



# at&t

SITE ID: CRAN\_RSFR\_LOSAO\_02  
 SITE ADDRESS: ROW ADJCT TO 687 LINDEN AVE  
 LOS ALTOS, CA 94022  
 SITE TYPE: PG&E POLE (PM# 114474289)  
 POLE OWNER: PG&E  
 FA LOCATION: 12898152  
 USID: TBD



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



36 EXECUTIVE PARK, SUITE 210  
 IRVINE, CA 92614

SITE INFORMATION	VICINITY MAP	PROJECT TEAM	PROJECT DESCRIPTION
<p>APPLICANT: AT&amp;T MOBILITY 5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583</p> <p>AGENT: SURESITE 36 EXECUTIVE PARK, SUITE 210 IRVINE, CA 92614</p> <p>AFN: ADJCT TO 167-23-079</p> <p>SITE ADDRESS: ROW ADJCT TO 687 LINDEN AVE LOS ALTOS, CA 94022</p> <p>COUNTY: SANTA CLARA</p> <p>LATITUDE: 37° 23' 37.57" N (37.39376944) NAD 83</p> <p>LONGITUDE: 122° 07' 09.22" W (-122.11916667) NAD 83</p> <p>GROUND ELEVATION: ± 114.7' AMSL</p> <p>ZONING: PUBLIC ROW</p> <p>ZONING JURISDICTION: LOS ALTOS</p> <p>PG&amp;E SAP ID: 100544568</p> <p>STREET CLASSIFICATION: LOCAL</p>		<p>AGENT: SURESITE 36 EXECUTIVE PARK, #210 IRVINE, CA 92614</p> <p>PROJECT MANAGERS: CHRIS JOHNSON ERICSSON 6140 STONERIDGE MALL RD, SUITE 350 PLEASANTON, CA 94588 (408) 796-8443 CHRISTOPHER.JOHNSON@ERICSSON.COM</p> <p>CONSTRUCTION MANAGER: TBD</p> <p>ARCHITECT/ENGINEER OF RECORD: BRET McCOMB PRECISION DESIGN &amp; DRAFTING, INC 11768 ATWOOD ROAD, SUITE #20 AUBURN, CA 95603 (530) 823-6546 BRET@PDND.COM</p> <p>RF MANAGER: TBD</p>	<p>THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&amp;T WIRELESS CONSISTING OF THE INSTALLATION &amp; OPERATION OF ANTENNAS &amp; ASSOCIATED EQUIPMENT OF AN (E) PG&amp;E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.</p> <p>SCOPE OF WORK:</p> <ol style="list-style-type: none"> <li>INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PG&amp;E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET &amp; CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRU 11 &amp; (1) 4415 W/ PSU UNITS, (2) DIPLEXERS, &amp; (1) KMW FX-OM2L1 OH2 CYLINDRICAL ANTENNA.</li> <li>ALL EQUIPMENT TO BE PAINTED TO MEET JURISDICTION APPROVAL.</li> <li>UTILITY LINES BETWEEN (E) POINT OF CONNECTION &amp; POLE TO BE UNDERGROUND AND/OR OVERHEAD.</li> </ol>
<h3>CODE COMPLIANCE</h3>	<h3>DRIVING DIRECTIONS</h3>		<h3>DRAWING INDEX</h3>
<p>CONSTRUCTION WORKS &amp; MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE &amp; LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:</p> <ol style="list-style-type: none"> <li>2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 &amp; 25)</li> <li>2016 CALIFORNIA BUILDING CODE</li> <li>2016 CALIFORNIA ELECTRICAL CODE</li> <li>2016 CALIFORNIA MECHANICAL CODE</li> <li>2016 CALIFORNIA PLUMBING CODE</li> <li>2016 CALIFORNIA FIRE CODE</li> <li>LOCAL BUILDING CODES</li> <li>CITY/COUNTY ORDINANCES</li> <li>ANSI/AIA-TIA-222-G</li> </ol> <p><b>HANDICAP REQUIREMENTS</b></p> <p>THIS FACILITY IS UNMANNED &amp; NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS &amp; REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1</p>	<p>DIRECTIONS FROM AT&amp;T WIRELESS WALNUT CREEK OFFICE</p> <p>FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583        TO: 687 LINDEN AVE, LOS ALTOS, CA 94022</p> <ol style="list-style-type: none"> <li>HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT</li> <li>TURN RIGHT ONTO SUNSET DR 0.1 MI</li> <li>USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI</li> <li>USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI</li> <li>MERGE ONTO I-680 S 3.9 MI</li> <li>CONTINUE STRAIGHT TO STAY ON I-680 S 17.5 MI</li> <li>TAKE EXIT 8 TO MERGE ONTO CA-237 W/ CALAVERAS BLVD TOWARD CENTRAL MILPITAS 0.5 MI</li> <li>MERGE ONTO CA-237 W/ CALAVERAS BLVD 1.8 MI</li> <li>USE THE RIGHT 2 LANES TO TURN SLIGHTLY RIGHT 0.2 MI</li> <li>TAKE THE RAMP ONTO CA-237 W 0.3 MI</li> <li>MERGE ONTO CA-237 W 8.2 MI</li> <li>KEEP LEFT TO CONTINUE ON CA-237 W/ SOUTHBAY FWY 0.5 MI</li> <li>TURN RIGHT ONTO EL CAMINO REAL 2.3 MI</li> <li>TURN LEFT ONTO JORDAN AVE 0.5 MI</li> <li>TURN LEFT ONTO N SAN ANTONIO RD 0.2 MI</li> <li>TURN RIGHT ONTO PINE LN 0.3 MI</li> <li>TURN RIGHT ONTO LINDEN AVE 0.1 MI</li> </ol> <p>END AT: 687 LINDEN AVE, LOS ALTOS, CA 94022</p> <p>ESTIMATED TIME: 1 HR 17 MINS ESTIMATED DISTANCE: 42 MI</p>	<p>At all services &amp; grounding trenches, provide "WARNING" tape at 12" below grade.</p> <p><b>CALL BEFORE YOU DIG</b>    811/800-227-2600    NATIONWIDE UNDERGROUND SERVICE ALERT</p>	<p><b>ADMINISTRATIVE REQUIREMENTS</b></p> <p>CONTRACTOR SHALL VERIFY ALL PLANS &amp; (E) DIMENSIONS &amp; CONDITIONS ON THE JOB SITE &amp; 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.</p>
			<h3>PROJECT DESCRIPTION</h3>

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 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, ARCHITECT, OR OTHER PROFESSIONAL PARTY WITH WHICH CONSULTING ENGINEER, ARCHITECT, OR OTHER PROFESSIONAL PARTY IS ASSOCIATED. THESE PLANS AND SPECIFICATIONS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, ARCHITECT, OR OTHER PROFESSIONAL PARTY WITH WHICH CONSULTING ENGINEER, ARCHITECT, OR OTHER PROFESSIONAL PARTY IS ASSOCIATED.



