



# 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

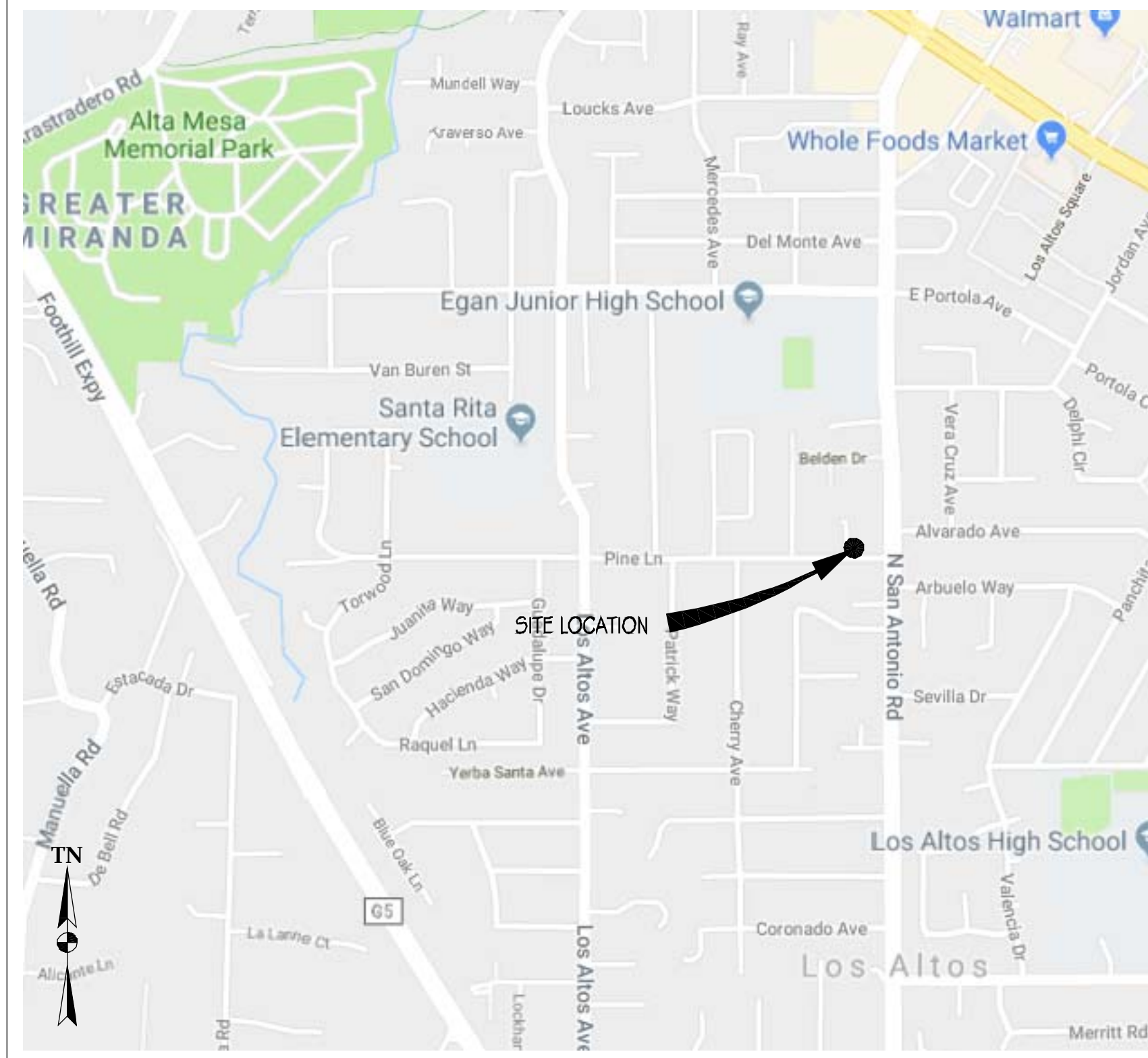
ZONING: PUBLIC ROW

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:  
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ARCHITECT/ENGINEER OF RECORD:  
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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:

- 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.
- ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
- UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
- FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

## DRAWING INDEX

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T-1	TITLE SHEET
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A-1	SITE PLAN
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A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	DETAILS
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E-2	GROUNDING DIAGRAMS

## CODE COMPLIANCE

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

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

## HANDICAP REQUIREMENTS

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

## DRIVING DIRECTIONS

### DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM:	TO:		
5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583	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 SOUTHBAY 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

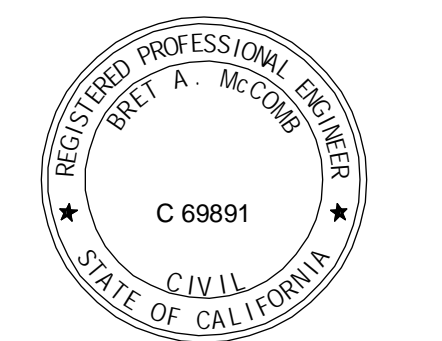
At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

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

## ADMINISTRATIVE REQUIREMENTS

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

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  
SHEET TITLE:

TITLE SHEET

SHEET NUMBER

T-1



GENERAL CONSTRUCTION NOTES

- 1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. 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.
6. 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.
7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
8. DO NOT EXCAVATE OR DISTURB 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 A/TIT 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 W/AC 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.

GENERAL NOTES FOR EXISTING CELL SITES

- 1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
2. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
3. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
4. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
5. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER 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.
6. 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

- 1. CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A/H) FOR THE LOCATION.
2. THE EDITION OF THE A/H ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, 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')
4. 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
5. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
6. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

- 1. MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
2. MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
3. MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
4. ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED.
5. IN STREET SURVEY TO GRADE AND MILL DOWN 1'-1/2" FOR AC CAP.
6. IN DIRT SURVEY 1" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BALANCE
7. WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #1&8 WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

- 1. 5/8" x 10' ROD, CAD WELD BELOW GRADE
2. GROUND TESTED AT 5 OHMS OR LESS.
3. #2 GROUND AND BOND WIRE
4. GROUND 2' MIN FROM POLE.
5. PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBD OR STRONG BOX.
6. WOOD MOULDING, STAPLED EVERY 3' AND AT EACH END, UNLESS OTHERWISE NOTED.

GENERAL CONDUIT NOTES

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

- 1. CABLE NOT TO IMPEDE 15' CLEAR SPACE OFF POLE FACE.
2. ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
3. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
4. ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMBERS TO BE FILLED.
5. 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
6. USE 90° CONNECTOR AT CABLE CONNECTION FOR OMNI DOWN ANTENNAS.
7. USE CABLE CLAMPS TO SECURE CABLE TO ARMS, PLACE 2" T-MOBILE CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
8. USE 1/2" DIA. CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
9. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

ABBREVIATIONS

Table of abbreviations for construction and electrical symbols. Includes terms like AMPERE, ANCHOR BOLT, ABOVE, ANTENNA CABLE COVER ASSEMBLY, ADDITIONAL, ABOVE FINISHED FLOOR, etc.

SYMBOLS LEGEND

Table of symbols legend for construction and electrical symbols. Includes symbols for NEW ANTENNA, EXISTING ANTENNA, GROUND ROD, GROUND BUSS BAR, MECHANICAL GRND. CONN., GROUND ACCESS WELL, ELECTRIC BOX, TELEPHONE BOX, LIGHT POLE, FND. MONUMENT, SPOT ELEVATION, SET POINT, REVISION, GRID REFERENCE, DETAIL REFERENCE, ELEVATION REFERENCE, SECTION REFERENCE, GROUT OR PLASTER, (E) BRICK, (E) MASONRY, CONCRETE, EARTH, GRAVEL, PLYWOOD, SAND, WOOD CONT., WOOD BLOCKING, STEEL, CENTERLINE, PROPERTY/LEASE LINE, MATCH LINE, WORK POINT, GROUND CONDUCTOR, COAX, OVERHEAD SERVICE CONDUCTORS, CHAIN LINK FENCING, OVERHEAD TELEPHONE/OVERHEAD POWER, OVERHEAD TELEPHONE LINE, POWER RUN, TELCO RUN, POWER/TELCO RUN, GROUNDING CONDUCTOR, CONDUIT UNDERGROUND, FUSE, SIZE AND TYPE AS INDICATED, SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB, MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE, LIGHTING FIXTURE, FLUORESCENT, (10.94' x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #W5W232T), LIGHTING FIXTURE, FLUORESCENT, (10.94' x 6'-0", 2/95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #1W5M232T), LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121), EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #FRB, EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HEG-50-2-R91, LIGHTING FIXTURE, INCANDESCENT, 1/1100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1, LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QL-505, 5/8" X 10'-0" .CU. GND ROD 1 8" MIN. BELOW GRADE.



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PRECISION DESIGN
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REGISTERED PROFESSIONAL ENGINEER
BRETT A. MCCOMB
STATE OF CALIFORNIA
C 69891

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LOS ALTOS, CA 94022

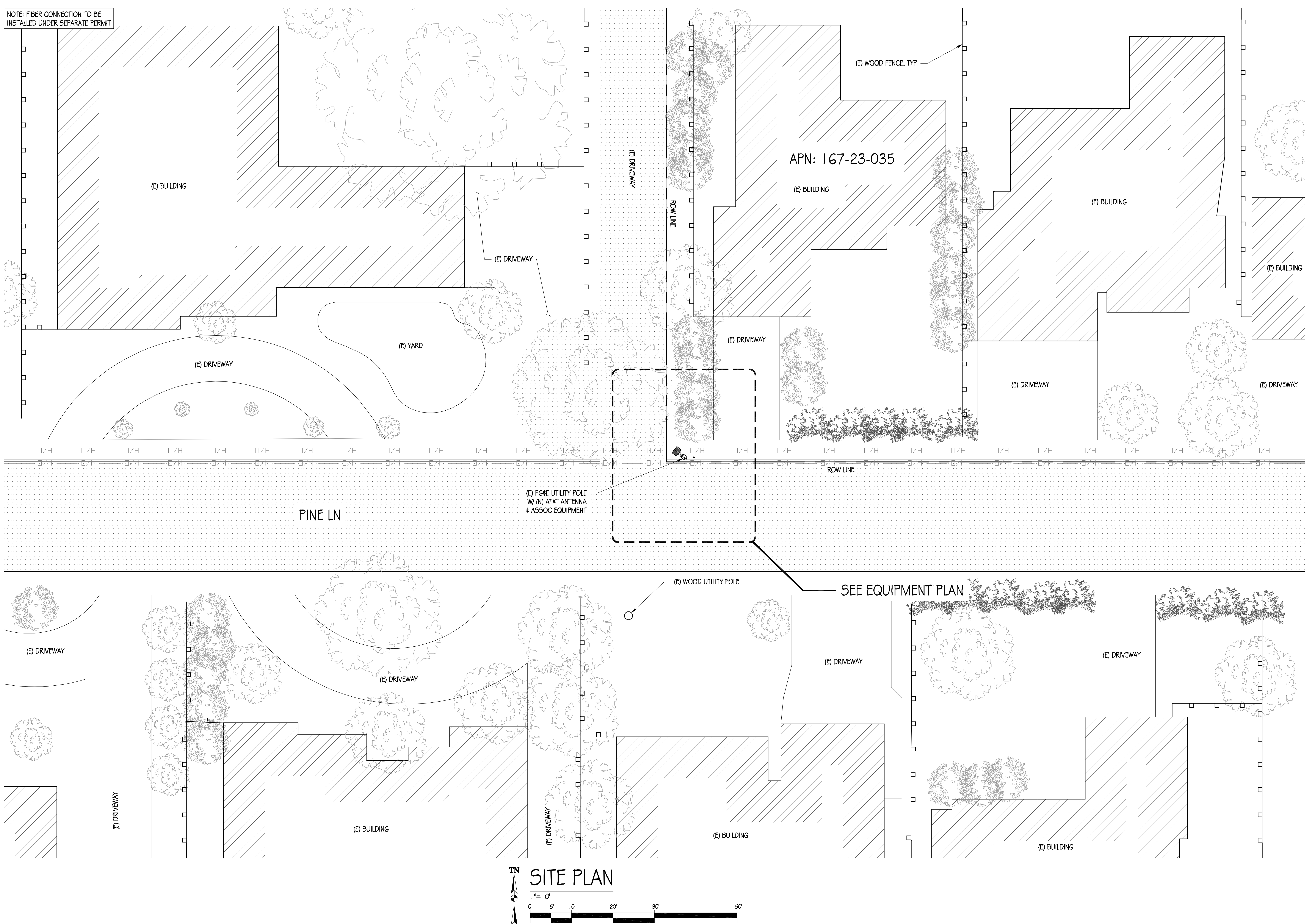
ISSUE STATUS

Table with columns: DATE, DESCRIPTION. Shows updates on 06/08/18 and 07/25/19.

