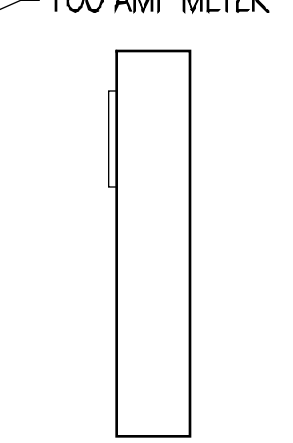
3 DIPLEXER DETAIL  
1"=6"



TOP VIEW



FRONT VIEW



SIDE VIEW

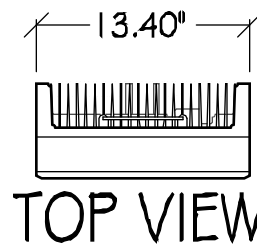
4 METER DETAIL  
1"=1"

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

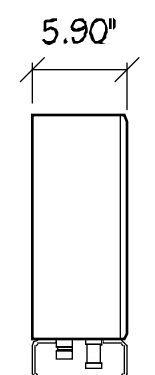
100 AMP METER

**ERICSSON RRUS-4415**

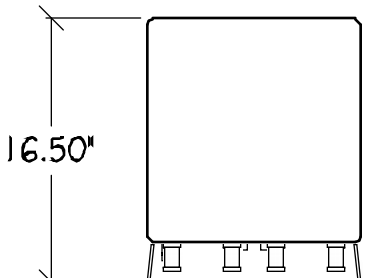
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

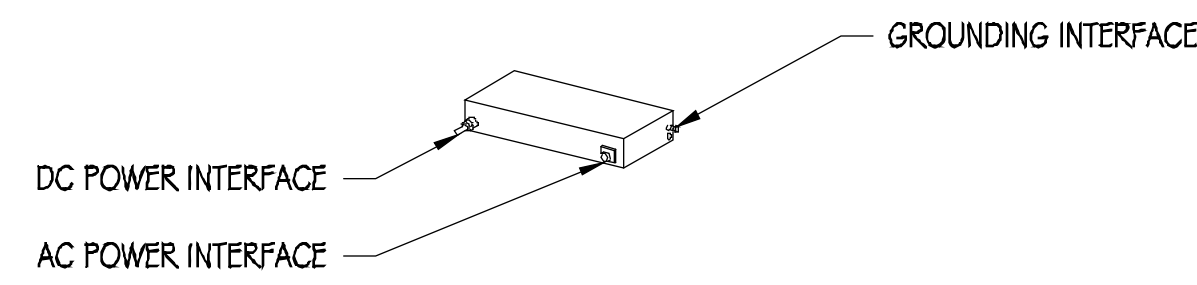


FRONT VIEW

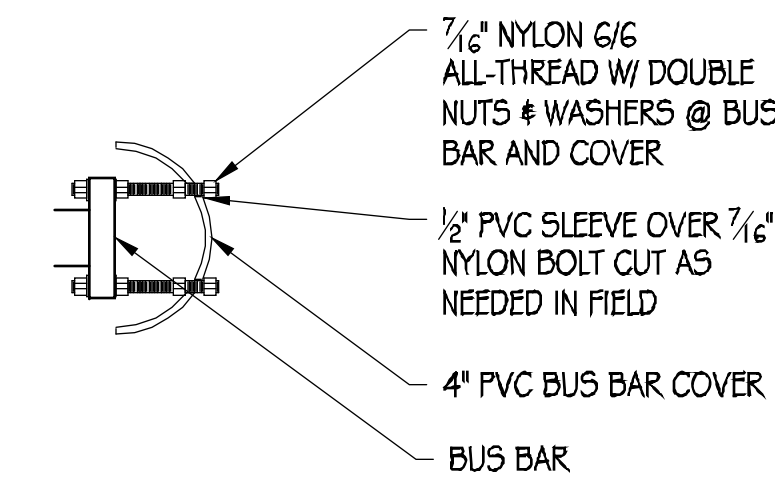
5 RRUS-4415 DETAIL  
1"=1"

**ERICSSON PSU AC 08**

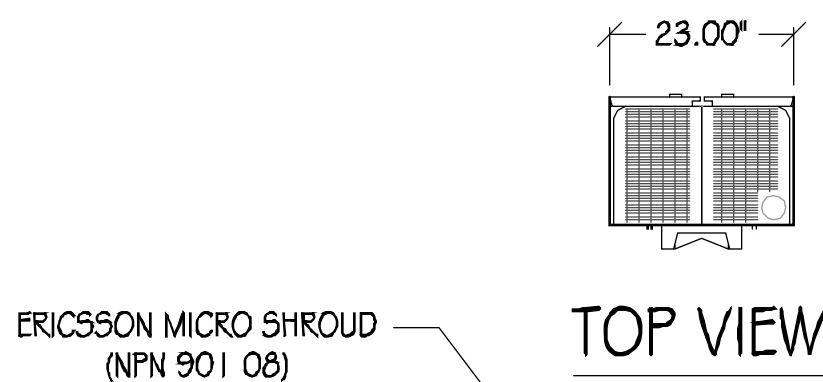
DIMENSIONS: 2.72" X 10.79" X 7.09"  
 WEIGHT: 11.46 LBS



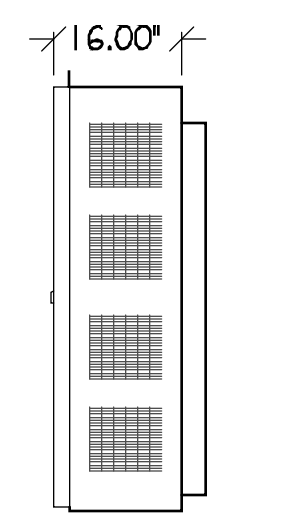
6 AC POWER MODULE  
NTS



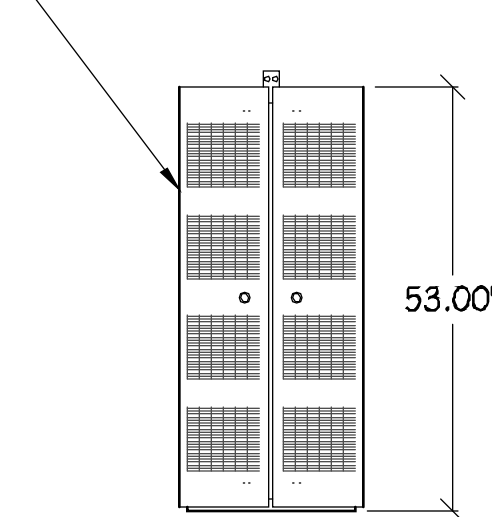
7 BUS BAR COVER  
6"=1"



TOP VIEW

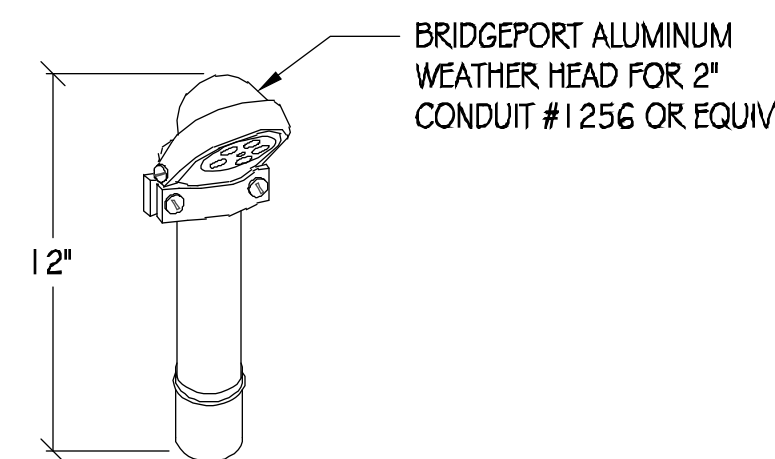


SIDE VIEW



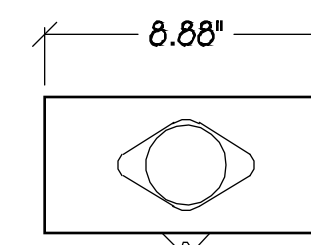
FRONT VIEW

8 MICRO SHROUD CONCEALMENT  
1/2"=1"

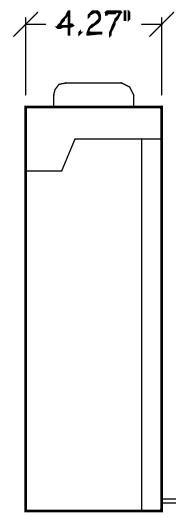


9 WEATHER HEAD  
NTS

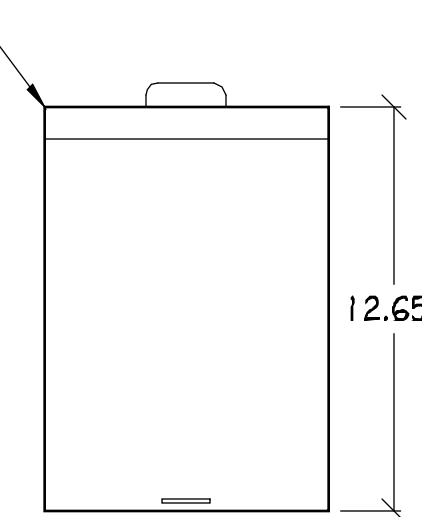
SCHNEIDER ELECTRIC Q0612L100RB



TOP VIEW

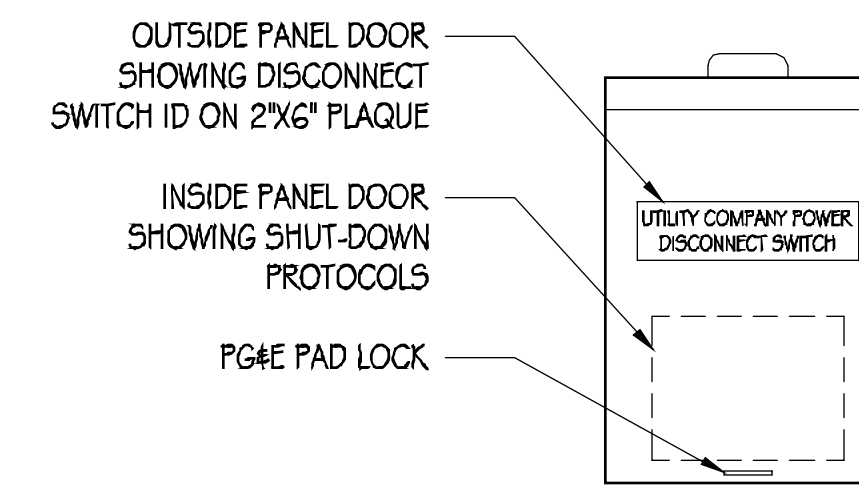


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT  
1"=6"



11 DISCONNECT SIGNAGE  
3"=1"

**SHUTDOWN DISCONNECT**

**NORMAL SHUT-DOWN 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 3\"/>



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SHEET TITLE:

DETAILS

SHEET NUMBER

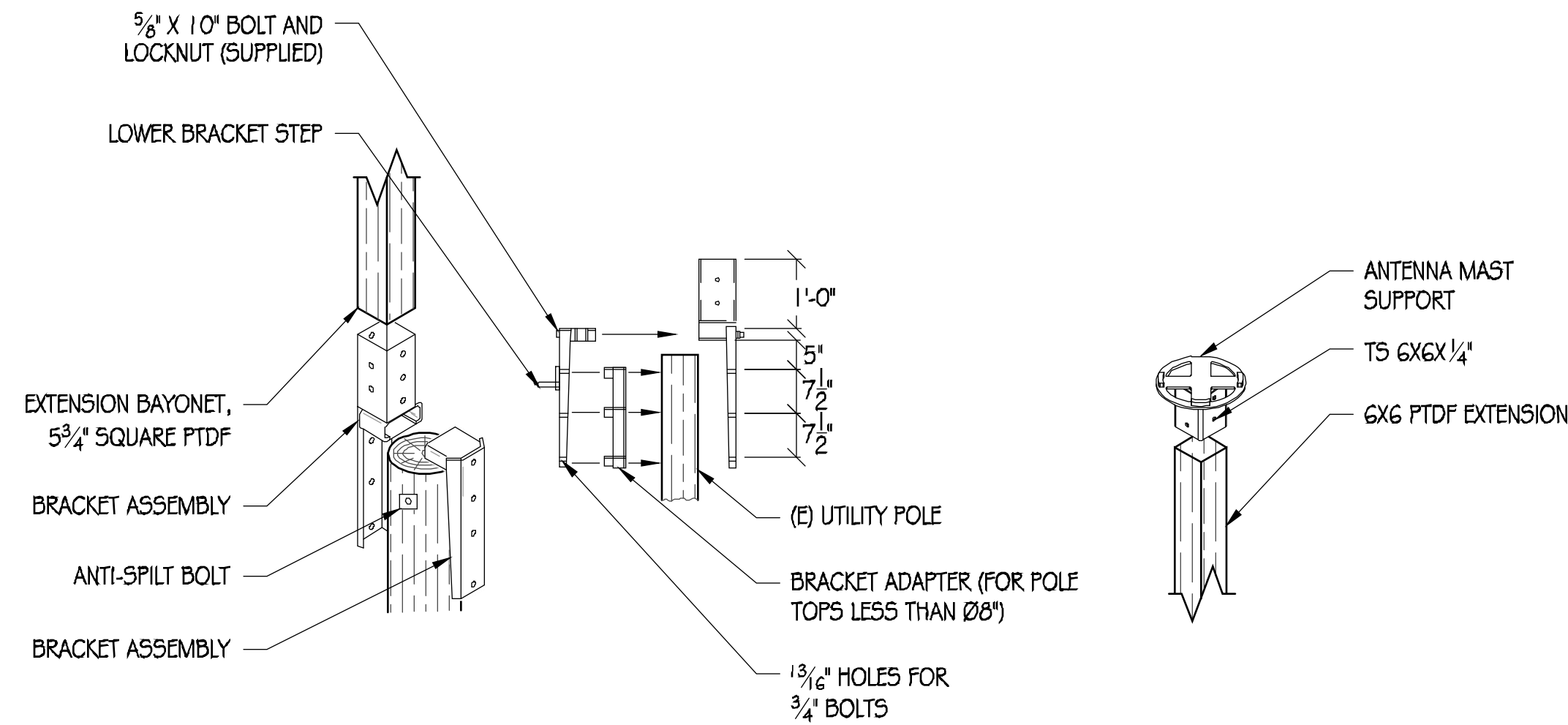
A-5

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<sub>y</sub>=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS5) SHALL BE ASTM A500 GRADE B (F<sub>y</sub>=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F<sub>y</sub>=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'

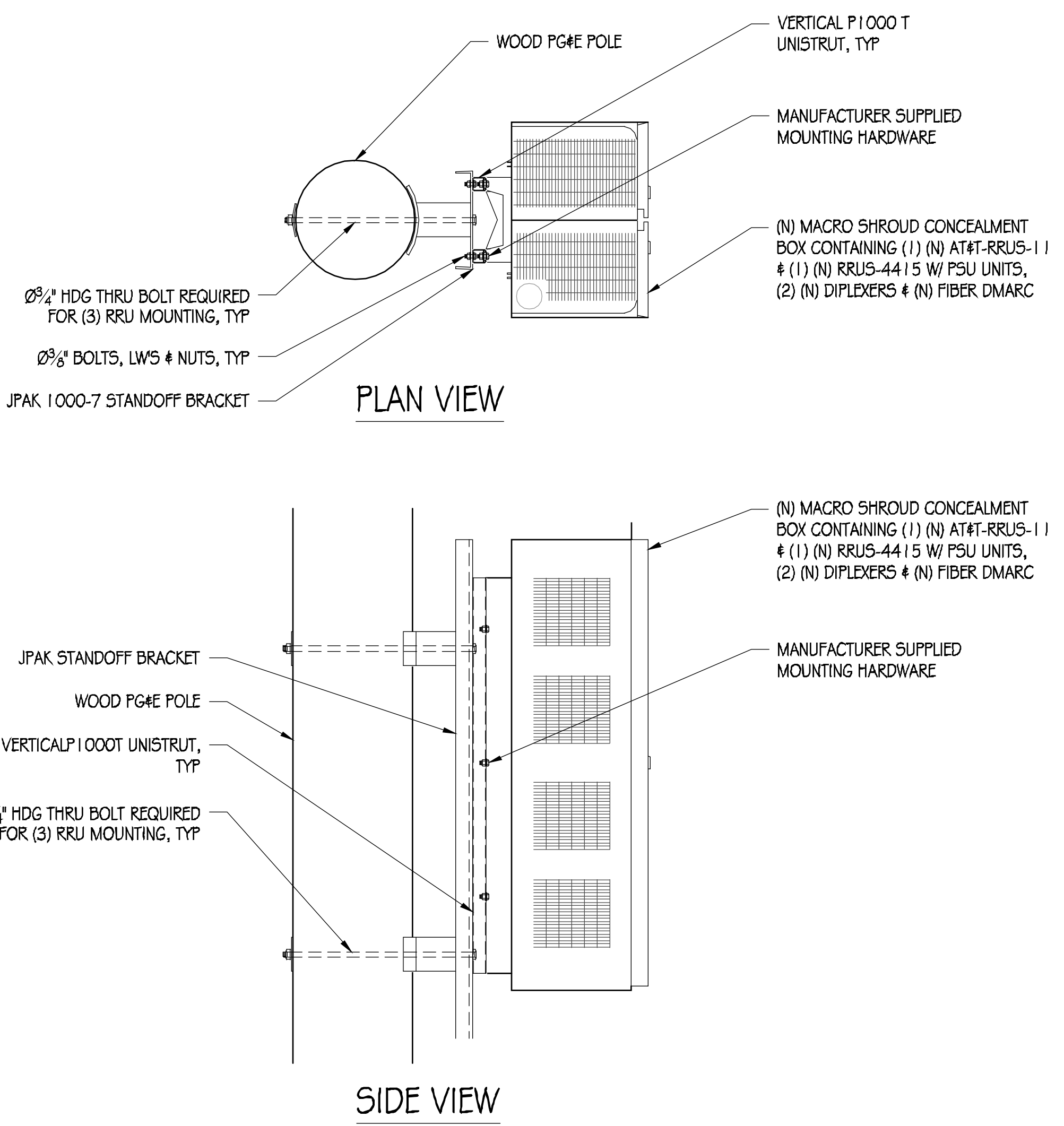
**NOTICE**

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 \_\_\_\_\_

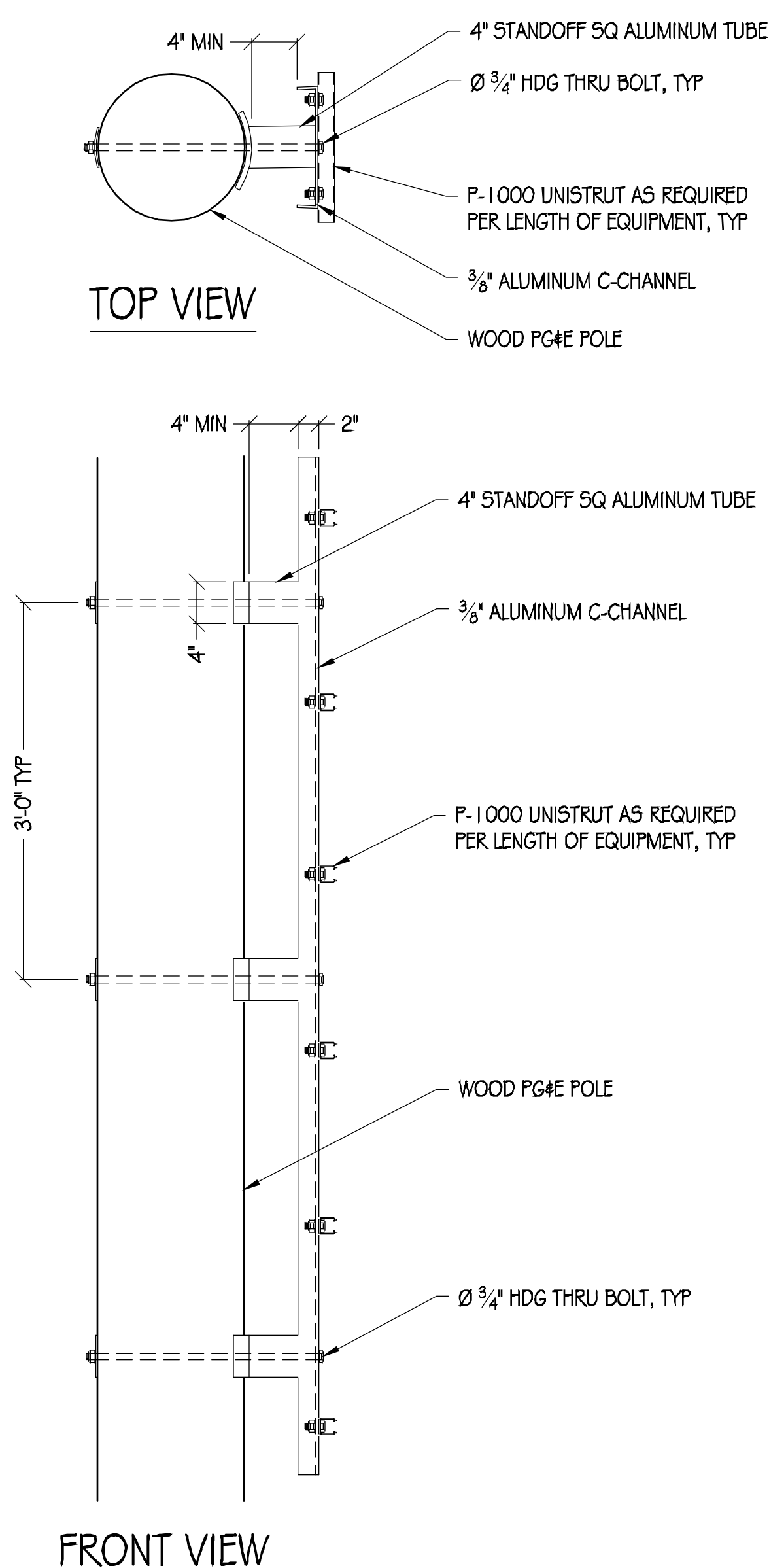
12.25" X 12.25" NOTICE DECAL BLUE DECAL

**2 NOTICE SIGNAGE**  
NTS

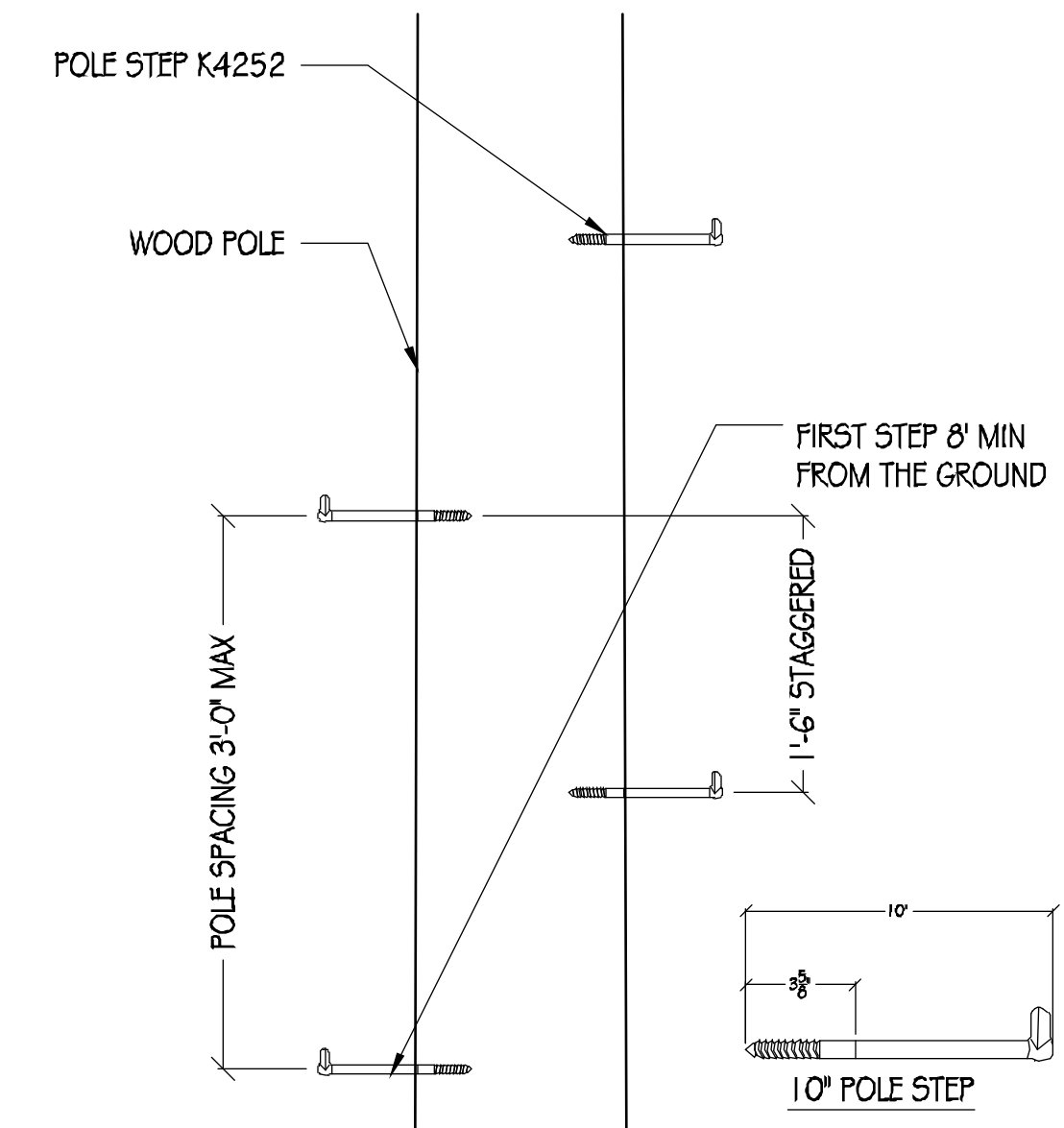
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
  - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA



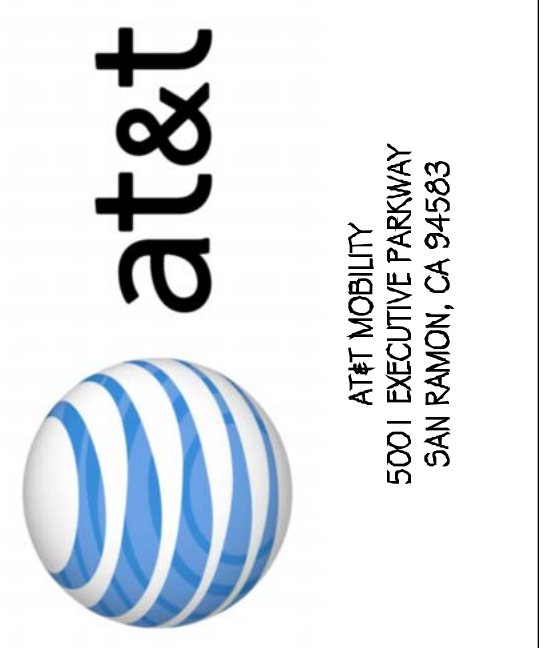
**3 RRU MOUNTING DETAIL**  
1" = 1'



**4 JPAK STANDOFF DETAIL**  
1" = 1'



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



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



CRAN\_RSFR\_LOSAO\_04  
33 PINE LN  
LOS ALTOS, CA 94022

**ISSUE STATUS**

△	DATE	DESCRIPTION
	06/08/18	CD 90%
	07/25/19	CD 100%

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

SHEET TITLE: DETAILS  
SHEET NUMBER: A-6

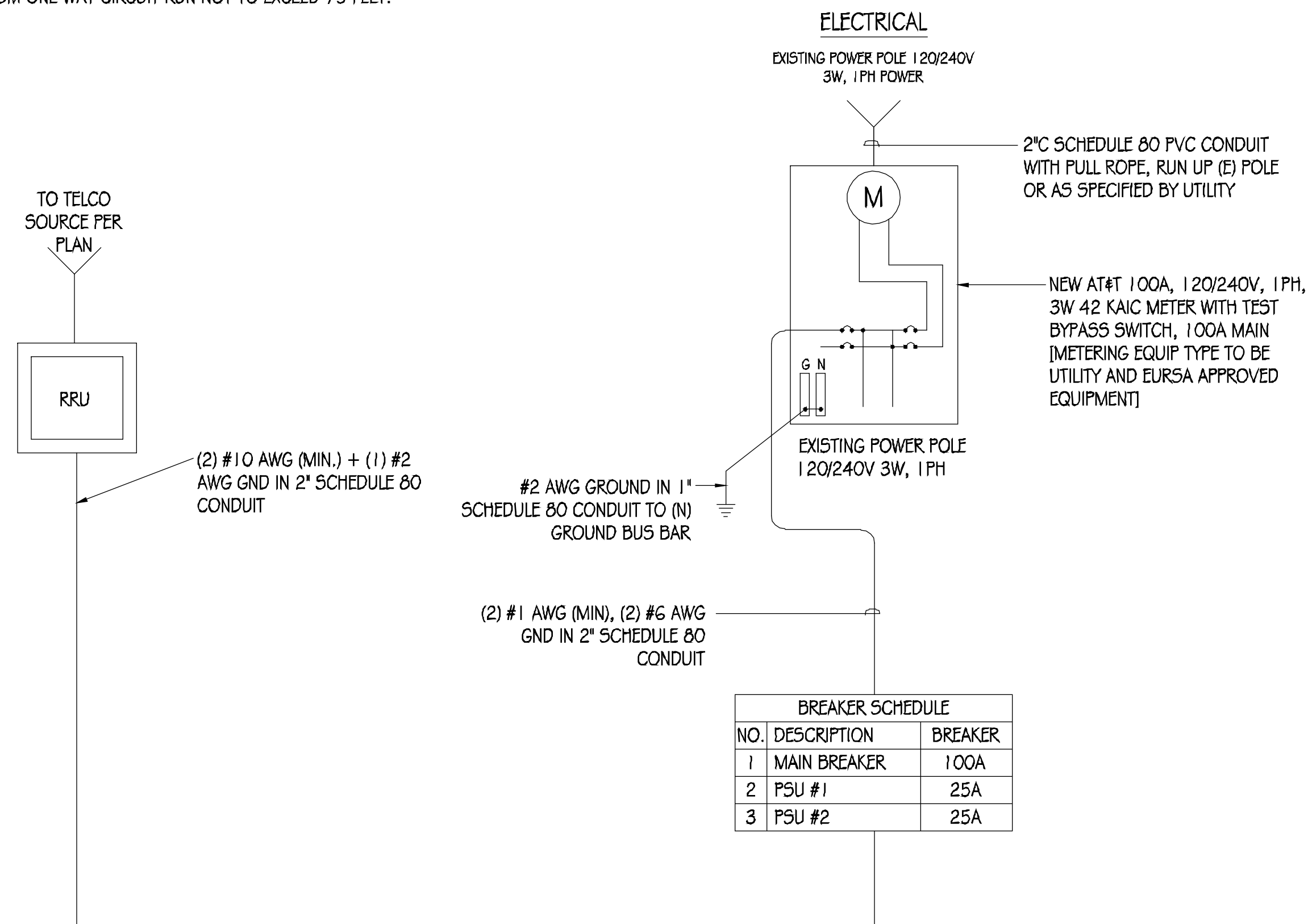


**GENERAL ELECTRICAL NOTES:**

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:**

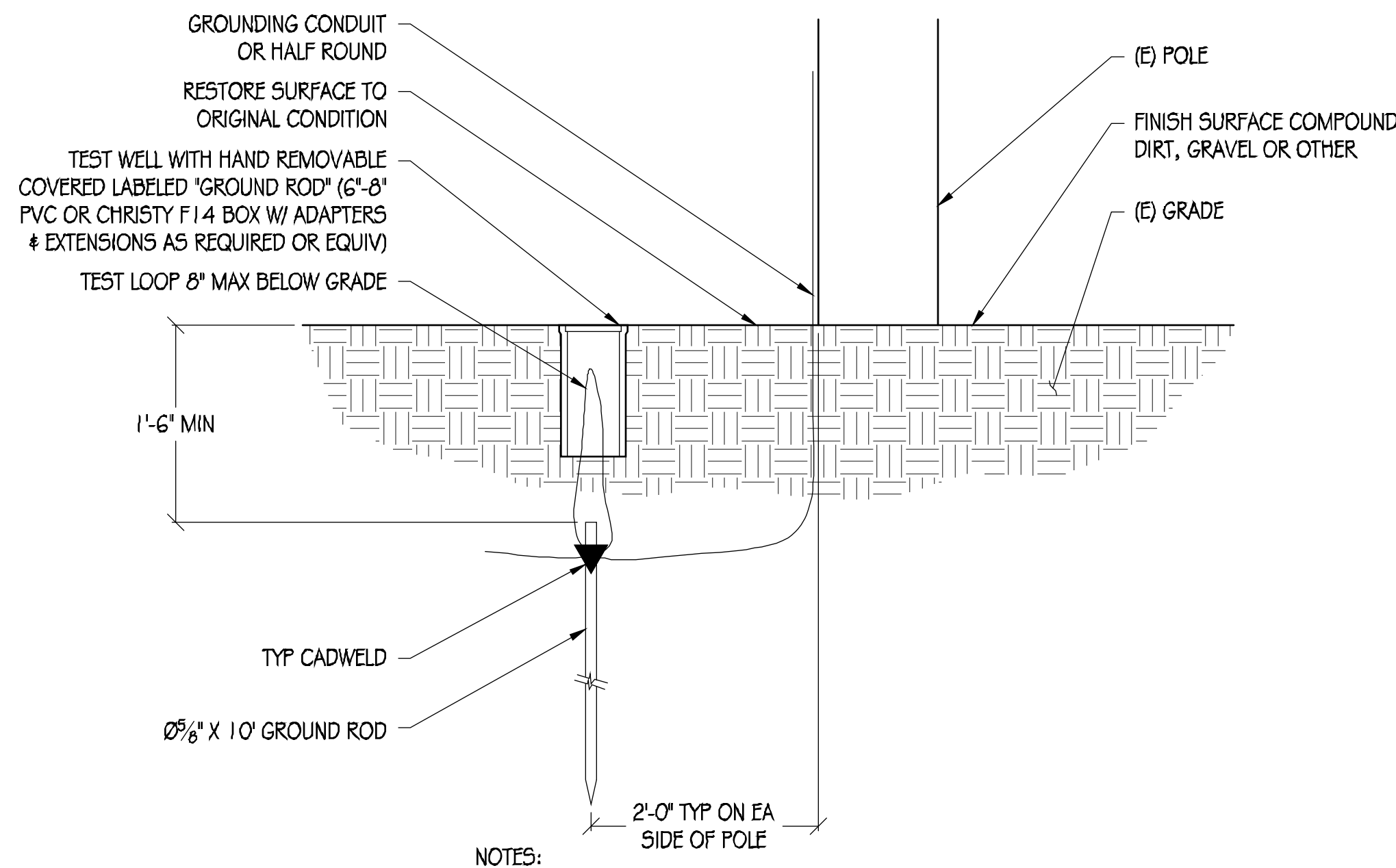
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE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



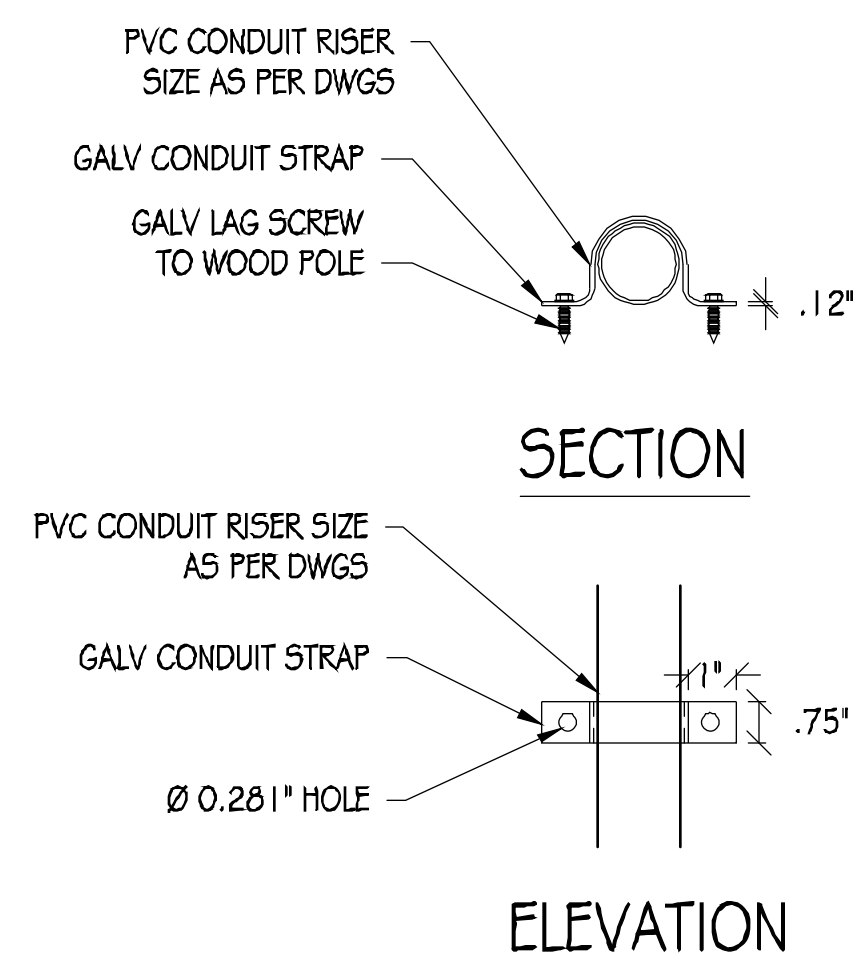
**SINGLE-LINE DIAGRAM**

**LOAD SCHEDULE**

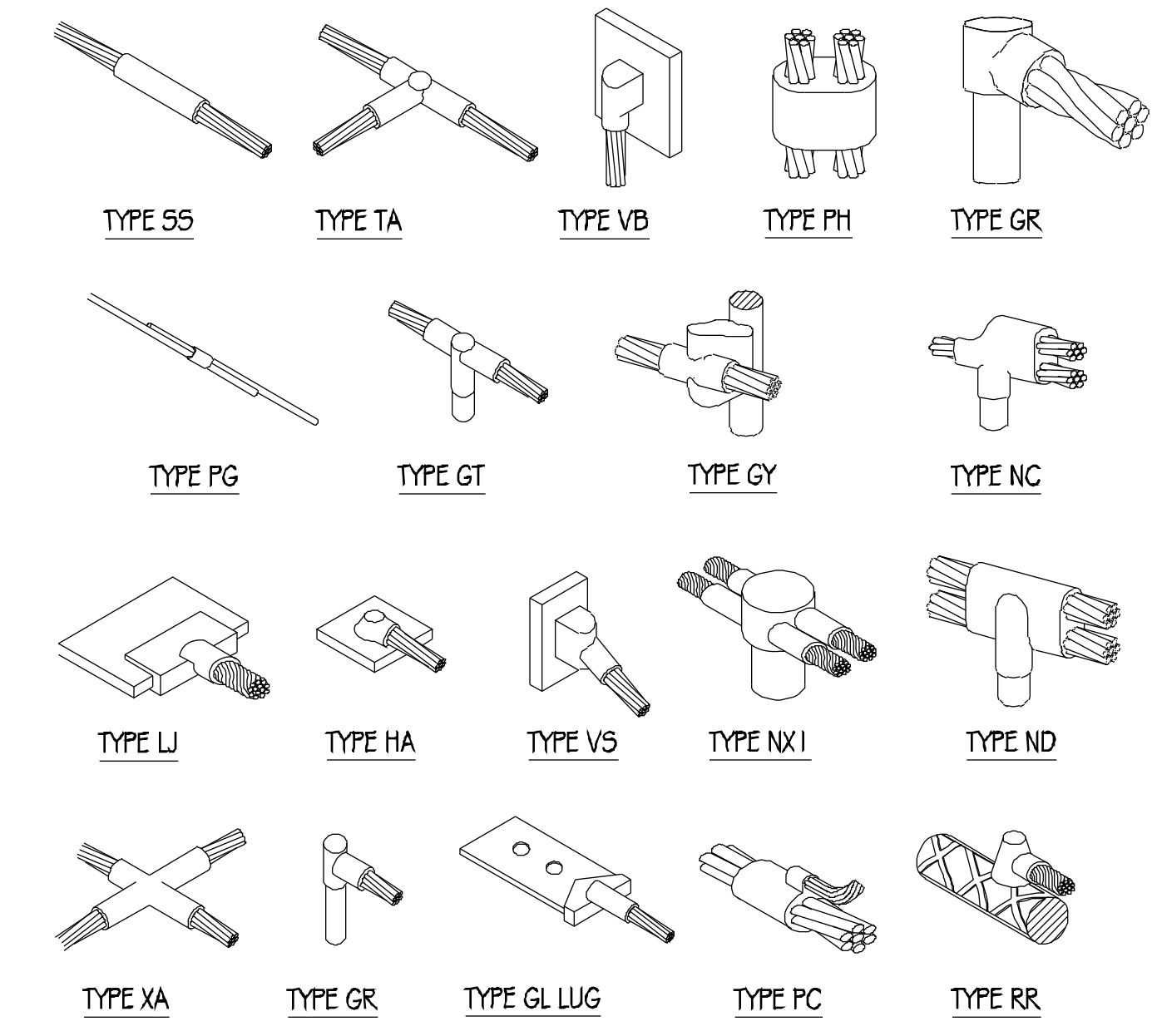
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	HW
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A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



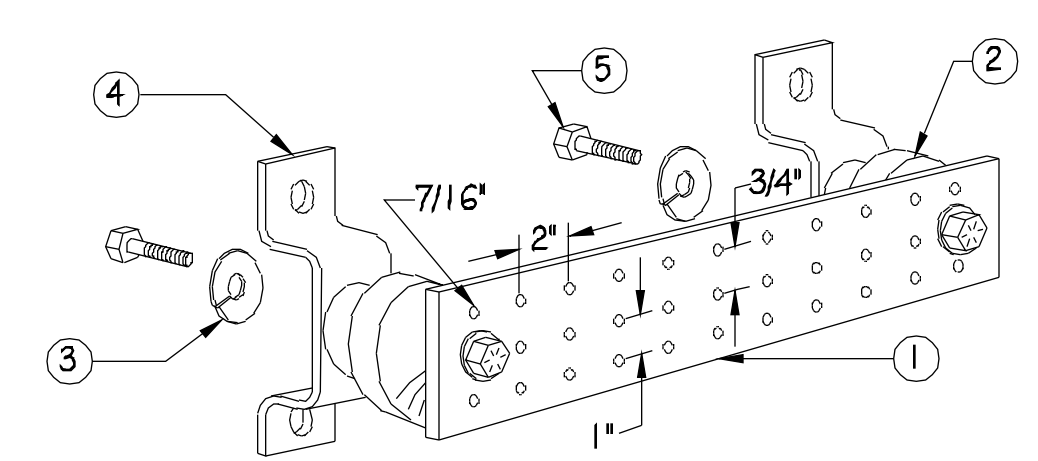
**1** NTS  
**POLE GROUNDING DETAIL**



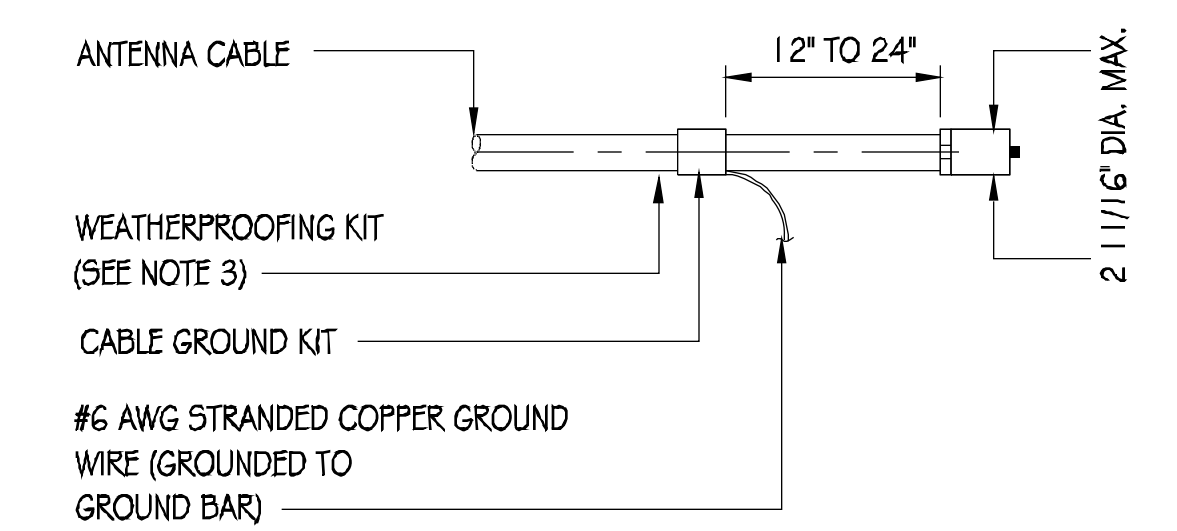
**2** NTS  
**CONDUIT RISER DETAIL**



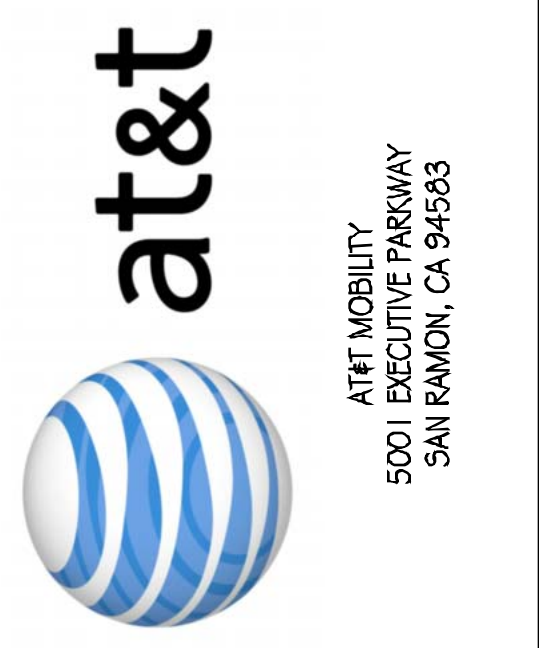
**3** NTS  
**EXOTHERMIC WELD DETAILS**



**4** NTS  
**GROUND BAR DETAIL**



**5** NTS  
**GND KIT DETAIL**



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CRAN\_RSFR\_LOSAO\_04  
 33 PINE LN  
 LOS ALTOS, CA 94022

**ISSUE STATUS**

△	DATE	DESCRIPTION
	06/08/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T.J. / B.L.  
 CHECKED BY: T. DICARLO  
 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

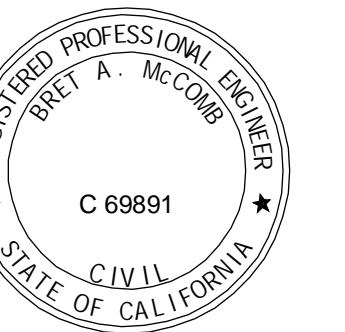


36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

PRECISION DESIGN  
Drafting, INC.

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

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33 PINE LN  
LOS ALTOS, CA 94022

ISSUE STATUS

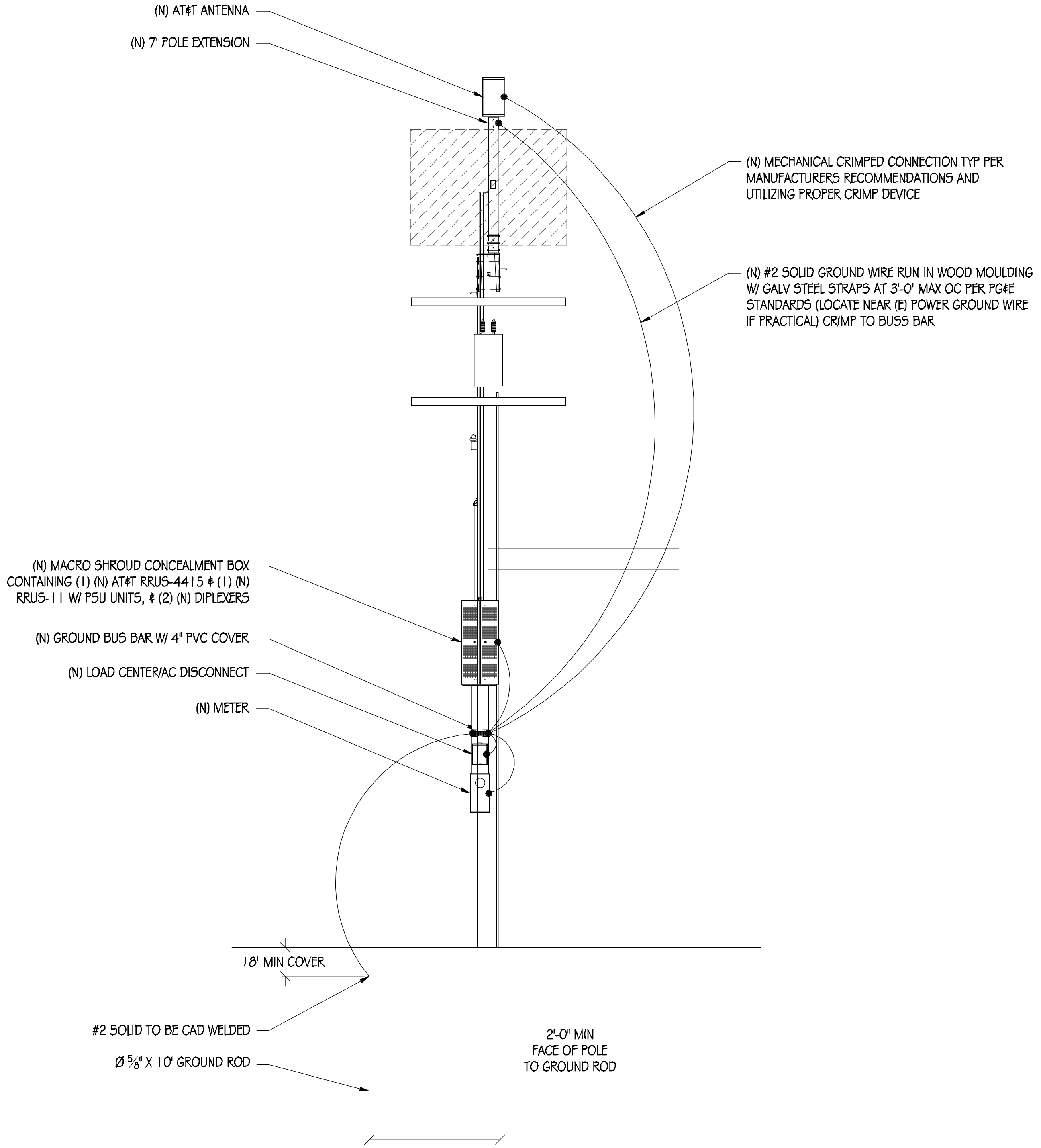
△	DATE	DESCRIPTION
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	07/25/19	CD 100%

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

GROUNDING DIAGRAMS

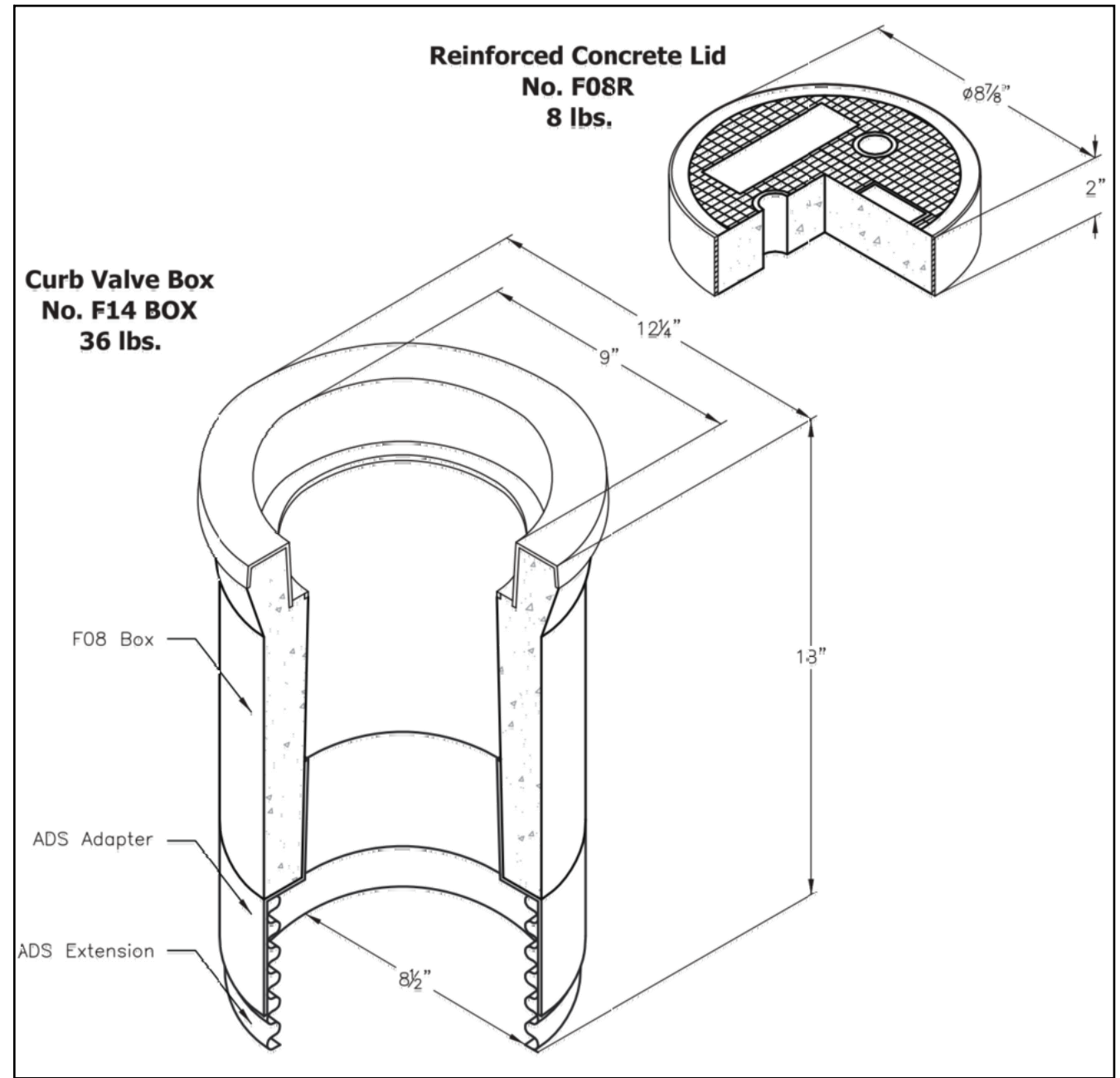
SHEET NUMBER

E-2



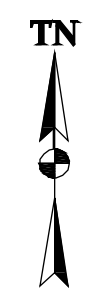
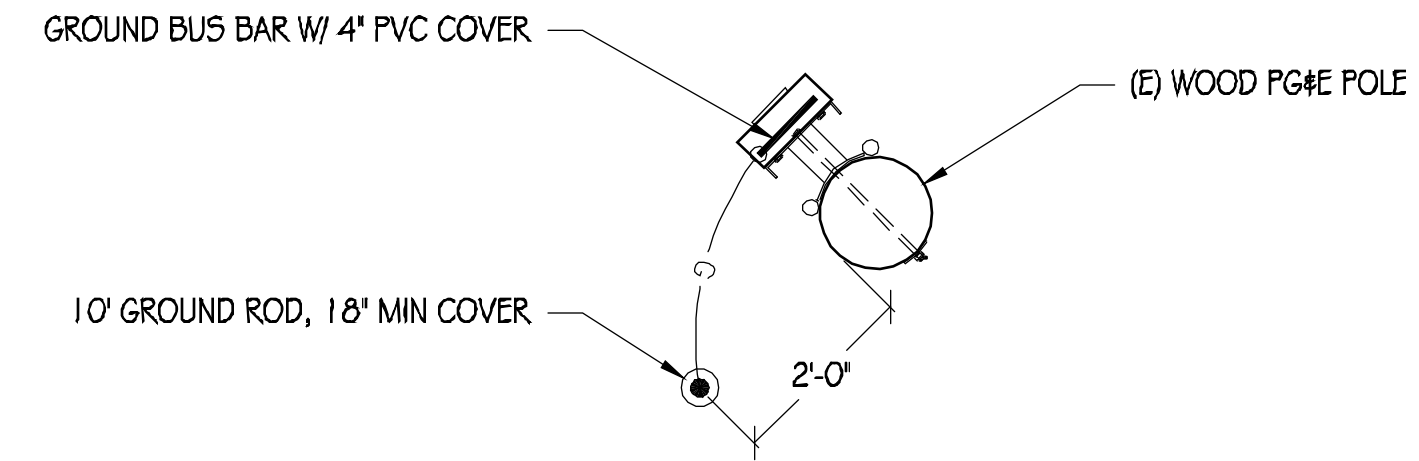
POLE GROUNDING DIAGRAM

NT5



TEST WELL DETAIL

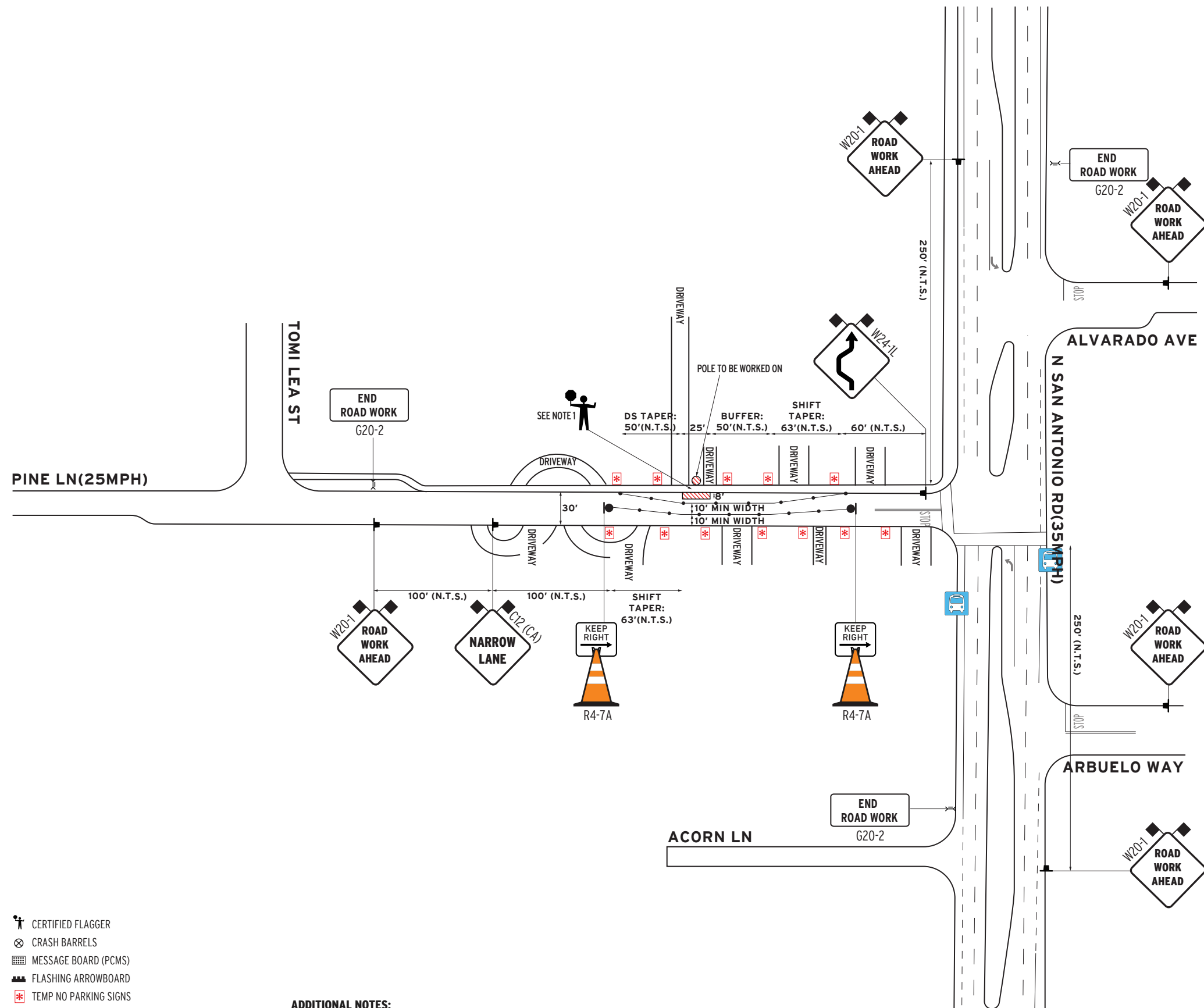
NT5



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.
2. ASSIST RESIDENTS WITH IN/OUT ACCESS TO DRIVEWAYS ALONG THE CLOSURE WHEN SAFE TO DO SO.
3. DISTANCE BETWEEN W24-1L AND SHIFT TAPER ADJUSTED IN ORDER TO KEEP SIGN ON PINE LN SO TO NOT IMPACT OR CONFUSE TRAFFIC ON N SAN ANTONIO RD.

⊗ \*POST TEMPORARY NO PARKING SIGN ON TYPE 1 BARRICADE 72 HRS IN ADVANCED.  
 NOTE: Please contact B.A.T.S 72 hrs in advance in case if we are to install "TEMPORARY NO PARKING" signs.