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ROW ADJCT TO 687 LINDEN AVE  
 LOS ALTOS, CA 94022

ISSUE STATUS

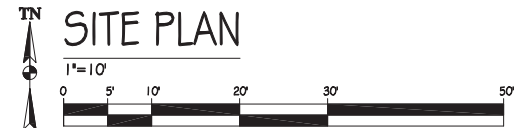
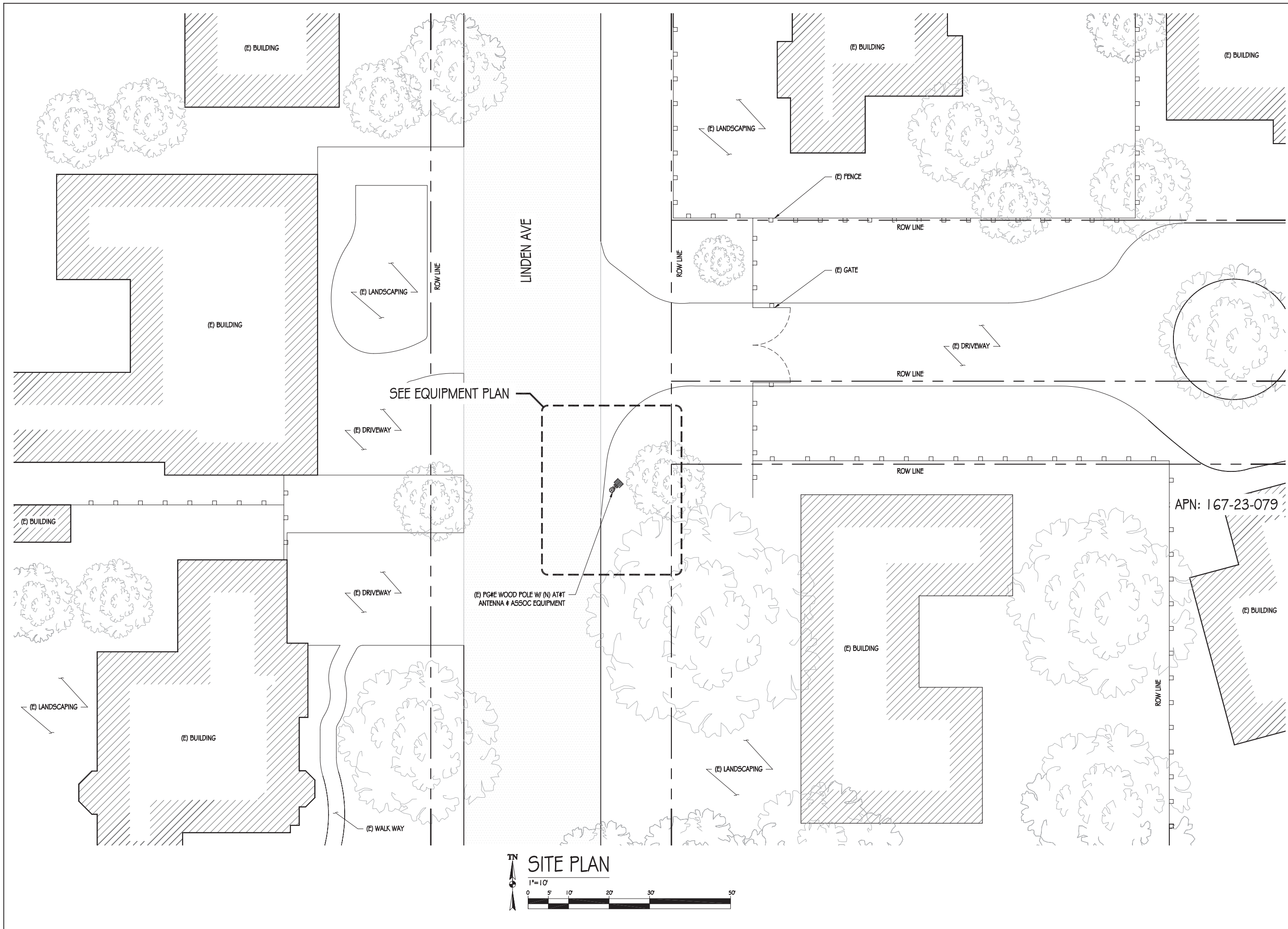
Δ	DATE	DESCRIPTION
	06/20/18	CD 90%
	10/29/18	CD 100%

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

SHEET TITLE:  
**TITLE SHEET**

SHEET NUMBER:  
**T-1**





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



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

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SHEET TITLE:

SITE PLAN

SHEET NUMBER

A-1

LINDEN AVE

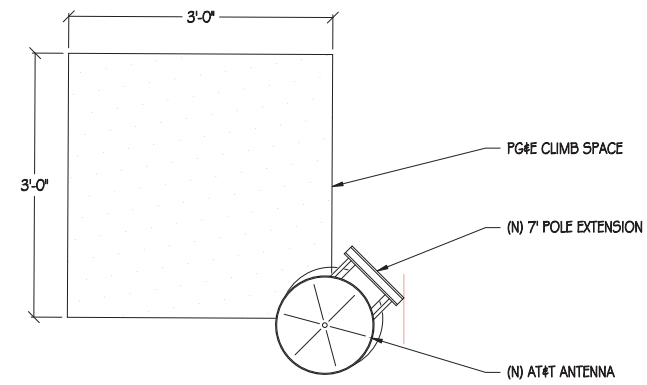
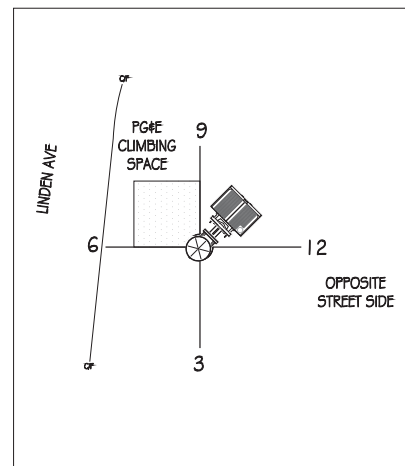
(E) PG&E WOOD POLE W/ (N) AT&T ANTENNA # ASSOC EQUIPMENT

(E) LANDSCAPING

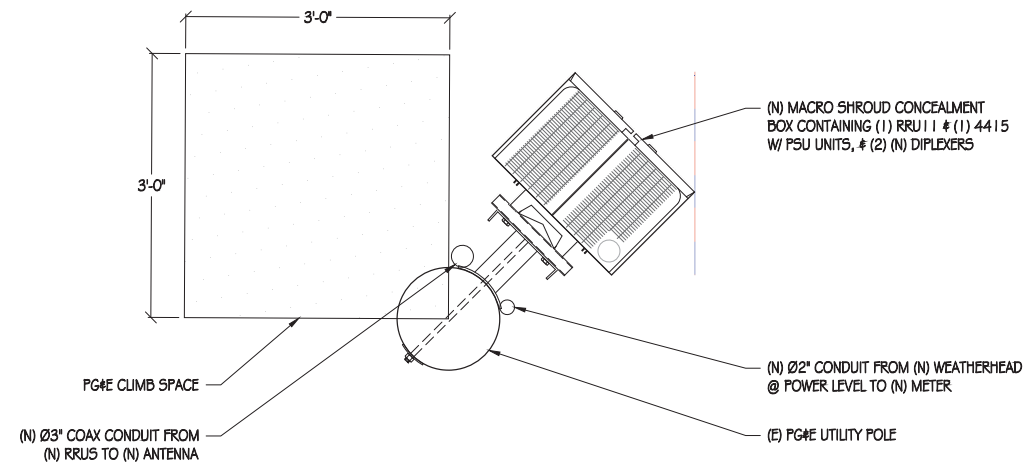
SEE ANTENNA PLANS

ROW LINE

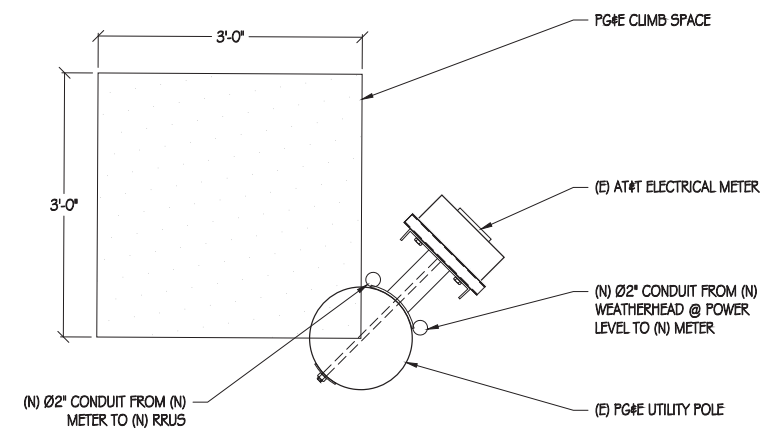
**EQUIPMENT PLAN**  
1/2" = 1'



