

COMPLIANCE CODE



ATC SITE NAME: ANGIER ATC SITE NUMBER: 372926

T-MOBILE SITE NAME: ATC 372926 T-MOBILE SITE NUMBER: 5RA1119A

SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD

ANGIER, NC 27501

SITE CLASS: GUYED

PROJECT SUMMARY



LOCATION MAP

SHEET INDEX

T-MOBILE COVERAGE STRATEGY COLLOCATION PLAN 67E998E 6160 (LRP) CONFIGURATION

PROJECT DESCRIPTION

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS	<u>SITE ADDRESS:</u> 2135 JOHNSTON COUNTY ROAD	THE PROPOSED PROJECT INCLUDES INSTALLING EQUIPMENT CABINETS ON A PROPOSED CONCRETE PAD INSIDE A 10' X 15'	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	ANGIER,NC 27501	GROUND SPACE WITHIN THE EXISTING COMPOUND, AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING	G-001	TITLE SHEET	1	12/31/24	MNC	
TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.	COUNTY: HARNETT GEOGRAPHIC COORDINATES:	TOWER. TOWER SCOPE:	G-002	GENERAL NOTES	0	12/02/24	JXB	11
2015 IBC	LATITUDE: 35.46637966	INSTALL (3) SECTOR FRAME(s), (3) ANTENNA(s), (6) RRU(s), AND (2) 2.00" HYBRID TRUNK 6/24 4AWG CABLE(s)		EXISTING SURVEY				11
NATIONAL ELECTRICAL CODE (NFPA 70, NEC 2020 W/ AMND) 2018 NORTH CAROLINA MECHANICAL CODE (IMC 2015 W/	35° 27′ 58.967″ N	GROUND SCOPE:	C-101	DETAILED SITE PLAN	0	12/02/24	JXB	
AMND) 2018 NORTH CAROLINA PLUMBING CODE (IPC 2015 W/ AMND)	LONGITUDE: -78.6456043 78° 38' 44.175" W	INSTALL (1) CONCRETE PAD, (1) ICE BRIDGE, (1) GPS ANTENNA, (2) H-FRAME, (1) METER, (1) PPC, (1) FIBER MANAGEMENT BOX,	C-102	DETAILED EQUIPMENT PLAN	0	12/02/24	JXB	
2018 NORTH CAROLINA ENERGY CONSERVATION CODE (IECC 2015 W/ AMND)	GROUND ELEVATION: 315' AMSL	(1) COMMERCIAL GRADE WORK LIGHT, (1) TELCO CABINET, (1) ENCLOSURE 6160 CABINET. AND (1) B160 BATTERY CABINET	C-201	TOWER ELEVATION	1	12/31/24	MNC	1
2018 NORTH CAROLINA FIRE PREVENTION CODE (IFC 2015 W/ AMND)		ENGLOSOME GIOLOGICEI, AND (I) BIOLOGICEI GIOLOGICEI	C-401	ANTENNA INFORMATION & SCHEDULE	0	12/02/24	JXB	1
2018 NORTH CAROLINA BUILDING CODE		DDO IFOT NOTES	C-501	MOUNT DETAILS	0	12/02/24	JXB	1
2018 NORTH CAROLINA RESIDENTIAL CODE (IRC 2015 W/ AMND)		PROJECT NOTES	C-502	CONSTRUCTION DETAILS	0	12/02/24	JXB	
2018 NORTH CAROLINA FUEL GAS CODE (IFGC 2015 W/ AMND)	PROJECT TEAM	THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A	C-503	CONSTRUCTION DETAILS	0	12/02/24	JXB	
	TOWER OWNER: APPLICANT:	MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND	E-101	GROUNDING PLAN AND NOTES	0	12/02/24	JXB]
	AMERICAN TOWER T-MOBILE	DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL	E-501	GROUNDING DETAILS	0	12/02/24	JXB	
	10 PRESIDENTIAL WAY 2801 YORKMONT RD, STE 200 WOBURN, MA 01801 CHARLOTTE, NC 28217	IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	E-601	PANEL SCHEDULE & ONE-LINE DIAGRAM	0	12/02/24	JXB	
	ENGINEER:	THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED		SUPPLEMENTAL SHEETS (12 PAGES)				
	A.T. ENGINEERING SERVICES,	REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE						
UTILITY COMPANIES	PLLC 1 FENTON MAIN, STE 300	COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL						
POWER COMPANY: SOUTH RIVER EMC	CARY, NC 27511 PROPERTY OWNER:	CHANGE UNDER CFR § 1.61000 (B)(7).						
PHONE: (910) 892-8071	AMERICAN TOWER	PROJECT LOCATION DIRECTIONS						
TELEPHONE COMPANY: UNKNOWN PHONE: N/A	10 PRESIDENTIAL WAY WOBURN. MA 01801							
FIGHE. NA	WODDINN, IMA CTOOT	TAKE 27E FROM BENSON, NC. TURN RIGHT ONTO ABATTIOR RD.						
811.		AND GO TO THE END. TURN LEFT ONTO JOHNSTON COUNTY RD AND TOWER IS IMMEDIATELY ON LEFT SIDE.						
Know when below.		AND TOWER IS INVINEDIATED ON ELL TOIDE.						
Call before you dig.								



1 FENTON MAIN SUITE 300 PHONE: (919) 468-0112 P-1177

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
△_	FOR CONSTRUCTION	JXB	12/02/24
<u> </u>	SHOW GUY WIRES	MNC	12/31/24
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ATC SITE NUMBER: 372926 ATC SITE NAME:

ANGIER

T-MOBILE SITE NAME:

ATC 372926

SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER.NC 27501

Paul

Digitally signed by Paul Northrup Northrup Date: 2025.01.01 10:27:31 -05'00'

T. Mobile

	Ш	ATC PROJ. #:	14922080_D2
_	Ш	CUST. ID:	ATC 372926
	Ш	CUST. #:	5RA1119A

TITLE SHEET

SHEET NUMBER:

G-001

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND
 - BUILD/CO-LOCATE ONLY) AC/TELCO INTERFACE BOX (PPC)
 - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
- D. TOWERS, MONOPOLES
- TOWER LIGHTING
- GENERATORS & LIQUID PROPANE TANK
- G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- ANTENNAS (INSTALLED BY OTHERS)
- TRANSMISSION LINE
- TRANSMISSION LINE JUMPERS
- TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
- TRANSMISSION LINE GROUND KITS
- HANGERS
- HOISTING GRIPS
- O. BTS EQUIPMENT
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS GROUNDING RINGS GROUNDING WIRES COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, 34.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- 12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION LISING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD
- 17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) VITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK
- PRIOR TO SUBMISSION OF BID CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP. TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED. AND PAID FOR, BY THE
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND 24. APPROVAL PRIOR TO FABRICATION
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND
- WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY AUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION
- COMPLETION OF PROJECT SHALL NOT OBSTRUCT TRAP LOOSEN OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING TRENCH BOXES/SLOPING, BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS
- IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS
- T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE HE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP
- T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC. SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL
- 2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED
 - C. ASTM A-500, GRADE B HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL
 - E. ASTM F-1554 07 ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- 6 CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY
 - INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1. UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
 - H THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE
 - ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T-MOBILE PROJECT MANAGER IN WRITING

