

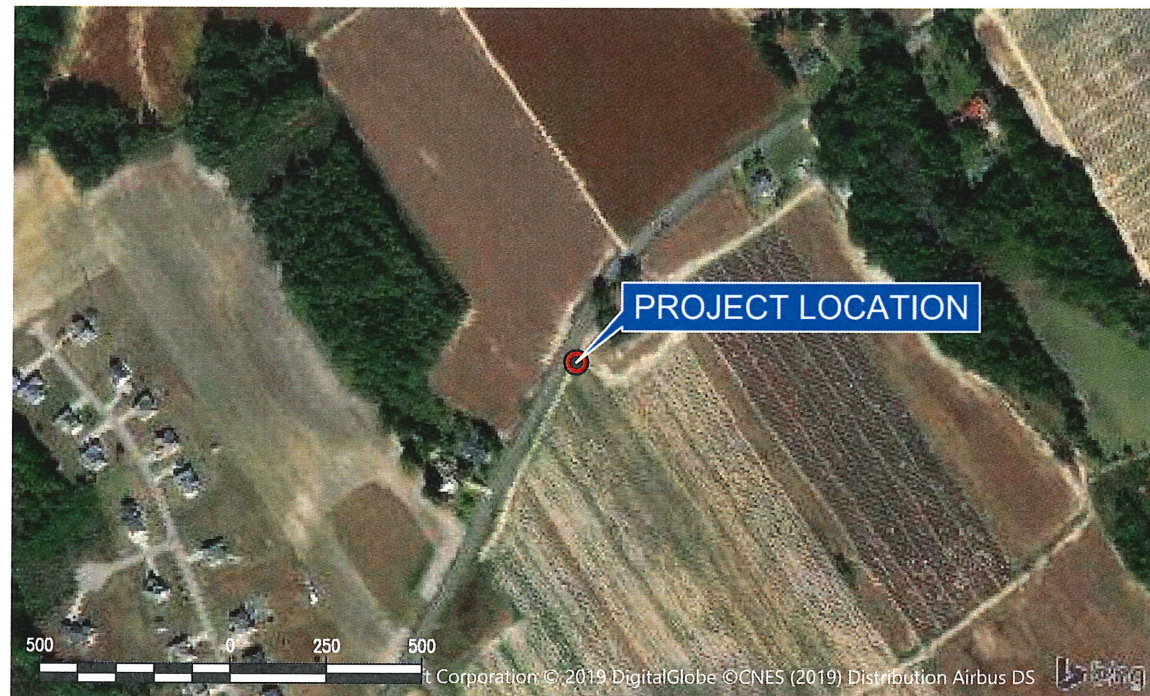
# ERWIN\_EAST\_OSC PROPOSED WOOD UTILITY POLE, RADIO EQUIPMENT, AND ANTENNA

1722 NEIGHBORS ROAD

DUNN, NC 28334

LAT: 35°22'29.78" (N) / 35.374939° (N)

LONG: 78°34'57.57" (W) / 78.582664° (W)



SATELLITE IMAGE



STREET MAP

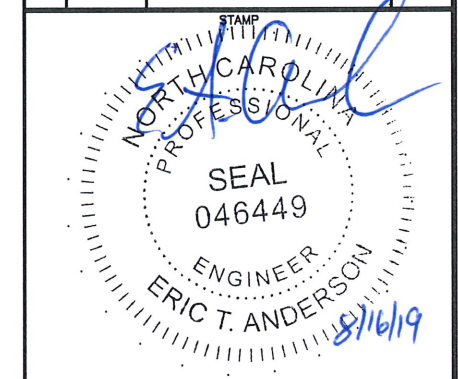
CONSTRUCTION DRAWING

PREPARED FOR:



SUBMITTALS

REV	DATE	ISSUED FOR	DRAFTER
1	6/20/19	INITIAL ISSUE	KSB
2	7/29/19	POWER ROUTE ADDITION	EHD
3	8/16/19	POWER ROUTE REVISION	EHD



TEMSCO, P.C.



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ERWIN\_EAST\_OSC  
1722 NEIGHBORS ROAD  
DUNN, NC 28334  
HARNETT COUNTY

SHEET TITLE

TITLE SHEET

DRAFTED BY:	APPROVED BY:	SHEET:	REV
KSB	PZK	CD-1	1

PROJECT SUMMARY	
SITE NAME:	ERWIN_EAST_OSC
POLE NUMBER:	SQF NC 0196
SITE ADDRESS:	1722 NEIGHBORS ROAD DUNN, NC 28334 HARNETT COUNTY
STRUCTURE OWNER:	SQF, LLC
SERVICE TERRITORY:	ELE - DUKE ENERGY TEL - CENTURYLINK, INC.
APPLICANT:	U.S CELLULAR/SQF
ROW OWNER:	STATE
MAP/BLOCK/LOT	021528 0064 02
TAX MAP ADDRESS:	N/A
STRUCTURE TYPE:	PROPOSED WOOD UTILITY POLE