**ANTENNA PLAN**  
1" = 1'



**RRH PLAN**  
1" = 1'



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



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CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

DATE: 10/29/18

SHEET TITLE:

EQUIPMENT PLAN #  
ANTENNA PLANS

SHEET NUMBER

**A-2**



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



36 EXECUTIVE PARK, SUITE 210  
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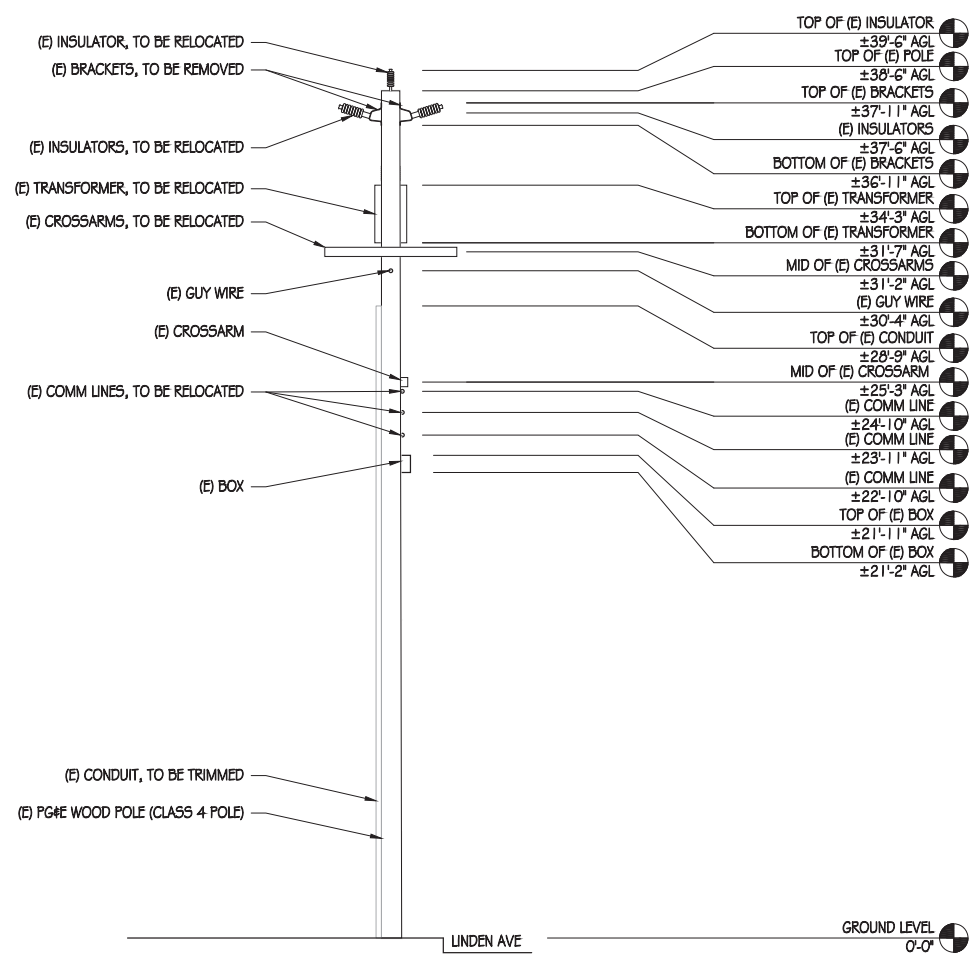
DATE: 10/29/18

SHEET TITLE:

ELEVATIONS

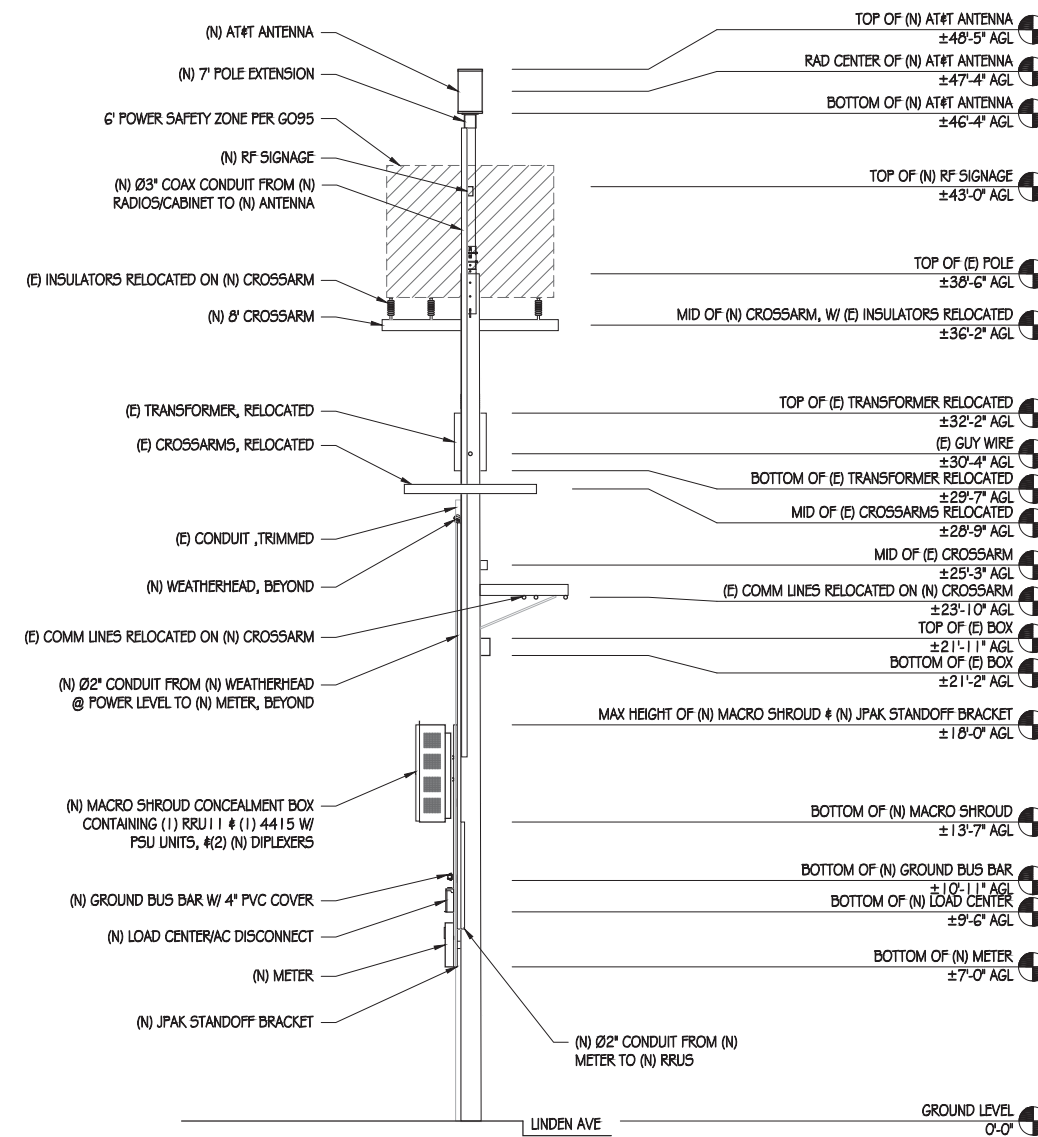
SHEET NUMBER

A-3



EXISTING NORTH ELEVATION

1/4" = 1'-0"



NEW NORTH ELEVATION

1/4" = 1'-0"

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



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Infrastructure experts. Smaller cell leaders.