ANTENNA INSTALLATION NOTES:

- WORK INCLUDED:
 - ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF
 - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RES "MINIMUM FIELD TESTING. RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS, WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
- 2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

CONCRETE AND REINFORCING STEEL NOTES:

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- 2. MIX DESIGN SHALL BE APPROVED BY T-MOBILE REP PRIOR TO PLACING CONCRETE
- CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI UNLESS OTHERWISE NOTED.
 - THE FOLLOWING MATERIALS SHALL BE USED: PORTLAND CEMENT: ASTM C150, TYPE 2

REINFORCEMENT: ASTM A185, PLAIN STEEL WELDED WIRE FABRIC REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED

NORMAL WEIGHT AGGREGATE: ASTM C33 WATER: ASTM C 94/C 94M

WELDED WIRE FARRIC: ASTM A185 ADMIXTURES:

> -WATER-REDUCING AGENT: ASTM C 494/C 494M, TYPE A -AIR-ENTERING AGENT: ASTM C 260/C 260M -SUPERPLASTICIZER ASTM C494, TYPE F OR TYPE G -RETARDING: ASTM C 494/C 494M, TYPE B

- MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERW
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN 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 APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- FOR COLD-WEATHER (ACI 306) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN FITHER CASE. MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
- 14. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH.
- SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACLIMANUAL OF STANDARD
- ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS
- LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT
- SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".
- BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.
- SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6"

ELECTRICAL NOTES:

- ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
- ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES) ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF ATC. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUNDING CABLES AND UTILITY LINES PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUNDING LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIEV ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES, ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

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372926 ATC SITE NAME:

ANGIER

T-MOBILE SITE NAME: ATC 372926

SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER.NC 27501

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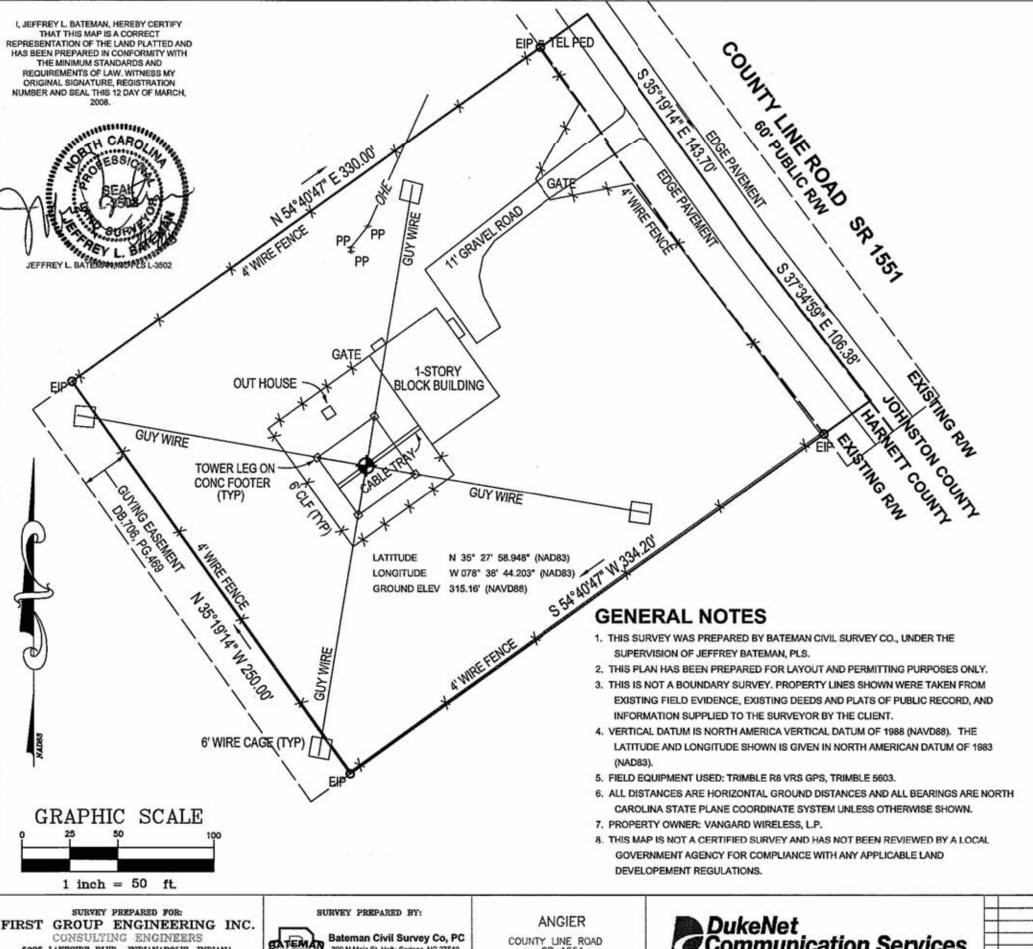
ATC PROJ. #: 14922080_D2 CUST ID: ATC 372926 CUST. #: 5RA1119A

GENERAL NOTES

SHEET NUMBER:

G-002

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LEGAL DESCRIPTION

All that tract or parcel of land situate in the County of Harnett, State of North Carolina, and more particularly described as follows:

Beginning at a point in the center line of County Road, SR 1551, said point being located along center line of said road, N37°34'33.5"W, 153.00' from the center line intersection of SR 1551 and SR 1552, and runs thence S54°40'46.5"W, 334.20' to an iron; thence N35°19'13.5"W, 250.00' to an iron: thence N54°40'46.5"E, 330.00' to a point in the center line of County Road SR 1551, said point being located in the center line of said County Road SR 1551, S35°19'13.5"E, 130.00' from the intersection of the Northerly line of the 6.7 acre tract with center line of said road; thence with the center line of said road two lines; S35°19'13.5"E, 143.70', (2) S37°34'33.5"E, 106.40' to the point of Beginning, containing 1.899 acres, more or less,

Being the same tract or parcel of land conveyed to American Tower Management, Inc. from AT&T Corp., by Deed dated February 28,2000 and recorded May 24,2000 in Book 1419, Page 150, in the office of the Register of Deeds for Harnett County, North Carolina.

Being the same tract or parcel of land conveyed to John Fridley from American Tower Management, Inc., by Deed dated April 20, 2001 and recorded July 26, 2001 in Book 1525, Page 760 (Instrument #20010113561, in the Office of the Register of Deeds for Harnett County, North Carolina.

Being the same tract or parcel of land conveyed to Eastern Sky Ministries from John Fridley, by Deed dated March 29,2002 and recorded April 18, 2002 in Book 1613, Page 427, in the office of the Register of Deeds for Harnett County, North Carolina.

Being the same tract or parcel of land which passed to Rita Fridley and John Fridley by inventory from John David Fridley as evidenced by Item (f) of inventory for Decedent's Estate filed with the Clerk of Superior Court of Union County, N.C. on May 10, 2007.