**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:  
**33 PINE LN  
LOS ALTOS**

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

DATE COMPLTD: **6-25-19**

JOB#: **LOSA0\_04**

PAGE#: **1/1**

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

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 33 Pine Lane, 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  
Name/Title                      Agent

SureSite 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 33 Pine Lane

37.3922600, -122.1150700

1 167-23-016  
MINYOUNG & KIM HYUNJEONG PARK  
611 TOMI LEA ST  
LOS ALTOS CA 94022

2 167-23-017  
ROBERT B DAVIS  
625 TOMI LEA ST  
LOS ALTOS CA 94022

3 167-23-034  
TONY LEE & FENG YIJIONG WERNER  
23 PINE LN  
LOS ALTOS CA 94022

4 167-23-035  
LEONARD K PON  
33 PINE LN  
LOS ALTOS CA 94022

5 167-23-037  
BENJAMIN HAO  
1703 OCTAVIA ST  
SAN FRANCISCO CA 94109

5 167-23-037  
OCCUPANT  
51 PINE LN  
LOS ALTOS CA 94022

6 167-23-038  
JAROSLAV & EMANUELA VA'VRA  
67 PINE LN  
LOS ALTOS CA 94022

7 167-23-093  
RAMNEEK & SINGHEE PRIYAMVADA  
GUPTA  
640 N SAN ANTONIO RD  
LOS ALTOS CA 94022

8 167-23-094  
YUK MING & LAI YU-MIEN KWOK  
11 PINE LN  
LOS ALTOS CA 94022

9 167-23-095  
IRA FELDMAN  
35 PINE LN  
LOS ALTOS CA 94022

10 167-23-096  
THOMAS W & BARBARA D MCCARTHY  
39 PINE LN  
LOS ALTOS CA 94022

11 167-23-104  
ANAHITA AALAMI  
1080 MORENO AVE  
PALO ALTO CA 94303

11 167-23-104  
OCCUPANT  
652 N SAN ANTONIO RD  
LOS ALTOS CA 94022

12 167-23-105  
DAVID KRAUS  
654 N SAN ANTONIO RD  
LOS ALTOS CA 94022

13 167-23-115  
HAL A & NANCY LONHART  
660 N SAN ANTONIO RD  
LOS ALTOS CA 94022

14 167-28-019  
PAUL A & CATHARINE H ZANDER  
86 PINE LN  
LOS ALTOS CA 94022

15 167-28-020  
JUNWEI & ZHANG HAIJING BAO  
68 PINE LN  
LOS ALTOS CA 94022

16 167-28-021  
DAPHNE & WU GUOPING SANG  
56 PINE LN  
LOS ALTOS CA 94022

17 167-28-022  
PINE FIFTY LLC  
50 PINE LN  
LOS ALTOS CA 94022

18 167-28-027  
NEAL G ANDERSEN  
552 SHOREBIRD CIR #1102  
REDWOOD CITY CA 94065

18 167-28-027  
OCCUPANT  
17 ALMA CT  
LOS ALTOS CA 94022

19 167-28-028  
CHRISTOPHER J & GRIFFIN-WHITE  
MAURE WHITE  
23 ALMA CT  
LOS ALTOS CA 94022

20 167-28-075  
DAVID A FITCH  
10 PINE LN  
LOS ALTOS CA 94022

21 167-28-077  
ISAAC W & COZETTA G GUINN  
36 PINE LN  
LOS ALTOS CA 94022

22 167-28-078  
GEORGE WANG  
1135 MESTRES DR  
PEBBLE BEACH CA 93953

22 167-28-078  
OCCUPANT  
24 PINE LN  
LOS ALTOS CA 94022

23 167-28-113  
EDWARD J & BERNS-BATCHELLER  
BATCHELLER  
5 ACORN LN  
LOS ALTOS CA 94022

24 167-28-114  
KAREN M & FRANCIS R CANO  
11 ACORN LN  
LOS ALTOS CA 94022

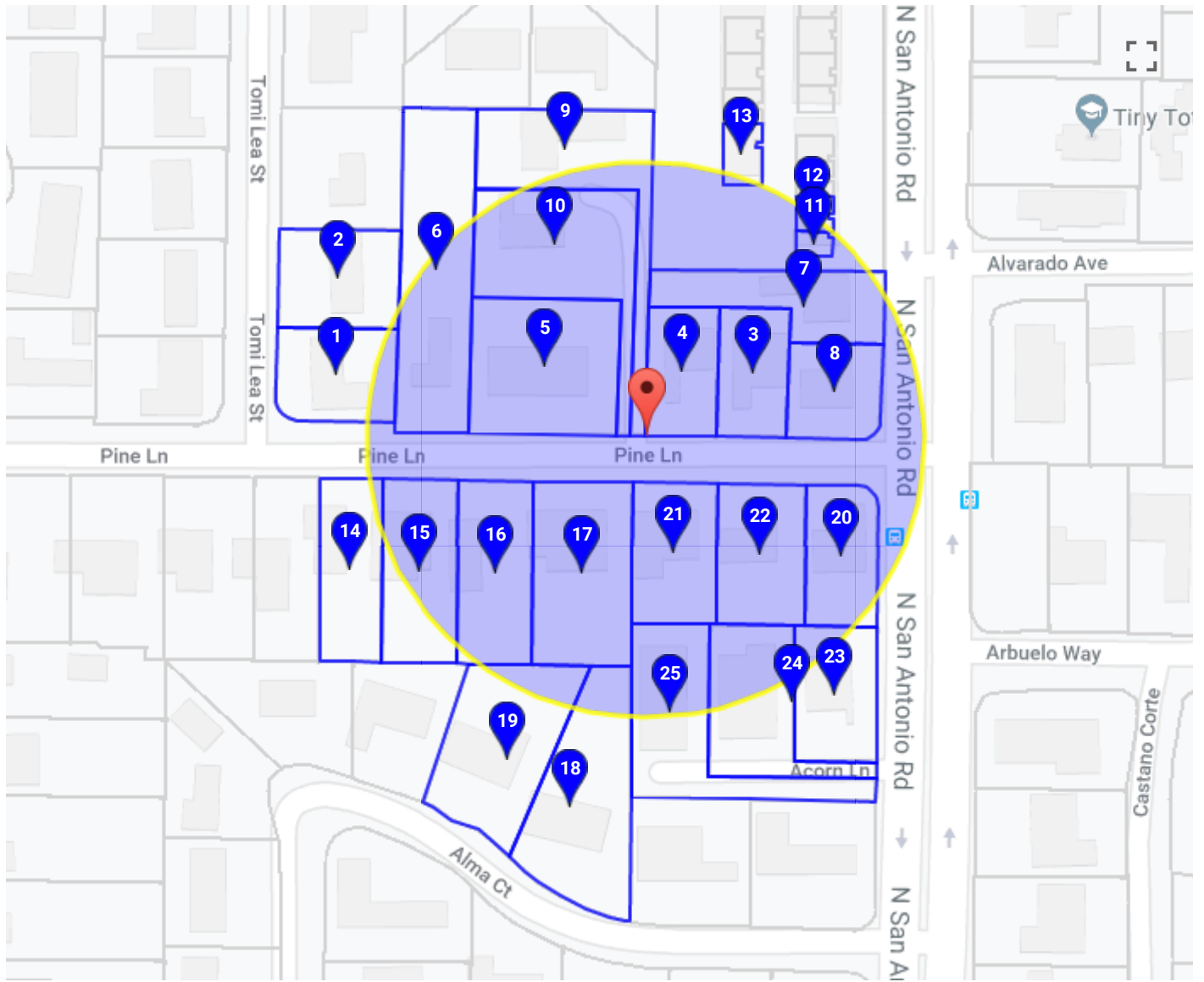
25 167-28-115  
JAMES J & ZOE F CONROY  
17 ACORN LN  
LOS ALTOS CA 94022

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!

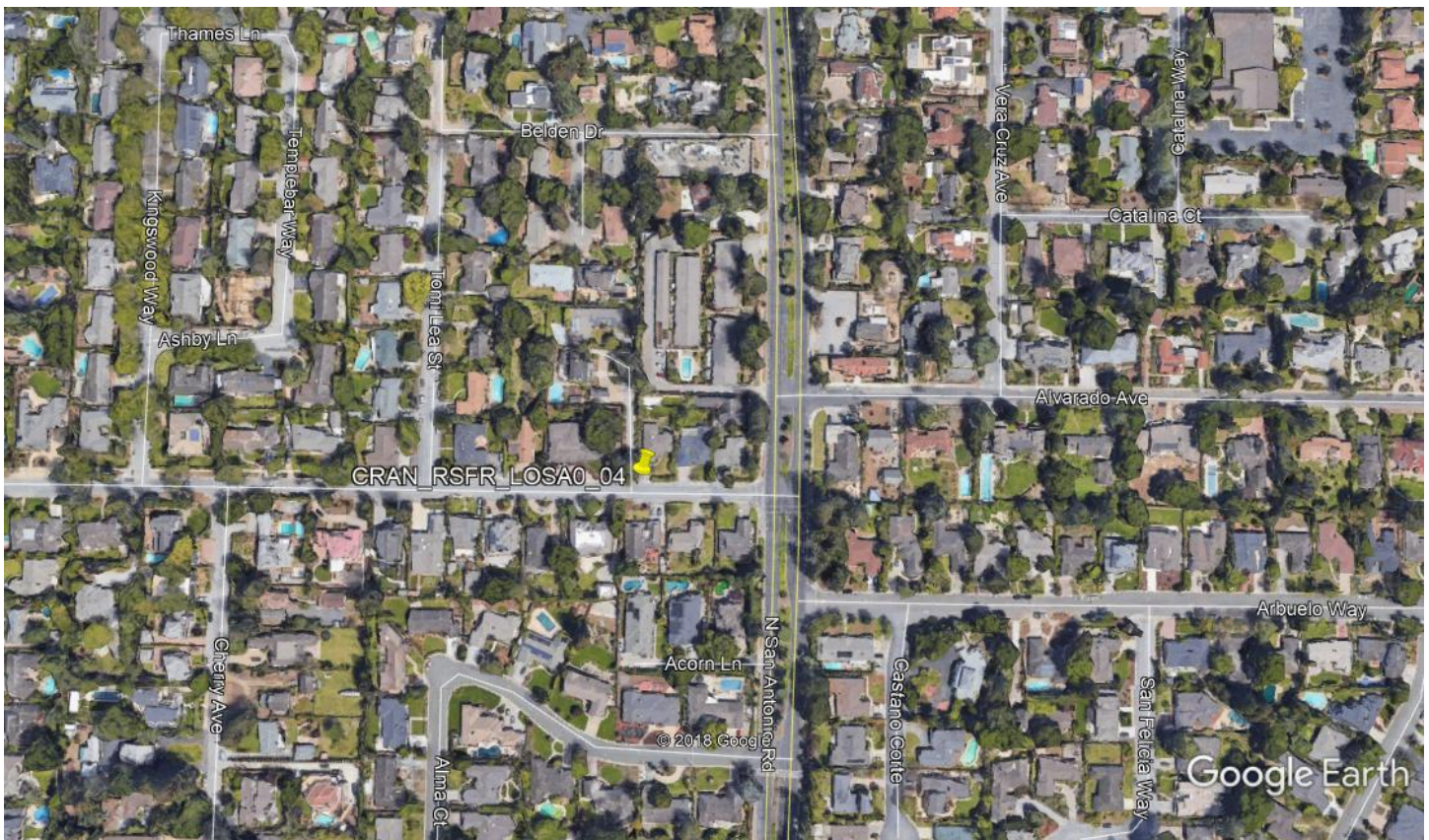
June 10, 2019

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 33 PINE LANE. 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](mailto: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\_LOSAO\_04

33 PINE LANE LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED LOOKING WEST ALONG PINE LANE





AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94553



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

THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE OUR SOLE PROPERTY AND ARE NOT TO BE REPRODUCED, COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, DESIGNER, ARCHITECT, OR OTHER PROFESSIONAL PARTY WITH WHICH CONSULTING ENGINEER, ARCHITECT, OR DESIGNER IS ASSOCIATED.



CRAN\_RSFR\_LOSAO\_04

ROW ADJCT TO 33 PINE LN  
LOS ALTOS, CA 94022

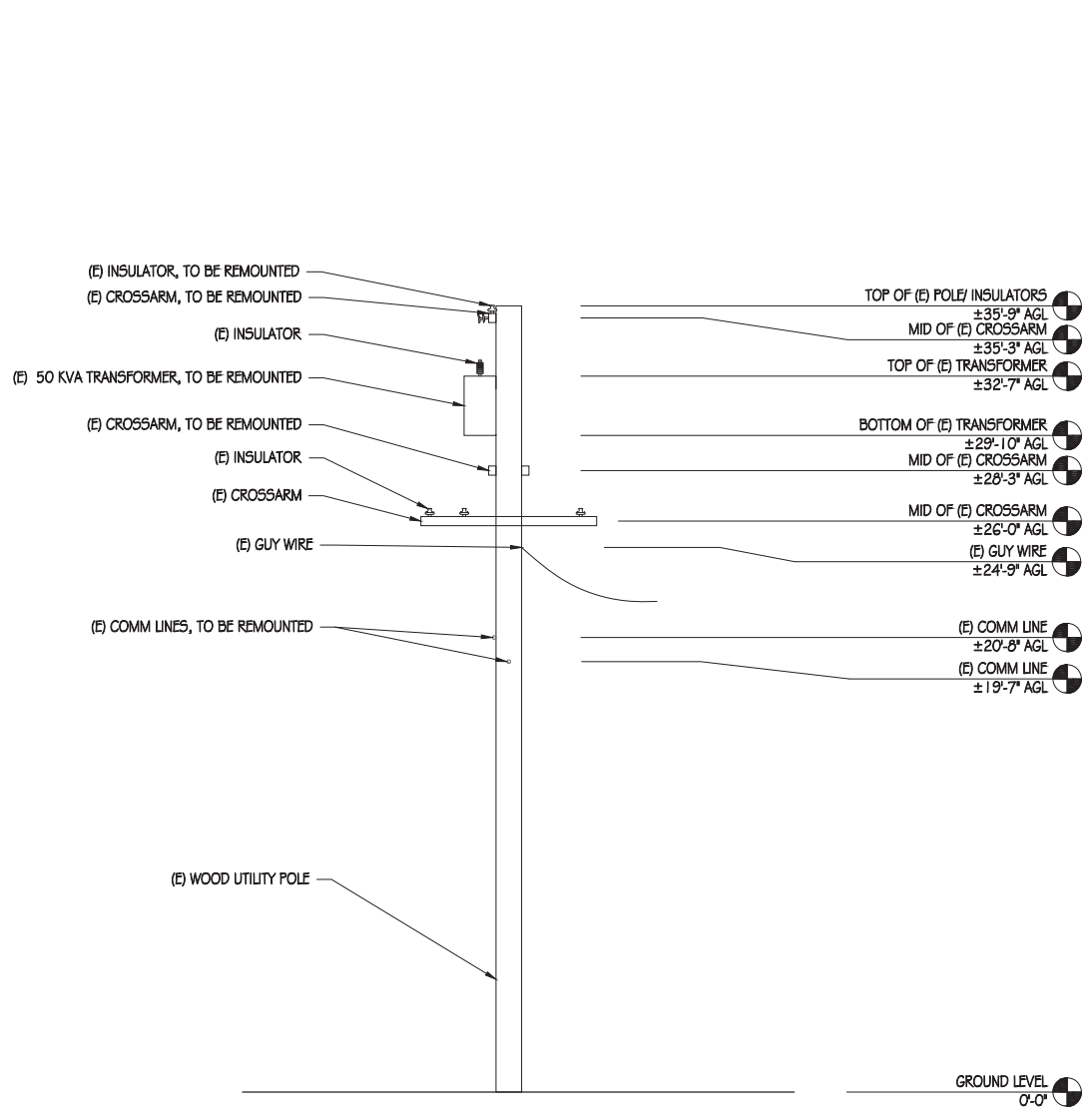
ISSUE STATUS

△	DATE	DESCRIPTION
	06/08/18	CD 90%
	10/29/18	CD 100%

DRAWN BY: IB/BL  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 10/29/18

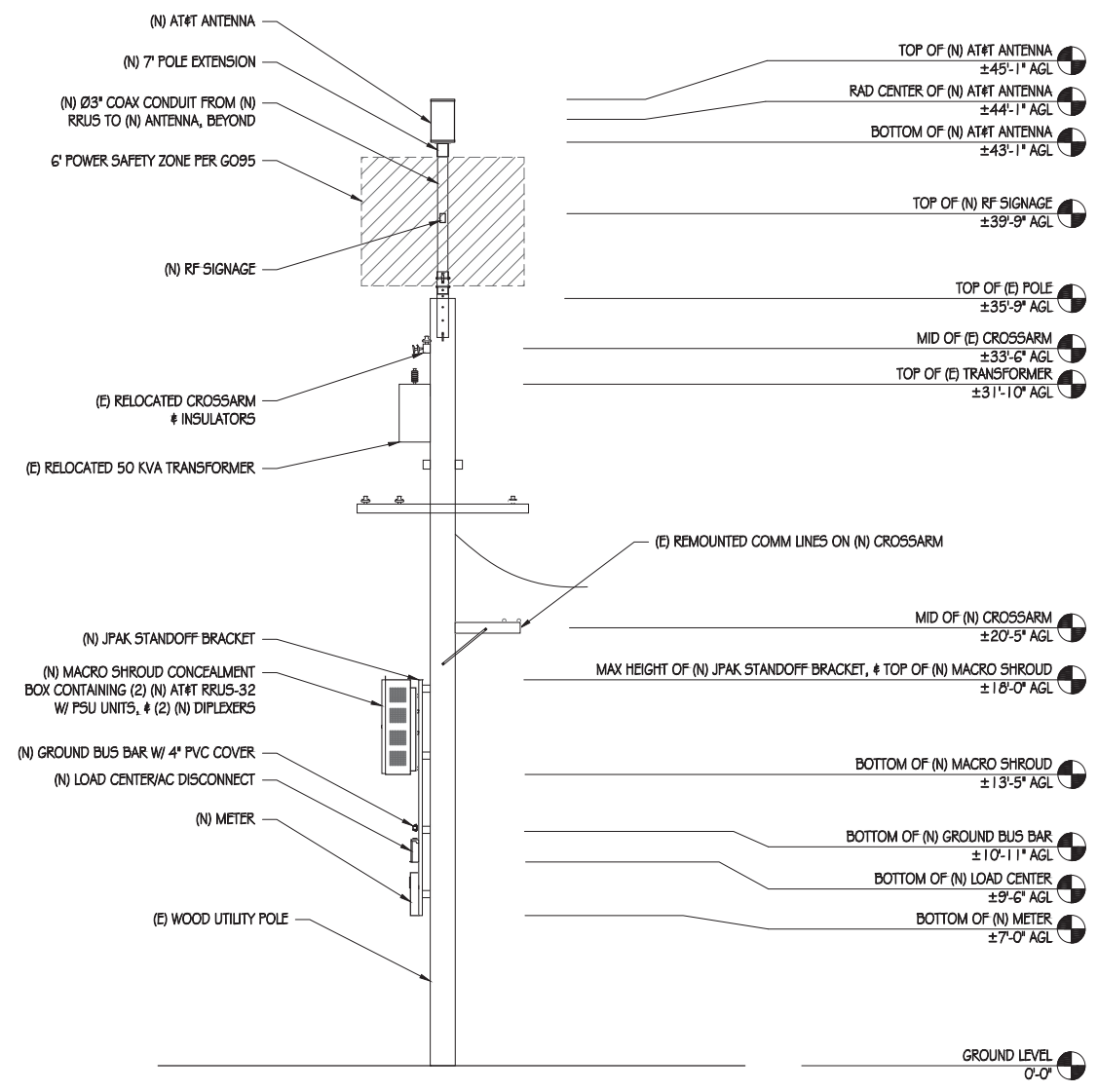
SHEET TITLE:  
ELEVATIONS  
SHEET NUMBER

A-3



EXISTING SOUTH ELEVATION

1/4" = 1'-0"



NEW SOUTH ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN  
NOTE: (E) CATV TO BE MOVED OUT OF CLIMBING SPACE



AT&T Mobility Radio Frequency Statement  
Los Altos CA Small Cell Node 4

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 Pine Lane near Tomi Lea Street. 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 33 Pine Lane is needed to close the high-band LTE service coverage in an area bordered roughly by May Lane to the north, Cherry Avenue to the west, Carriage Court to the south and Vera Cruz Avenue 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.

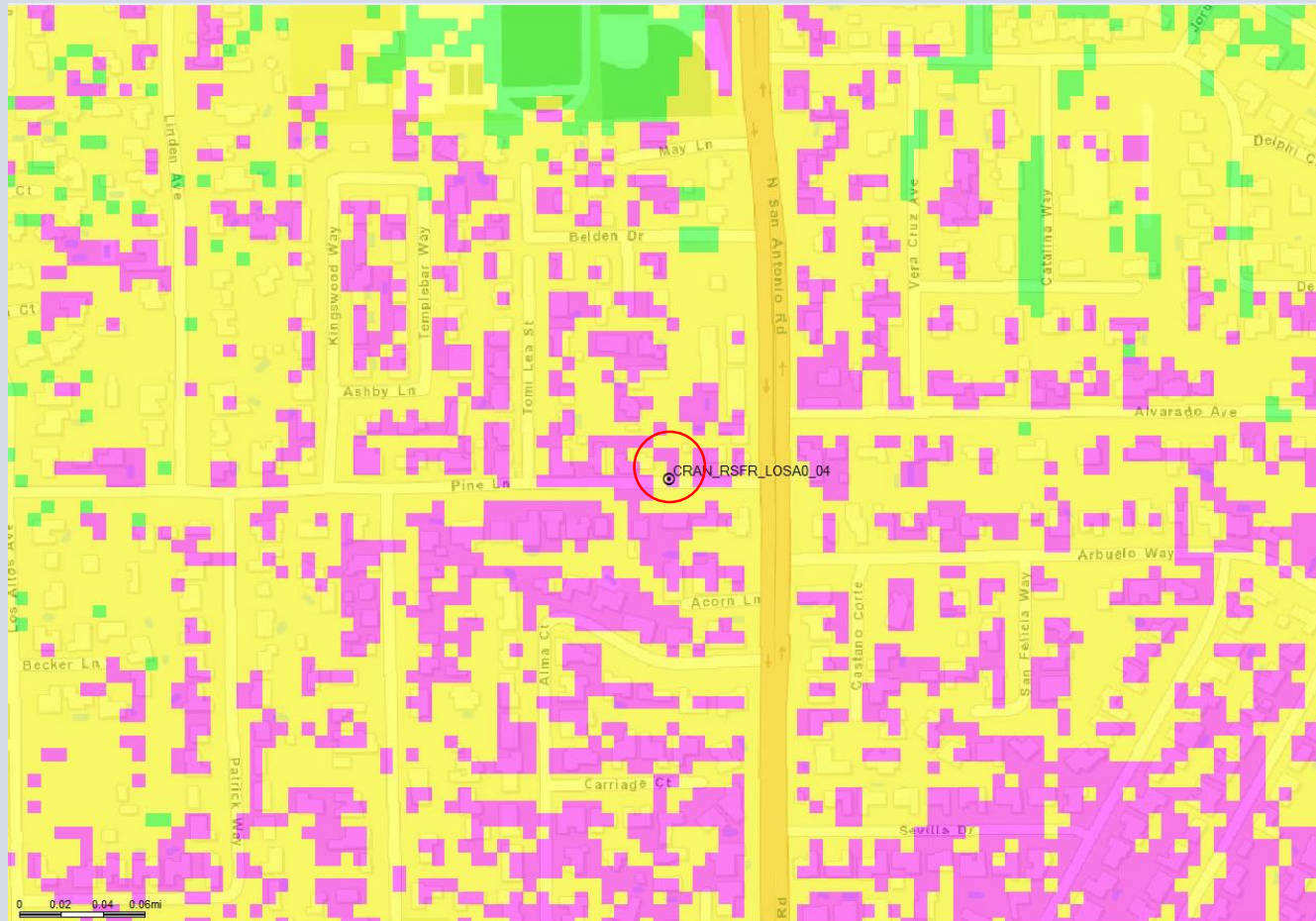
Exhibit 2 to this statement is a map that predicts high-band LTE service coverage based on signal strength in the vicinity if the proposed small cell node is constructed as proposed. As shown by this map, constructing the proposed small cell node here closes this significant service coverage gap.

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\_04




**Legend** [X]

**Coverage\_RSRP (dBm)**

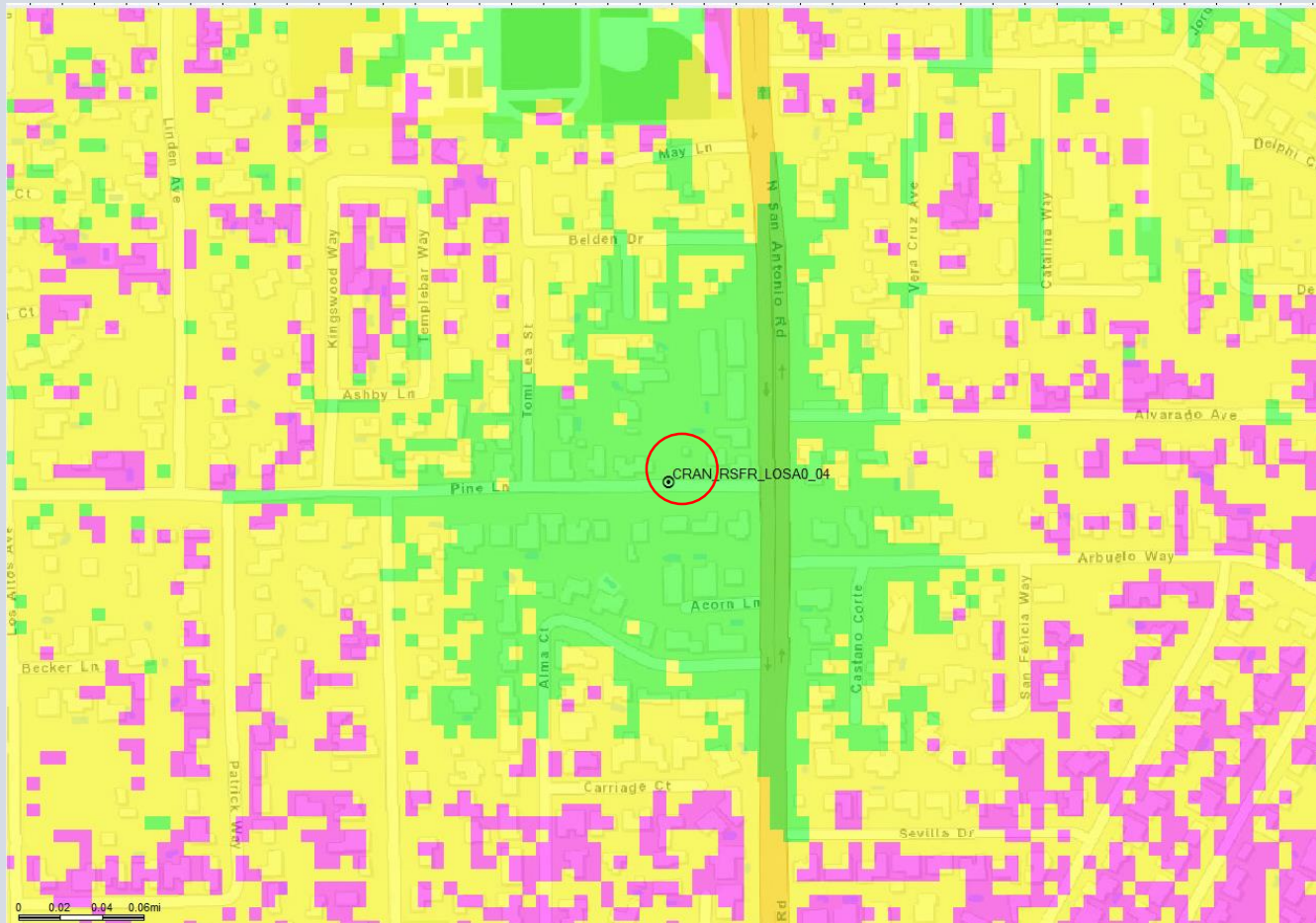
- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

 Macro site

 Proposed small cell Nodes



# LTE 1900 Coverage with Small Cell LOSA0\_04



**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:** 49 San Juan Ct

**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: 49 San Juan Ct  
 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:	\$ -
<b>TOTAL FEES:</b>	<b>\$ 505.00</b>

**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.



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## Radio Frequency Emissions Compliance Report For AT&T Mobility

<b>Site Name:</b> CRAN_RSFR_LOSA0_05	<b>Site Structure Type:</b> Utility Pole
<b>Address:</b> 49 San Juan Court Los Altos, California	<b>Latitude:</b> 37.39588
<b>Report Date:</b> October 29, 2018	<b>Longitude:</b> -122.11325
	<b>Project:</b> New Build

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### General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN\_RSFR\_LOSA0\_05 site located at 49 San Juan Court, 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 <sup>2</sup> )	Averaging Time (minutes)	Power Density (mW/cm <sup>2</sup> )	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 39-foot Utility Pole with a centerline 48.3 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 0.3610% 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 0.8600% 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 43 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

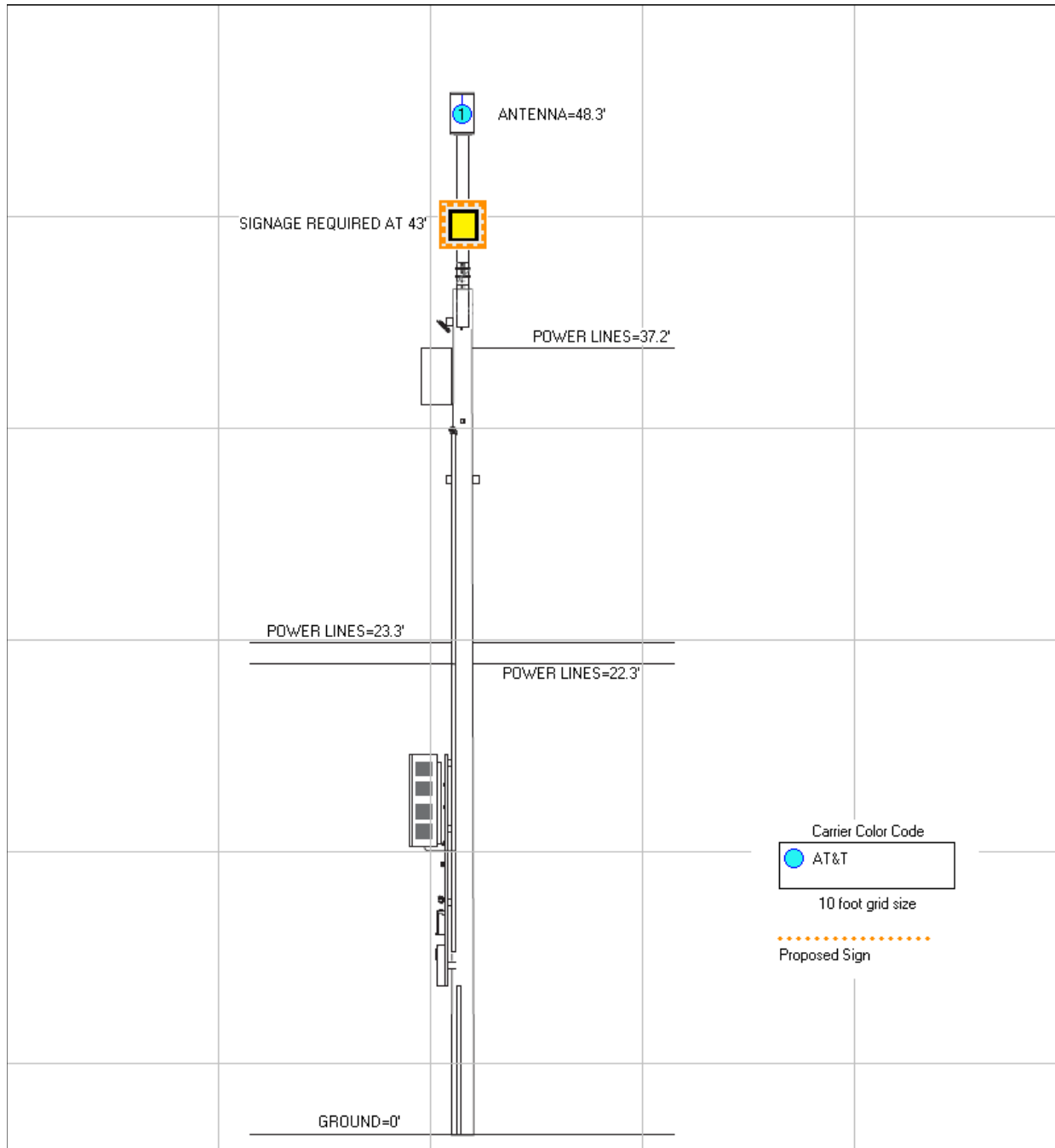


Figure 2: Mitigation Recommendations

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 49 San Juan Court, 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\_005

We have analyzed the wood pole at ROW adjacent to 49 San Juan Ct., Los Altos, CA 94022 (37.3958800, -122.1132500) 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 new pole with proposed loading is at 81.0% capacity and may be **considered adequate to support the proposed loads.**

Please contact me if you have any questions.

Sincerely,

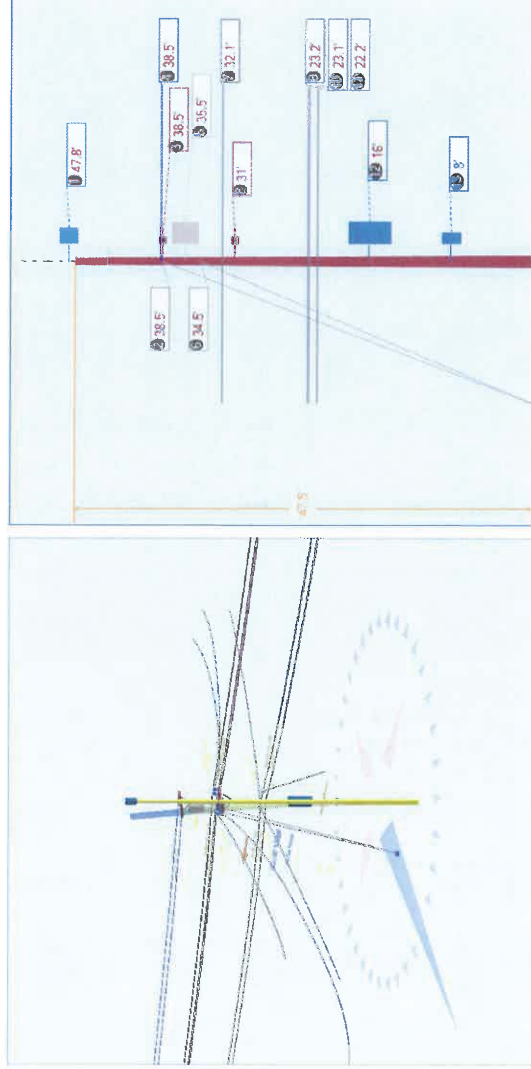
Bret McComb, P.E.



Attachments:

1. O-Calc Output: 4 pages
2. Pole Size Chart: 1 page

Pole Num:	<b>CRAN_RSFR_LOSAO_05</b>	Pole Length / Class:	<b>55 / 3</b>	Code:	<b>GO 95</b>	Structure Type:	<b>Guyed Tangent</b>
Aux Data 1	<b>Unset</b>	Species:	<b>DOUGLAS FIR</b>	NESC Rule:	<b>-</b>	Status:	<b>Guy Wires Adequate</b>
Aux Data 2	<b>Unset</b>	Setting Depth (ft):	<b>7.50</b>	Construction Grade:	<b>B</b>	Pole Strength Factor:	<b>0.50</b>
Aux Data 3	<b>Unset</b>	G/L Circumference (in):	<b>39.96</b>	Loading District:	<b>Light</b>	Transverse Wind LF:	<b>1.00</b>
Aux Data 4	<b>Unset</b>	G/L Fiber Stress (psi):	<b>8,000</b>	Ice Thickness (in):	<b>0.00</b>	Wire Tension LF:	<b>1.00</b>
Aux Data 5	<b>Unset</b>	Allowable Stress (psi):	<b>3,938</b>	Wind Speed (mph):	<b>55.90</b>	Vertical LF:	<b>1.00</b>
Aux Data 6	<b>Unset</b>	Fiber Stress Ht. Reduc:	<b>No</b>	Wind Pressure (psf):	<b>8.00</b>		
Latitude:		Longitude:	<b>37.395880</b>	Deg	<b>-122.113250</b>	Elevation:	<b>94.9</b>
							<b>Feet</b>



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
<b>81.0</b>	0.0	90.0
<b>81.0</b>	0.0	90.0
<b>1.7</b>	24.9	180.0

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
<b>53,379</b>	89.8	90.0
<b>53,379</b>	89.8	90.0
<b>66,317</b>		

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)
▶ Single - 14" - Soil Class 4	15.0	0.0	0.3	90.0	5.6	180.0
• HS 1/8 (Down)			3.2	90.0	62.2	180.0
• HS 1/8 (Down)			3.0	90.0	68.7	180.0
<b>System Capacity Summary:</b>			<b>Adequate</b>		<b>Adequate</b>	



**Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 89.8°**

	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	984	64.1	37,872	71.0	57.1	2,250	71	1	2,250	57.1
Comms	-67	-4.4	-668	-1.3	-1.0	-40	351	3	-37	-0.9
GuyBraces	4	0.3	144	0.3	0.2	9	59	0	9	0.2
PowerEquipments	42	2.7	1,959	3.7	3.0	116	335	3	119	3.0
GenericEquipments	131	8.5	2,521	4.7	3.8	150	160	1	151	3.8
Pole	317	20.7	7,363	13.8	11.1	437	1,599	13	450	11.4
Crossarms	101	6.6	3,398	6.4	5.1	202	138	1	203	5.2
Insulators	24	1.5	790	1.5	1.2	47	82	1	48	1.2
Pole Load	1,535	100.0	53,379	100.0	80.5	3,171	2,794	22	3,193	81.1
Pole Reserve Capacity			12,938		19.5	767			745	18.9

**Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 89.8°**

	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>	1,218	79.3	46,016	86.2	69.4	2,733	1,196	9	2,743	69.7
Pole	317	20.7	7,363	13.8	11.1	437	1,599	13	450	11.4
<b>Totals:</b>	<b>1,535</b>	<b>100.0</b>	<b>53,379</b>	<b>100.0</b>	<b>80.5</b>	<b>3,171</b>	<b>2,794</b>	<b>22</b>	<b>3,193</b>	<b>81.1</b>

**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 1 AWG 7 STRAND PANSY	38.50	40.55	0.3280	1.68	0.078	165.0	90.0	165.0	492	18,942	1	0	18,943
Primary	AAC 1 AWG 7 STRAND PANSY	38.50	40.55	0.3280	1.68	0.078	165.0	90.0	165.0	492	18,942	1	0	18,943
Secondary	TRIPLEX 6 AWG	32.15	36.56	0.5800	2.31	0.113	165.0	90.0	165.0	357	11,485	5	0	11,490
Secondary	TRIPLEX 6 AWG	32.15	36.56	0.5800	2.31	0.113	165.0	90.0	165.0	357	11,485	5	0	11,489
Secondary	TRIPLEX 6 AWG	32.15	20.98	0.5800	2.31	0.113	165.0	90.0	165.0	357	11,485	5	0	11,490
Secondary	TRIPLEX 6 AWG	32.15	20.98	0.5800	2.50	0.113	176.0	270.0	176.0	357	-11,485	-5	0	-11,490
Secondary	TRIPLEX 6 AWG	32.15	36.56	0.5800	2.50	0.113	176.0	270.0	176.0	357	-11,485	-5	0	-11,490
Secondary	TRIPLEX 6 AWG	32.15	36.56	0.5800	2.50	0.113	176.0	270.0	176.0	357	-11,485	-5	0	-11,490
<b>Totals:</b>											<b>37,884</b>	<b>1</b>	<b>0</b>	<b>37,885</b>

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		32.15	36.56	1.0000	1.30	0.400	35.0	5.0	35.2	50	142	9	373	524
Telco		32.15	36.56	1.0000	3.24	0.400	78.0	170.0	78.4	100	547	11	812	1,370
Telco		32.15	36.56	1.0000	2.32	0.400	66.0	180.0	66.3	100	-11	-11	708	687
Telco		32.15	36.56	1.0000	5.83	0.400	75.0	350.0	76.5	50	-273	-10	781	499
Telco		23.25	7.54	1.0000	3.13	0.400	165.0	90.0	165.1	800	18,600	0	0	18,600
Telco		23.11	25.16	1.0000	0.36	0.400	45.0	0.0	45.0	300	23	21	343	387
Telco		23.11	25.16	1.0000	0.87	0.400	73.0	180.0	73.0	400	-31	12	556	537
Telco		23.25	7.54	1.0000	3.41	0.400	176.0	270.0	176.1	800	-18,600	0	0	-18,600
Telco		23.10	25.16	1.0000	0.16	0.400	30.0	315.0	30.0	300	-4,763	-22	115	-4,670
Telco		22.25	7.60	1.0000	3.13	0.400	165.0	90.0	165.1	800	17,800	0	0	17,800
Telco		22.25	7.60	1.0000	3.41	0.400	176.0	270.0	176.1	800	-17,800	0	0	-17,800
<b>Totals:</b>											<b>-4,366</b>	<b>11</b>	<b>3,686</b>	<b>-668</b>

Power Equipment	Owner	Height (ft)	Horiz. Offset (in)	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		35.50	17.34	90.0	34.00	--	22.00	--	484	1,475	1,959		
<b>Totals:</b>											<b>484</b>	<b>1,475</b>	<b>1,959</b>

Generic Equipment	Owner	Height (ft)	Horiz. Offset (in)	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		16.00	13.45	0.0	53.00	16.00	--	23.00	-103	1,469	1,366		
Box		8.00	8.22	0.0	24.00	4.63	--	12.00	-5	142	137		
Cylinder		47.75	0.35	0.0	24.00	--	16.00	--	0	1,019	1,019		
<b>Totals:</b>											<b>-108</b>	<b>2,629</b>	<b>2,522</b>

Crossarm	Owner	Height (ft)	Horiz. Offset (in)	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		38.50	5.92	90.0	46.00	4.50	84.00	23	1,294	1,316			
Normal		31.00	6.35	90.0	46.00	4.50	84.00	0	2,083	2,083			
<b>Totals:</b>											<b>23</b>	<b>3,377</b>	<b>3,399</b>

Insulator	Owner	Height (ft)	Horiz. Offset (in)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Deadend		38.50	-36.00	9.3	3.80	12.75	5	104	108

Deadend	Deadend 12.75"	38.50	36.00	170.7	0.0	3.00	3.80	12.75	5	104	108	
Post	Post Insulator - 15 kV	31.19	-36.00	10.0	0.0	11.00	4.75	11.50	6	96	101	
Post	Post Insulator - 15 kV	31.19	36.00	170.0	0.0	11.00	4.75	11.50	6	96	101	
Post	Post Insulator - 15 kV	31.19	-20.00	17.6	0.0	11.00	4.75	11.50	6	96	101	
Post	Post Insulator - 15 kV	31.19	-20.00	342.4	180.0	11.00	4.75	11.50	-6	96	90	
Post	Post Insulator - 15 kV	31.19	36.00	190.0	180.0	11.00	4.75	11.50	-6	96	90	
Post	Post Insulator - 15 kV	31.19	-36.00	350.0	180.0	11.00	4.75	11.50	-6	96	90	
Bolt	Single Bolt	23.25	0.00	180.0	180.0	5.00	3.00	0.00	0	0	0	
Bolt	Single Bolt	22.25	0.00	180.0	180.0	5.00	3.00	0.00	0	0	0	
<b>Totals:</b>										<b>9</b>	<b>780</b>	<b>790</b>

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)
HS 1/8	Down	38.50	0.00	15.00	0.125	75.00	0.0	68.5	0.032	48.28	0.09
HS 1/8	Down	34.50	0.00	15.00	0.125	75.00	0.0	66.3	0.032	44.48	0.08

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 <sup>2</sup> (lbs)	Maximum Tension <sup>2</sup> (lbs)	Applied Tension <sup>3</sup> (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL <sup>3</sup> (ft-lb)
HS 1/8	2.30e+7	1,330	0.75	998	700	620	620	32	29	12	0	79
HS 1/8	2.30e+7	1,330	0.75	998	700	686	686	30	28	12	0	65
<b>Totals:</b>										<b>57</b>	<b>24</b>	<b>144</b>

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 <sup>2</sup> (lbs)	Load at Pole MCU <sup>3</sup> (lbs)	Max Required Capacity <sup>2</sup> (%)
Single - 14" - Soil Class 4		0.00	15.00	0.0	31,000	0.75	23,250	1,306	62	5.6

Pole Buckling	Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Hgt.) 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	24.90	33.34	11.78	9.34	7.32	12.73	1.60e+6	60.00	57.00	47.50	166,577	1643.82	58.82



**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)	<b>Minimum Circumference at 6 feet from Butt (Inches)</b>											
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	-	-	-	-
	<b>H-6</b>	<b>H-5</b>	<b>H-4</b>	<b>H-3</b>	<b>H-2</b>	<b>H-1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>

\* 125' Availability: Untreated Only





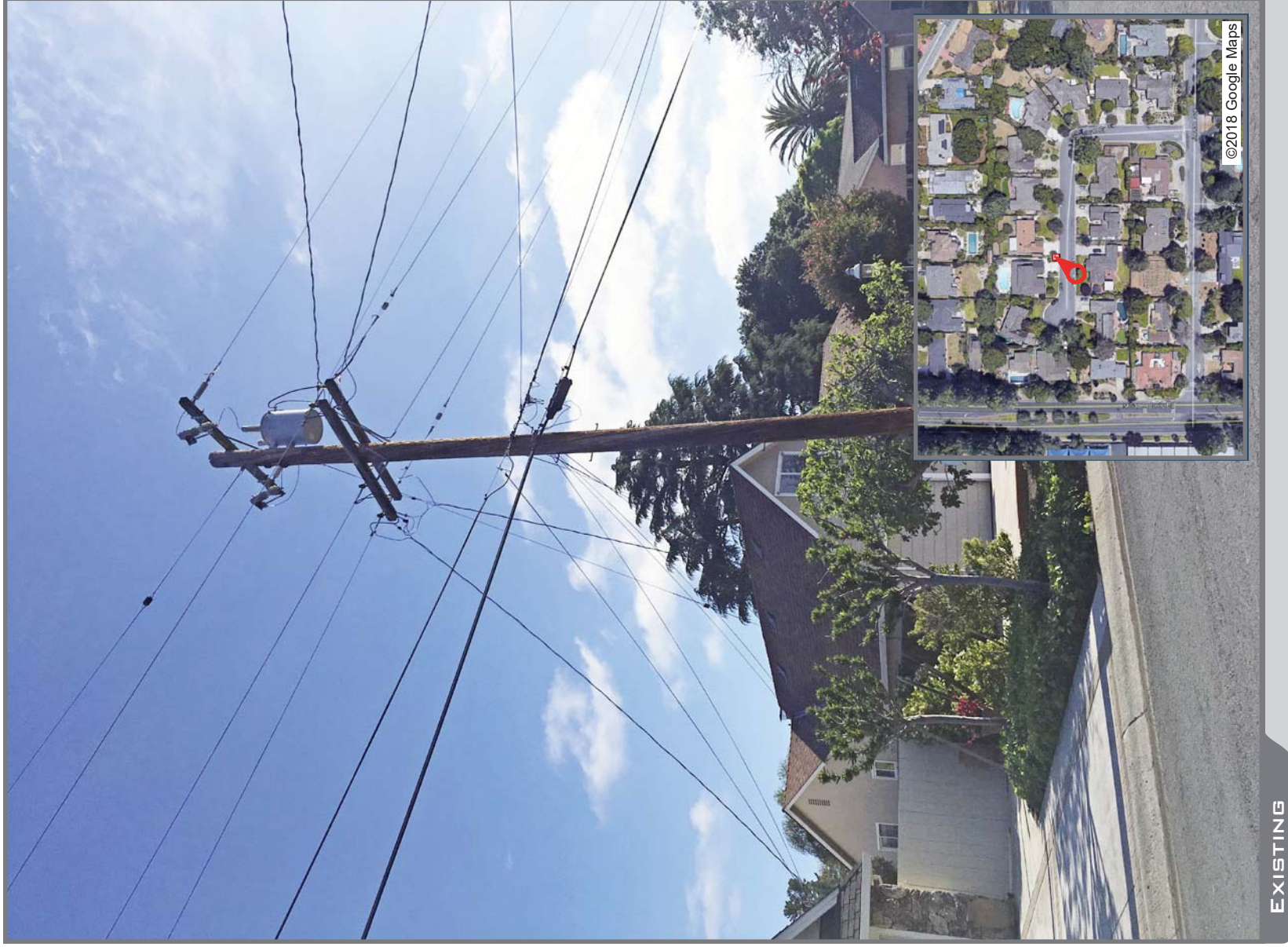
at&t

# CRAN\_RSFR\_LOSAO\_05

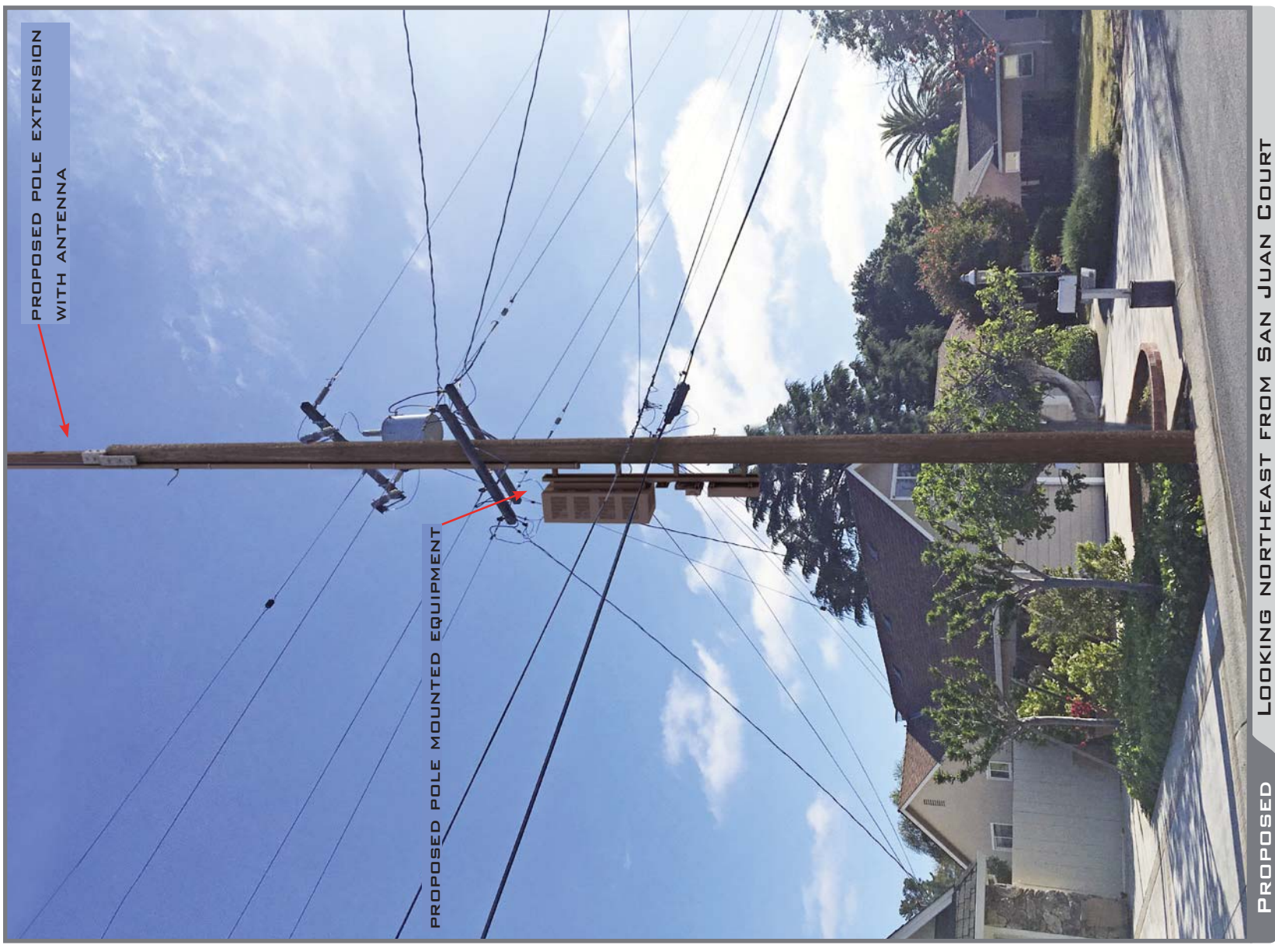
49 SAN JUAN COURT LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED

LOOKING NORTHEAST FROM SAN JUAN COURT



# Alternate Review

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

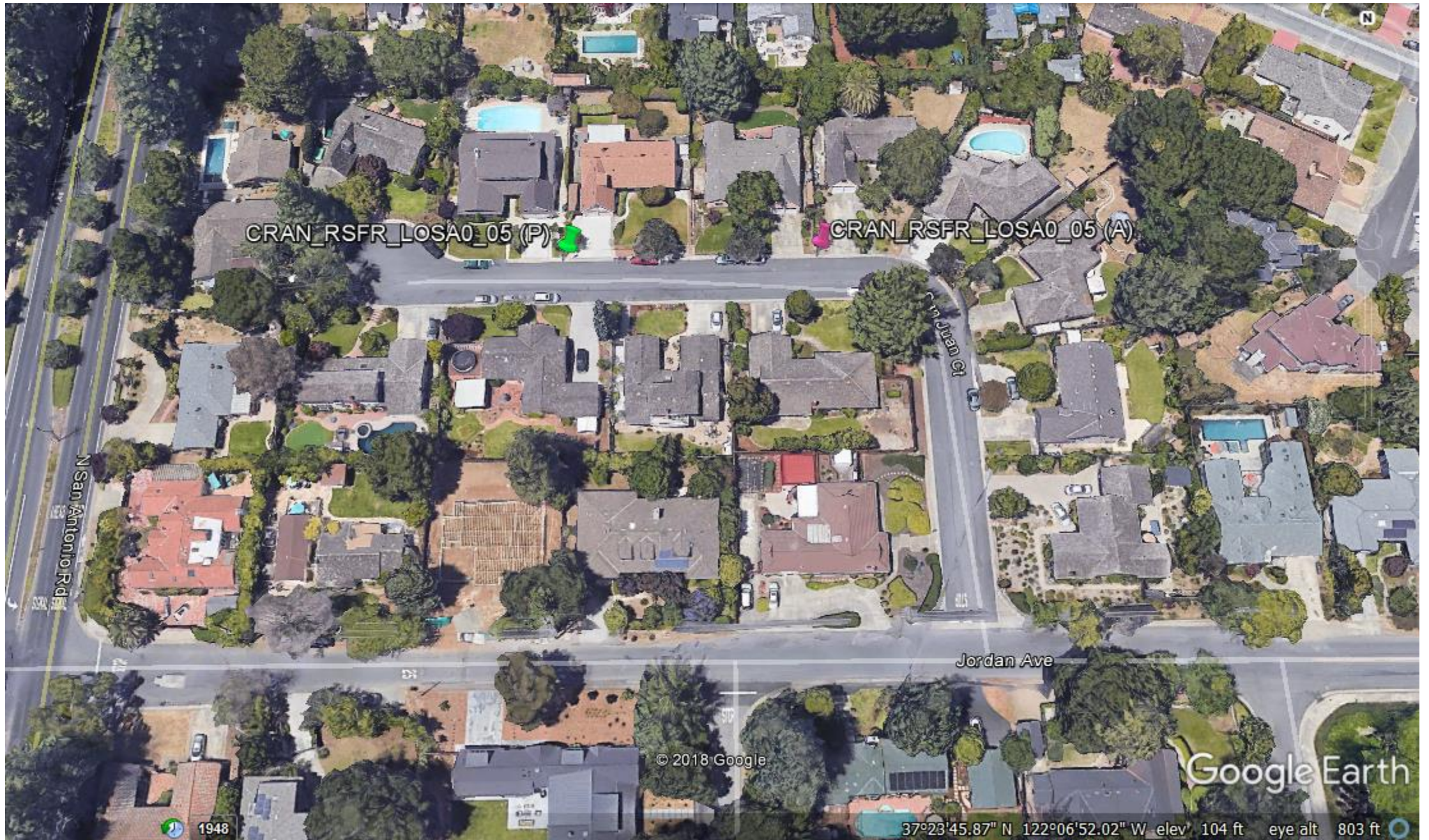


## Alternative Site Location

This location is a wood utility pole located in the public ROW on the north side of San Juan Court approximately 300 feet from Jordan Avenue

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\_05 (P)

CRAN\_RSFR\_LOSA0\_05 (A)

N San Antonio Rd

N Juan Ct

Jordan Ave

© 2018 Google

Google Earth

1948

37°23'45.87" N 122°06'52.02" W elev' 104 ft eye alt 803 ft



## AT&T Future Build-out Sites



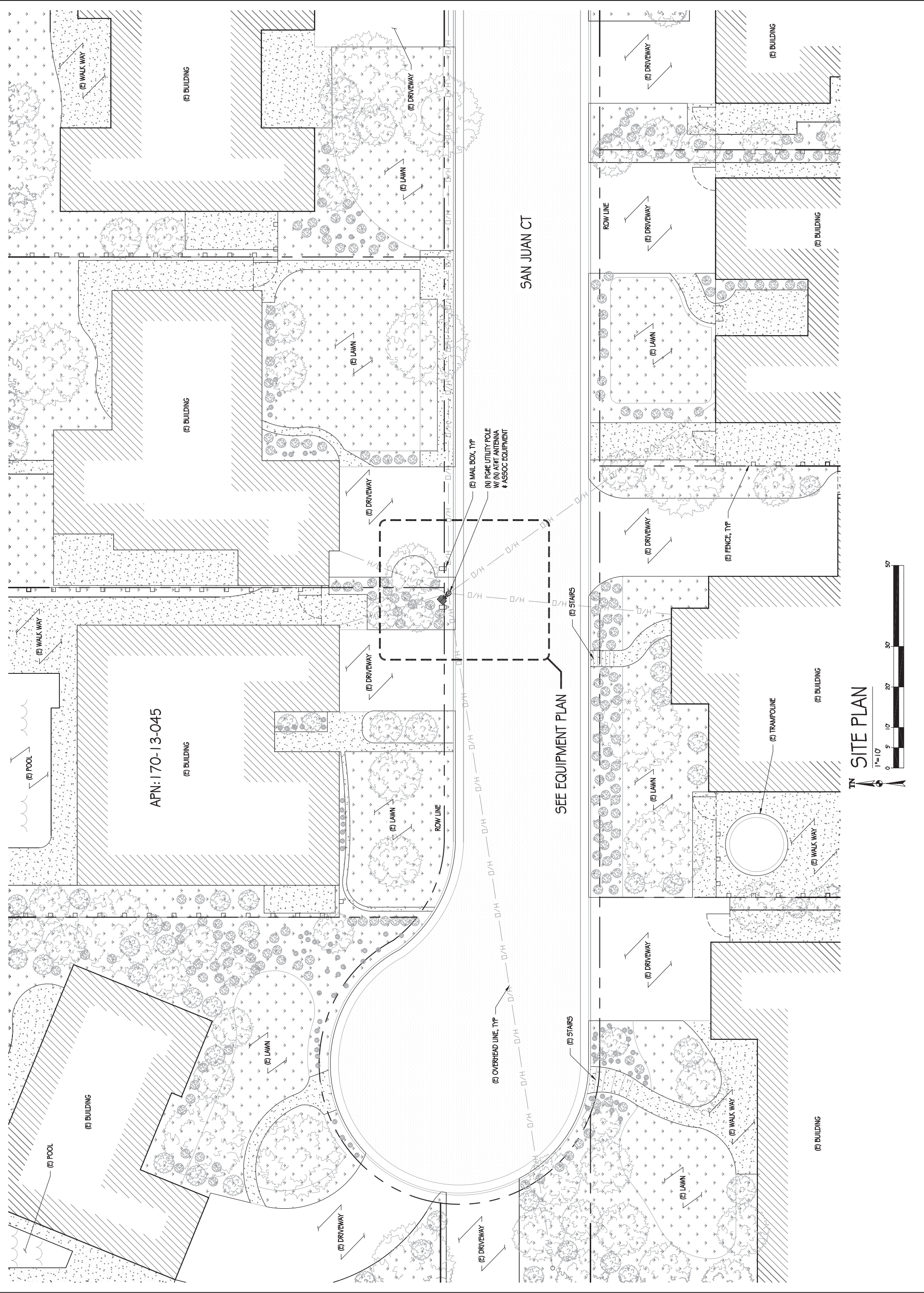
Name	Address
LOSA0_01	141 Almond Ave
LOSA0_02	687 Linden Ave
LOSA0_03	421 Valencia
LOSA0_04	33 Pine
LOSA0_05	49 San Juan
LOSA0_06	791 Los Altos
LOSA0_07	98 Eleanor
LOSA0_08	182 Garland
LOSA0_09	491 Patrick Way
LOSA0_10	300 Los Altos Ave
LOSA0_11	130 Los Altos
LOSA0_12	356 Blue Oak
SJWE_007	5000 El Camino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











**1" = 10'**  
**SITE PLAN**

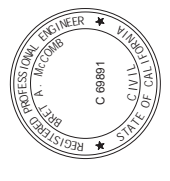


ISSUE STATUS	
DATE	DESCRIPTION
10/30/16	CD 90%

DRAWN BY: T. JONES  
 CHECKED BY: T. DCARLO  
 APPROVED BY: B. MCCOMB  
 DATE: 10/30/16  
 SHEET TITLE:

SITE PLAN  
 SHEET NUMBER  
**A-1**

**CRAN\_RSFR\_LOSAO\_05**  
 ROW ADJCT TO 49 SAN JUAN CT  
 LOS AUTOS, CA 94022



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

**SURESITE**  
 Infrastructure experts. Soil cell leaders.  
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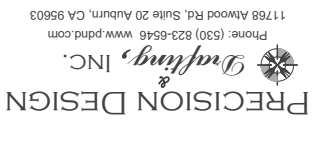