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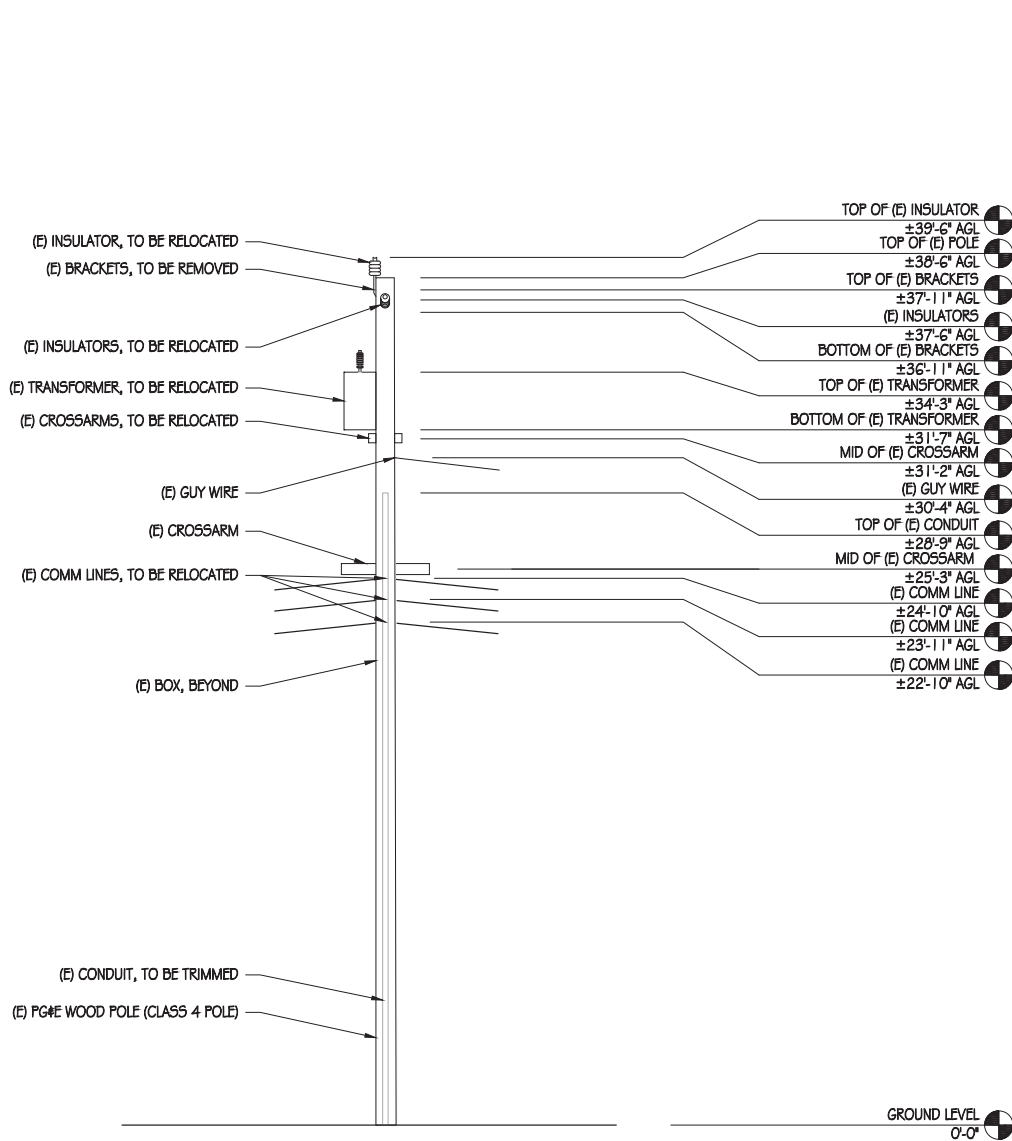
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APPROVED BY: B. McCOMB  
DATE: 10/29/18  
SHEET TITLE:

ELEVATIONS

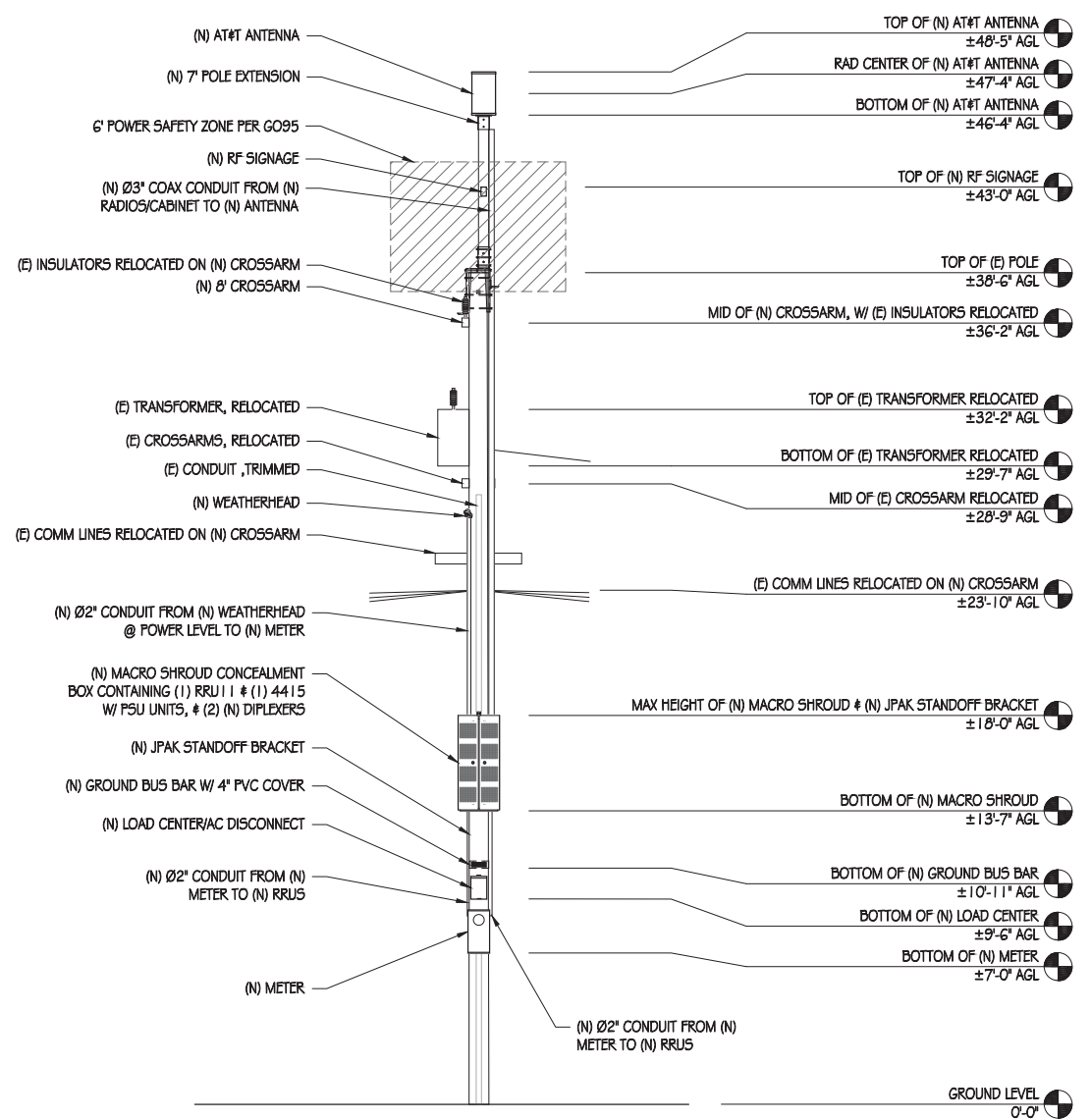
SHEET NUMBER

A-4



EXISTING EAST ELEVATION

1/4" = 1'-0"