Being the same tract or parcel of land conveyed to Vangard Wireless, L.P.from Rita Fridley and John Fridley., by Deed dated October 17, 2007 Page in the office of the and recorded in Book Register of Deeds for Chatham County, North Carolina.

DukeNet Communications Services

AS-BUILT SURVEY

DRAWING NUMBER SITE NAME ANGIER

5925 LAKESIDE BLVD., INDIANAPOLIS, INDIANA PH. (317) 290-9549 FAX (317) 290-9580

200 N Main St, Holly Springs, NC 27540 919.577.1080

HARNETT COUNTY, N.C.



DATE

REVISIONS

DATE: 03/03/08 CHECKED BY: J.B DRAWN BY: JH

BY CHK APP

SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- 2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

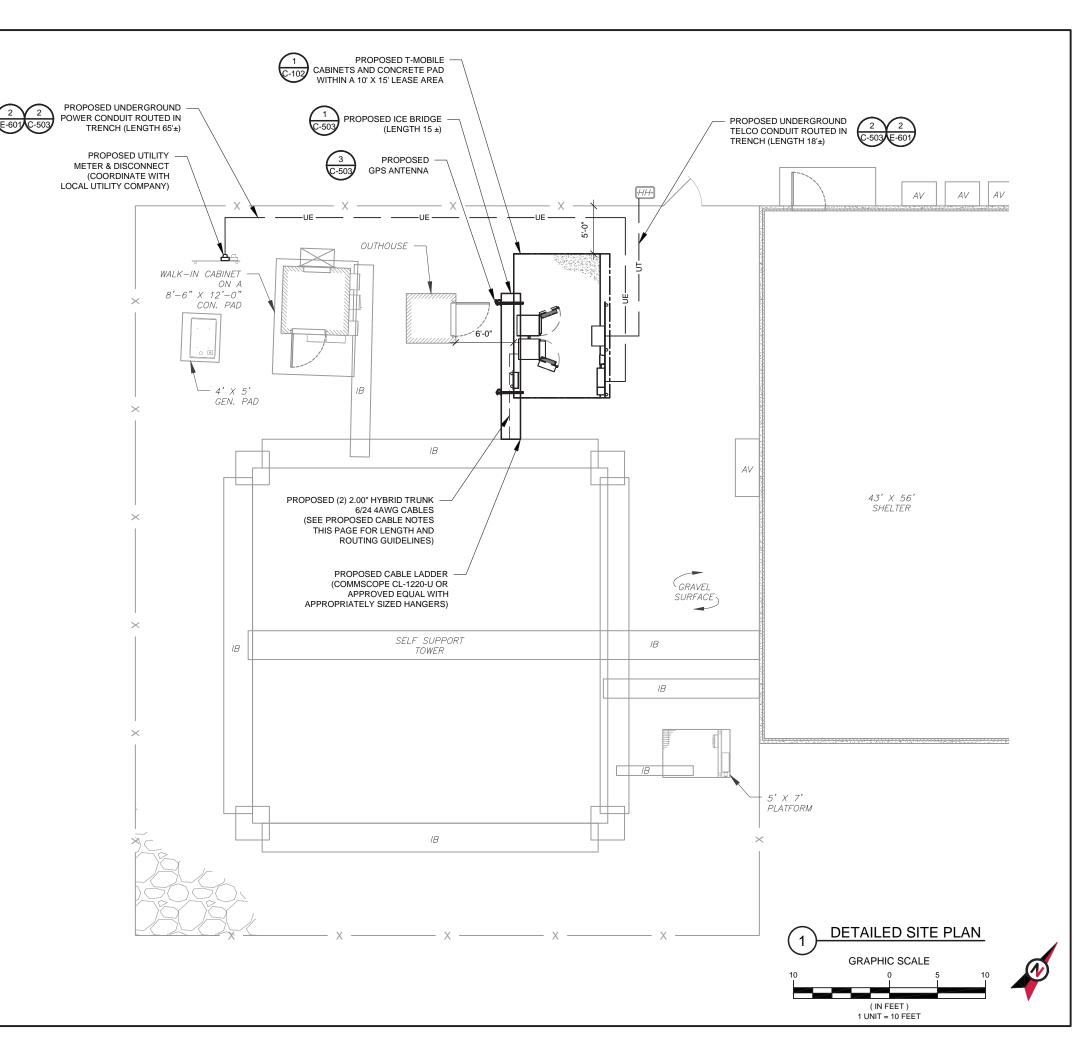
LEGEND GROUNDING TEST WELL AUTOMATIC TRANSFER SWITCH ATS BOLLARD CSC CELL SITE CABINET DISCONNECT ELECTRICAL FIBER GEN **GENERATOR** GENERATOR RECEPTACLE HH, V HAND HOLE, VAULT ICE BRIDGE KENTROX BOX LIGHTING CONTROL METER PULL BOX POWER POLE TELCO

PROPOSED CABLE NOTES:

TRANSFORMER

TRN

- 1. ESTIMATED LENGTH OF PROPOSED CABLE IS 232'.
 ESTIMATED LENGTH OF CABLE WAS PROVIDED BY
 CUSTOMER OR CALCULATED BY ADDING THE RAD
 CENTER AND THE DISTANCE FROM THE SHELTER
 ENTRY PLATE TO THE TOWER (ALONG THE ICE
 BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF
 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER
 TO GREATEST CABLE LENGTH.
- 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).





A.T. ENGINEERING SERVICES, PLLC
1 FENTON MAIN

1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 P-1177

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

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ATC SITE NUMBER: 372926
ATC SITE NAME:

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T-MOBILE SITE NAME:

ATC 372926

SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER.NC 27501

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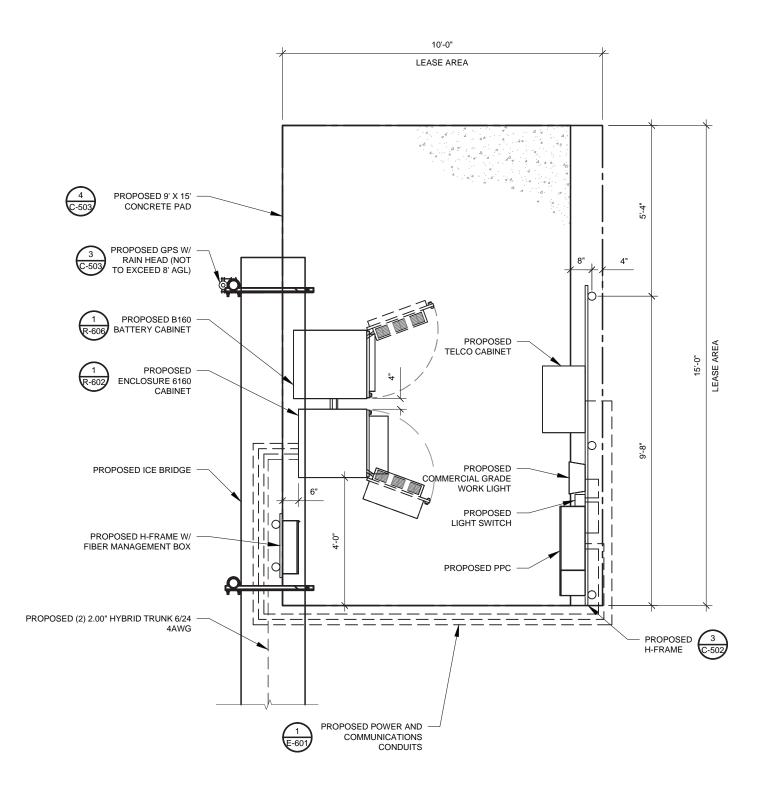
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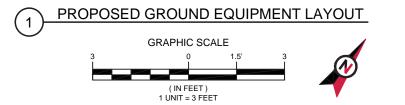
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	ATC PROJ. #:	14922080_D2
	CUST. ID:	ATC 372926
	CUST. #:	5RA1119A
- 1		