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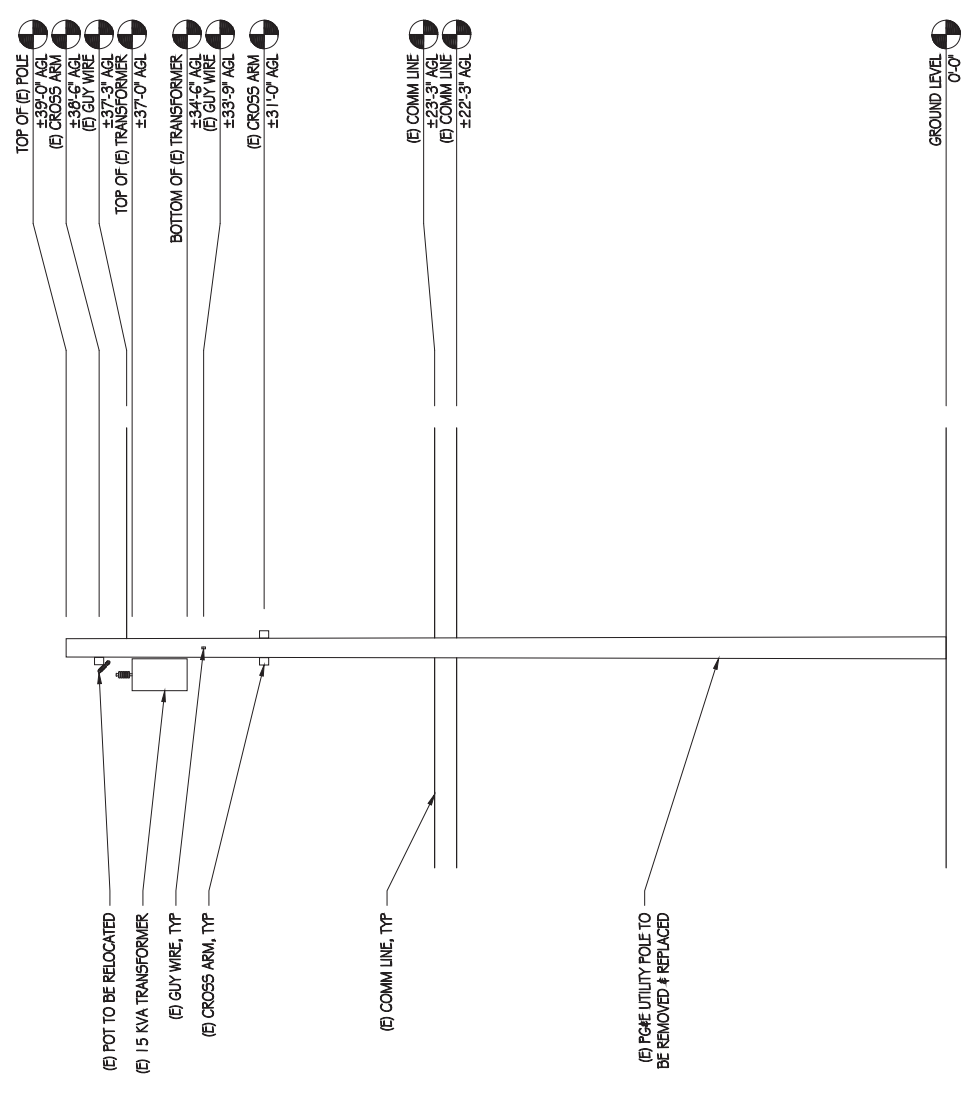
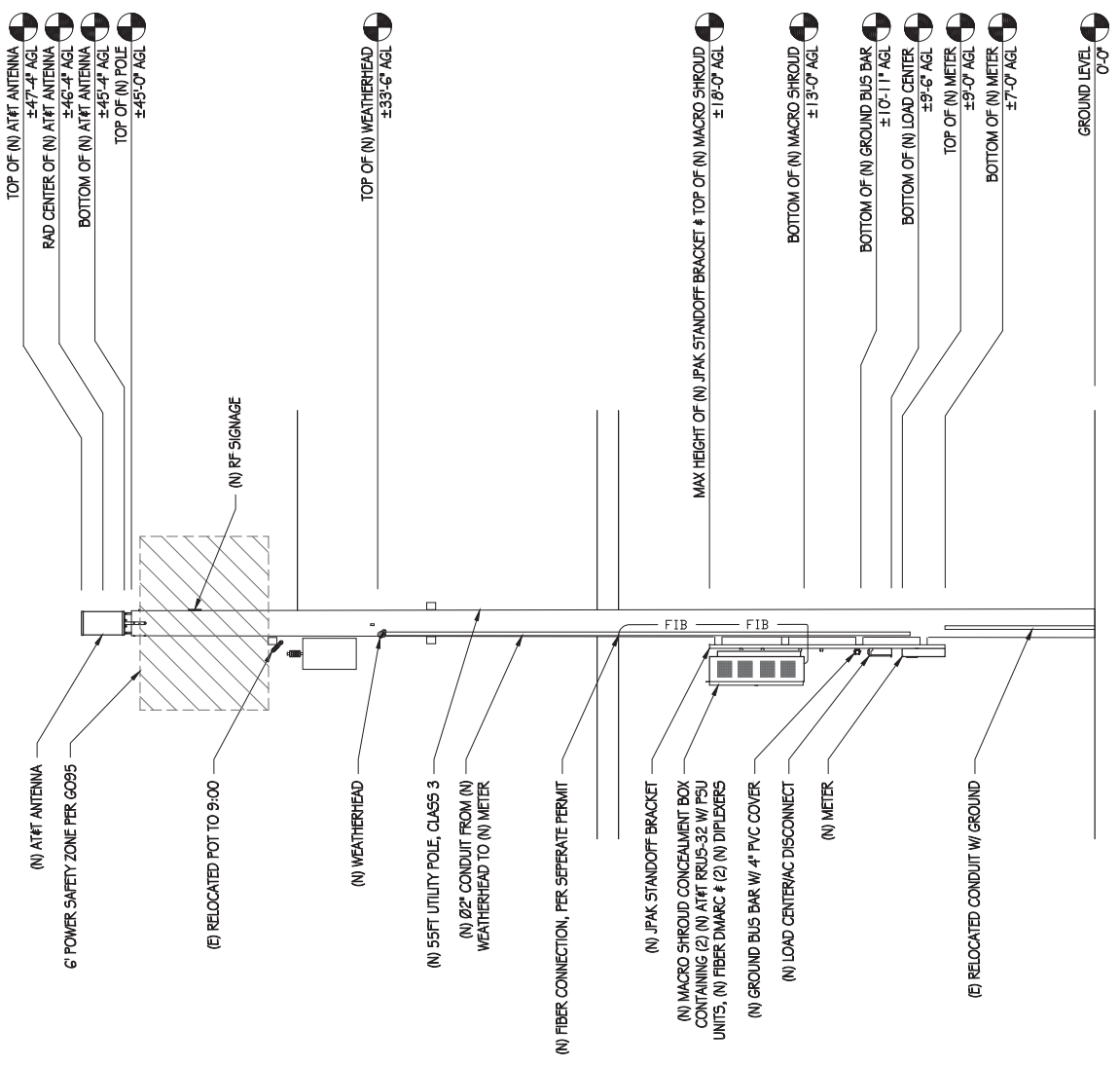


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ISSUE STATUS	
DATE	DESCRIPTION
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DRAWN BY: T. JONES  
CHECKED BY: T. DCARLO  
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DATE: 10/30/16  
SHEET TITLE:

ELEVATIONS  
SHEET NUMBER  
**A-3**





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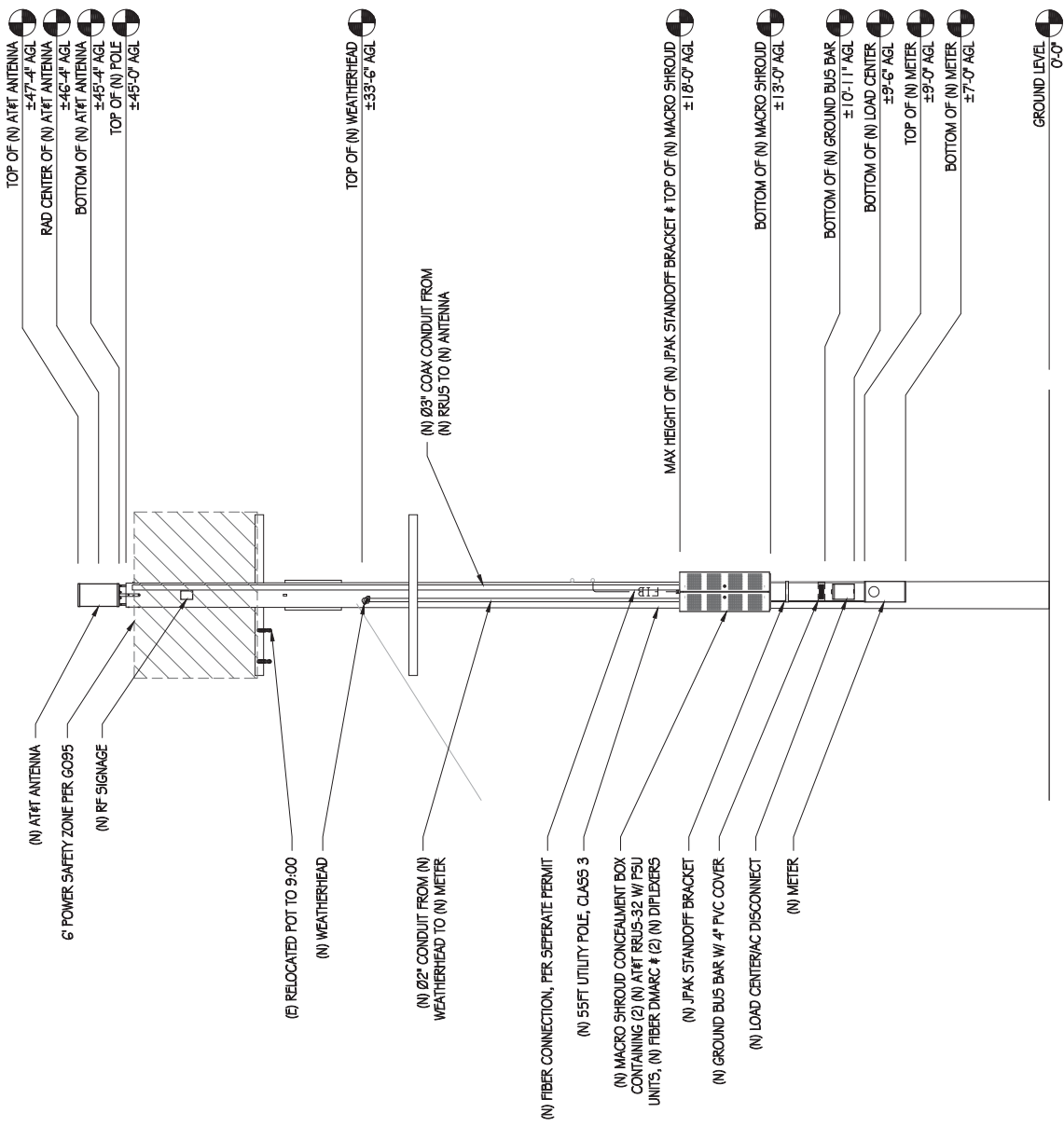


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ROW ADJUCT TO 48 SAN JUAN CT  
LOS ALTOS, CA 94022

ISSUE STATUS	
DATE	DESCRIPTION
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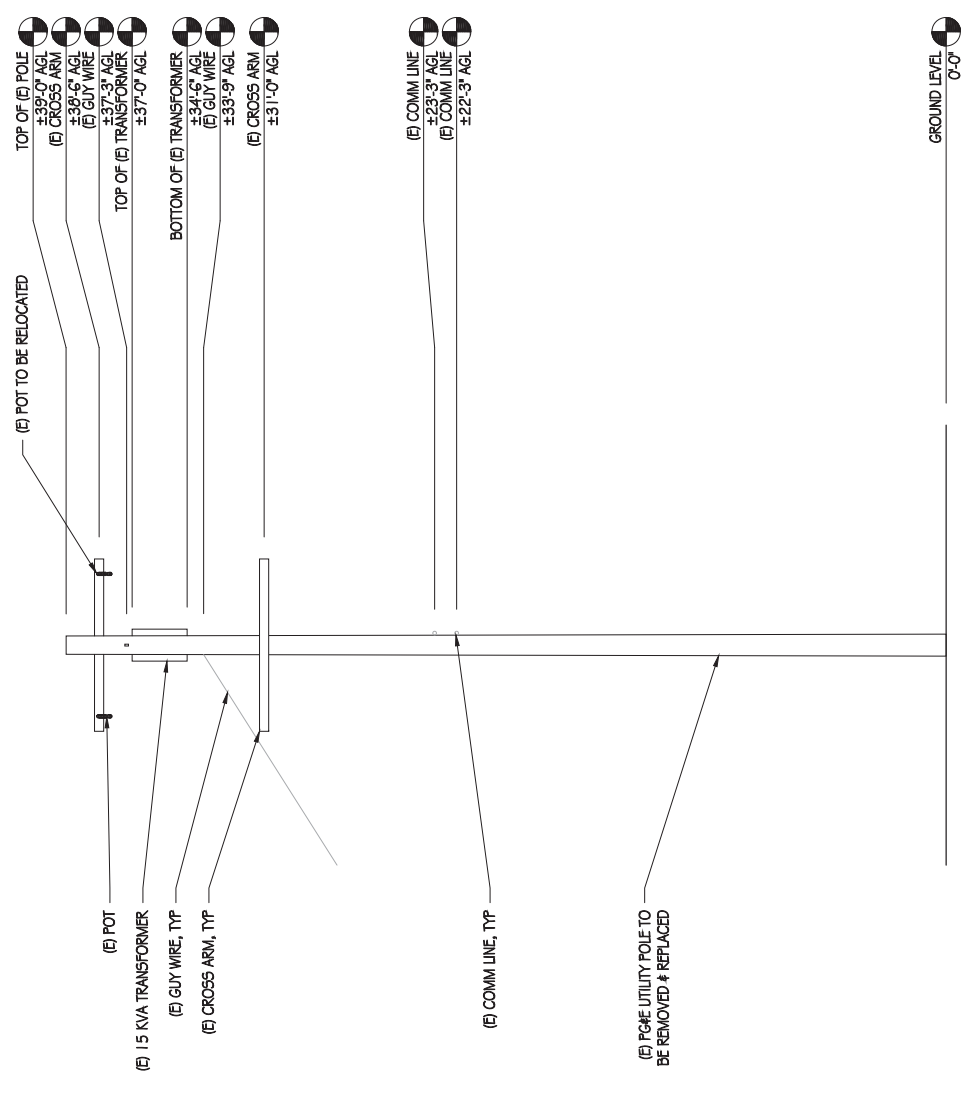
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CHECKED BY: T. DCARLO  
APPROVED BY: B. MCCOMB  
DATE: 10/30/16  
SHEET TITLE:

ELEVATIONS  
SHEET NUMBER  
**A-4**



### NEW EAST ELEVATION

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

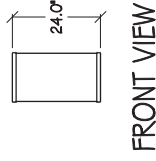


### EXISTING EAST ELEVATION

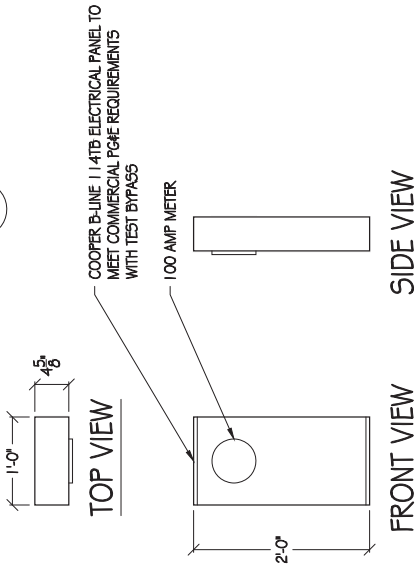
1/4" = 1'-0"

**KMW FX-OM2L1OH2-06T**

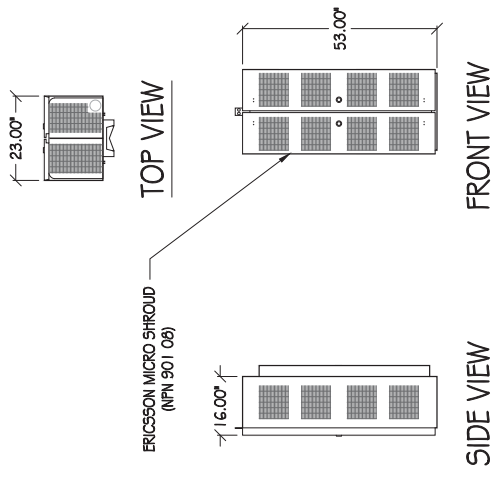
WIND AREA: 2.67 SQ. FT.  
 WEIGHT: 34.2 LBS  
 DIMENSIONS: Ø16.0" X 24.0" TALL  
 RF CONNECTORS: (1) 4.3-10 FEMALE



**1** ANTENNA  
 1/2"=1"



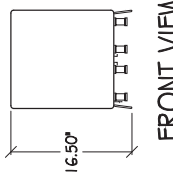
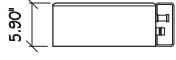
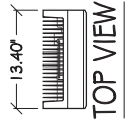
**5** METER DETAIL  
 1"=1"



**9** MICRO SHROUD CONCEALMENT  
 1/2"=1"

**ERICSSON RRUS-4415**

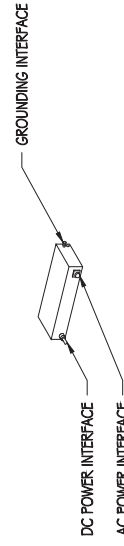
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



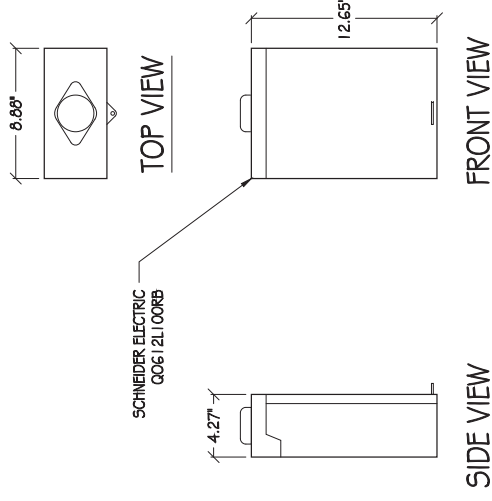
**2** RRUS-4415 DETAIL  
 1"=1"

**ERICSSON PSU AC 08**

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



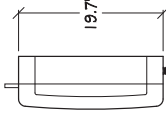
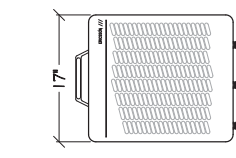
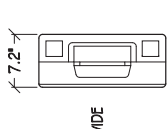
**6** AC POWER MODULE  
 NTS



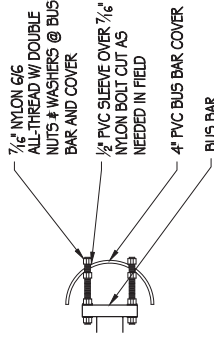
**10** LOAD CENTER/AC DISCONNECT  
 1"=6"

**ERICSSON RRUS-11**

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



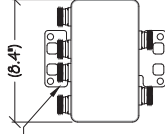
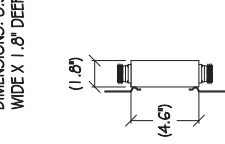
**3** RRUS-11 DETAIL  
 1"=1"



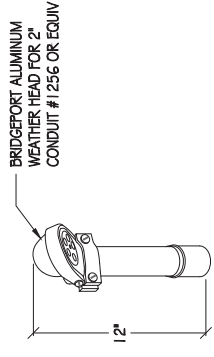
**7** BUS BAR COVER  
 6"=1"

**COMMSCOPE  
 CBC1923T-4310/  
 E11F13P06**

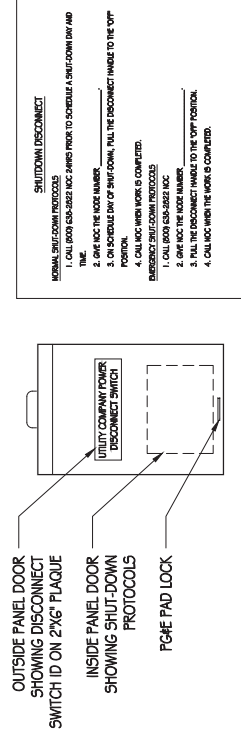
COLOR: GRAY  
 TOTAL WEIGHT: +/- 4.4 LB  
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



**4** DIPLEXER DETAIL  
 1"=6"



**8** WEATHER HEAD  
 NTS



**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

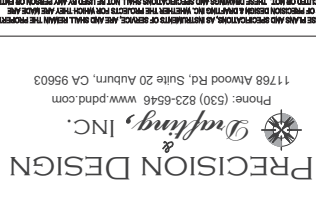


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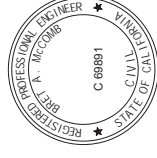
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**ISSUE STATUS**

Δ	DATE	DESCRIPTION
	10/30/16	CD 90%

DRAWN BY: T. JONES

CHECKED BY: T. DCARLO

APPROVED BY: B. MCCOMB

DATE: 10/30/16

SHEET TITLE:

DETAILS

SHEET NUMBER

**A-5**



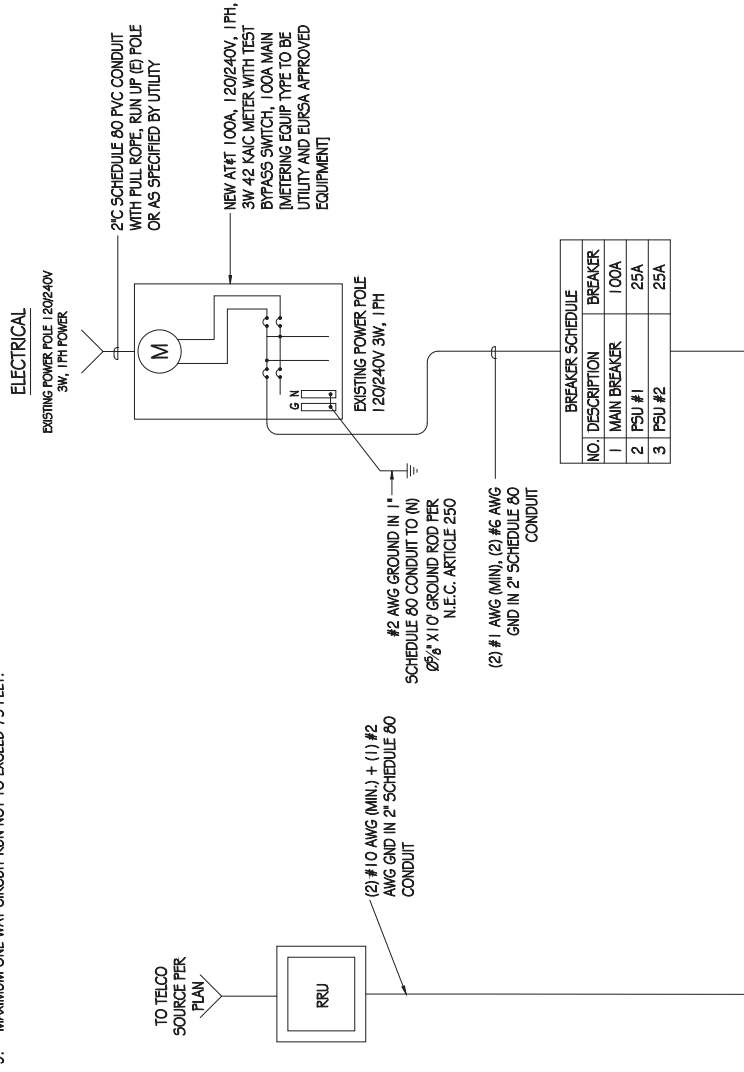


### GENERAL ELECTRICAL NOTES:

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 THWN.
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, 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:

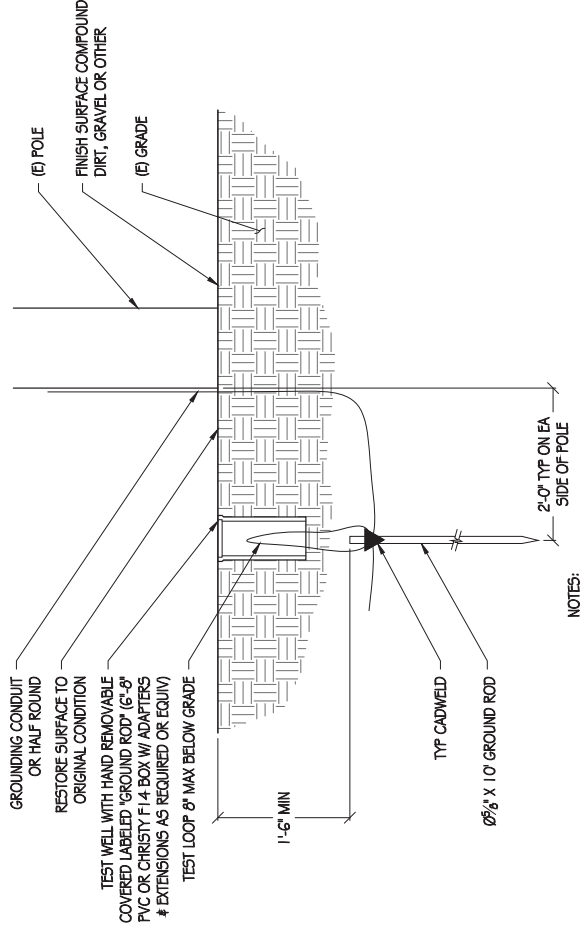
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORKMATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE 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	TYPE	MAX TRANSMIT POWER	W	KW
ERICSSON RRU5-4415	1	RRUS	16.5" X 13.4" X 5.9"	46 LBS	212R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRUS	19.7" X 17.0" X 7.2"	55 LBS	212R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 6.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A	N/A

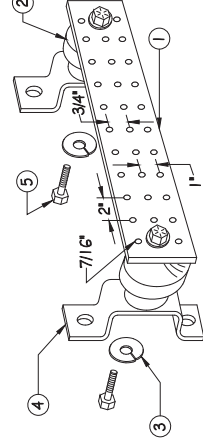


### POLE GROUNDING DETAIL

1 NTS

### EXOTHERMIC WELD DETAILS

4 NTS

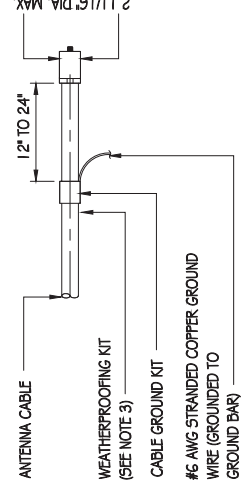


NOTES:

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

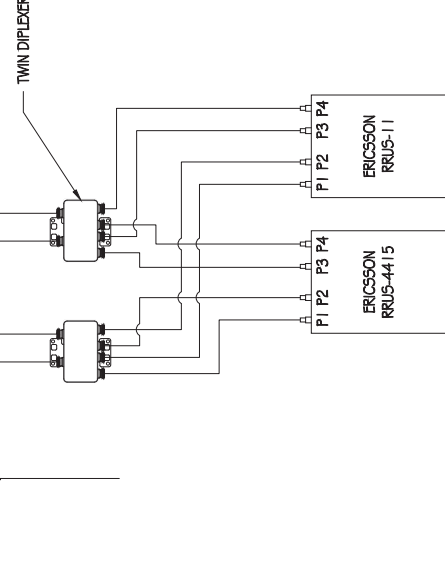


NOTES:

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.)

### GND KIT DETAIL

6 NTS

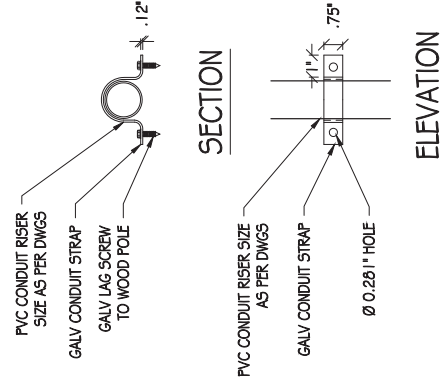


### WIRE DIAGRAM DETAIL

3 NTS

### CONDUIT RISER DETAIL

2 NTS



### CONDUIT RISER DETAIL

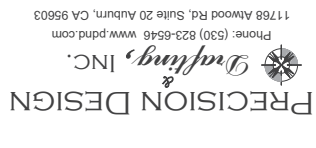
2 NTS



ART MOBILITY  
5001 DECUITRE PARKWAY  
SAN RAMON, CA 94583



Infrastructure experts. Smart cell leaders.  
36 DECUITRE PARK, SUITE 210  
RIVINE, CA 92614



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



CRAN\_RSFR\_LOSAO\_05

ROW ADJCT TO 49 SAN JUAN CT  
LOS AUTOS, CA 94022

ISSUE STATUS	
Δ	DESCRIPTION
10/30/18	CD 90%

DRAWN BY: T. JONES  
CHECKED BY: T. DCARLO  
APPROVED BY: B. McCOMB  
DATE: 10/30/18

SHEET TITLE:  
SINGLE-LINE DIAGRAM & DETAILS

SHEET NUMBER

E-1











# at&t

SITE ID:  
SITE ADDRESS:

CRAN\_RSFR\_LOSAO\_05  
49 SAN JUAN CT  
LOS ALTOS, CA 94022

PM#:  
SITE TYPE:  
POLE OWNER:  
FA LOCATION:  
USID:

114474352  
BRAND NEW PG&E POLE #TBD  
PG&E  
14816594  
198295



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



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

## 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 170-13-045

SITE ADDRESS: 49 SAN JUAN CT  
LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 45.20" N (37.3958889) NAD 83

LONGITUDE: 122° 06' 47.63" W (-122.1132306) NAD 83

GROUND ELEVATION: ±94.9' AMSL

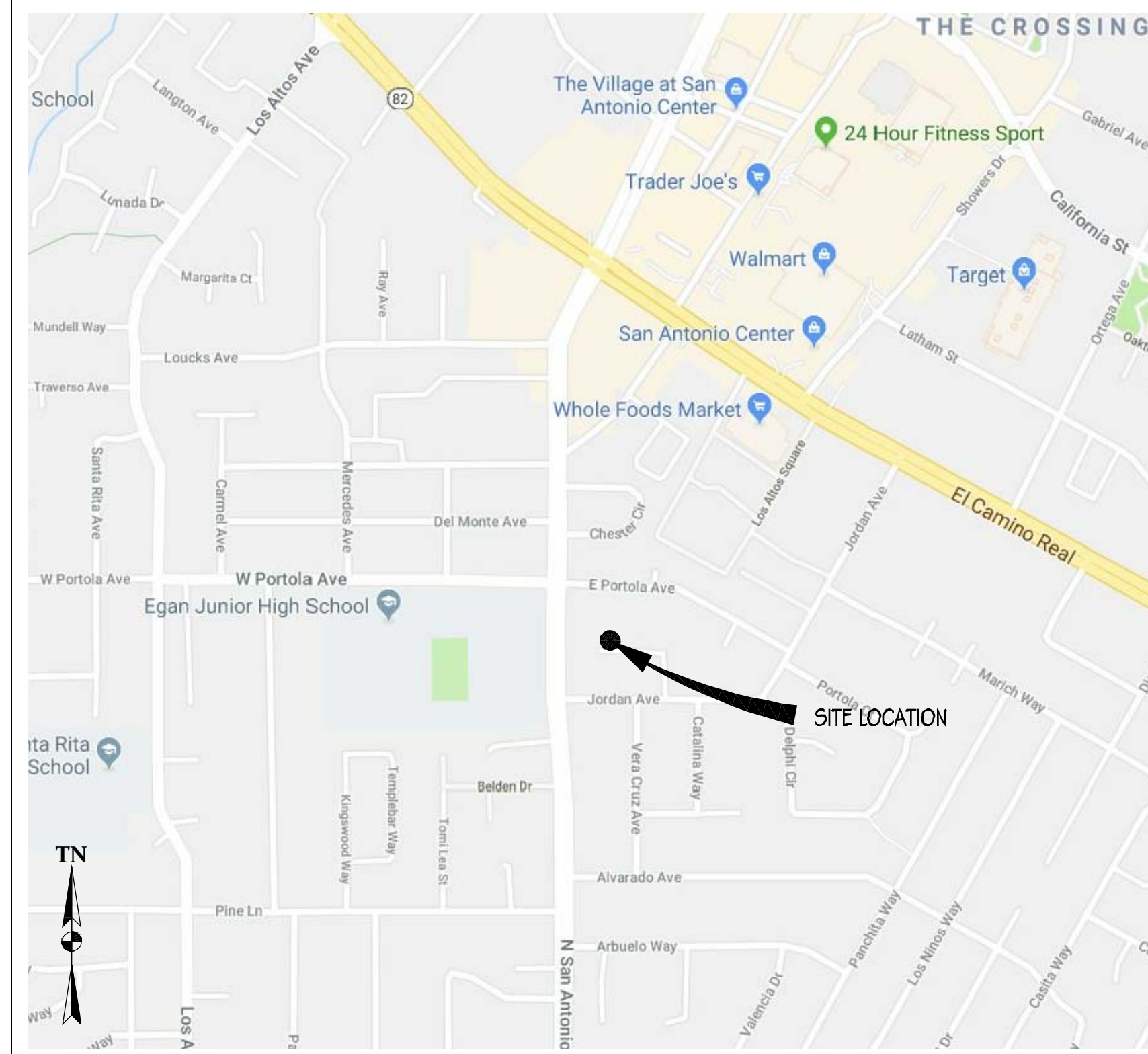
ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

PG&E SAP ID: 100508817

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 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
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:

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: 49 SAN JUAN CT, 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 MIDDLE LANE 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 21.5 MI
6. TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880 0.2 MI
7. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262 S MISSION BLVD 0.3 MI
8. MERGE ONTO CA-262 S MISSION BLVD 0.6 MI
9. USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD INTERSTATE 880 S/SAN JOSE 0.9 MI
10. MERGE ONTO I-880 S 3.1 MI
11. USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
12. CONTINUE ONTO CA-237 W 8.4 MI
13. KEEP LEFT TO CONTINUE ON CA-237 W/SOUTH BAY FWY 0.5 MI
14. TURN RIGHT ONTO EL CAMINO REAL 2.3 MI
15. TURN LEFT ONTO JORDAN AVE 0.4 MI
16. TURN RIGHT ONTO SAN JUAN CT 469 FT

END AT: 49 SAN JUAN CT, LOS ALTOS, CA 94022

ESTIMATED TIME: 50 MINS ESTIMATED DISTANCE: 39.9 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.

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

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT WITHOUT THE WRITTEN CONSENT OF PRECISION DESIGN & DRAFTING, INC.



CRAN\_RSFR\_LOSAO\_05

49 SAN JUAN CT  
LOS ALTOS, CA 94022

### ISSUE STATUS

△	DATE	DESCRIPTION
	10/30/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 07/25/19

SHEET TITLE:

TITLE SHEET

SHEET NUMBER

T-1



## GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC 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.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYORS 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 CAREFUL ELEMENTS 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.
- 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.
- DO NOT EXCAVATE OR DISTURB BEYOND 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 VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS 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 HIS/HER OWN RISK AND EXPENSE.

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 AND/OR FIELD TILE ENCOUNTERED/ DISRUPTED 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 "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.

13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

14. INCLUDE MISC ITEMS PER AFWI WIRELESS SPECIFICATIONS.

15. ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHUTDOWN SIGNALS) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RUGS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.

16. FOUNDED RF WAC MARKING 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 STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN USING A DURABLE OUTDOOR PAINT.

18. CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, & 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		PLYWOOD
	TELEPHONE BOX		SAND
	LIGHT POLE		WOOD CONT.
	FND. MONUMENT		WOOD BLOCKING
	SPOT ELEVATION		STEEL
	SET POINT		CENTERLINE
	REVISION		PROPERTY 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

- 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.
- 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.
- 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.
- 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 EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER AND GROUNDING PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.

## APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- 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, ASD, NINTH EDITION
  - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
  - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
  - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
  - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
  - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
  - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
  - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
  - ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

## GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
- IN STREET SURFACE TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 1" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BACKFILL.
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #1&6 WARNING TAPE ABOVE RING.

## GENERAL GROUNDING NOTES

- 5/8" x 10' ROD, CAD WELD BELOW GRADE.
- GROUND TESTED AT 5 OHMS OR LESS.
- #2 GROUND AND BOND WIRE.
- GROUND 2" MIN FROM POLE.
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBD OR STRONG BOX.
- WOOD MOUNDING, STAPLED EVERY 3" AND AT EACH END, UNLESS OTHERWISE NOTED.

## GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUBS SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

## TYPICAL R.O.W. POLE CONSTRUCTION NOTES

- CABLE NOT TO IMPEDE 15' CLEAR SPACE OFF POLE FACE.
- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
- NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
- ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMBERS TO BE FILLED.
- 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
- USE 90° CONNECTOR AT CABLE CONNECTION FOR OMNI DOWN ANTENNAS.
- USE CABLE CLAMPS TO SECURE CABLE TO ARMS, PLACE 2" T-MOBILE CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
- USE 1/2" DIA. CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
- FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

## ABBREVIATIONS

A	ANCHOR BOLT	HT	HEIGHT
AB	ABOVE	ICB	ISOLATED COPPER GROUND BUSH
ABV	ABOVE	IN, (I)	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
ADD	ADDITIONAL	LB, (L)	POUNDS
AFF	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET (FOOT)
AG	AMPERE INTERRUPTING CAPACITY	LTH	LENGTH
ALUM	ALUMINUM	L	LONGITUDINAL
ALT	ALTERNATE	LP5	LOW PRESSURE SODIUM
ANT	ANTENNA	MAS	MASONRY
APPROX	APPROXIMATELY	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MB	MACHINE BOLT
AWG	AMERICAN WIRE GAUGE	MCH	MECHANICAL
BATT	BATTERY	MFR	MANUFACTURER
BD	BOARD	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLK	BLOCK	MNL	MAIN LUGS ONLY
BLDG	BUILDING	MNTD	MOUNTED
BM	BEAM	MNT	MOUNTING
BN	BOUNDARY NAILING	MTL	METAL
BR	BRANDED	MTS	MANUAL TRANSFER SWITCH
BRKR	BREAKER	N	NEUTRAL
BTOW	BARE TINNED COPPER WIRE	NI	NEW
BTS	BASE TRANSMISSION SYSTEM	NO	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BOF	BOTTOM OF FOOTING	NO, (N)	NUMBER
BU	BACK-UP CABINET	NTS	NOT TO SCALE
C	CONDUIT	OH	OVERHEAD
CAB	CABINET	OC	ON CENTER
CANT	CANTILEVERED	OPNG	OPENING
CB	CIRCUIT BREAKER	P	POLE
CP	CAST IN PLACE	PCC	PRECAST CONCRETE
CR	CIRCUIT	PCCS	PERSONAL COMMUNICATION SERVICES
CLS	CLEAR	PH	PHASE
CLR	CLEAR	PLY	PLYWOOD
COL	COLUMN	PNLBD	PANELBOARD
CONN	CONNECTION	PFC	POWER PROTECTION CABINET
CONN	CONNECTION(WOR)	PFC	PRIMARY RADIO CABINET
CONST	CONSTRUCTION	PRI	PRIMARY
CONT	CONTINUED	PSF	POUNDS PER SQUARE FOOT
J	JOINT	PSI	POUNDS PER SQUARE INCH
DL	DOUBLE	PT	PRESSURE TREATED
DEM	DEMAND	QTY	QUANTITY
DEPT	DEPARTMENT	RAD, (R)	RADIUS
DF	DIAGONAL	RCPT	RECEPTACLE
DM	DIMENSION	RCS	REINFORCED CONCRETE
DIAG	DIAGONAL	REINF	REINFORCEMENT(ING)
DN	DOWN	REQD	REQUIRED
DWG	DRAWING(S)	RSD	RIGID GALVANIZED STEEL
DWL	DOWELS	SAF	SAFETY
EACH	EACH	SCH	SCHEDULE
EA	EMERGENCY GENERATOR RECEPTACLE	SCH	SOFT DRAWN BARE COPPER
EL	ELEVATION	SEC	SECONDARY
ELEC	ELECTRICAL	SH	SHIELD
ELEV	ELEVATOR	SIM	SIMILAR
EMT	ELECTRICAL METALLIC TUBING	SN	SOLID NEUTRAL
EN	EDGE NAIL	SPEC	SPECIFICATIONS
ENCL	ENCLOSURE	SQ	SQUARE
ENGR	ENGINEER	SS	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
DST, (D)	EXISTING	STR	STRUCTURAL
EXP	EXPANSION	SURF	SURFACE
EXT	EXTERIOR	SW	SWITCH
FAB	FABRICATION	TEL	TELEPHONE </td
FAC	FACE	TEMP	TEMPORARY
FA	FIRE ALARM	THICK	THICKNESS
FF	FINISH FLOOR	TN	TIE NAIL
FG	FINISH GRADE	TOA	TOP OF ANTENNA
FN	FINISHED	TOC	TOP OF CURB
FLR	FLOOR	TOP	TOP OF FOUNDATION
FLUR	FLUORESCENT	TOP	TOP OF PLATE (PARAPET)
FM	FOUNDATION	TOP	TOP OF STEEL
FOM	FACE OF MASONRY	TOW	TOP OF WALL
FS	FACE OF STUD	TP	TYPICAL
FSW	FACE OF WALL	UG	UNDERGROUND
FS	FINISH SURFACE	UL	UNDERWRITERS LABORATORY INC.
FT, (F)	FOOT (FEET)	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	VOL	VOLT ALTERNATING CURRENT
FU	FUSE	VIF	VERIFY IN FIELD
G	GROUND	W	WAIT OR WIRE
GR	GROWTH (CABINET)	WD	WIDEN(WIDTH)
GA	GAUGE	WI	WITH
GALV	GALVANIZED	WO	WITHOUT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WOOD	WOOD
GLB	GLUE LAMINATED BEAM	WTR	WEATHERPROOF
GND	GROUND	WT	WEIGHT
GPS	GLOBAL POSITIONING SYSTEM	XFR	TRANSFER
GRD	GROUND	XTRM	TRANSFORMER
HDC	HARD DRAWN COPPER WIRE	C	CENTERLINE
HDG	HOT-DIP GALVANIZED	E	PLATE
HDR	HANGER		
HGR	HANGER		
HPS	HIGH PRESSURE SODIUM		



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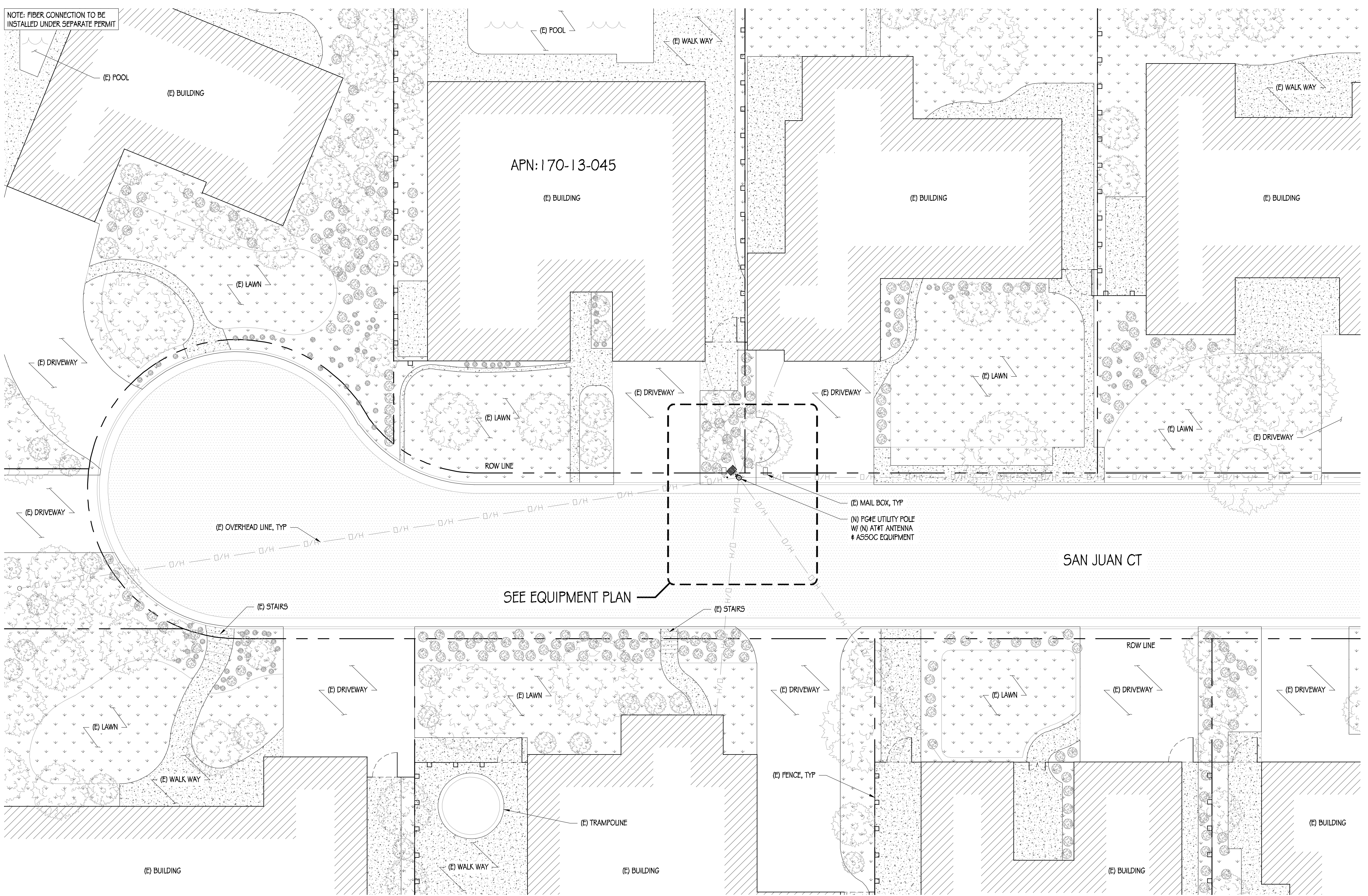
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CHECKED BY:	T. D'CARLO
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DATE:	07/25/19
SHEET TITLE:	

## GENERAL NOTES, LEGEND, & ABBREVIATIONS

SHEET NUMBER

T-2



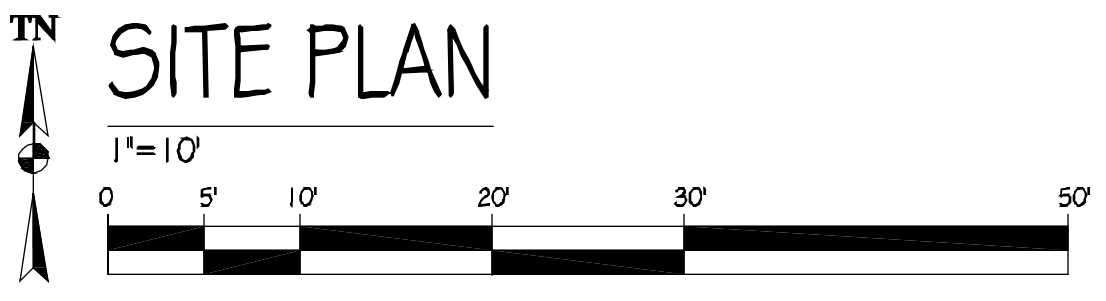


NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT

APN: 170-13-045

SEE EQUIPMENT PLAN

SAN JUAN CT



SITE PLAN



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SITE PLAN

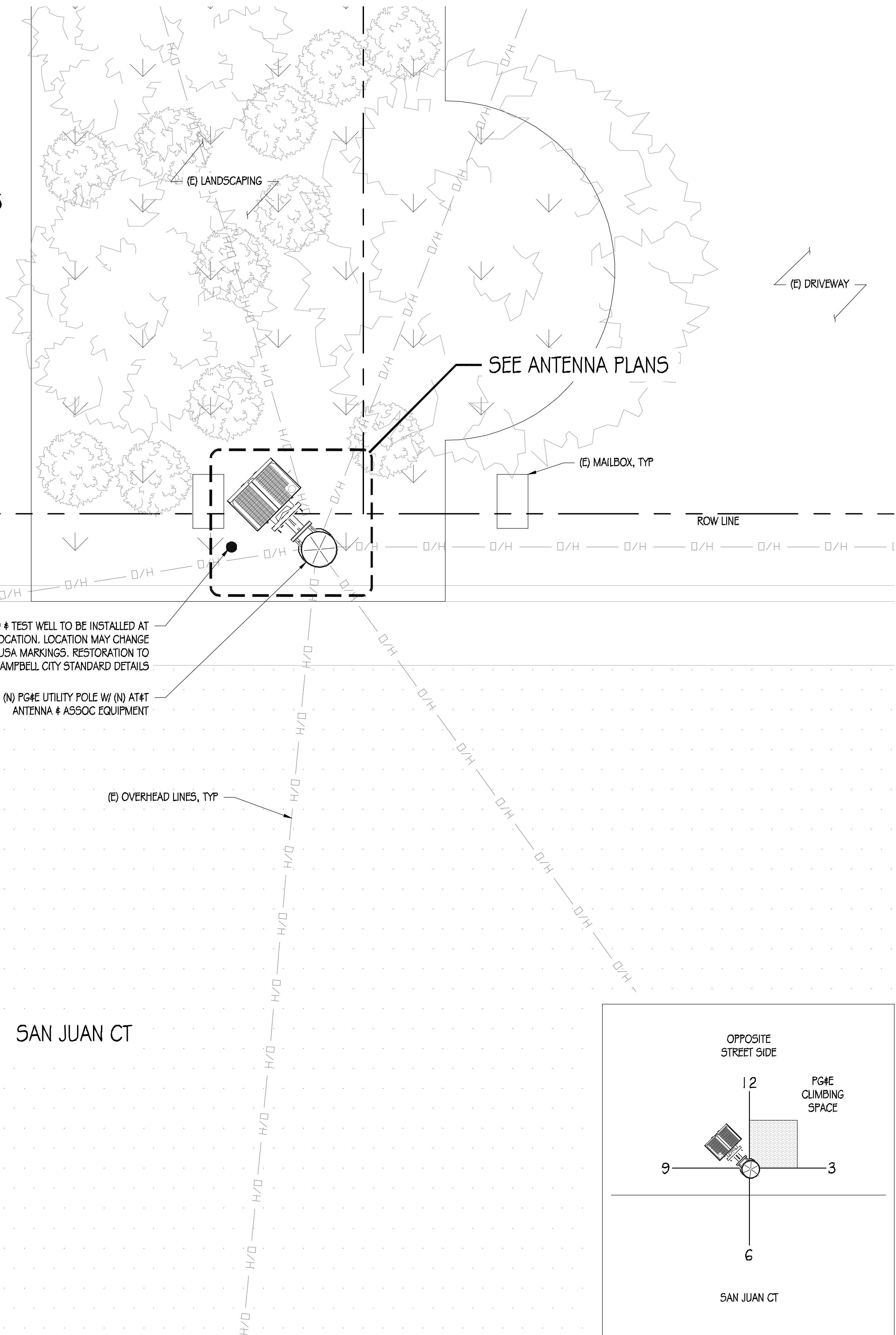
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A-1

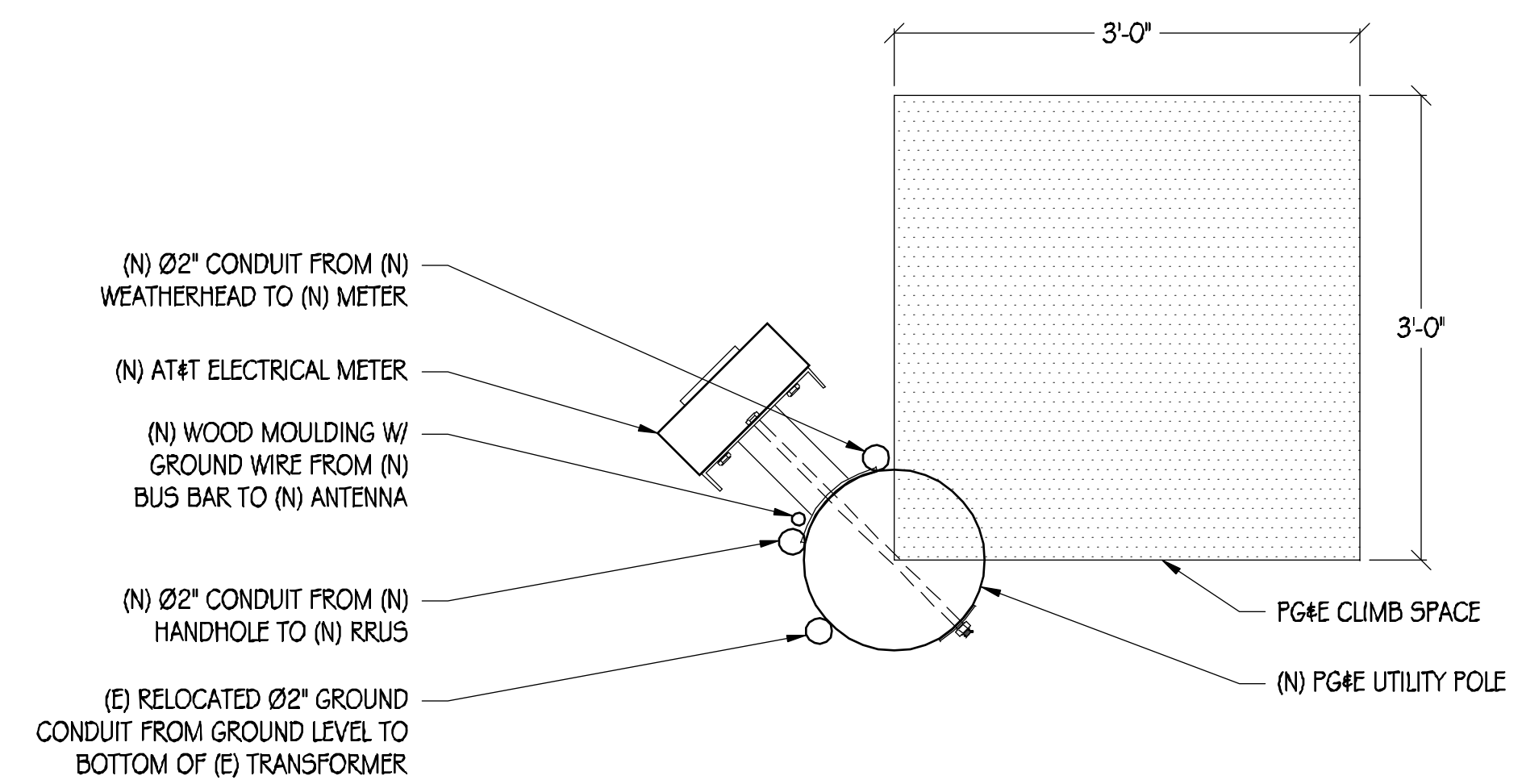
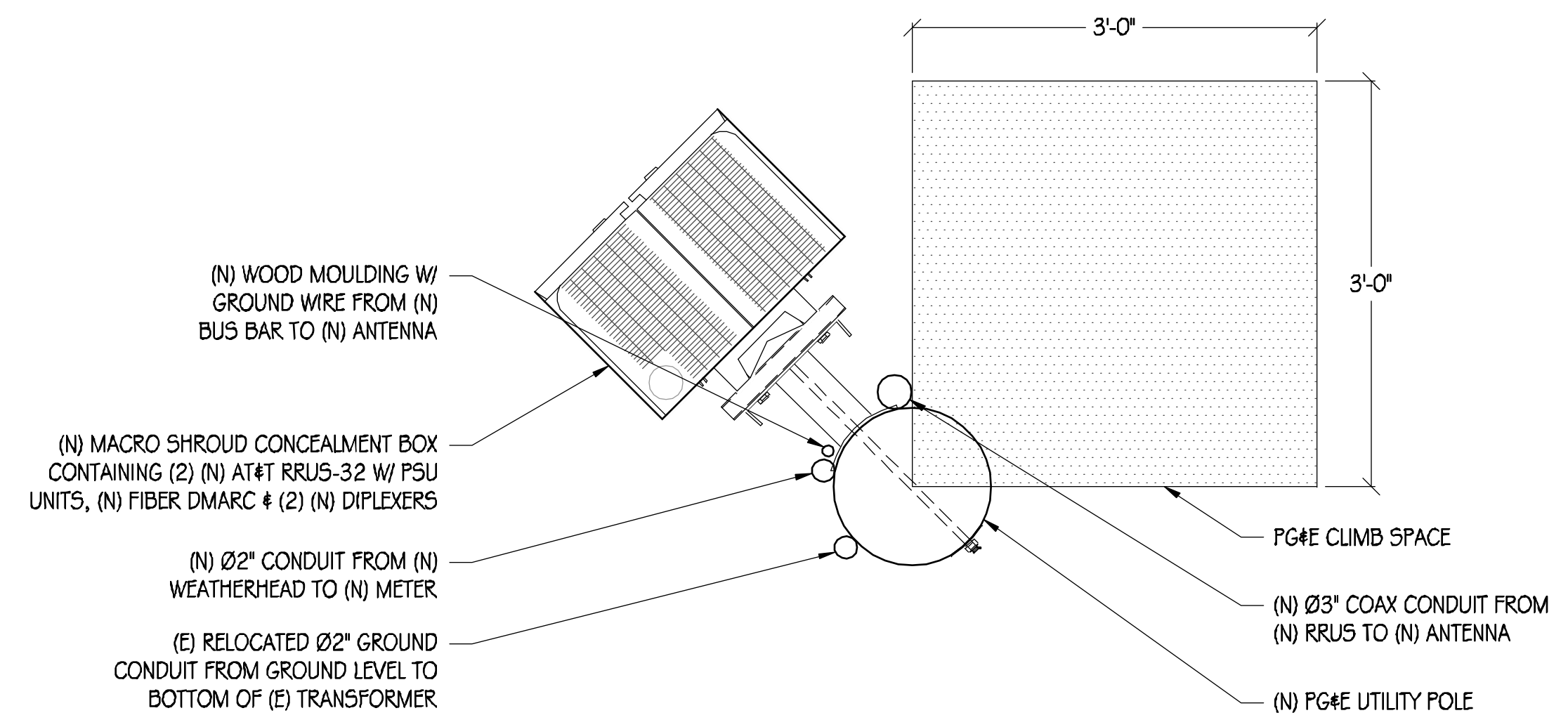
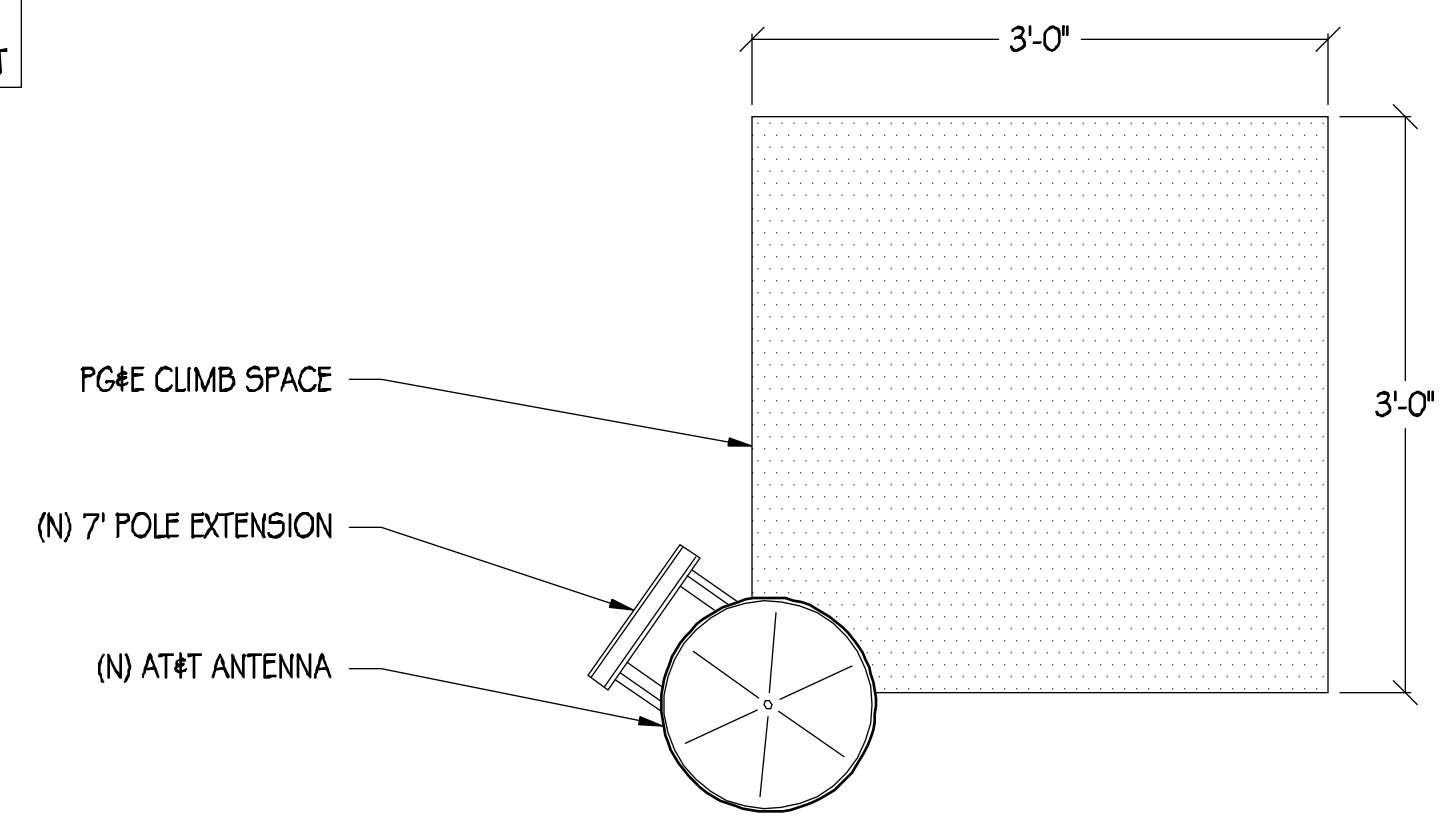


NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.