NEW EAST ELEVATION

1/4" = 1'-0"

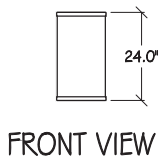
NOTE: ALL (N) EQUIPMENT TO BE PAINTED MESA BROWN  
NOTE: COMM LINES RELOCATED ON (N) CROSSARM

**POLE-TOP EXTENSION NOTES:**

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

**KMW FX-OM2L1OH2-06T**

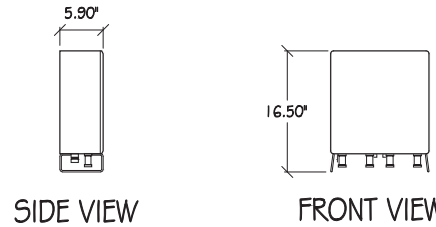
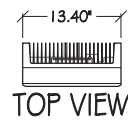
WIND AREA: 2.67 SQ FT  
 WEIGHT: 34.2 LBS  
 DIMENSIONS: Ø 16.0" X 24.0" TALL  
 RF CONNECTORS: (12) 4.3-10 FEMALE



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

**ERICSSON RRU5-4415**

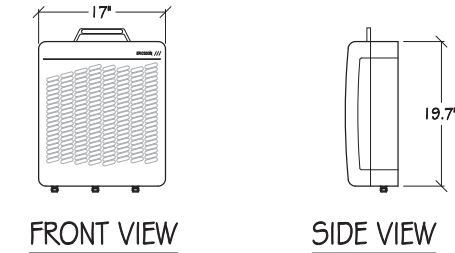
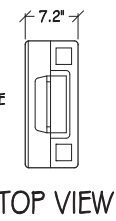
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



**2 RRU5-4415 DETAIL**  
 1"=1'

**ERICSSON RRU5-111**

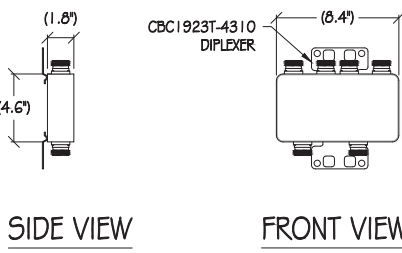
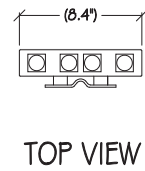
TOTAL WEIGHT: 55 LBS  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



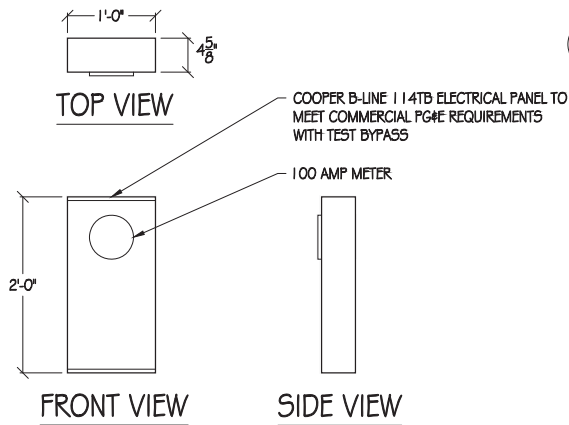
**3 RRU5-111 DETAIL**  
 1"=1'

**COMMSCOPE  
 CBC1923T-4310/  
 E11F13P06**

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



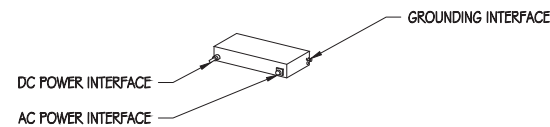
**4 DIPLEXER DETAIL**  
 1"=6"



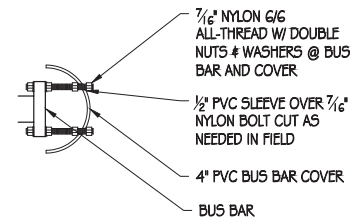
**5 METER DETAIL**  
 1"=1'

**ERICSSON PSU AC 08**

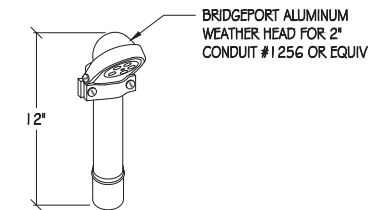
DIMENSIONS: 2.72" X 10.79" X 7.09"  
 WEIGHT: 11.46 LBS



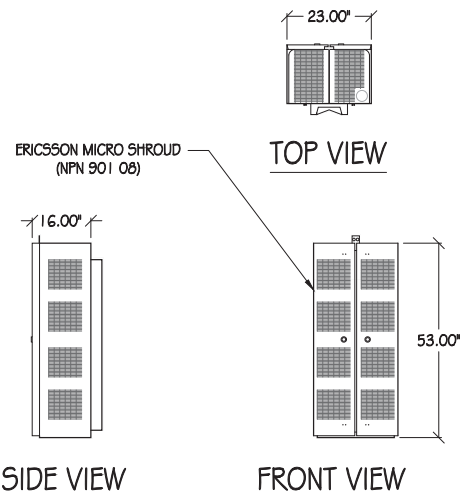
**6 AC POWER MODULE**  
 NTS



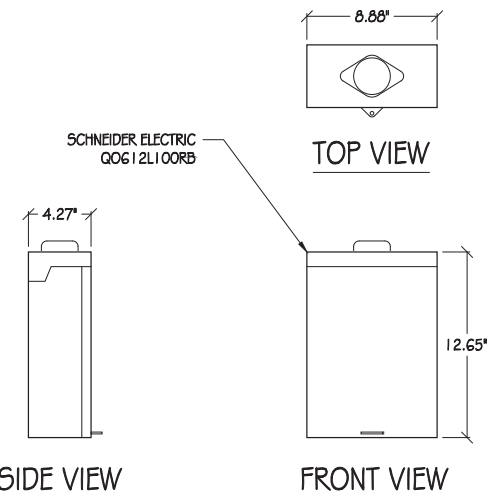
**7 BUS BAR COVER**  
 6"=1'