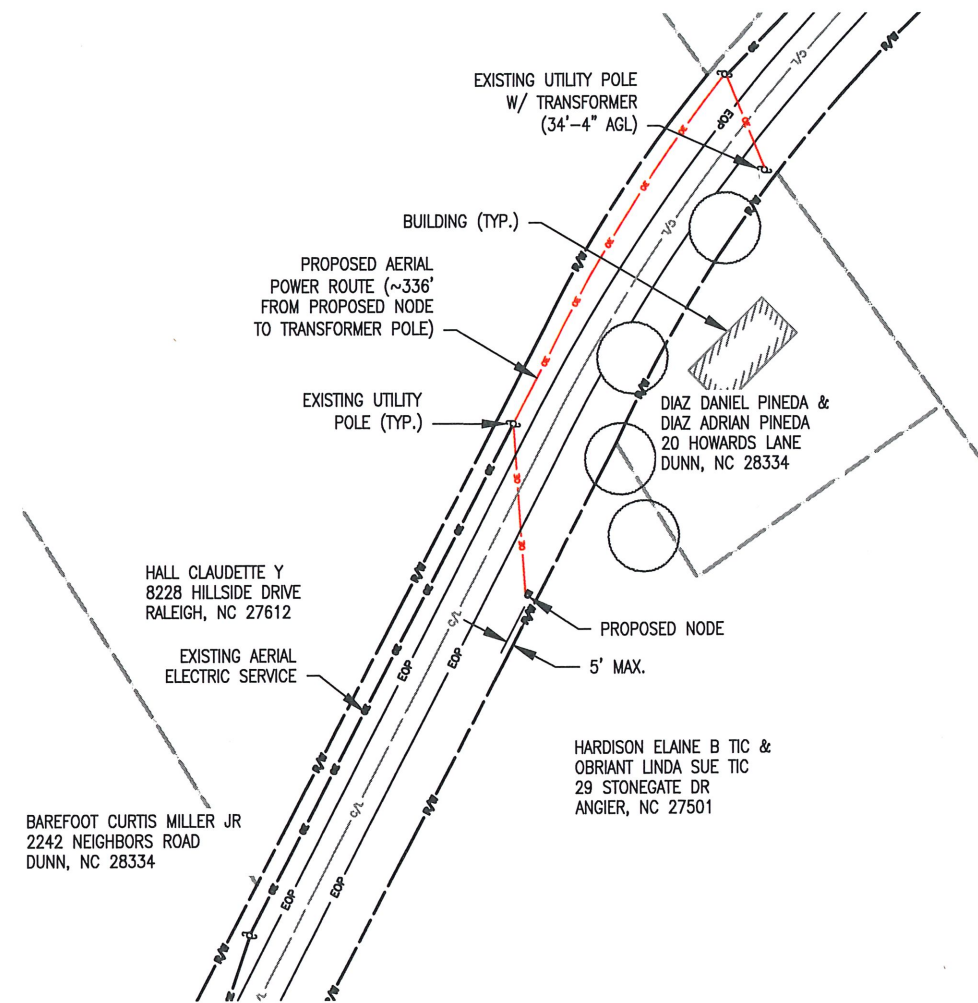
SHEET INDEX	
SHEET NUMBER	DESCRIPTION
CD-1	TITLE SHEET
CD-2	GENERAL NOTES AND ROW MAP
CD-3	POLE ELEVATION AND ORIENTATION
CD-4	POLE GROUNDING AND WIRING
CD-5	EQUIPMENT DETAILS