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

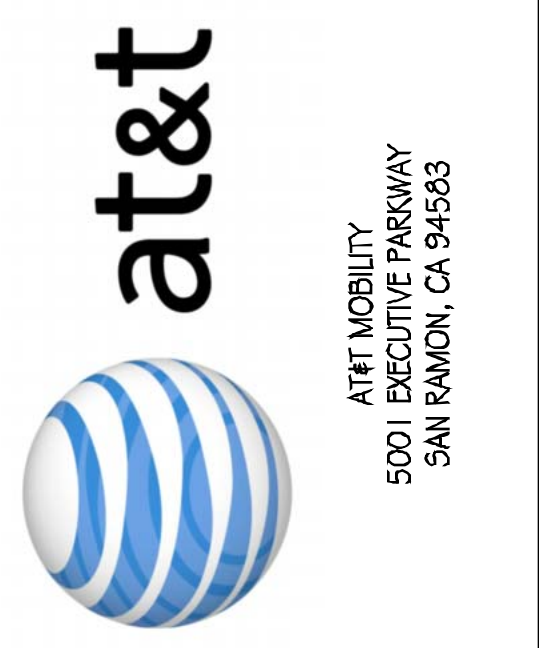


APN: 167-23-035

PINE LN

SEE EQUIPMENT PLAN

SITE PLAN



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



36 DEQUETTE 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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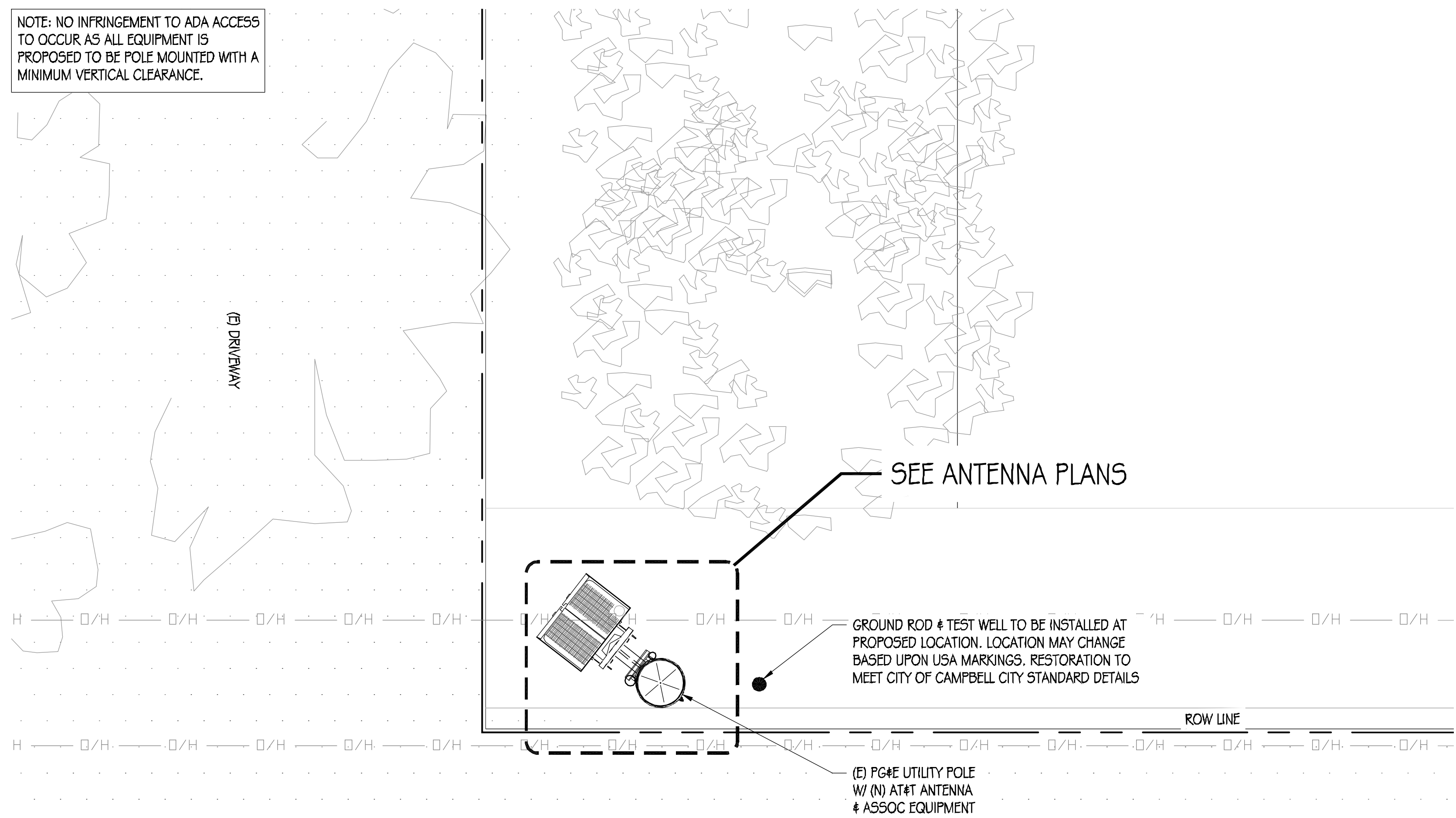
DRAWN BY: T.J. / B.L.  
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APPROVED BY: B. McCOMB  
DATE: 07/25/19

SHEET TITLE:  
SITE PLAN

SHEET NUMBER:  
A-1

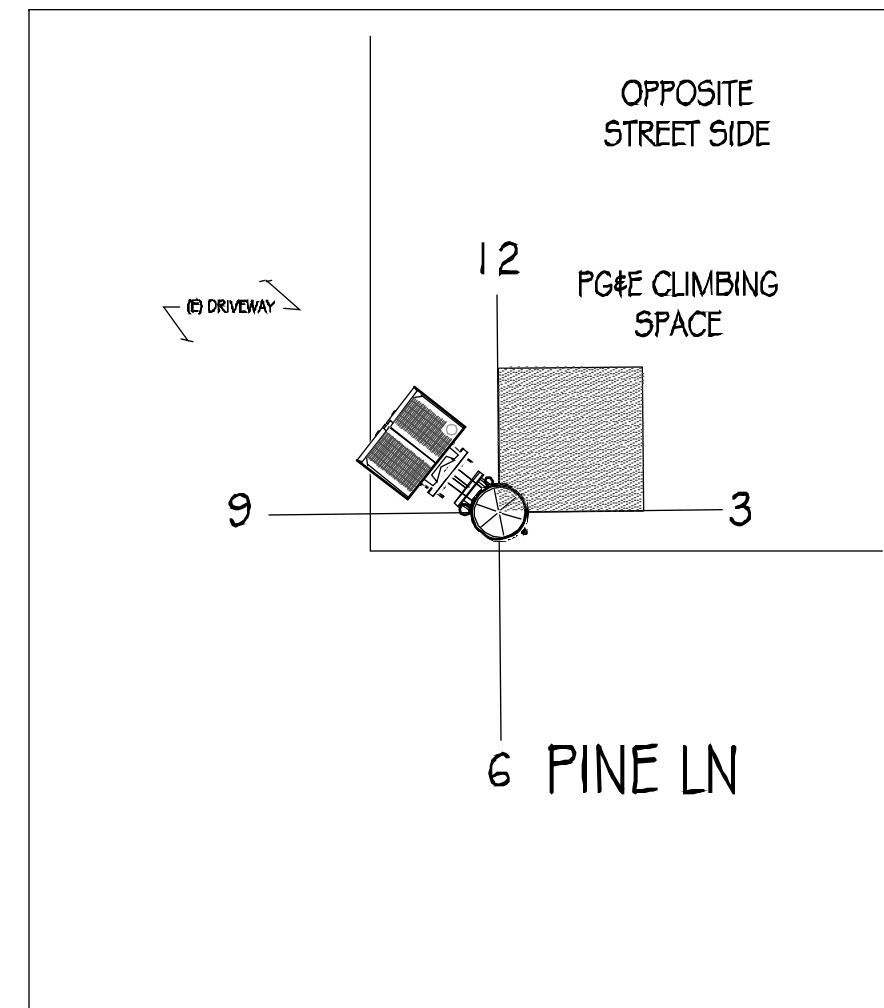


NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.

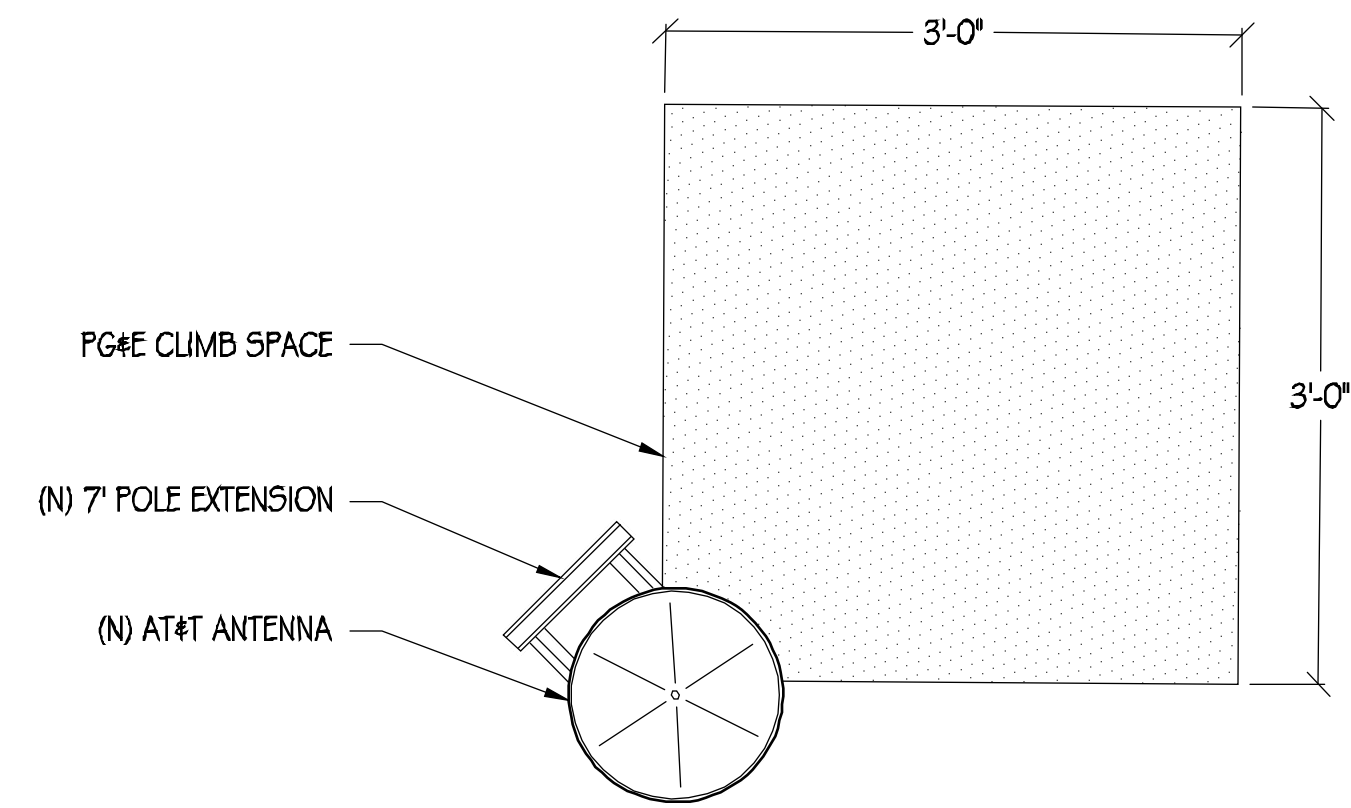


PINE LN

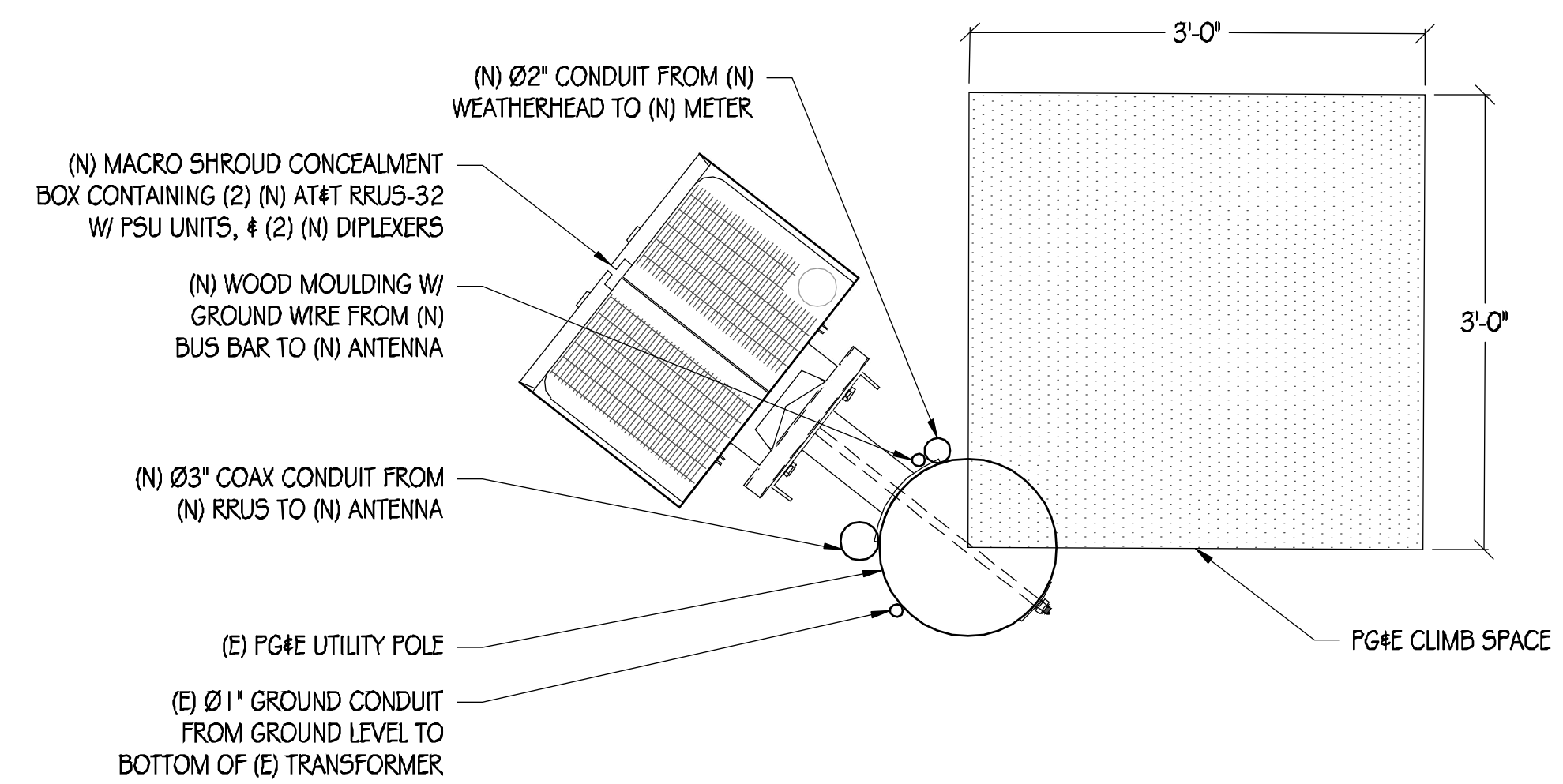
**EQUIPMENT PLAN**  
1/2" = 1'