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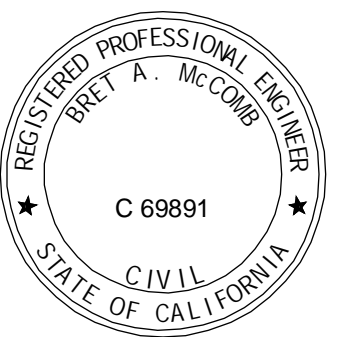


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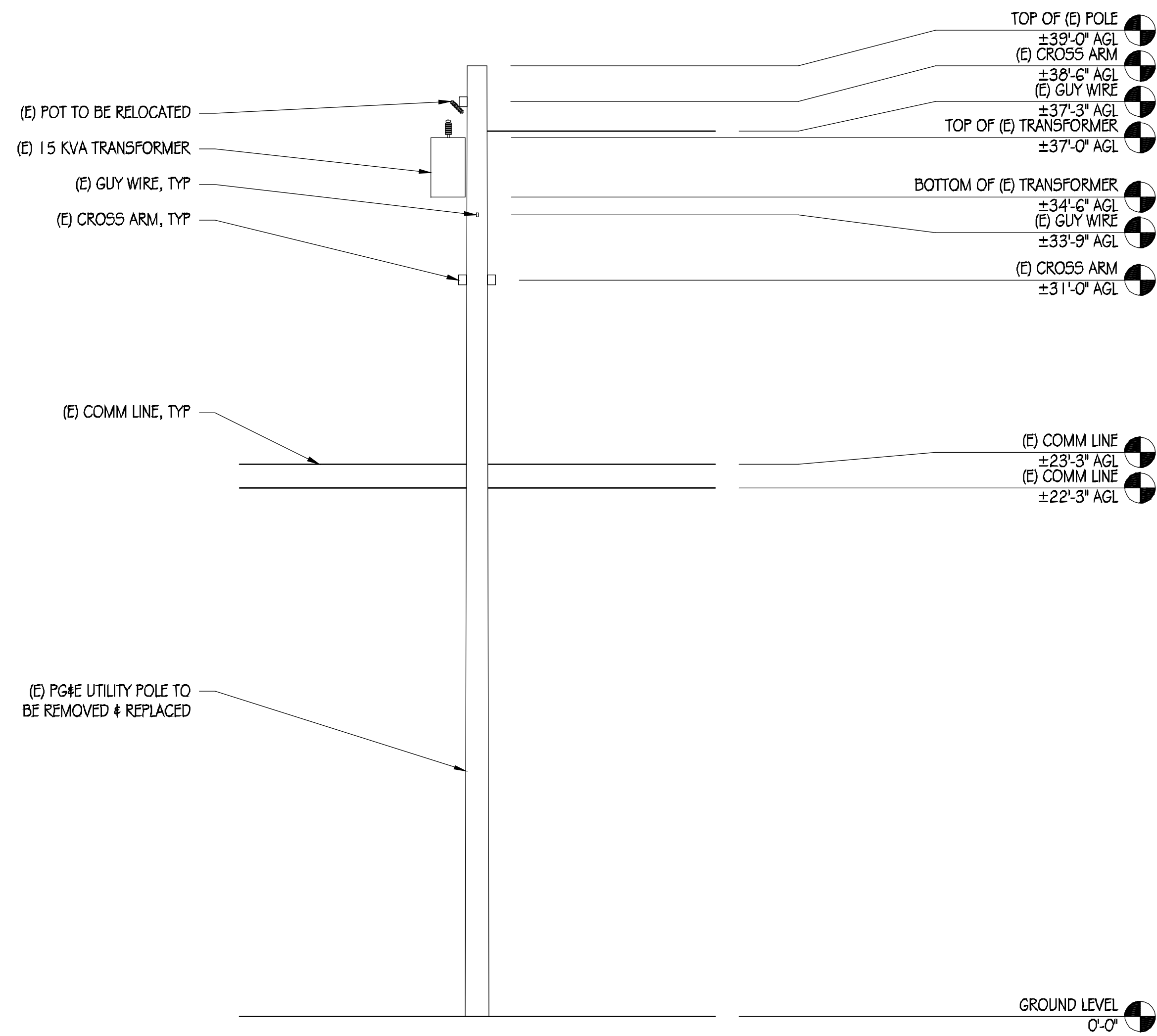
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EQUIPMENT PLAN #  
ANTENNA PLANS

SHEET NUMBER

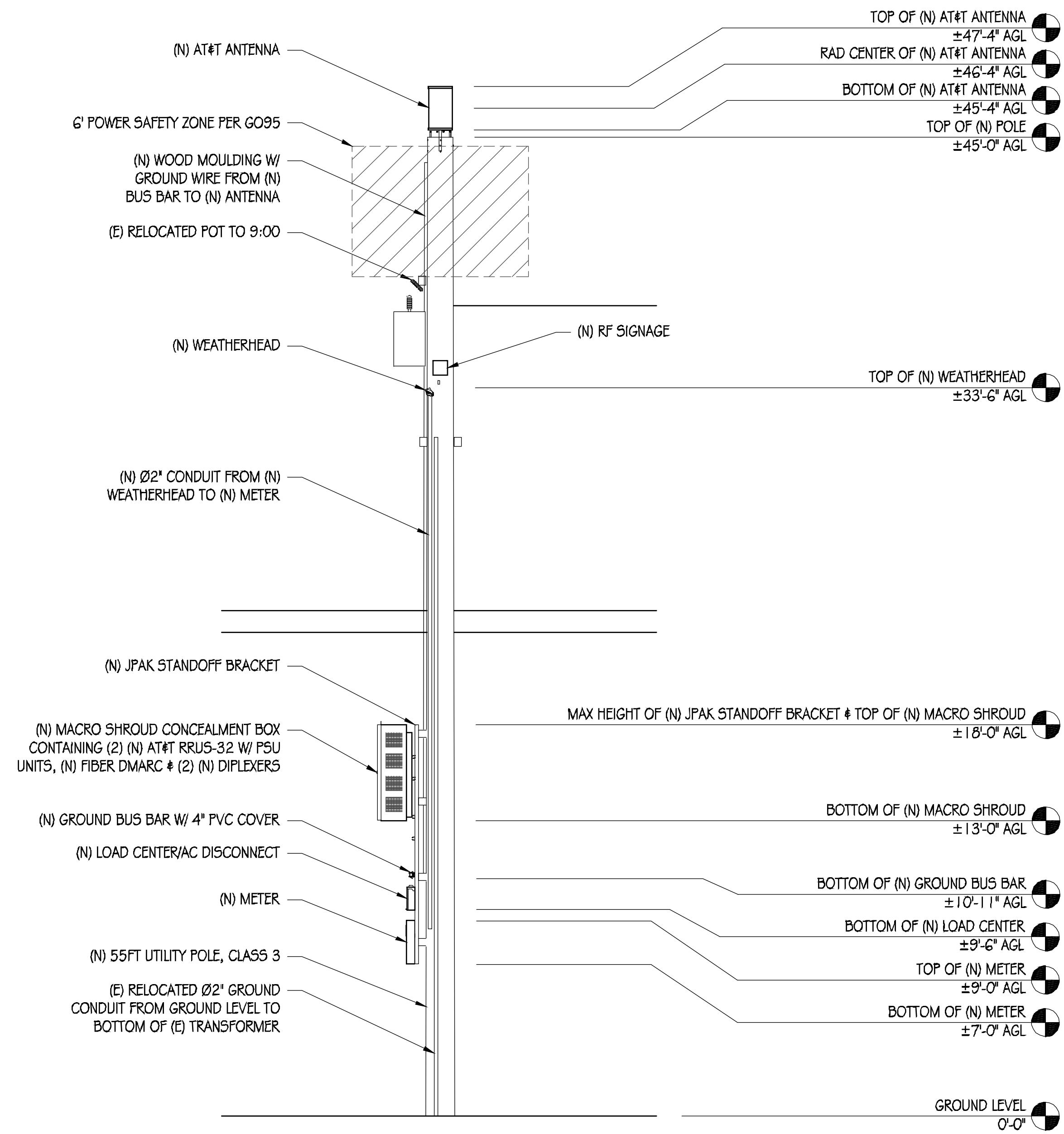
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



### EXISTING NORTH ELEVATION

1/4" = 1'-0"



### NEW NORTH ELEVATION

1/4" = 1'-0"



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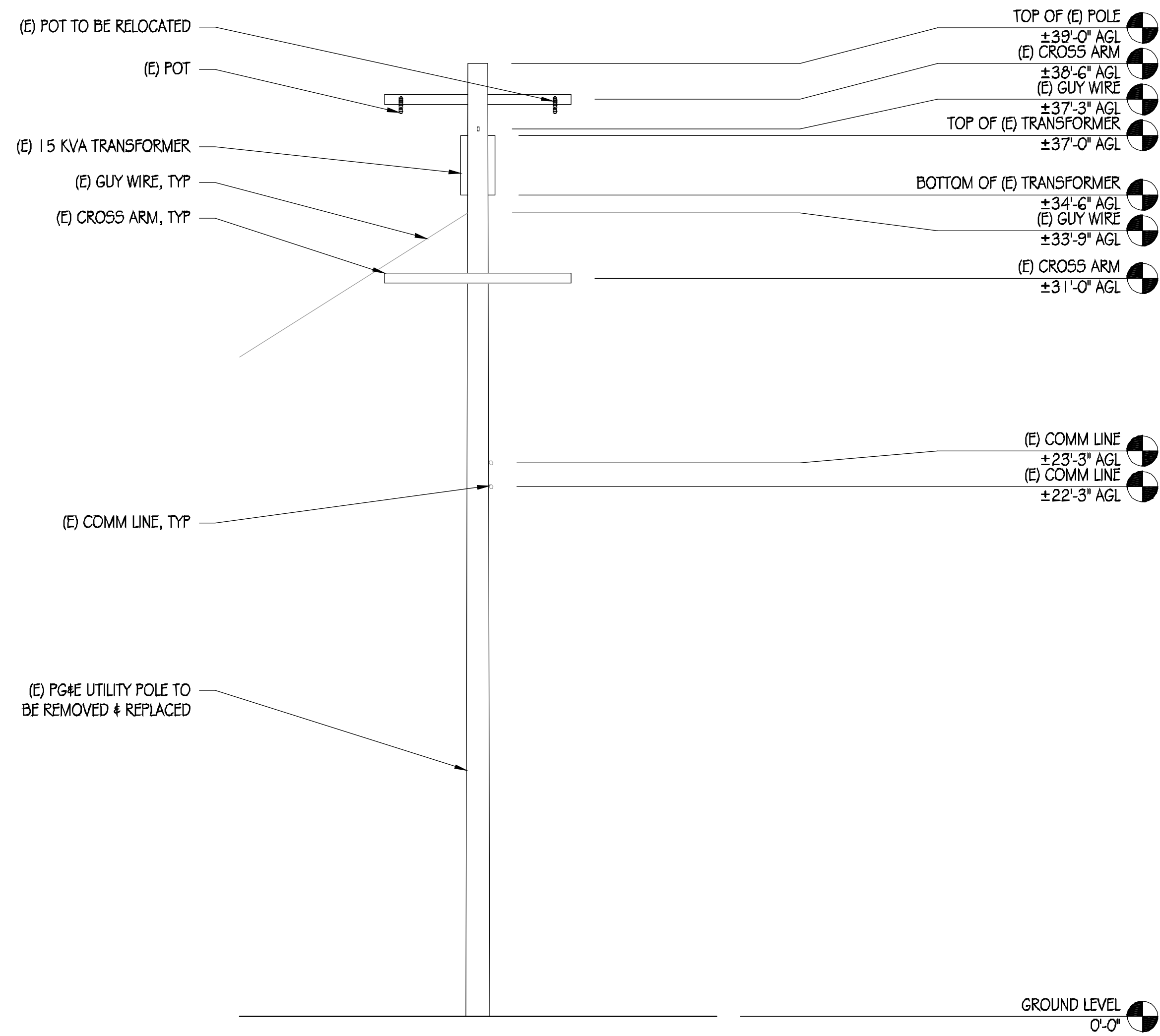
ELEVATIONS

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A-3

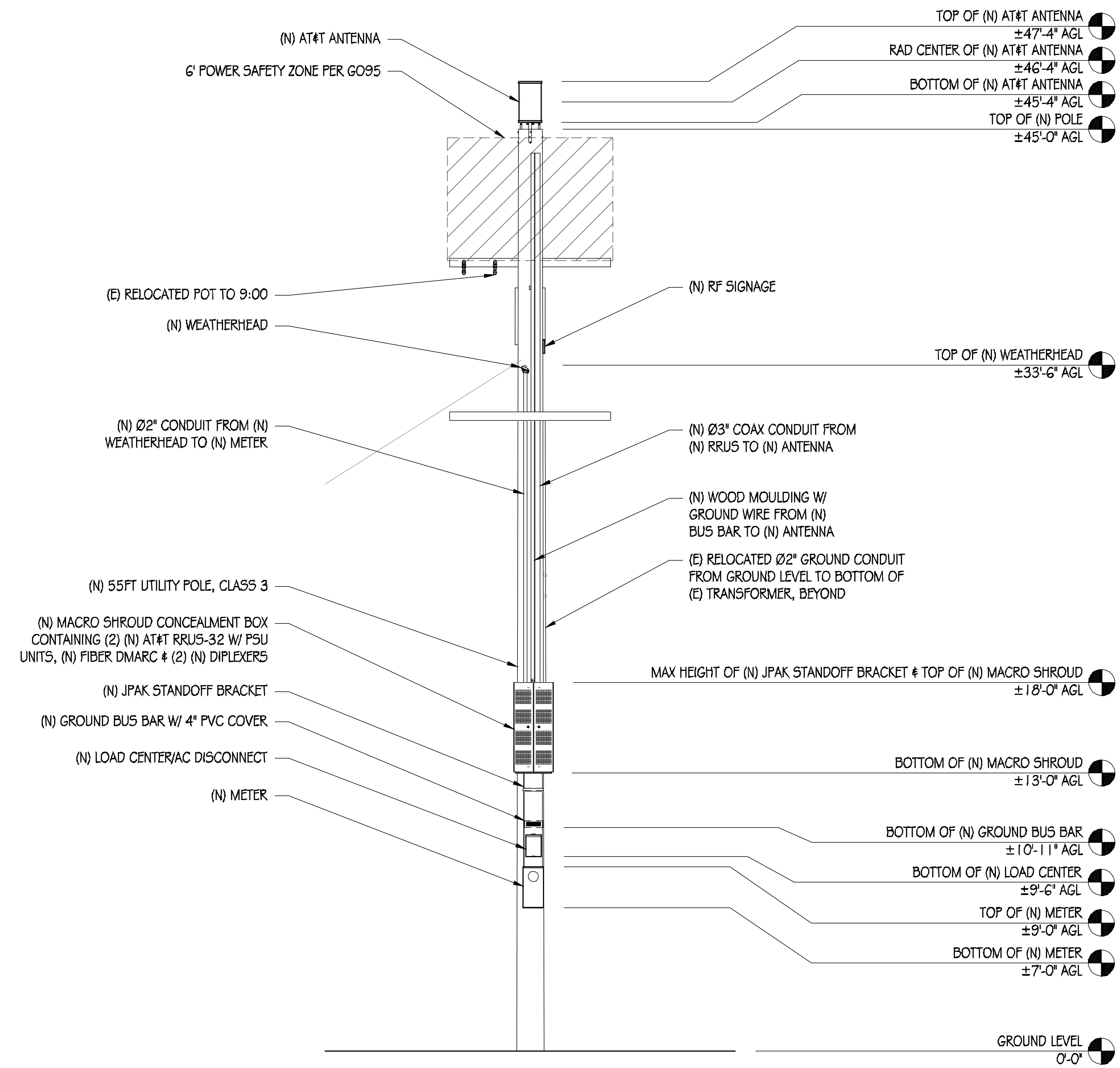


NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



### EXISTING EAST ELEVATION

1/4" = 1'-0"



### NEW EAST ELEVATION

1/4" = 1'-0"



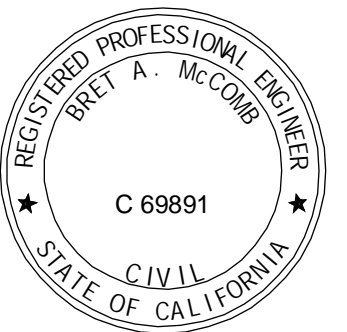
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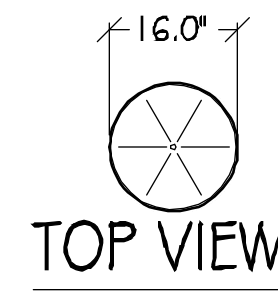
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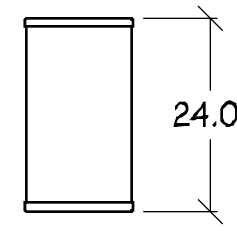
A-4

KMW FX-OM2L10H2-06T

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



TOP VIEW

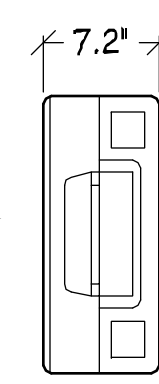


FRONT VIEW

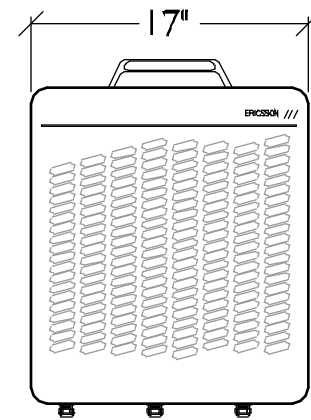
1 ANTENNA  
1/2" = 1'

ERICSSON RRUS-111

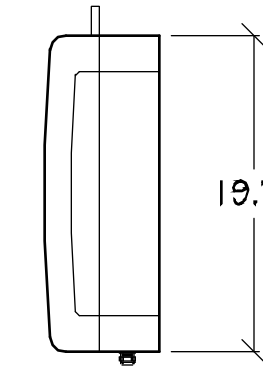
TOTAL WEIGHT: 55 LBS  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

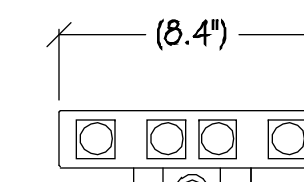


SIDE VIEW

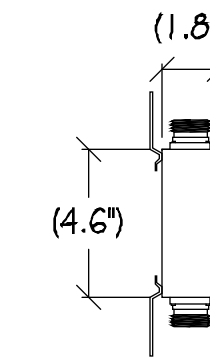
2 RRUS-111 DETAIL  
1" = 1'

COMMSCOPE  
 CBC1923T-4310/  
 E11F13P06

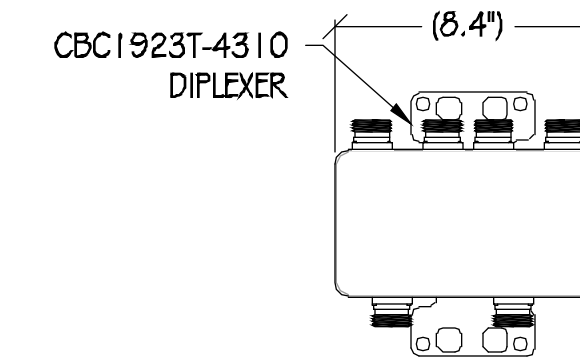
COLOR: GRAY  
 TOTAL WEIGHT: +/- 4.4 LB  
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

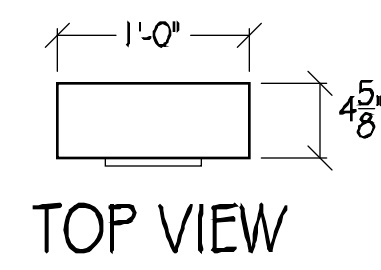


SIDE VIEW



FRONT VIEW

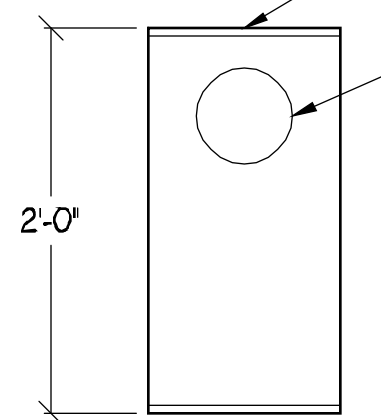
3 DIPLEXER DETAIL  
1" = 6"



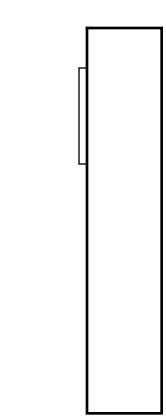
TOP VIEW

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

100 AMP METER



FRONT VIEW

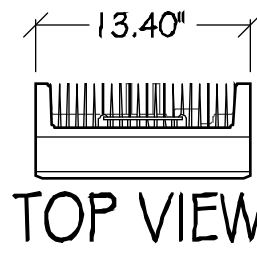


SIDE VIEW

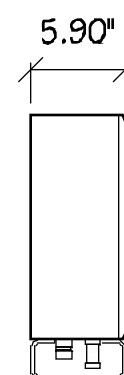
4 METER DETAIL  
1" = 1'

ERICSSON RRUS-4415

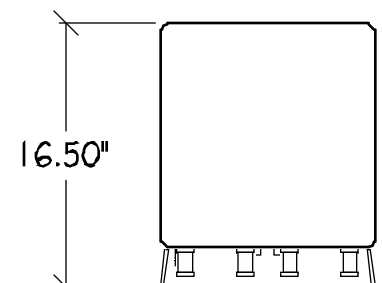
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

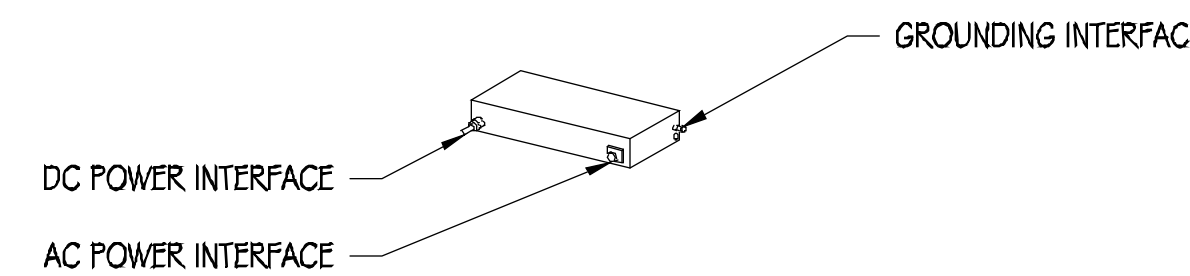


FRONT VIEW

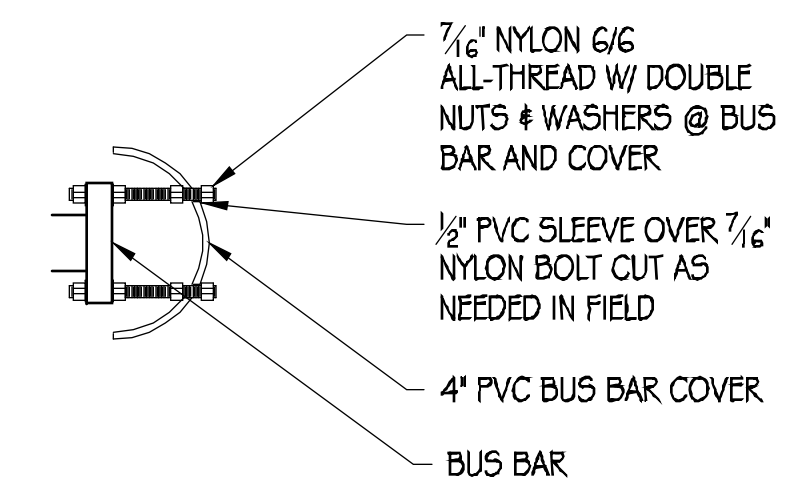
5 RRUS-4415 DETAIL  
1" = 1'

ERICSSON PSU AC 08

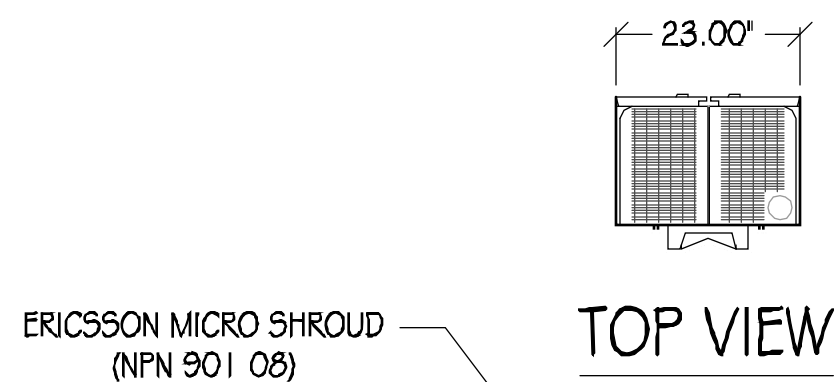
DIMENSIONS: 2.72" X 10.79" X 7.09"  
 WEIGHT: 11.46 LBS



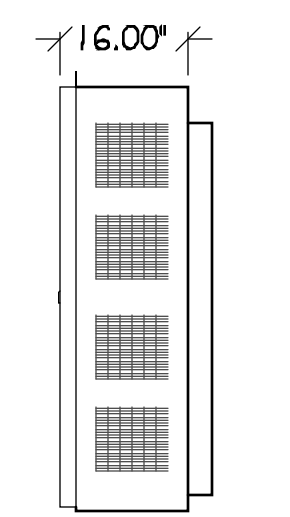
6 AC POWER MODULE  
NTS



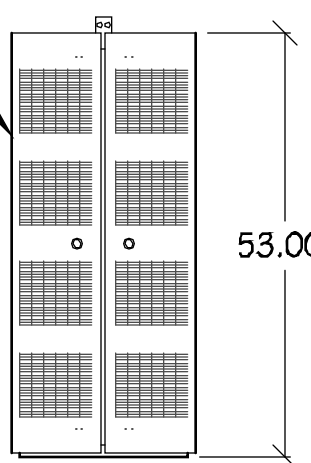
7 BUS BAR COVER  
6" = 1'



TOP VIEW

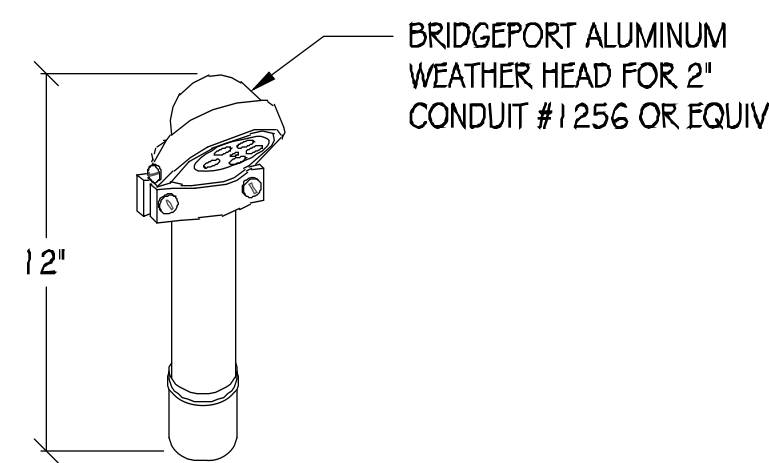


SIDE VIEW



FRONT VIEW

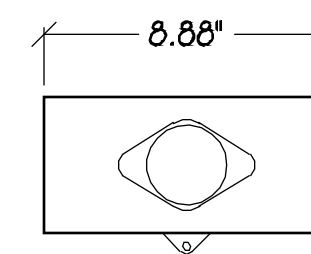
8 MICRO SHROUD CONCEALMENT  
1/2" = 1'



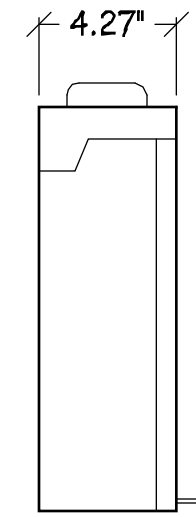
BRIDGEPORT ALUMINUM WEATHER HEAD FOR 2" CONDUIT #1256 OR EQUIV

9 WEATHER HEAD  
NTS

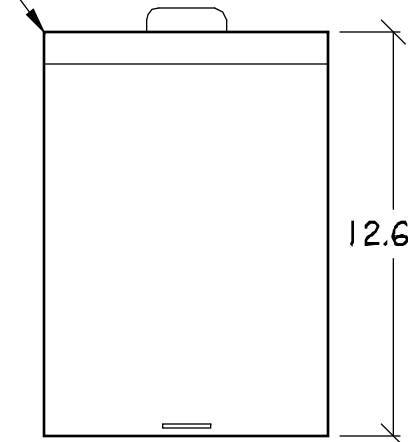
SCHNEIDER ELECTRIC  
 G0612L100RB



TOP VIEW

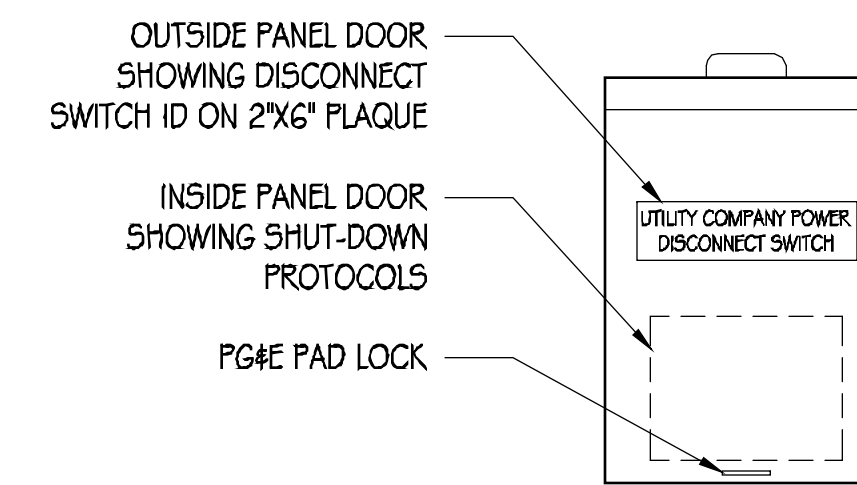


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT  
1" = 6"



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.	
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.	

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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SHEET TITLE:

DETAILS

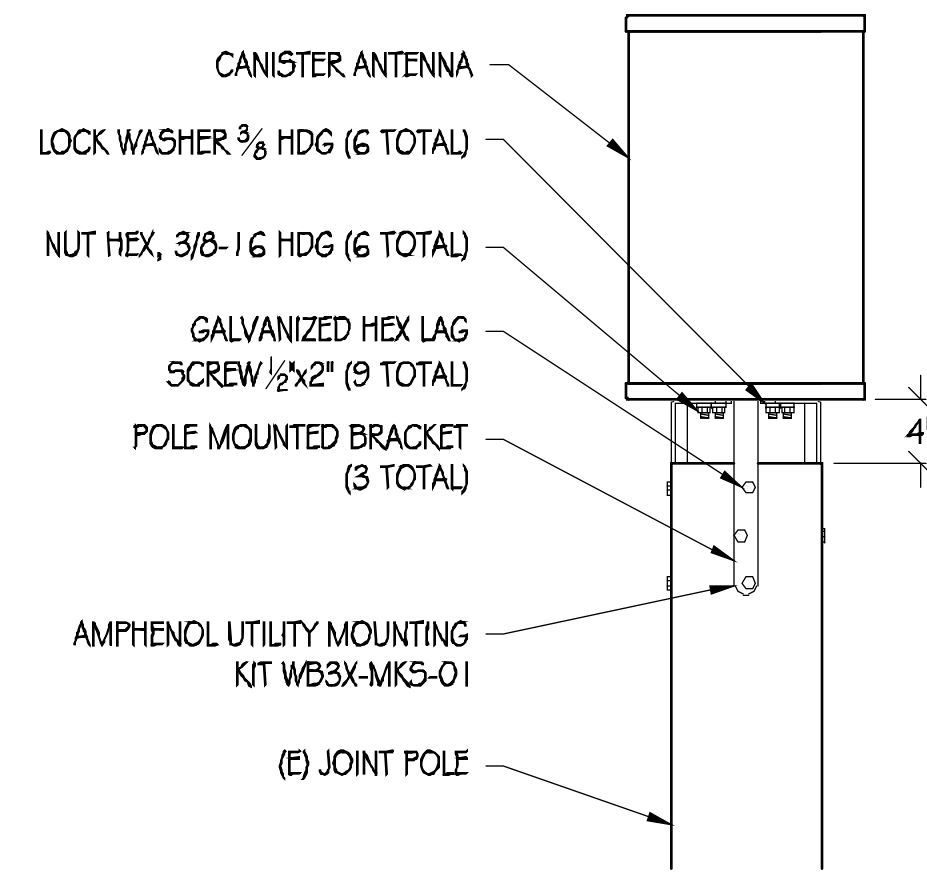
SHEET NUMBER

A-5

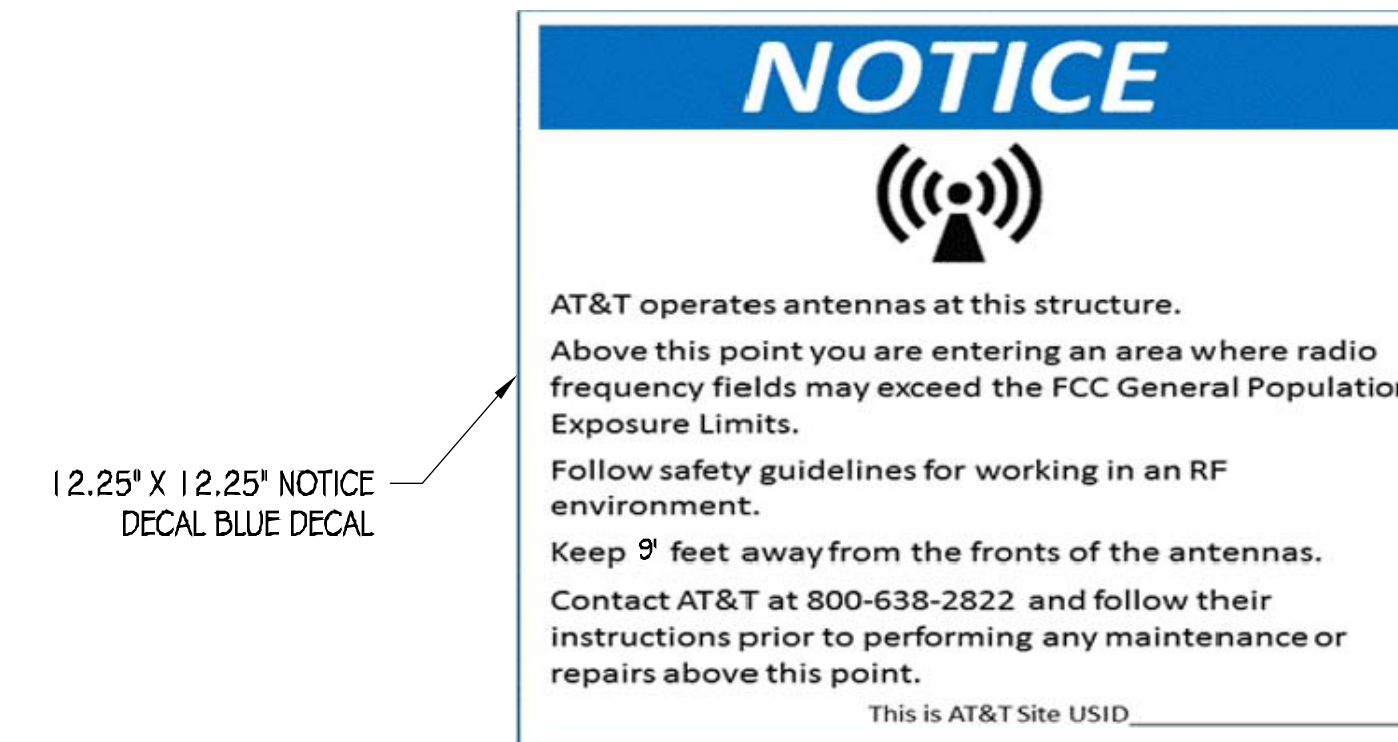


## STRUCTURAL STEEL NOTES:

- 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 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 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.

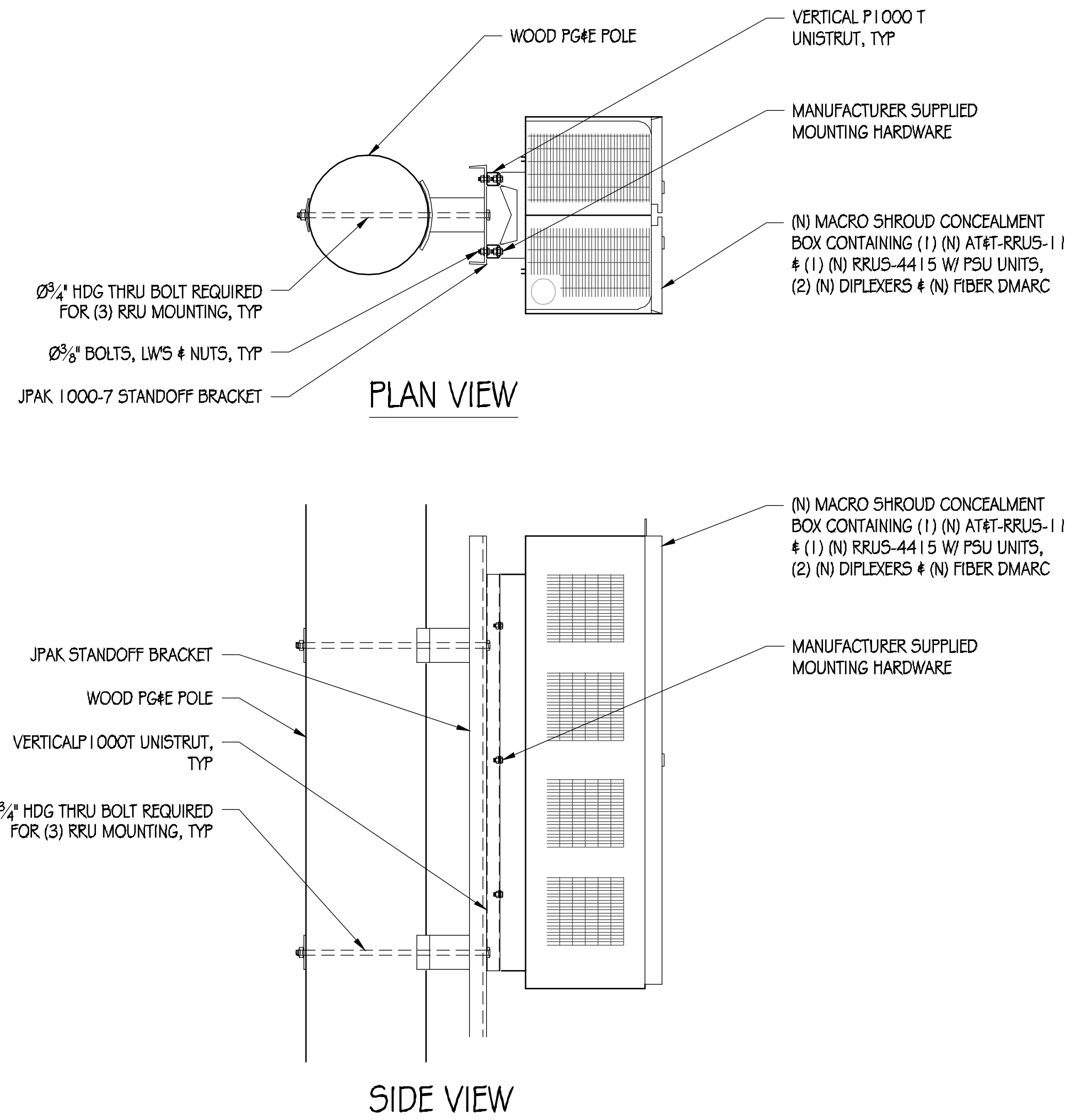


1 POLE-TOP ANTENNA MOUNT DETAIL  
1" = 1'

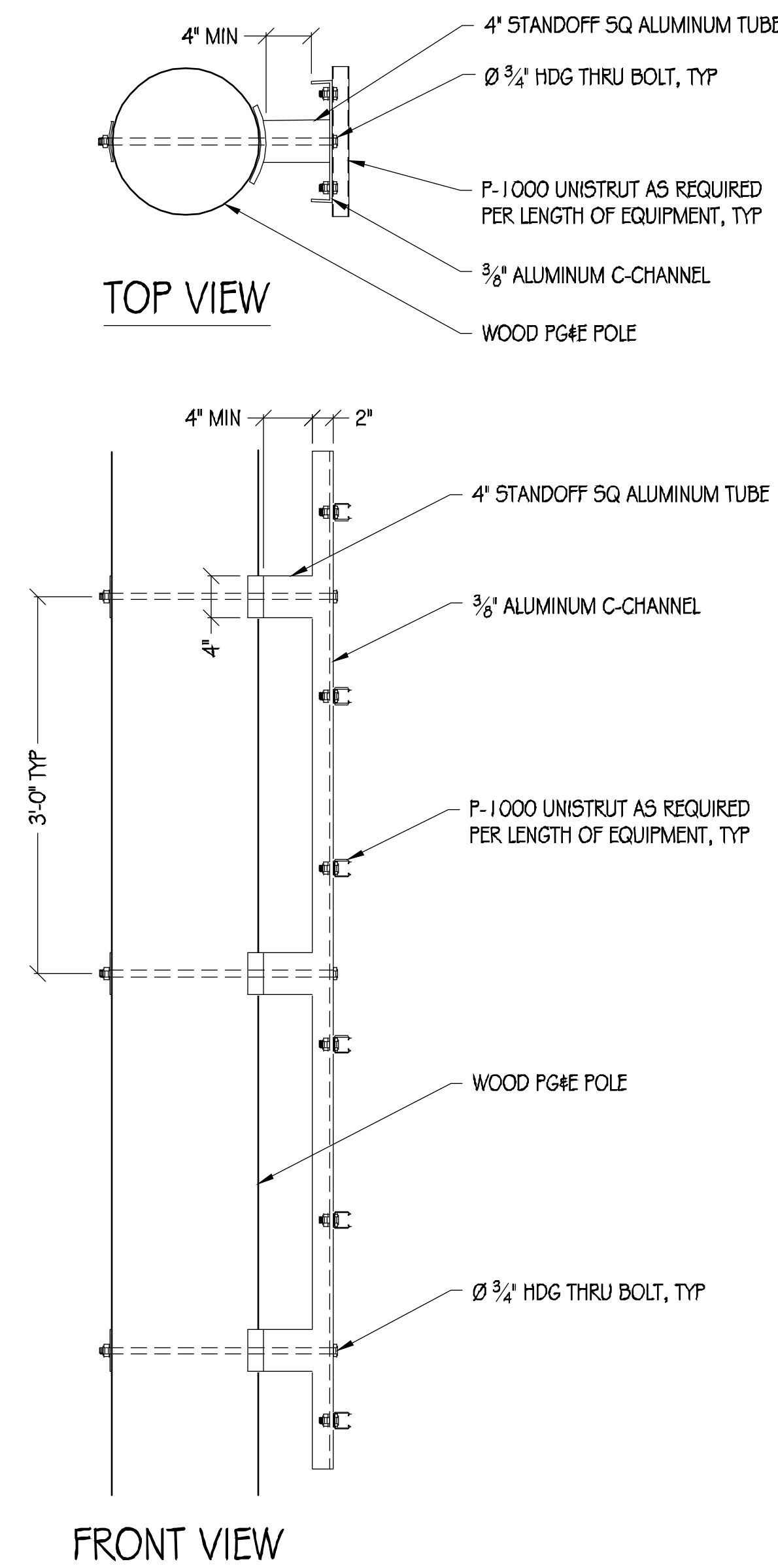


2 NOTICE SIGNAGE  
NTS

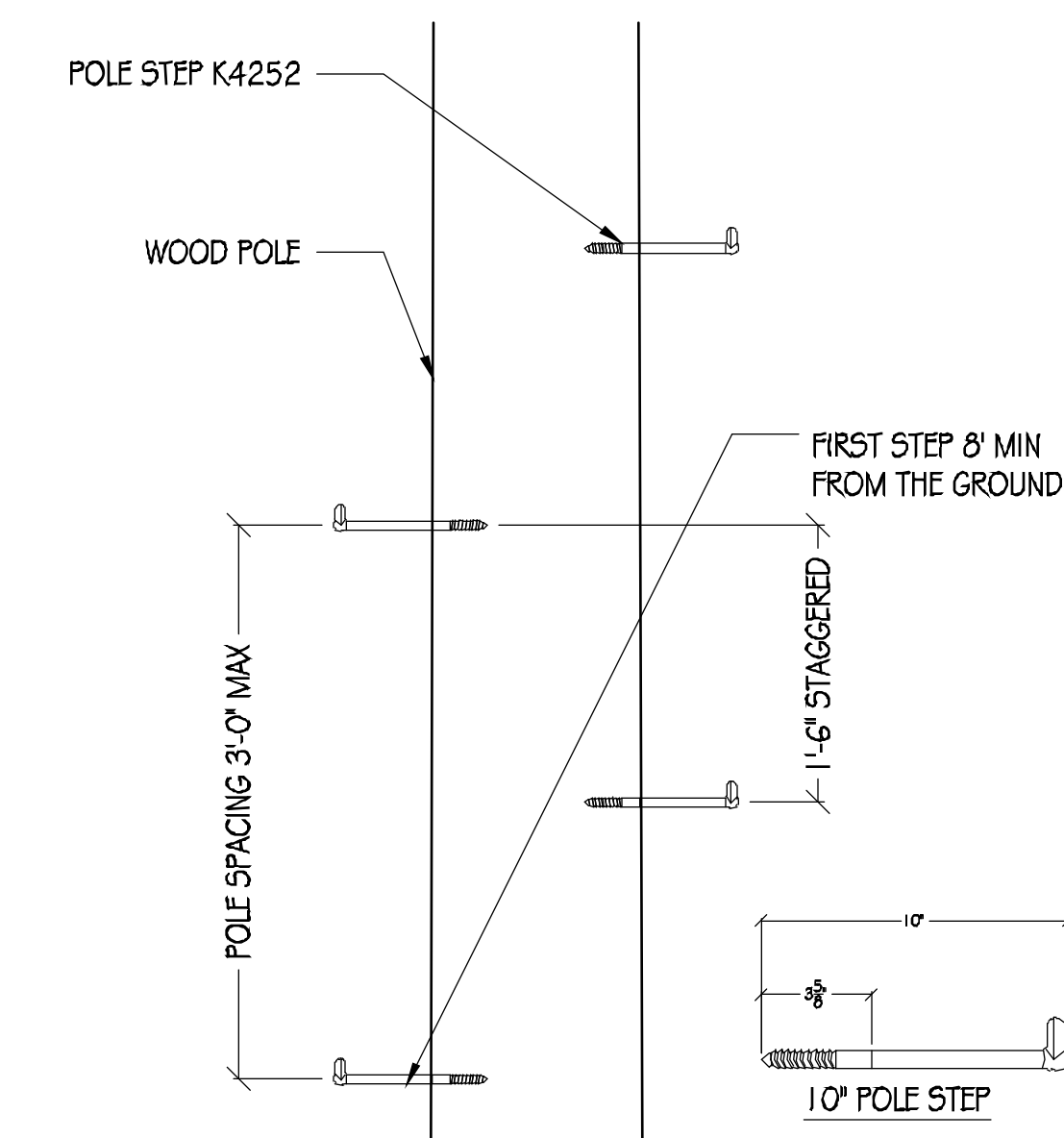
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
  - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA



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



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

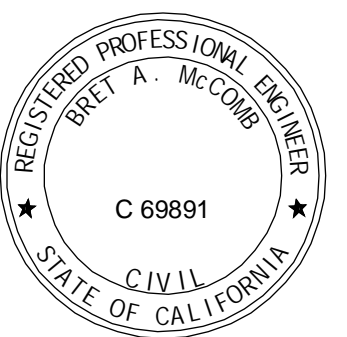


36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

PRECISION DESIGN  
Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com  
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CRAN\_RSFR\_LOSAO\_05

49 SAN JUAN CT  
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	10/30/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMBE

DATE: 07/25/19

SHEET TITLE:

DETAILS

SHEET NUMBER

A-6

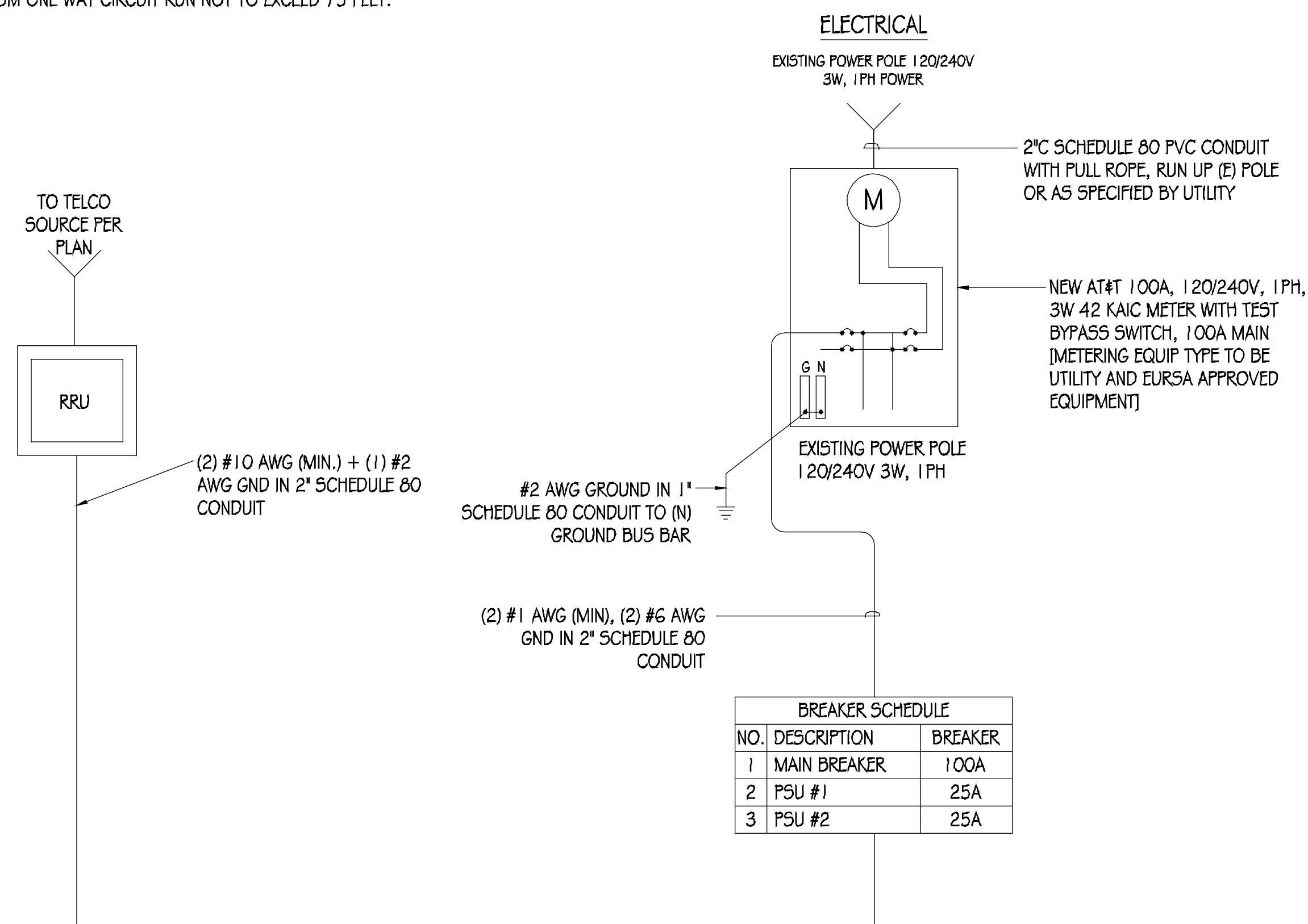


**GENERAL ELECTRICAL NOTES:**

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:**

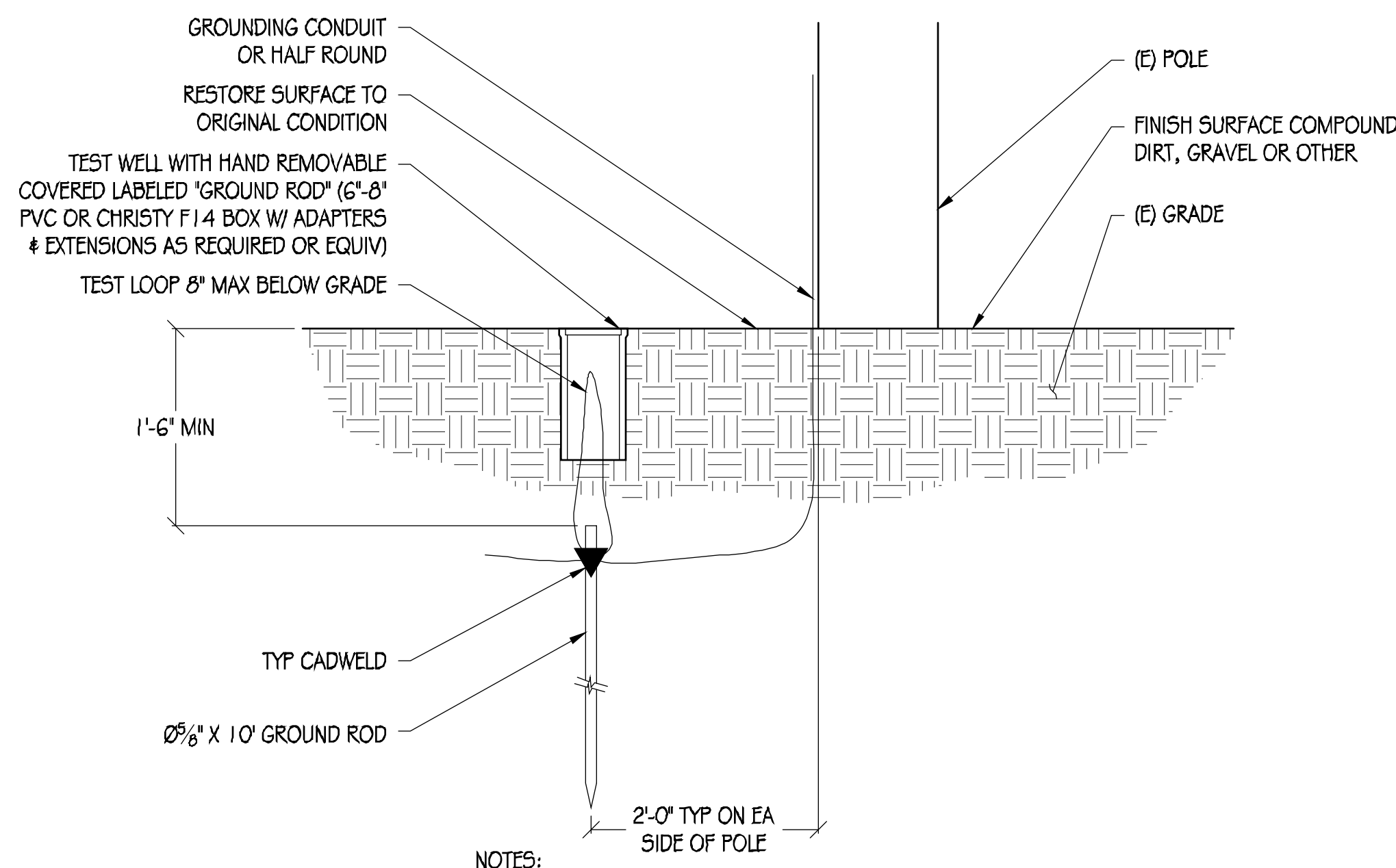
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE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



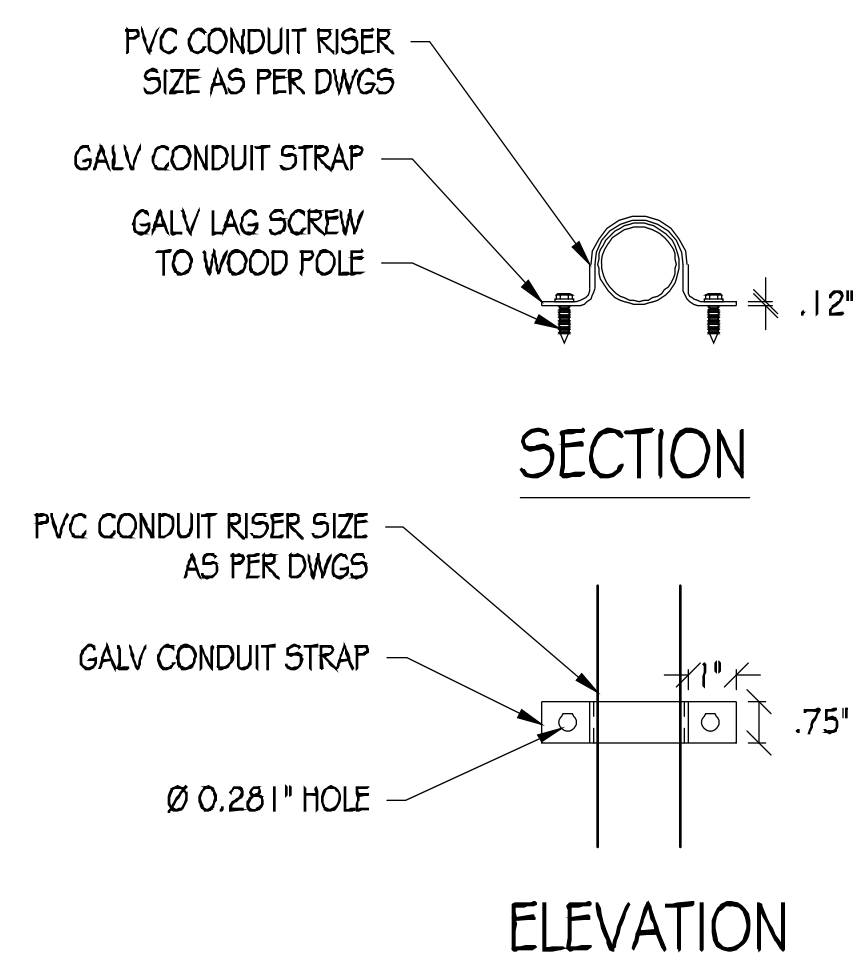
**SINGLE-LINE DIAGRAM**

**LOAD SCHEDULE**

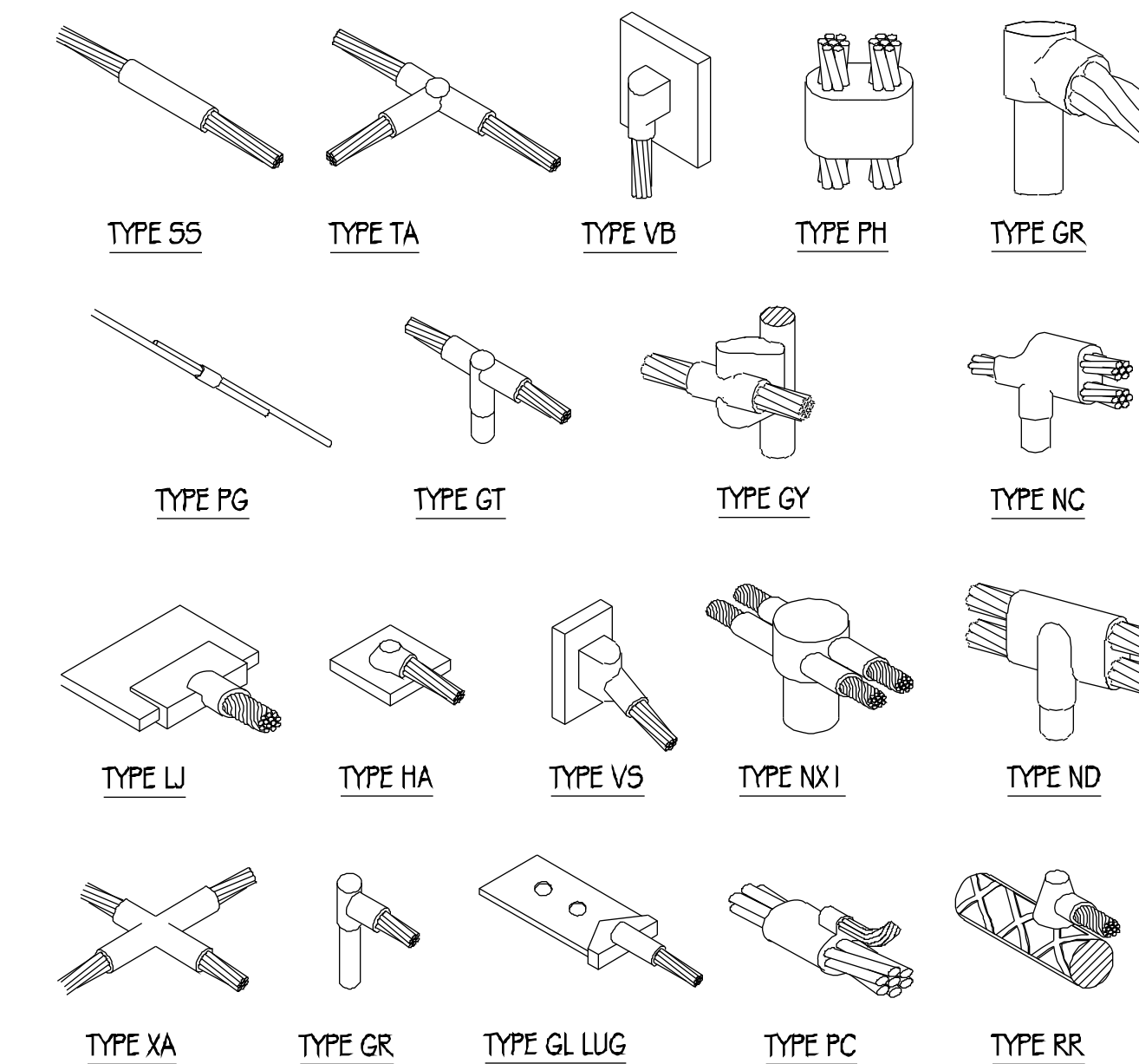
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	HW
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A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