**GENERAL NOTES:**

1. ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREIN WAS DETERMINED BY ENGINEER FROM SURFACE EVIDENCE AND PLANS ON RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD BY CONTRACTOR PRIOR TO COMMENCEMENT OF ALL SITE WORK. CONTRACTOR SHALL CALL DIGSAFE A MINIMUM OF 72 HOURS PRIOR TO PLANNED CONSTRUCTION ACTIVITY.
2. ALL WORK SHALL BE COMPLETED BY CONTRACTOR IN ACCORDANCE WITH ALL GUIDELINES AND REGULATIONS OUTLINED IN WORK PERMITS FURNISHED BY ENGINEER.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NESC {LATEST EDITION}, AND ALL LOCAL BUILDING CODES AND STANDARDS.
4. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR TO COMPLETE ELECTRICAL SYSTEMS SHOWN ON THESE PLANS AS SPECIFIED HEREIN. THE INTENT OF THESE SPECIFICATIONS AND CONTRACT DRAWINGS IS TO PROVIDE DETAILS OF THE VARIOUS SYSTEMS DESCRIBED HEREIN AND INDICATED ON THESE DRAWINGS. ANY LISTING OR INDICATION OF ITEMS FURNISHED OR WORK TO BE PERFORMED SHALL NOT BE COMPLETE IN ITSELF AND SHALL NOT LIMIT THE GENERAL REQUIREMENTS TO FURNISH AND INSTALL EQUIPMENT, ACCESSORIES, CONTROLS, ETC., TO COMPLETE THE CONTRACT IN A SUBSTANTIAL AND FULLY FUNCTIONAL MANNER.
5. THE CONTRACTOR SHALL VISIT THE SITE WITH PLANS AND SPECIFICATIONS IN HAND AND SHALL BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS UNDER WHICH CONSTRUCTION ACTIVITIES WILL BE PERFORMED. THE CONTRACTOR SHALL CONFIRM PRIOR TO COMMENCING WORK THAT SUCH EXAMINATION HAS BEEN MADE AND DIFFICULTIES, IF ANY, NOTED AND REPORTED TO THE ENGINEER. CLAIMS FOR EXTRA COST OF LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN WILL NOT BE RECOGNIZED.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND/OR ERECTION OF ANY MATERIALS OR EQUIPMENT. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
7. THE CONTRACTOR SHALL CLEAN AND REMOVE DEBRIS AND SEDIMENT DEPOSITED ON PUBLIC STREETS, SIDEWALKS, ADJACENT AREAS, OR OTHER PUBLIC WAYS DUE TO ANY CONSTRUCTION ACTIVITY IN A TIMELY MANNER.
8. CONTRACTOR SHALL INCORPORATE PROVISIONS (AS NECESSARY) IN CONSTRUCTION TO PROTECT EXISTING STRUCTURES, PHYSICAL FEATURES, AND MAINTAIN SITE STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE ALL AREAS TO ORIGINAL CONDITION AND AS DIRECTED BY PLANS.
9. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION FROM APPROVED PLANS NOT AUTHORIZED BY THE ENGINEER.
10. DETAILS SHOWN ARE INTENDED TO SHOW END RESULT BASED ON ENGINEERING DESIGN. ANY MODIFICATION TO SUIT FIELD DIMENSIONS AND/OR CONDITIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY WORK.
11. BEFORE THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MATERIALS, REPAIR OR REPLACE PRIVATE OR PUBLIC PROPERTY WHICH MAY HAVE BEEN DAMAGED OR DESTROYED DURING CONSTRUCTION, CLEAN ALL AREAS WITHIN AND ADJACENT TO THE PROJECT WHICH HAD BEEN OBSTRUCTED BY HIS/HER OPERATIONS, AND LEAVE THE PROJECT SITE NEAT AND ACCEPTABLE TO THE ENGINEER.
12. ASSESSMENTS OF ENVIRONMENTAL IMPACTS DETERMINED BY ANY AUTHORITY HAVING JURISDICTION (A.H.J.) WILL BE PERFORMED BY OTHERS.
13. UNLESS OTHERWISE SPECIFIED, COORDINATE AND ELEVATION INFORMATION ARE TAKEN FROM GOOGLE EARTH AND NO SURVEY HAS BEEN COMPLETED.

**MATERIAL NOTES:**

14. ALL EQUIPMENT, CONDUCTORS, AND DEVICES SHALL COMPLY WITH NESC {LATEST EDITION} REQUIREMENTS AND LOCAL UTILITY SPECIFICATIONS.
15. ALL EQUIPMENT, RACEWAYS, CABLES, AND CONDUCTORS SHALL BE PROPERLY ANCHORED TO THE UTILITY POLE OR LIGHTING FIXTURE PER NESC REQUIREMENTS AND LOCAL UTILITY SPECIFICATIONS.
16. ALL GROUNDING SHALL BE IN ACCORDANCE WITH NESC REQUIREMENTS AND LOCAL UTILITY SPECIFICATIONS. GROUND CONDUCTORS SHALL NOT BE SMALLER THAN #6 AWG COPPER, UNLESS OTHERWISE SPECIFIED.
17. BOLT HOLES SHALL BE PUNCHED OR DRILLED. FLAME CUT HOLES ARE NOT ACCEPTABLE.
18. INSTALL ALL EQUIPMENT AND DEVICES PLUMB AND LEVEL, ACCURATELY FITTED, AND FREE FROM DISTORTIONS AND/OR DEFECTS.
19. NOTIFY THE ENGINEER PRIOR TO FIELD CUTTING OR MODIFYING APPROVED EQUIPMENT.
20. ALL BOLTS, ANCHORS, AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 - ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE.
21. ALL ELECTRICAL EQUIPMENT SHALL BE HOUSED IN NEMA 3R ENCLOSURES.
22. WHEN APPLICABLE, ALL PROPOSED NEW WOOD UTILITY POLES SHALL BE CONSTRUCTION GRADE C OR BETTER.
23. ALL PROPOSED NEW WOOD UTILITY POLES SHALL BE CLASS 2, UNLESS OTHERWISE SPECIFIED.



**PROPOSED NODE LOCATION PLAN**  
NOT TO SCALE

**NOTES:**

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE AND BASED UPON AERIAL IMAGES.
2. PROPOSED POWER ROUTE IS PRELIMINARY PENDING POWER COMPANY'S DIRECTION AND IS SUBJECT TO CHANGE.

