



**AT&T SITE NUMBER:** SOH3615  
**AT&T SITE NAME:** SHIER RINGS ROAD  
**AT&T FA CODE:** 10070871  
**AT&T IWM NUMBER:** WSOWP0044194, WSOWP0043998, WSOWP0045093, WSOWP0044599, WSOWP0045110, WSOWP0044717, WSOWP0044319, WSOWP0043563, WSOWP0044980

**SITE ADDRESS:** 6430 SHIER-RINGS ROAD  
**DUBLIN, OH 43017**  
**COUNTY:** FRANKLIN  
**TOWER HEIGHT:** 130'  
**TOWER TYPE:** MONOPOLE



Glaus, Pyle, Schomer, Burns & DeHaven, Inc.  
 520 South Main Street, Suite 2531  
 Akron, OH 44311  
 330.572.2100 Fax 330.572.2101

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**ERICSSON**

AT&T SITE NUMBER:

**SOH3615**

6430 SHIER-RINGS ROAD  
 DUBLIN, OH 43017

EXISTING 130'  
 MONOPOLE

GPD JOB #: 2024723.16.14693.01

ISSUED FOR:

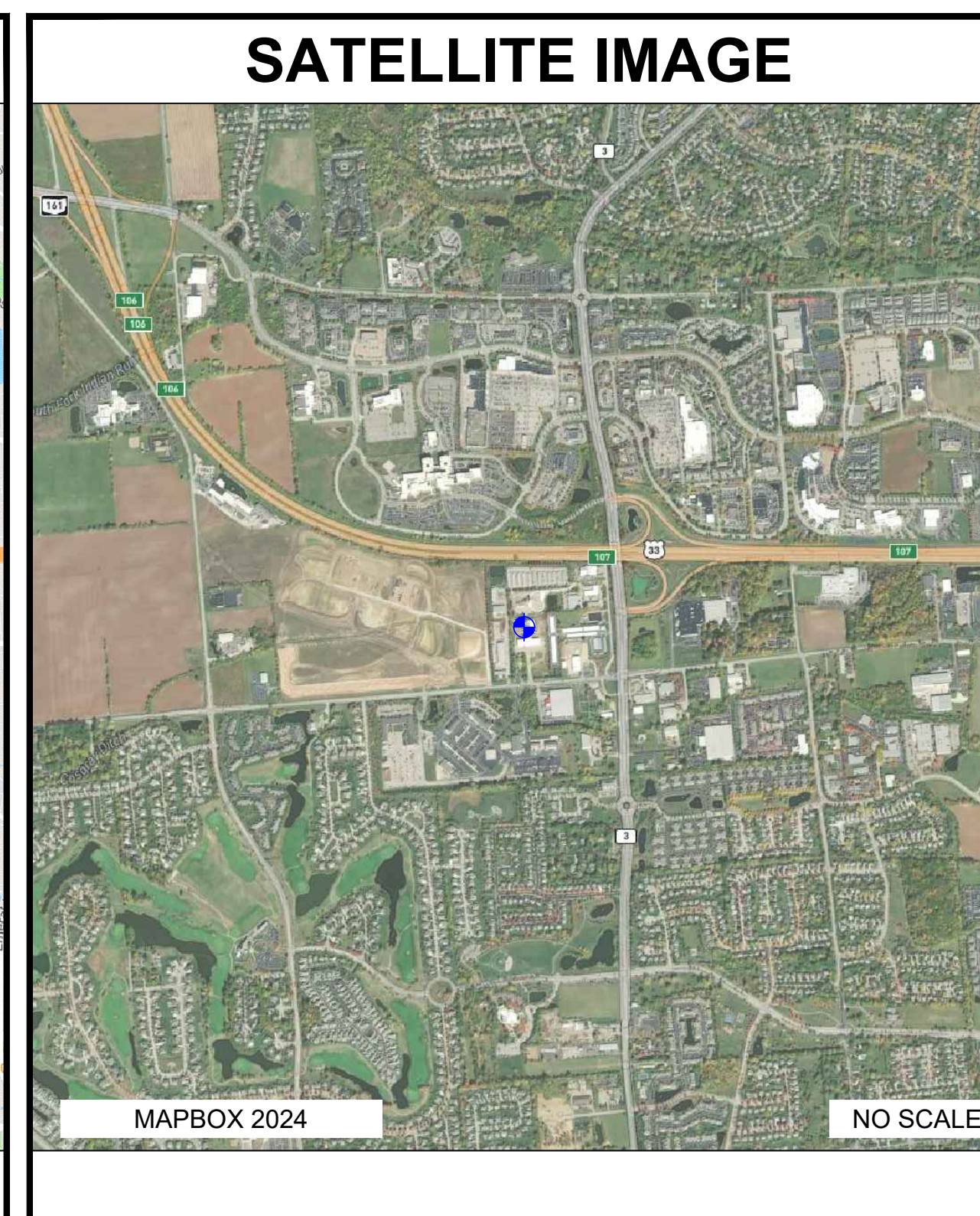
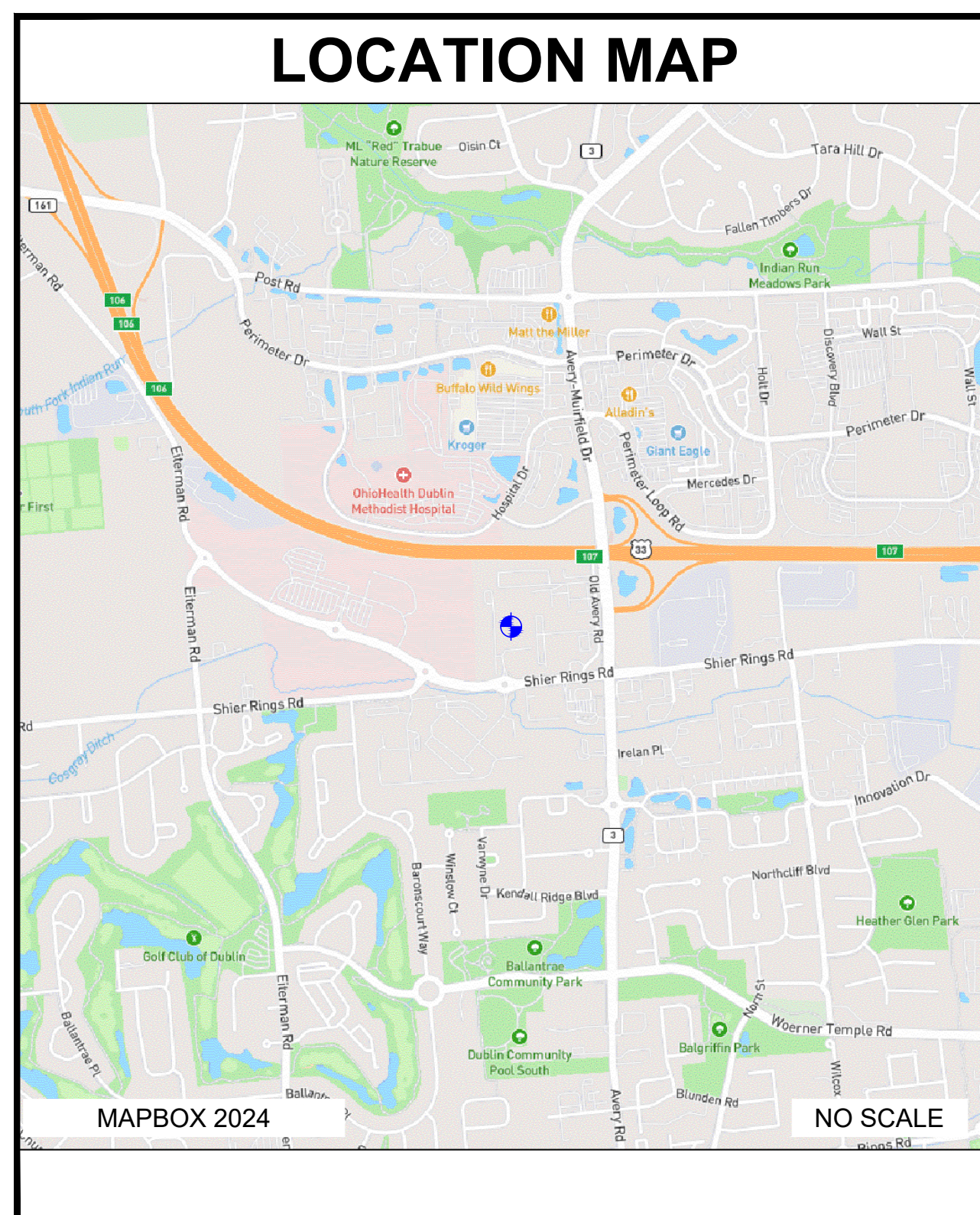
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	8/30/2024	BAB	90% CDs FOR REVIEW	ES
0	10/29/2024	CRM	FOR CONSTRUCTION	ES

**PROJECT: AT&T LTE 1C RRH SWAP**

SITE INFORMATION	
AT&T SITE NAME:	SHIER RINGS ROAD
SITE ADDRESS:	6430 SHIER-RINGS ROAD DUBLIN, OH 43017
COUNTY:	FRANKLIN
MAP/PARCEL #:	273-000317-00
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	40° 05' 49.00"
LONGITUDE:	-83° 09' 44.99"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	+/- 929' (GOOGLE EARTH)
CURRENT ZONING:	N/A
JURISDICTION:	WASHINGTON TOWNSHIP
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	BAKER WILLIAM L 11547 E PIKE RD CAMBRIDGE, OH 43725
CARRIER/APPLICANT:	AT&T MOBILITY 8372 EAST BROAD STREET REYNOLDSBURG, OH 43068
TOWER OWNER:	AMERICAN TOWER
ELECTRIC PROVIDER:	COLUMBUS SOUTHERN POWER CO (800) 672-2231
TELCO PROVIDER:	TBD

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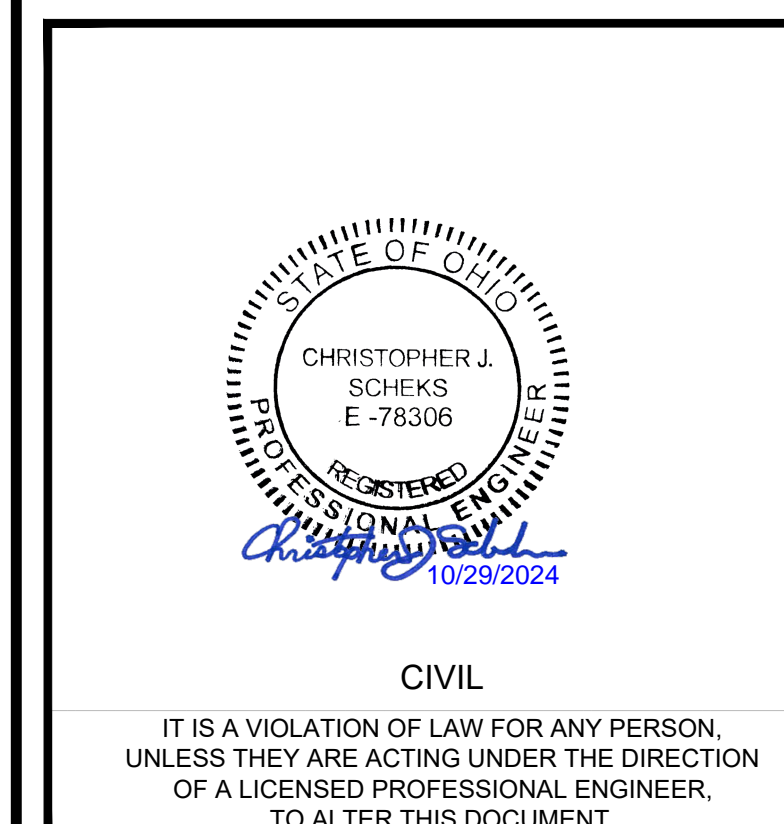
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11x17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