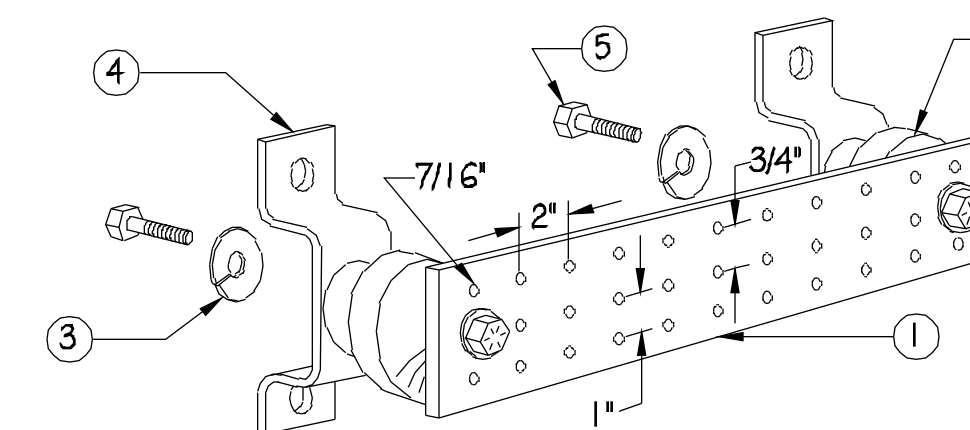
**1 POLE GROUNDING DETAIL**  
NTS



**2 CONDUIT RISER DETAIL**  
NTS



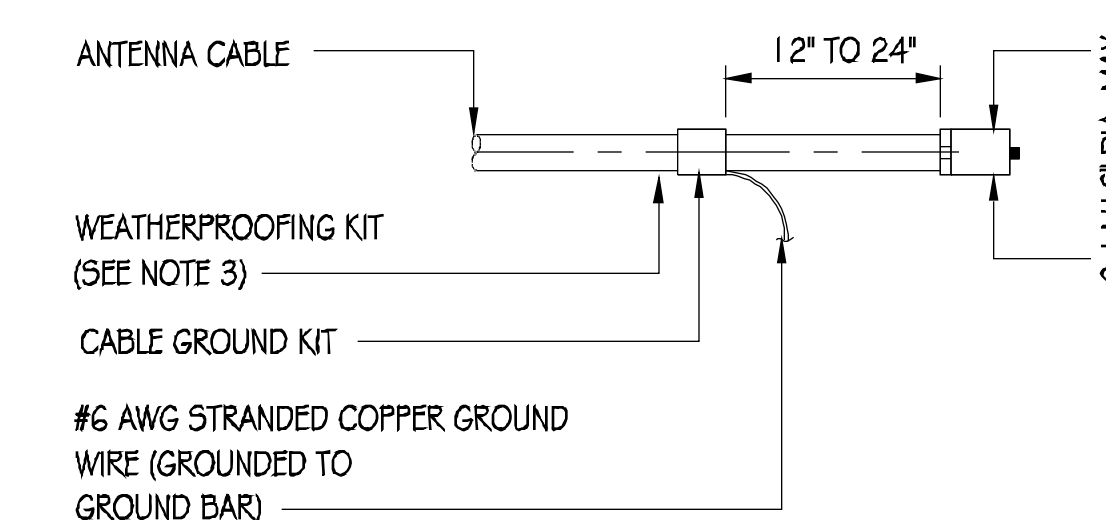
**3 EXOTHERMIC WELD DETAILS**  
NTS



**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.

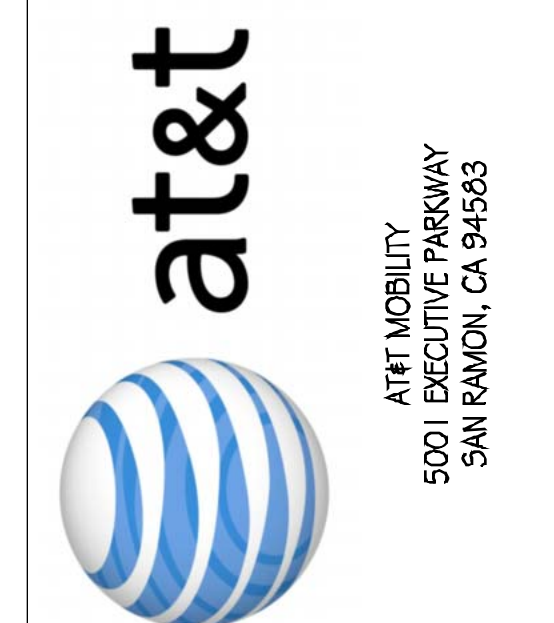
**4 GROUND BAR DETAIL**  
NTS



**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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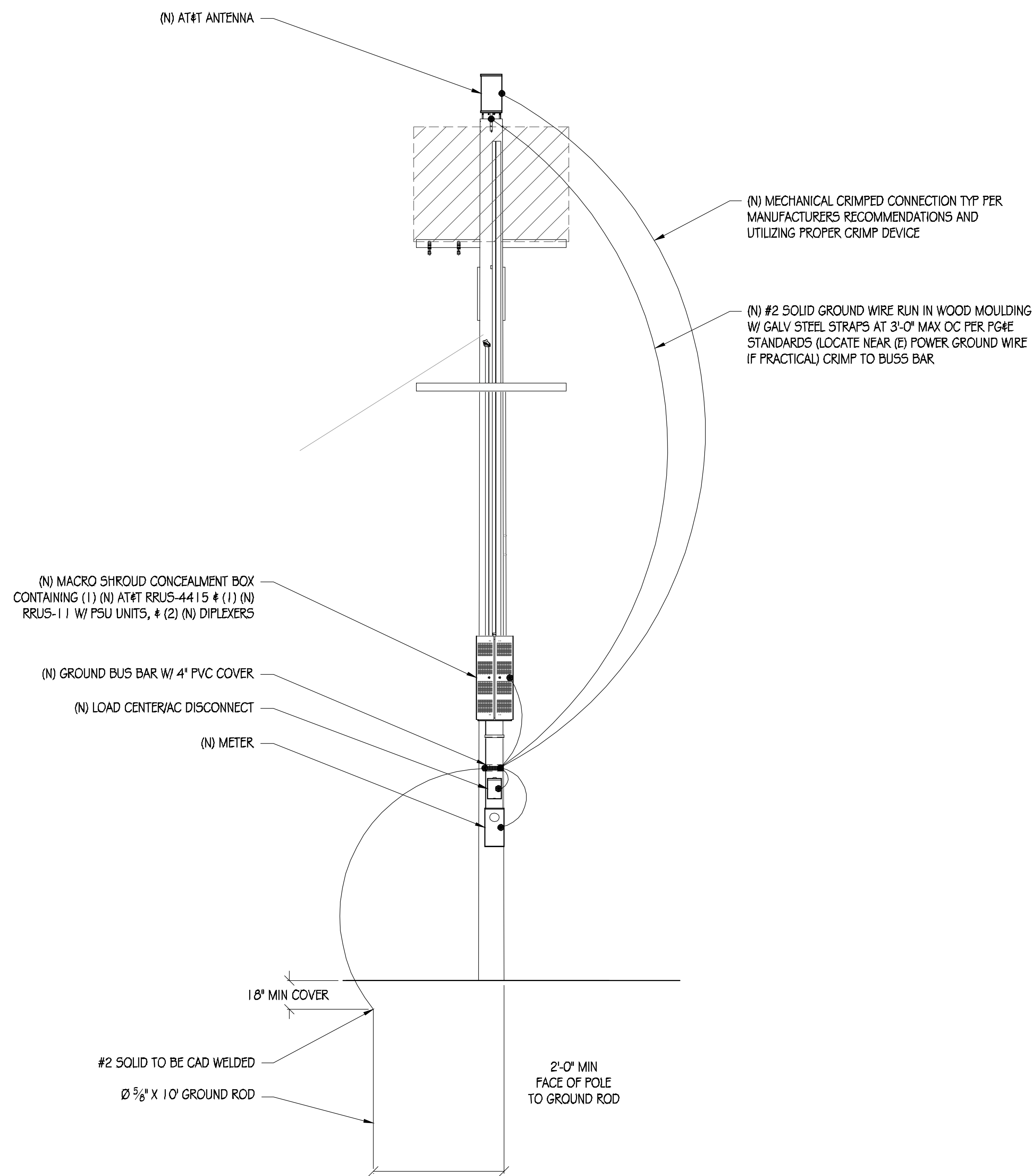
**ISSUE STATUS**

△	DATE	DESCRIPTION
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	07/25/19	CD 100%

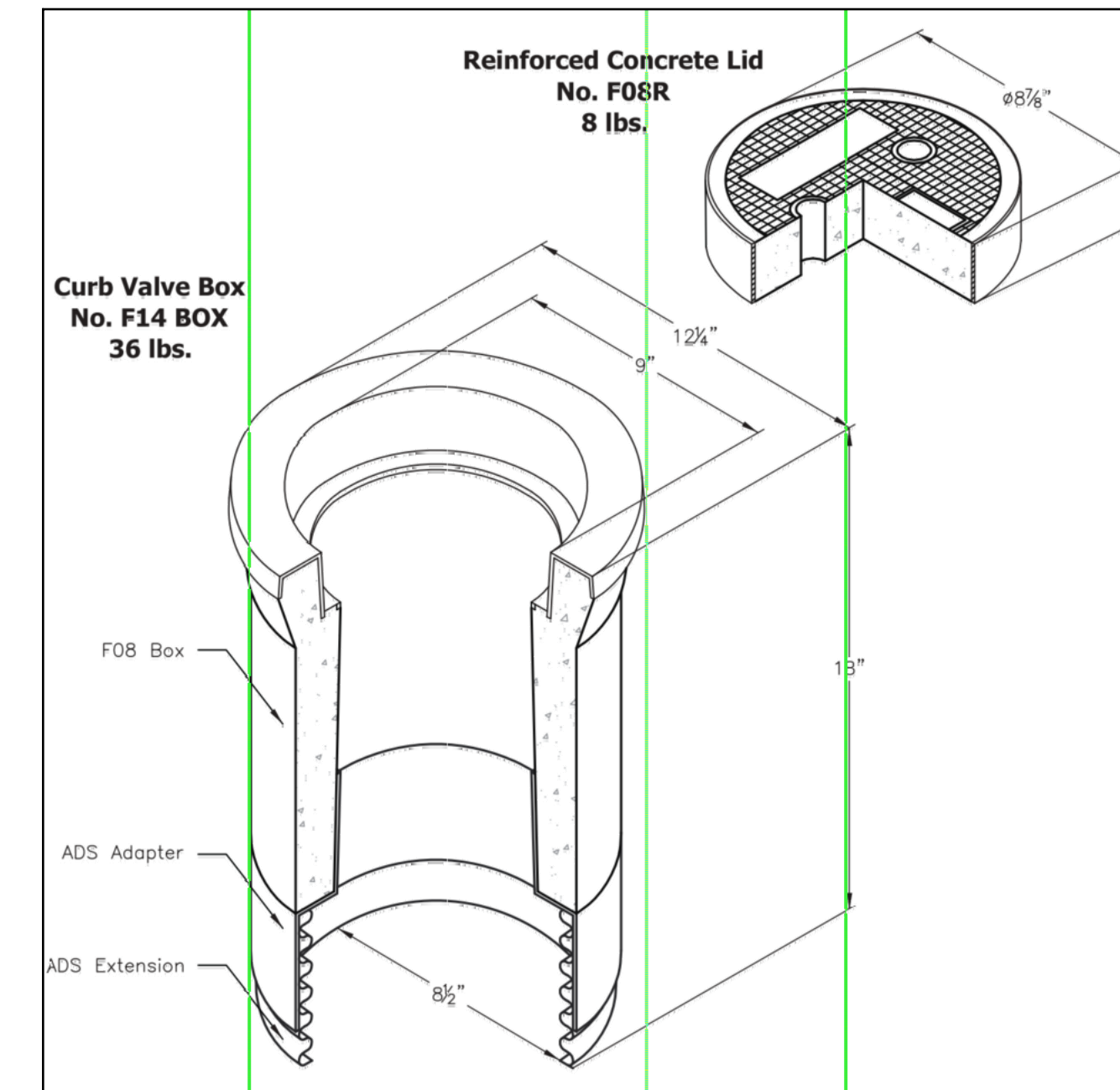
DRAWN BY: T. JONES  
 CHECKED BY: T. DICARLO  
 APPROVED BY: B. McCOMB  
 DATE: 07/25/19  
 SHEET TITLE:

**SINGLE-LINE DIAGRAM & DETAILS**  
 SHEET NUMBER  
**E-1**

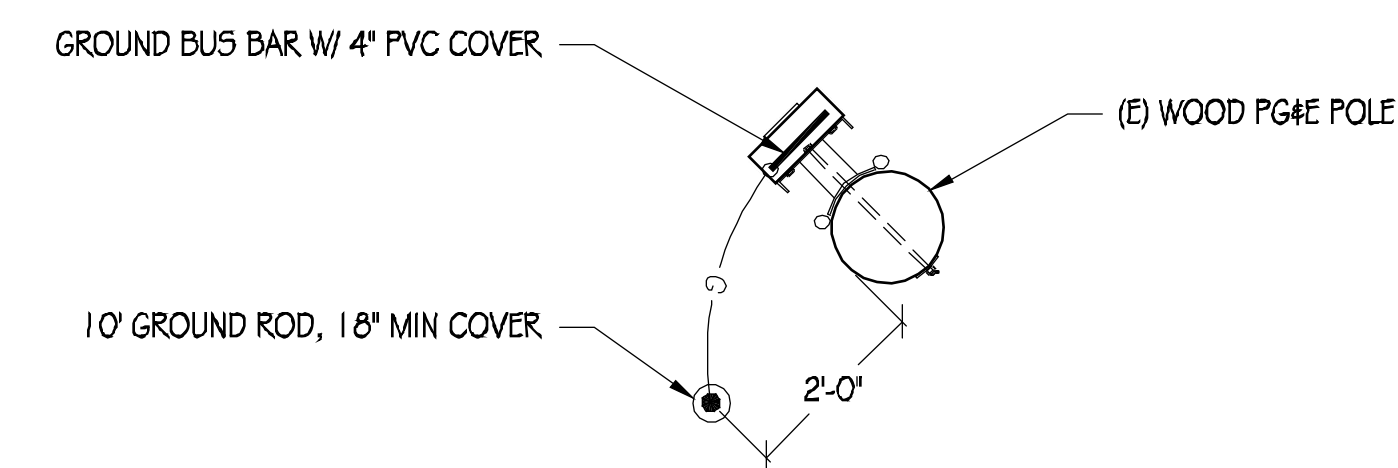




**POLE GROUNDING DIAGRAM**  
NTS



**TEST WELL DETAIL**  
NTS



**GROUNDING PLAN**  
NTS



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

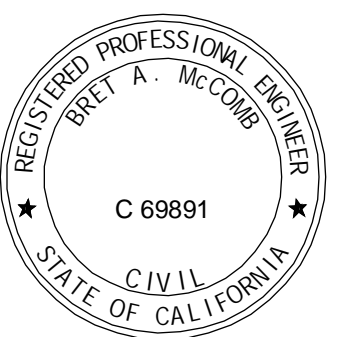


36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

**PRECISION DESIGN**  
*Drafting, INC.*

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

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LOS ALTOS, CA 94022

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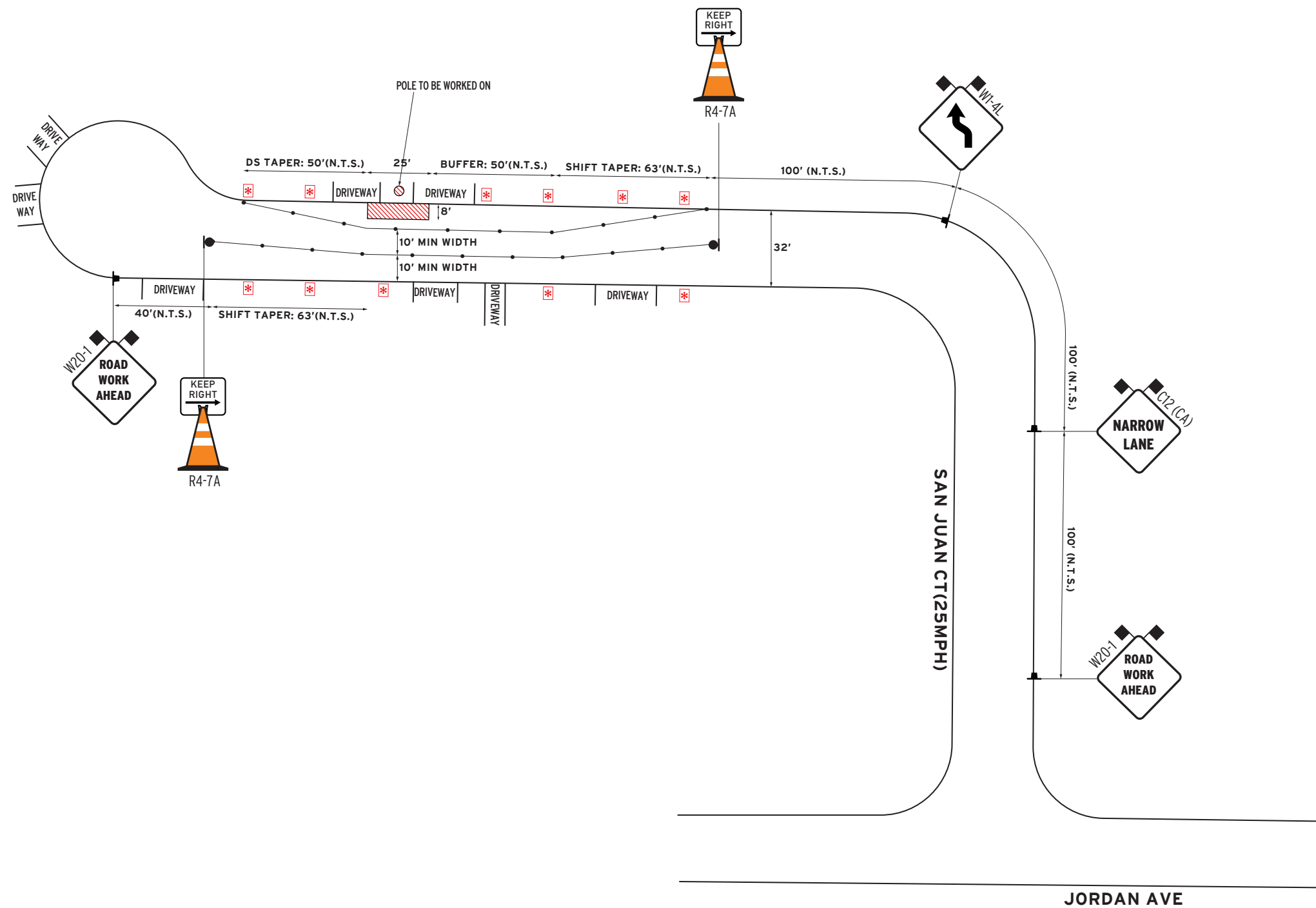
DRAWN BY: T. JONES  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 07/25/19

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

**ADDITIONAL NOTES:**  
 1. ASSIST RESIDENTS WITH IN/OUT ACCESS TO DRIVEWAYS ALONG THE CLOSURE WHEN SAFE TO DO SO.

\*POST TEMPORARY NO PARKING SIGN ON TYPE 1 BARRICADE 72 HRS IN ADVANCED.  
 NOTE: Please contact B.A.T.S 72 hrs in advance in case if we are to install "TEMPORARY NO PARKING" signs.

- 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:  
**49 SAN JUAN CT  
 LOS ALTOS**

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

DATE COMPLTD: **6-26-19**

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

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 49 San Juan Court, 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 49 San Juan Court

37.3958800, -122.1132500

**CRAN\_RSFR\_LOSA0\_05**



1 170-13-017  
HENRY A SOWIZRAL  
16023 NE 58TH CT  
REDMOND WA 98052

1 170-13-017  
OCCUPANT  
16 E PORTOLA AVE  
LOS ALTOS CA 94022

2 170-13-018  
BIN & YU JING QIN  
737 LOMA VERDE AVE #3  
PALO ALTO CA 94303

2 170-13-018  
OCCUPANT  
32 E PORTOLA AVE  
LOS ALTOS CA 94022

3 170-13-019  
GELENA SIGANEVICH  
42 E PORTOLA AVE  
LOS ALTOS CA 94022

4 170-13-020  
ALAN E & SKODA HANA LOH  
50 E PORTOLA AVE  
LOS ALTOS CA 94022

5 170-13-022  
DAVID & SARAH ZIEGLER  
80 E PORTOLA AVE  
LOS ALTOS CA 94022

6 170-13-041  
PHYLLIS E GRAME  
99 SAN JUAN CT  
LOS ALTOS CA 94022

7 170-13-042  
ABDOLREZA & SARTIPI NADIA  
RAISSINIA  
85 SAN JUAN CT  
LOS ALTOS CA 94022

8 170-13-043  
PETER H & JULIE R MAHOWALD  
71 SAN JUAN CT  
LOS ALTOS CA 94022

9 170-13-044  
PATRICIA A DENSMORE  
57 SAN JUAN CT  
LOS ALTOS CA 94022

10 170-13-045  
ALBERT C & MARIE L SMITH  
43 SAN JUAN CT  
LOS ALTOS CA 94022

11 170-13-046  
DAVID F X & CAROL A MURRAY  
29 SAN JUAN CT  
LOS ALTOS CA 94022

12 170-13-047  
JEANINE VALADEZ  
15 SAN JUAN CT  
LOS ALTOS CA 94022

13 170-13-052  
STEVEN & BERNADETTE HOUTCHENS  
130 SAN JUAN CT  
LOS ALTOS CA 94022

14 170-13-053  
GEORGE & MARYANN KONTON  
144 SAN JUAN CT  
LOS ALTOS CA 94022

15 170-13-054  
HAREESH BHAT  
55 JORDAN AVE  
LOS ALTOS CA 94022

16 170-13-073  
MARYAM IMAM  
25 JORDAN AVE  
LOS ALTOS CA 94022

17 170-13-074  
HU ALBERT L TRUSTEE  
41 JORDAN AVE  
LOS ALTOS CA 94022

18 170-13-060  
MURALI B & PRIYA DHARAN  
32 SAN JUAN CT  
LOS ALTOS CA 94022

19 170-13-061  
JIE & ZHANG ZHONG MA  
42 SAN JUAN CT  
LOS ALTOS CA 94022

20 170-13-062  
LADAN & BAGHERI RAMIN KAZERONI  
66 SAN JUAN CT  
LOS ALTOS CA 94022

21 170-13-064  
WILLY J & HELEN S LAURIKS  
111 VIA CONCHA  
APTOS CA 95003

21 170-13-064  
OCCUPANT  
747 N SAN ANTONIO RD  
LOS ALTOS CA 94022

22 170-13-065  
AMOL H & ASMITA A WANKHEDE  
757 N SAN ANTONIO RD  
LOS ALTOS CA 94022

23 170-13-066  
ROBERT G MATHEWS  
785 N SAN ANTONIO RD  
LOS ALTOS CA 94022

24 170-13-071  
JOSHUA & LEE FANYEE SCHACHTER  
60 E PORTOLA AVE  
LOS ALTOS CA 94022

25 170-13-072  
LIANG & LI RUOYU XUE  
2190 KLASSEN WAY  
SAN JOSE CA 95131

25 170-13-072  
OCCUPANT  
70 E PORTOLA 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!

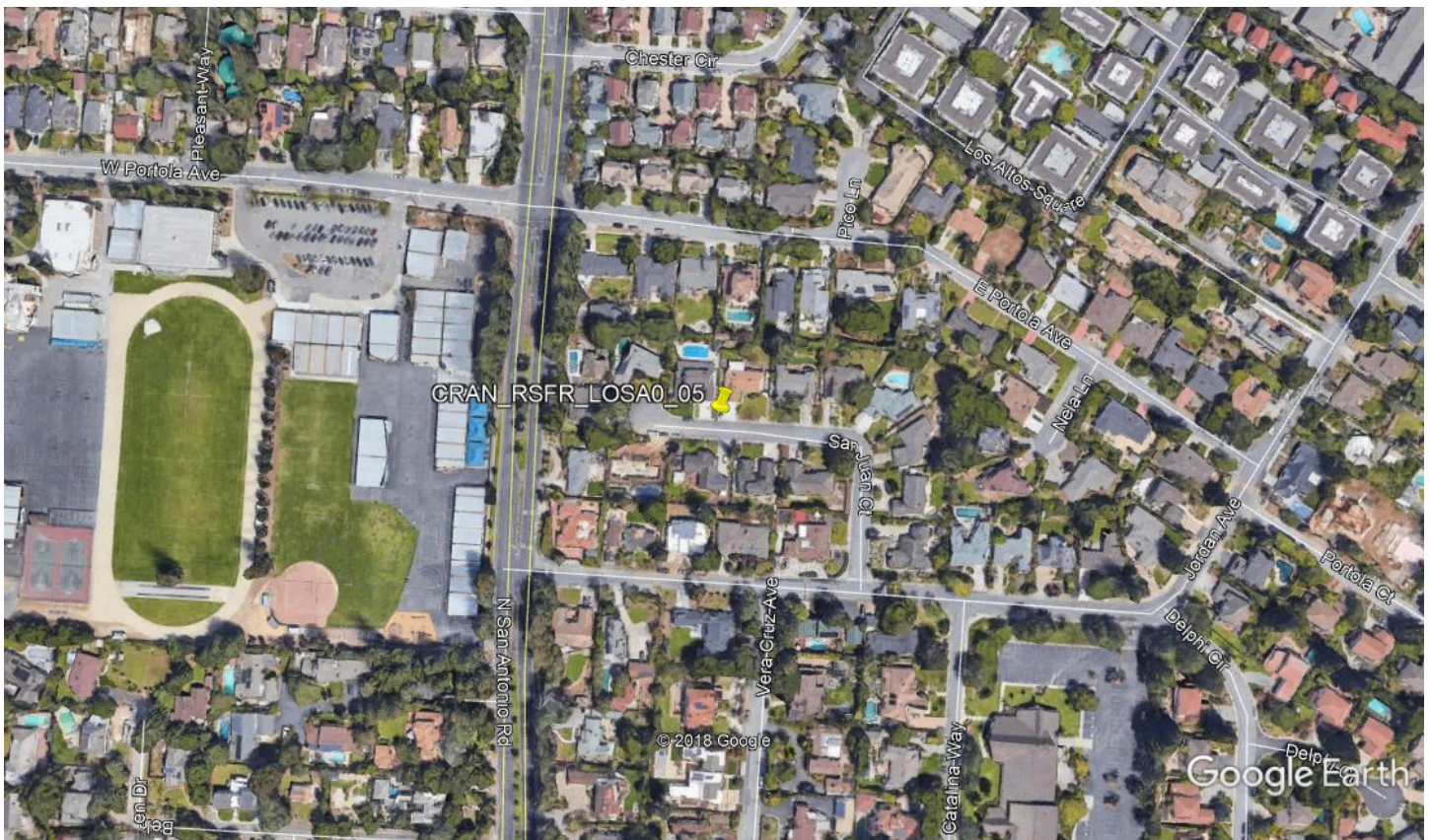
June 10, 2019

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 49 SAN JUAN COURT. 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](mailto:escsd@sure-site.com) should you have any comments or questions about the proposal.

Thank you.

Sincerely,

Angela Kung  
AT&T Director - External Affairs





# CRAN\_RSFR\_LOSAO\_05

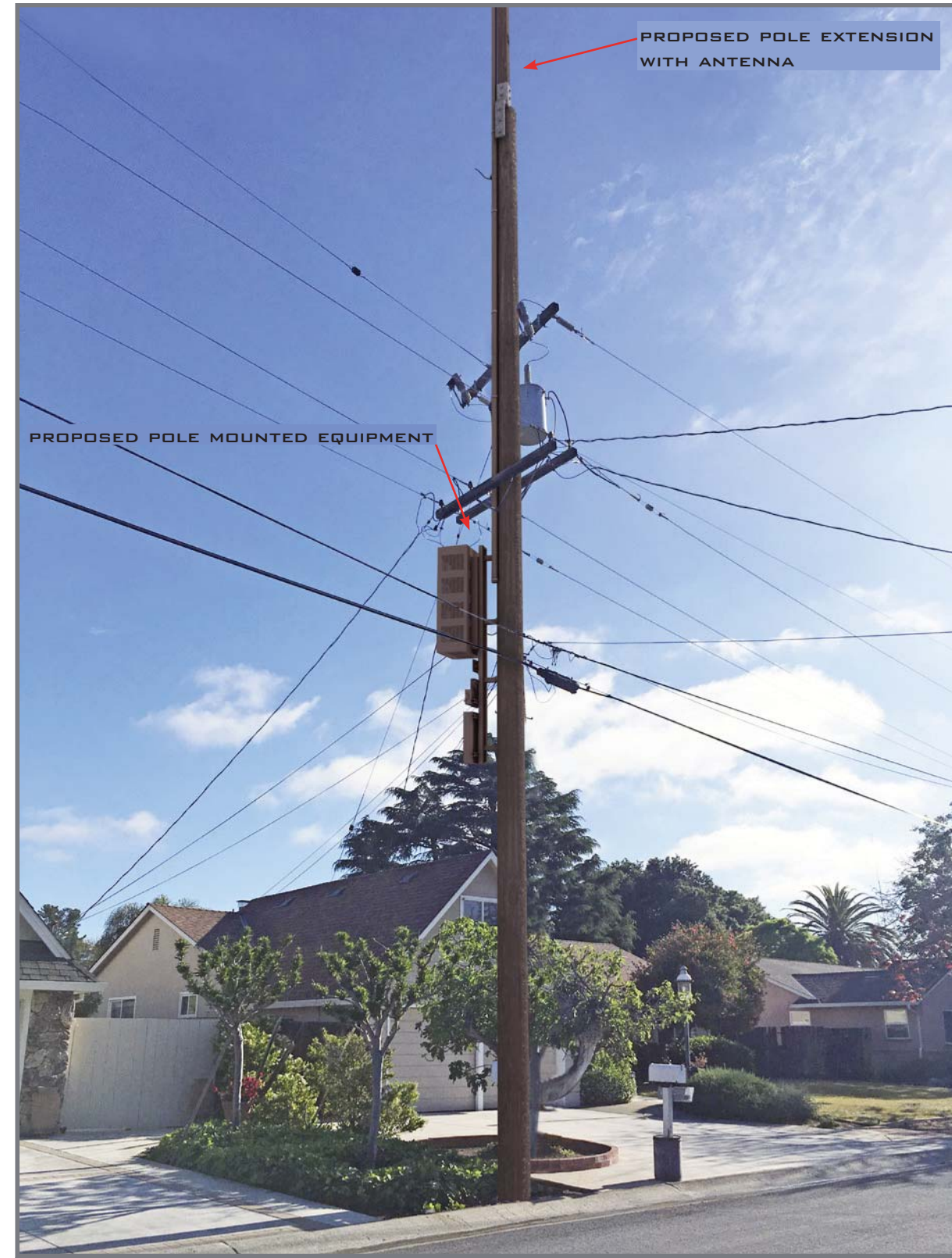
49 SAN JUAN COURT LOS ALTOS CA 94022



VIEW 1

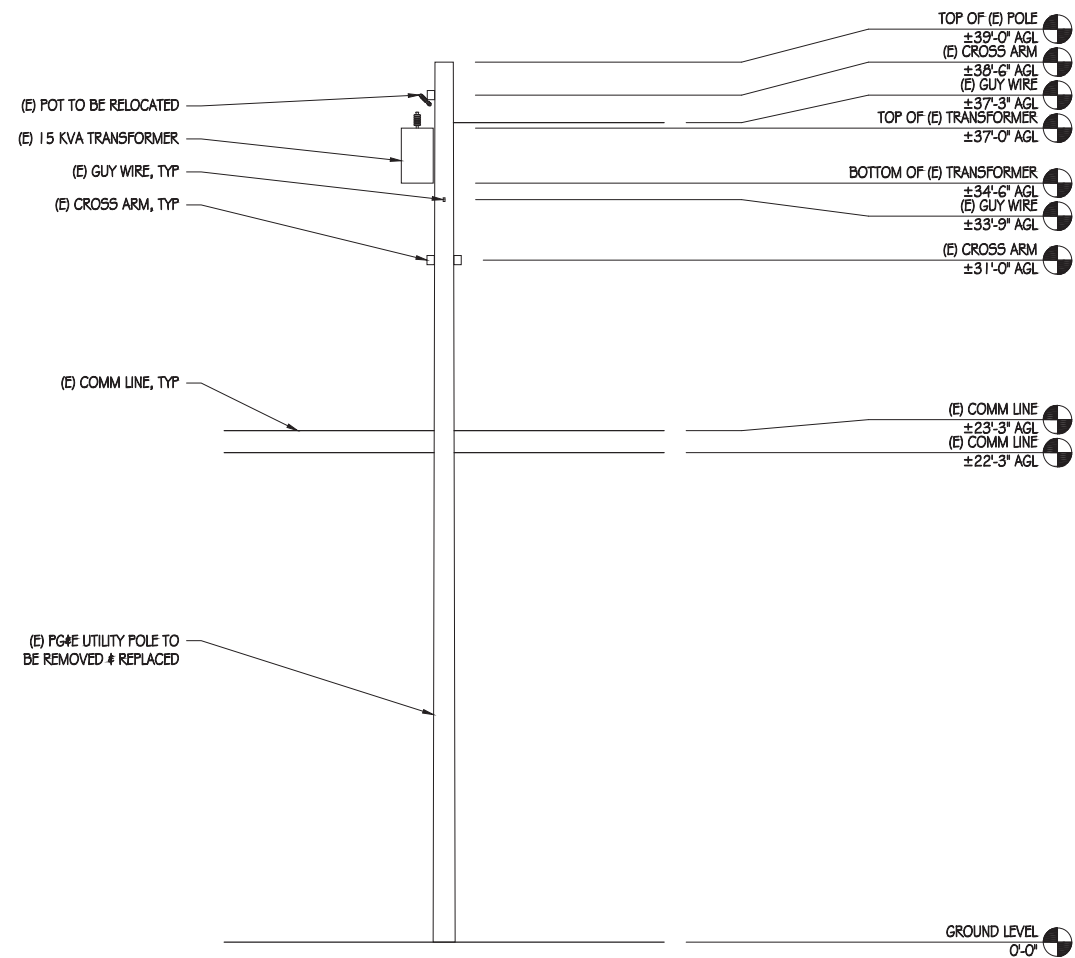


EXISTING



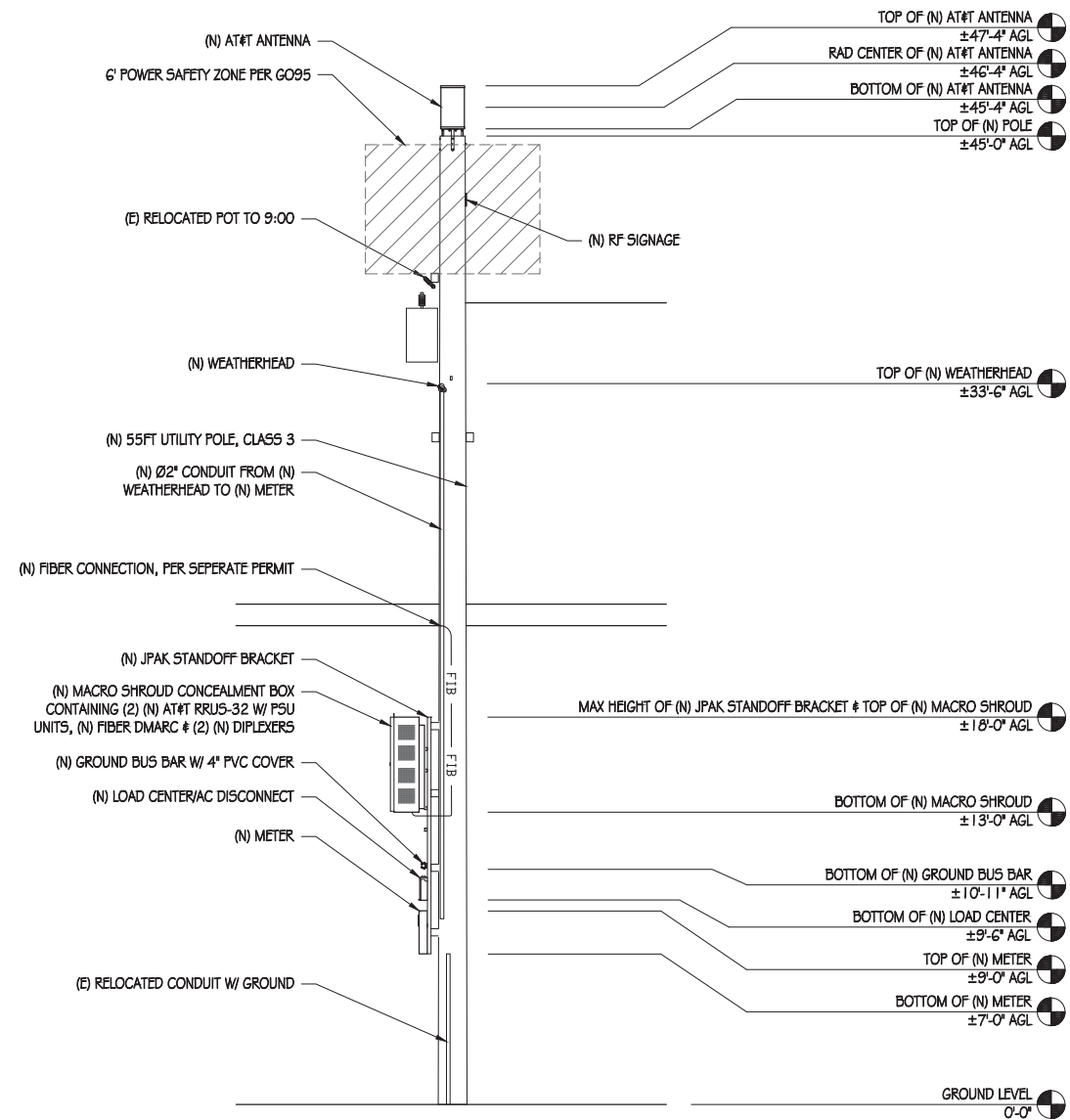
PROPOSED LOOKING NORTHEAST FROM SAN JUAN COURT





### EXISTING NORTH ELEVATION

1/4" = 1'-0"



### NEW NORTH ELEVATION

1/4" = 1'-0"

NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN



AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94553



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 96603

THIS PLAN AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. AND SHALL BE KEPT IN THE OFFICE OF PRECISION DESIGN & DRAFTING, INC. NO REPRODUCTION OR TRANSMISSION OF ANY KIND IS PERMITTED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. ENGINEER, DESIGNER, ARCHITECT OR OTHER PROFESSIONAL PERSONS SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THEM BY THE CLIENT.



CRAN\_RSFR\_LOSAO\_05

ROW ADJCT TO 49 SAN JUAN CT  
LOS ALTOS, CA 94022

#### ISSUE STATUS

△	DATE	DESCRIPTION
	10/30/18	CD 90%

DRAWN BY: T. JONES

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 10/30/18

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-3

AT&T Mobility Radio Frequency Statement  
Los Altos CA Small Cell Node 5

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 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 towards the end of San Juan Court. 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 49 San Juan Court is needed to close the high-band LTE service coverage in an area bordered roughly by East Portola Avenue to the north, Nela Lane to the west, Catalina Court to the south and Egan Junior high School to the east. This portion of Los Altos is primarily residential neighborhoods with dozens of homes and a Junior 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.

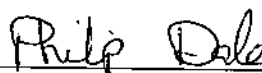
To determine where new equipment needs to be located for the provisioning of reliable service in any area, AT&T's radio frequency engineers rely on far more complex tools and data sources than just signal strength from individual phones. AT&T uses industry standard propagation tools to identify the areas 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.

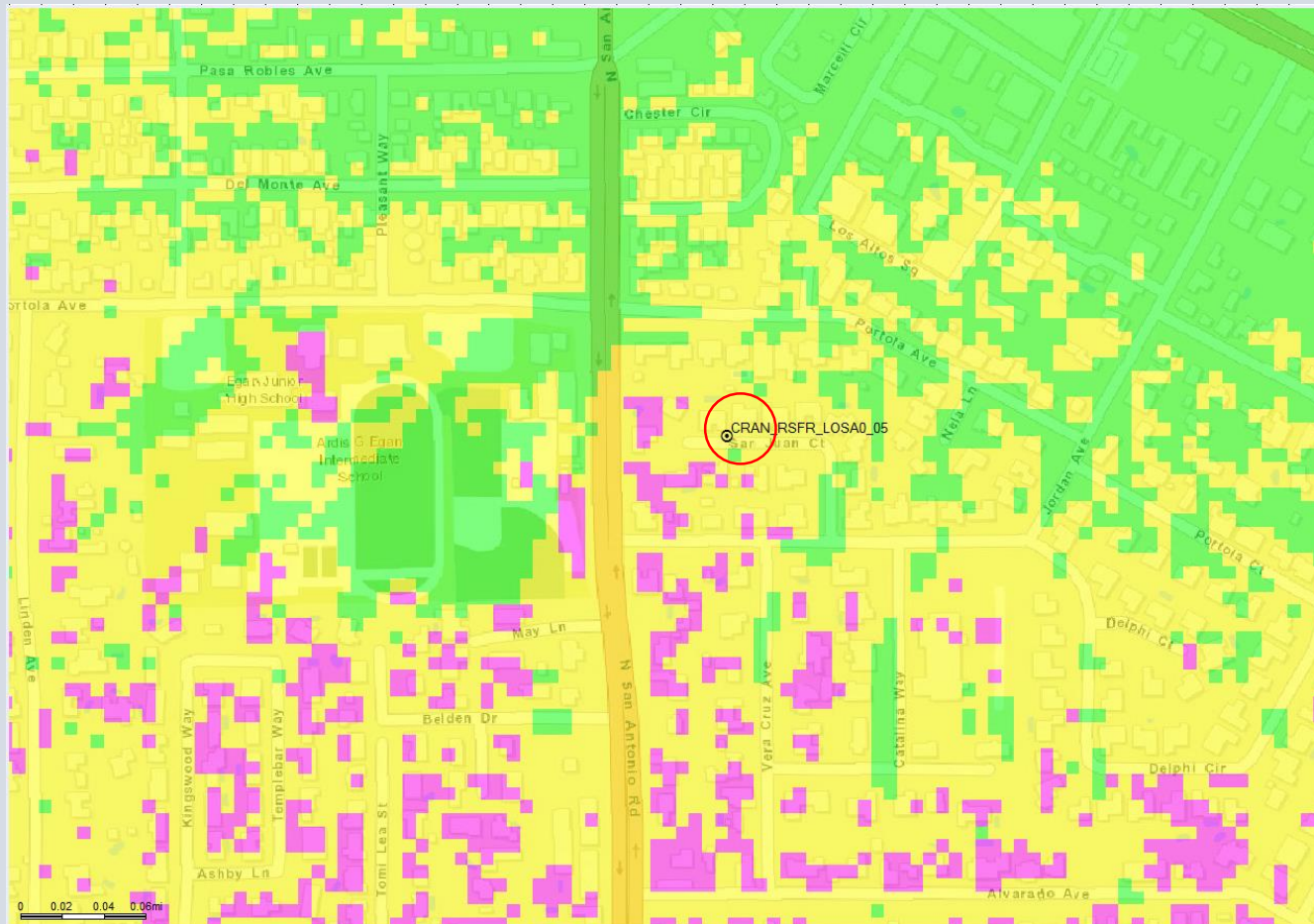
Exhibit 2 to this statement is a map that predicts high-band LTE service coverage based on signal strength in the vicinity if the proposed small cell node is constructed as proposed. As shown by this map, constructing the proposed small cell node here closes this significant service coverage gap.

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\_05




**Legend** ✕

**Coverage\_RSRP (dBm)**

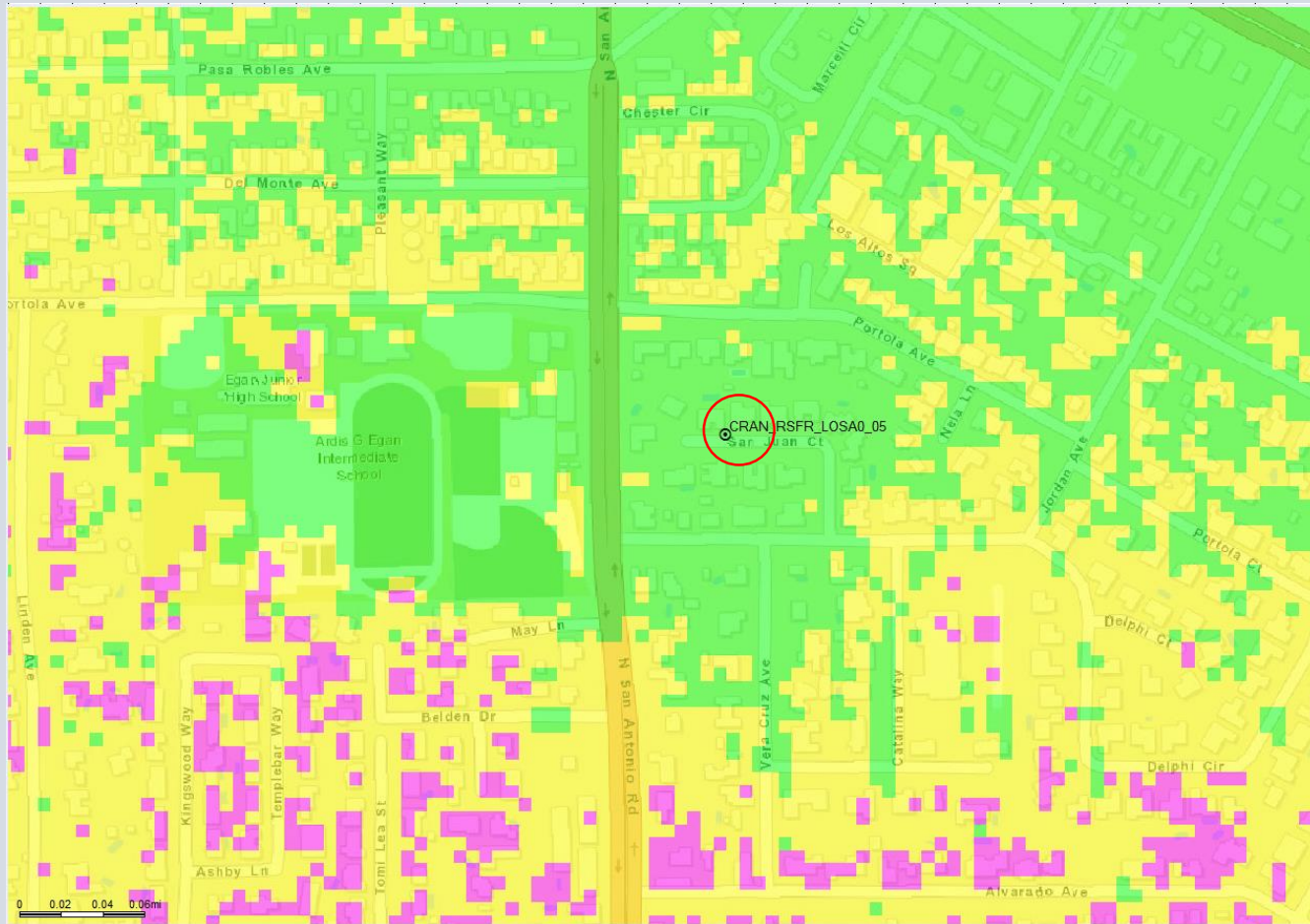
- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

 Macro site

 Proposed small cell Nodes




# LTE 1900 Coverage with Small Cell LOSA0\_05




**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:** 791 Los Altos 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. 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: 791 Los Altos 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
<b>0</b> additional days at \$62/day:	\$ -
<b>TOTAL FEES:</b>	<b>\$ 505.00</b>

**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.





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## Radio Frequency Emissions Compliance Report For AT&T Mobility

<b>Site Name:</b> CRAN_RSFR_LOSA0_06	<b>Site Structure Type:</b> Utility Pole
<b>Address:</b> 791 Los Altos Avenue Los Altos , California	<b>Latitude:</b> 37.396761
<b>Report Date:</b> October 29, 2018	<b>Longitude:</b> -122.121247
	<b>Project:</b> New Build

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### General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed CRAN\_RSFR\_LOSA0\_06 site located at 791 Los Altos 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 <sup>2</sup> )	Averaging Time (minutes)	Power Density (mW/cm <sup>2</sup> )	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 38.4-foot Utility Pole with a centerline 46.6 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 0.3945% 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 0.9775% 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



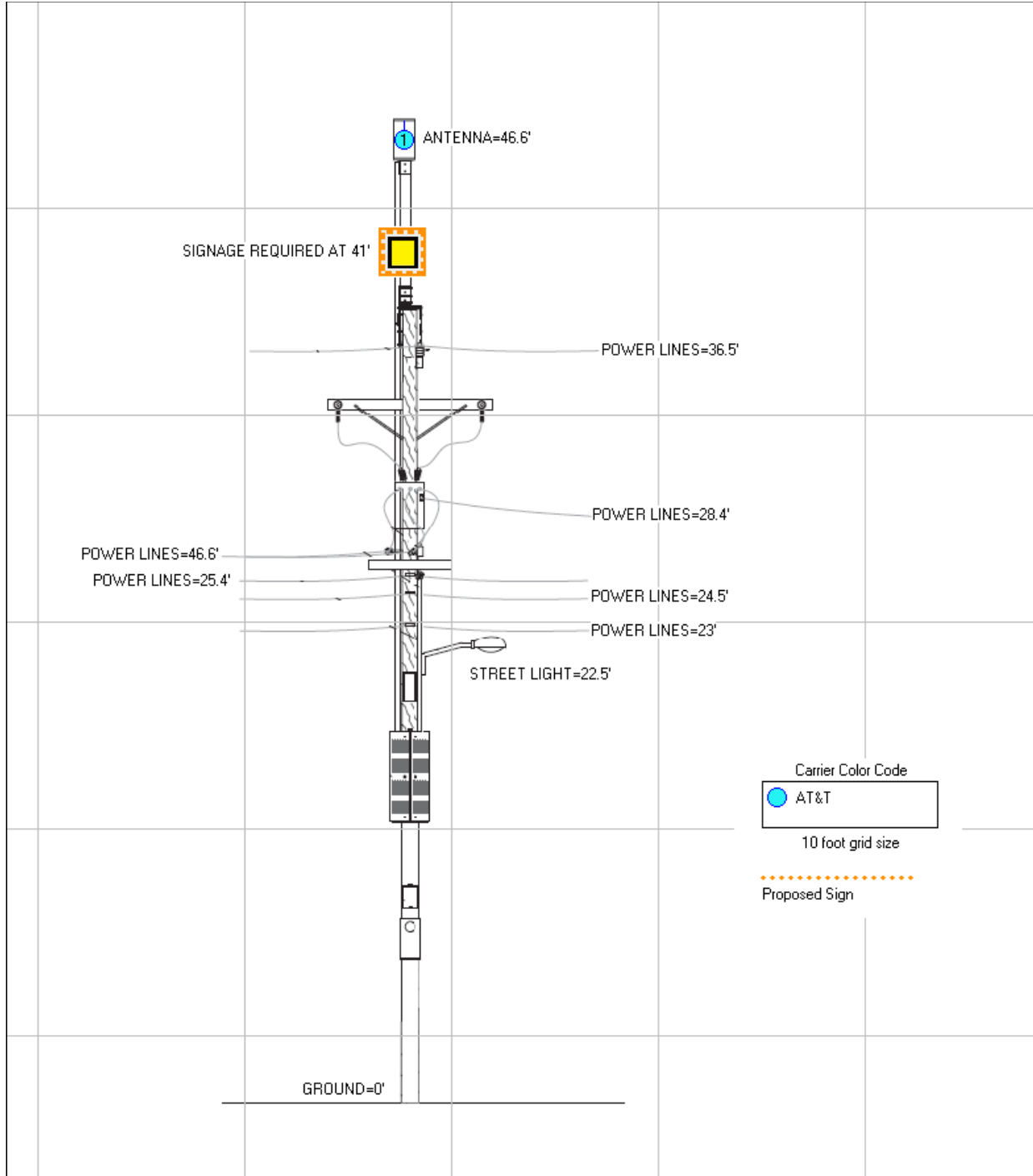


Figure 2: Mitigation Recommendations

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 791 Los Altos 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 25, 2018

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

Subj: CRAN\_RSFR\_LOSA0\_006

We have analyzed the wood pole at ROW adjacent to 791 Los Altos Avenue, Los Altos, CA 94022 (37.3967610, -122.1212470) 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 41.0% 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:

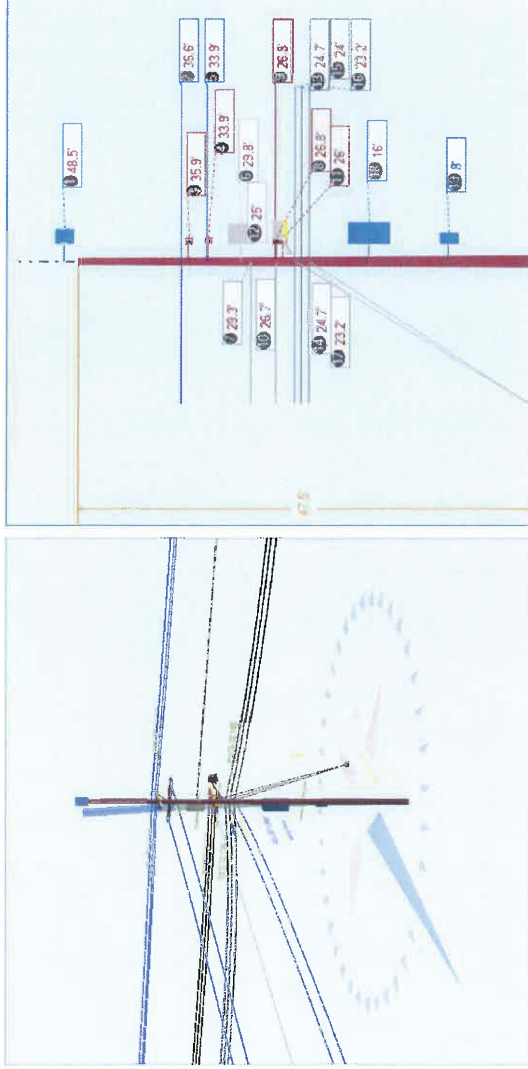
1. O-Calc Output: 6 pages
2. Pole Size Chart: 1 page



**Pole Num:** CRAN\_RSFR\_LOSA0\_06    **Pole Length / Class:** 55 / 3    **Code:** 55 / 3  
**Aux Data 1**    **Unset Species:** DOUGLAS FIR    **NESC Rule:** 7.50    **Construction Grade:** 39.96    **Loading District:** 8,000    **Ice Thickness (in):** 3,929    **Wind Speed (mph):** No    **Wind Pressure (psf):** No  
**Aux Data 2**    **Unset Setting Depth (ft):** 7.50  
**Aux Data 3**    **Unset G/L Circumference (in):** 39.96  
**Aux Data 4**    **Unset G/L Fiber Stress (psi):** 8,000  
**Aux Data 5**    **Unset Allowable Stress (psi):** 3,929  
**Aux Data 6**    **Unset Fiber Stress Ht. Reduc:** No  
**Latitude:** 37.396761 Deg    **Longitude:** -122.121247 Deg    **Elevation:** 99.9 Feet

Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	41.0	27.0
Groundline	12.7	0.0
Vertical	5.4	24.6

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Crossarm allowance 300 lbs	11,086	347.8
Max Cap Util	5,379	70.7
Groundline	66,167	
GL Allowable		



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	190.0	270.0		5.9	355.6	10.2	90.0
• EHS 3/8 (Span/Head)			29.3	7.7	355.6	13.2	90.0
▶ Anchor	200.0	0.0		0.0	355.6	0.0	0.0
• EHS 3/8 (Span/Head)			26.7	0.0	355.6	0.0	0.0
▶ Single - 14" - Soil Class 4	15.0	180.0		31.4	355.6	31.5	0.0
• HS 9/32 (Down)			26.7	58.1	355.6	58.1	0.0
• HS 9/32 (Down)			24.7	49.9	355.6	49.9	0.0
• HS 9/32 (Down)			23.2	44.3	355.6	44.3	0.0
<b>System Capacity Summary:</b>				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 70.7°										
	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	1,807	873.6	39,522	734.7	59.7	3,029	85	1	3,029	77.1
Comms	286	138.1	5,286	98.3	8.0	405	292	2	407	10.4
GuyBraces	-2,052	-992.1	-42,482	-789.8	-64.2	-3,256	6,371	50	-3,205	-81.6
PowerEquipments	11	5.2	372	6.9	0.6	29	335	3	31	0.8
GenericEquipments	43	21.0	667	12.4	1.0	51	160	1	52	1.3
Pole	82	39.4	1,467	27.3	2.2	112	1,599	13	125	3.2
Crossarms	20	9.8	420	7.8	0.6	32	215	2	34	0.9
Streetlights	6	2.8	20	0.4	0.0	2	45	0	2	0.0
Insulators	5	2.3	107	2.0	0.2	8	73	1	9	0.2
Pole Load	207	100.0	5,379	100.0	8.1	412	9,175	72	484	12.3
Pole Reserve Capacity			60,788		91.9	3,517			3,444	87.7

# O-Calc® Pro Analysis Report

## Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 70.7°

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 (%)
125	60.6	3,912	72.7	5.9	300	7,576	60	359	9.1
82	39.4	1,467	27.3	2.2	112	1,599	13	125	3.2
<b>Totals:</b>	207	100.0	100.0	8.1	412	9,175	72	484	12.3

## 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 1 AWG 7 STRAND PANSY	36.60	16.18	0.3280	1.65	0.078	164.0	90.0	164.0	500	17,283	0	216	17,499
Primary	AAC 1 AWG 7 STRAND PANSY	36.60	16.18	0.3280	2.03	0.078	190.0	270.0	190.0	500	-17,283	0	250	-17,034
Primary	AAC 1 AWG 7 STRAND PANSY	36.60	40.46	0.3280	1.65	0.078	164.0	90.0	164.0	500	17,283	4	216	17,504
Primary	AAC 1 AWG 7 STRAND PANSY	36.60	40.46	0.3280	2.03	0.078	190.0	270.0	190.0	500	-17,283	5	250	-17,029
Primary	AAC 1 AWG 7 STRAND PANSY	36.60	40.46	0.3280	1.65	0.078	164.0	90.0	164.0	500	17,283	-10	216	17,489
Primary	AAC 1 AWG 7 STRAND PANSY	36.60	40.46	0.3280	2.03	0.078	190.0	270.0	190.0	500	-17,283	-12	250	-17,045
Primary	AAC 1 AWG 7 STRAND PANSY	33.92	40.54	0.3280	2.21	0.078	200.0	0.0	200.0	492	5,506	-3	-53	5,450
Primary	AAC 1 AWG 7 STRAND PANSY	33.92	40.54	0.3280	2.21	0.078	200.0	0.0	200.0	492	5,506	3	-53	5,456
Secondary	TRIPLEX 6 AWG	26.75	6.16	0.5800	2.10	0.113	164.0	90.0	164.0	500	12,626	4	279	12,908
Secondary	TRIPLEX 6 AWG	26.75	40.47	0.5800	2.10	0.113	164.0	90.0	164.0	500	12,626	2	279	12,907
Secondary	TRIPLEX 6 AWG	26.75	40.47	0.5800	2.10	0.113	164.0	90.0	164.0	500	12,626	-1	279	12,904
<b>Totals:</b>											<b>48,890</b>	<b>-9</b>	<b>2,129</b>	<b>51,010</b>

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	24.67	7.46	1.0000	4.32	0.400	164.0	90.0	164.3	400	9,315	7	444	9,766
Telco	TELE 1.0	24.67	7.46	1.0000	4.77	0.400	190.0	270.0	190.2	500	-11,644	8	514	-11,122
Telco	TELE 1.0	24.67	7.46	1.0000	4.32	0.400	200.0	0.0	200.1	700	5,697	-23	-118	5,556
Telco	TELE 1.0	23.17	7.54	1.0000	4.32	0.400	164.0	90.0	164.3	400	8,749	7	417	9,172
Telco	TELE 1.0	23.17	7.54	1.0000	4.77	0.400	190.0	270.0	190.2	500	-10,936	8	483	-10,445
Telco	TELE 1.0	23.17	7.54	1.0000	4.32	0.400	200.0	0.0	200.1	700	5,351	-24	-111	5,216
Telco	TELE 1.0	24.00	7.50	1.0000	4.32	0.400	164.0	90.0	164.3	400	9,062	7	432	9,501



Telco	TELE 1.0	24.00	7.50	1.0000	4.77	0.400	190.0	270.0	190.2	500	-11,328	8	500	-10,820
<b>Totals:</b>											<b>4,267</b>	<b>-3</b>	<b>2,559</b>	<b>6,823</b>

PowerEquipment	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	29.75	17.67	0.0	0.0	335.00	34.00	--	22.00	--	163	318	480
<b>Totals:</b>											<b>163</b>	<b>318</b>	<b>480</b>

GenericEquipment	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 RRU's	16.00	13.45	0.0	0.0	130.00	53.00	16.00	--	23.00	48	484	532
Box	100amp Meter	8.00	8.22	0.0	0.0	10.00	24.00	4.63	--	12.00	2	62	64
Cylinder	Antenna-KMW FX-OM2LI OH2	48.50	0.40	0.0	0.0	20.00	24.00	--	16.00	--	0	266	266
<b>Totals:</b>											<b>50</b>	<b>811</b>	<b>861</b>

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	35.92	6.07	270.0	270.0	53.00	4.50	3.50	96.00	-25	-83	-108	
Normal	CROSSARM 3-1/2 X 4-1/2 X 8	33.92	6.18	180.0	180.0	53.00	4.50	3.50	96.00	-9	425	416	
Normal	CROSSARM 3-1/2 X 4-1/2 X 8	26.75	6.59	270.0	270.0	53.00	4.50	3.50	96.00	-27	-62	-89	
Normal	CROSSARM 3-1/2 X 4-1/2 X 4	26.00	6.63	0.0	0.0	28.00	4.50	3.50	48.00	5	162	167	
Normal	CROSSARM 3-1/2 X 4-1/2 X 4	26.00	6.63	180.0	180.0	28.00	4.50	3.50	48.00	-5	162	157	
<b>Totals:</b>											<b>-62</b>	<b>604</b>	<b>542</b>

Streetlight	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)	
General	Streetlight - 3 ft. Arm	25.00	4.94	270.0	270.0	45.00	24.00	20.00	36.00	-120	146	25	
<b>Totals:</b>											<b>-120</b>	<b>146</b>	<b>25</b>

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	36.10	15.00	338.0	0.0	11.00	4.75	6.00	-1	15	14
Post	Post Insulator - 15 kV	36.10	40.00	351.4	0.0	11.00	4.75	6.00	7	15	22
Post	Post Insulator - 15 kV	36.10	-40.00	188.6	0.0	11.00	4.75	6.00	-17	15	-3
Deadend	Deadend 12.75"	33.92	40.00	261.2	180.0	3.00	3.80	12.75	-9	23	15
Deadend	Deadend 12.75"	33.92	-40.00	98.8	180.0	3.00	3.80	12.75	10	23	33



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	24.63	33.30	11.79	16.29	7.32	12.73	1.60e+6	60.00	57.00	47.50	170,998	1699.06	18.52



**DOUGLAS FIR POLE SIZING CHART**

Class	H-6	H-5	H-4	H-3	H-2	H-1	1	2	3	4	5	6
<b>Minimum Circumference at Top (Inches)</b>	39	37	35	33	31	29	27	25	23	21	19	17
<b>Length of Pole (Feet)</b>	<b>Minimum Circumference at 6 feet from Butt (Inches)</b>											
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	-	-	-	-
	<b>H-6</b>	<b>H-5</b>	<b>H-4</b>	<b>H-3</b>	<b>H-2</b>	<b>H-1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>

\* 125' Availability: Untreated Only





at&t

# CRAN\_RSFR\_LOSAO\_06

791 LOS ALTOS AVENUE LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED

LOOKING WEST FROM PORTOLA AVENUE



# Alternate Review

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

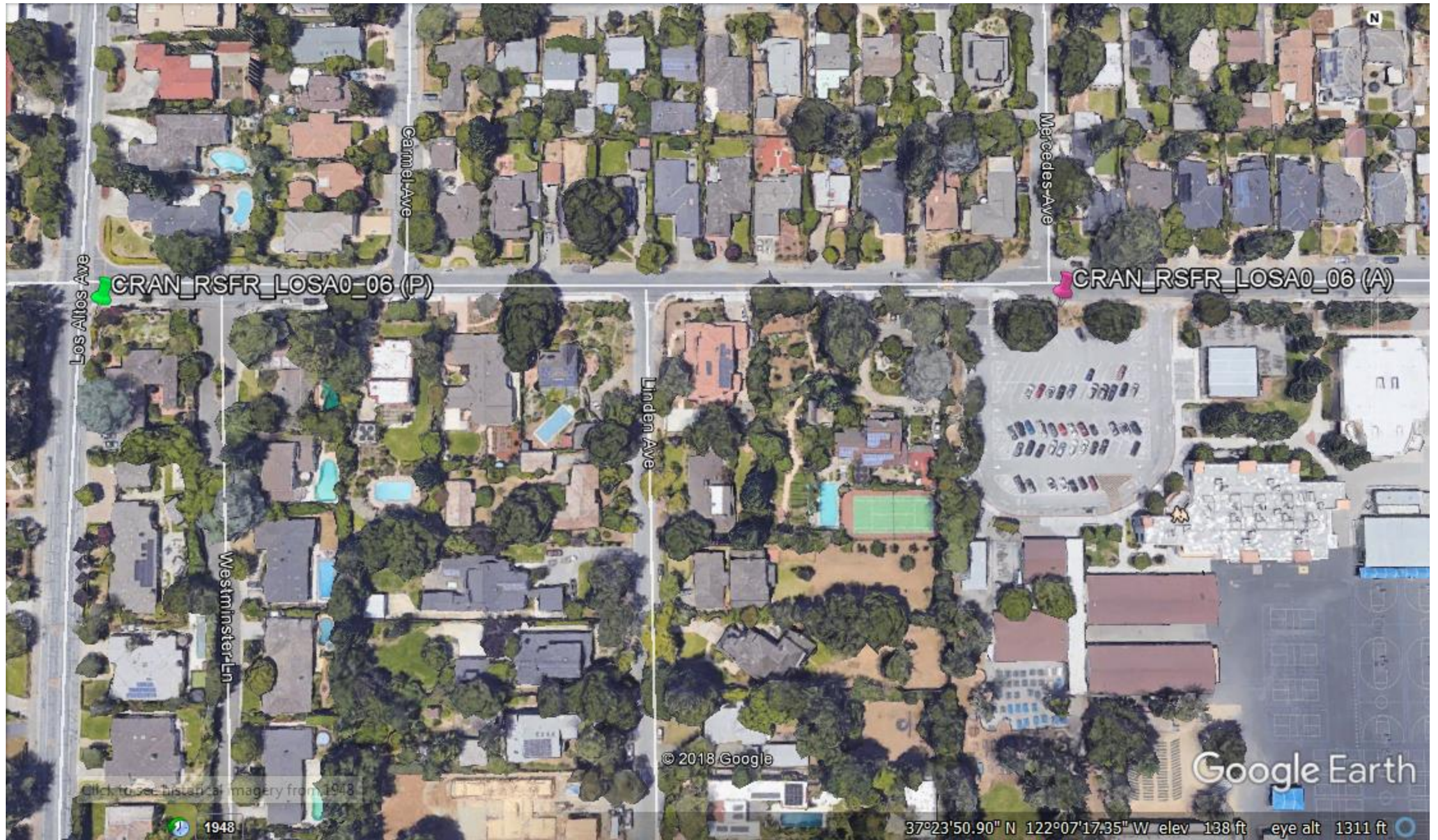


## Alternative Site Location

This location is a wood utility pole located in the public ROW on the south side of West Portola Avenue where it intersects with Mercedes Avenue

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. In addition, it is adjacent to a school.