DETAILED SITE PLAN

SHEET NUMBER:

C-101







1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112

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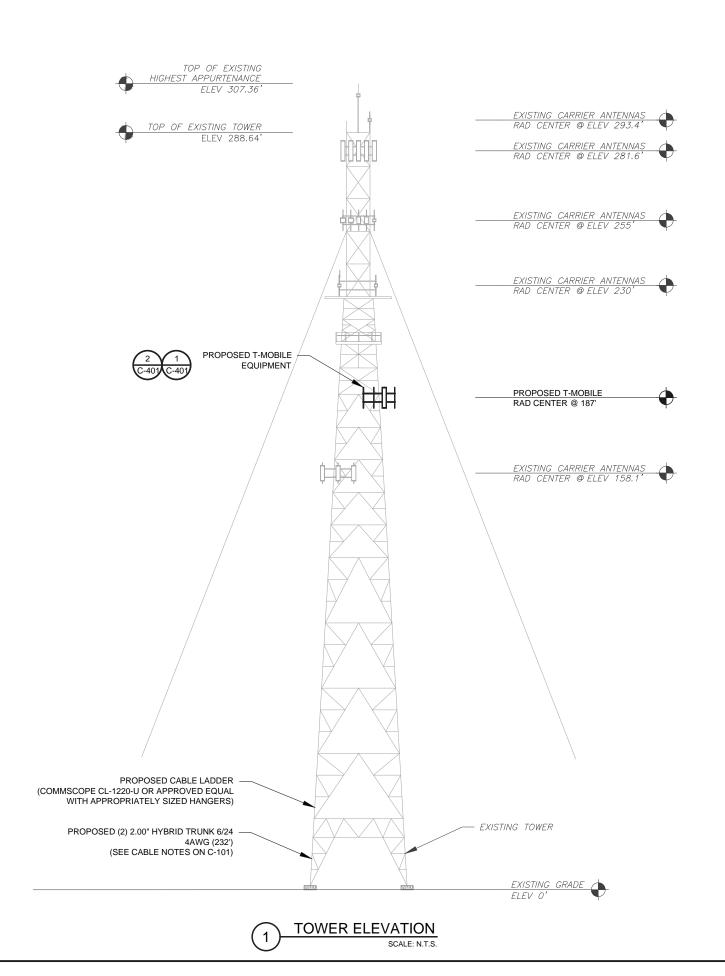
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Ш	CUST. ID:	ATC 372926
Ш	ATC PROJ. #:	14922080_D2

DETAILED EQUIPMENT PLAN

SHEET NUMBER:

C-102

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1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 P-1177

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T-MOBILE SITE NAME:

ATC 372926

SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER.NC 27501

SEA

ALL ELEVATIONS REFLECT ABOVE GROUND LEVEL (A.G.L.)

APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.

2. WHERE APPLICABLE, ALL NEW ANTENNAS.

EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR

ROUTE PROPOSED CABLES ALONG SAME PATH AS

PROVIDED FOR CARRIER TO ADEQUATELY SECURE

EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS

CABLES, USING EITHER APPROPRIATELY SIZED

CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG). TOWER ELEVATION DEPICTION MAY NOT REFLECT

ALL EQUIPMENT INCLUDED IN STRUCTURAL

FULL TOWER LOADING.

ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR

STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH

TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER

OTHER LOCAL REQUIREMENTS.



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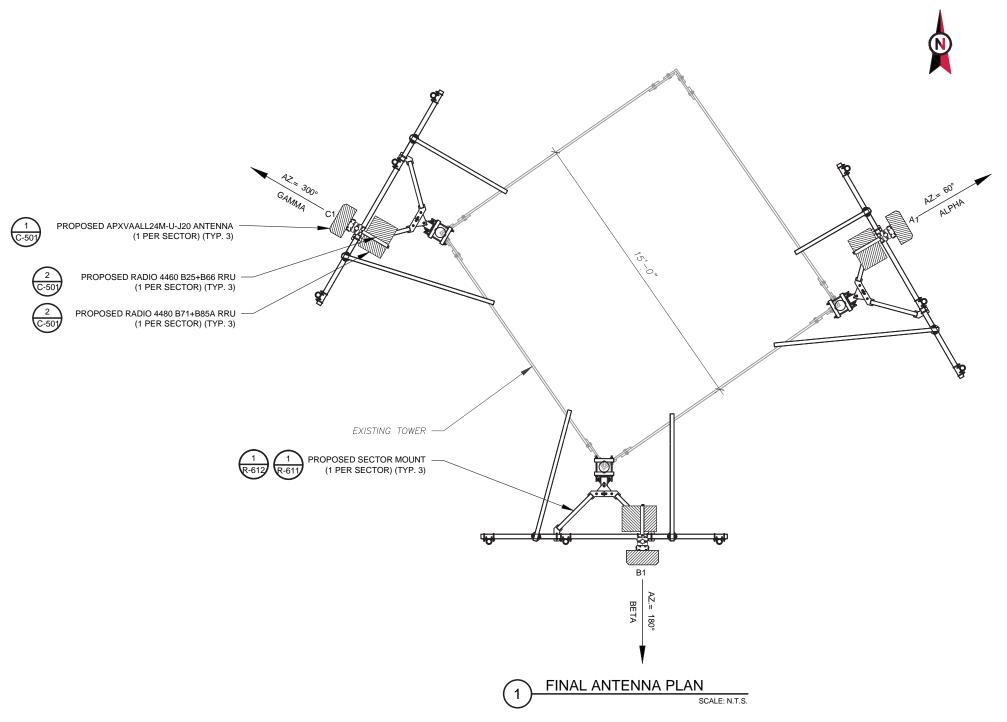
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ATC PROJ. #:	14922080_D2
CUST. ID:	ATC 372926
CUST. #:	5RA1119A

TOWER ELEVATION

SHEET NUMBER:

C-201

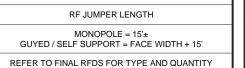


		FII	NAL ANTENNA/ COA	X SCHEDULE		
SECTOR	ANT.	MODEL#	RAD CENTER	AZIMUTH	ADDITIONAL TOWER MOUNTED EQUIPMENT	CABLE DESCRIPTION
ALPHA	A1	APXVAALL24M-U-J20		60°	RADIO 4480 B71+B85 RADIO 4460 B25+B66	
BETA	B1	APXVAALL24M-U-J20	187'	180°	RADIO 4480 B71+B85 RADIO 4460 B25+B66	(2) 2.00" HYBRID TRUNK 6/24 4AWG (232')
GAMMA	C1	APXVAALL24M-U-J20		300°	RADIO 4480 B71+B85 RADIO 4460 B25+B66	, ,

1. GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.

GC TO CAP ALL UNUSED PORTS.
 GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

ANTENNA SCHEDULE





SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112

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SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER,NC 27501



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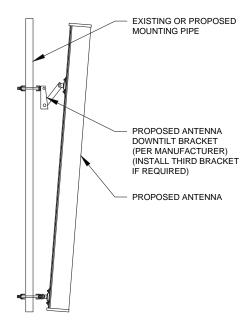
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CUST. ID:	ATC 372926						
CUST. #:	5RA1119A						

ANTENNA INFORMATION & SCHEDULE

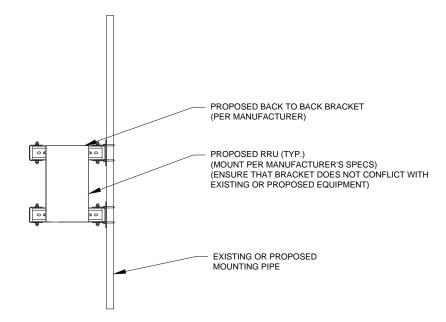
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C-401

EXISTING/PROPOSED MOUNTS AND/OR MOUNT
MODIFICATIONS NOT SHOWN FOR CLARITY. REFER TO
ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT
MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S



PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 P-1177

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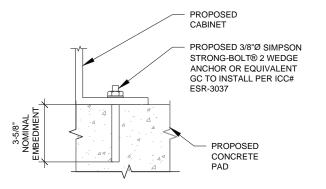
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l	CUST. ID:	ATC 372926
	CUST. #:	5RA1119A

MOUNT DETAILS

SHEET NUMBER:

C-501

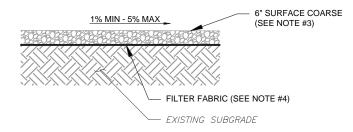
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NOTE:

INSTALL SIMPSON STRONG-TIE® STRONG-BOLT® 2 WEDGE ANCHOR(S) STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.STRONGTIE.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

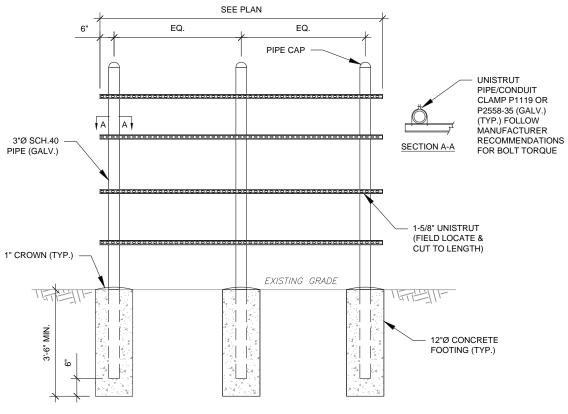




NOTES:

- CONTRACTOR TO CONTACT ALL UTILITIES FOR LOCATION OF UNDERGROUND SERVICES. SERVICE LOCATIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- 2. REMOVE ALL UNSUITABLE OR DELETERIOUS MATERIAL AS REQUIRED. COMPACT UNDERLYING SOIL TO 90% OF MAXIMUM DENSITY. REPLACE REMOVED SOIL WITH 8" LIFTS OF GRANULAR "B" MATERIAL TO A DEPTH OF 4" BELOW PROPOSED GRADE. COMPACT TO MINIMUM 95% OF MAXIMUM DRY DENSITY ALL COMPACTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT IBC. REVIEW WITH PROJECT MANAGER AND GEOTECT PRIOR TO CONSTRUCTION.
- SURFACE COARSE OF GRANULAR "A" MATERIAL SHALL CONSIST OF EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL, WITH 100% PASSING THROUGH 3/4" SIEVE AND NOT MORE THAN 5% PASSING THROUGH #4 SIEVE.
- 4. PROVIDE GEOTEXTILE FABRIC UNDER WASHED CHIPPED STONE COMPOUND UNLESS NOTED OTHERWISE. WOVEN GEOTEXTILE:US FABRICS: US 230 OR APPROVED EQUIVALENT. CONTRACTOR MAY SUBMIT DESIGN ALTERNATIVE AS OUTLINED IN THE AMERICAN TOWER MASTER SPECIFICATIONS.





H-FRAME NOTES:

- 1. IF IT IS NECESSARY TO EXTEND THE H-FRAME, AN ADDITIONAL POST WILL ALWAYS BE REQUIRED.
- PROPOSED UNISTRUTS TO BE FIELD CUT AND SHOULD NOT EXTEND MORE THAN 6 INCHES BEYOND THE LAST POST.
- 3. SPRAY ENDS OF UNISTRUT WITH COLD GALVANIZING SPRAY PAINT, ALLOW TO DRY, THEN COVER WITH RUBBER PROTECTIVE CAPS FOR SAFETY.
- 4. UNISTRUT TO BE CUT FLUSH WITH NO SHARP OR JAGGED EDGES.
- 5. ALL PROPOSED HARDWARE TO BE MOUNTED PER MANUFACTURERS SPECS.





A.T. ENGINEERING SERVICES, PLLC

1 FENTON MAIN
SUITE 300
CARY, NC 27511

PHONE: (919) 468-0112

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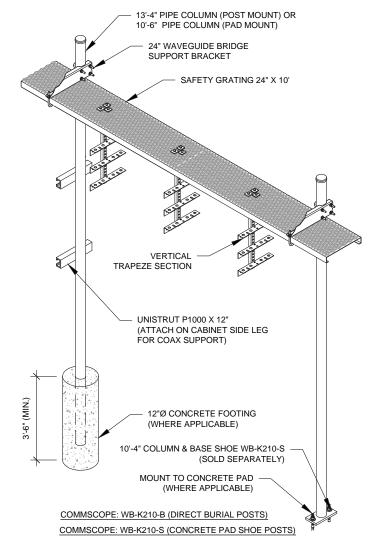
CUST. ID: ATC 372926

CUST. #: 5RA1119A

CONSTRUCTION DETAILS

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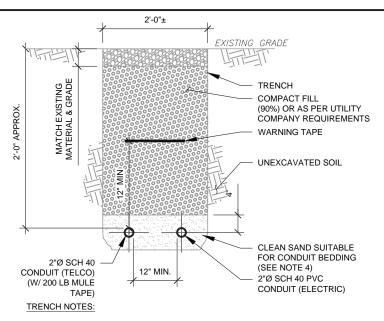
C-502



CONSTRUCTION NOTE:

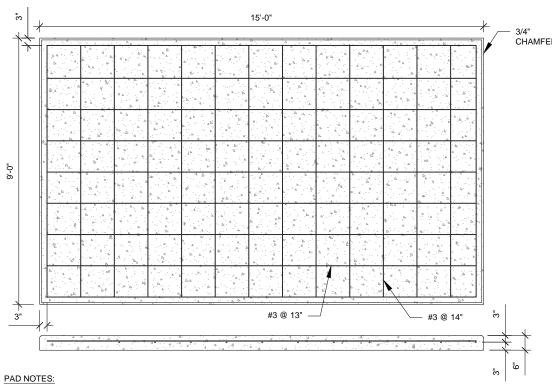
- INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPLIETENANCE
- 2. INSTALL PER MANUFACTURES SPECIFICATION.