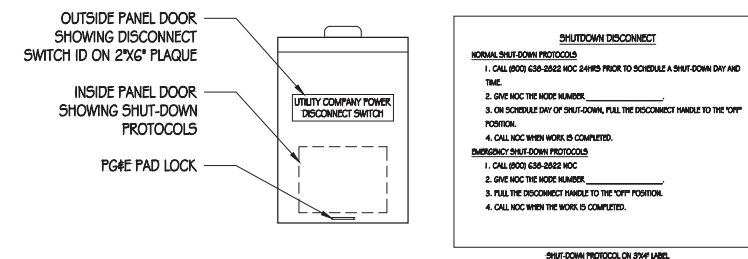
**8 WEATHER HEAD**  
 NTS



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



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



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

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



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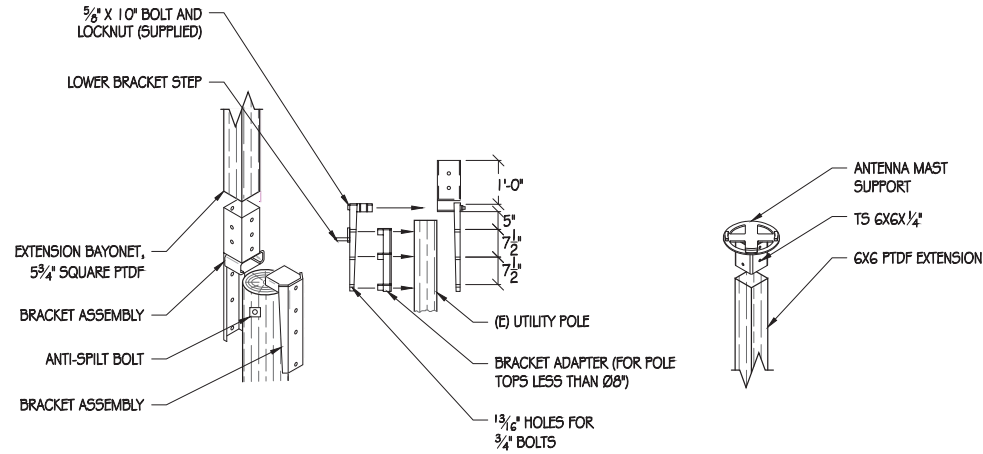
DETAILS

SHEET NUMBER

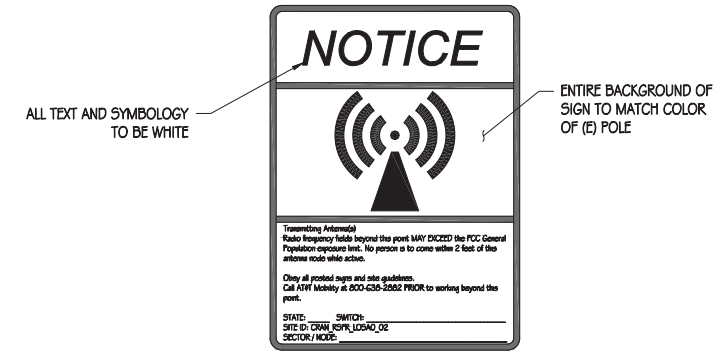
A-5

**STRUCTURAL STEEL NOTES:**

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F<sub>y</sub>=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS) 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 HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

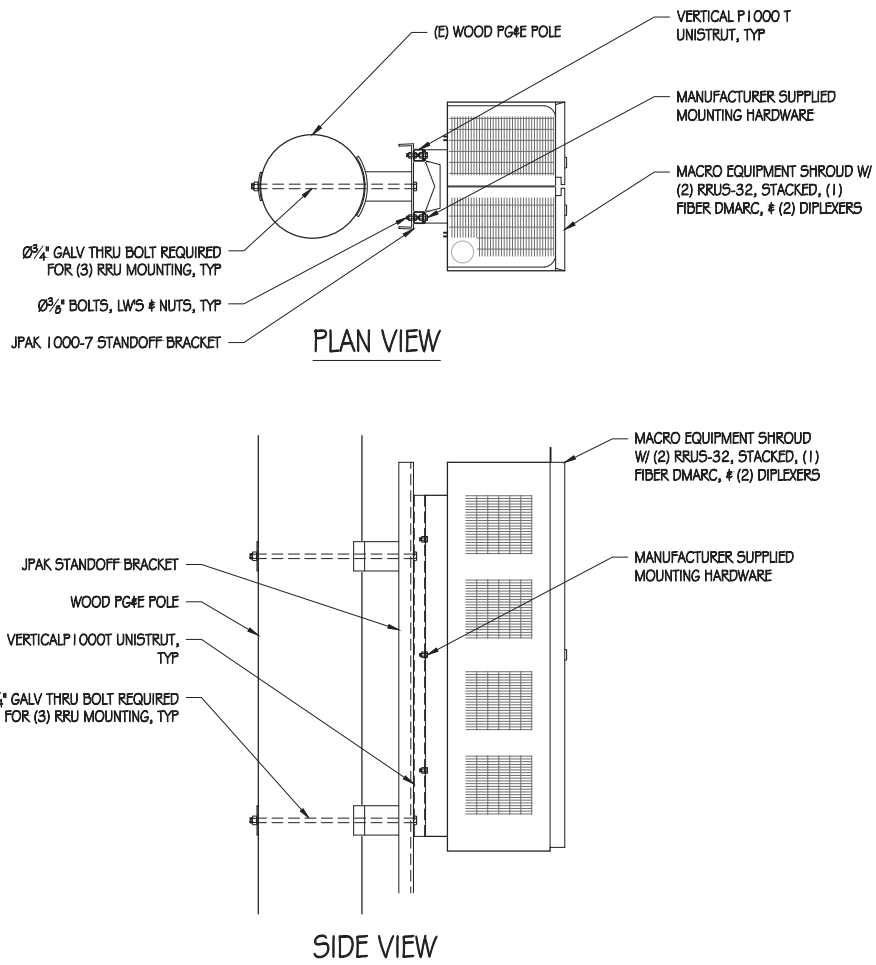


**1 POLE TOP EXTENSION ASSEMBLY**  
1/2" = 1'

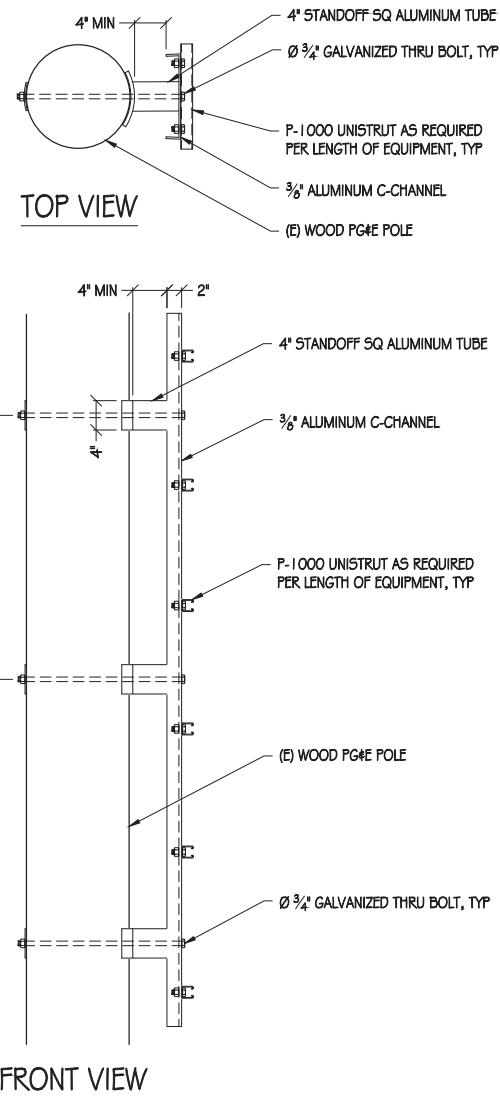


**2 NOTICE SIGNAGE**  
NTS

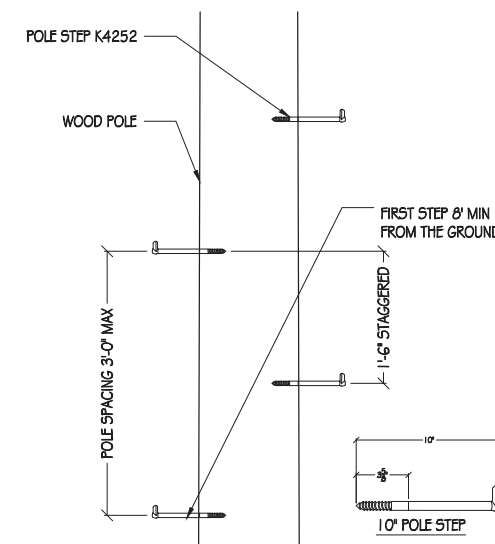
NOTES:  
NOTICE IS A VINYL STICKER ADHERED TO POLE