CRAN\_RSFR\_LOSA0\_06 (P)

CRAN\_RSFR\_LOSA0\_06 (A)

Los Altos Ave

Carmel Ave

Mercedes Ave

Westminster Ln

Linden Ave

© 2018 Google

Google Earth

Click to see historical imagery from 1948

1948

37°23'50.90" N 122°07'17.35" W elev 138 ft eye alt 1311 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 INFORMATION

**APPLICANT:** ART&T MOBILITY  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583  
**AGENT:** SURESITE  
 36 EXECUTIVE PARK, SUITE 210  
 IRVINE, CA 92614  
**APN:** ADJCT TO 167-21-084  
**SITE ADDRESS:** ROW ADJCT TO 791 LOS ALTOS AVE  
 LOS ALTOS, CA 94022  
**COUNTY:** SANTA CLARA  
**LATITUDE:** 37° 23' 46.39" N (67.3967610) NAD 83  
**LONGITUDE:** 122° 07' 16.43" W (-122.1212470) NAD 83  
**GROUND ELEVATION:** ±99.9' AMSL  
**ZONING:** PUBLIC ROW  
**ZONING JURISDICTION:** LOS ALTOS  
**PG&E SAP ID:** 100508715  
**STREET CLASSIFICATION:** LOCAL COLLECTOR

## CODE COMPLIANCE

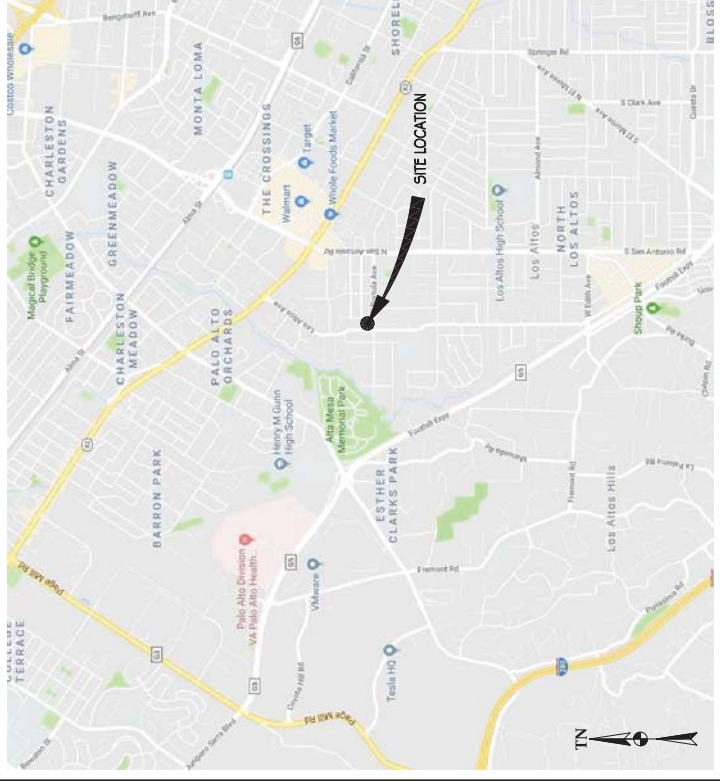
CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:

- 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

## VICINITY MAP



## DRIVING DIRECTIONS

**DIRECTIONS FROM ART&T WIRELESS WALNUT CREEK OFFICE**  
**FROM:** 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583  
**TO:** 791 LOS ALTOS AVE, LOS ALTOS, CA 94022

- HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR
- TURN RIGHT ONTO SUNSET DR
- USE THE MIDDLE LANE TO TURN RIGHT ONTO BOLLING CANYON RD
- USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE
- MERGE ONTO I-680 S
- CONTINUE STRAIGHT TO STAY ON I-680 S
- TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-680
- KEEP RIGHT AT THE FORK. FOLLOW SIGNS FOR MISSION LVD W MERGE ONTO CA-262
- MERGE ONTO CA-262 MISSION BLVD
- USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD I-680 S/SAN JOSE
- MERGE ONTO I-680 S
- USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW
- CONTINUE ONTO CA-237 W
- KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY FWY
- TURN RIGHT ONTO EL CAMINO REAL
- TURN LEFT ONTO JORDAN AVE
- TURN RIGHT ONTO E PORTOLA AVE

**END AT:** 791 LOS ALTOS AVE, LOS ALTOS, CA 94022  
 ESTIMATED TIME: 48 MINS ESTIMATED DISTANCE: 40 MI

FT	MI
256	0.1
0.1	0.3
0.3	0.3
0.3	0.3
3.9	3.9
17.5	17.5
0.2	0.2
0.3	0.3
0.5	0.5
0.5	0.5
0.9	0.9
3.1	3.1
0.9	0.9
8.4	8.4
0.5	0.5
2.3	2.3
0.2	0.2
0.6	0.6

**SITE ID:** CRAN\_RSFR\_LOSAO\_06  
**SITE ADDRESS:** ROW ADJCT TO 791 LOS ALTOS AVE  
 LOS ALTOS, CA 94022  
**SITE TYPE:** PG&E POLE (PM# 114474404)  
**POLE OWNER:** PG&E  
**FA LOCATION:** I2898152  
**USID:** TBD

## PROJECT TEAM

**AGENT:** SURESITE  
 36 EXECUTIVE PARK, #210  
 IRVINE, CA 92614  
 (949) 276-2962  
 LMEINERS@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:** BRETT MCCOMB  
 PRECISION DESIGN & DRAFTING, INC  
 11768 ATWOOD ROAD, SUITE #20  
 AUBURN, CA 95603  
 (530) 823-6546  
 BRETT@PDND.COM  
**RF MANAGER:** TBD

## PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR ART&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 GOBS COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/VAC DISCONNECT, (1) CONCRETE BOX CONTAINING (1) RRU 11 & (1) 4415 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-0M2L101Z 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

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

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



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



36 EXECUTIVE PARK, SUITE 210  
 IRVINE, CA 92614

Infrastructure experts. Smart cell leaders.



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



**CRAN\_RSFR\_LOSAO\_06**  
 ROW ADJCT TO 791 LOS ALTOS AVE  
 LOS ALTOS, CA 94022

## ISSUE STATUS

DATE	DESCRIPTION
06/31/16	CD 90%
10/29/16	CD 100%

**DRAWN BY:** O. REDDISH  
**CHECKED BY:** T. DCARLO  
**APPROVED BY:** B. MCCOMB  
**DATE:** 10/29/16

**SHEET TITLE:**  
**TITLE SHEET**  
**SHEET NUMBER**  
**T-1**















ART MOBILITY  
5001 DECUITVE PARKWAY  
SAN RAMON, CA 94583



36 DECUITVE PARK, SUITE 210  
IRVINE, CA 92614



1768 Alwood Rd, Suite 20 Auburn, CA 95603  
Phone: (530) 823-6546 www.pdnd.com

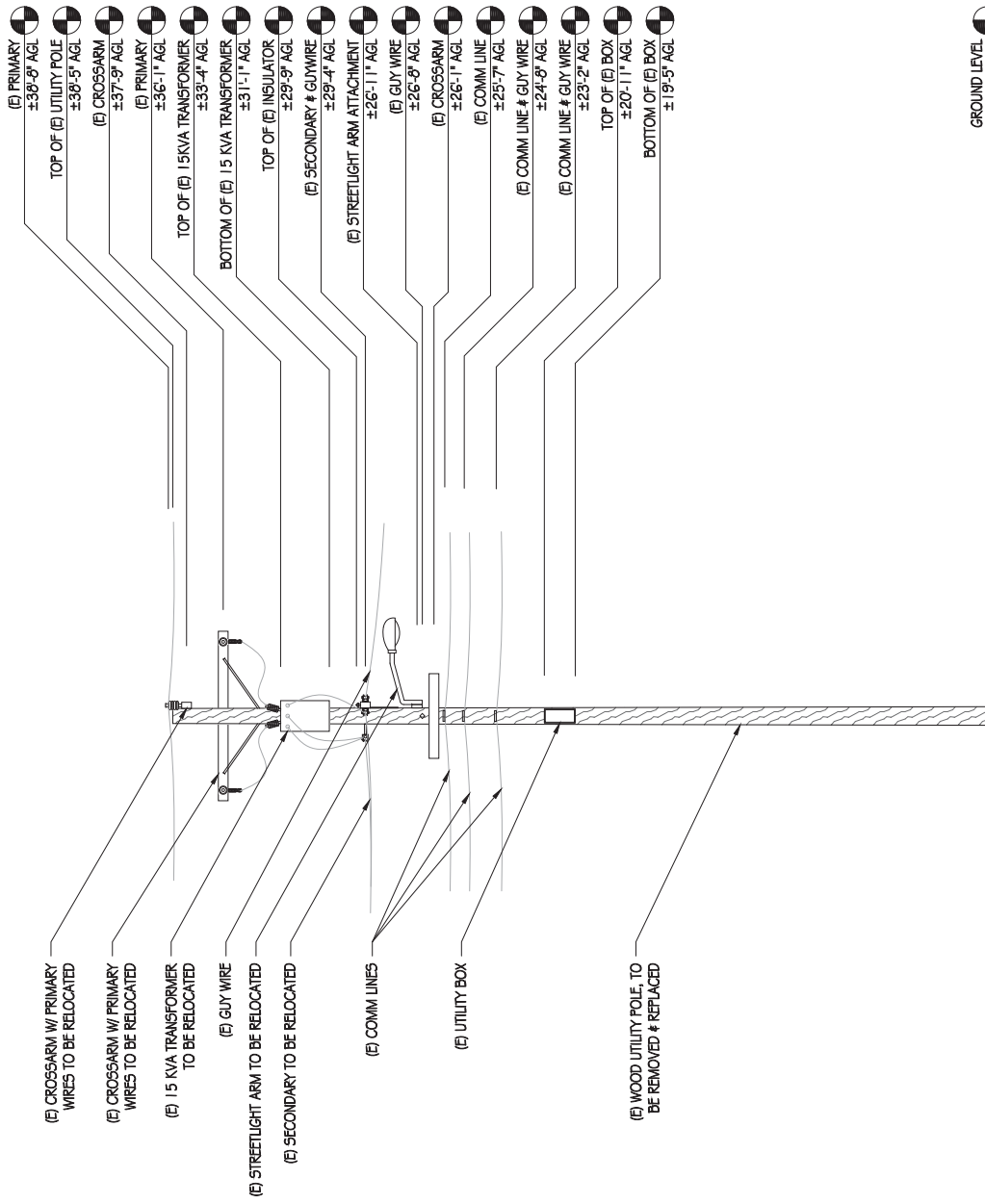
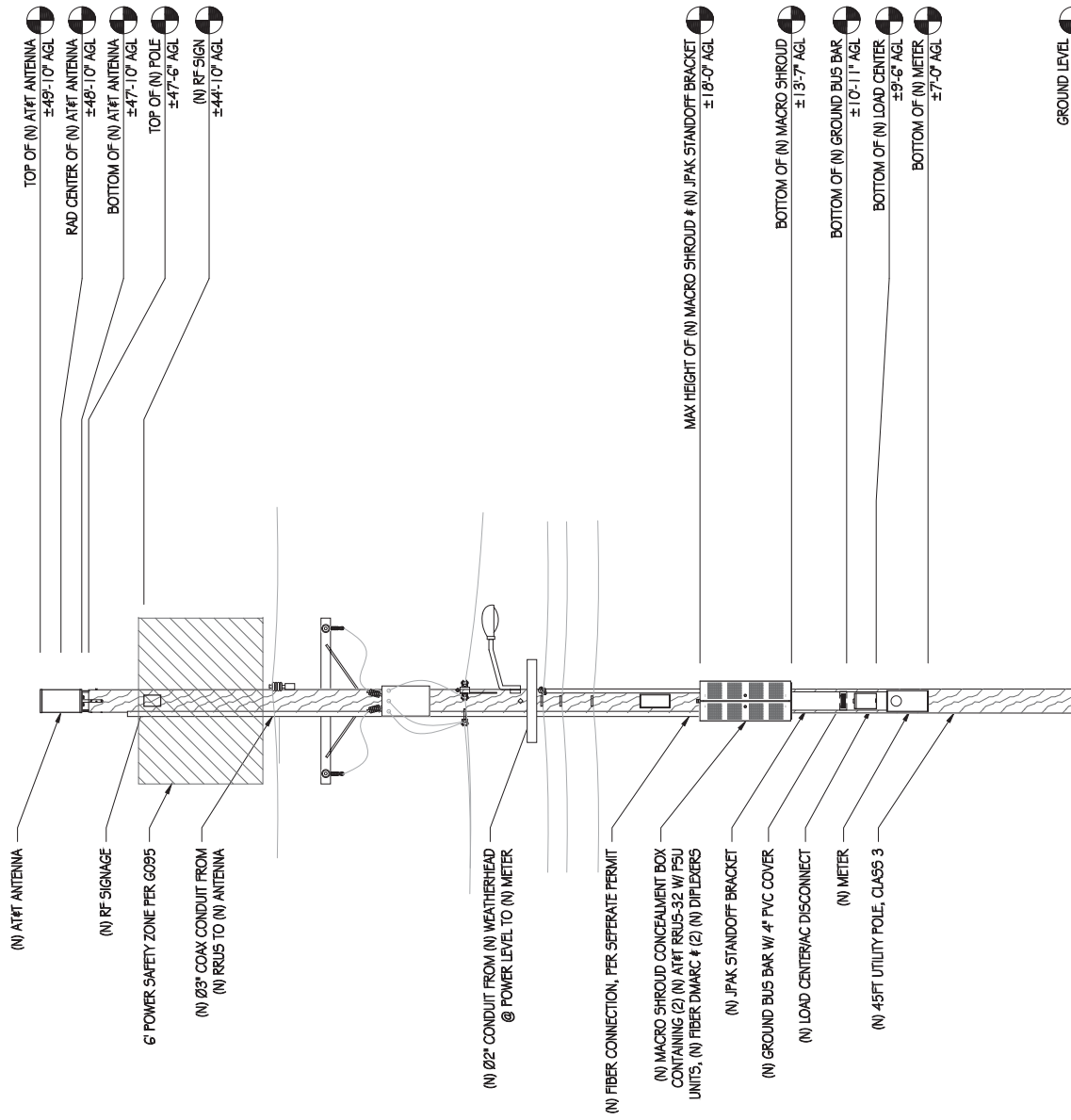


CRAN\_RSFR\_LOSAO\_06  
ROW ADJCT TO 791 LOS ALTOS AVE  
LOS ALTOS, CA 94022

ISSUE STATUS	
DATE	DESCRIPTION
06/13/16	CD 90%
10/29/16	CD 100%

DRAWN BY: O. REDDISH  
CHECKED BY: T. DCARLO  
APPROVED BY: B. MCCOMB  
DATE: 10/29/16  
SHEET TITLE:

ELEVATIONS  
SHEET NUMBER  
**A-3**





ART MOBILITY  
5001 DECUITTE PARKWAY  
SAN RAMON, CA 94583



36 DECUITTE PARK, SUITE 210  
IRVINE, CA 92614



11768 Alwood Rd, Suite 20 Auburn, CA 95603  
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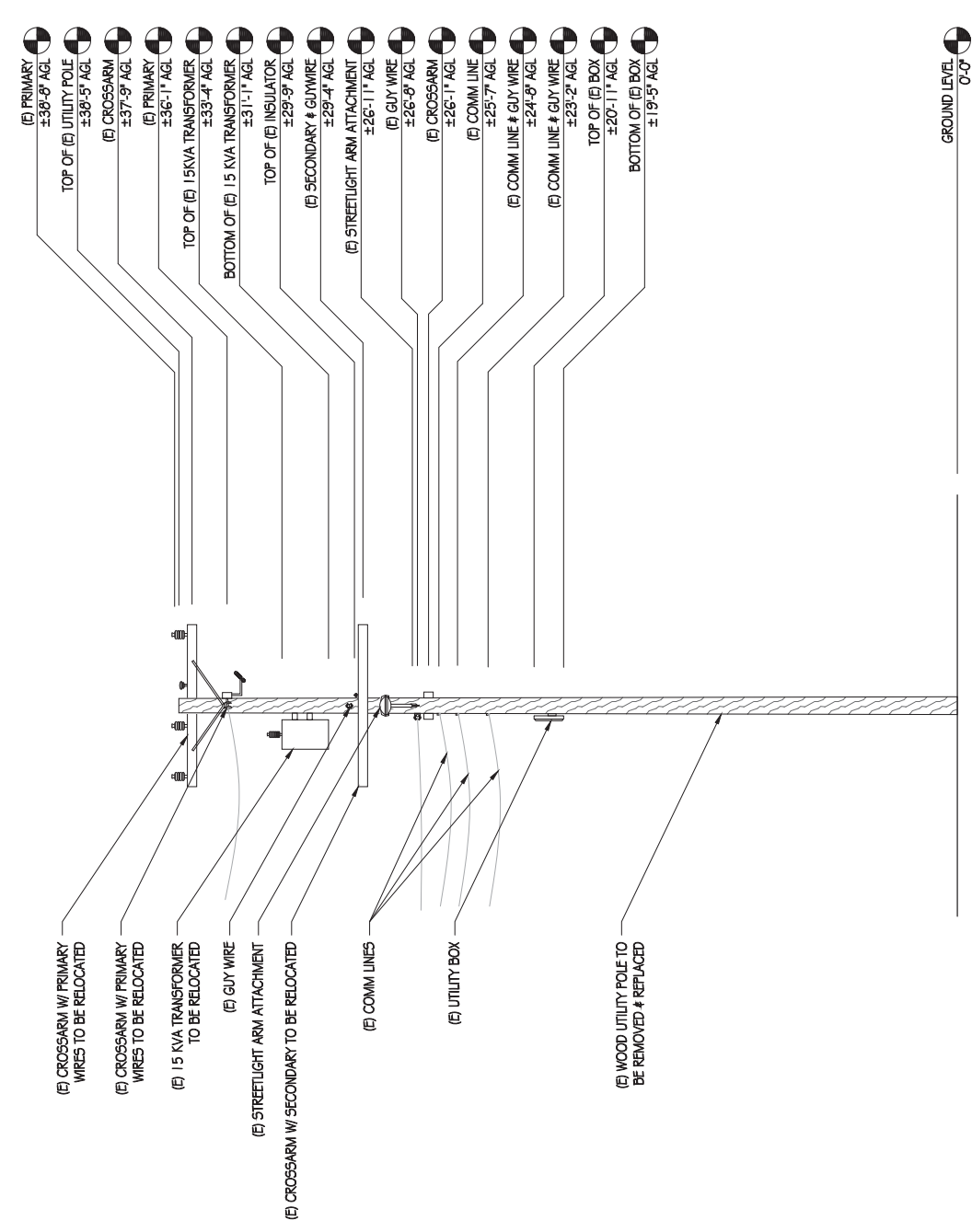
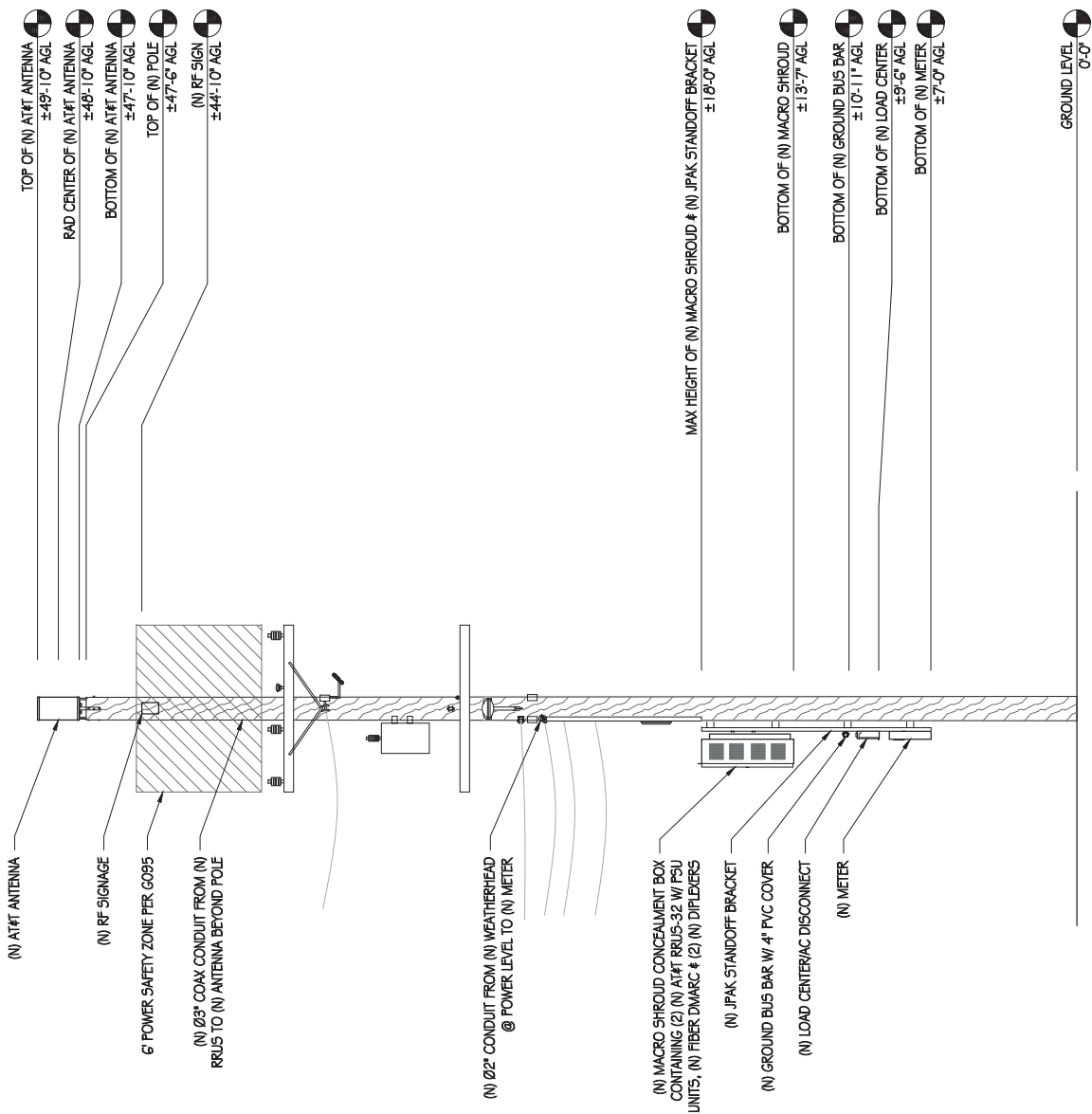
CRAN\_RSFR\_LOSAO\_06  
ROW ADJUCT TO 791 LOS AUTOS AVE  
LOS AUTOS, CA 94022

ISSUE STATUS	
DATE	DESCRIPTION
06/13/16	CD 90%
10/29/16	CD 100%

DRAWN BY: O. REDDIGH  
CHECKED BY: T. DCARLO  
APPROVED BY: B. MCCOMB  
DATE: 10/29/16  
SHEET TITLE:

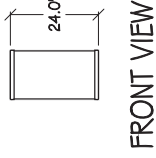
ELEVATIONS  
SHEET NUMBER

A-4

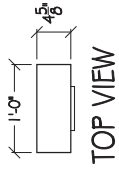


**KMW FX-OM2L1OH2-06T**

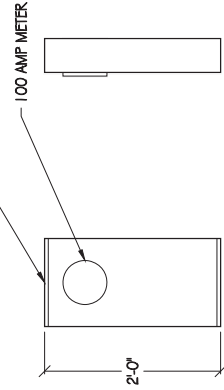
WIND AREA: 2.67 SQ FT  
 WEIGHT: 34.2 LBS  
 DIMENSIONS: Ø16.0" X 24.0" TALL  
 RF CONNECTORS: (12) 4-3-10 FEMALE



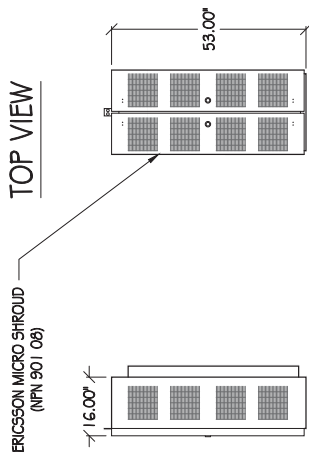
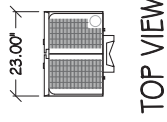
**1** 1/2"=1'  
**ANTENNA**



COOPER B-JUNE 1 (4) 1/8" ELECTRICAL PANEL TO MEET COMMERCIAL PG&E REQUIREMENTS WITH TEST BYPASS



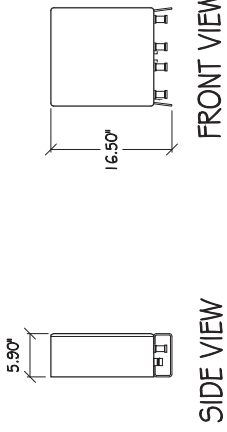
**5** 1"=1'  
**METER DETAIL**



**9** 1/2"=1'  
**MICRO SHROUD CONCEALMENT**

**ERICSSON RRUS-44 I 5**

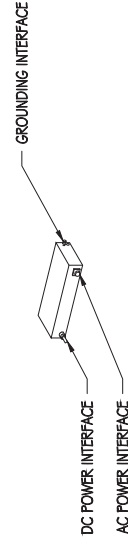
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



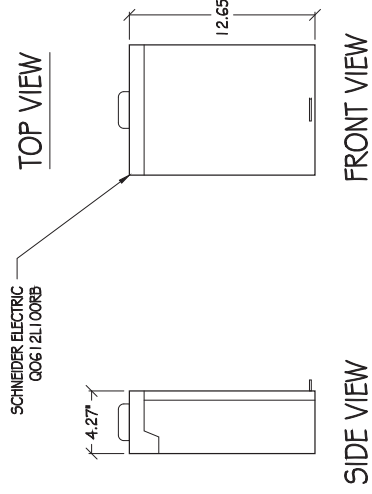
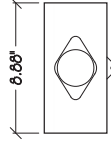
**2** 1"=1'  
**RRUS-44 I 5 DETAIL**

**ERICSSON PSU AC 08**

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



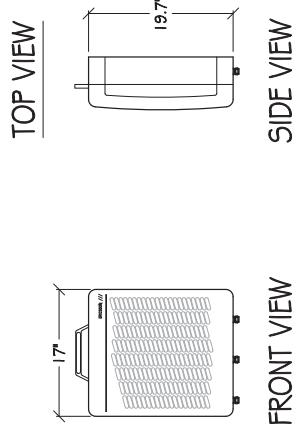
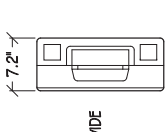
**6** NTS  
**AC POWER MODULE**



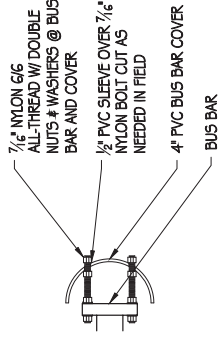
**7** 6"=1'  
**BUS BAR COVER**

**ERICSSON RRUS-1 I 1**

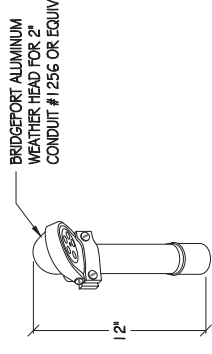
TOTAL WEIGHT: 55 LBS  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



**3** 1"=1'  
**RRUS-1 I 1 DETAIL**



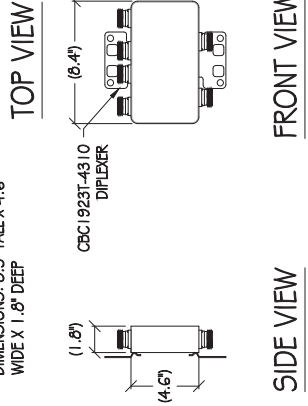
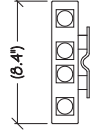
**8** NTS  
**WEATHER HEAD**



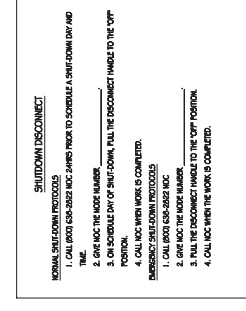
**8** NTS  
**WEATHER HEAD**

**COMMSCOPE  
 CBC1923T-4310  
 E11F13P06**

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



**4** 1"=6"  
**DIPLEXER DETAIL**

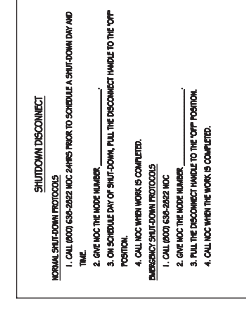
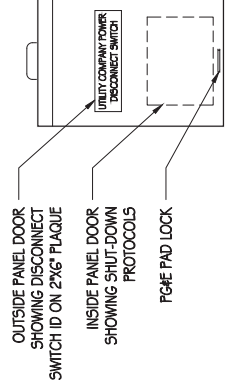


**3** 1"=1'  
**RRUS-1 I 1 DETAIL**

**7** 6"=1'  
**BUS BAR COVER**

**8** NTS  
**WEATHER HEAD**

**11** 3"=1'  
**DISCONNECT SIGNAGE**



**10** 1"=6"  
**LOAD CENTER/AC DISCONNECT**

**9** 1/2"=1'  
**MICRO SHROUD CONCEALMENT**

**11** 3"=1'  
**DISCONNECT SIGNAGE**

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



ART MOBILITY  
 5001 DECUITNE PARKWAY  
 SAN RAMON, CA 94583



36 DECUITNE PARK, SUITE 210  
 IRVINE, CA 92614



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

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CRAN\_RSFR\_LOSAO\_06  
 ROW ADJCT TO 791 LOS AUTOS AVE  
 LOS AUTOS, CA 94022

**ISSUE STATUS**

Δ	DATE	DESCRIPTION
	06/13/16	CD 90%
	10/29/16	CD 100%

DRAWN BY: O. REDDISH

CHECKED BY: T. DICARLO

APPROVED BY: B. MCCOMB

DATE: 10/29/16

SHEET TITLE:

DETAILS

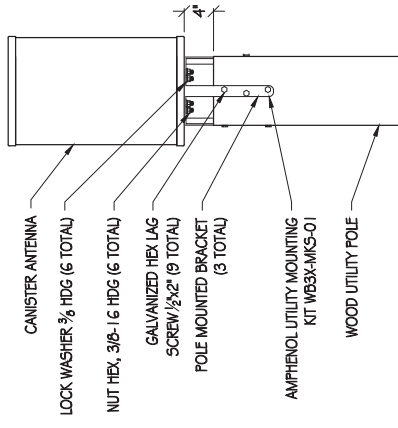
SHEET NUMBER

**A-5**



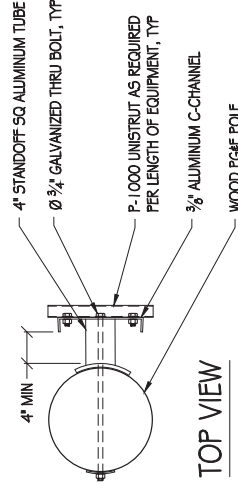
## STRUCTURAL STEEL NOTES:

1. 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.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE SHAPES) TO BE ASTM A992 (F<sub>y</sub>=50,000 PS) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (15 OR H59) SHALL BE ASTM A500 (GRADE B (F<sub>y</sub>=46,000 PS)). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F<sub>y</sub>=35,000 PS)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D.1.1, 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.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
5. 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.
6. THREADED RODS SHALL BE ASTM F593 CV 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
7. 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.
8. 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.
9. 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.
10. AT ALL WEB STIFFENER PLATES LEAVE 3/16" (OR 1/8" WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

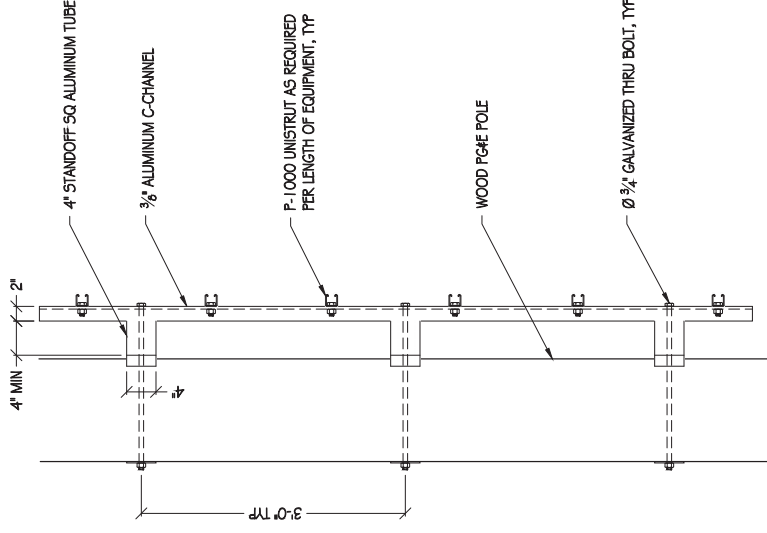


## POLE-TOP ANTENNA MOUNT DETAIL

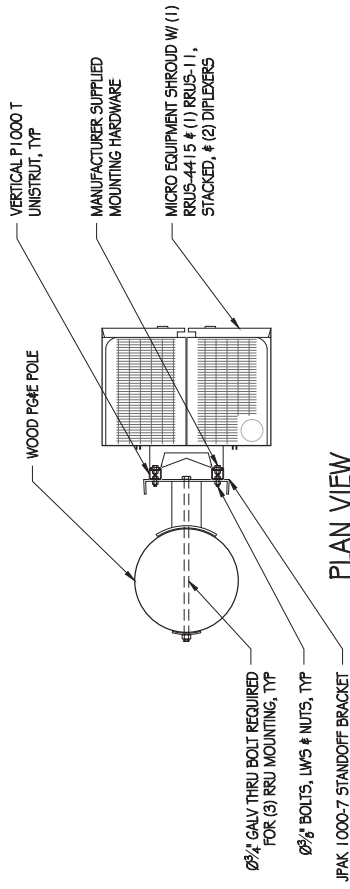
1 1"=1'



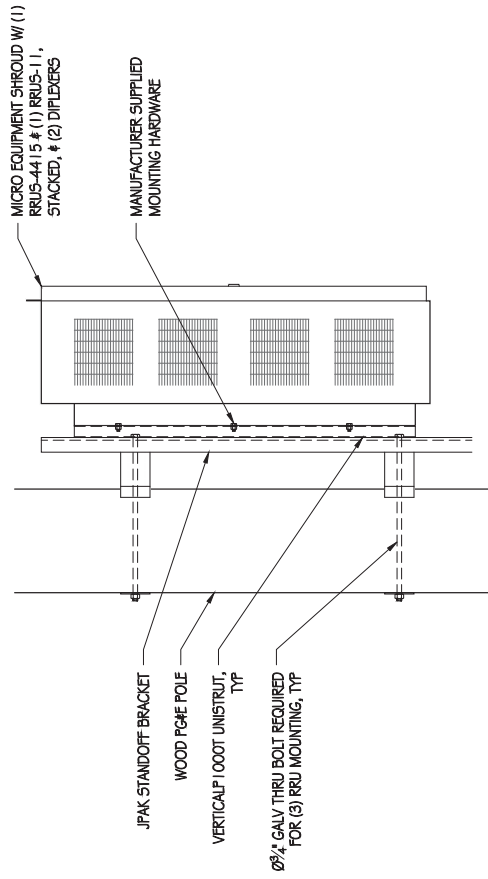
TOP VIEW



FRONT VIEW



PLAN VIEW



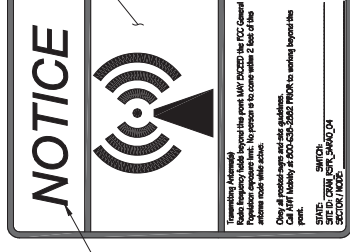
SIDE VIEW

## RRU MOUNTING DETAIL

3 1"=1'

## JPAK STANDOFF DETAIL

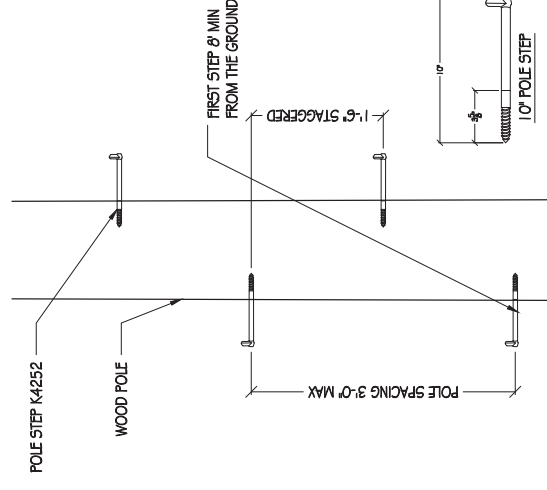
4 1"=1'



## NOTICE SIGNAGE

2 NTS

NOTES:  
NOTICE IS A VINYL STICKER ADHERED TO POLE



## POLE STEP

5 1"=1'

NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



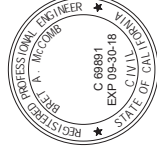
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SAN RAMON, CA 94583



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LOS AUTOS, CA 94022

## ISSUE STATUS

Δ	DATE	DESCRIPTION
	06/13/16	CD 90%
	10/29/16	CD 100%

DRAWN BY: O. REDDISH  
CHECKED BY: T. DCARLO  
APPROVED BY: B. MCCOMB  
DATE: 10/29/16

SHEET TITLE:

DETAILS

SHEET NUMBER

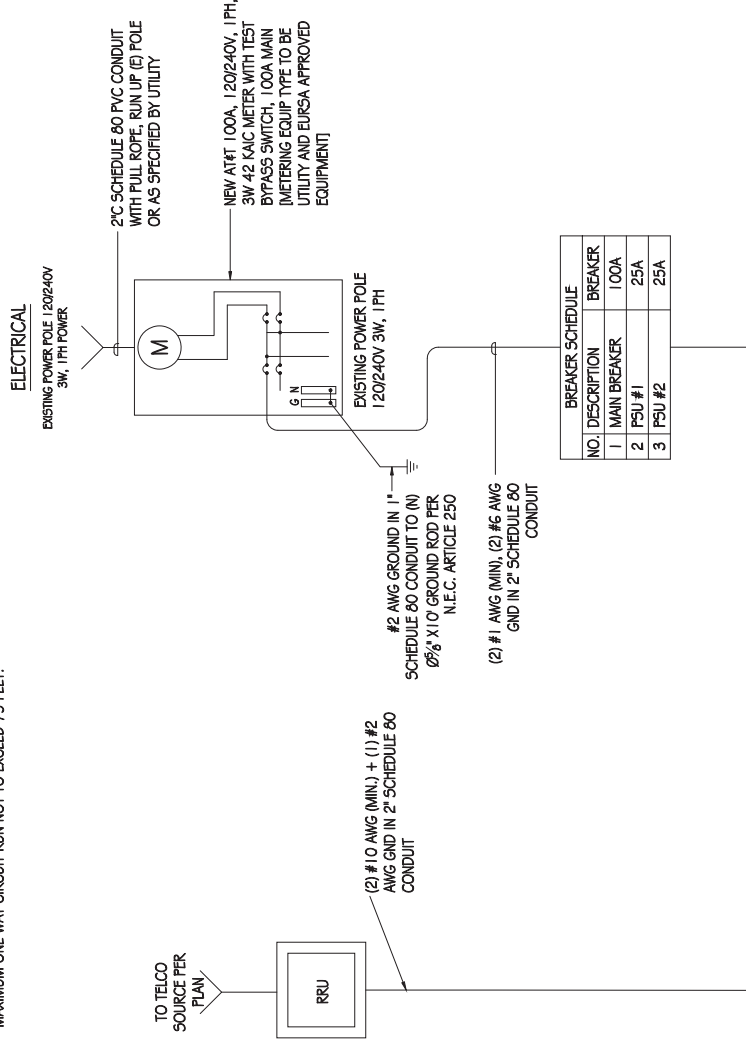
A-6

**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 TITLE24, 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 THW.
8. OPENING CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENVELOPE. MASTIC SEAL ALL CONDUIT 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:**

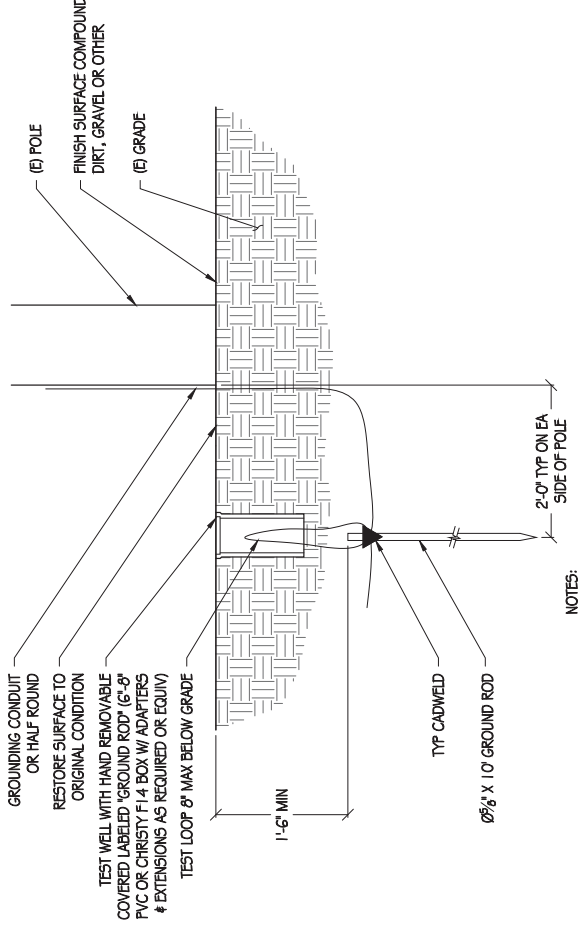
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORKMATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE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

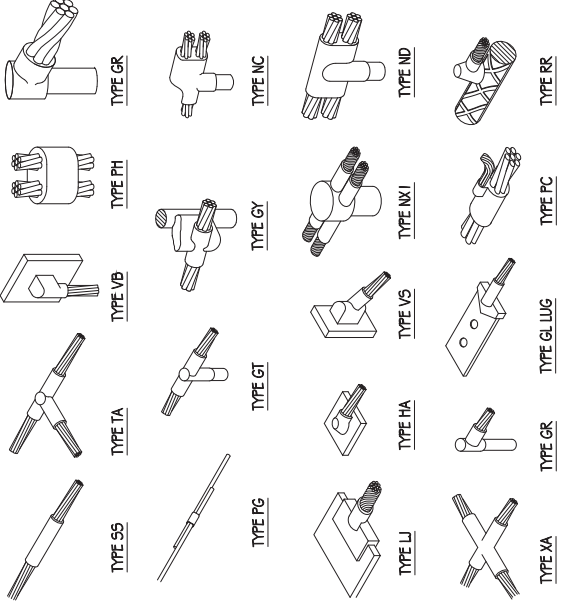
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TYPE	MAX TRANSMIT POWER	W	KW
ERICSSON RRU5-4415	1	RRUS	16.5" X 13.4" X 5.9"	46 LBS	212R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRUS	19.7" X 17.0" X 7.2"	55 LBS	212R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 6.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A	N/A



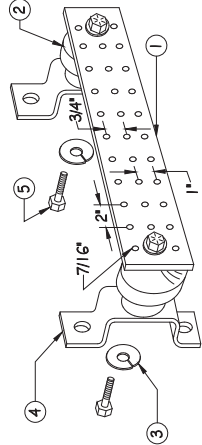
**POLE GROUNDING DETAIL**

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

**EXOTHERMIC WELD DETAILS**



**4 NTS**

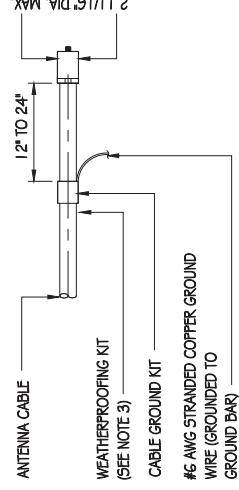


NOTES:

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 I-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**



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**

**3 NTS**

**2 NTS**

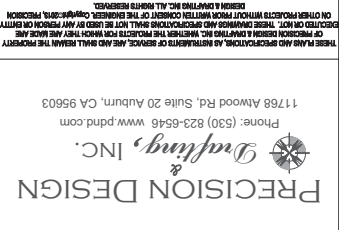
**1 NTS**



ART MOBILITY  
5001 DECIJUTE PARKWAY  
SAN RAMON, CA 94583



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IRVINE, CA 92614



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Phone: (530) 823-6546 www.pdnd.com



CRAN\_RSFR\_LOSAO\_06  
ROW ADJCT TO 791 LOS AUTOS AVE  
LOS AUTOS, CA 94022

ISSUE STATUS	
Δ	DESCRIPTION
06/31/16	CD 90%
10/29/16	CD 100%

DRAWN BY: O. REDDISH  
CHECKED BY: T. DCARLO  
APPROVED BY: B. McCOMB  
DATE: 10/29/16

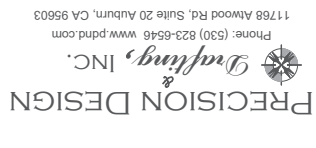
SHEET TITLE:  
SINGLE-LINE DIAGRAM & DETAILS  
SHEET NUMBER  
**E-1**



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



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



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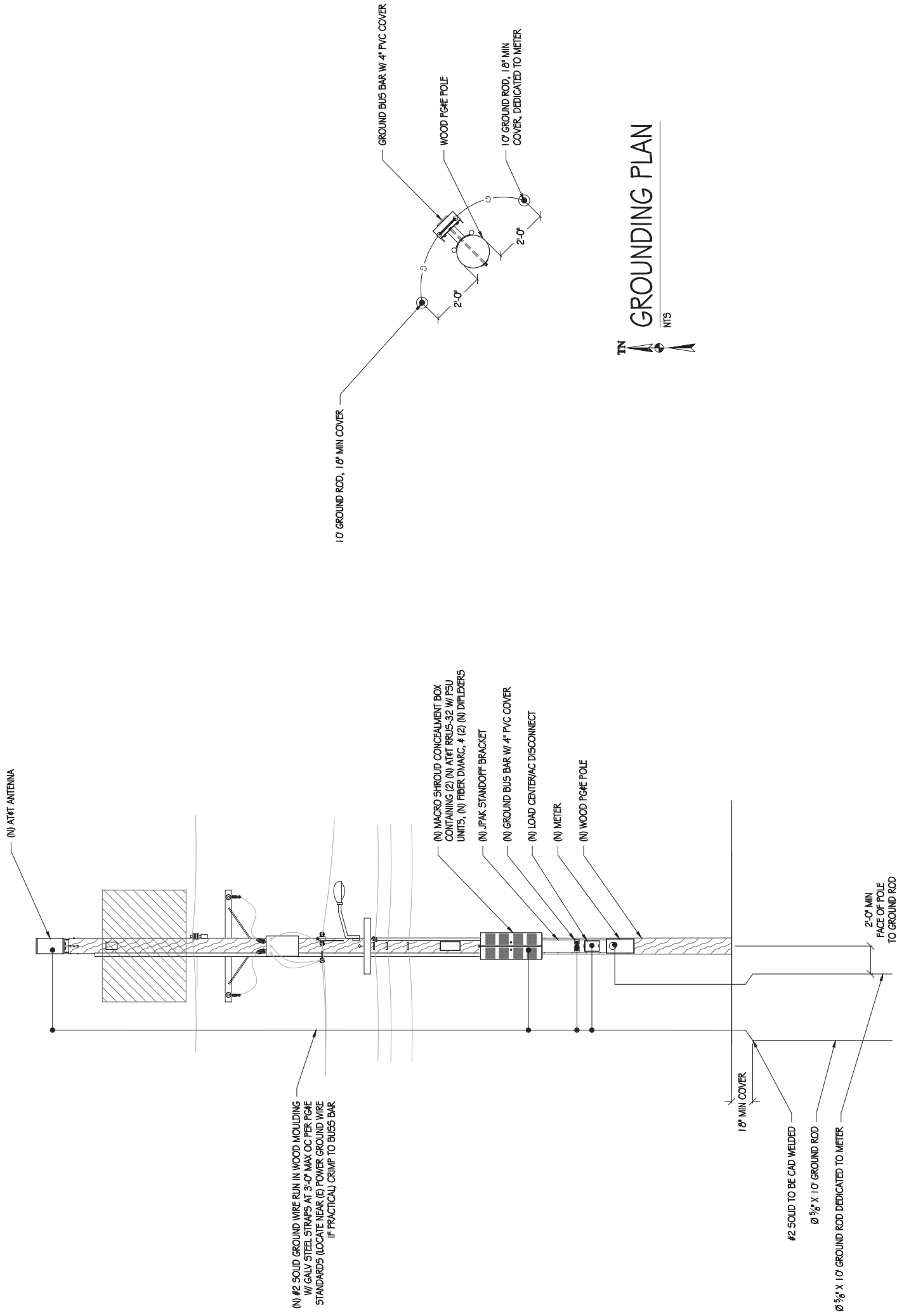
ISSUE STATUS

Δ	DATE	DESCRIPTION
	06/13/16	CD 90%
	10/29/16	CD 100%

DRAWN BY: O. REDDISH  
CHECKED BY: T. DCARLO  
APPROVED BY: B. MCCOMB  
DATE: 10/29/16  
SHEET TITLE:

GROUNDING DIAGRAMS  
SHEET NUMBER

E-2



GROUNDING PLAN  
NTS

POLE GROUNDING DIAGRAM  
NTS









# at&t

SITE ID: CRAN\_RSFR\_LOSAO\_06  
 SITE ADDRESS: 791 LOS ALTOS AVE  
 LOS ALTOS, CA 94022  
 PM#: 114474404  
 SITE TYPE: BRAND NEW PG&E POLE #TBD  
 POLE OWNER: PG&E  
 FA LOCATION: 14816595  
 USID: 198300



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



36 EXECUTIVE PARK, SUITE 210  
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 LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/13/18	CD 90%
	07/25/19	CD 100%

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

SHEET TITLE:

TITLE SHEET

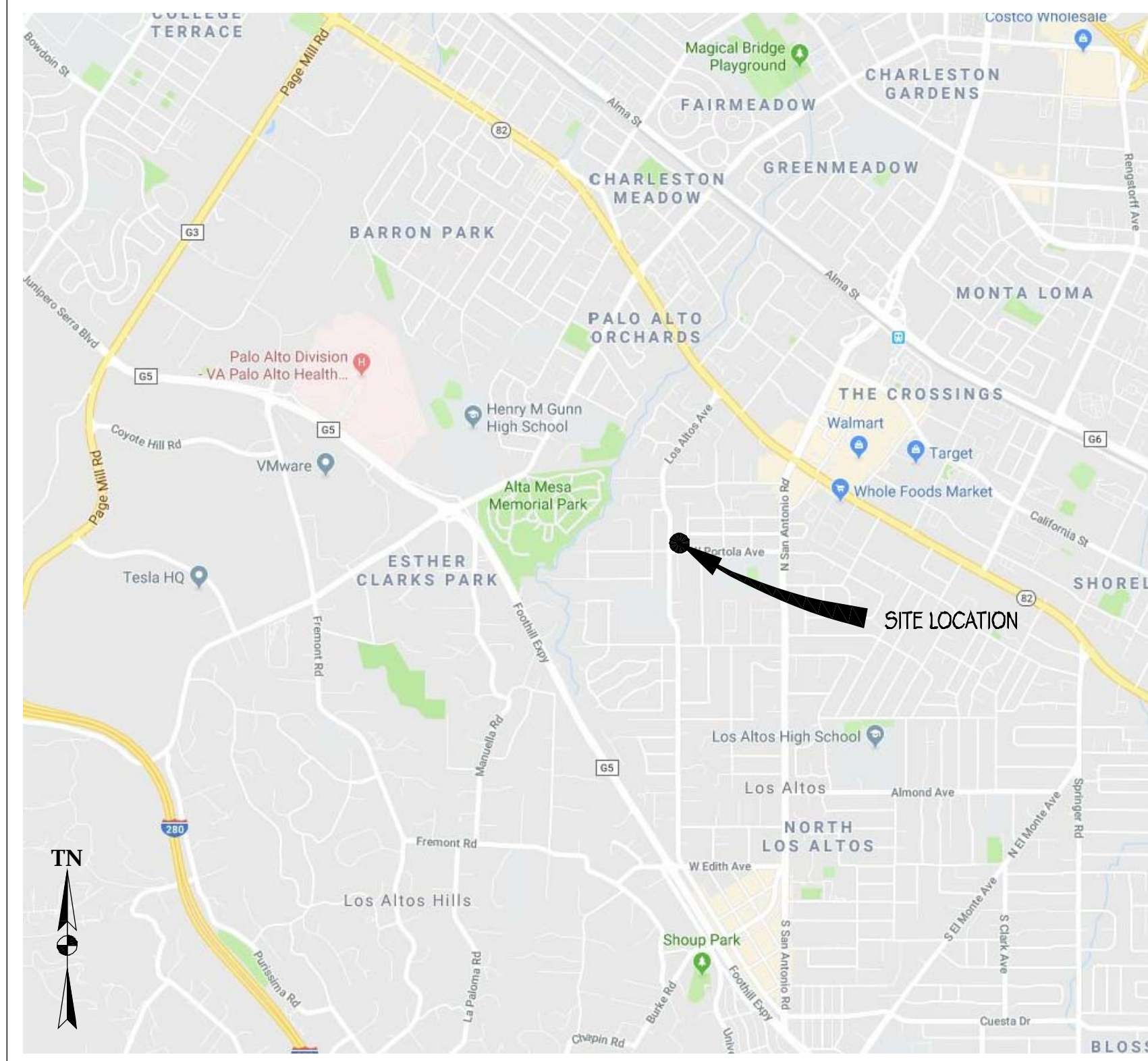
SHEET NUMBER

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 167-21-034  
 SITE ADDRESS: 791 LOS ALTOS AVE  
 LOS ALTOS, CA 94022  
 COUNTY: SANTA CLARA  
 LATITUDE: 37° 23' 48.39" N (37.396775) NAD 83  
 LONGITUDE: 122° 07' 16.43" W (-122.121231) NAD 83  
 GROUND ELEVATION: ±99.9' AMSL  
 ZONING: PUBLIC ROW  
 ZONING JURISDICTION: LOS ALTOS  
 PG&E SAP ID: 100508715  
 STREET CLASSIFICATION: LOCAL 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 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

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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: 791 LOS ALTOS 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 MIDDLE LANE TO TURN RIGHT ONTO BOLLING 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 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880 0.2 MI
- KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION LVD W MERGE ONTO CA-262 0.3 MI
- MERGE ONTO CA-262 S MISSION BLVD 0.6 MI
- USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD I-880 S/SAN JOSE 0.9 MI
- MERGE ONTO I-880 S 3.1 MI
- USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
- CONTINUE ONTO CA-237 W 8.4 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 0.2 MI
- TURN RIGHT ONTO E PORTOLA AVE 0.6 MI

END AT: 791 LOS ALTOS AVE, LOS ALTOS, CA 94022  
 ESTIMATED TIME: 48 MINS ESTIMATED DISTANCE: 40 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.



## GENERAL CONSTRUCTION NOTES

- PLANS ARE INTENDED TO BE DIAGRAMMATIC 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.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYORS 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 CAREFUL ELEMENTS 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.
- 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.
- DO NOT EXCAVATE OR DISTURB BEYOND 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 VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS 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 HIS/HER OWN RISK AND EXPENSE.

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 AND/OR FIELD TILE ENCOUNTERED/ DISRUPTED 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 "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.

13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

14. INCLUDE MISC ITEMS PER AIAI WIRELESS SPECIFICATIONS.

15. ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHUTDOWN SIGNALS) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RUGS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.

16. FOUNDED RF WAC MARKING 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 STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED MESA BROWN USING A DURABLE OUTDOOR PAINT.

18. CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, & 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		PLYWOOD
	TELEPHONE BOX		SAND
	LIGHT POLE		WOOD CONT.
	FND. MONUMENT		WOOD BLOCKING
	SPOT ELEVATION		STEEL
	SET POINT		CENTERLINE
	REVISION		PROPERTY LINE
	GRID REFERENCE		MATCH LINE
	DETAIL REFERENCE		WORK POINT
	ELEVATION REFERENCE		GROUND CONDUCTOR
	SECTION REFERENCE		COAX
			OVERHEAD SERVICE CONDUCTORS
			CHAIN LINK FENCING
			OVERHEAD TELEPHONE/OVERHEAD POWER
			OHT
			OHP
			POWER RUN

## GENERAL NOTES FOR EXISTING CELL SITES

- 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.
- 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.
- 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.
- 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 EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER AND GROUNDING PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.

## APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- 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, ASD, NINTH EDITION
  - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
  - INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
  - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
  - TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS)- PHYSICAL PROTECTION
  - TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
  - TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
  - TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
- ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

## GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
- ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
- IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 1" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BACKFILL.
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #1 & 6 WARNING TAPE ABOVE RING.

## GENERAL GROUNDING NOTES

- 5/8" x 10' ROD, CAD WELD BELOW GRADE.
- GROUND TESTED AT 5 OHMS OR LESS.
- #2 GROUND AND BOND WIRE.
- GROUND 2' MIN FROM POLE.
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3' AND AT EACH END, UNLESS OTHERWISE NOTED.

## GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUBS SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

## TYPICAL R.O.W. POLE CONSTRUCTION NOTES

- CABLE NOT TO IMPEDE 15' CLEAR SPACE OFF POLE FACE.
- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
- NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
- ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMBERS TO BE FILLED.
- 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
- USE 90° CONNECTOR AT CABLE CONNECTION FOR OMNI DOWN ANTENNAS.
- USE CABLE CLAMPS TO SECURE CABLE TO ARMS, PLACE 2" T-MOBILE CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
- USE 1/2" DIA. CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
- FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

## ABBREVIATIONS

A	AMPERE	HT	HEIGHT
AB	ANCHOR BOLT	ICB	ISOLATED COPPER GROUND BUSH
ABY	ABOVE	IN, (I)	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT	INTERIOR
ADD	ADDITIONAL	LB, (L)	POUNDS
AFF	ABOVE FINISHED FLOOR	LAG	LAG BOLTS
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET (FOOT)
AG	AMPERE INTERRUPTING CAPACITY	LEN	LENGTH
ALUM	ALUMINUM	LTH	LONGITUDINAL
ALT	ALTERNATE	LP5	LOW PRESSURE SODIUM
ANT	ANTENNA	MAS	MAXIMUM
APPROX	APPROXIMATELY	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MB	MACHINE BOLT
AT	AMPERE TAP	MECH	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR	MANUFACTURER
BATT	BATTERY	MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BLDG	BUILDING	MNL	MANUAL
BLK	BLOCK	MNTD	MOUNTED
BLDG	BLOCKING	MNTG	MOUNTING
BM	BEAM	MTL	METAL
BN	BOUNDARY NAILING	MTS	MANUAL TRANSFER SWITCH
BR	BRAVED	N	NEUTRAL
BRKR	BREAKER	NI	NEW
BTOW	BARE TINNED COPPER WIRE	NI	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BTS	BASE TRANSMISSION SYSTEM	NO, (N)	NOT TO SCALE
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BU	BACK UP CABINET	OH	OVERHEAD
C	CONDUIT	OC	ON CENTER
CAB	CABINET	OPNG	OPENING
CANT	CANTILEVERED	P	POLE
CB	CIRCUIT BREAKER	PC	PRECAST CONCRETE
CP	CAST IN PLACE	PCCS	PERSONAL COMMUNICATION SERVICES
CR	CIRCUIT	PH	PHASE
CLG	CEILING	PLY	PLYWOOD
CLR	CLEAR	PNBD	POWER PROTECTION CABINET
COL	COLUMN	PFC	PRIMARY RADIO CABINET
CONN	CONNECTION	PRI	PRIMARY
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONN	CONNECTION(OR)	PSI	POUNDS PER SQUARE INCH
CONST	CONSTRUCTION	PT	PRESSURE TREATED
CONT	CONTAINER	QTY	QUANTITY
J	JOINT	RAD, (R)	RADIUS
DBL	DOUBLE	RCPT	RECEPTACLE
DEM	DEMAND	RFS	REINFORCEMENT
DEPT	DEPARTMENT	REIN	REINFORCEMENT(ING)
DEPT	DEPARTMENT	REQD	REQUIRED
DF	DOUGLAS FIR	RIGD	RIGID GALVANIZED STEEL
DM	DIMENSION	SAF	SAFETY
DIAG	DIAGONAL	SCH	SCHEDULE
DIM	DIMENSION	SCH	SECONDARY
DWG	DRAWINGS	SEC	SECONDARY
DWL	DOWELS	SEC	SECONDARY
EAC	EMERGENCY GENERATOR RECEPTACLE	SH	SHEET
EGR	ELEVATION	SIM	SOLID NEUTRAL
EL	ELECTRICAL	SN	SPECIFICATIONS
ELEV	ELEVATION	SP	STAINLESS STEEL
EMT	ELECTRICAL METALLIC TUBING	STD	STANDARD
EN	ENCLOSURE	STR	STRUCTURAL
ENCL	ENCLOSURE	SURF	SURFACE
ENGR	ENGINEER	SW	SWITCH
EQ	EQUAL	TEL	TELEPHONE </td
EQ	EQUAL	TEMP	TEMPORARY
EXST, (D)	EXISTING	THICK	THICKNESS
EXP	EXPANSION	TN	TOE NAIL
EXT	EXTERIOR	TOA	TOP OF ANTENNA
FAB	FABRICATION(OR)	TOC	TOP OF CURB
FAC	FACE	TOP	TOP OF FOUNDATION
FA	FIRE ALARM	TOP	TOP OF PLATE (PARAPET)
FF	FINISH FLOOR	TOP	TOP OF CONCRETE
FG	FINISH GRADE	TOP	TOP OF MASONRY
FN	FINISHED	TOP	TOP OF STUD
FLR	FLOOR	TOW	TOP OF WALL
FLUR	FLUORESCENT	TP	TYPICAL
FM	FOUNDATION	UL	UNDERWRITERS LABORATORY INC.
FOM	FACE OF MASONRY	UNO	UNLESS NOTED OTHERWISE
FOC	FACE OF CONCRETE	VAC	VOLTS ALTERNATING CURRENT
POS	FACE OF STUD	VIF	VERIFY IN FIELD
POW	FACE OF WALL	W	WAIT OR WIRE
POW	FACE OF WALL	WD	WIDEN(OR)
PT, (P)	FINISH SURFACE	WID	WIDEN(OR)
FT, (F)	FOOT (FEET)	WIT	WITNESS
FTG	FOOTING	WO	WOOD
FU	FUSE	WTR	WEATHERPROOF
G	GROUND	WT	WEIGHT
GR	GROWTH (CABINET)	XFR	TRANSFER
GA	GAUGE	XTMR	TRANSFORMER
GEN	GENERATOR	C	CENTERLINE
GALV	GALVANIZED	E	PLATE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
GLB	GLUE LAMINATED BEAM		
GND	GROUND		
GNS	GLOBAL POSITIONING SYSTEM		
GRD	GROUND		
HDC	HARD DRAWN COPPER WIRE		
HDS	HOT-DIP GALVANIZED		
HDR	HANGER		
HGR	HANGER		
HPS	HIGH PRESSURE SODIUM		



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



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

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## CRAN\_RSFR\_LOSAO\_06

791 LOS ALTOS AVE  
LOS ALTOS, CA 94022

## ISSUE STATUS

△	DATE	DESCRIPTION
	06/13/18	CD 90%
	07/25/19	CD 100%

DRAWN BY: T. JONES  
CHECKED BY: T. D'CARLO  
APPROVED BY: B. McCOMB  
DATE: 07/25/19

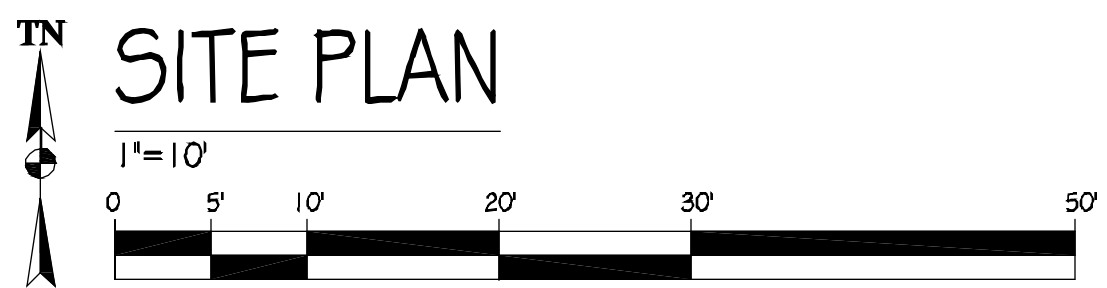
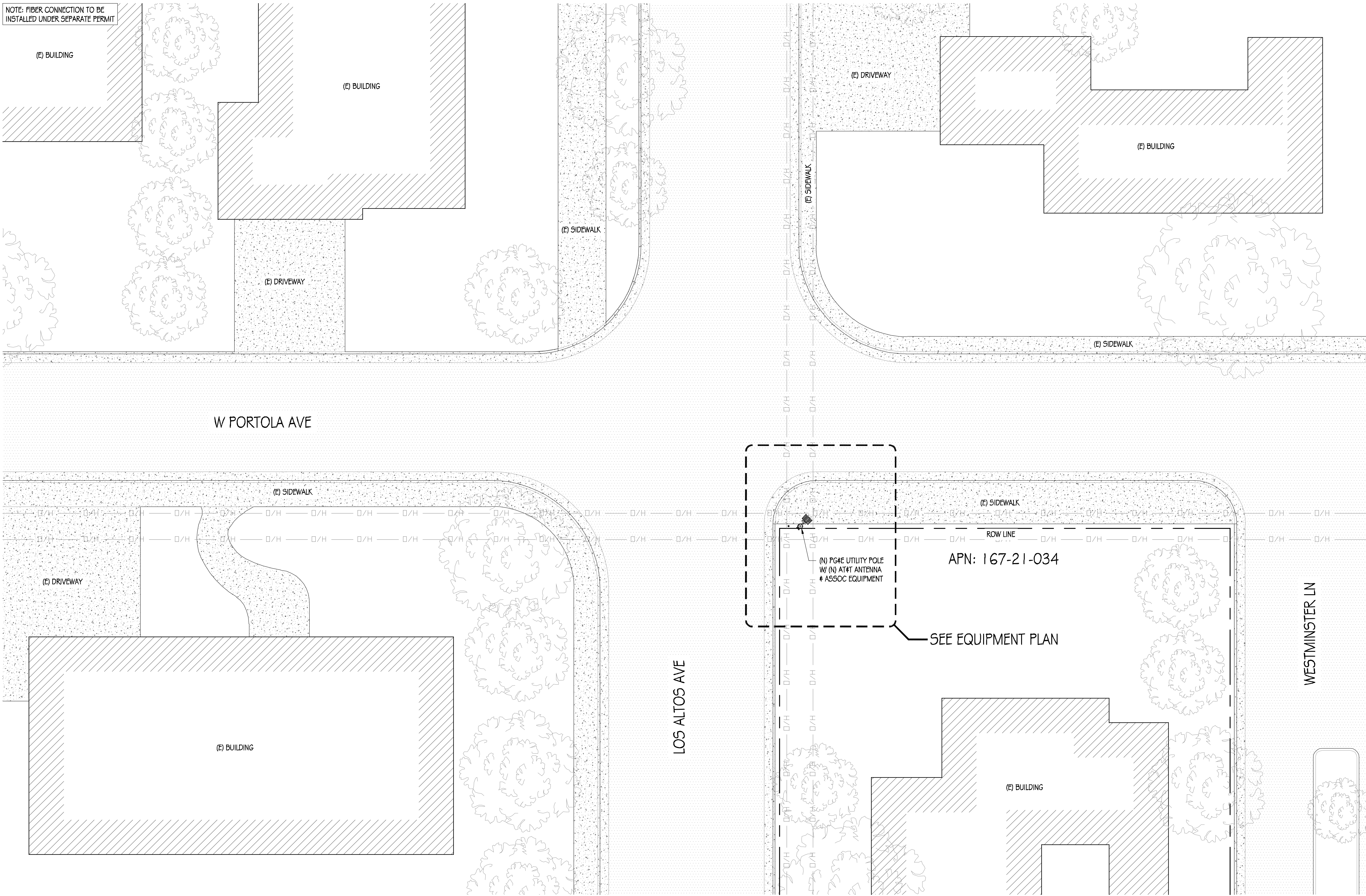
SHEET TITLE:  
GENERAL NOTES, LEGEND,  
& ABBREVIATIONS

SHEET NUMBER

T-2



NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



**SITE PLAN**



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



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

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DRAWN BY: T. JONES

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SHEET TITLE:

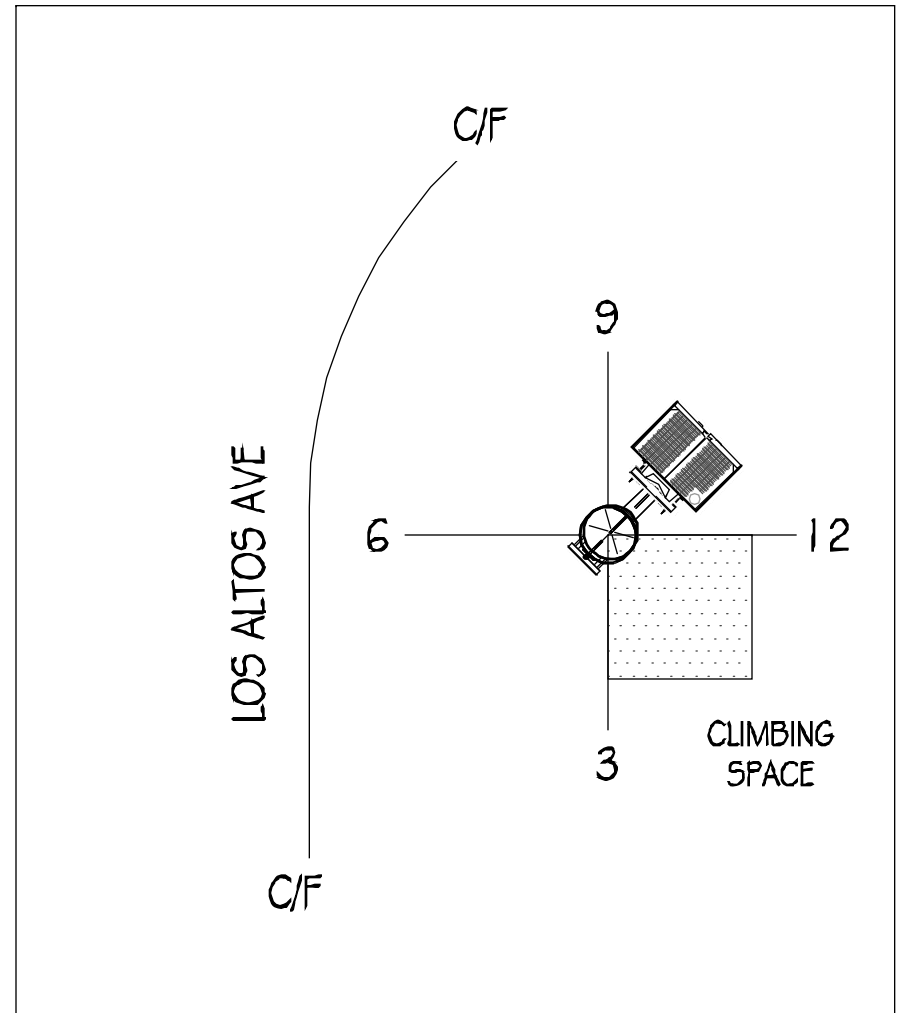
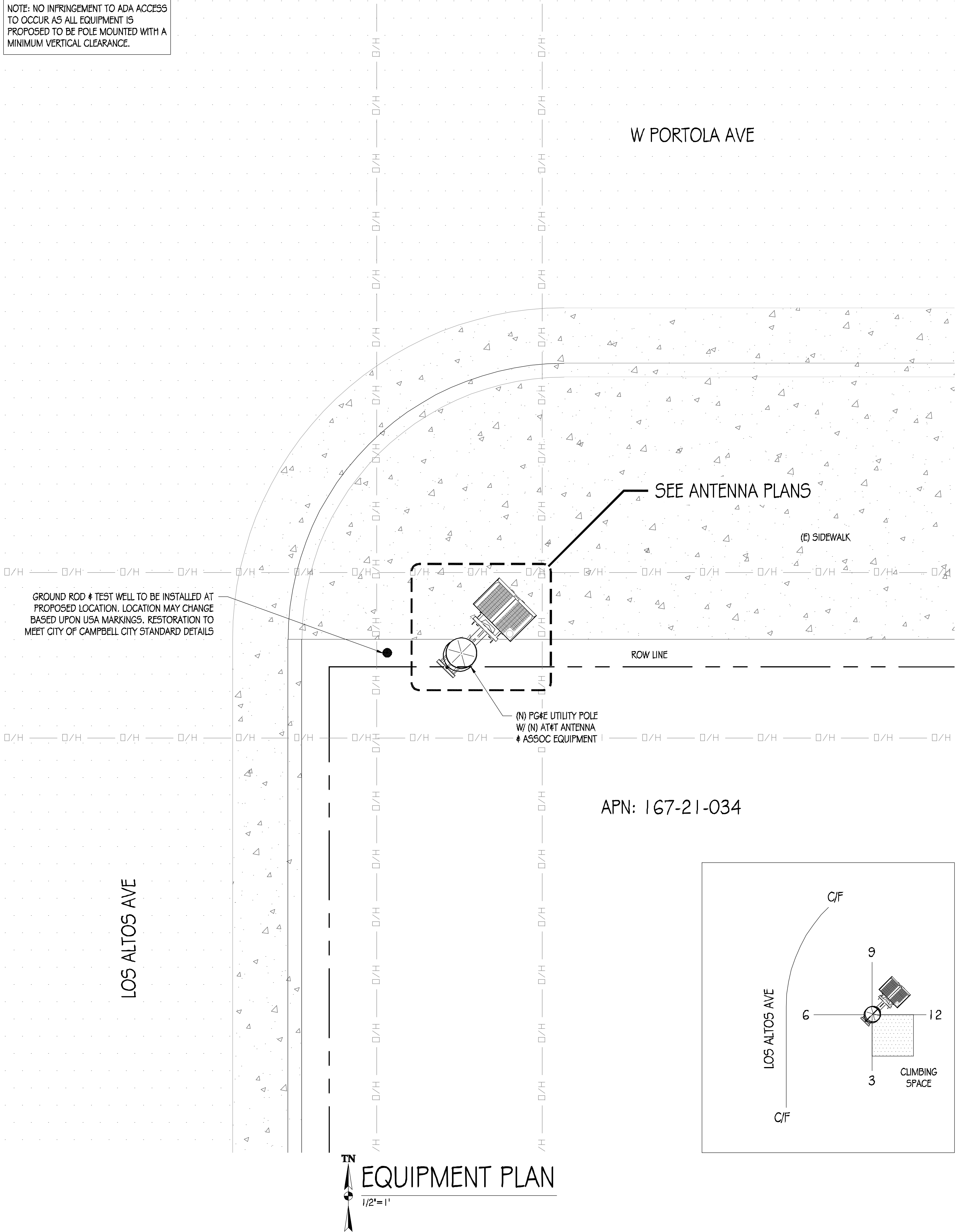
SITE PLAN

SHEET NUMBER

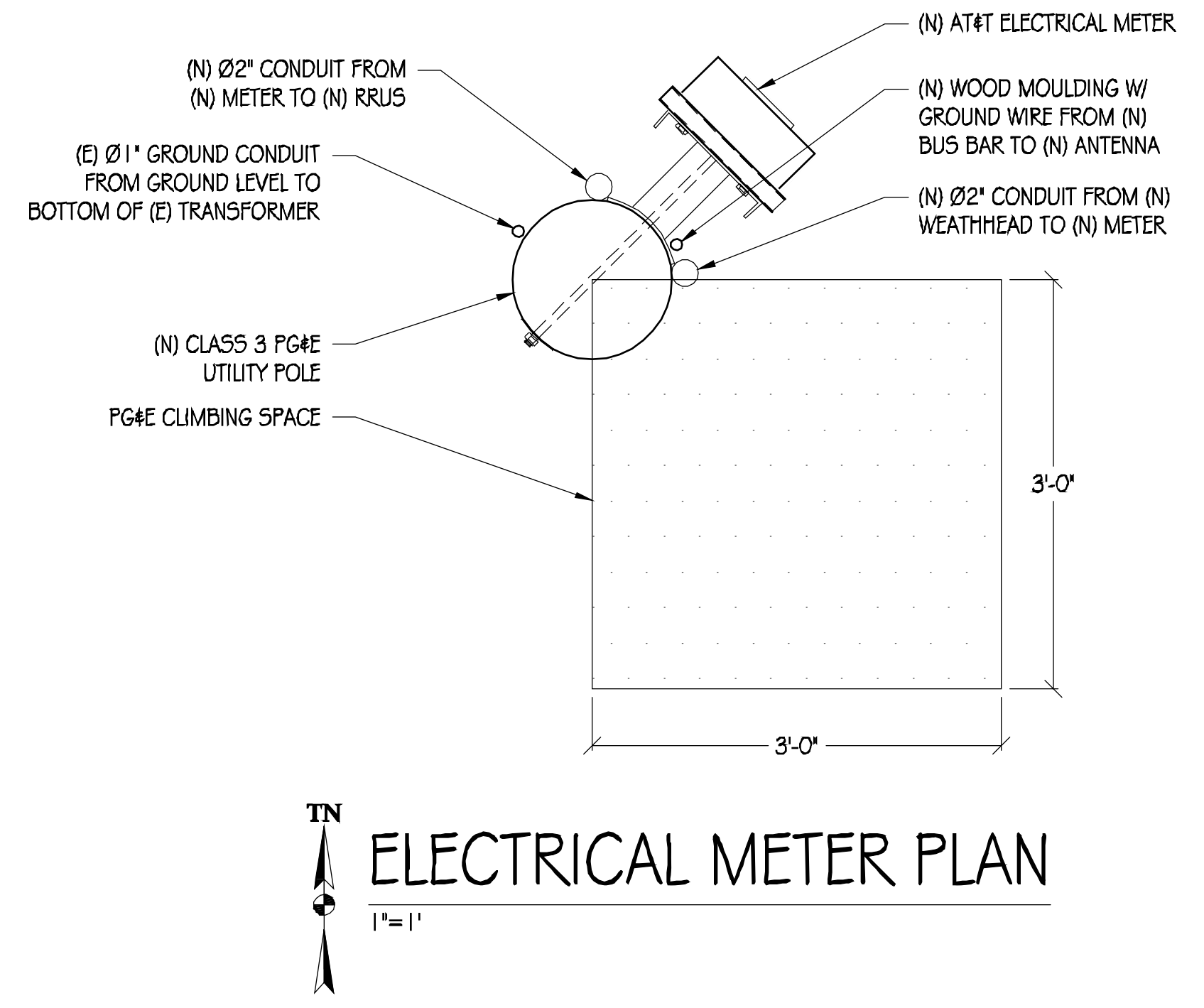
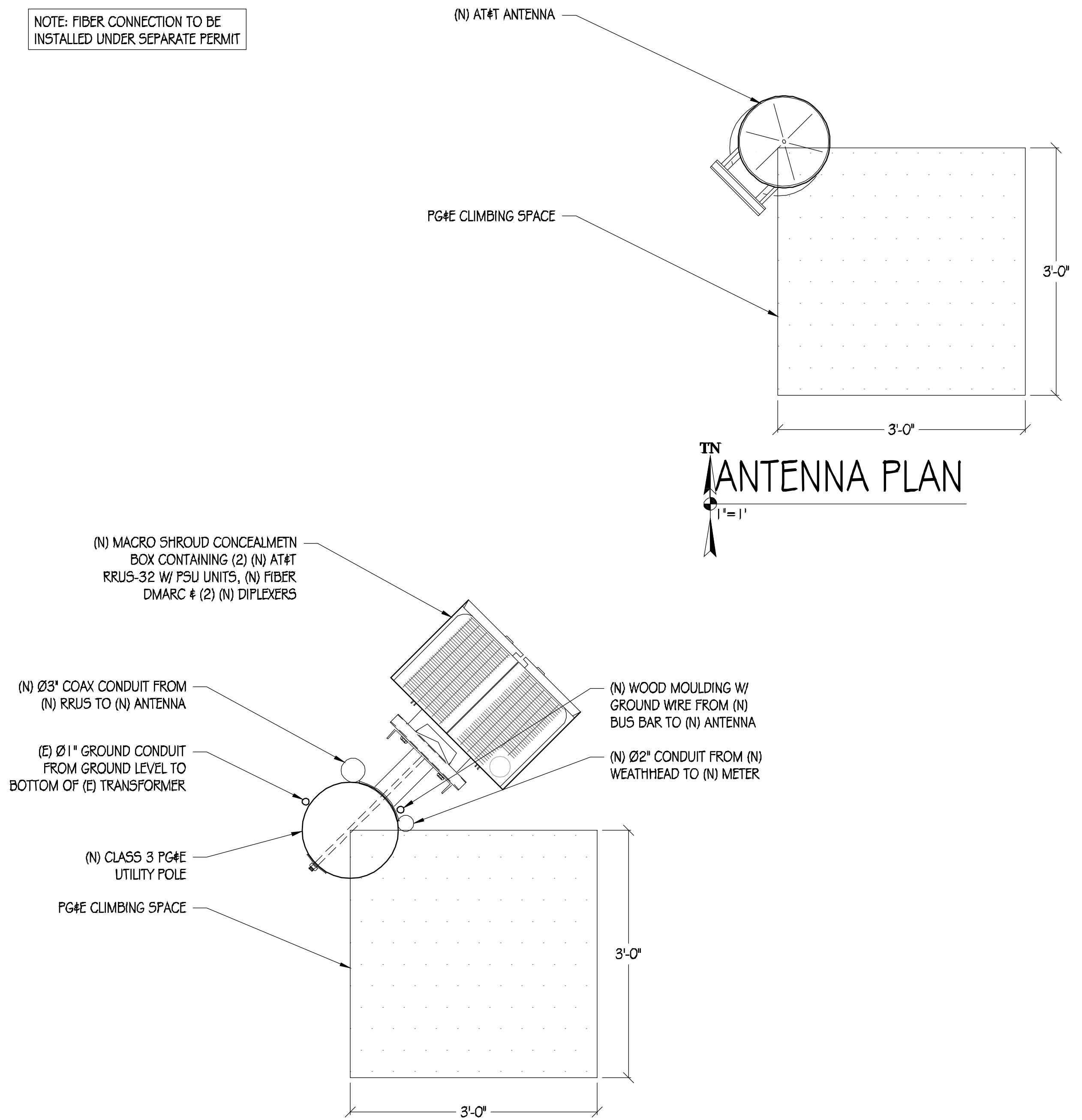
**A-1**



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



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  
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	07/25/19	CD 100%

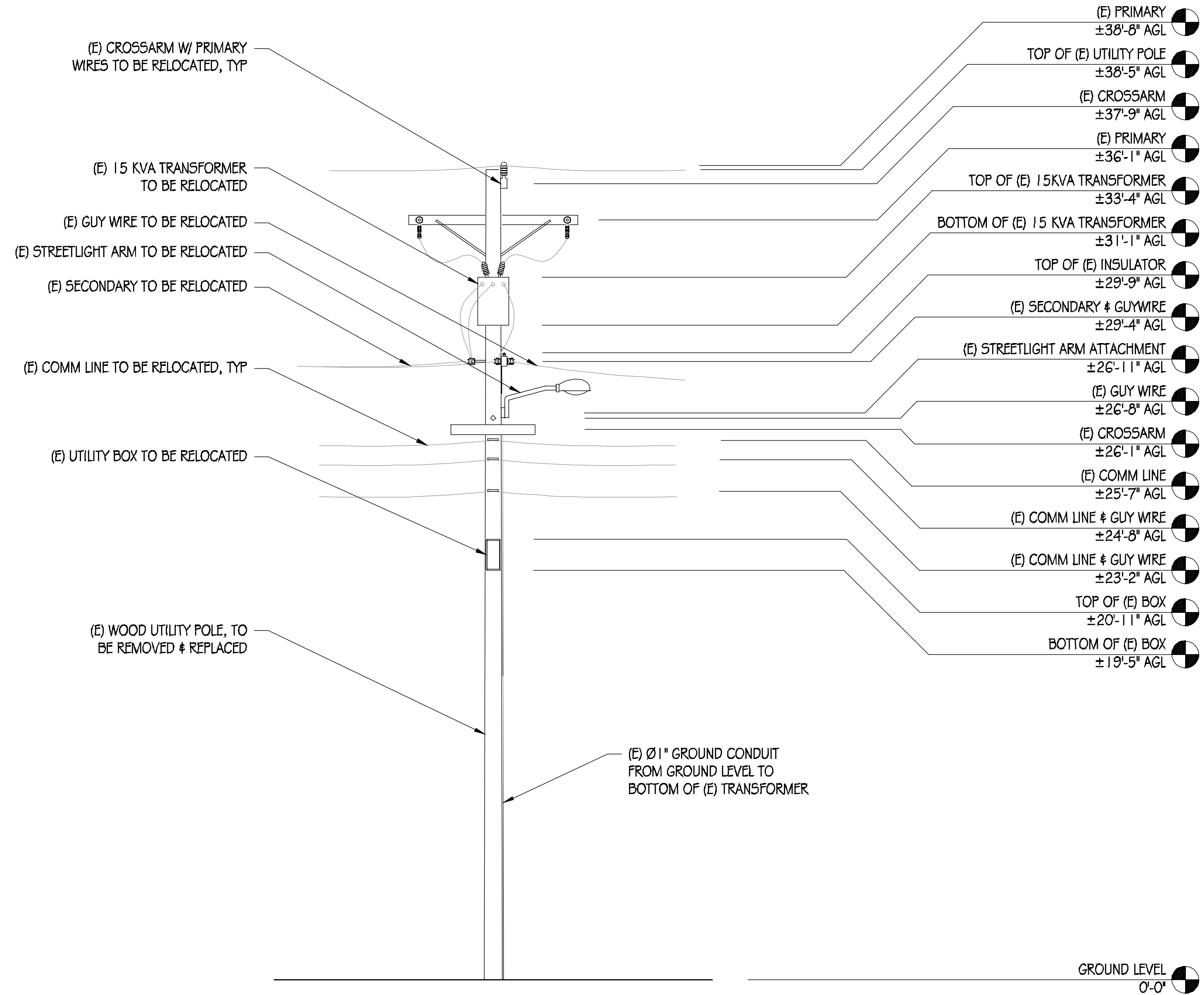
DRAWN BY: T. JONES  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 07/25/19

SHEET TITLE:  
EQUIPMENT PLAN #  
ANTENNA PLANS

SHEET NUMBER

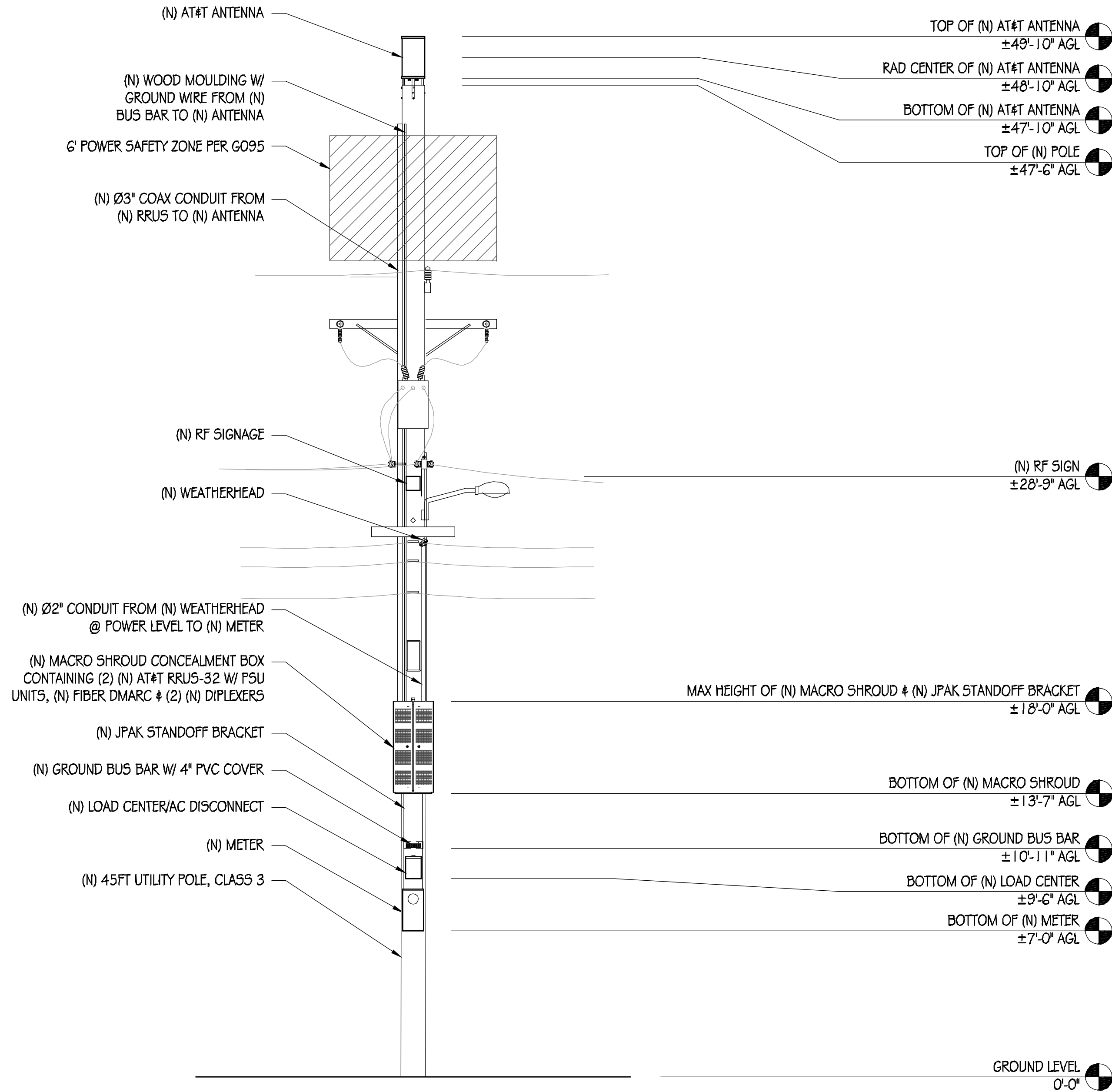
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"



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 SHEET TITLE:

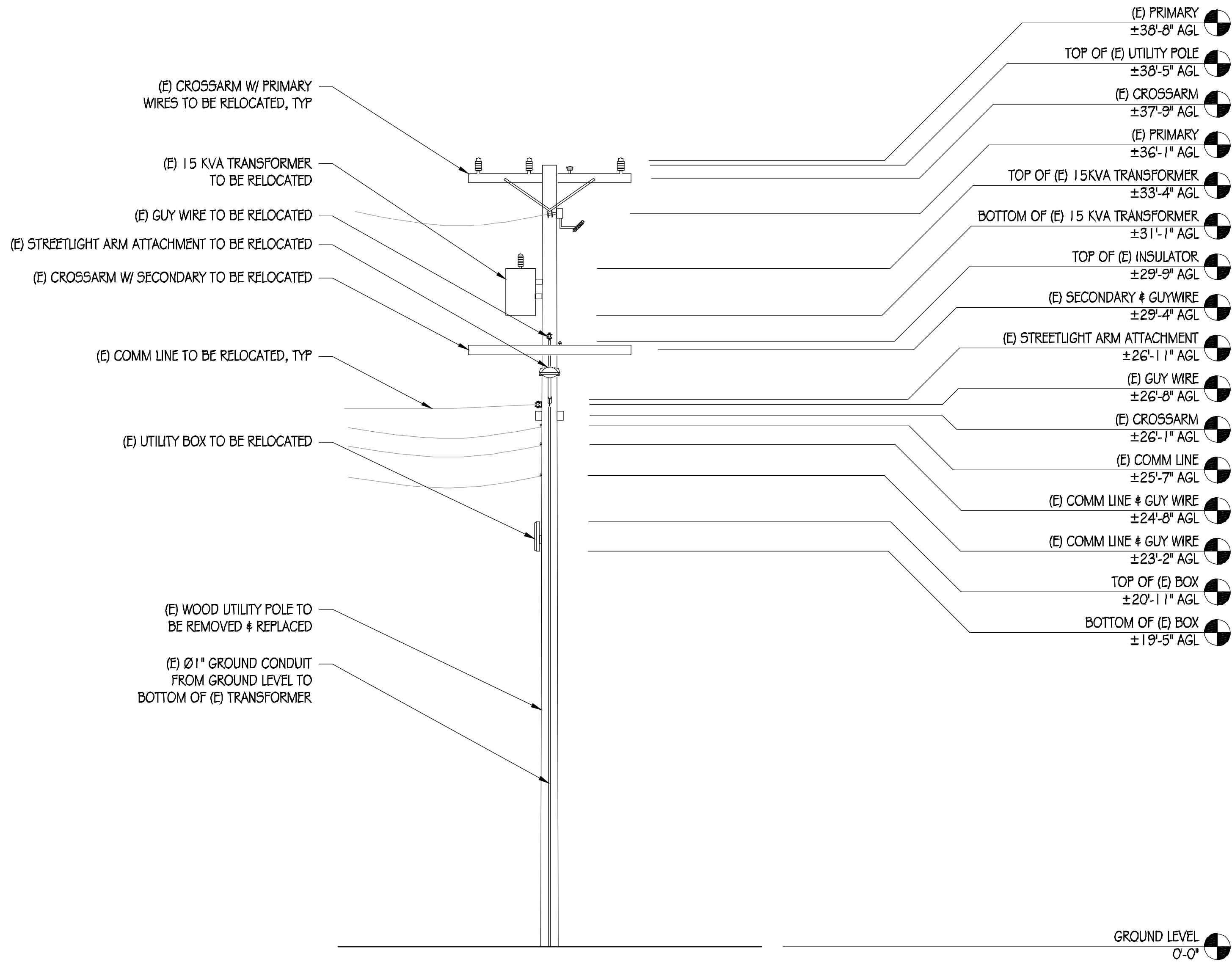
ELEVATIONS

SHEET NUMBER

A-3

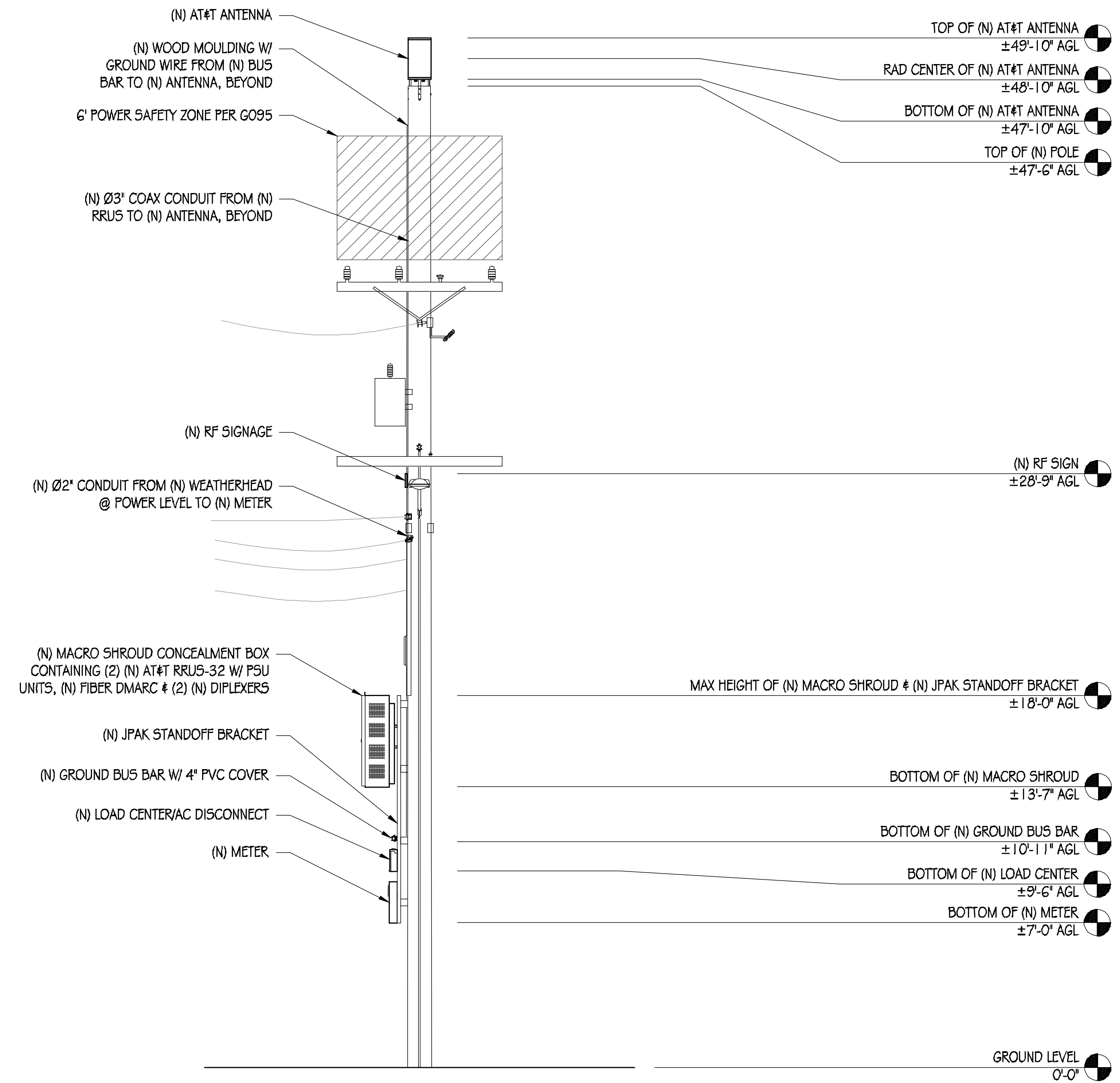


NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



### EXISTING WEST ELEVATION

1/4" = 1'-0"



### NEW WEST ELEVATION

1/4" = 1'-0"



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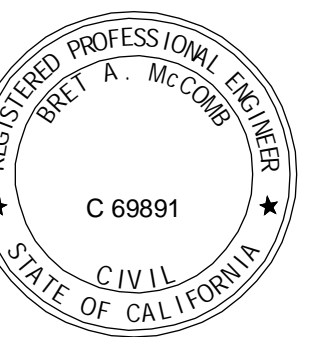


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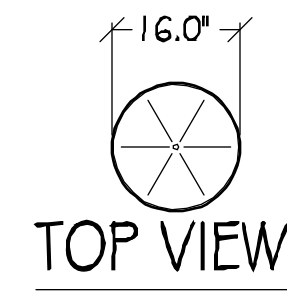
ELEVATIONS

SHEET NUMBER

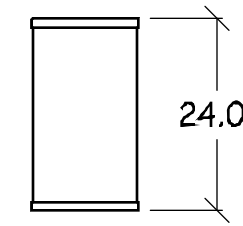
A-4

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



TOP VIEW

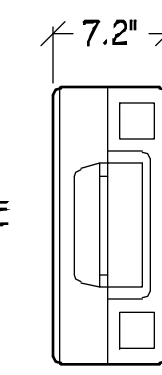


FRONT VIEW

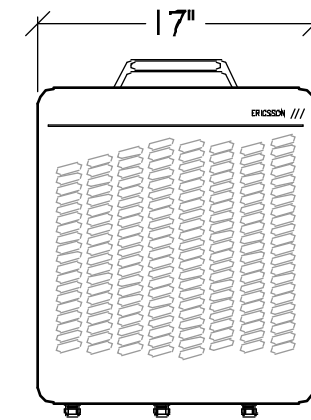
1 ANTENNA  
1/2"=1'

ERICSSON RRUS-11

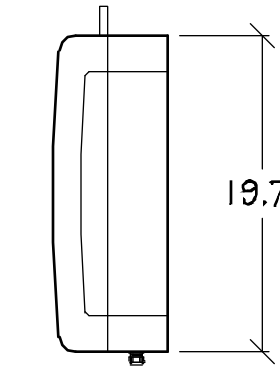
TOTAL WEIGHT: 55 LBS  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

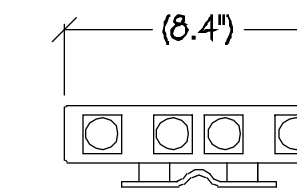


SIDE VIEW

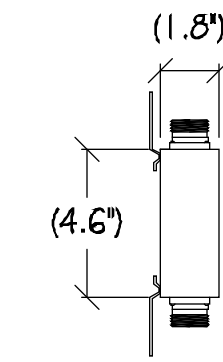
2 RRUS-11 DETAIL  
1"=1'

COMMSCOPE  
 CBC1923T-4310/  
 E11F13P06

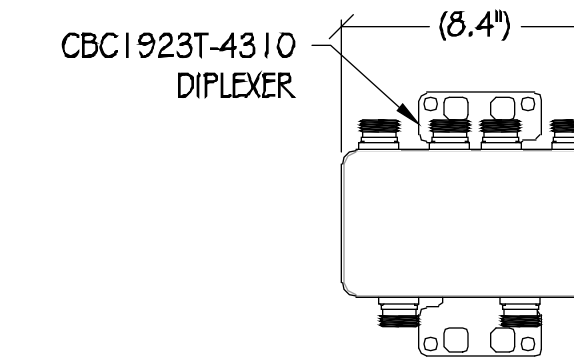
COLOR: GRAY  
 TOTAL WEIGHT: +/- 4.4 LB  
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

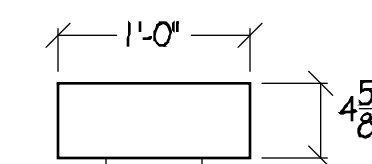


SIDE VIEW



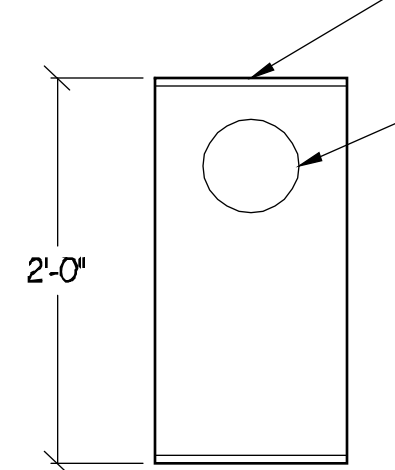
FRONT VIEW

3 DIPLEXER DETAIL  
1"=6"

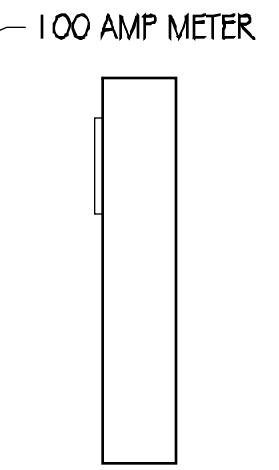


TOP VIEW

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



FRONT VIEW

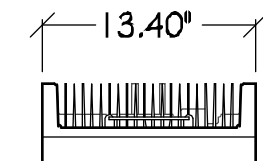


SIDE VIEW

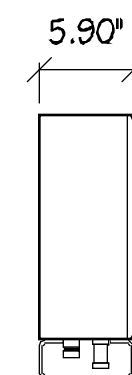
4 METER DETAIL  
1"=1'

ERICSSON RRUS-4415

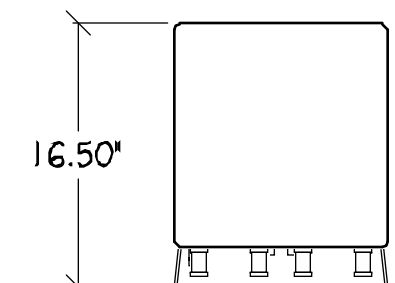
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

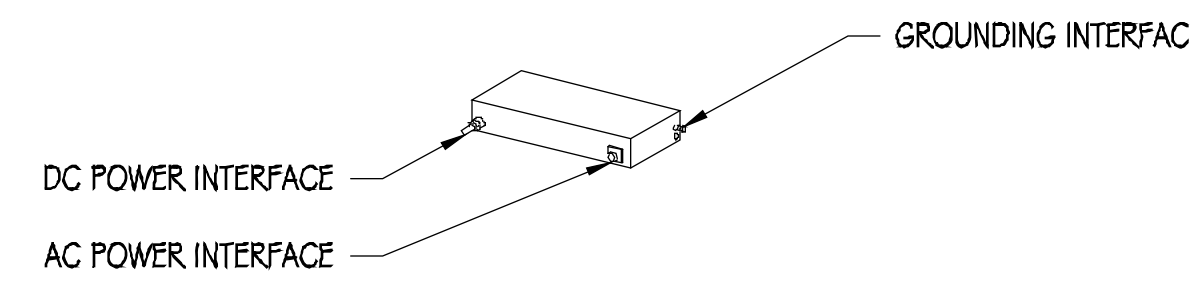


FRONT VIEW

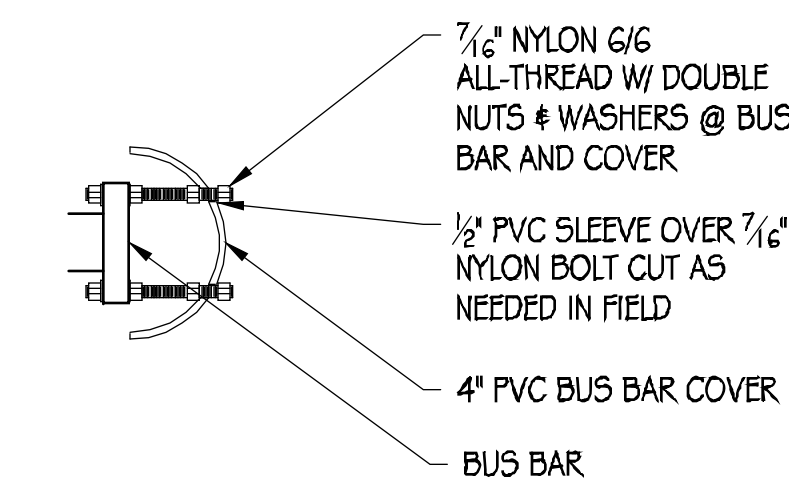
5 RRUS-4415 DETAIL  
1"=1'

ERICSSON PSU AC 08

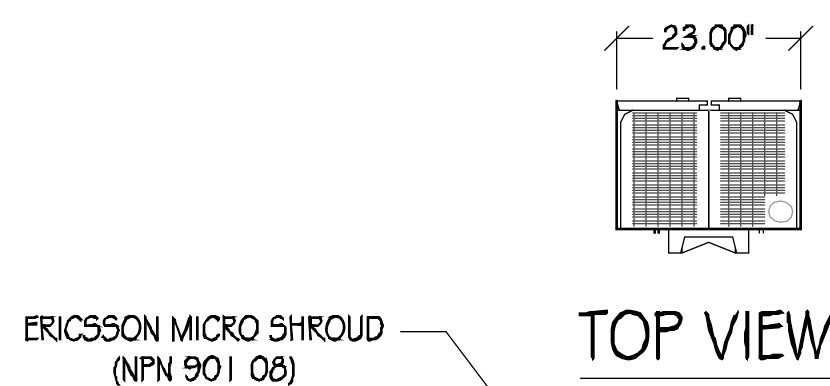
DIMENSIONS: 2.72" X 10.79" X 7.09"  
 WEIGHT: 11.46 LBS



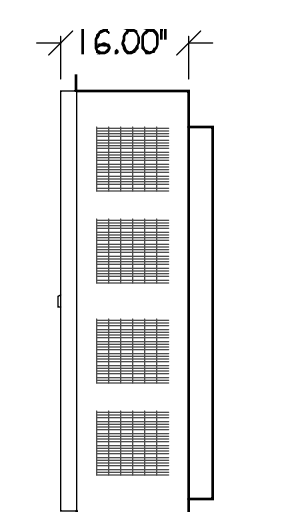
6 AC POWER MODULE  
NTS



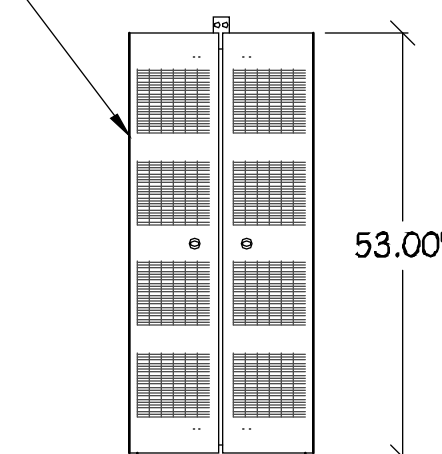
7 BUS BAR COVER  
6"=1'



TOP VIEW

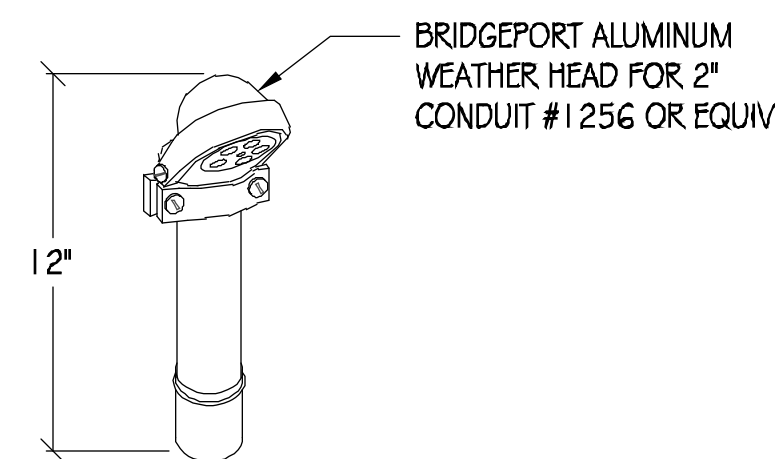


SIDE VIEW



FRONT VIEW

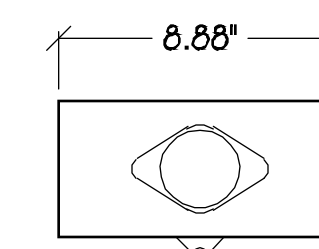
8 MICRO SHROUD CONCEALMENT  
1/2"=1'



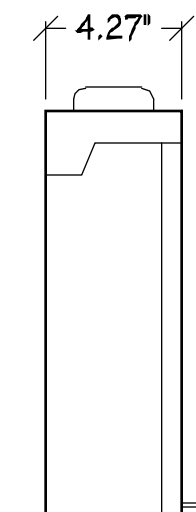
BRIDGEPORT ALUMINUM WEATHER HEAD FOR 2" CONDUIT #1256 OR EQUIV

9 WEATHER HEAD  
NTS

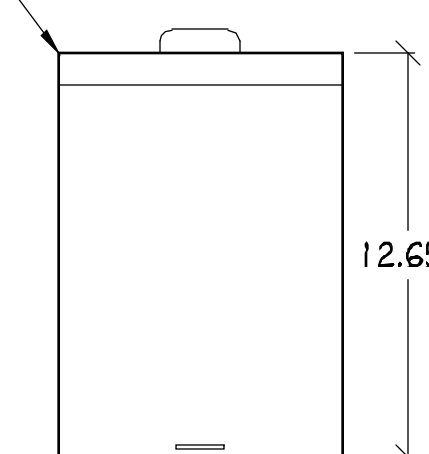
SCHNEIDER ELECTRIC  
 Q0612L100RB



TOP VIEW

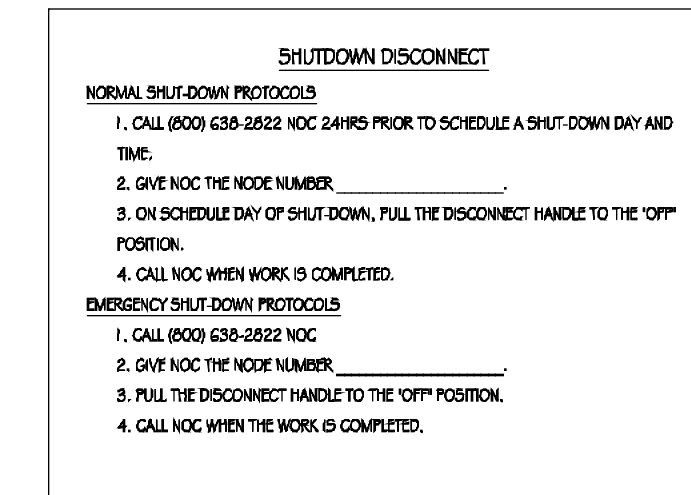
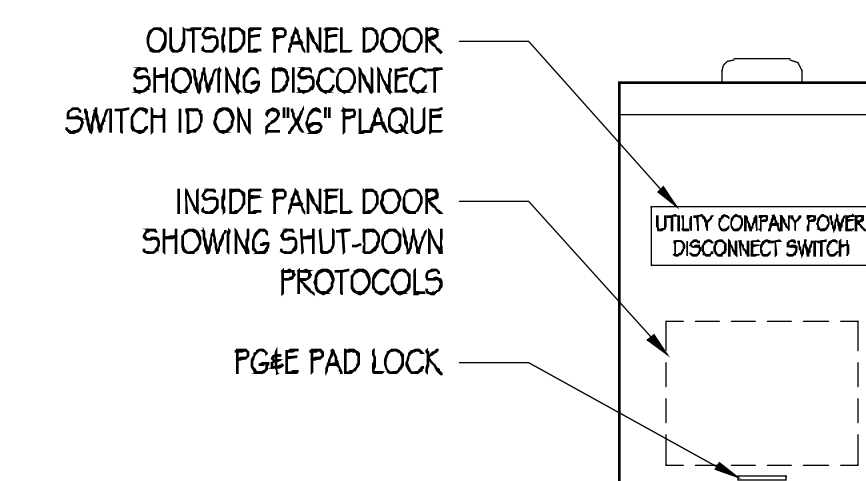


SIDE VIEW



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

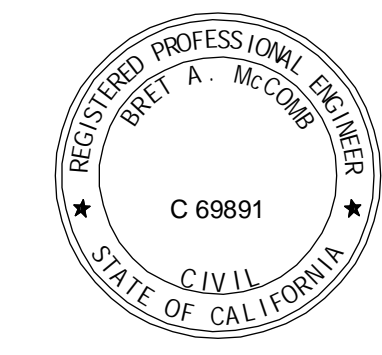


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INFRASTRUCTURE EXPERTS. SMALL CELL LOCATORS.  
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DETAILS

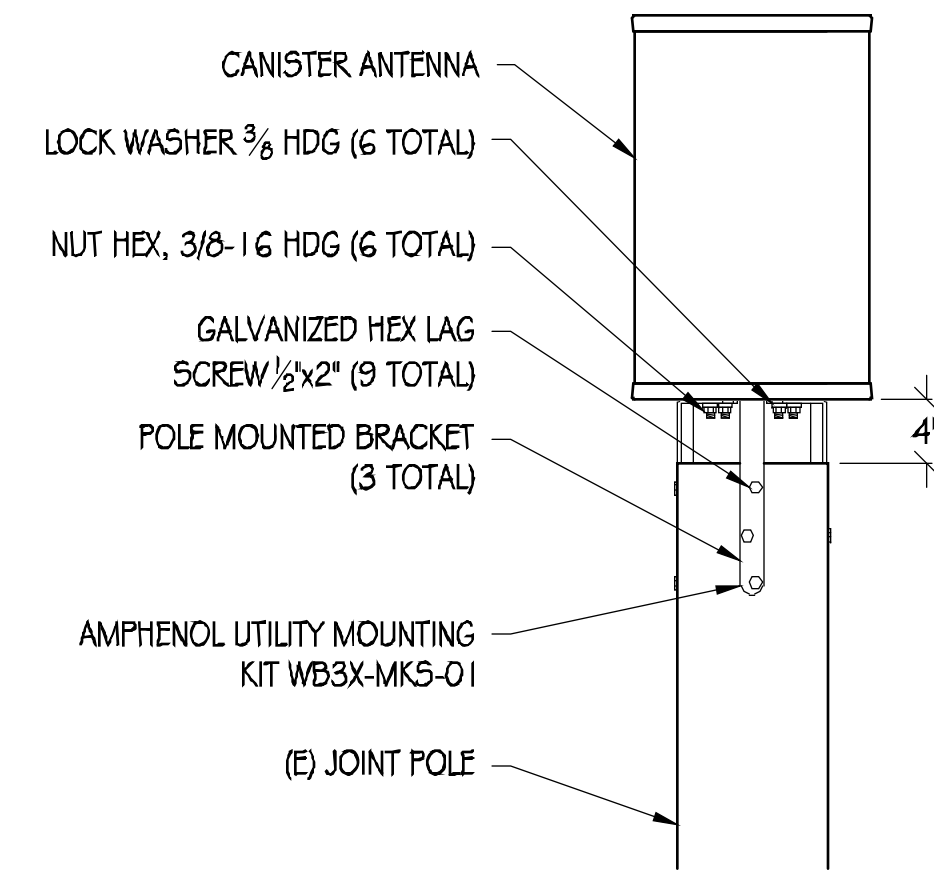
SHEET NUMBER

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<sub>y</sub>=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS5) SHALL BE ASTM A500 GRADE B (F<sub>y</sub>=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F<sub>y</sub>=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'

**NOTICE**

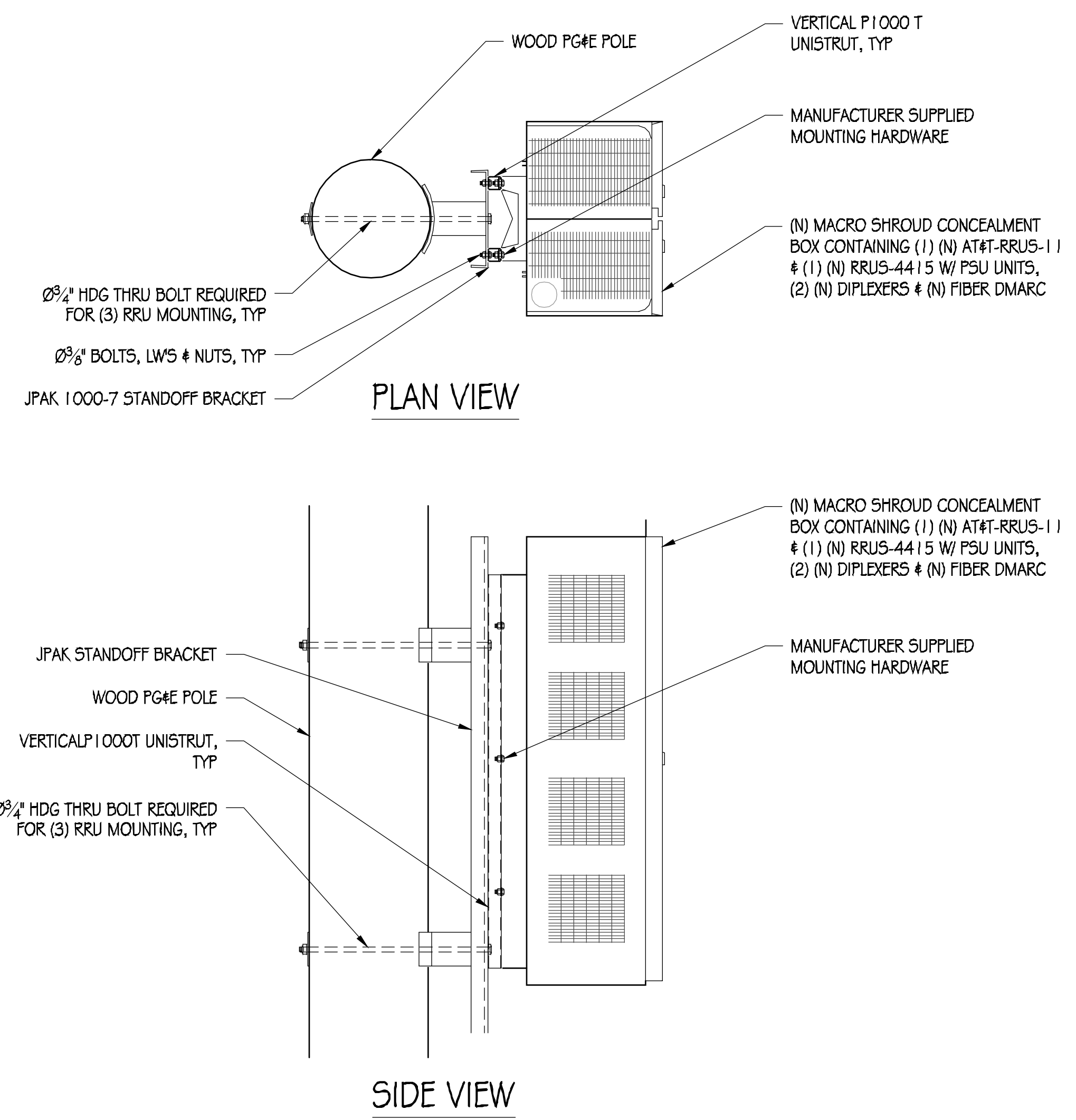
AT&T operates antennas at this structure. Above this point you are entering an area where radio frequency fields may exceed the FCC General Population Exposure Limits. Follow safety guidelines for working in an RF environment. Keep 9' feet away from the fronts of the antennas. Contact AT&T at 800-638-2822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

This is AT&T Site USID: \_\_\_\_\_

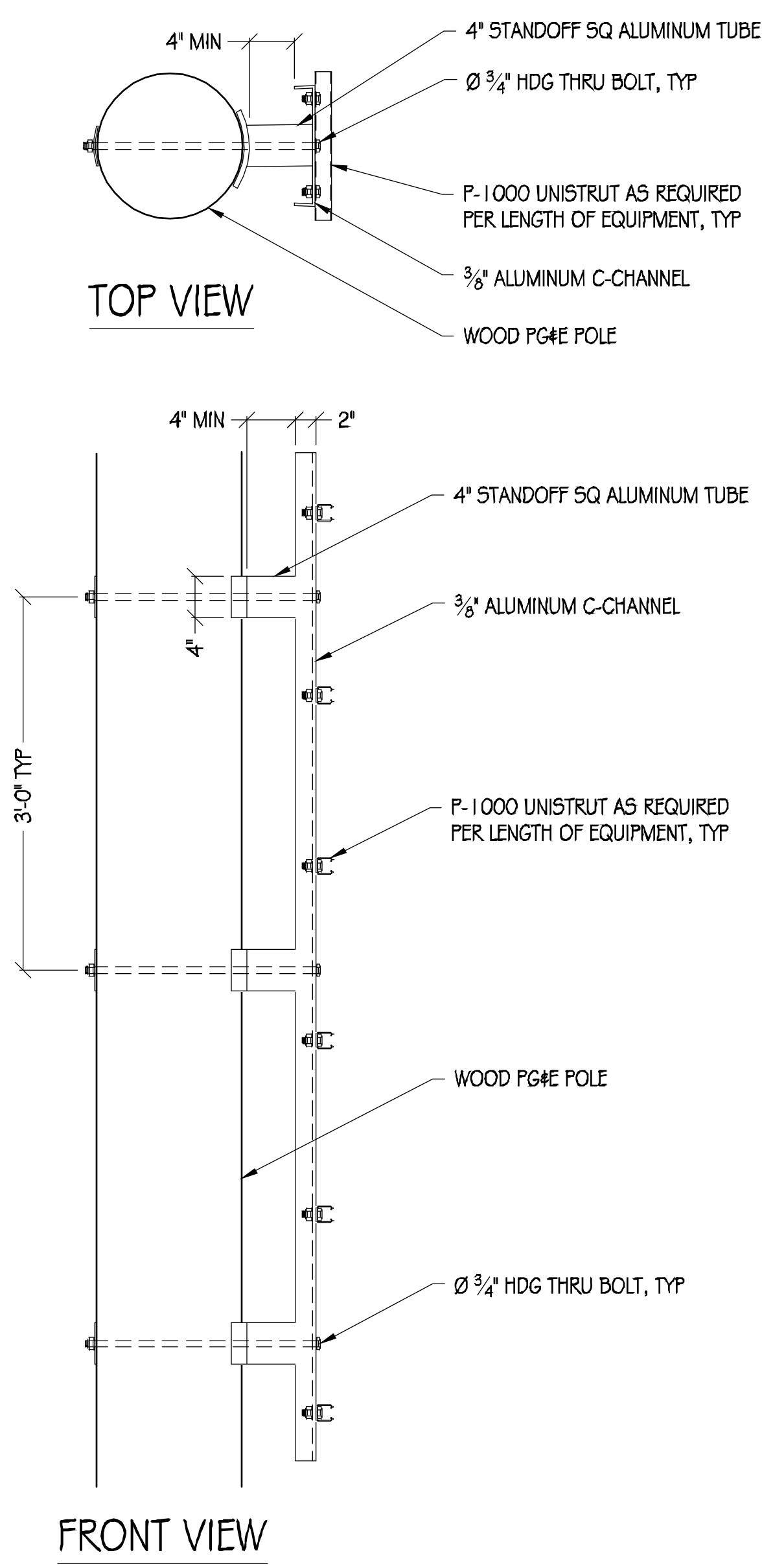
12.25" X 12.25" NOTICE DECAL BLUE DECAL

**2 NOTICE SIGNAGE**  
NTS

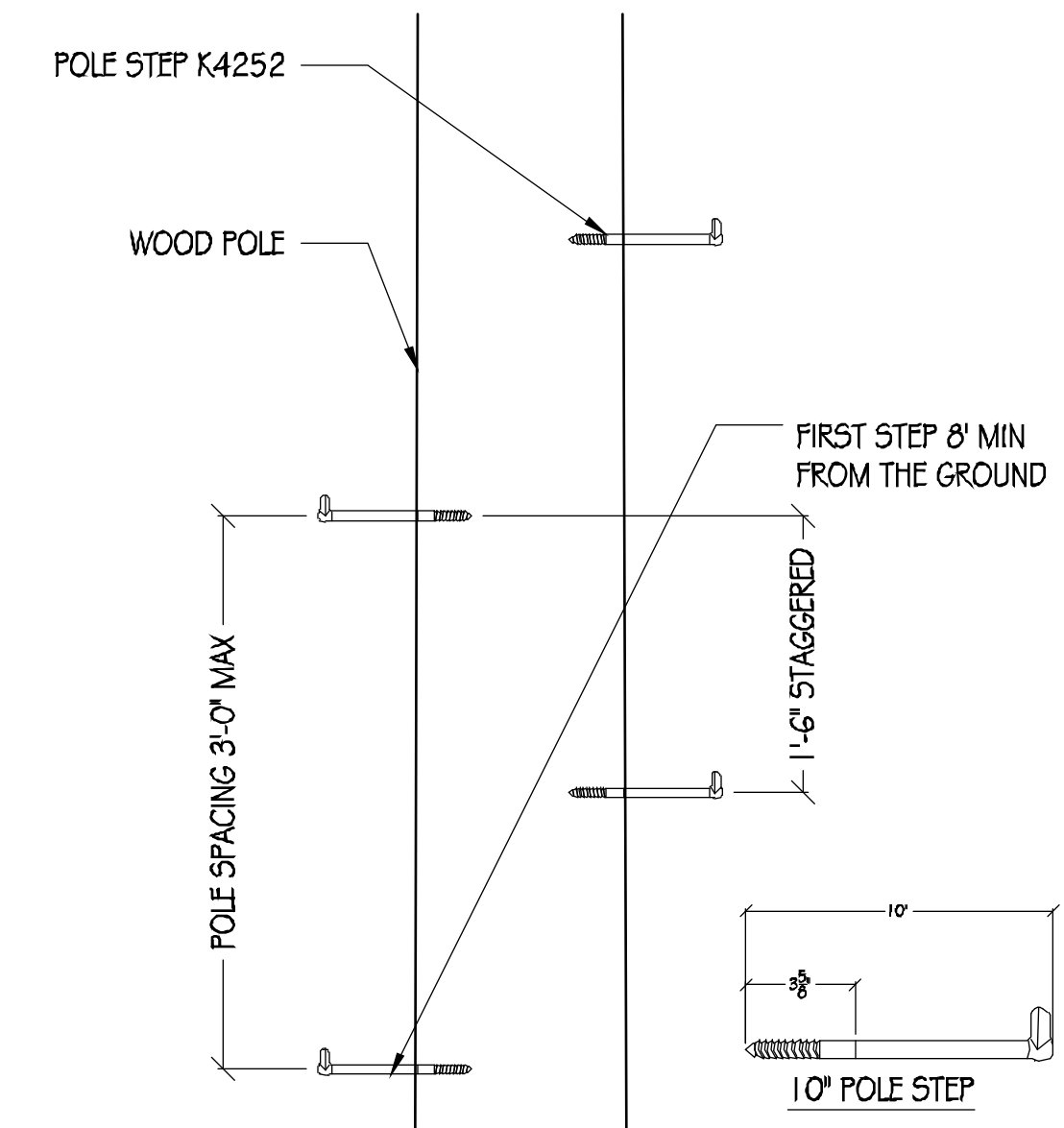
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
  - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA.