**LEGEND**

AERIAL ELECTRICAL SERVICE	— OE —	UTILITY POLE	⊗
RIGHT-OF-WAY	— RW —	TREE/VEGETATION	○
PARCELS	— P/L —		
CENTERLINE OF ROAD	— CL —		
EDGE-OF-PAVEMENT	— EOP —		
SIDEWALK	— SW —		
GRASS	— GR —		
DIRT	— DT —		

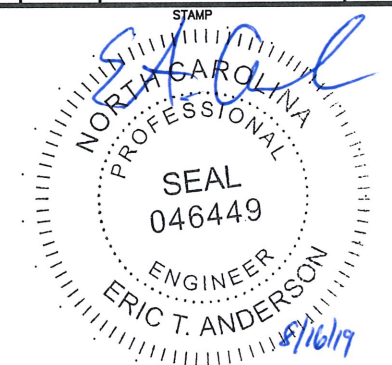
**CONSTRUCTION DRAWING**

PREPARED FOR:



**SUBMITTALS**

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2	7/29/19	POWER ROUTE ADDITION	EHD
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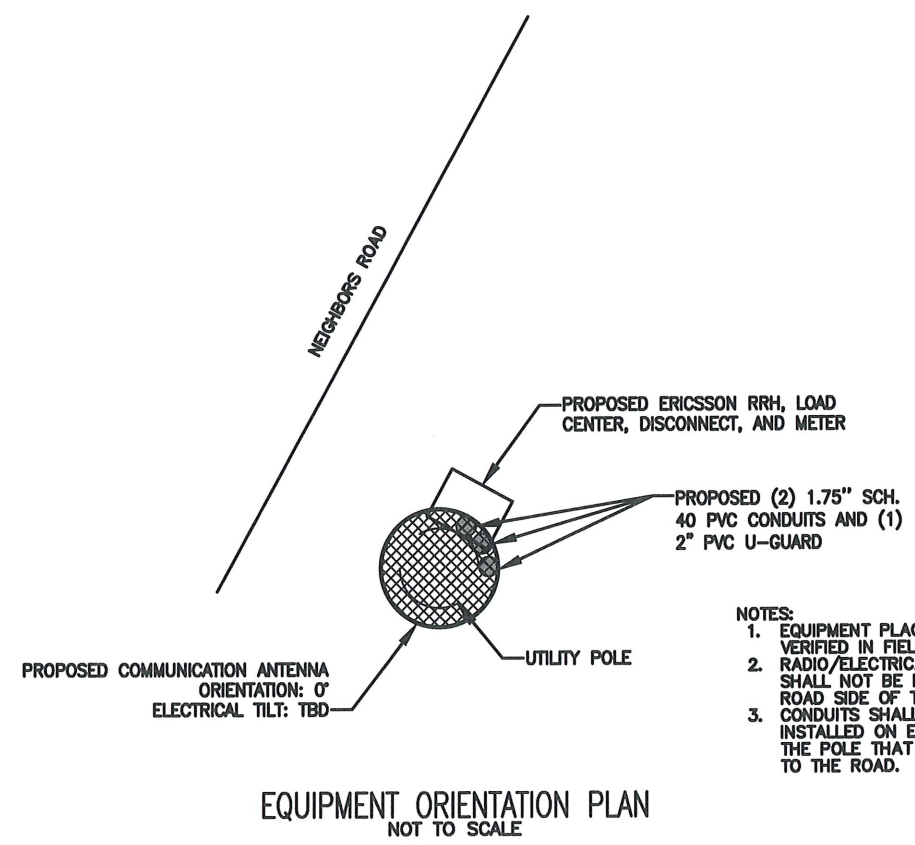
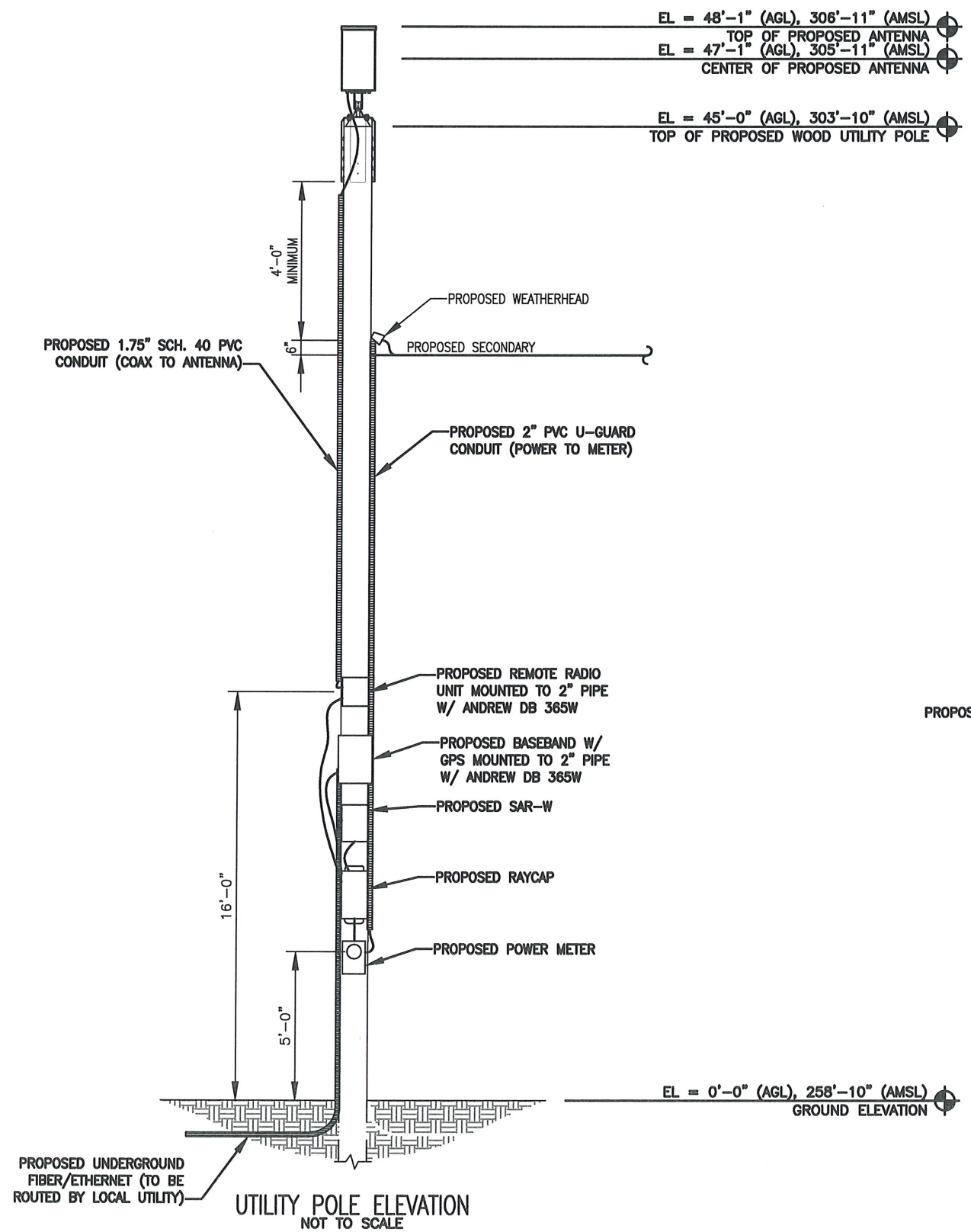