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



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



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



AT&T MOBILITY  
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LOS ALTOS, CA 94022

**ISSUE STATUS**

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

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

SHEET TITLE:

DETAILS

SHEET NUMBER

**A-6**



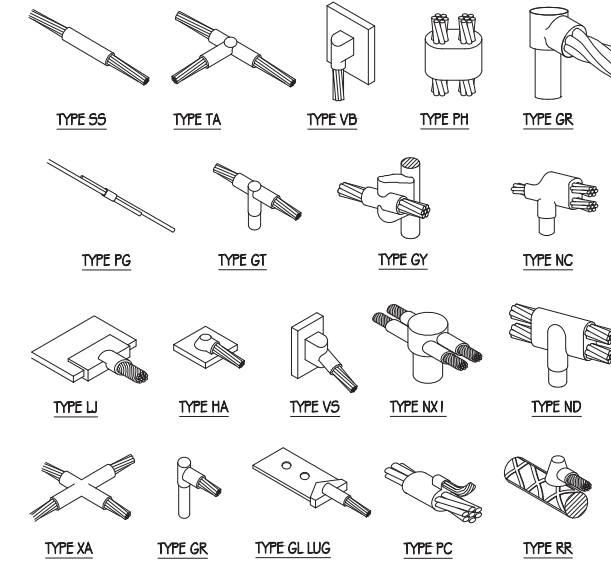
**GENERAL ELECTRICAL NOTES:**

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

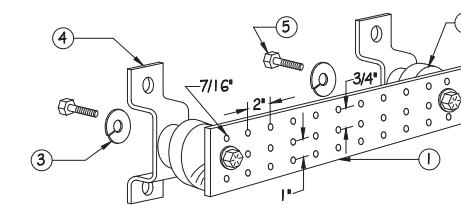
**POWER AND TELCO NOTES:**

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

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

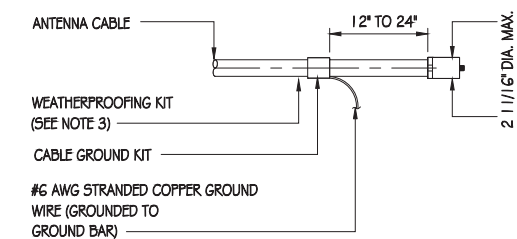


**4 EXOTHERMIC WELD DETAILS**  
NTS



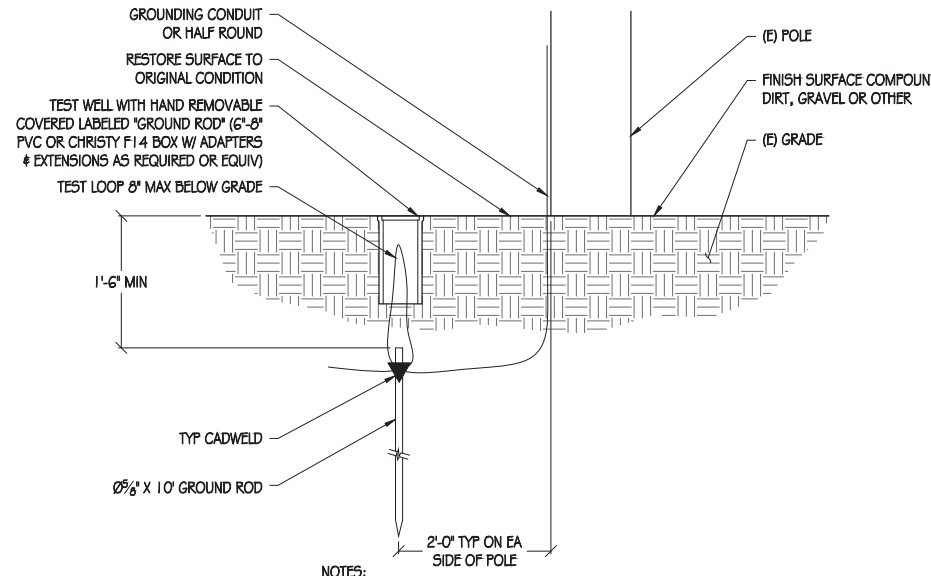
- NOTES:**
1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
  2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
  3. 5/8\"/>

**5 GROUND BAR DETAIL**  
NTS

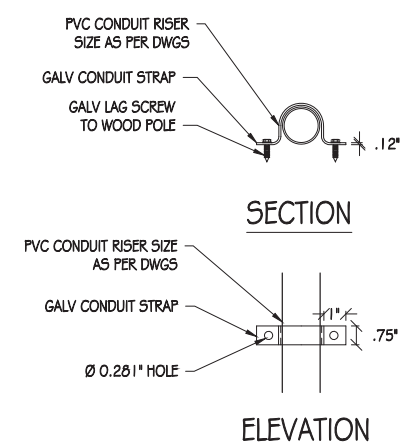


- NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
  3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