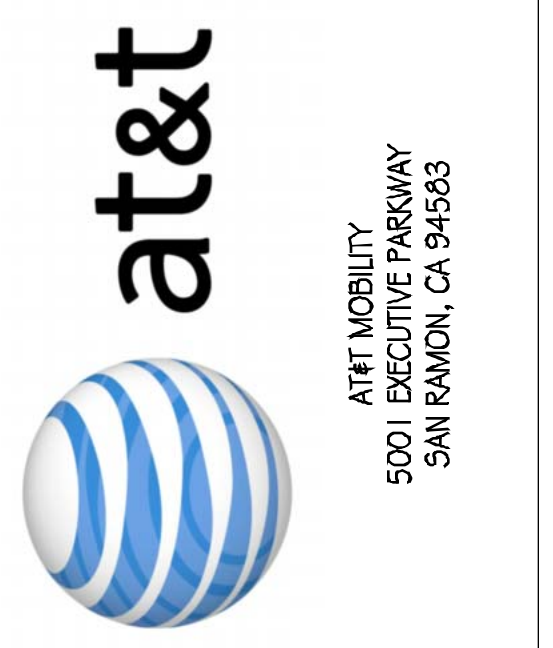
**3 RRU MOUNTING DETAIL**  
1" = 1'



**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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**DETAILS**  
SHEET NUMBER:  
**A-6**

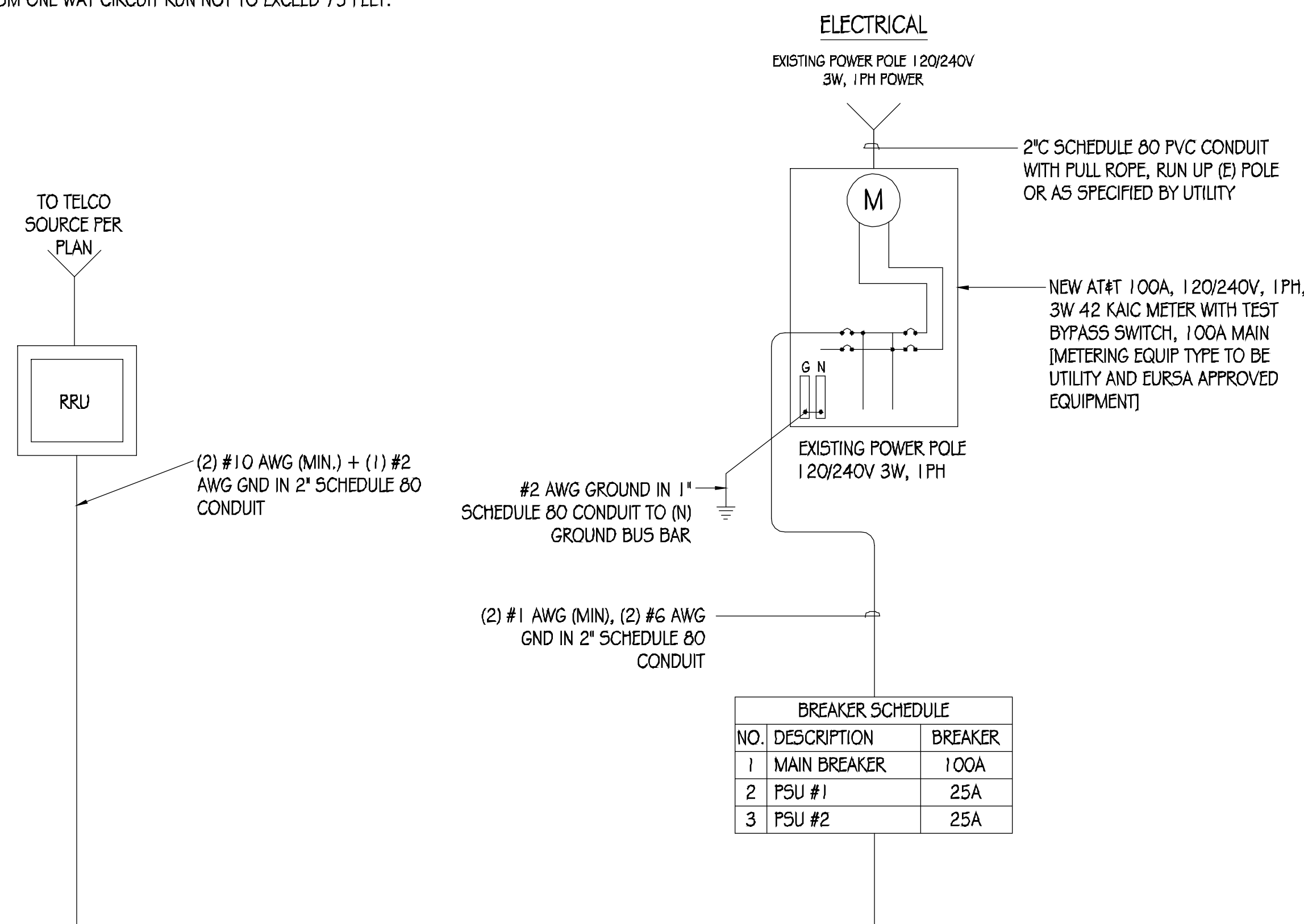


**GENERAL ELECTRICAL NOTES:**

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:**

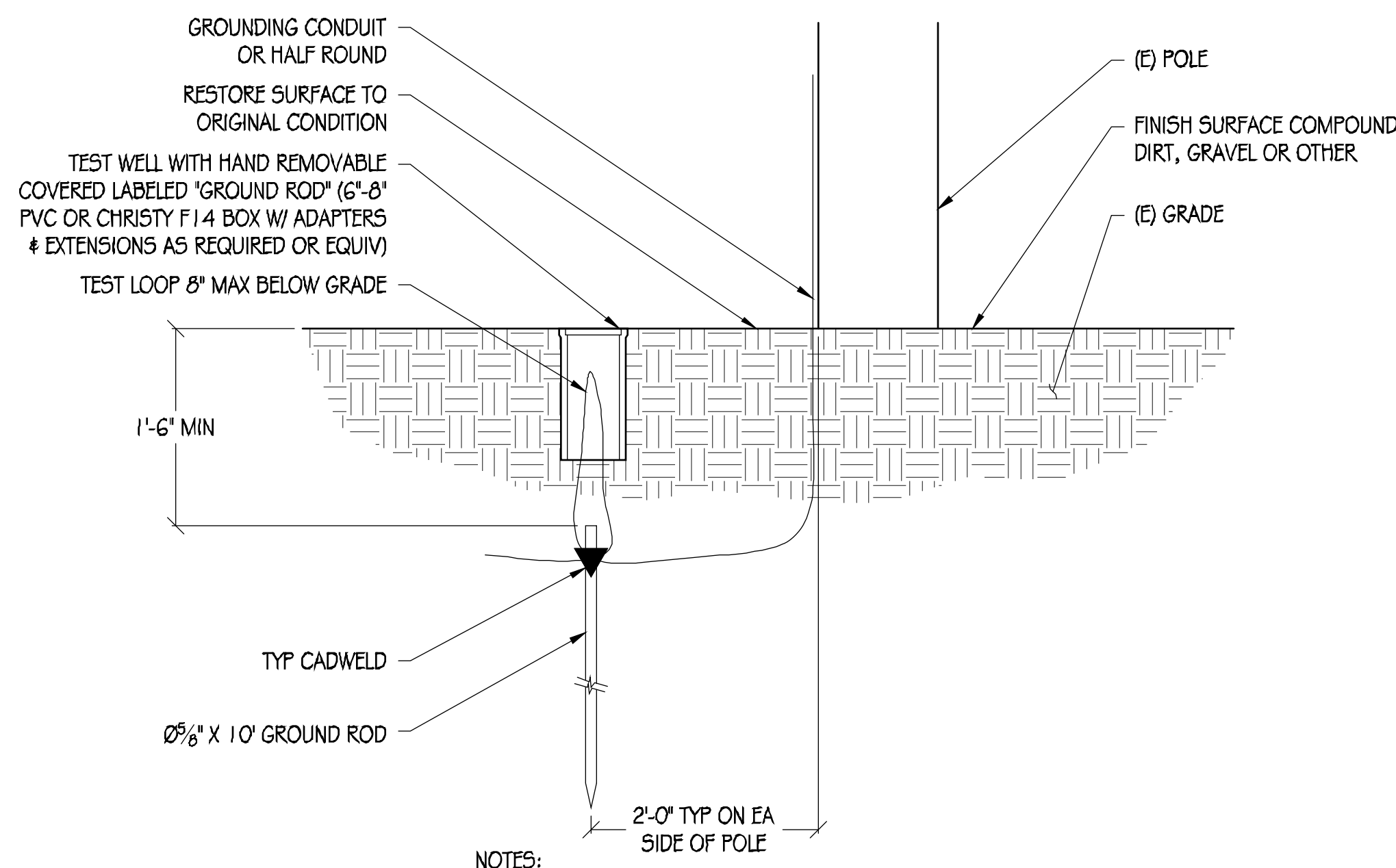
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE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



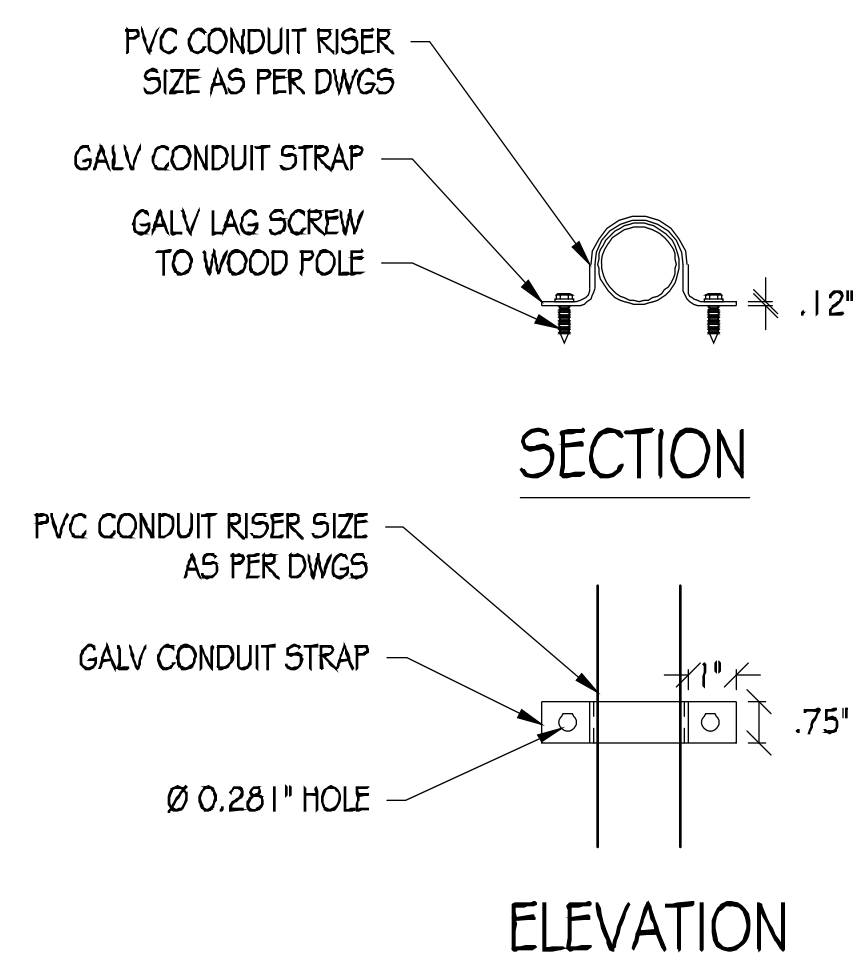
**SINGLE-LINE DIAGRAM**

**LOAD SCHEDULE**

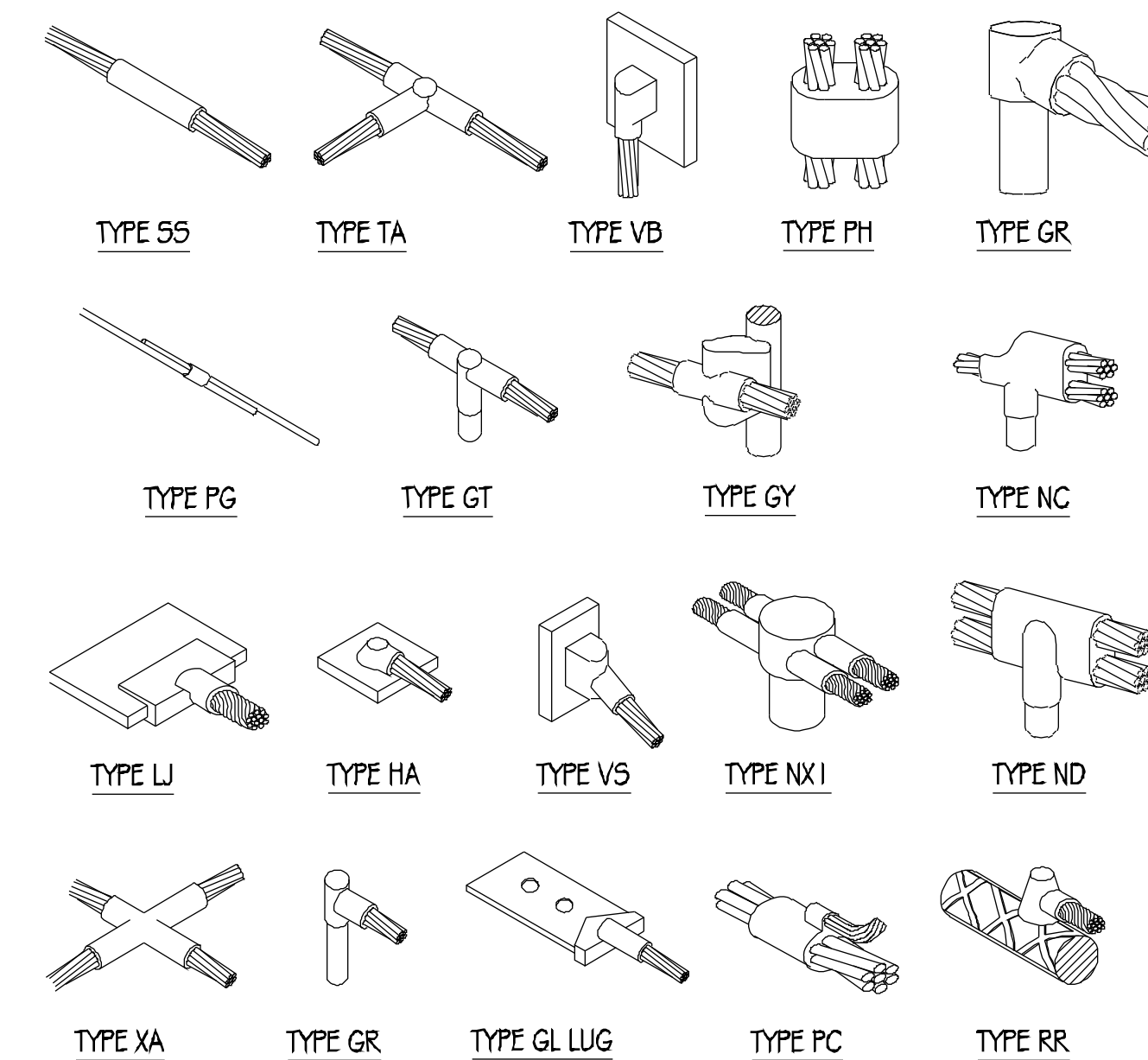
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	HW
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A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



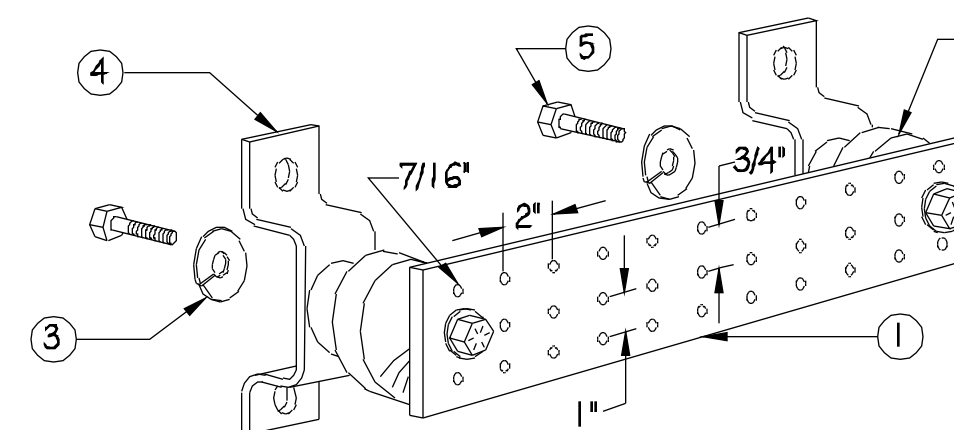
**1 POLE GROUNDING DETAIL**  
NTS



**2 CONDUIT RISER DETAIL**  
NTS



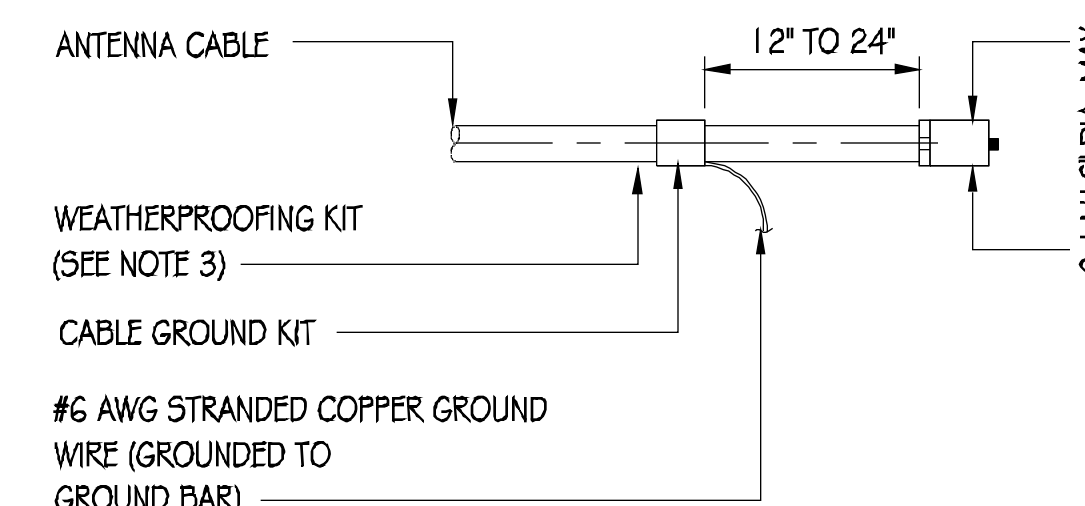
**3 EXOTHERMIC WELD DETAILS**  
NTS



**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.

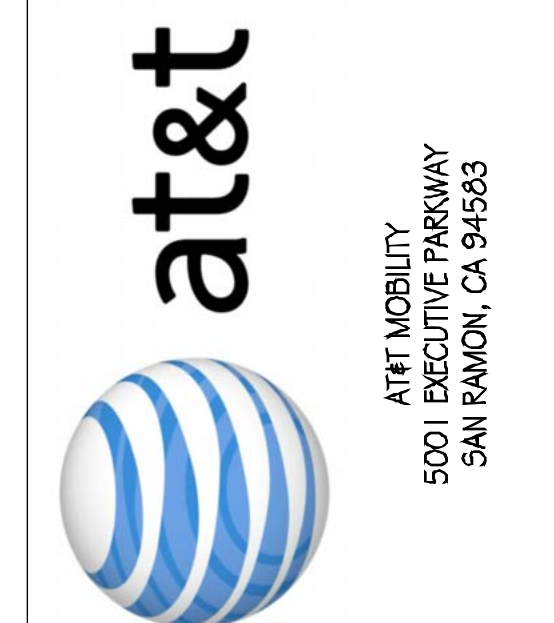
**4 GROUND BAR DETAIL**  
NTS



**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



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

THESE PLANS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE PLANS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THAT FOR WHICH THEY WERE SPECIFICALLY DESIGNED.



CRAN\_RSFR\_LOSAO\_06  
 791 LOS ALTOS AVE  
 LOS ALTOS, CA 94022

**ISSUE STATUS**

△	DATE	DESCRIPTION
	06/13/18	CD 90%
	07/25/19	CD 100%

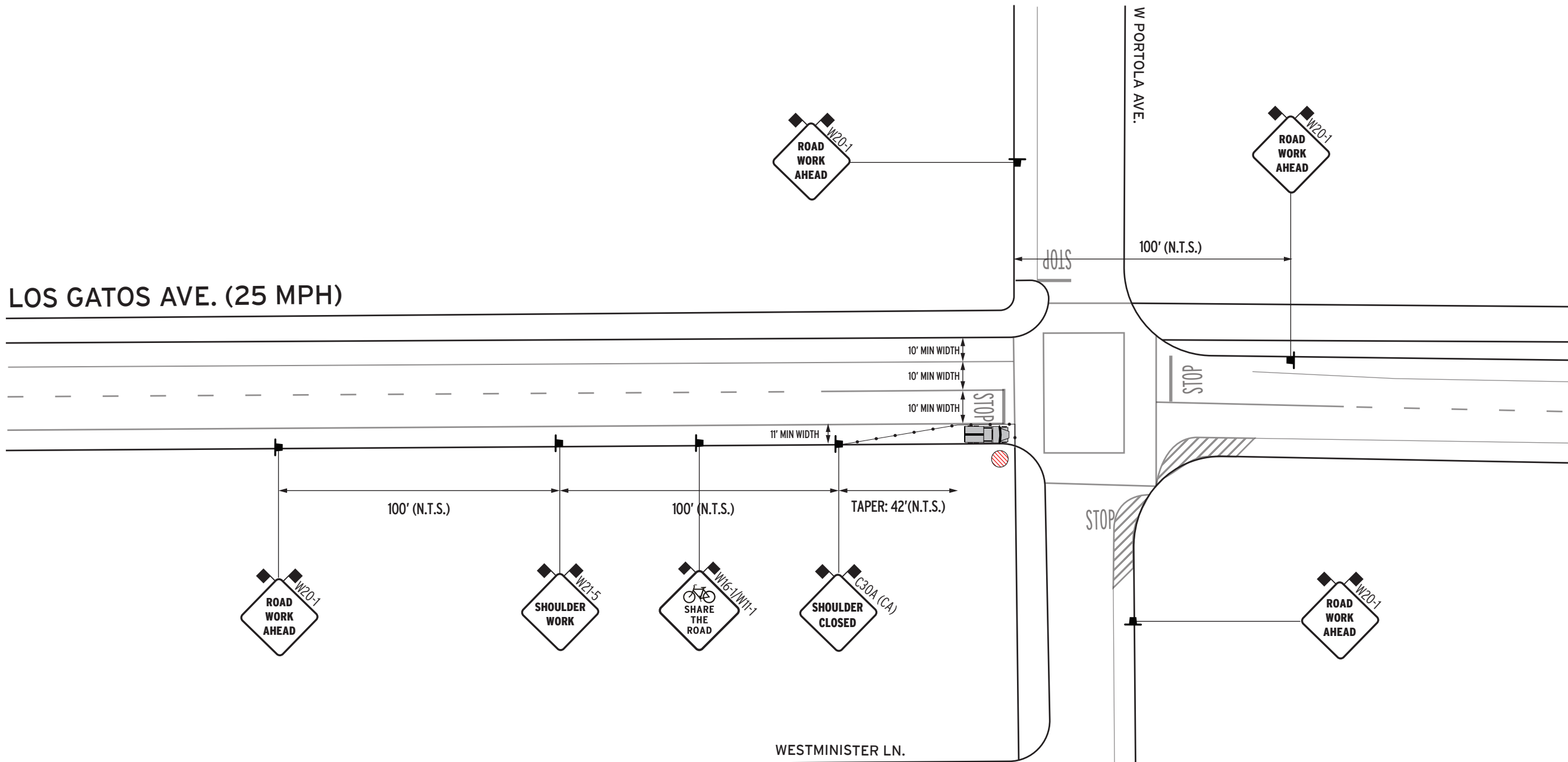
DRAWN BY: T. JONES  
 CHECKED BY: T. DICARLO  
 APPROVED BY: B. McCOMB  
 DATE: 07/25/19  
 SHEET TITLE:

**SINGLE-LINE DIAGRAM & DETAILS**  
 SHEET NUMBER  
**E-1**





# LOS GATOS AVE. (25 MPH)



### LEGEND:

- CHANNELIZING DEVICE
- TRAFFIC CONE W/CLIP ON SIGN
- ▲ SIGN
- WORK ZONE
- DIRECTION OF TRAFFIC
- Y TYPE 1 BARRICADE
- Y TYPE 1 BARRICADE W/SIGN
- I TYPE 3 BARRICADE
- I 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

### NOTES

- Traffic control shall conform with MUTCD and/or Caltrans Standards section 6 dated 2014.
- 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**

DATE REQD: **6-19-19**

DATE COMPLTD: **6-20-19**

PROJECT LOCATION:  
**791 LOS GATOS AVE.  
LOS ALTOS**

JOB#: **LOSA0\_06**

PAGE#: **1/1**

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

## PLAN-1 TEMP TRAFFIC CONTROL PLAN

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

44800 Industrial Drive Fremont, CA 94538  
**WWW.BATSTRAFFICSOLUTIONS.COM**

Drawn By:  
Lindsay Hunt  
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 791 Cos Altos Avenue, 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 791 Los Altos Avenue

37.3967610, -122.1212470

**CRAN\_RSFR\_LOSA0\_06**



1 167-18-049  
DAVE R & DIANE M BEATTY  
826 CARMEL AVE  
LOS ALTOS CA 94022

2 167-18-050  
SANTHOSH M & KALIA SHALINI  
SRINIVASAN  
818 CARMEL AVE  
LOS ALTOS CA 94022

3 167-18-051  
OANH H HANLEY  
808 CARMEL AVE  
LOS ALTOS CA 94022

4 167-18-052  
YU & LIU TIANYUN CHANG  
800 CARMEL AVE  
LOS ALTOS CA 94022

5 167-18-067  
BRYAN & ZHAO LING LI  
829 SANTA RITA AVE  
LOS ALTOS CA 94022

6 167-18-073  
ROBERT M & JACOBS PEGGY  
RICHARDSON  
PO BOX 1075  
MOUNTAIN VIEW CA 94042

6 167-18-073  
OCCUPANT  
830 LOS ALTOS AVE  
LOS ALTOS CA 94022

7 167-18-080  
AGU & WU YU DU  
4681 BLUE RIDGE DR  
SAN JOSE CA 95129

7 167-18-080  
OCCUPANT  
315 W PORTOLA AVE  
LOS ALTOS CA 94022

8 167-18-081  
GENE & HUI WENDY CHOY  
821 LOS ALTOS AVE  
LOS ALTOS CA 94022

9 167-18-082  
BRENT M SAPIRO  
831 LOS ALTOS AVE  
LOS ALTOS CA 94022

10 167-18-085  
MICHAEL C & CATHERINE H LIU  
666 KINGSWOOD WAY  
LOS ALTOS CA 94022

10 167-18-085  
OCCUPANT  
345 W PORTOLA AVE  
LOS ALTOS CA 94022

11 167-18-086  
ZHIHAO & HU XIN ZHENG  
3305 POMERADO WAY  
SAN JOSE CA 95135

11 167-18-086  
OCCUPANT  
359 W PORTOLA AVE  
LOS ALTOS CA 94022

12 167-18-087  
SETH PHILIP LESLIE  
817 SANTA RITA AVE  
LOS ALTOS CA 94022

13 167-21-006  
DROR & TESSEL MARIANNA SNEH  
2778 GASPAR CT  
PALO ALTO CA 94306

13 167-21-006  
OCCUPANT  
366 W PORTOLA AVE  
LOS ALTOS CA 94022

14 167-21-007  
HAKIM & SHAHLA ALY  
340 W PORTOLA AVE  
LOS ALTOS CA 94022

15 167-21-008  
AJIT K & KISHORE ANITA VERMA  
780 LOS ALTOS AVE  
LOS ALTOS CA 94022

16 167-21-009  
WUGANG & WU TIAN ZHAO  
772 LOS ALTOS AVE  
LOS ALTOS CA 94022

17 167-21-019  
IDEC SYSTEMS & CONTROLS CORP  
1175 ELKO DR  
SUNNYVALE CA 94089

17 167-21-019  
OCCUPANT  
777 LOS ALTOS AVE  
LOS ALTOS CA 94022

18 167-21-023  
JEFFREY A & HAY-KAUFMAN MARTHA  
KAUFMAN  
280 W PORTOLA AVE  
LOS ALTOS CA 94022

19 167-21-034  
MARK H & PATRICIA A GOODMAN  
791 LOS ALTOS AVE  
LOS ALTOS CA 94022

20 167-21-046  
JAIN FAMILY TRUST  
771 WESTMINSTER LN  
LOS ALTOS CA 94022

21 167-21-047  
NANDA KISHORE  
781 WESTMINSTER LN  
LOS ALTOS CA 94022

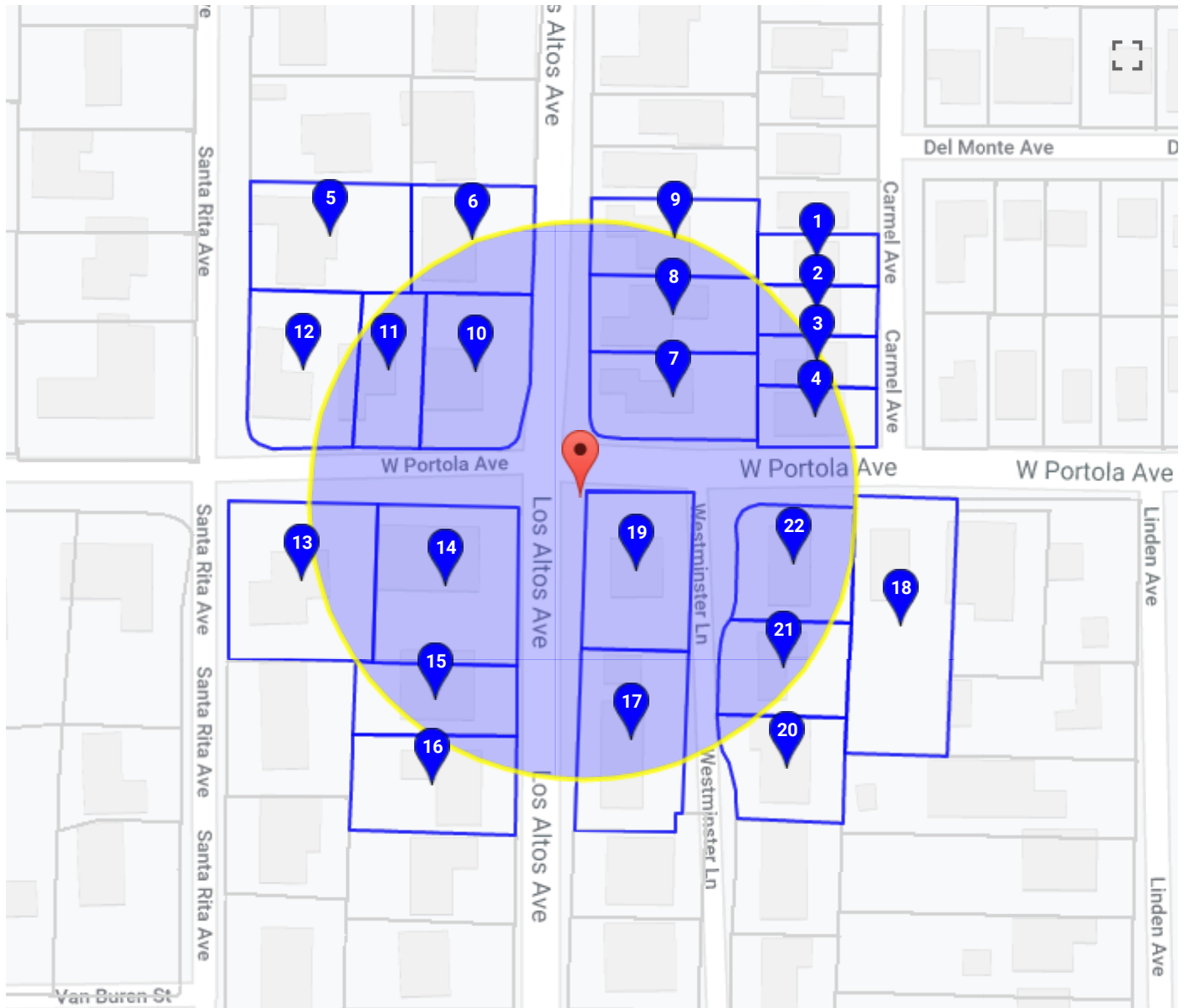
22 167-21-048  
JOHN B & SANDRA A PARKES  
791 WESTMINSTER LN  
LOS ALTOS CA 94022

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!

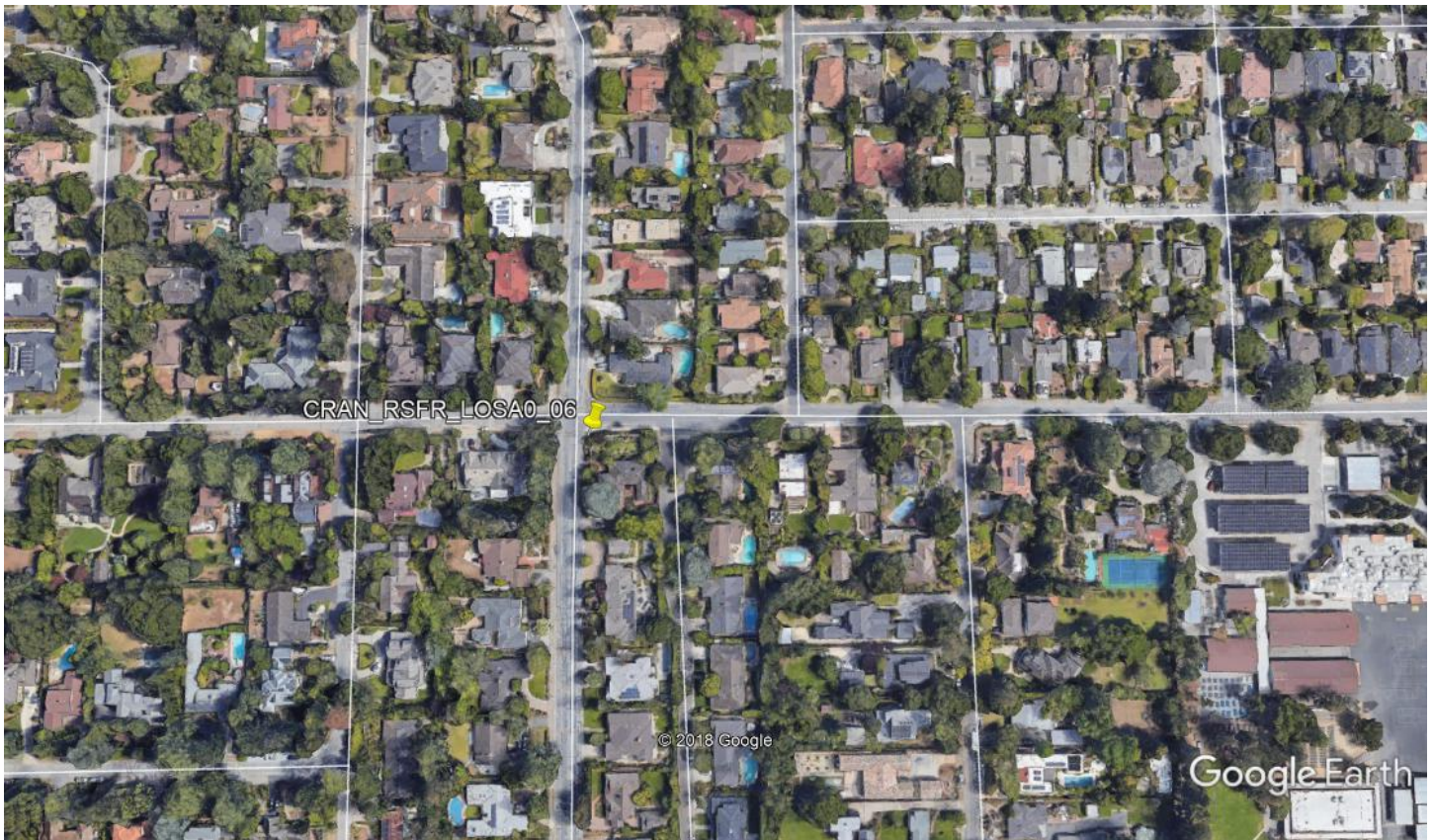
June 10, 2019

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 791 LOS ALTOS 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](mailto: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\_LOSAO\_06

791 LOS ALTOS AVENUE LOS ALTOS CA 94022



VIEW 1



EXISTING



PROPOSED LOOKING WEST FROM PORTOLA AVENUE





AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94553



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

PRECISION DESIGN & Drafting, INC.  
Phone: (530) 825-6546 www.pdcd.com  
11788 Alwood Rd., Suite 20 Auburn, CA 95603

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CRAN\_RSFR\_LOSAO\_06  
ROW ADJCT TO 791 LOS ALTOS AVE  
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	06/13/18	CD 90%
	10/29/18	CD 100%

DRAWN BY: O. REDDISH

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

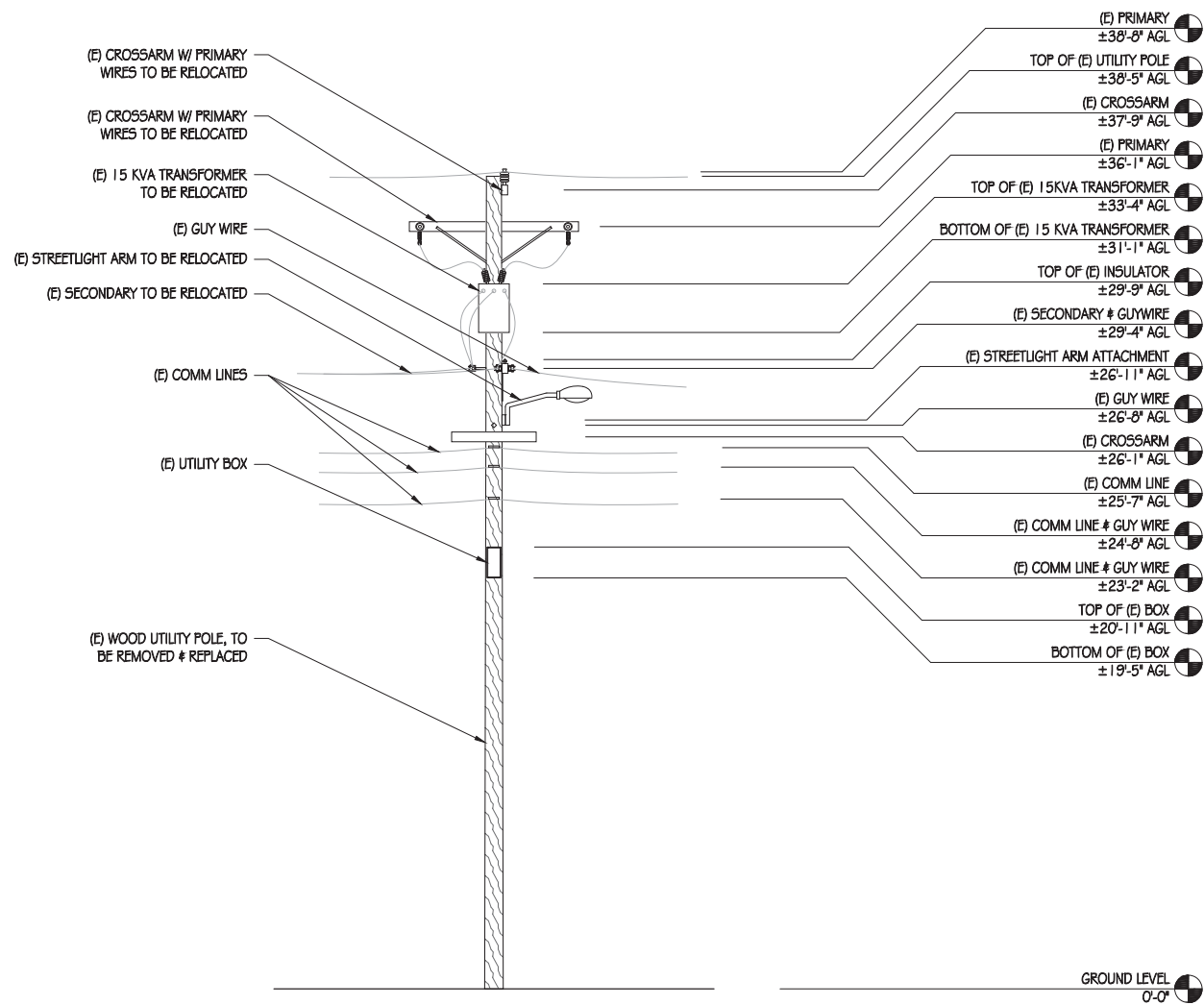
DATE: 10/29/18

SHEET TITLE:

ELEVATIONS

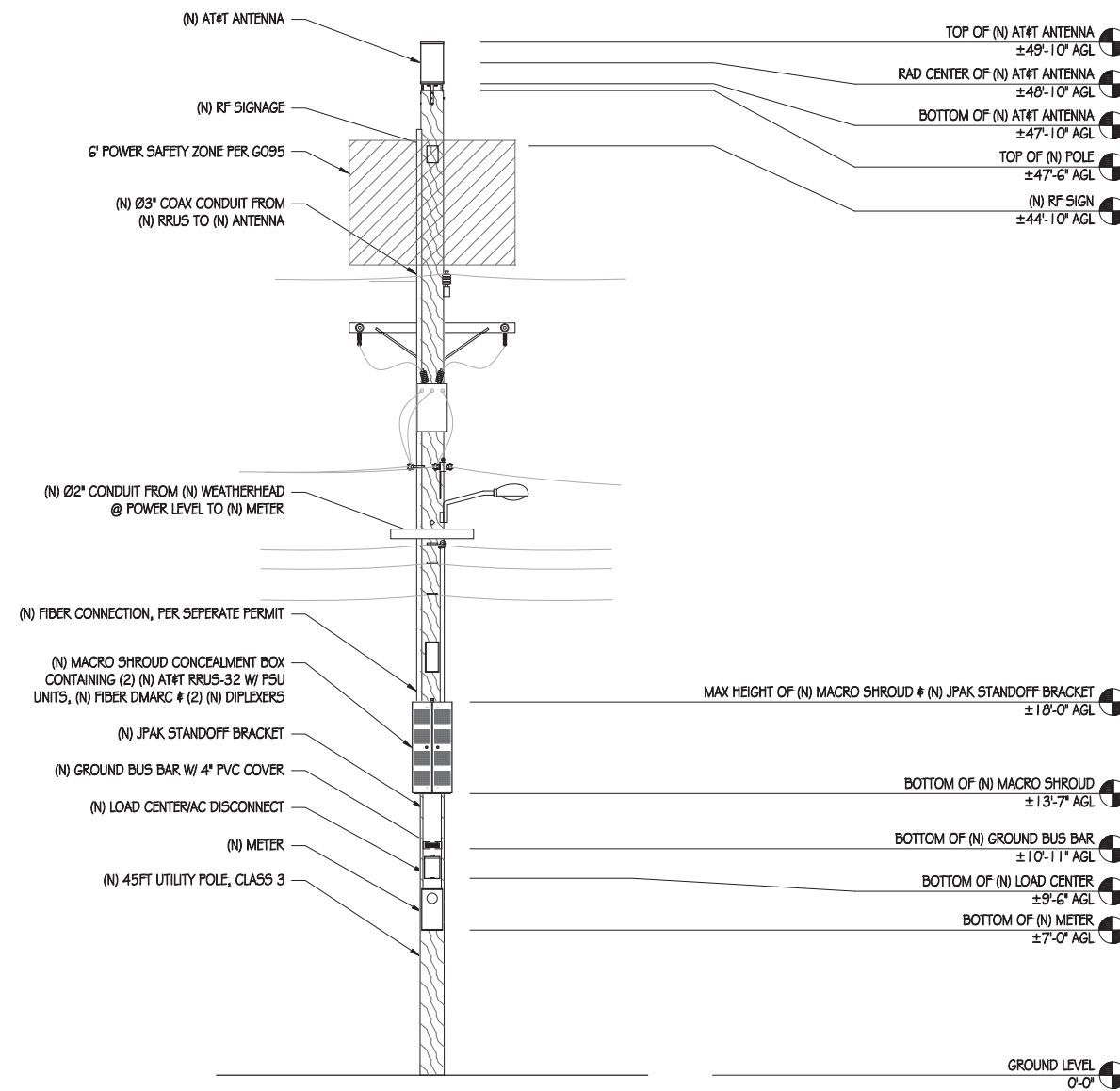
SHEET NUMBER

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: ALL (E) EQUIPMENT TO BE REMOUNTED AT SAME ELEVATION ON (N) POLE

AT&T Mobility Radio Frequency Statement  
Los Altos CA Small Cell Node 6

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 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 Los Altos Avenue near W Portola Avenue. 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 791 Los Altos Avenue is needed to close the high-band LTE service coverage in an area bordered roughly by Pasa Robles Avenue to the north, Laverne Way to the west, Van Buren Street to the south and Mercedes Avenue 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.

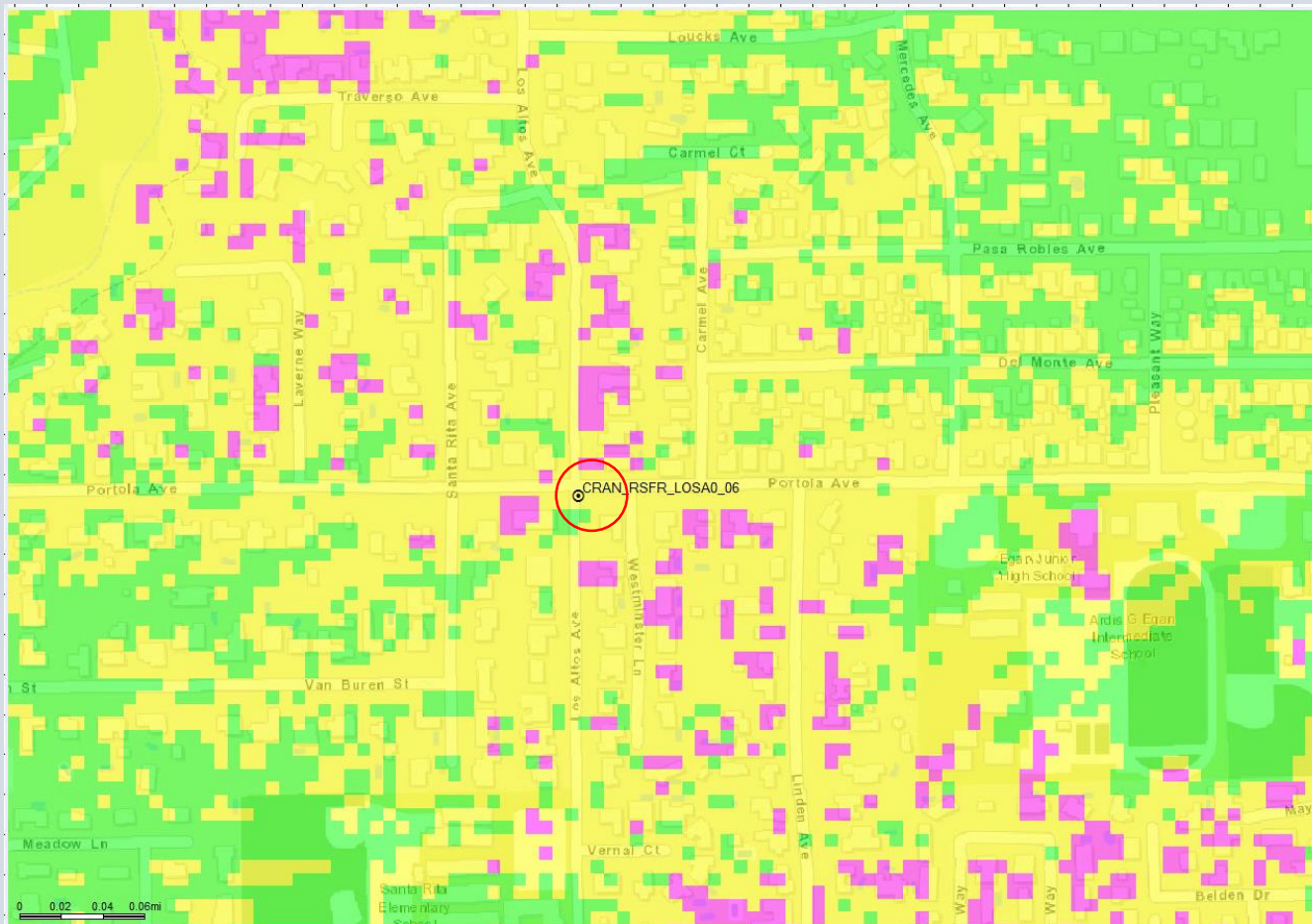
Exhibit 2 to this statement is a map that predicts high-band LTE service coverage based on signal strength in the vicinity if the proposed small cell node is constructed as proposed. As shown by this map, constructing the proposed small cell node here closes this significant service coverage gap.

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.

  
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Network, Planning & Engineering  
RAN Design & RF Engineering  
July 19, 2019



# LTE 1900 Coverage without Small Cell LOSA0\_06





**Legend** ✕

**Coverage\_RSRP (dBm)**

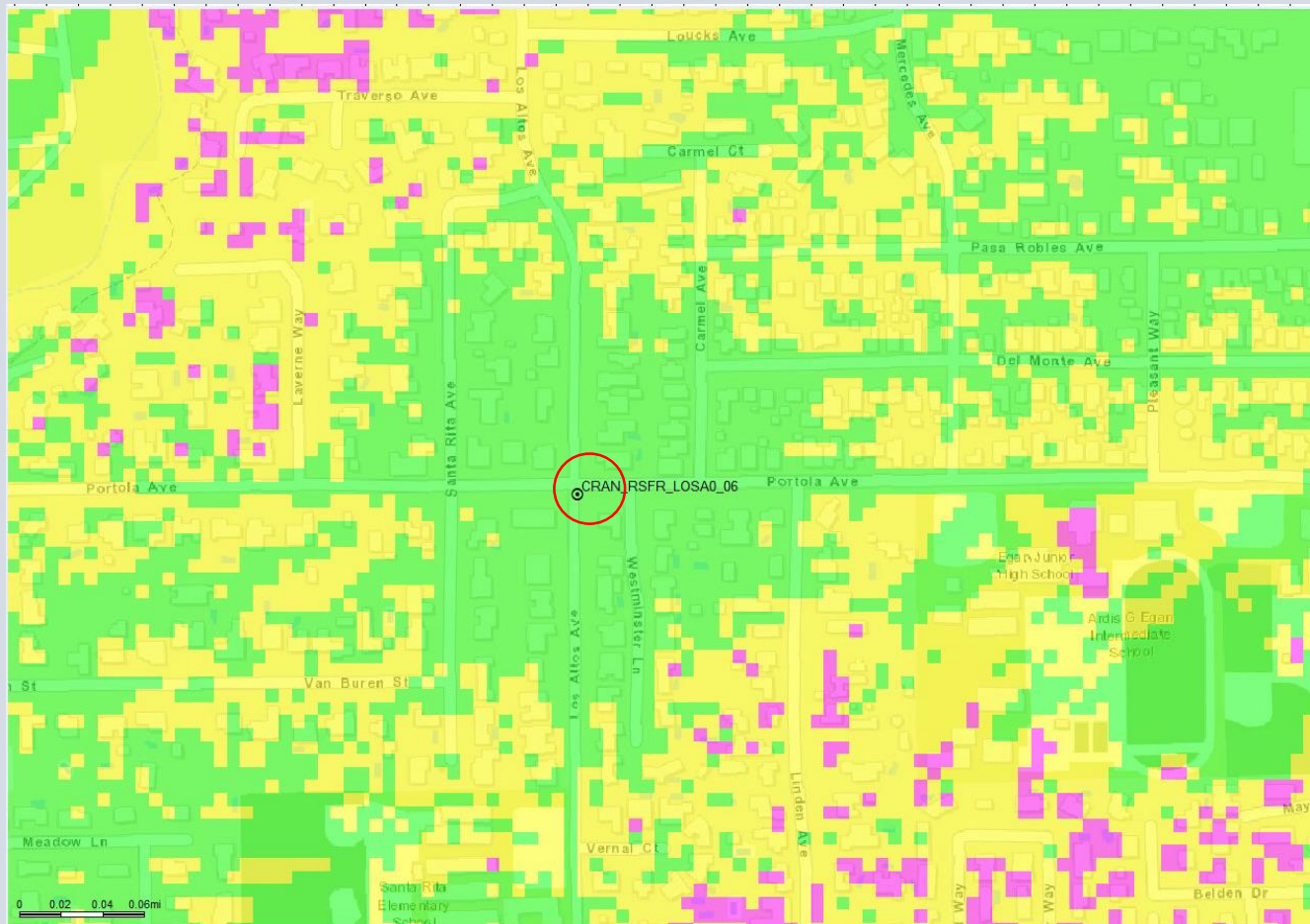
- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

-  Macro site
-  Proposed small cell Nodes



# LTE 1900 Coverage with Small Cell LOSA0\_06





**Legend** ✕

**Coverage\_RSRP (dBm)**

- Indoor Signal
- In-Vehicle Signal
- Outdoor Signal

-  Macro site
-  Proposed small cell Nodes