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**SHEET TITLE**  
GENERAL NOTES  
AND ROW MAP

DRAFTED BY:	APPROVED BY:	SHEET:	REV
KSB	PZK	CD-2	1



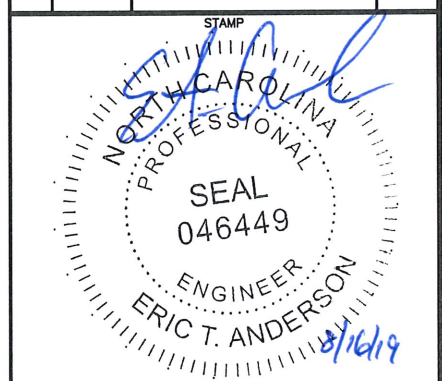
- NOTES:
1. EQUIPMENT PLACEMENT TO BE VERIFIED IN FIELD.
  2. RADIO/ELECTRICAL EQUIPMENT SHALL NOT BE INSTALLED ON THE ROAD SIDE OF THE POLE.
  3. CONDUITS SHALL NOT BE INSTALLED ON EITHER FACE OF THE POLE THAT IS PERPENDICULAR TO THE ROAD.

CONSTRUCTION DRAWING



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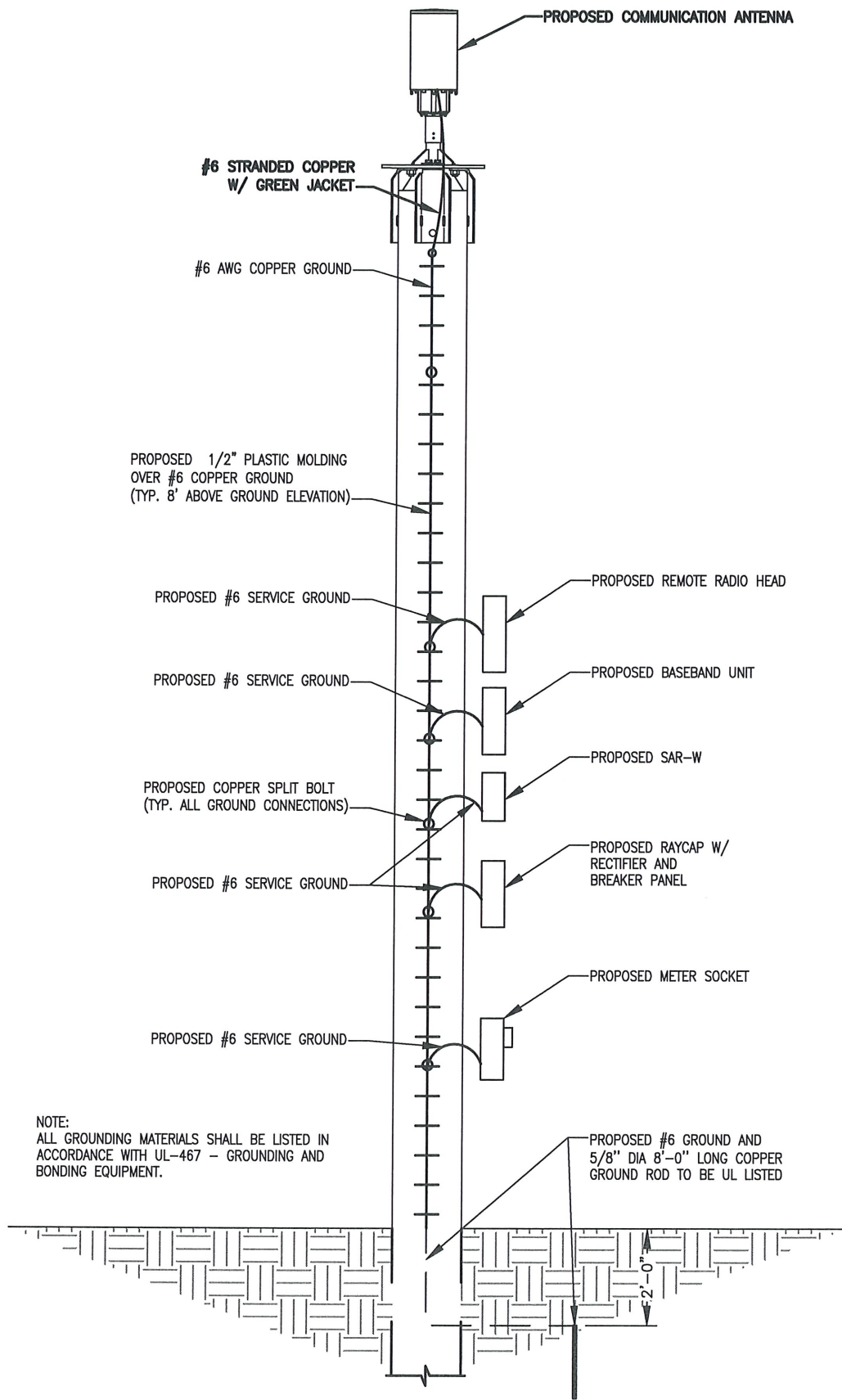
TEMSCO, P.C.



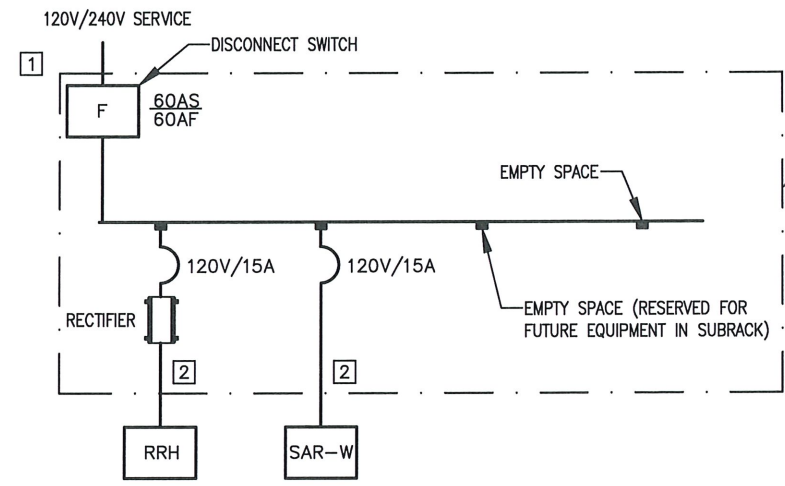
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SHEET TITLE  
 POLE ELEVATION  
 AND ORIENTATION

DRAFTED BY:	APPROVED BY:	SHEET:	REV
KSB	PZK	CD-3	1



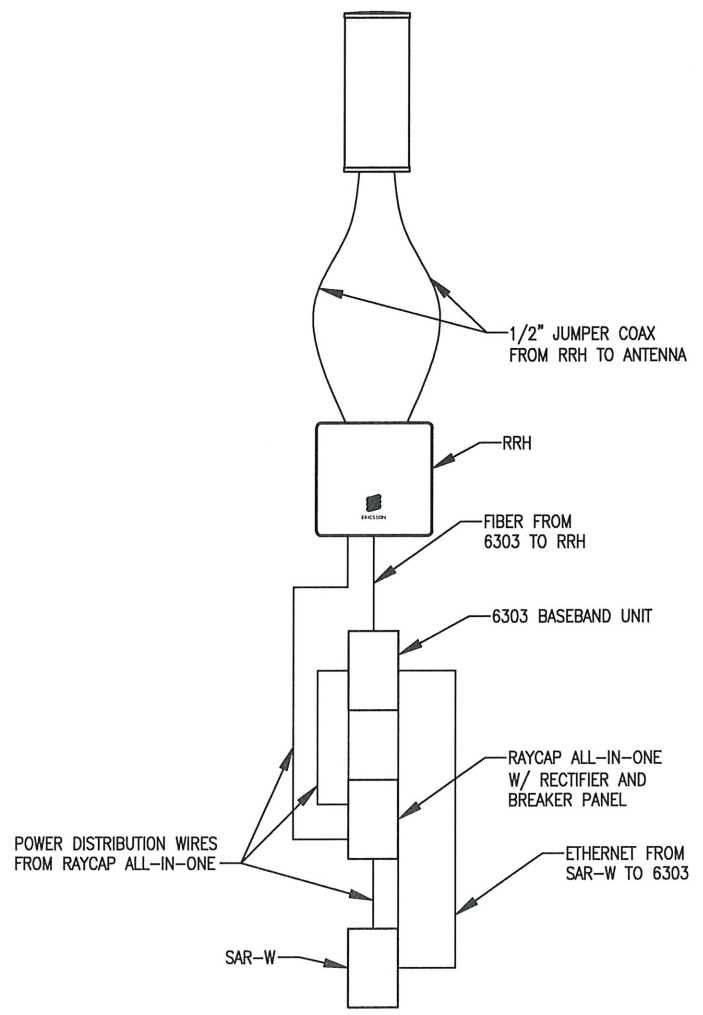
UTILITY POLE GROUNDING DETAIL  
NOT TO SCALE