PROJECT DESCRIPTION	
THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.	
<b>TOWER SCOPE OF WORK</b> <ul style="list-style-type: none"> <li>REMOVE (3) SBNHH-1D65C ANTENNAS</li> <li>REMOVE (3) AIRSCALE MAA 64T64R 192AE N77 200W AEGK ANTENNAS</li> <li>REMOVE (3) RRH4X25-WCS-4R RRHS</li> <li>REMOVE (3) AIRSCALERRH 4T4R B5160W AHCA RRHS</li> <li>REMOVE (3) AIRSCALEDDUAL RRH4T4R B2566320W AHFIB RRHS</li> <li>REMOVE (3) AIRSCALEDDUAL RRH4T4R B1214320W AHLBA RRHS</li> <li>REMOVE (3) DUAL RRU MOUNTS</li> <li>RELOCATE (6) NNH4-65C-R6 ANTENNAS</li> <li>RELOCATE (2) SQUIDS</li> <li>INSTALL (3) AIR6472 B77GB77M ANTENNAS</li> <li>INSTALL (3) 4490 B5B12A RRHS</li> <li>INSTALL (3) 4890 B25666 RRHS</li> <li>INSTALL (3) 4471 B30 RRHS</li> <li>INSTALL (3) 4494 B14/B29 RRHS</li> <li>INSTALL (6) RRU PIPES</li> <li>INSTALL (6) ERICSSON DUAL RRU MOUNTS</li> </ul>	
<b>GROUND SCOPE OF WORK:</b> <ul style="list-style-type: none"> <li>REMOVE (6) LGP 13513 DIPLEXERS</li> <li>REMOVE (24) 2V BATTERIES</li> <li>REMOVE ALL NOKIA BBUS</li> <li>UPGRADE EXISTING NS 7100 48/24 POWER PLANT TO 58V WITH UPGRADE KIT</li> <li>INSTALL (9) 58V CONVERTERS</li> <li>INSTALL (1) BATTERY RACK</li> <li>INSTALL (20) 170AH BATTERIES</li> <li>INSTALL (1) 6672 BBU</li> <li>INSTALL (1) 6610 SITE CONTROLLER</li> <li>INSTALL (1) XMU</li> <li>INSTALL (1) 6601</li> <li>INSTALL (1) GPS SPLITTER</li> <li>INSTALL (1) FIBER PATCH PANEL</li> <li>INSTALL (18) NEW DC BREAKERS</li> </ul>	
<b>*POWER SCOPE OF WORK TO BE COMPLETED BY OTHERS</b> - ALL ELECTRICAL POWER WORK REQUIRED TO ACCOMPLISH THE ABOVE MENTIONED POWER SCOPE OF WORK IS TO BE PERFORMED BY ERICSSON AND IS CONSIDERED BEYOND THE SCOPE OF WORK OF THESE PLANS	

PROJECT TEAM	
A&E FIRM:	GPD GROUP GLAUS, PYLE, SCHOMER, BURNS & DEHAVEN, INC 520 SOUTH MAIN ST, SUITE 2531 AKRON, OH 44311 CONTACT: ERIC SCHNAUS, 317-295-3190

APPLICABLE CODES/REFERENCE DOCUMENTS	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
<b>CODE TYPE</b> BUILDING MECHANICAL ELECTRICAL	<b>CODE</b> 2024 OHIO BUILDING CODE 2021 IBC W/ STATE AMENDMENTS 2024 OHIO MECHANICAL CODE 2021 IMC W/ STATE AMENDMENTS 2023 NFPA 70 (NEC)
<b>REFERENCE DOCUMENTS:</b> MOUNT ANALYSIS: THE MOUNT ANALYSIS PERFORMED BY GPD GROUP GLAUS, PYLE, SCHOMER, BURNS AND DEHAVEN, INC. (PROJECT #2024723.16.14693.01 DATED 09/11/2024) FINDS THE MOUNT HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION STRUCTURAL ANALYSIS: THE TOWER STRUCTURAL ANALYSIS PERFORMED BY AMERICAN TOWER CORPORATION DATED 09/26/2024 FINDS THE TOWER HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION	
DESIGN PACKAGE BASED ON THE RFDS REVISION: RFDS-32976 DATE: 6/7/2024	
CALL OHIO ONE CALL (800) 362-2764 CALL 3 WORKING DAYS BEFORE YOU DIG!	



SHEET NUMBER:	REVISION:
<b>T-1</b>	<b>0</b>

**SITE WORK GENERAL NOTES:**

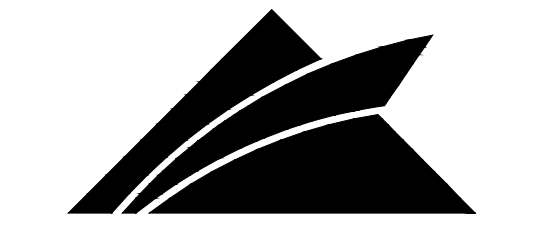
1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON ERICSSON TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
14. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSITIA 1019 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSITIA-1019 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

**GENERAL NOTES:**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR- GENERAL CONTRACTOR (CONSTRUCTION)  
 SUBCONTRACTOR- AT&T  
 CARRIER- AMERICAN TOWER  
 TOWER OWNER- ORIGINAL EQUIPMENT MANUFACTURER  
 OEM-
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR 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 AND ERICSSON.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND ERICSSON PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR 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 OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.



8372 EAST BROAD STREET  
REYNOLDSBURG, OH 43068



**GPD GROUP®**  
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.

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A	8/30/2024	BAB	90% CDs FOR REVIEW	ES
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CIVIL

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:

**T-2**

REVISION:

**0**

**STRUCTURAL STEEL NOTES:**

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8"Ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

**MASONRY NOTES:**

1. HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N. TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F<sub>m</sub>) SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

**CONCRETE AND REINFORCING STEEL NOTES:**

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  
 CONCRETE CAST AGAINST EARTH.....3 IN.  
 CONCRETE EXPOSED TO EARTH OR WEATHER:  
 #6 AND LARGER.....2 IN.  
 #5 AND SMALLER & WWF.....1 1/2 IN.  
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:  
 SLAB AND WALLS.....3/4 IN.  
 BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.



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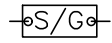
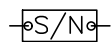
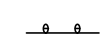






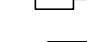


**ELECTRICAL INSTALLATION NOTES:**

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY ERICSSON.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL), LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- EQUIPMENT CABINETS, TERMINAL BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T".
- ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

**GREENFIELD GROUNDING NOTES:**

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GESS'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED, WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

**SYMBOLS:**

-  SOLID GROUND BUS BAR
-  SOLID NEUTRAL BUS BAR
-  SUPPLEMENTAL GROUND CONDUCTOR
-  2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
-  SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
-  CHEMICAL GROUND ROD
-  TEST WELL
-  DISCONNECT SWITCH
-  METER
-  EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
-  MECHANICAL CONNECTION
-  GROUNDING WIRE

NEC INSULATOR COLOR CODE		
DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	LEG 2	RED
AC NEUTRAL	N	WHITE
GROUND (EGC)	G	GREEN
VDC POS	+	*RED-POLARITY MARK AT TERMINATION
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION
240V OR 208V, 3Ø	PHASE A	BLACK
	PHASE B	RED(ORG. IF HI LEG)
	PHASE C	BLUE
480V, 3Ø	PHASE A	BROWN
	PHASE B	ORANGE OR PURPLE
	PHASE C	YELLOW

\* SEE NEC 210.5(C)(1) AND (2)



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**ERICSSON**

AT&T SITE NUMBER:

**SOH3615**

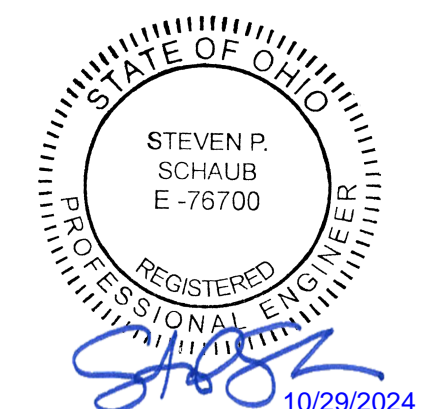
6430 SHIER-RINGS ROAD  
DUBLIN, OH 43017

EXISTING 130'  
MONOPOLE

GPD JOB #: 2024723.16.14693.01

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	8/30/2024	BAB	90% CDs FOR REVIEW	ES
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**T-4**