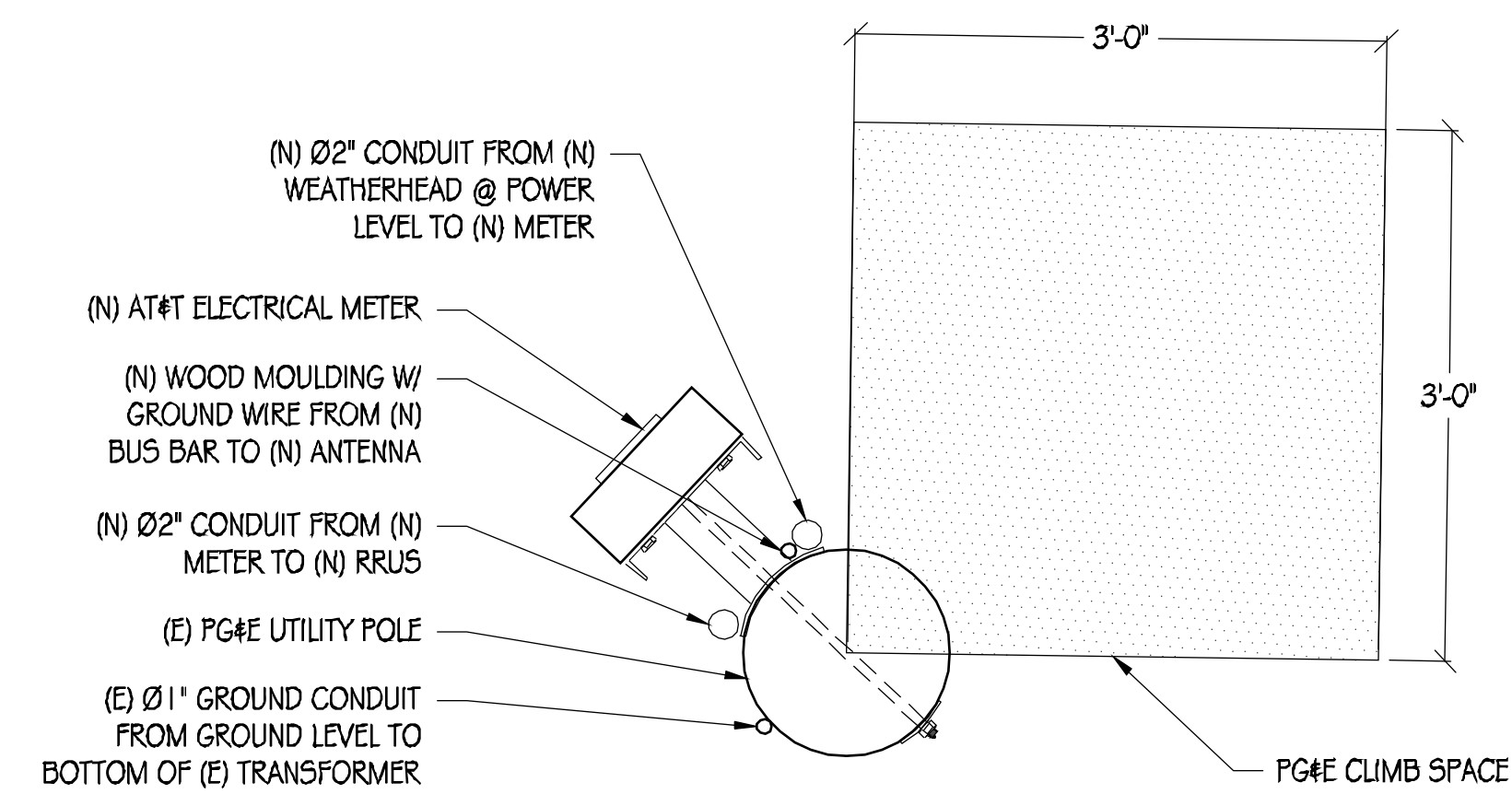
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



**ANTENNA PLAN**  
1" = 1'



**RRU PLAN**  
1" = 1'



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



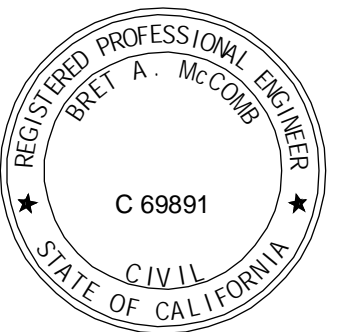
AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

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**ISSUE STATUS**

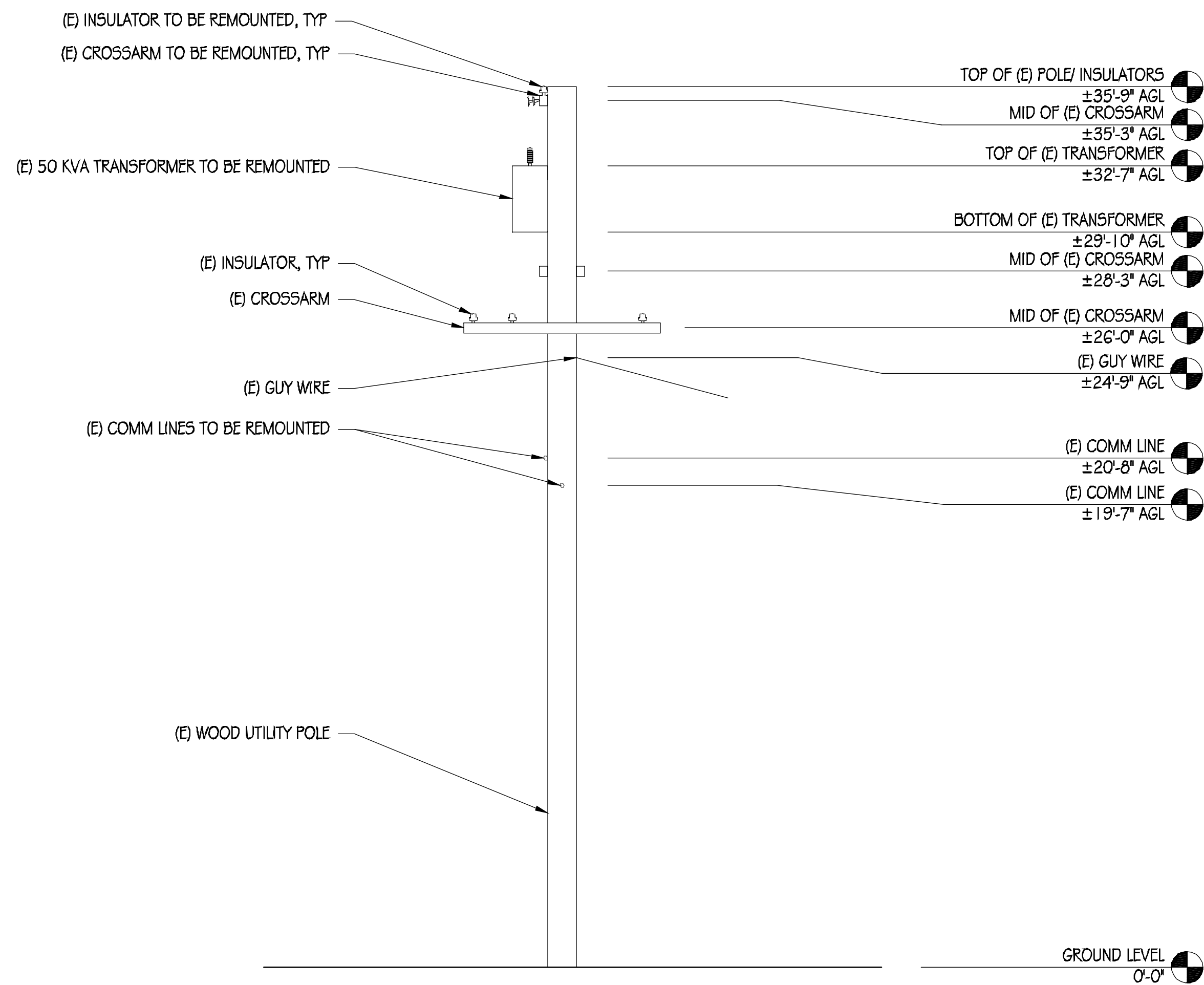
△	DATE	DESCRIPTION
	06/08/18	CD 90%
	07/25/19	CD 100%

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

SHEET TITLE:  
**EQUIPMENT PLAN # ANTENNA PLANS**  
SHEET NUMBER

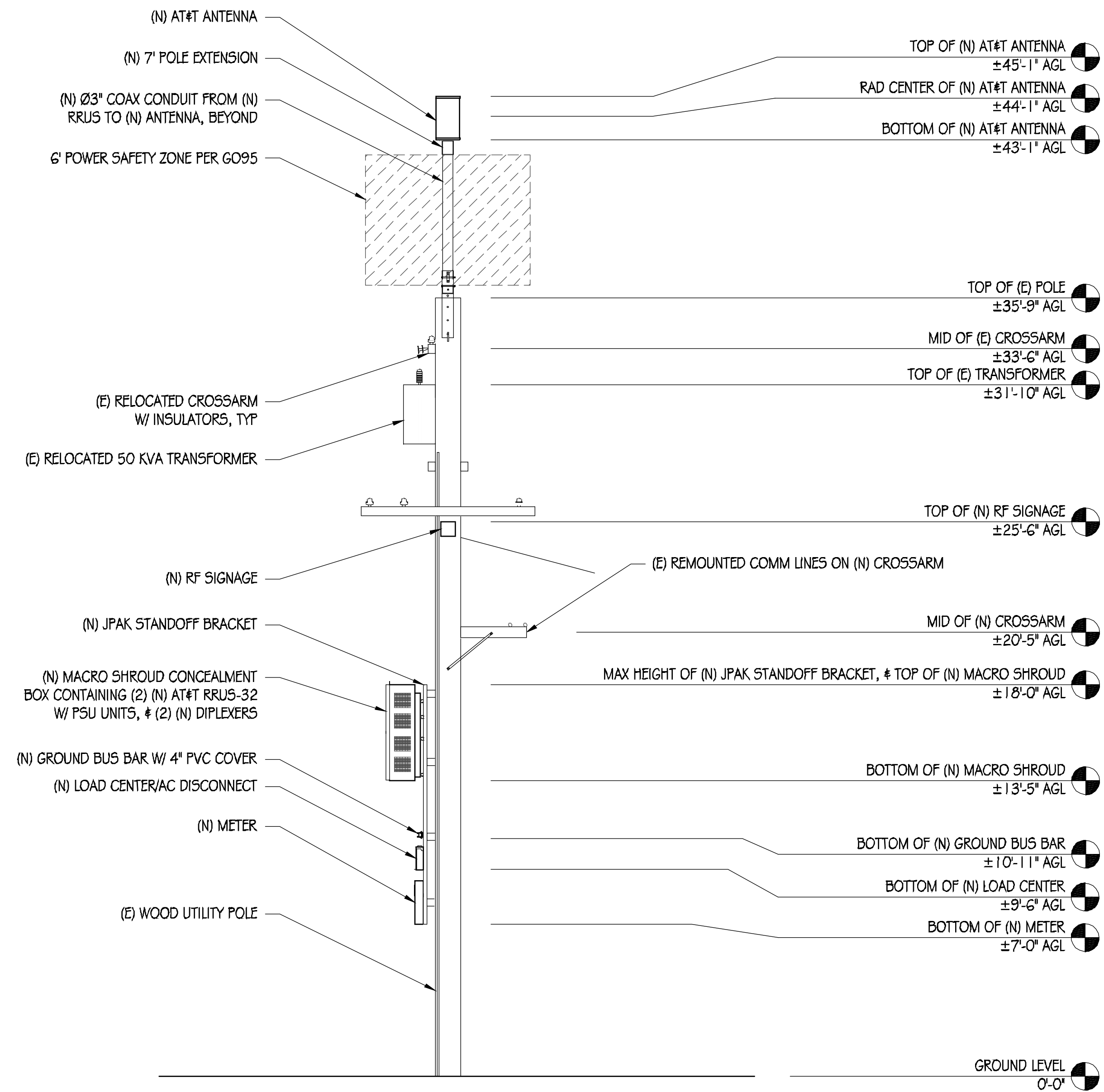
**A-2**

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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DATE: 07/25/19

SHEET TITLE:

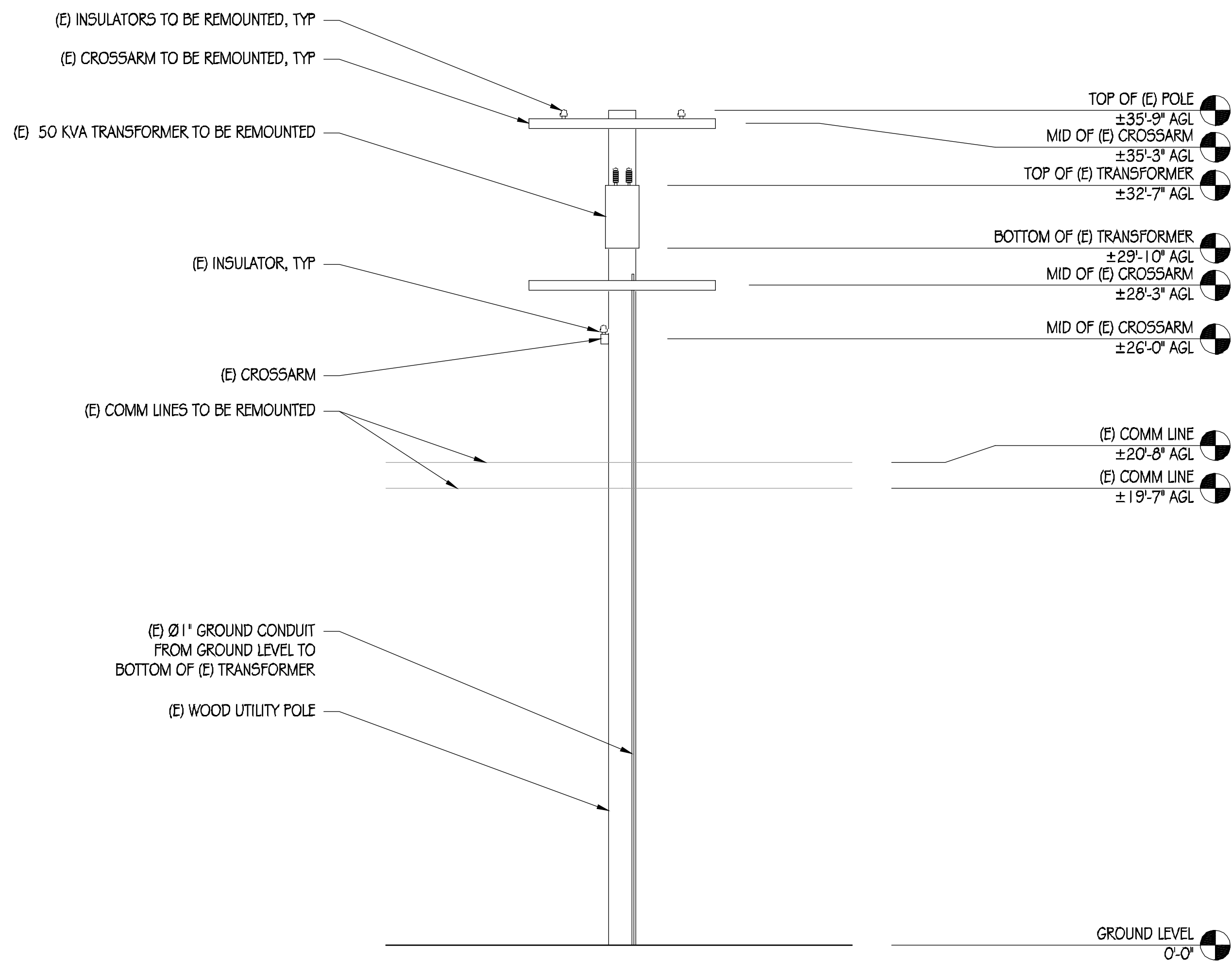
ELEVATIONS

SHEET NUMBER

A-3

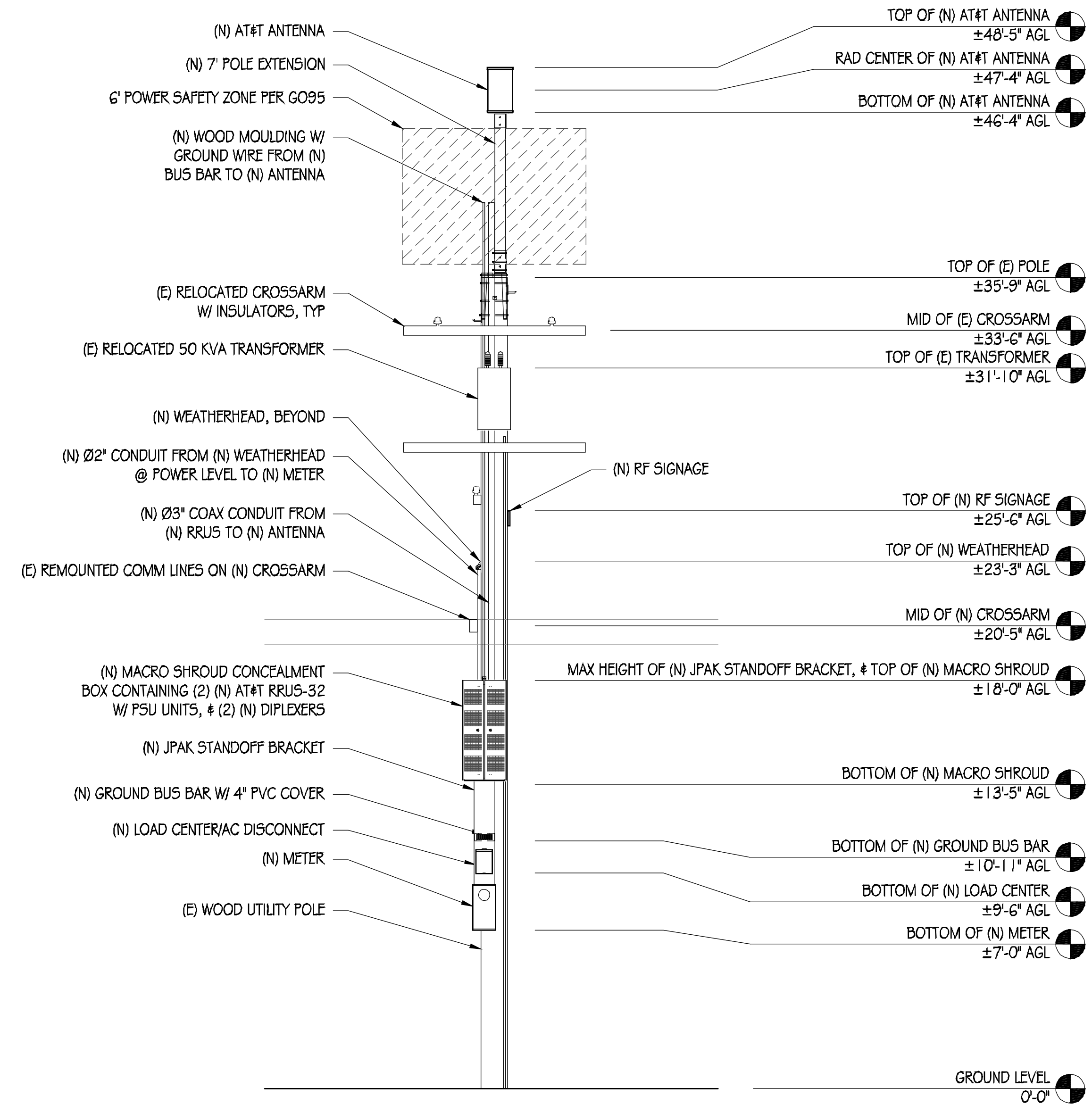


NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



EXISTING WEST ELEVATION

1/4" = 1'-0"



NEW WEST ELEVATION

1/4" = 1'-0"



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DATE: 07/25/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

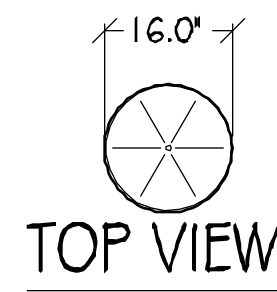
A-4

**POLE-TOP EXTENSION NOTES:**

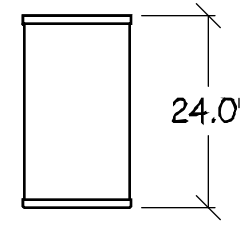
1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT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

**KMW FX-OM2L10H2-06T**

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



TOP VIEW

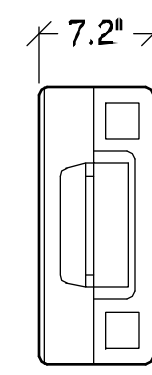


FRONT VIEW

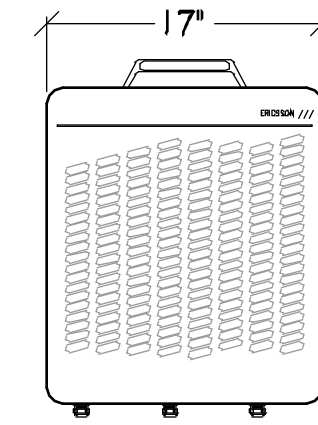
1 ANTENNA  
1/2"=1"

**ERICSSON RRUS-11**

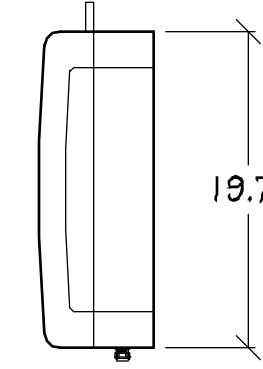
TOTAL WEIGHT: 55 LBS  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

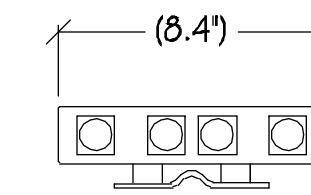


SIDE VIEW

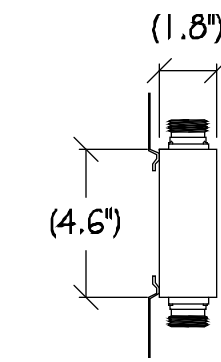
2 RRUS-11 DETAIL  
1"=1"

**COMMSCOPE CBC1923T-4310/ E11F13P06**

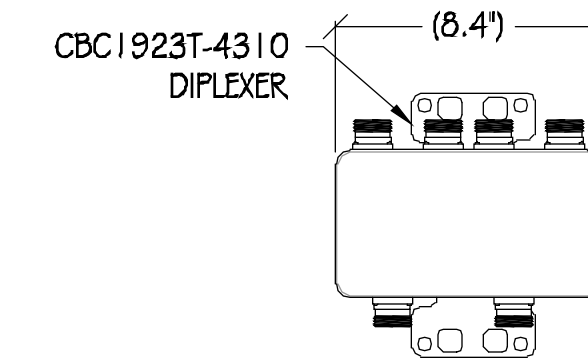
COLOR: GRAY  
 TOTAL WEIGHT: +/- 4.4 LB  
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

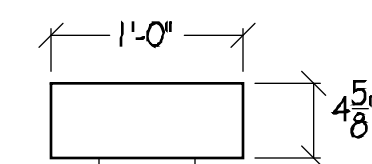


SIDE VIEW

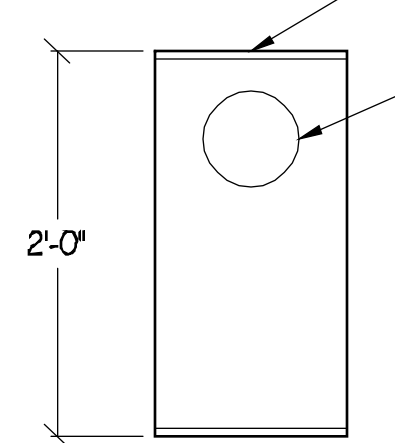


FRONT VIEW

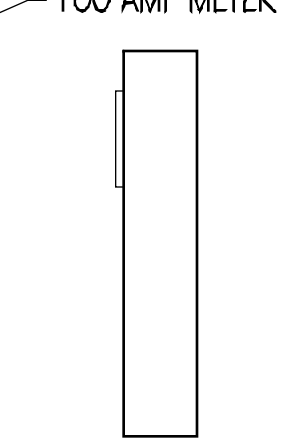
3 DIPLEXER DETAIL  
1"=6"



TOP VIEW



FRONT VIEW

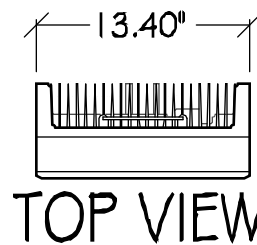


SIDE VIEW

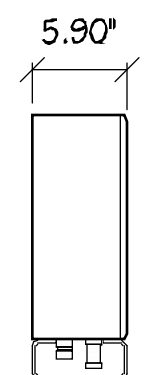
4 METER DETAIL  
1"=1"

**ERICSSON RRUS-4415**

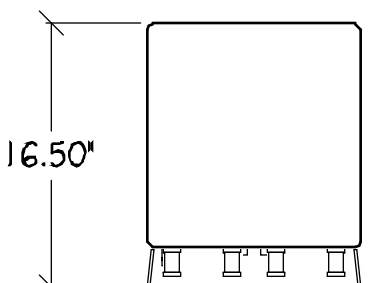
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