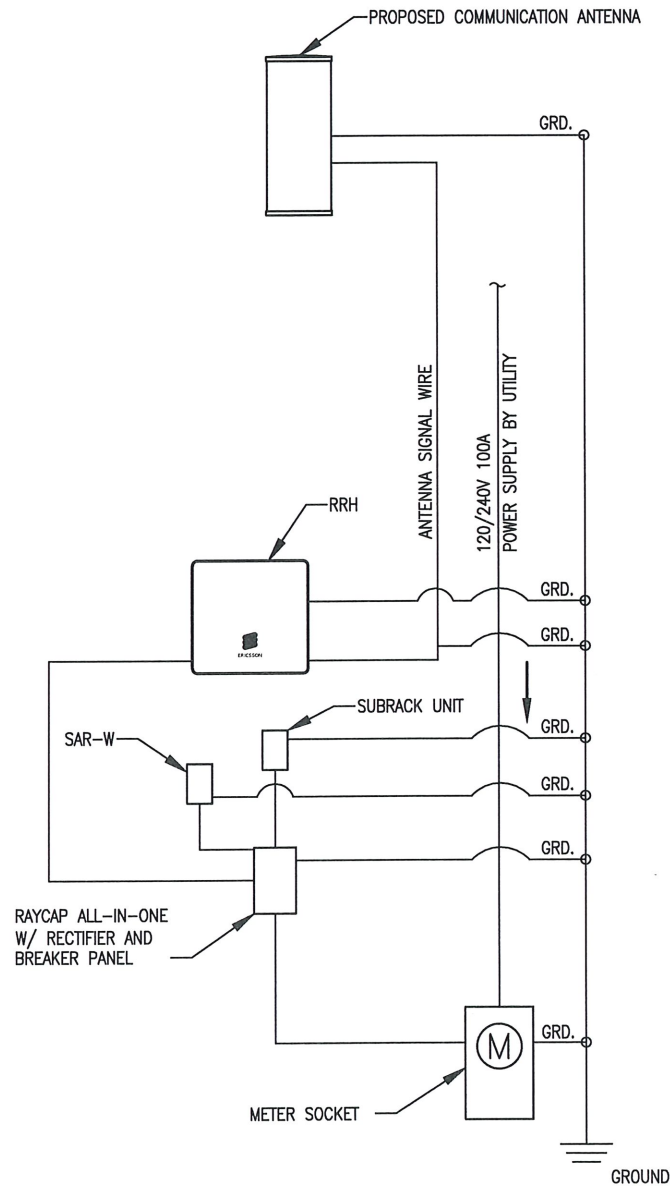
ONE LINE DIAGRAM  
NOT TO SCALE

CABLE SCHEDULE:

1	(2) #3 AWG THHN & (1) #4 GROUND REFER TO UTILITY POLE ELEVATION FOR CONDUIT SIZES
2	(2) #14 AWG & (1) #6 GROUND REFER TO UTILITY POLE ELEVATION FOR CONDUIT SIZES



WIRING AND PLUMBING DIAGRAM  
NOT TO SCALE



GENERAL WIRING DIAGRAM  
NOT TO SCALE

NOTE:  
ALL GROUNDING MATERIALS SHALL BE LISTED IN ACCORDANCE WITH UL-467 - GROUNDING AND BONDING EQUIPMENT.