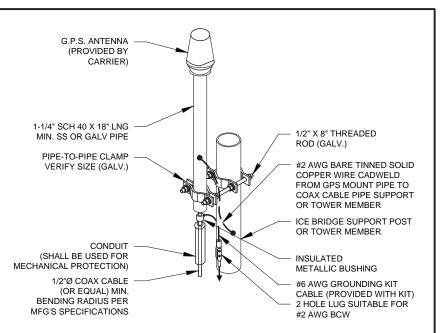
- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
- IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
- IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
- 4. CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.

TELCO AND POWER CONDUIT JOINT TRENCH SCALE: N.T.S.



PADS SHALL BE PRE-CAST MATCHING THIS DESIGN WHERE ALLOWED BY LOCAL JURISDICTION.

2. REFER TO CONCRETE & REINFORCED STEEL NOTES ON SHEET G-002 & ATC SPEC 033000 FOR CAST-IN-PLACE PADS.



NOTE

GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
 CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.

GPS ANTENNA ATTACHMENT DETAIL

SCALE: N.T.S.

6" EXISTING CRUSHED

STONE OR GRAVEL

(SEE NOTE 2)

3/4"
CHAMFER

FINISHED
GRADE

PROPOSED PAD

PAD NOTES:

COMPACTED FILL

EXISTING

- SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL.
 DELETRIOUS MATERIAL AND ORGANICS SHALL BE
 REMOVED.
- MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2' PERIMETER.
- USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT ANCHORAGE.
- FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.

GRAVEL PREPARATION
SCALE: NITS



A.T. ENGINEERING SERVICES, PLLC
1 FENTON MAIN

SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 P-1177

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REV.	DESCRIPTION	BY	DATE
<u> </u>	FOR CONSTRUCTION	JXB	12/02/24
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\triangle			

ATC SITE NUMBER: 372926
ATC SITE NAME:

ANGIER

T-MOBILE SITE NAME

ATC 372926

SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER,NC 27501

FAL:

OTH CAROL

OFFICE SOLUTION

OFFICE

Digitally Signed: 2025-01-01



ATC PROJ. #: 14922080_D2
CUST. ID: ATC 372926
CUST. #: 5RA1119A

CONSTRUCTION DETAILS

SHEET NUMBER:

C-503

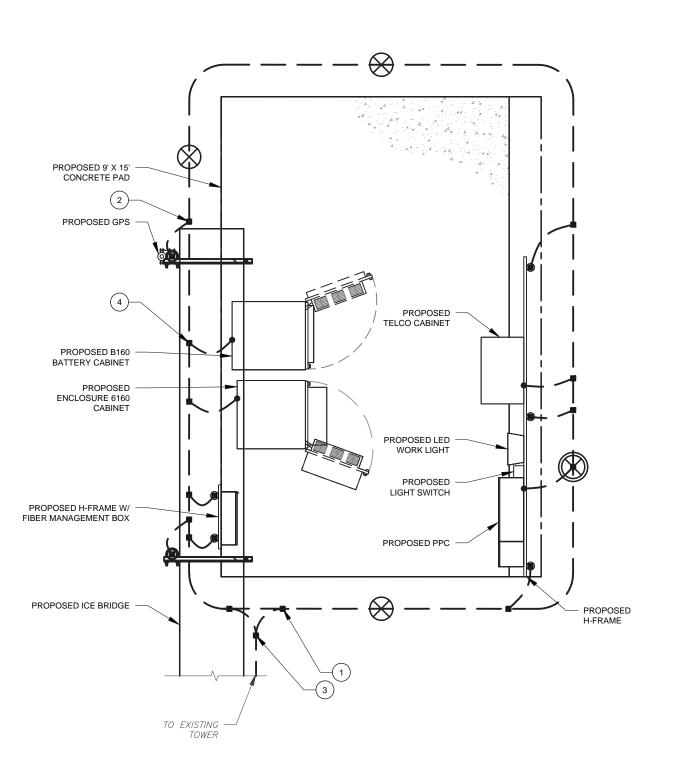
REVISION

REINFORCED PAD LAYOUT
SCALE: N.T.S

GROUNDING NOTES:

- ALL EQUIPMENT ENCLOSURES, DEVICES AND CONDUITS SHALL BE GROUNDED TO CONFORM WITH THE LATEST REQUIREMENTS OF THE NEC BY THE INSTALLATION OF A SEPARATE, GREEN, INSULATED GROUND CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS. GROUND CONDUCTORS SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS. GROUND CONDUCTORS SHALL BE CONTINUOUS IN LENGTH AND SHALL BE BONDED TO EACH ENCLOSURE THEY PASS THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING CONDUCTOR.
- GROUNDING CONDUCTORS SHALL:
 - A. BE #2 AWG SOLID BARE TINNED COPPER (SBTC) FOR ALL GROUNDING SYSTEM WIRE UNLESS OTHERWISE NOTED, OR OTHERWISE REQUIRED BY
 - B. BE MINIMUM 12" BEND RADIUS. KEEP NUMBER OF BENDS TO A MINIMUM.
 - C. AVOID LONG BONDING CONNECTION RUNS. MAKE DIRECT AS POSSIBLE.
 - D. NOT HAVE ANY U-SHAPED RUNS.
 - BE IN NON-METALLIC CONDUIT ONLY, IF IN CONDUIT.
 - BE PLACED THROUGH NON-METALLIC SLEEVES IN FLOORS, WALLS, CEILINGS,
 - G. PROTECTED IN NON-METALLIC CONDUIT WHERE EXPOSED ABOVE GRADE
- INSTALL ALL GROUNDING RINGS AND RADIALS WITH CONDUCTIVE CEMENT, SANKOSHA AS DISTRIBUTED BY ELECTRIC MOTION COMPANY, INC., WINSTED, CT 06098, OR AS SPECIFICALLY INDICATED. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- GROUND RINGS SHALL BE:
 - A. MINIMUM 30" BELOW GRADE, OR BELOW FROST LINE WHICHEVER IS
 - B. MINIMUM 2' FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS AND ALL CONDUCTIVE OBJECTS.
 - C. WITH MINIMUM 12" BEND RADII.
 - WITH ALL CONNECTIONS IN CONTACT WITH EARTH, BONDED BY EXOTHERMIC WELDING.
 - E. BONDED TO A SINGLE POINT GROUND (SPG) WITH A SINGLE WIRE AS INDICATED ON DRAWINGS.
- GROUND RODS SHALL BE:
 - A. MINIMUM 5/8" DIAMETER. MINIMUM 10' LONG.