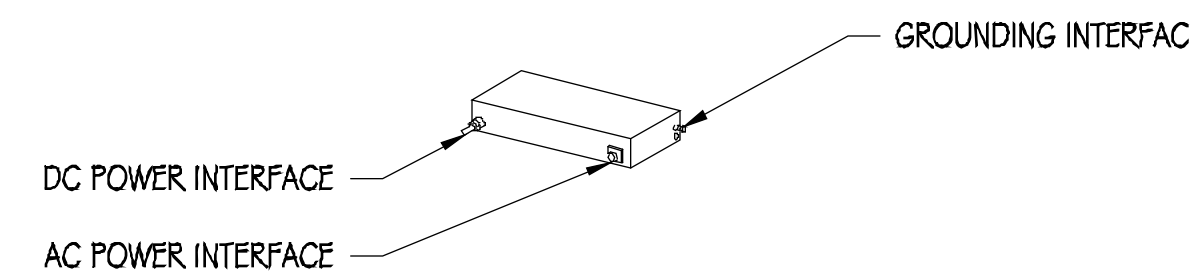


FRONT VIEW

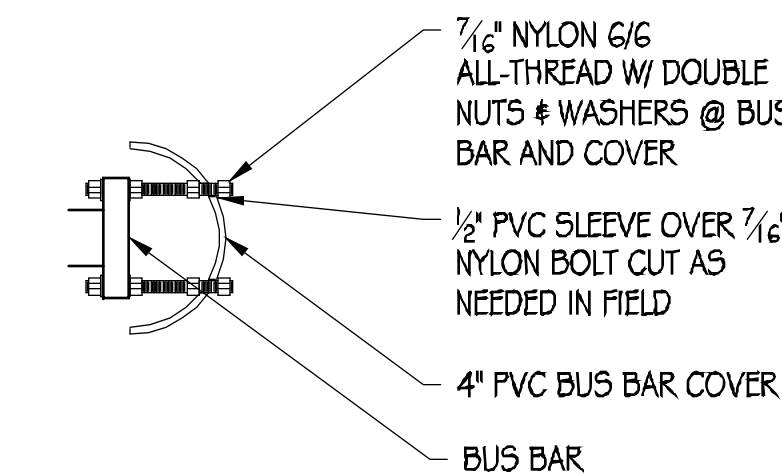
5 RRUS-4415 DETAIL  
1"=1"

**ERICSSON PSU AC 08**

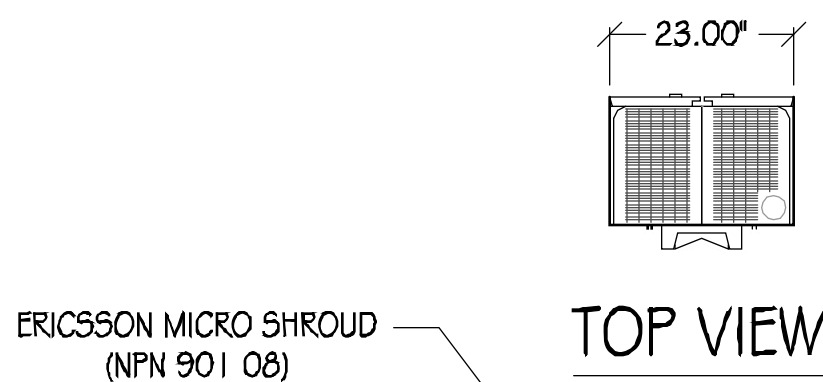
DIMENSIONS: 2.72" X 10.79" X 7.09"  
 WEIGHT: 11.46 LBS



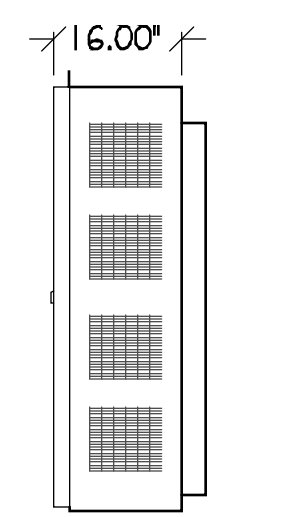
6 AC POWER MODULE  
NTS



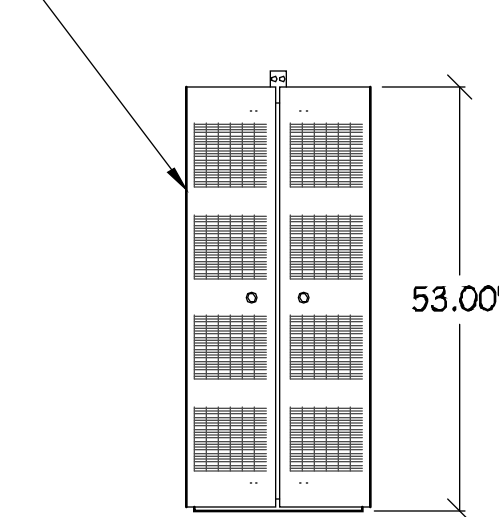
7 BUS BAR COVER  
6"=1"



TOP VIEW

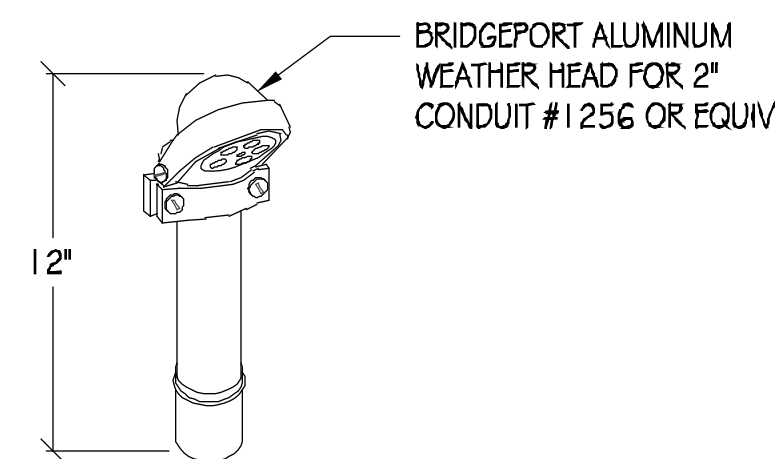


SIDE VIEW



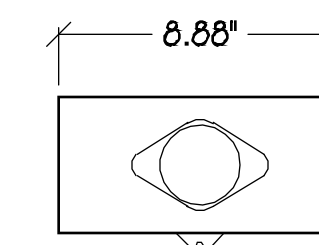
FRONT VIEW

8 MICRO SHROUD CONCEALMENT  
1/2"=1"

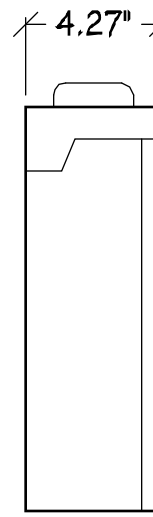


9 WEATHER HEAD  
NTS

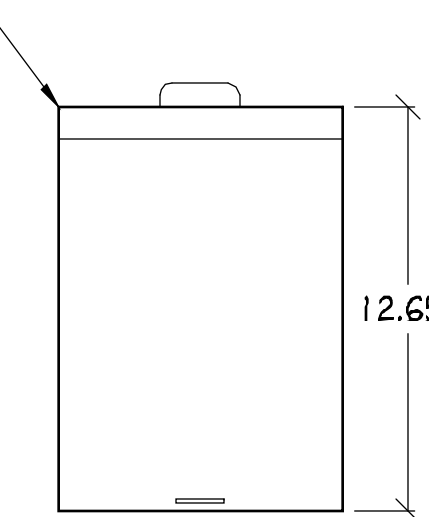
SCHNEIDER ELECTRIC  
 Q0612L100RB



TOP VIEW

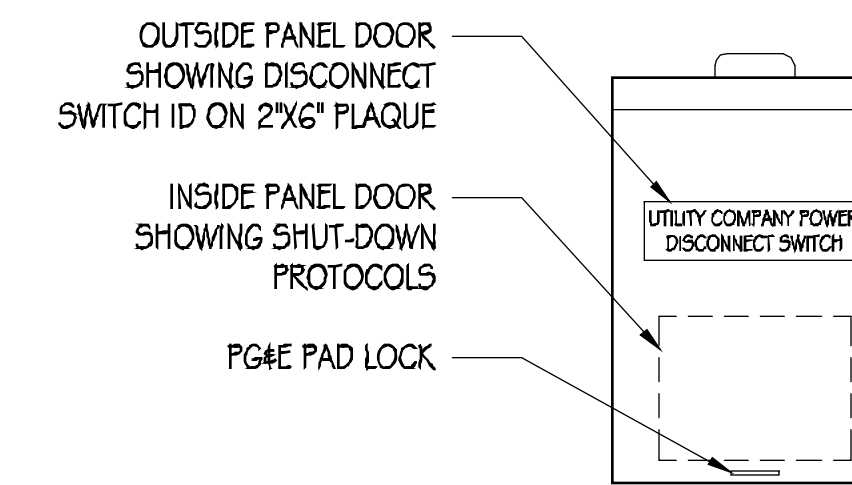


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT  
1"=6"



11 DISCONNECT SIGNAGE  
3"=1"

**SHUTDOWN DISCONNECT**

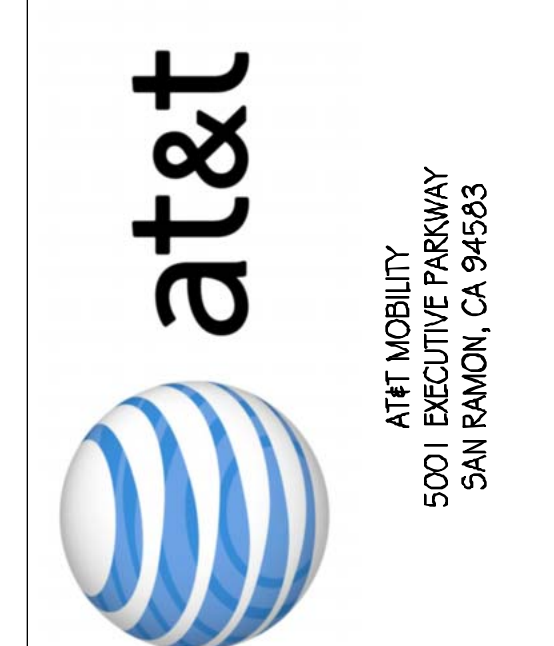
**NORMAL SHUT-DOWN PROTOCOLS**

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

**EMERGENCY SHUT-DOWN PROTOCOLS**

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

SHUT-DOWN PROTOCOL ON 9\"/>



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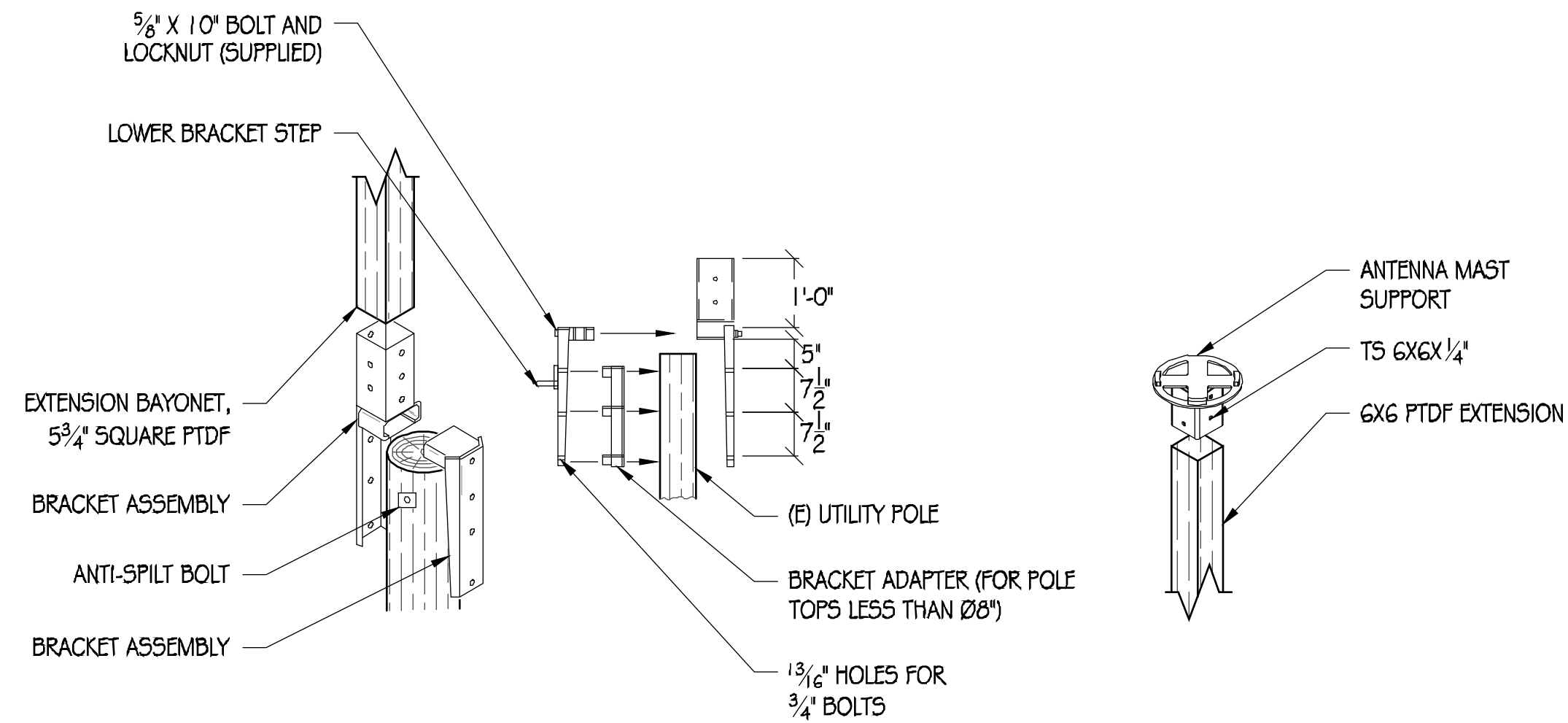
SHEET TITLE:  
 DETAILS  
 SHEET NUMBER:  
**A-5**

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'