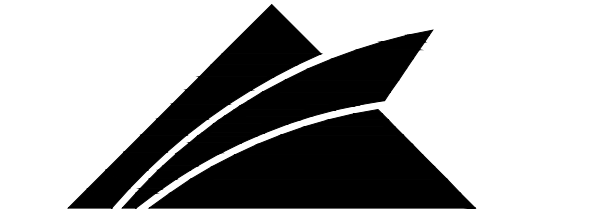
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POWER SCOPE OF WORK TO BE COMPLETED BY OTHERS  
 \*ALL ELECTRICAL POWER WORK REQUIRED TO ACCOMPLISH  
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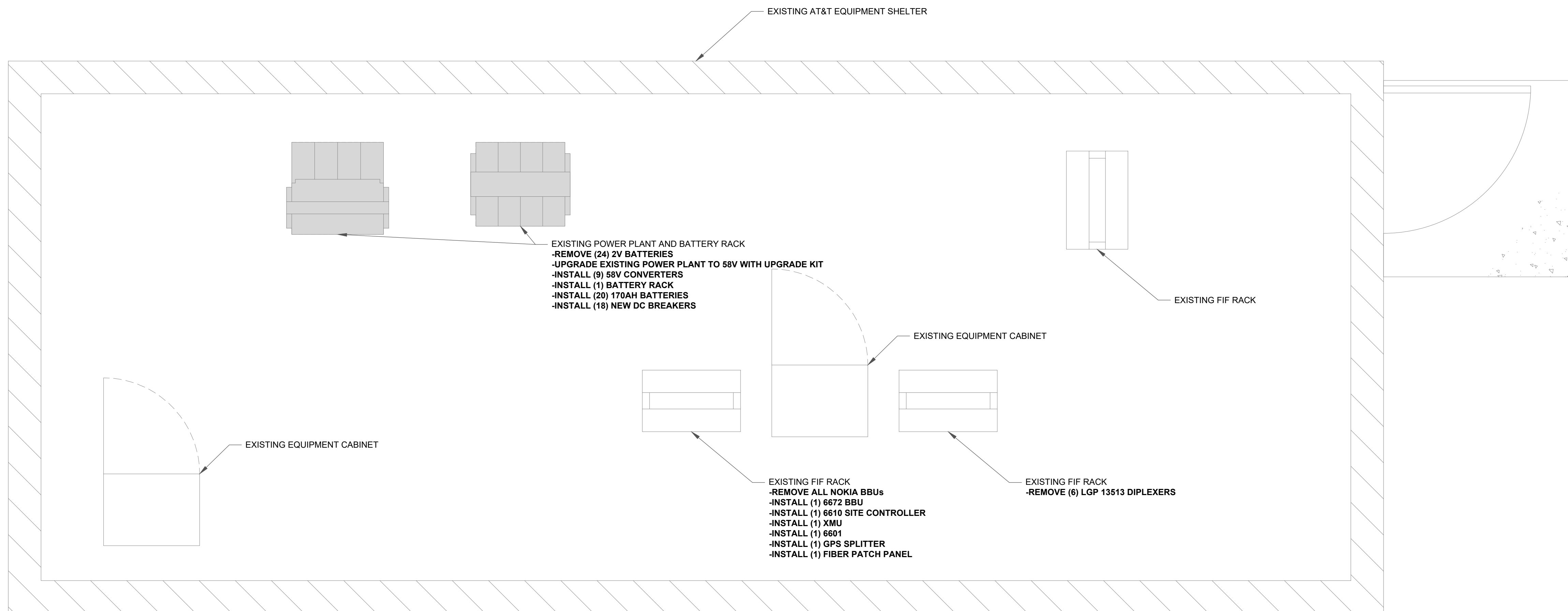
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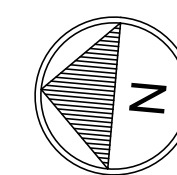
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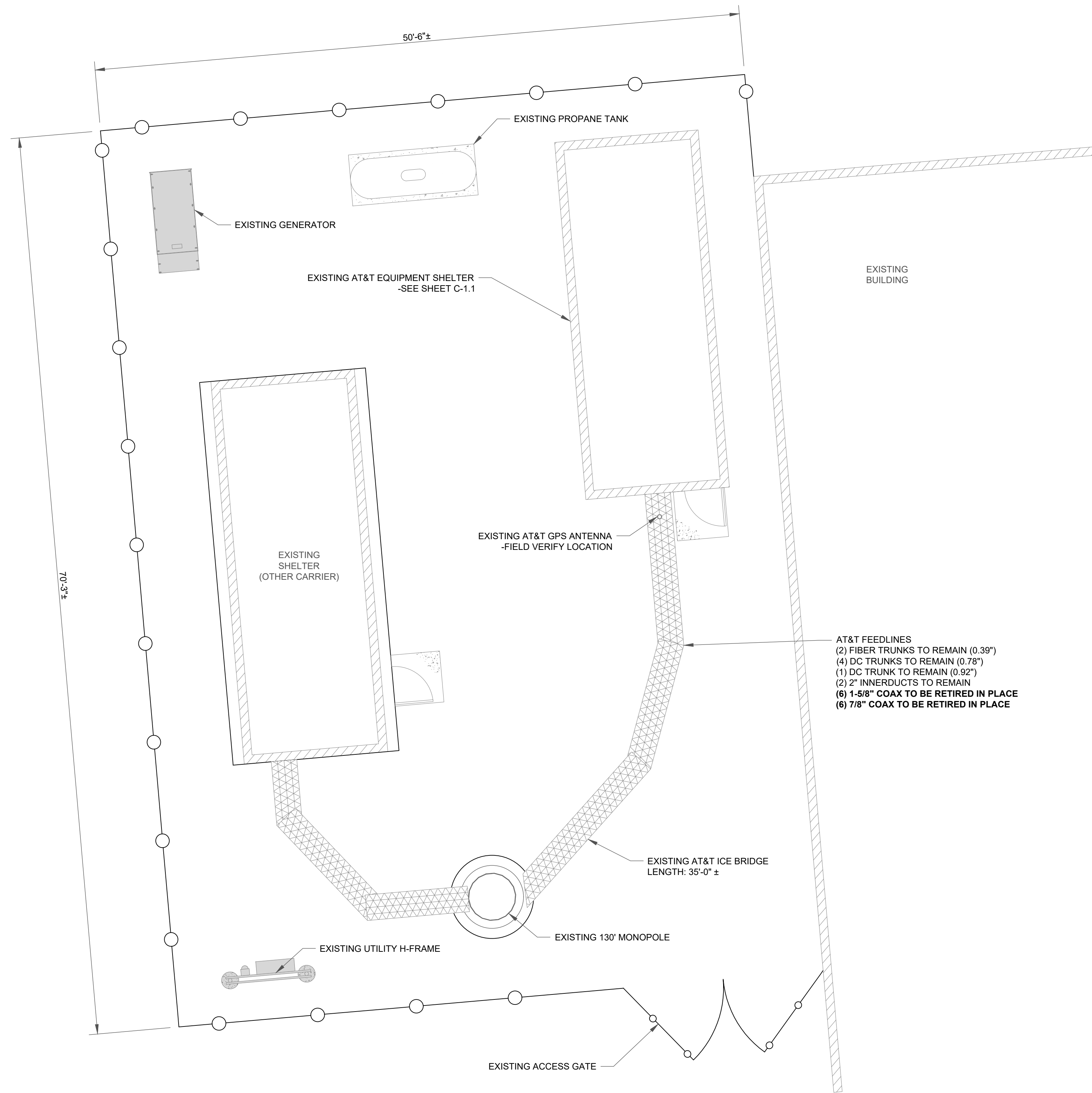
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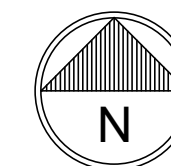
**1** EQUIPMENT PLAN  
 SCALE: 3/4"=1'-0" (FULL SIZE)  
 3/8"=1'-0" (11x17)



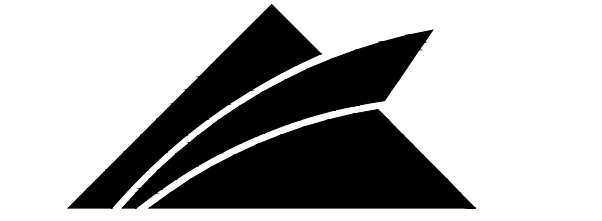
POWER SCOPE OF WORK TO BE COMPLETED BY OTHERS  
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1 COMPOUND LAYOUT  
 SCALE: 3/16"=1'-0" (FULL SIZE)  
 3/32"=1'-0" (11x17)



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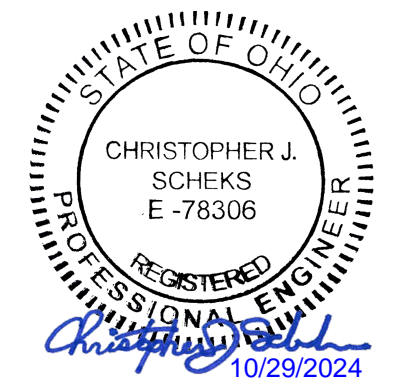
6430 SHIER-RINGS ROAD  
 DUBLIN, OH 43017

EXISTING 130'  
 MONOPOLE

GPD JOB #: 2024723.16.14693.01

ISSUED FOR:

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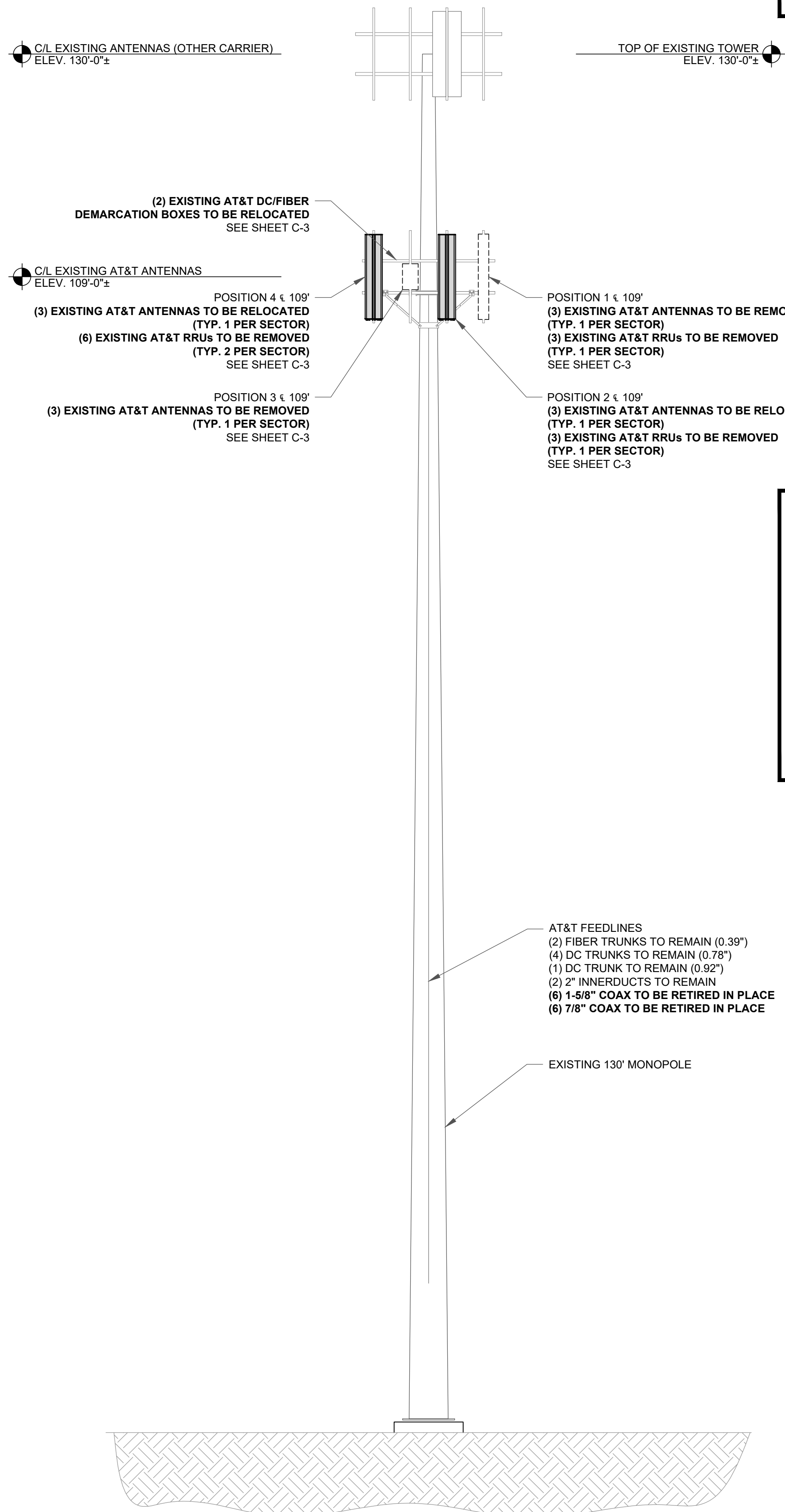
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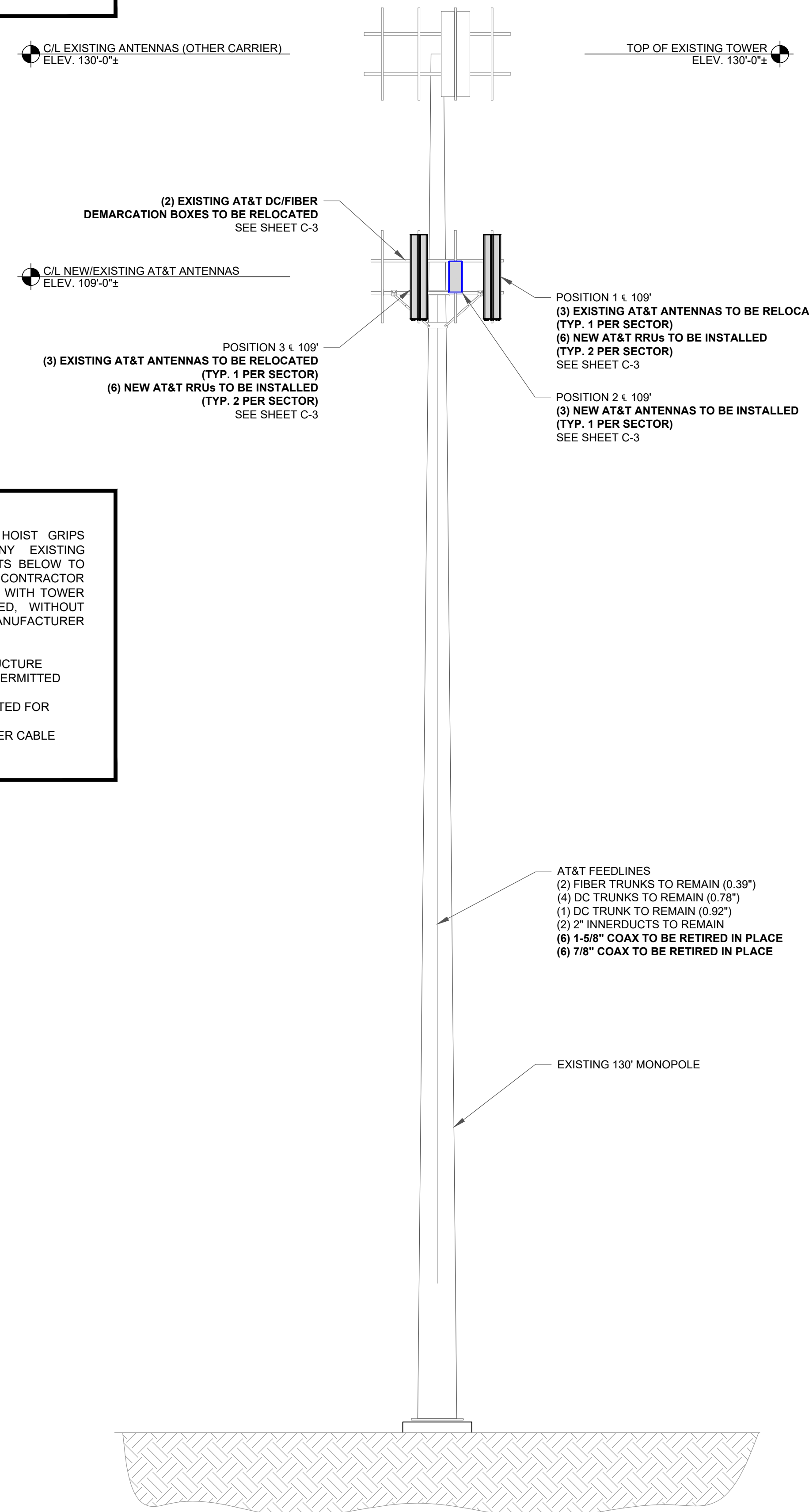
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THE MOUNT ANALYSIS PERFORMED BY GPD GROUP GLAUS, PYLE, SCHOMER, BURNS AND DEHAVEN, INC. (PROJECT #2024723.16.14693.01 DATED 09/11/2024) FINDS THE MOUNT HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION

THE TOWER STRUCTURAL ANALYSIS PERFORMED BY AMERICAN TOWER CORPORATION DATED 09/26/2024 FINDS THE TOWER HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION



1 EXISTING TOWER ELEVATION  
SCALE: 1/8"=1'-0" (FULL SIZE)  
1/16"=1'-0" (11x17)



2 FINAL TOWER ELEVATION  
SCALE: 1/8"=1'-0" (FULL SIZE)  
1/16"=1'-0" (11x17)

**CABLE SUPPORT HANGER NOTE:**

CONTRACTOR SHALL FIELD VERIFY EXISTING CABLE HOIST GRIPS SUPPORT METHOD. CONTRACTOR SHALL NOTE ANY EXISTING INSTALLATION NOT CONFORMING TO THE REQUIREMENTS BELOW TO CONSTRUCTION MANAGER FOR REMEDIATION APPROVAL. CONTRACTOR SHALL MAINTAIN A SUPPLY OF REMEDIATION HARDWARE WITH TOWER CREWS FOR ON-SITE REMEDIATION, WHEN APPROVED, WITHOUT REMOBILIZATION. INSTALL ALL HARDWARE PER MANUFACTURER REQUIREMENTS.

- ALL HOIST GRIPS SHALL BE SECURED TO TOWER STRUCTURE
- WRAPPING HOIST GRIPS OVER TOWER STEEL IS NOT PERMITTED
- USE OF SHACKLES IS PREFERRED
- BEAM CLAMPS OR ANGLE ADAPTERS ARE NOT PERMITTED FOR HOIST GRIPS
- HOIST GRIPS SHALL BE INSTALLED EVERY 200 FT OR PER CABLE MANUFACTURER REQUIREMENTS
- CHAIN NOT PERMITTED FOR HOIST GRIP SUPPORT

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DUBLIN, OH 43017  
EXISTING 130'  
MONOPOLE  
GPD JOB #: 2024723.16.14693.01

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SHEET NUMBER: **C-2** REVISION: **0**

AT&T SITE NUMBER:

**SOH3615**

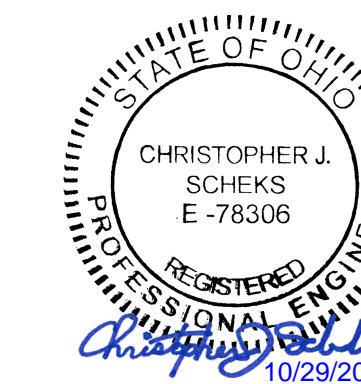
6430 SHIER-RINGS ROAD  
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MONOPOLE

GPD JOB #: 2024723.16.14693.01

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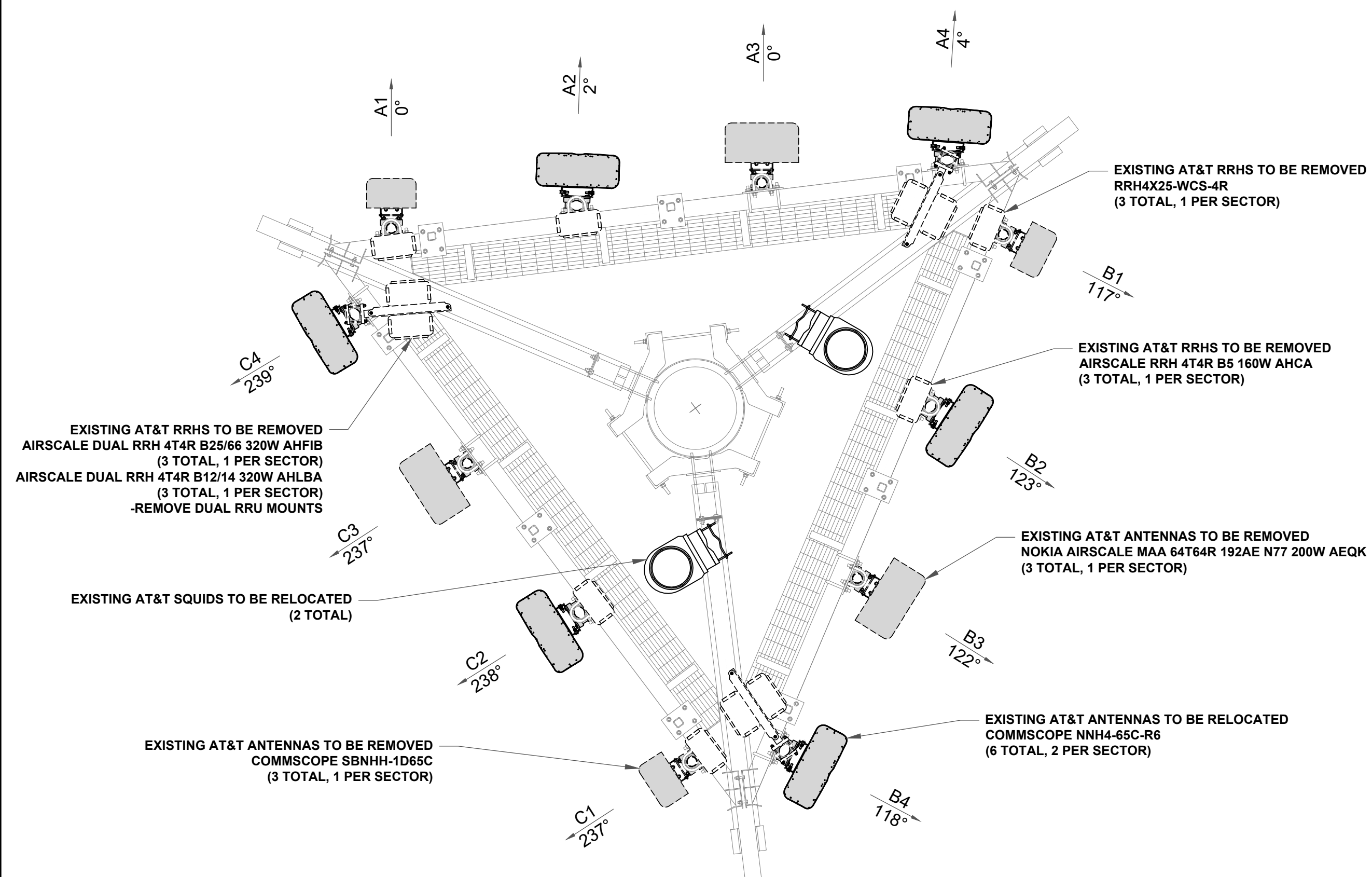
**C-3**

REVISION:


**0**

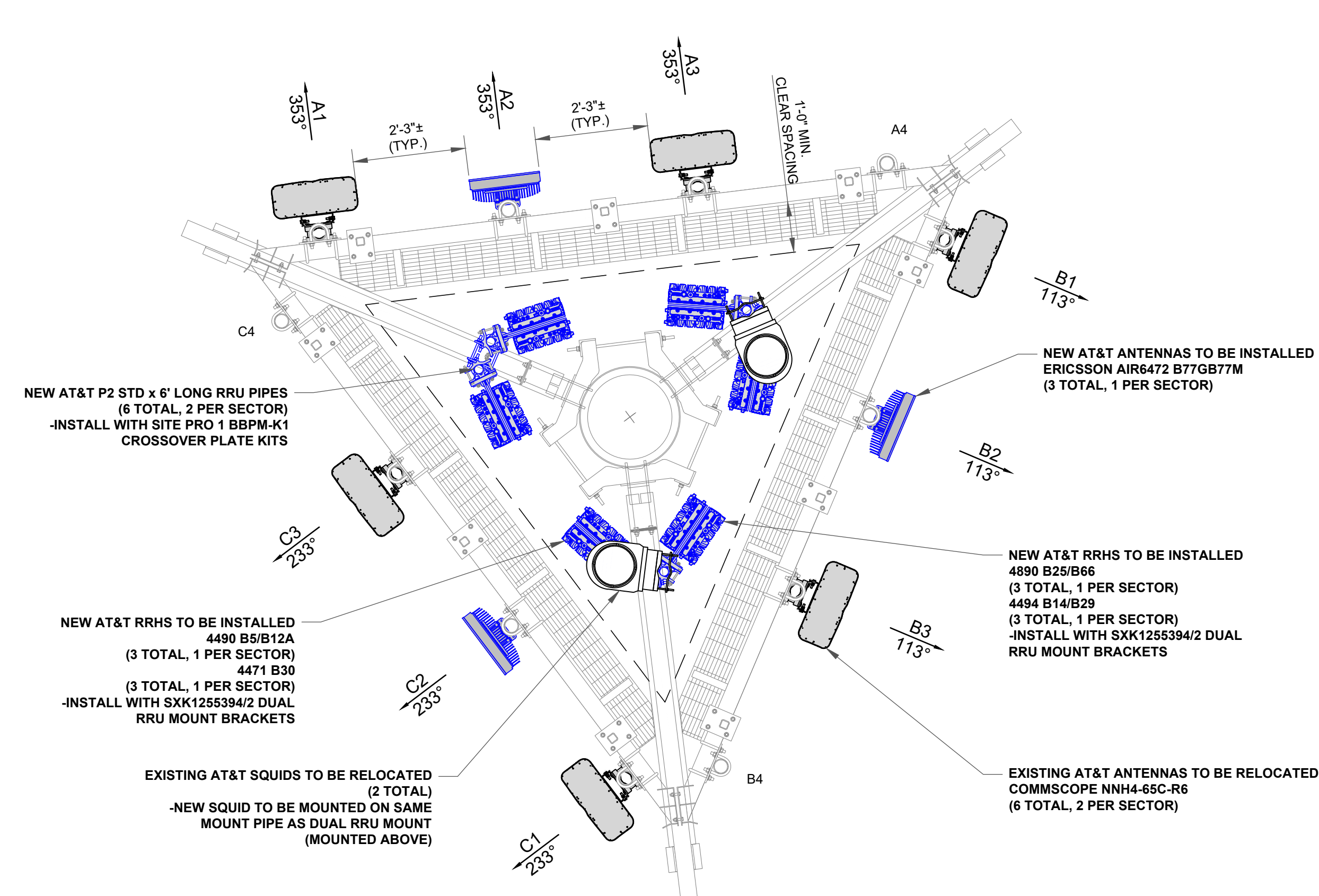
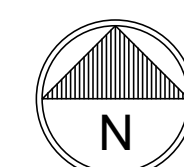
NOTES:

ALL DUAL RRU MOUNTS TO BE INSTALLED NO MORE THAN 12" FROM V-FRAME TO TOWER CONNECTION POINT




**1** EXISTING ANTENNA LAYOUT

SCALE:  1/2"=1'-0" (FULL SIZE)  
1/4"=1'-0" (11x17)



**2** NEW ANTENNA LAYOUT

SCALE:  1/2"=1'-0" (FULL SIZE)  
1/4"=1'-0" (11x17)







AT&T SITE NUMBER:

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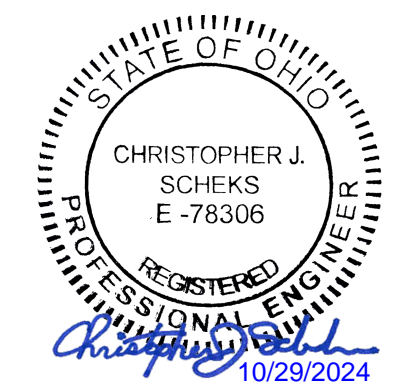
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SHEET NUMBER:

**C-4.1**

REVISION:

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EXISTING ANTENNA AND COAXIAL CABLE SCHEDULE

ALPHA

POSTION	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY	DIPLEXER QTY ON TOWER	RAYCAP DEMARC SQUID	DC FIBER CABLES	RRUS QTY ON TOWER	DIPLEXERS QTY ON GROUND	RET HOMERUN
A1	EXISTING	0°	COMMSCOPE SBNHH-1D65C	113'	1-5/8"	-	2	-	-	(1) DC9-48-60-24-8C-EV (1) DC6-48-60-18-8C	(2) FIBER TRUNKS (0.39") (4) DC TRUNKS (0.78") (1) DC TRUNK (0.92")	(1) RRH4X25-WCS-4R	-	-
A2	EXISTING	2°	COMMSCOPE NNH4-65C-R6	113'	7/8"	-	2	-	-	-	-	(1) AIRSCALE RRH 4T4R B5 160W AHCA	-	-
A3	EXISTING	0°	NOKIA AIRSCALEMAA 64T64R192AE N77200W AEQK	113'	-	-	-	-	-	-	-	-	-	-
A4	EXISTING	4°	COMMSCOPE NNH4-65C-R6	113'	-	-	-	-	-	-	-	(1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA	-	-

BETA

B1	EXISTING	117°	COMMSCOPE SBNHH-1D65C	113'	1-5/8"	-	2	-	-	-	-	(1) RRH4X25-WCS-4R	-	-
B2	EXISTING	123°	COMMSCOPE NNH4-65C-R6	113'	7/8"	-	2	-	-	-	-	(1) AIRSCALE RRH 4T4R B5 160W AHCA	-	-
B3	EXISTING	122°	NOKIA AIRSCALEMAA 64T64R192AE N77200W AEQK	113'	-	-	-	-	-	-	-	-	-	-
B4	EXISTING	118°	COMMSCOPE NNH4-65C-R6	113'	-	-	-	-	-	-	-	(1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA	-	-

GAMMA

C1	EXISTING	237°	COMMSCOPE SBNHH-1D65C	113'	1-5/8"	-	2	-	-	-	-	(1) RRH4X25-WCS-4R	-	-
C2	EXISTING	238°	COMMSCOPE NNH4-65C-R6	113'	7/8"	-	2	-	-	-	-	(1) AIRSCALE RRH 4T4R B5 160W AHCA	-	-
C3	EXISTING	237°	NOKIA AIRSCALEMAA 64T64R192AE N77200W AEQK	113'	-	-	-	-	-	-	-	-	-	-
C4	EXISTING	239°	COMMSCOPE NNH4-65C-R6	113'	-	-	-	-	-	-	-	(1) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB (1) AIRSCALE DUAL RRH 4T4R B12/14 320W AHLBA	-	-

NOTE: RFDS BEING USED  
DATED 6/7/2024 RFDS-32976

**1** EXISTING ANTENNA AND COAXIAL CABLE SCHEDULE  
SCALE: NOT TO SCALE

AT&T SITE NUMBER:

**SOH3615**

6430 SHIER-RINGS ROAD  
DUBLIN, OH 43017

EXISTING 130'  
MONOPOLE

GPD JOB #: 2024723.16.14693.01

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SHEET NUMBER:

**C-4.2**

REVISION:

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FINAL ANTENNA AND COAXIAL CABLE SCHEDULE

ALPHA

POSTION	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY	DIPLEXER QTY ON TOWER	RAYCAP DEMARC SQUID	DC FIBER CABLES	RRUS QTY ON TOWER	DIPLEXERS QTY ON GROUND	RET HOMERUN
A1	RELOCATED	353°	COMMSCOPE NNH4-65C-R6	113'	1-5/8"	-	2 (RIP)	-	-	(1) DC9-48-60-24-8C-EV (1) DC6-48-60-18-8C	(2) FIBER TRUNKS (0.39") (4) DC TRUNKS (0.78") (1) DC TRUNK (0.92")	(1) 4490 B5/B12A (1) 4471 B30	-	-
A2	NEW	353°	<b>ERICSSON AIR6472 B77G B77M</b>	113'	7/8"	-	2 (RIP)	-	-	-	-	-	-	-
A3	RELOCATED	353°	COMMSCOPE NNH4-65C-R6	113'	-	-	-	-	-	-	-	(1) 4890 B25/B66 (1) 4494 B14/B29	-	-
A4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BETA

B1	RELOCATED	113°	COMMSCOPE NNH4-65C-R6	113'	1-5/8"	-	2 (RIP)	-	-	-	-	(1) 4490 B5/B12A (1) 4471 B30	-	-
B2	NEW	113°	<b>ERICSSON AIR6472 B77G B77M</b>	113'	7/8"	-	2 (RIP)	-	-	-	-	-	-	-
B3	RELOCATED	113°	COMMSCOPE NNH4-65C-R6	113'	-	-	-	-	-	-	-	(1) 4890 B25/B66 (1) 4494 B14/B29	-	-
B4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GAMMA

C1	RELOCATED	233°	COMMSCOPE NNH4-65C-R6	113'	1-5/8"	-	2 (RIP)	-	-	-	-	(1) 4490 B5/B12A (1) 4471 B30	-	-
C2	NEW	233°	<b>ERICSSON AIR6472 B77G B77M</b>	113'	7/8"	-	2 (RIP)	-	-	-	-	-	-	-
C3	RELOCATED	233°	COMMSCOPE NNH4-65C-R6	113'	-	-	-	-	-	-	-	(1) 4890 B25/B66 (1) 4494 B14/B29	-	-
C4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE: BOLD DENOTES NEW EQUIPMENT

NOTE: RFDS BEING USED  
DATED 6/7/2024 RFDS-32976

AT&T SITE NUMBER:

**SOH3615**

6430 SHIER-RINGS ROAD  
DUBLIN, OH 43017

EXISTING 130'  
MONOPOLE

GPD JOB #: 2024723.16.14693.01

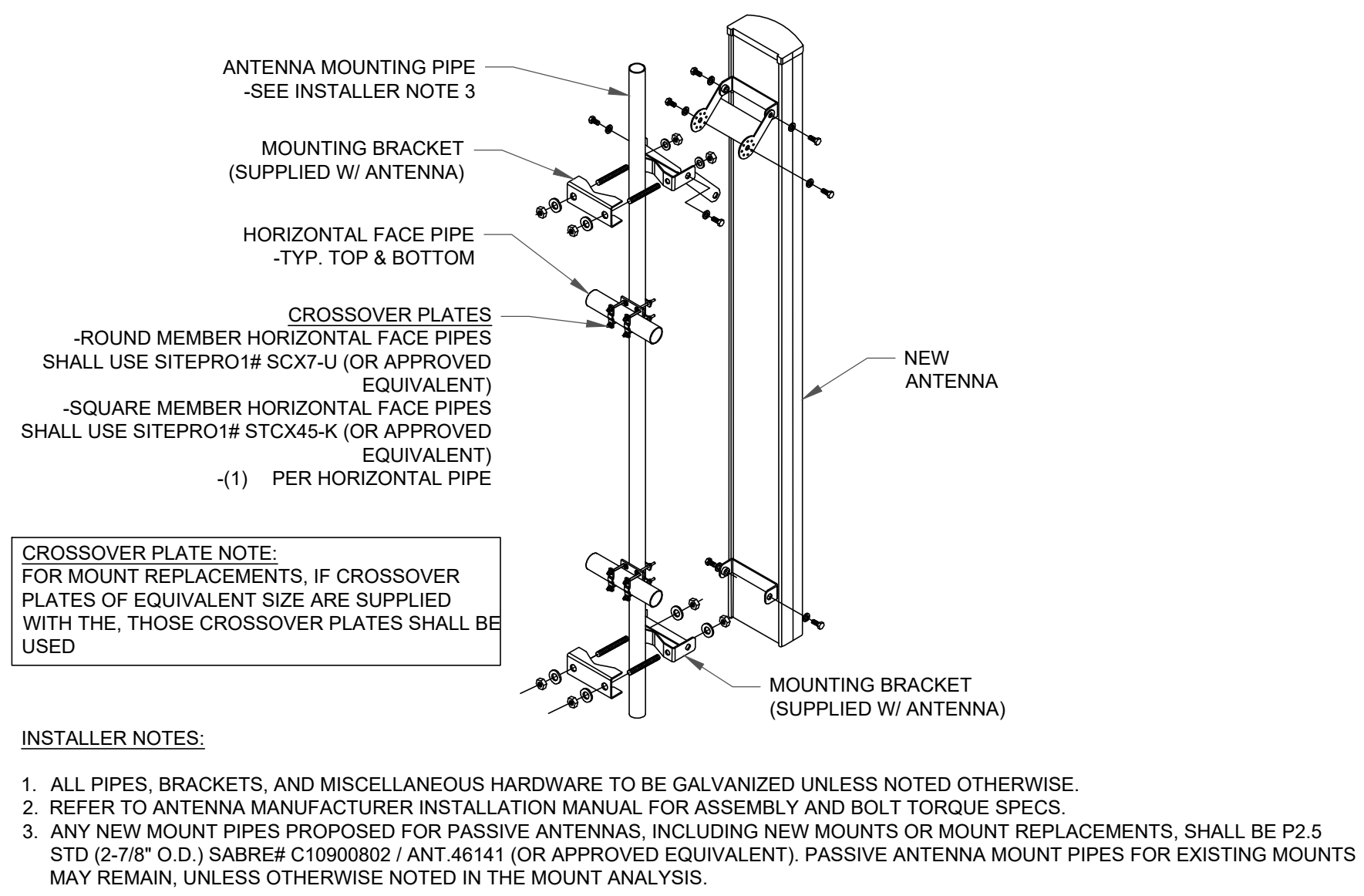
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	8/30/2024	BAB	90% CDs FOR REVIEW	ES
0	10/29/2024	CRM	FOR CONSTRUCTION	ES

REFERENCE ONLY

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TO ALTER THIS DOCUMENT.

SHEET NUMBER: **C-6.1**      REVISION: **0**



DETAIL NOT USED

NO SCALE

1

ANTENNA PIPE MOUNTING DETAIL

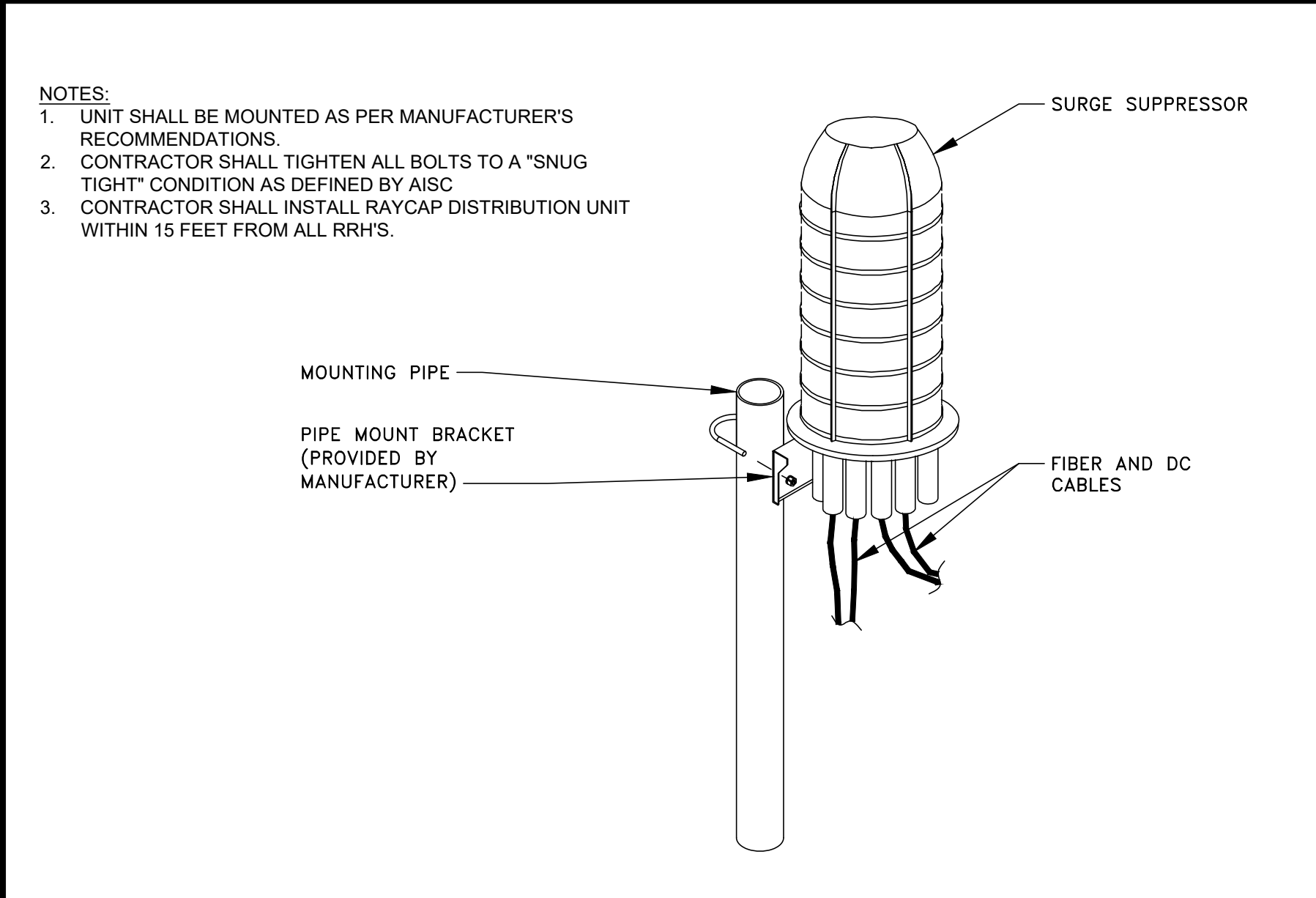
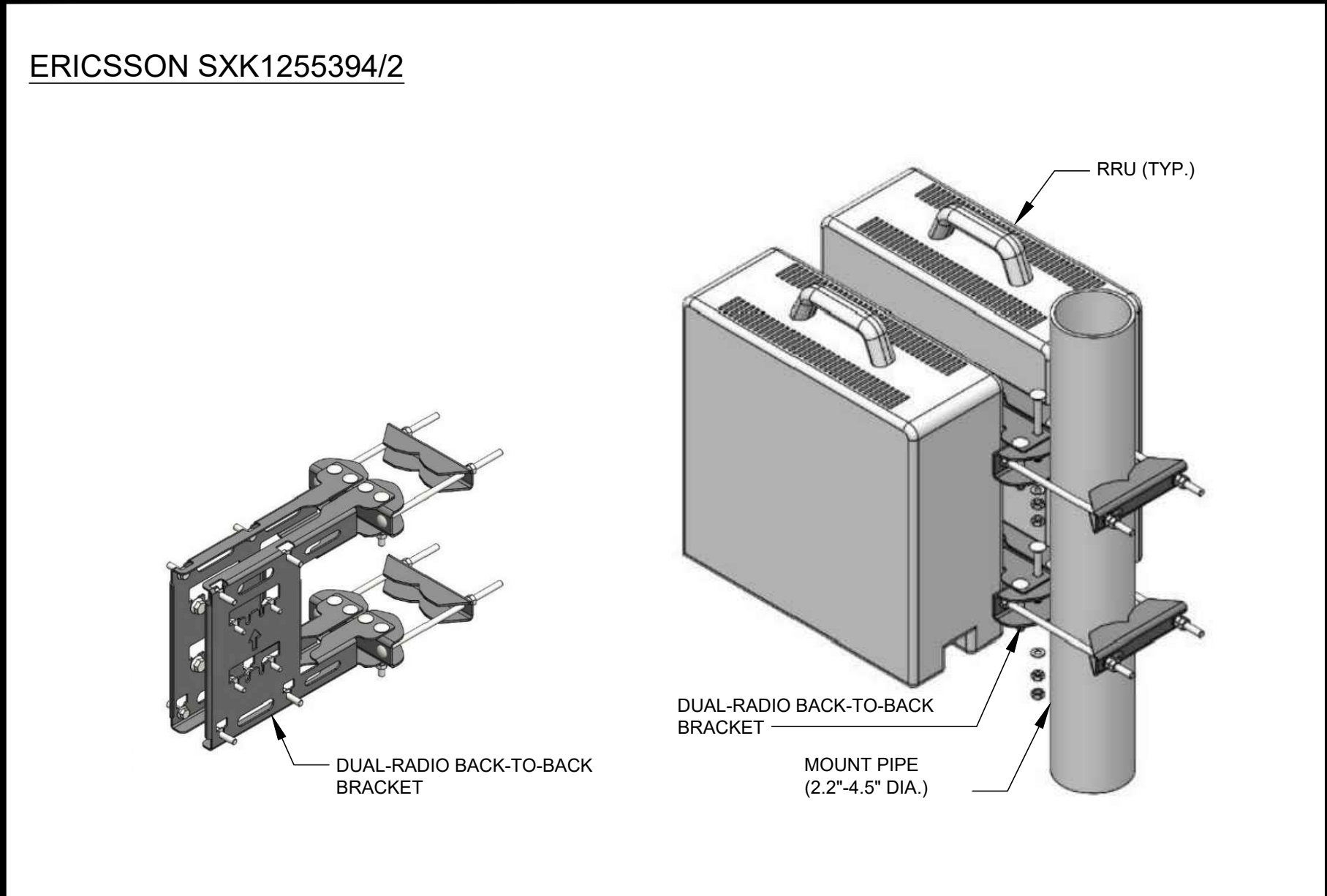
NO SCALE