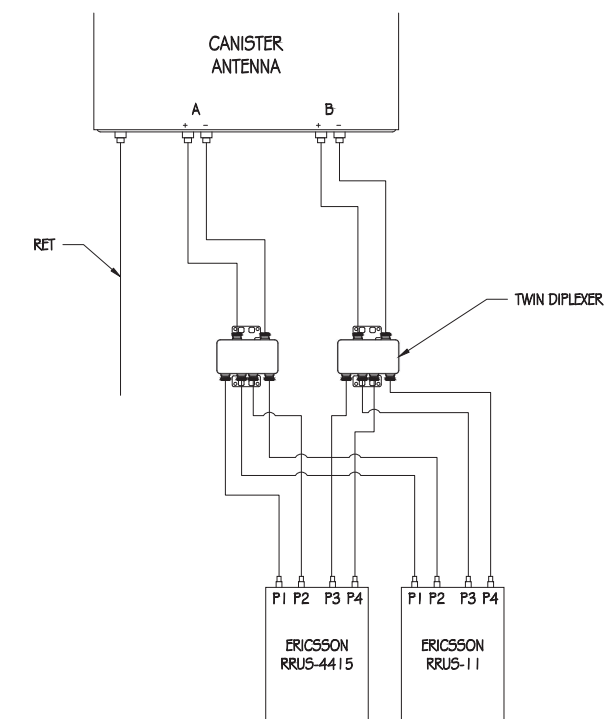
**6 GND KIT DETAIL**  
NTS



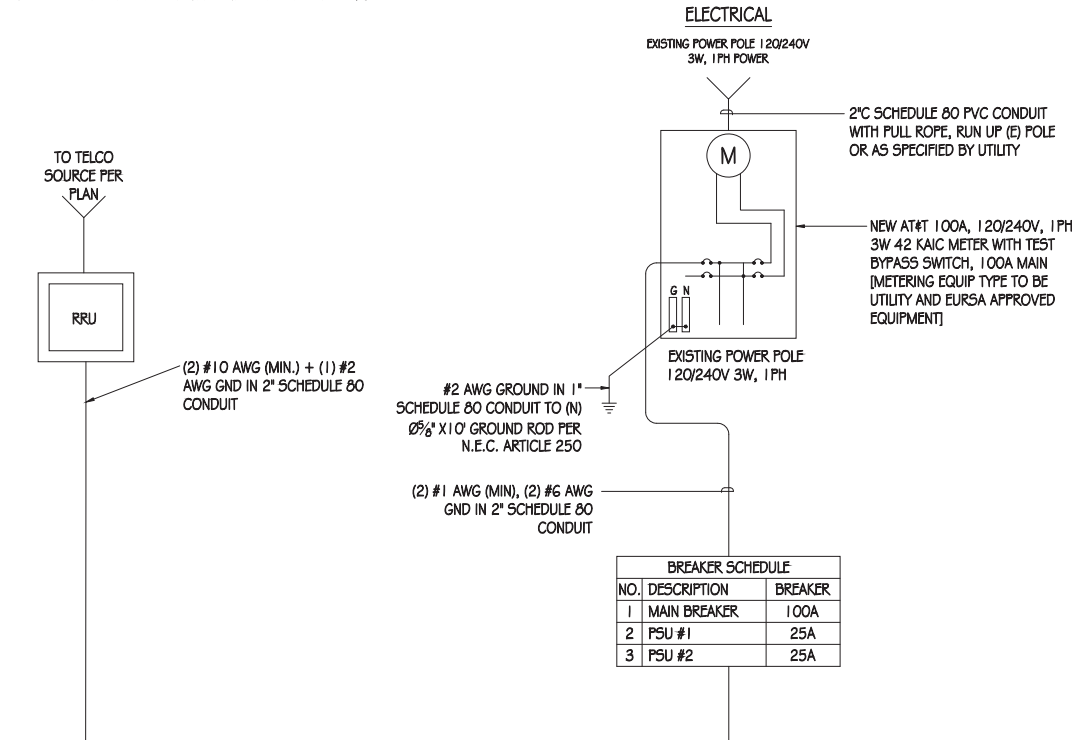
- NOTES:**
1. IF GROUND ROD IS INSTALLED ON SIDEWALK AREA, CORE DRILL SIDEWALK PRIOR TO INSTALLING INSPECTION WELL
  2. EXPOSED CONCRETE TO HAVE BROOM FINISH
- 1 POLE GROUNDING DETAIL**  
NTS



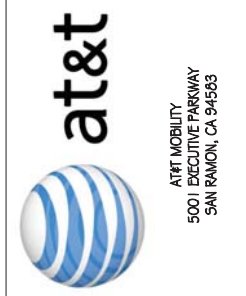
**2 CONDUIT RISER DETAIL**  
NTS



**3 WIRE DIAGRAM DETAIL**  
NTS



**SINGLE-LINE DIAGRAM**



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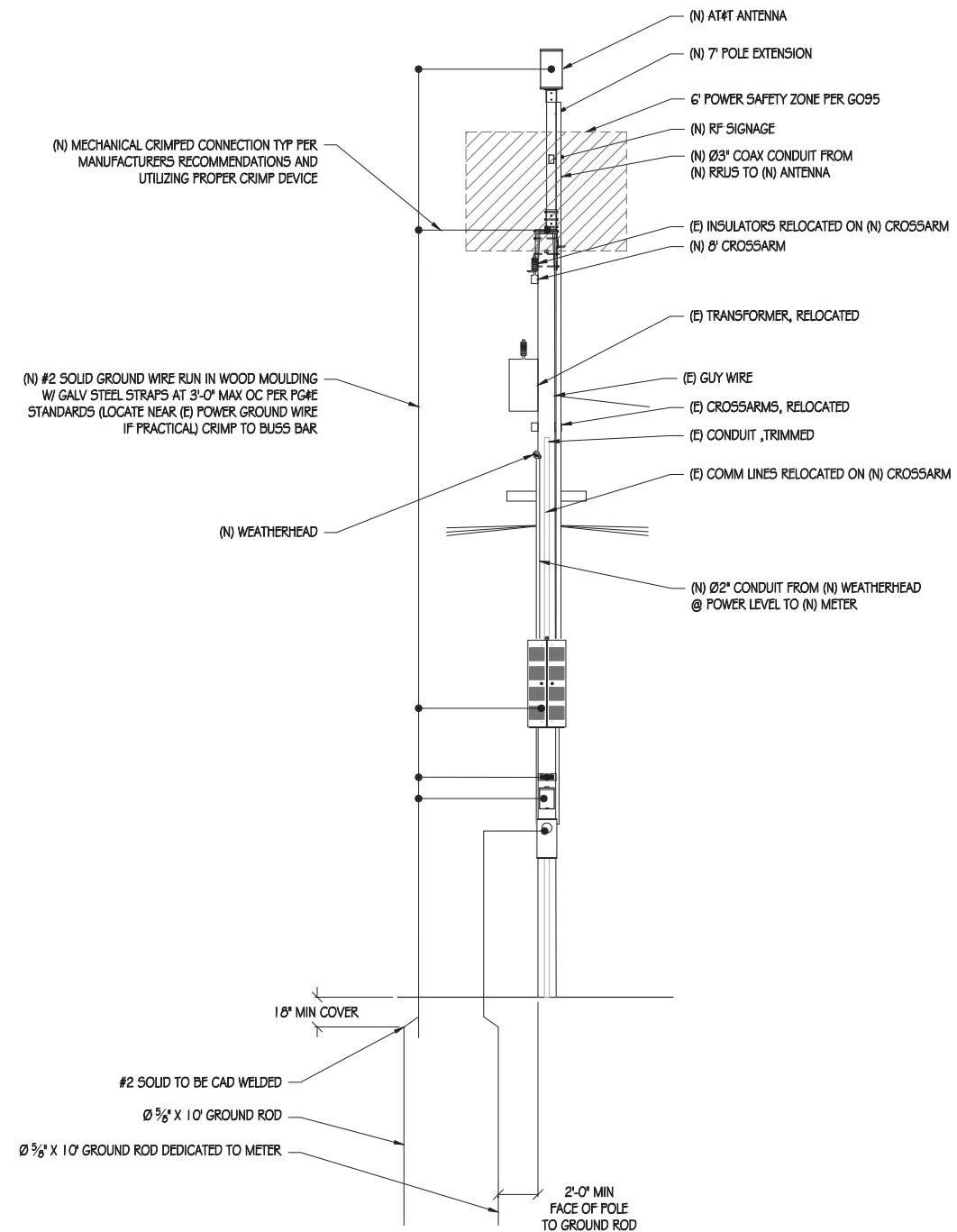
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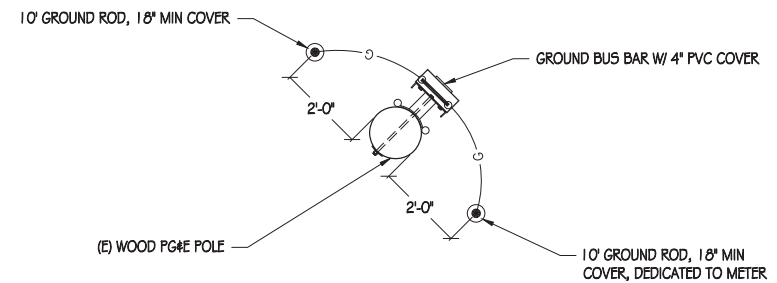
DRAWN BY: I. BAKER  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 10/29/18  
SHEET TITLE:  
SINGLE-LINE DIAGRAM & DETAILS  
SHEET NUMBER

E-1



**POLE GROUNDING DIAGRAM**

NTS



**GROUNDING PLAN**

NTS



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APPROVED BY: B. McCOMB

DATE: 10/29/18

SHEET TITLE:

GROUNDING DIAGRAMS

SHEET NUMBER

**E-2**