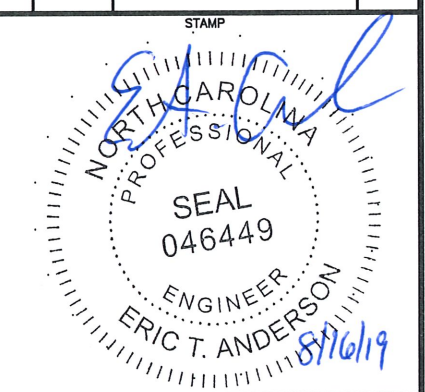
PROPOSED #6 GROUND AND 5/8\"/>

CONSTRUCTION DRAWING



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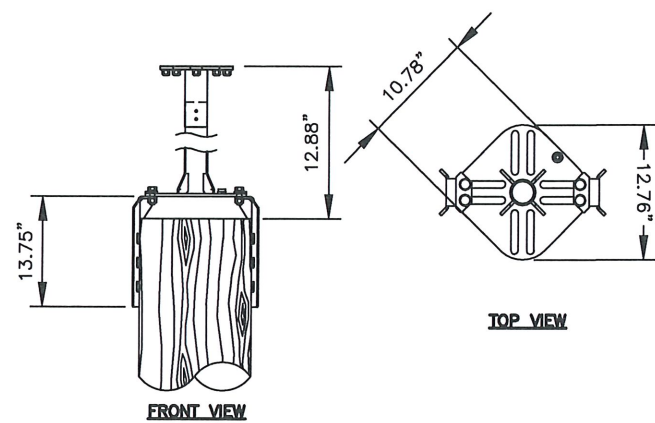


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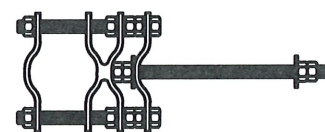
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SHEET TITLE  
POLE GROUNDING  
AND WIRING

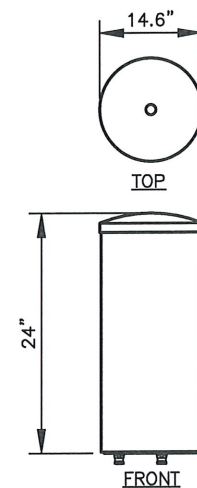
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KSB	PZK	CD-4	1



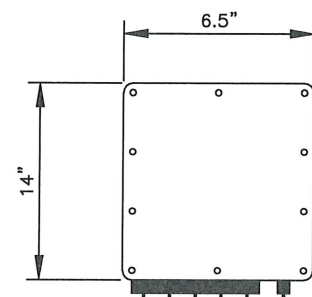
ANTENNA MOUNTING DETAILS  
 WIDE DIA. POLE TOP MOUNT  
 CONCEALAB P/N: 007951-4  
 AMPHENOL ANTENNA SLEEVE  
 P/N: 007941-1-4  
 NOT TO SCALE



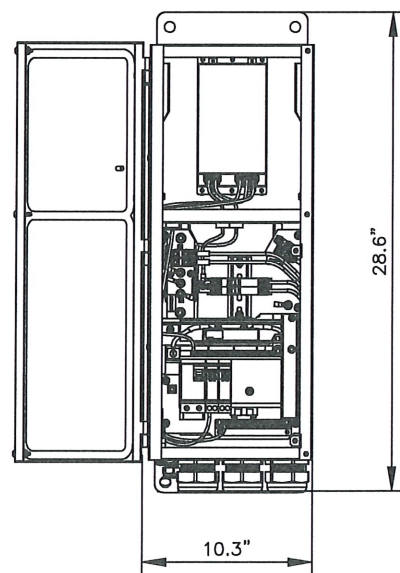
ANDREW PIPE MOUNT  
 P/N: DB 365W  
 NOT TO SCALE



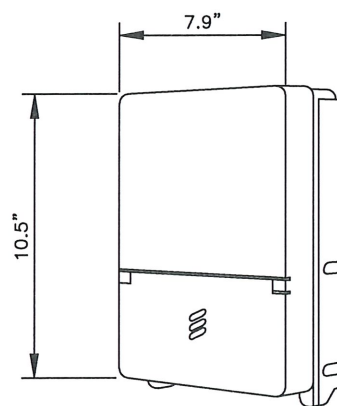
AMPHENOL ANTENNA DETAILS  
 M/N: CUT360XF0600s0BR  
 ORIENTATION: 0°  
 ELECTRICAL TILT: TBD  
 NOT TO SCALE



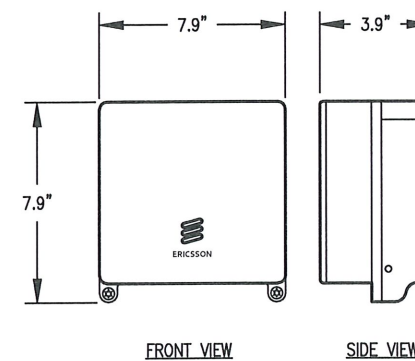
SAR-W  
 NOKIA 7705  
 NOT TO SCALE



RAYCAP "ALL IN ONE"  
 P/N: RUSAC-1440-P-240-1  
 NOT TO SCALE



ERICSSON  
 BASEBAND 6303  
 NOT TO SCALE



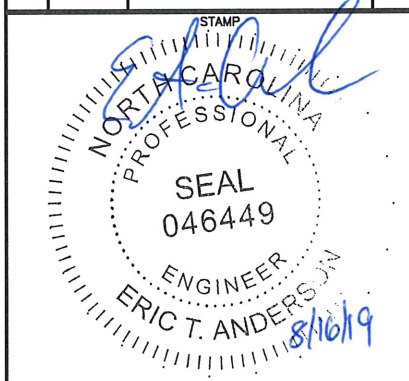
ERICSSON 4449 RADIO DETAILS  
 700/850 RRH 4X40W  
 NOT TO SCALE

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KSB	PZK	CD-5	1