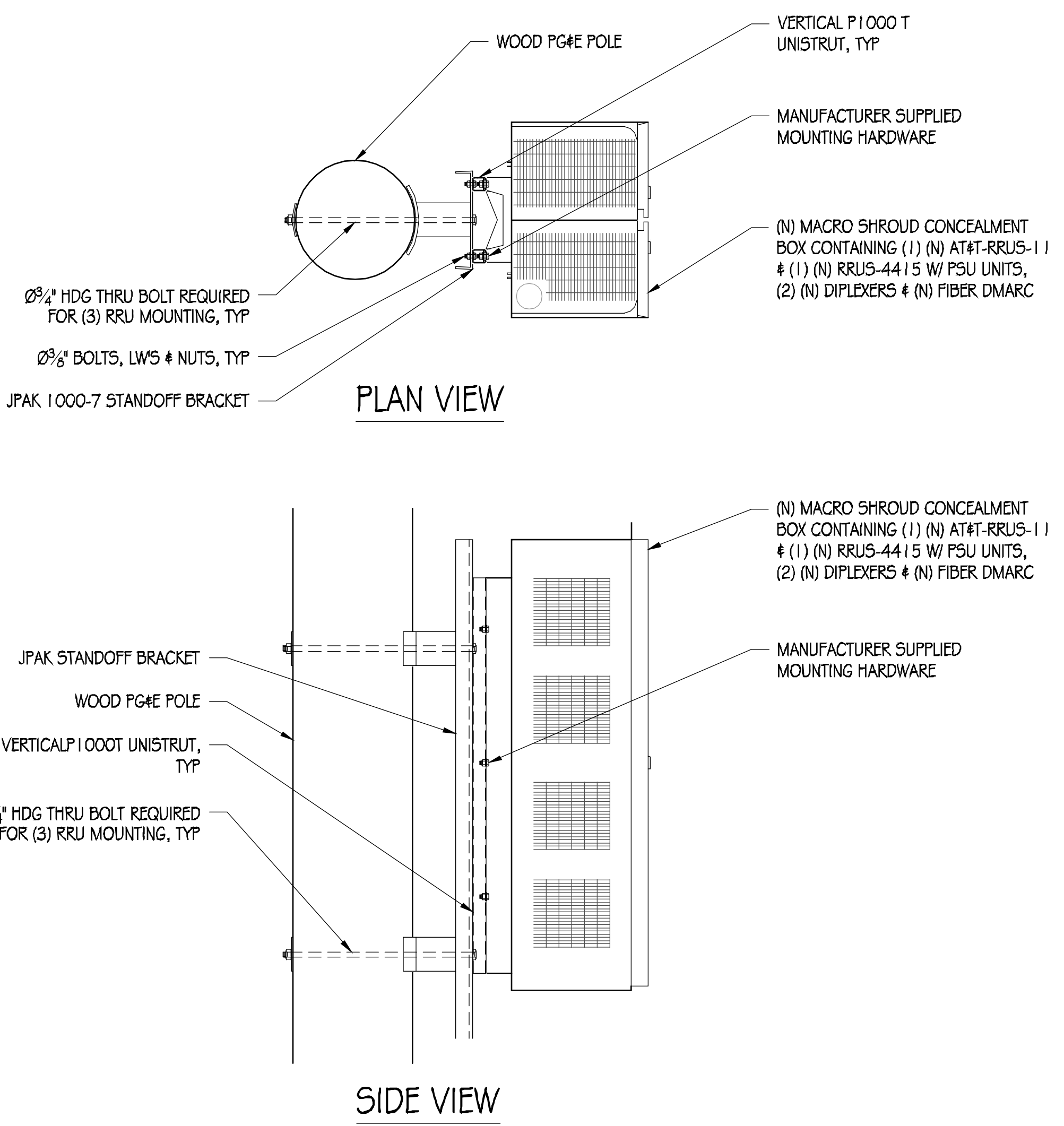
**NOTICE**

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 \_\_\_\_\_

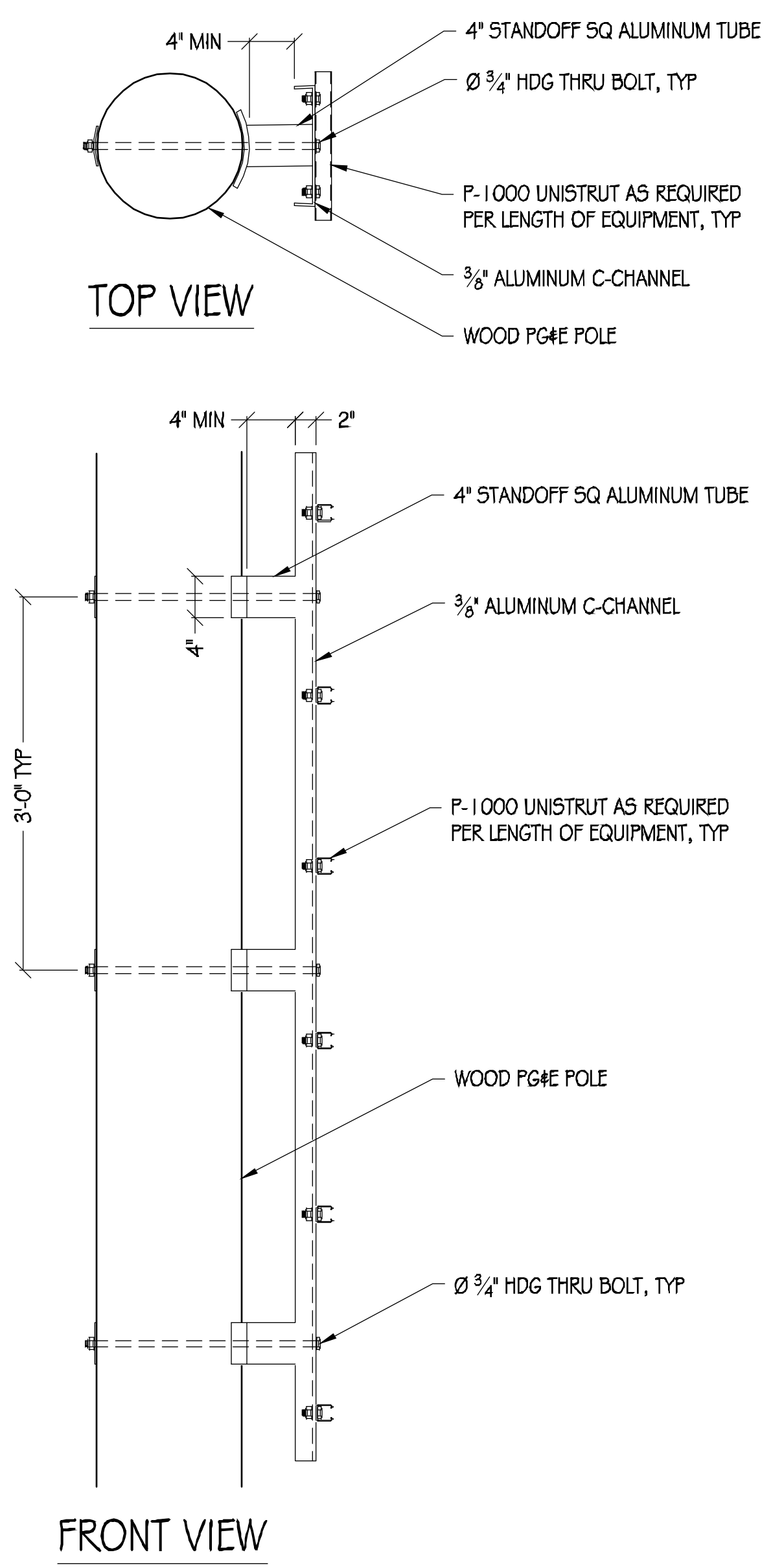
12.25" X 12.25" NOTICE DECAL BLUE DECAL

**2 NOTICE SIGNAGE**  
NTS

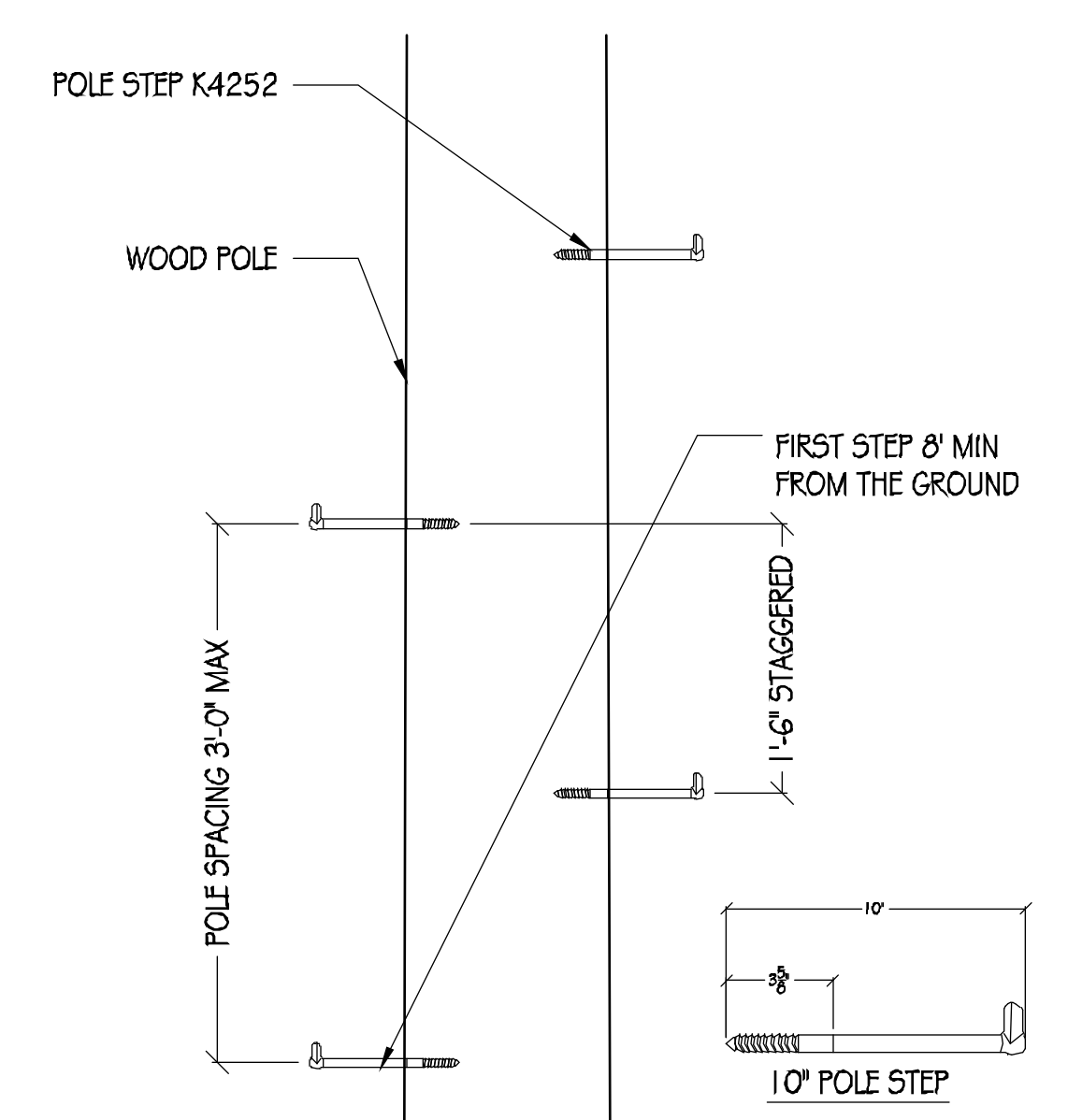
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
  - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA



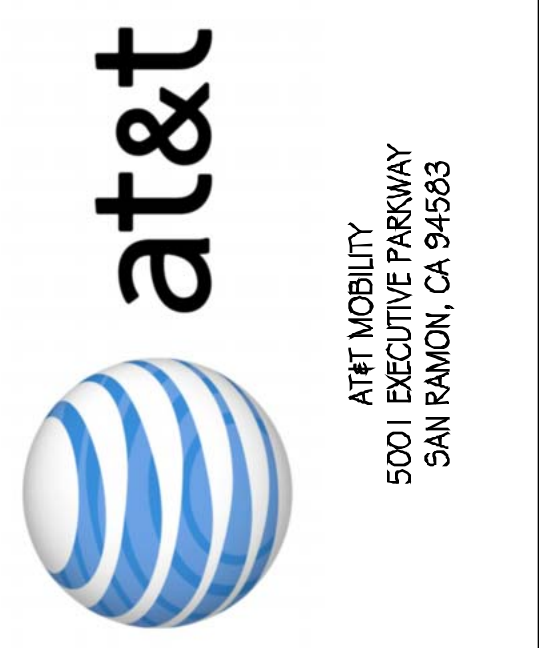
**3 RRU MOUNTING DETAIL**  
1" = 1'



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



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



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DATE: 07/25/19  
SHEET TITLE:

DETAILS  
SHEET NUMBER  
**A-6**

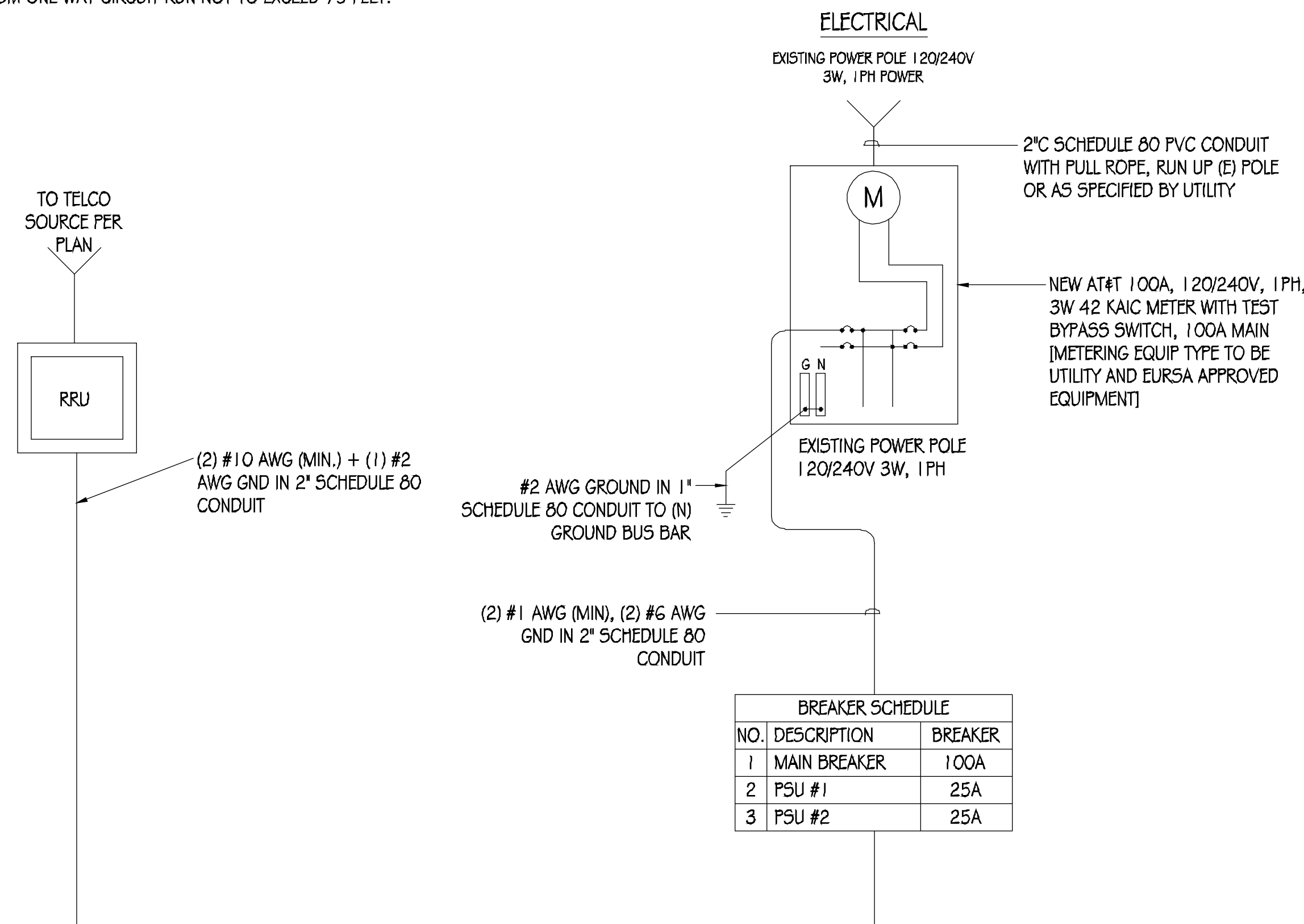


**GENERAL ELECTRICAL NOTES:**

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:**

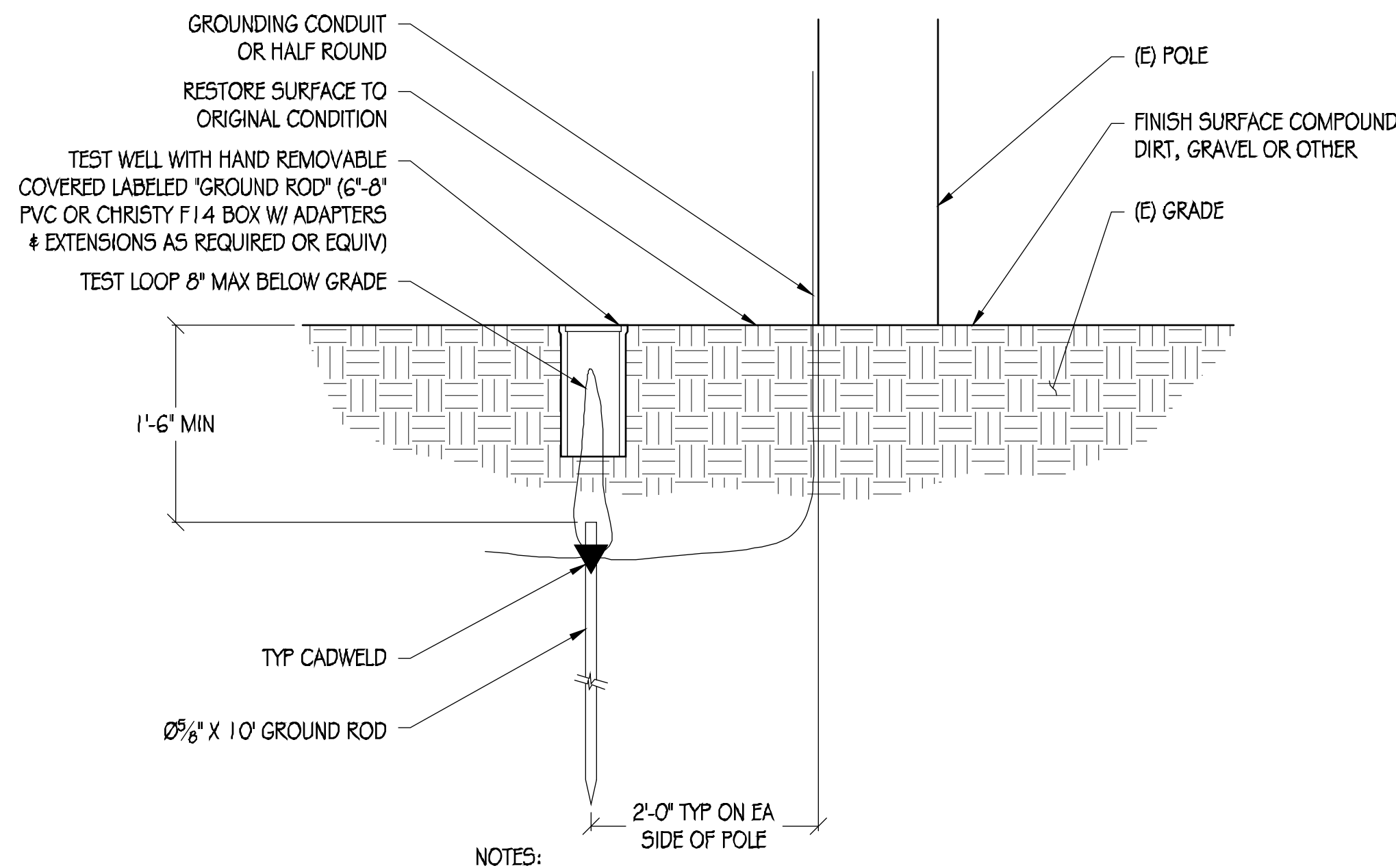
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE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



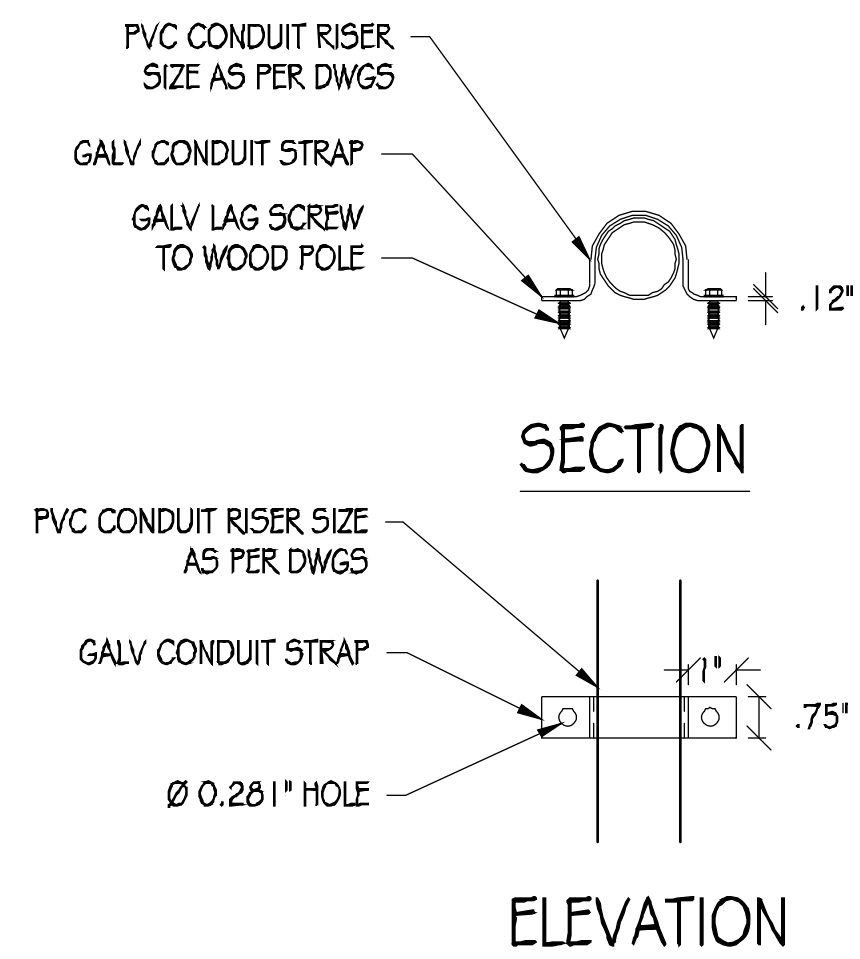
**SINGLE-LINE DIAGRAM**

**LOAD SCHEDULE**

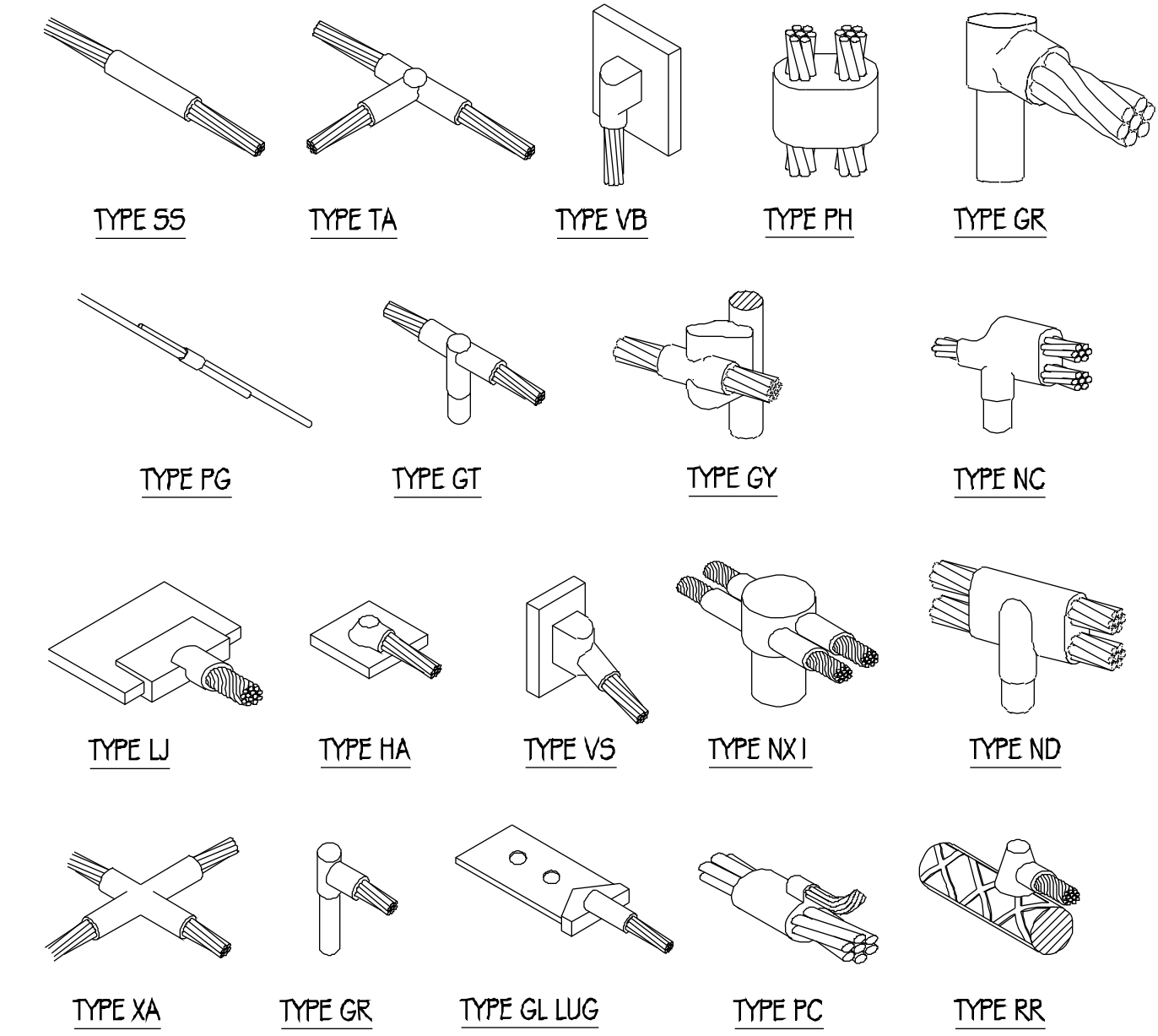
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	HW
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A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