2

DETAIL NOT USED

NO SCALE

3



DUAL RRU B2B MOUNTING DETAIL

NO SCALE

4

SURGE MOUNTING DETAIL

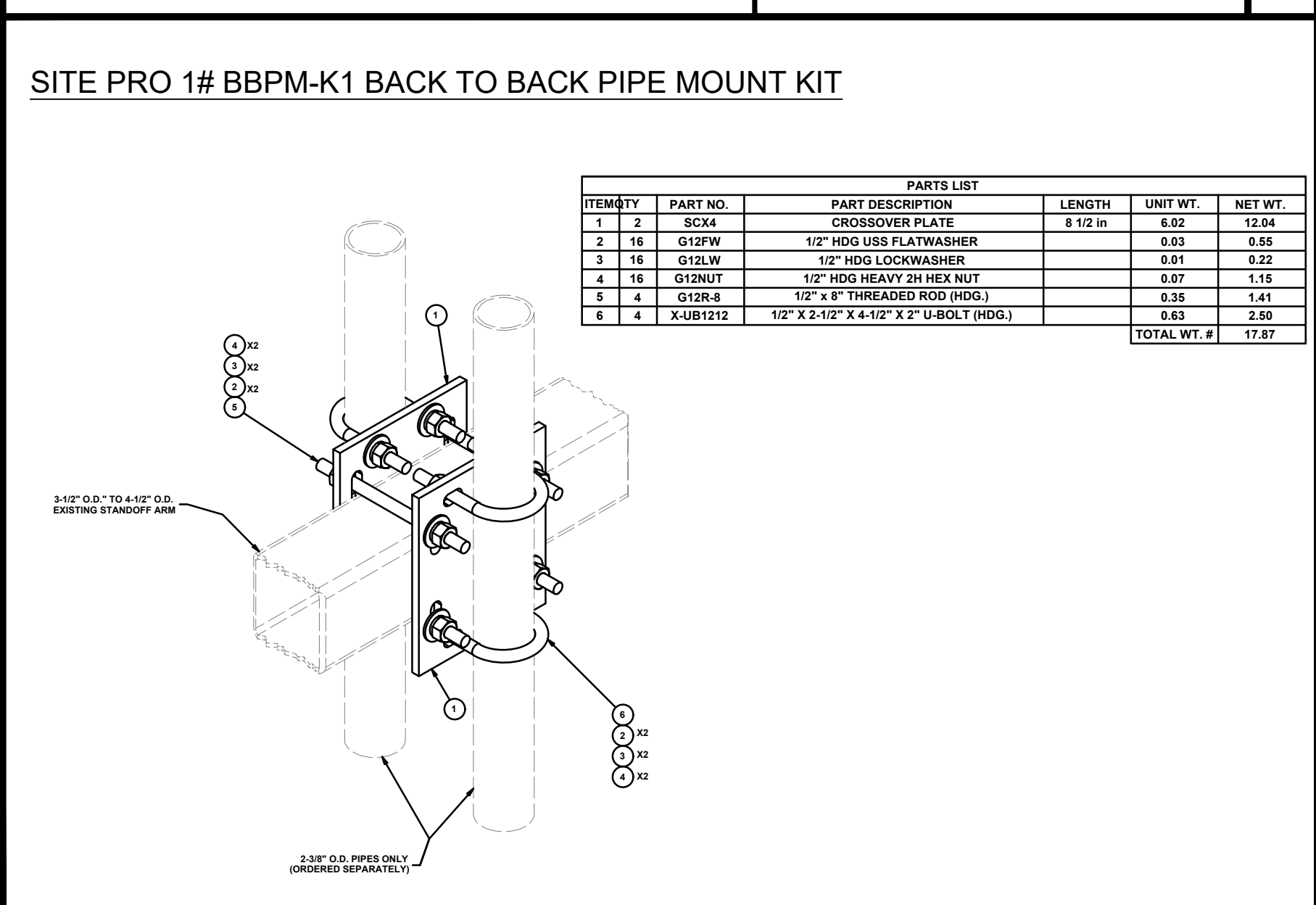
NO SCALE

5

DETAIL NOT USED

NO SCALE

6



BACK TO BACK PIPE MOUNT KIT

NO SCALE

7

DETAIL NOT USED

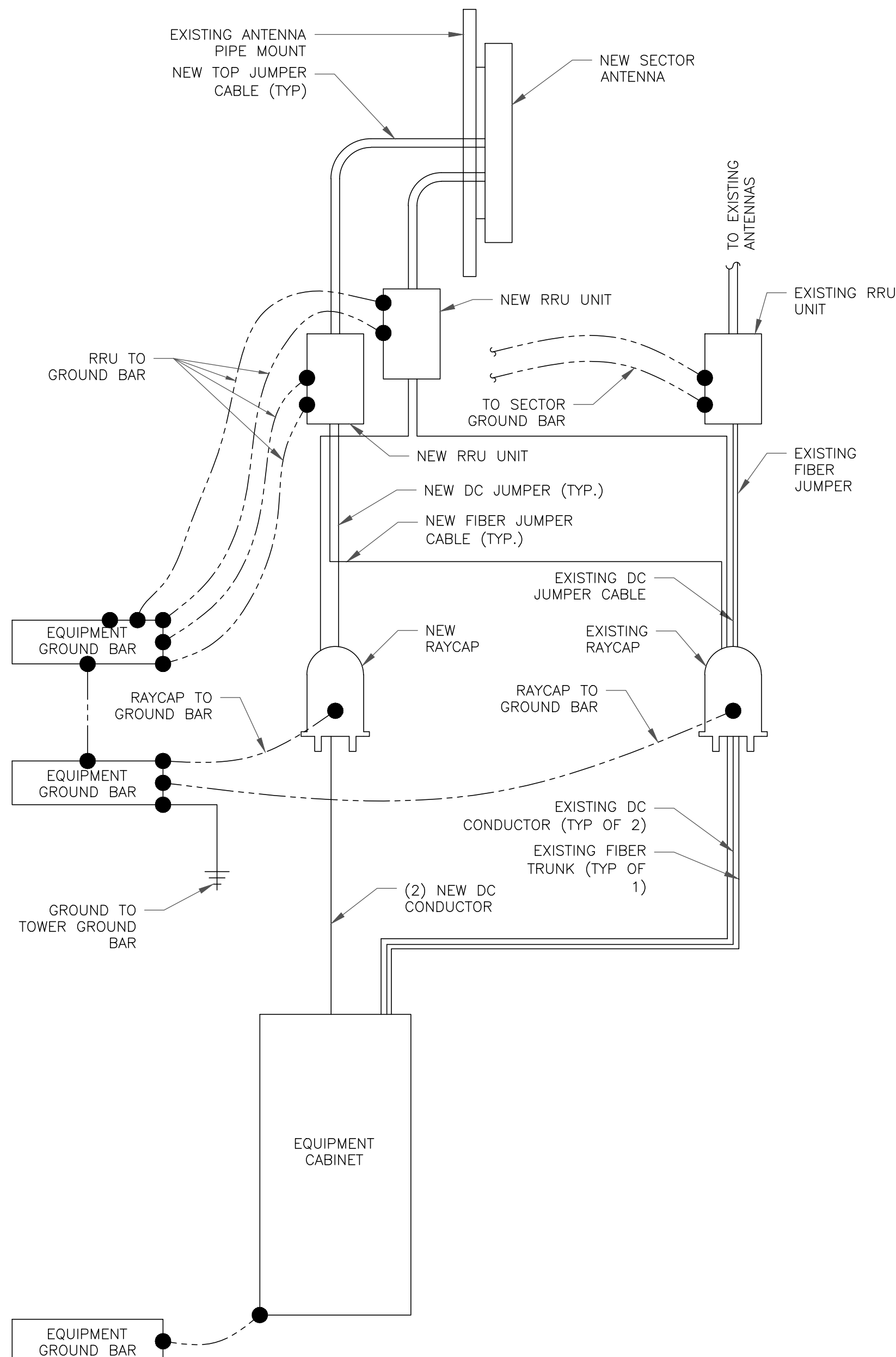
NO SCALE

8

DETAIL NOT USED

NO SCALE

9



**1** GROUNDING SCHEMATIC  
SCALE: NOT TO SCALE

1. CONTRACTOR SHALL HAVE A COMPLETE UNDERSTANDING OF THE CONTENTS OF AT&T STANDARD TP-76416.
2. ALL INSTALLATIONS SHALL BE FIELD VERIFIED.
3. ALL GROUNDING CONDUCTORS FROM PROPOSED AT&T MOBILITY EQUIPMENT TO GROUND BARS SHALL BE 6 AWG COPPER TINNED UNLESS NOTED OTHERWISE.
4. ALL GROUNDING CONDUCTORS FROM PROPOSED AT&T MOBILITY EQUIPMENT SUPPORT AND MOUNTING STRUCTURES TO GROUND BARS SHALL BE 2 AWG COPPER TINNED UNLESS NOTED OTHERWISE.
5. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
6. KOPR-SHIELD ANTI-OXIDATION COMPOUND SHALL BE USED ON ALL COMPRESSION GROUNDING CONNECTIONS.
7. ALL EXOTHERMIC CONNECTIONS SHALL BE INSTALLED UTILIZING THE PROPER CONNECTION/MOLD AND MATERIALS FOR THE PARTICULAR APPLICATION.
8. ALL BOLTED GROUNDING CONNECTIONS SHALL BE INSTALLED WITH AN EXTERNAL TOOTHED LOCK WASHER. GROUNDING BUS BARS MAY HAVE PRE-PUNCHED HOLES OR TAPPED HOLES. ALL HARDWARE SHALL BE SECURITY TORQUE HARDWARE 3/8" STAINLESS STEEL.
9. EXTERNAL GROUNDING CONDUCTOR SHALL NOT BE INSTALLED OR ROUTED THROUGH HOLES IN ANY METAL OBJECTS, CONDUITS, OR SUPPORTS TO PRECLUDE ESTABLISHING A MAGNETIC CHOKE POINT.
10. PLASTIC CLIPS SHALL BE USED TO FASTEN AND SUPPORT GROUNDING CONDUCTORS. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUNDING CONDUCTOR SHALL NOT BE USED.
11. CONTRACTOR SHALL REPAIR/PLACE EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.
12. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
13. CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS AND CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
14. CONTRACTOR SHALL GROUND ALL EQUIPMENT, INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

**1** GENERAL GROUNDING NOTES  
SCALE: NOT TO SCALE

**NOTE:**

NO AC OR DC POWER WORK IS WITHIN THE SCOPE OF THESE DRAWINGS. HOWEVER, SOME AC OR DC POWER CONSTRUCTION MIGHT BE ENCOUNTERED. IF SO REQUIRED, PRIOR TO ANY CONSTRUCTION, IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY THE MAXIMUM DEMAND LOAD AND THAT NO POSSIBLE OVERLOADS WOULD BE INCURRED WITH ANY AC OR DC ELECTRICAL WORK OF THE EXISTING PANELS OR CONDUCTORS. IF OVERLOADS ARE ANTICIPATED, CONTACT ERICSSON BEFORE PROCEEDING WITH ANY WORK. ALL AC OR DC WORK DEPICTED WITHIN THESE DRAWINGS IS DIAGRAMMATICAL AND FOR REFERENCE PURPOSES ONLY. AC AND DC ELECTRICAL SCOPE OF WORK IS BY ERICSSON.



AT&T SITE NUMBER:

**SOH3615**

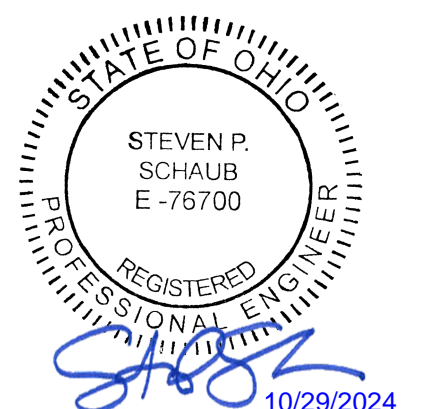
6430 SHIER-RINGS ROAD  
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MONOPOLE

GPD JOB #: 2024723.16.14693.01

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ELECTRICAL

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**G-1**

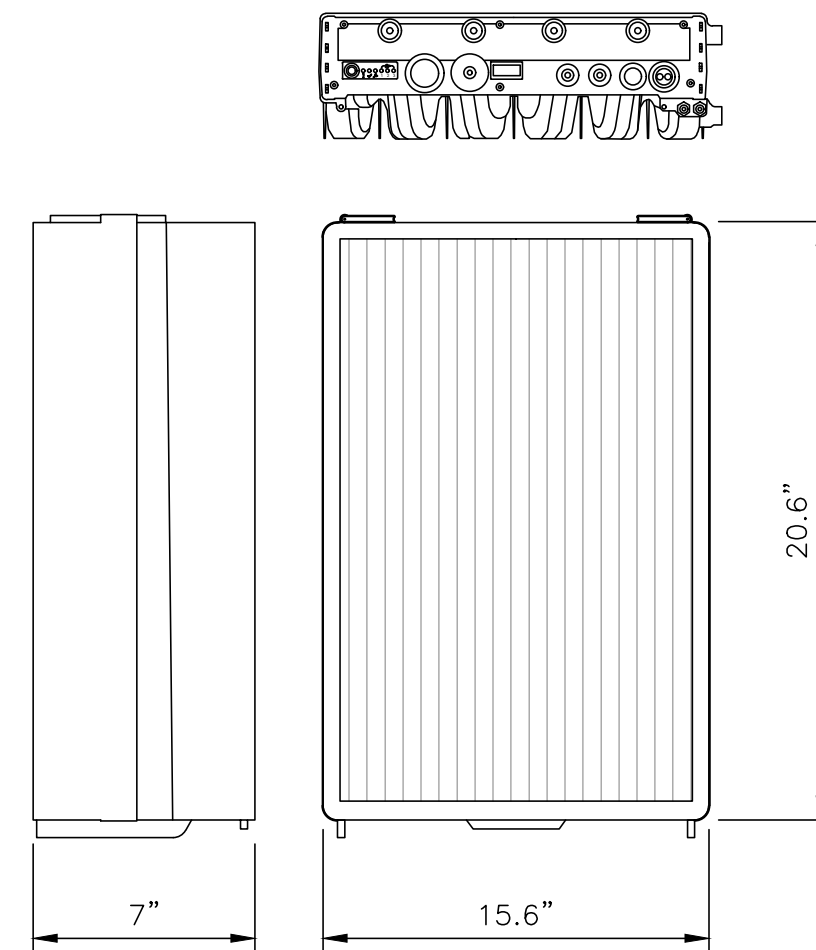
REVISION:

**0**

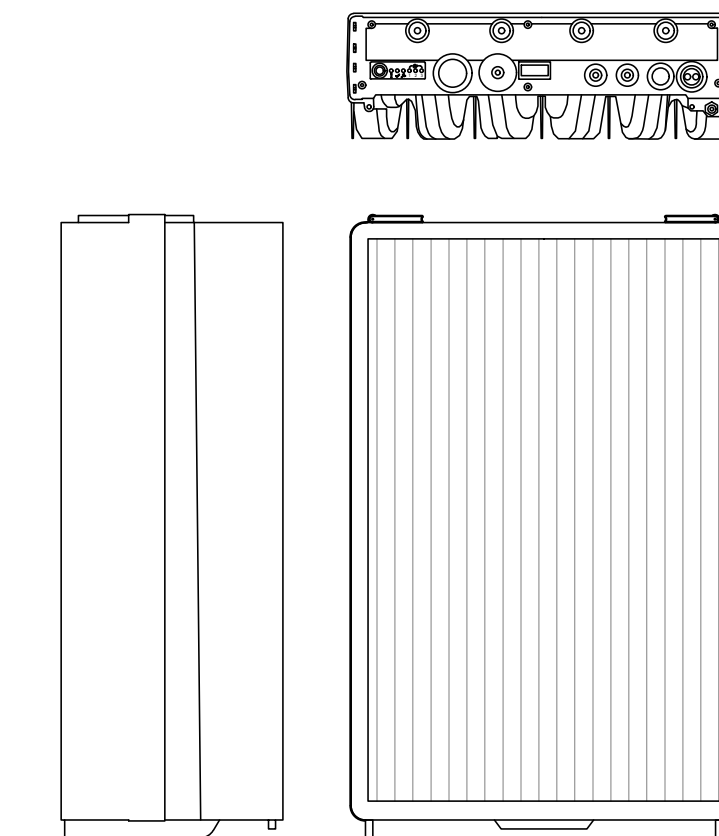
**ERICSSON AIR 6472 B77G B77M**  
 DIMENSIONS, HxWxD: 36.3"x15.8"x7.4"  
 DIMENSIONS (mm): 922x402x188mm  
 TOTAL WEIGHT: 77.2 lbs



**ERICSSON RADIO 4490 B5/12A**  
 DIMENSIONS, HxWxD: 20.6"x15.6"x7"  
 (mm) 524x397x178mm  
 POWER CONSUMPTION: 480W  
 TOTAL WEIGHT: 65 lbs



**ERICSSON RADIO 4471 B30**  
 DIMENSIONS, HxWxD: 14.2"x10.3"x5.1"  
 (mm) 361x261x129mm  
 TOTAL WEIGHT: 28.7 lbs



PROPOSED ANTENNA SPECIFICATIONS

NO SCALE

1

RRU SPECIFICATIONS

NO SCALE

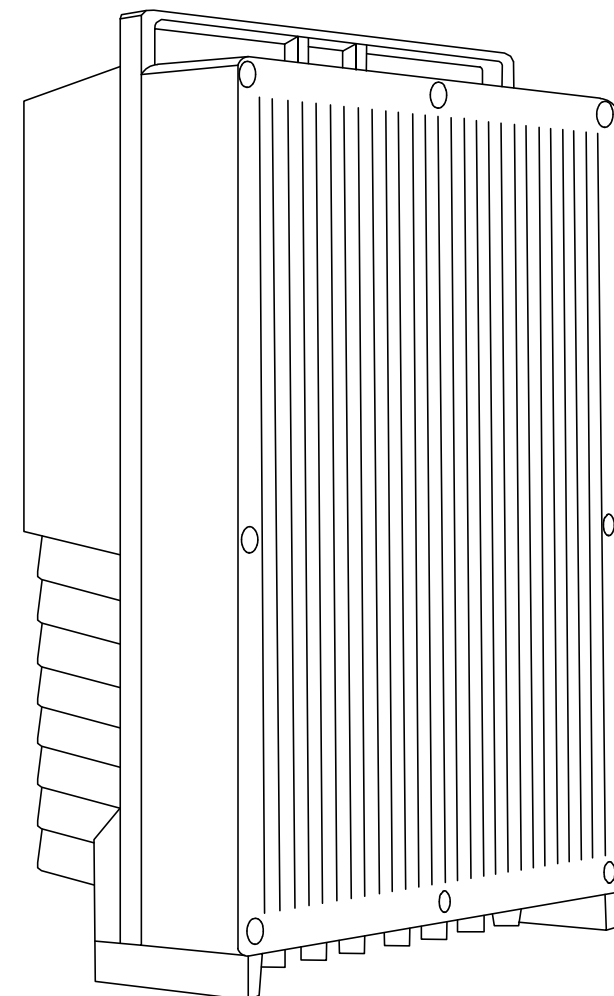
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RRU SPECIFICATIONS

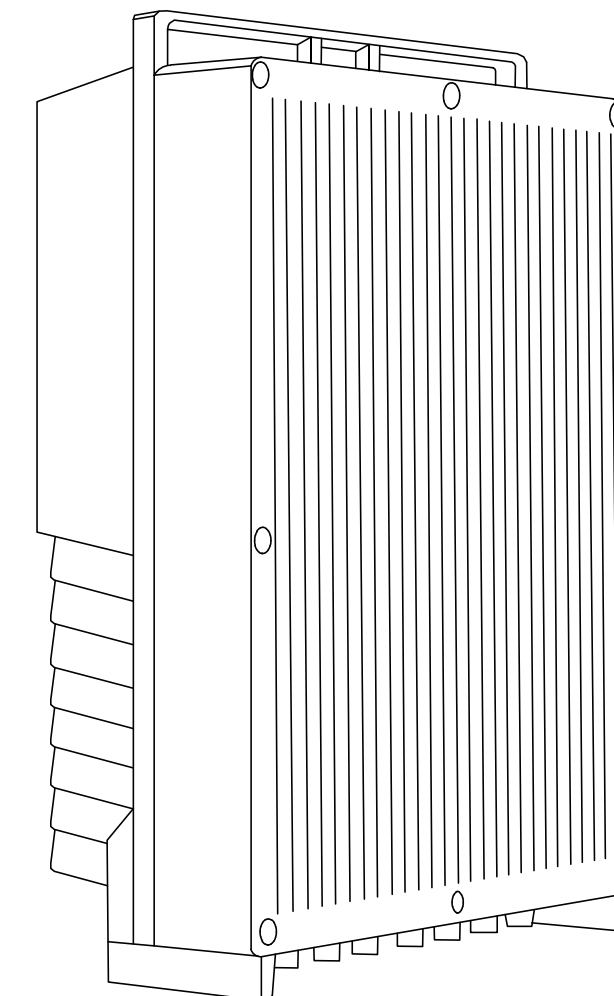
NO SCALE

3

**ERICSSON RADIO 4890 B25/66**  
 DIMENSIONS, HxWxD: 17.5"x15.1"x6.9"  
 (mm) 444x384x176mm  
 POWER CONSUMPTION: 480 WATTS  
 TOTAL WEIGHT: 68 lbs



**ERICSSON RADIO 4494 B14/B29**  
 DIMENSIONS, WxDxH: 20.6"x15.6"x5.9"  
 (mm) 522x397x149  
 TOTAL WEIGHT: 57.3 lbs



RRU SPECIFICATIONS

NO SCALE

4

RRU SPECIFICATIONS

NO SCALE

5

DETAIL NOT USED

NO SCALE

6

DETAIL NOT USED

NO SCALE

7

DETAIL NOT USED

NO SCALE

8

DETAIL NOT USED

NO SCALE

9



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SHEET NUMBER:

**C-6**

REVISION:

**0**