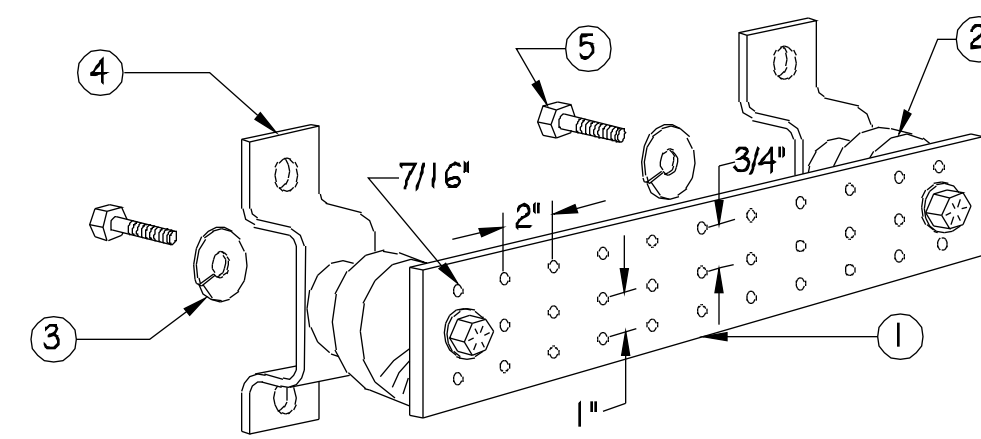
**1** NTS  
**POLE GROUNDING DETAIL**



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



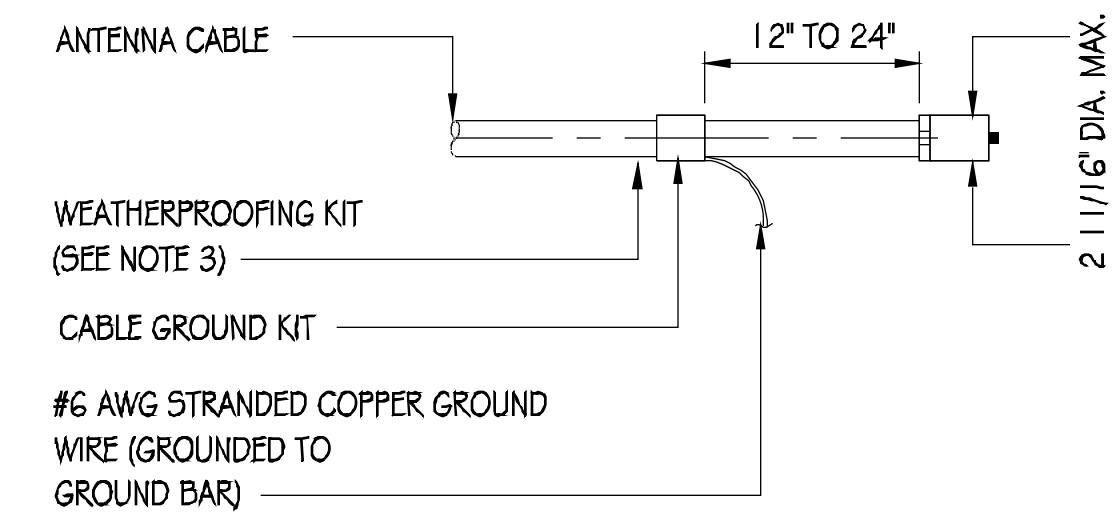
**3** NTS  
**EXOTHERMIC WELD DETAILS**



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



**NOTES:**

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

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



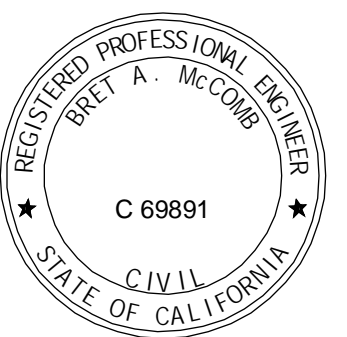
AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



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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	06/08/18	CD 90%
	07/25/19	CD 100%

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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

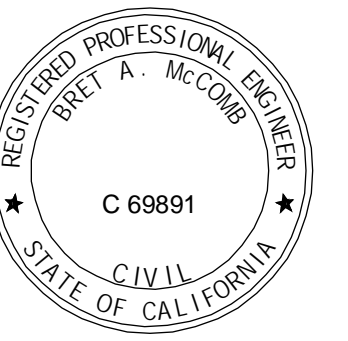


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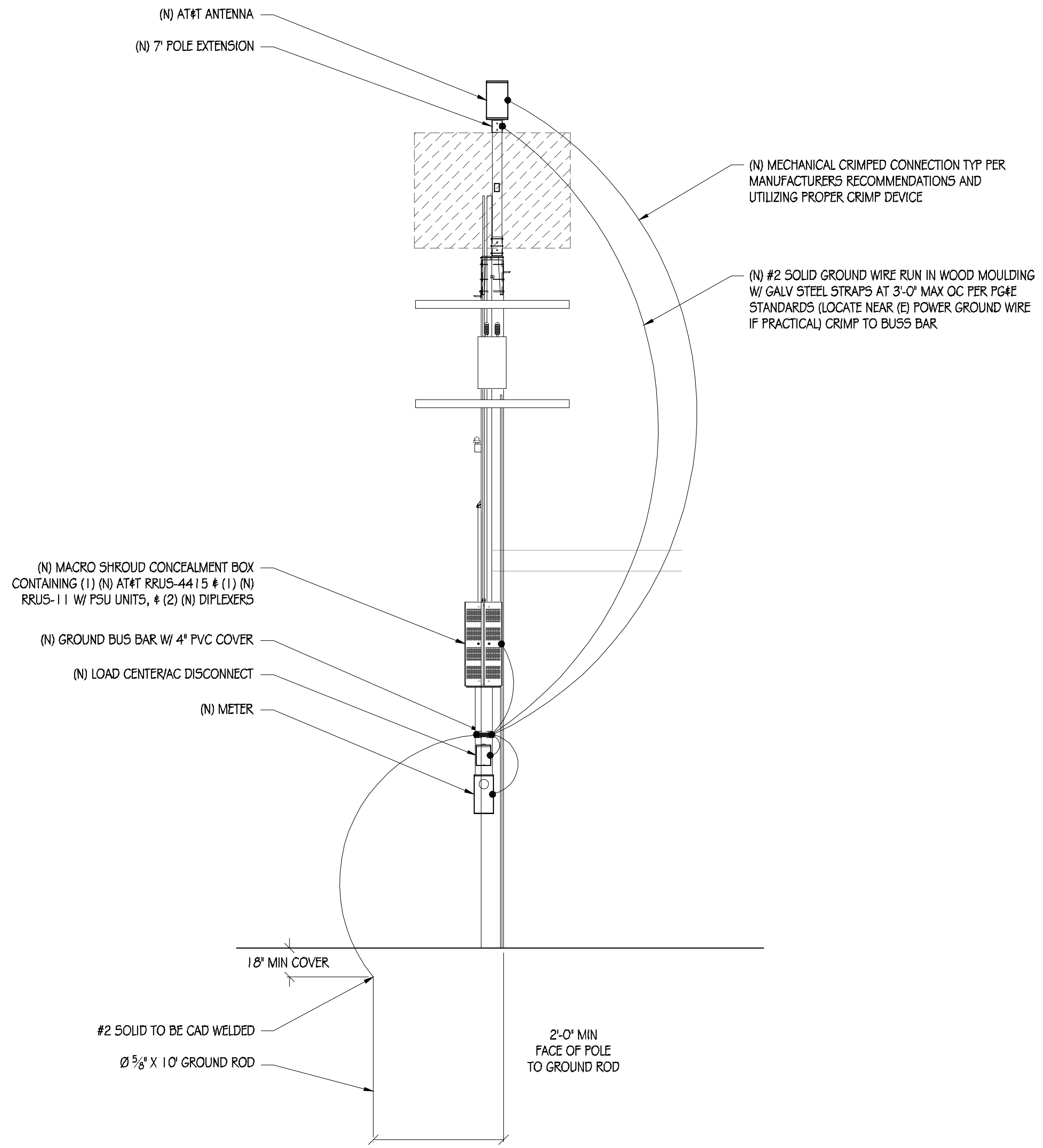
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DRAWN BY: T.J. / B.L.  
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APPROVED BY: B. McCOMB  
DATE: 07/25/19  
SHEET TITLE:

GROUNDING DIAGRAMS

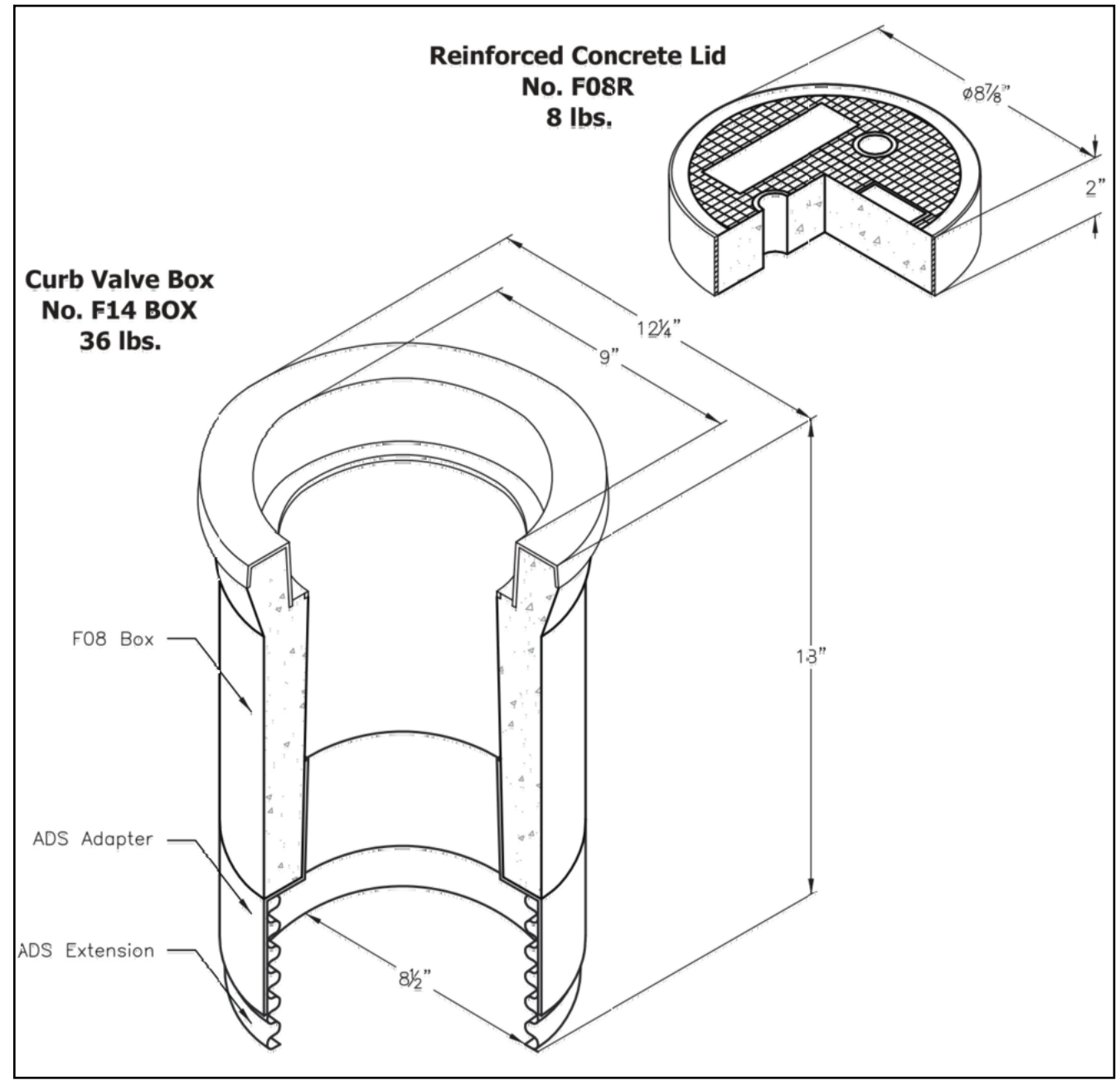
SHEET NUMBER

E-2



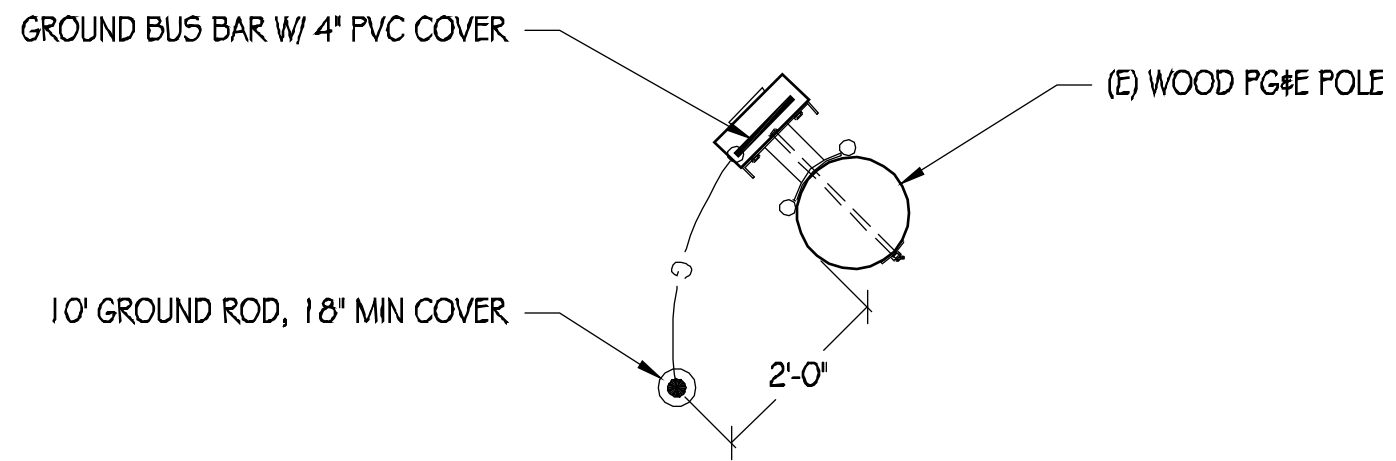
POLE GROUNDING DIAGRAM

NT5



TEST WELL DETAIL

NT5



GROUNDING PLAN

NT5