 - COPPER-CLAD GALVANIZED STEEL OR STAINLESS STEEL.
 - D. PLACED IN UNDISTURBED SOIL AND BELOW THE FROST LINE.
 - E. INSTALLED WITH MINIMUM SEPARATION DISTANCE OF TWICE THE DEPTH OF THE ROD(S), OR AS INDICATED ON DRAWINGS.
 - F. MINIMUM TWO (2) RODS ON THE TOWER RING OR ONE (1) PER LEG WHICHEVER IS LARGER, MINIMUM FOUR (4) RODS ON EVERY EQUIPMENT BUILDING RING WITH ONE AT EACH CORNER OR AS INDICATED, MINIMUM ONE (1) ROD FOR POWER SERVICE GROUNDING ELECTRODE, AND MINIMUM ONE (1) ROD AT END OF EACH
- CONDUCTIVE OBJECTS, SUCH AS FENCES, SHALL BE BONDED TO THE GROUNDING SYSTEM IF WITHIN 20' OF THE TOWER GROUNDING SYSTEM, OR 5' OF ANY OTHER GROUNDED COMPONENT.



DETAILED GROUNDING PLAN

GROUNDING PLAN LEGEND:

--- EXISTING GROUND WIRE GROUND WIRE

MECHANICAL WELD

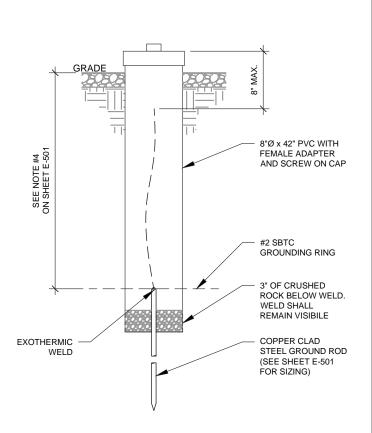
EXOTHERMIC WELD

5/8"Ø X 10' COPPER **GROUND ROD**

TEST WELL

GROUNDING KEYED NOTES:

- BOND TO TOWER GROUND RING
- #2 AWG BOND FROM VERTICAL H-FRAME AND ICE BRIDGE POST TO EXTERNAL GROUND RING (TYP. EVERY POST).
- #2 AWG SBTC BOND FROM TOWER GROUND RING TO
- EQUIPMENT BOND TO GROUND RING (TYP.)



TEST WELL DETAIL



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REV.	DESCRIPTION	BY	DATE
\triangle _	FOR CONSTRUCTION	JXB	12/02/24
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	ATC SITE NUMBER:		

372926 ATC SITE NAME:

ANGIER

T-MOBILE SITE NAME:

ATC 372926

SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER.NC 27501



Digitally Signed: 2025-01-01

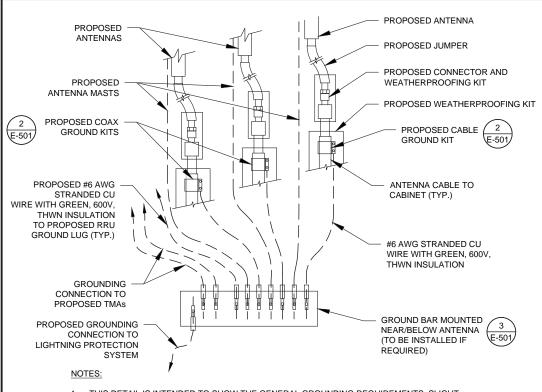
T. Mobile

ı	000111101110							
ı	CUST. #:	5RA1119A						
	CUST. ID:	ATC 372926						
ı	ATC PROJ. #:	14922080_D2						

GROUNDING PLAN AND NOTES

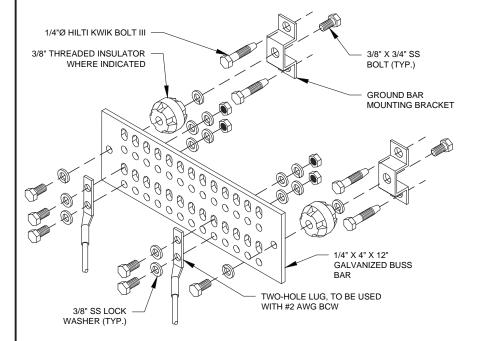
SHEET NUMBER:

E-101



- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.





GROUND BAR NOTES

- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S)
- 2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.



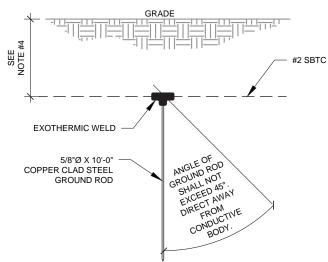
GROUND ROD DETAIL

TO ANTENNA ANTENNA CABLE 2 1/2"Ø MAX GROUNDING KIT PER CABLE MANUFACTURER'S RECOMMENDATIONS (ANDREW OR APPROVED EQUAL) #6 AWG STRANDED COPPER GROUND WIRE (GROUNDED TO GROUND BAR) TO GROUND BAR TO EQUIPMENT

- <u>GROUND KIT NOTES:</u>

 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

CABLE GROUND KIT CONNECTION DETAIL



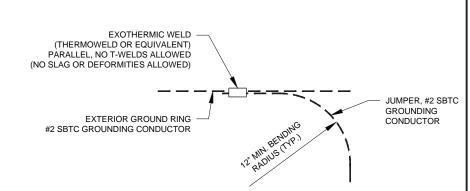
- SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY
- 2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
- CONDUIT TRENCHING DEPTHS AT 36" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
- ALL RING AND RADIAL DEPTHS AT 30" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.

3/8" X 1-1/4" SS BOLT 3/8" SS LOCK WASHER (EACH SIDE) (EACH SIDE) 1/4" X 4" X 6" GROUND BAR (ERICO P/N: EGBA14406CC OR EQUAL) TWO-HOLE LUG, TO BE USED WITH #2 AWG BCW (LOWER TOWER GROUND BAR ONLY)

GROUND BAR NOTES:

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER

TOWER GROUND BAR DETAIL



ATC SITE NUMBER:

DESCRIPTION

FOR CONSTRUCTION

AMERICAN TOWER®

A.T. ENGINEERING SERVICES, PLLC

1 FENTON MAIN SUITE 300

CARY, NC 27511

PHONE: (919) 468-0112

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CONSTRUCTION REVIEW OF THIS PROJECT.

CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS

AND ADVISE AMERICAN TOWER OR THE SPECIFIED

CARRIER OF ANY DISCREPANCIES. ANY PRIOR

ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

> 372926 ATC SITE NAME:

> > **ANGIER**

T-MOBILE SITE NAME:

ATC 372926

SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER,NC 27501

Digitally Signed: 2025-01-01

T. Mobile

ATC PROJ. #: 14922080_D2 CUST. ID: ATC 372926 5RA1119A CUST. #:

GROUNDING DETAILS

SHEET NUMBER

E-501

REVISION: 0

SCALE: N.T.S

TIE CONNECTION DETAIL

MAIN GROUND BAR DETAIL

PANEL DESIGNATION:		PANEL				_	l	LIGHTING	& APPI	LIANCE			SYSTEM			120/2	240V, 10	ð, 3W, 24	1 CKT	_	LOCATION:	TMO LEASE EQUIP	MENTA	REA
		TMO	MOUNTING	Э: _	SURFACE					MAIN BREAKER (MB):		200A		_	_									
			ENCLOSUR	RE:		N	EMA 3R				MAIN B	US RATII	NG:		22	25A			PANEL NOTES:	PROPOS	ED			
											MIN. A.I	.C. RATI	NG:		N	I/A			_					
CONNECT	TED				FEE	DER OF	BRANC	H CIRCU	JIT	FEEDER OR BRANCH CIRCUI						NCH CIRC	CUIT				CONN	ECTED		
LOAD (k\	VA)	BRIEF DESCRIPTION		BREAL	KER		CIRCUIT		POLE	CIRC.	1	CIRC. POLE		CIRCUIT BREAKER			AKER	ER BRIEF DESCRIPTION		LOAD (kVA)				
Α	В		1A	MPS F	POLES	WIRE	GND	COND.	NO.	NOTES		NOTES	NO.	COND.	GND	WIRE	POLES	AMPS	1		Α	В		
.01		SURGE		60	2	3-#6	#10	4"	1				2	1/2"	#12	2-#12	1	20		GFI	0.18			
C	0.01	SURGE		60	۷	3-#6	#10		3				4	1/2"	#12	2-#12	1	20		LIGHT		0.50		
.50		ENCLOSURE 6160		150	2	2-#3/0	#6	2"	5				6	1/2"	#12	2-#12	1	20	A	AV GFI	0.15			
7	7.50	ENCLOSURE 6160		150	-	2-#3/0	#0	2	7				8									0.00		
.00									9				10								0.00			
0	0.00								11				12									0.00		
.00									13				14								0.00			
C	0.00								15				16									0.00		
.00									17				18								0.00			
C	0.00								19				20									0.00		
0.00									21				22								0.00			
0	0.00								23				24									0.00		
7.5	7.5									Α	В	тот	AL								0.3	0.5		
										7.8	8.0	15	.9	CONNE	CTEDLO	OAD (kV	۹)							
										7.8	8.0	15	.9	DEMAN	D LOAD	(kVA)			DE	RATING FACTOR (80%)				

1 PANEL SCHEDULE

PROPOSED 200A, 240V, 3W, 2P UTILITY METER (MEET LOCAL UTILITY SPECS.) PROPOSED 200/2 SERVICE MAIN BREAKER SUITABLE AND LISTED FOR THE APPLICATION 3-#3/0 AWG CU, 1-#6 AWG CU G 2"C	GROUND PER NEC
PROPOSED 200A, 120/240V, 3W, 2P PPC (SEE PANEL SCHEDULE) PROPOSED INTEGRATED MANUAL TRANSFER SWITCH	PROPOSED GENERATOR PLUG SEE PANEL SCHEDULE FOR PROPOSED CIRCUITS PRIMARY CABINET 2" CONDUIT, FOR CAT6 2-#12, 1 #12G IN 1" CONDUIT FROM PRIMARY CABINET 2" CONDUIT, FOR FIBER SERVICE

ONE-LINE DIAGRAM

STANDARD CONDUIT USE TABLE									
CONDUIT TYPE	USE CASE	LOCATION	USE CASE EXAMPLE						
RMC (METALLIC)	AC, DC COMM	ABOVE GROUND	ABOVE GROUND PPC TO SSC						
PVC	AC POWER	UNDERGROUND	UNDERGROUND PPC TO SSC OR BACKHAUL TRANSPORT HUB TO SSC						
LFMC	AC, DC, COMM	MAX 6' PER CONDUIT RUN, ABOVE GROUND ONLY	TIGHT LOCATIONS BETWEEN HUB AND CONDUIT BUT NOT TO BE USED WHERE IT CAN BE STEPPED ON						
EMT	INDOOR AC, DC COMM	INDOOR NOT EXPOSED TO THE OUTDOOR ENVIRONMENT (MUST BE DRY)	CIRCUIT PANEL TO JUNCTION BOX						
LFNC	GROUND WIRE	CONCEALING AND PROTECTING BTCW RISERS ONLY	GROUND RING TO MGB OR SSC						

EXCEPTION CONDUIT USE TABLE									
CONDUIT TYPE	USE CASE	LOCATION	USE CASE EXAMPLE						
EMT (NOT PREFERRED)	OUTDOOR DC, COMM	OUTDOOR WHEN USED WITH WATERTIGHT HUBS ONLY	BETWEEN EQUIPMENT AND BATTERY CABINET OR EQUIPMENT TO EQUIPMENT CABINETS FOR INTER CABINET CONNECTION						
RMC NONMETALLIC (ALUMINUM)	OUTDOOR/INDOOR PER NEC GUIDLINES	ABOVE GROUND	MAT BE USED AS A LOWER COST ALTERNATIVE TO METALLIC RMC, MUST MEET OR EXCEED FEDERAL SPEC: WW-C-540C, UL-6A, ANSI C80.5, NEC 344.10 (A) ALLOWS THE USE OF EITHER ALUMINUM OR GALVANIZED FITTINGS						

(3)

CONDUIT USE TABLES

NOT

- ALL EQUIPMENTS' SHORT-CIRCUIT CURRENT RATING SHALL EXCEED AVAILABLE FAULT CURRENT PER UTILITY
- CURRENT PER UTILITY

 2. CONTRACTOR TO INSTALL HANDHOLES AT EVERY 3RD 90° TURN

AMERICAN TOWER®

A.T. ENGINEERING SERVICES, PLLC
1 FENTON MAIN

SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 P-1177

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⚠.	FOR CONSTRUCTION	JXB	12/02/24	
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ATC SITE NUMBER: 372926
ATC SITE NAME:

ANGIER

T-MOBILE SITE NAME:

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SITE ADDRESS: 2135 JOHNSTON COUNTY ROAD ANGIER,NC 27501

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Digitally Signed: 2025-01-01

T. Mobile

ATC PROJ. #: 14922080_D2
CUST. ID: ATC 372926
CUST. #: 5RA1119A

PANEL SCHEDULE & ONE-LINE DIAGRAM

SHEET NUMBER:

E-601

0

	Proposed RAN Equip	ment
	Template: 67E998E 6160	(LRP)
Enclosure	1	2
Enclosure Type	B160	Enclosure 6160_v2 AC
Transport System		CSR IXRe V2 (Gen2)
Hybrid Cable System		(Hybrid Trunk 6/24 4AWG 80m (x2)
Baseband		RP 6672 N600 N1900 N2100 L600 L1900 L2100

RAN Scope of Work:

Install: (2) HCS 6/24 4AWG 80m, (1) RP6672, (1) E6160, (1) B160, (1) IXR-e

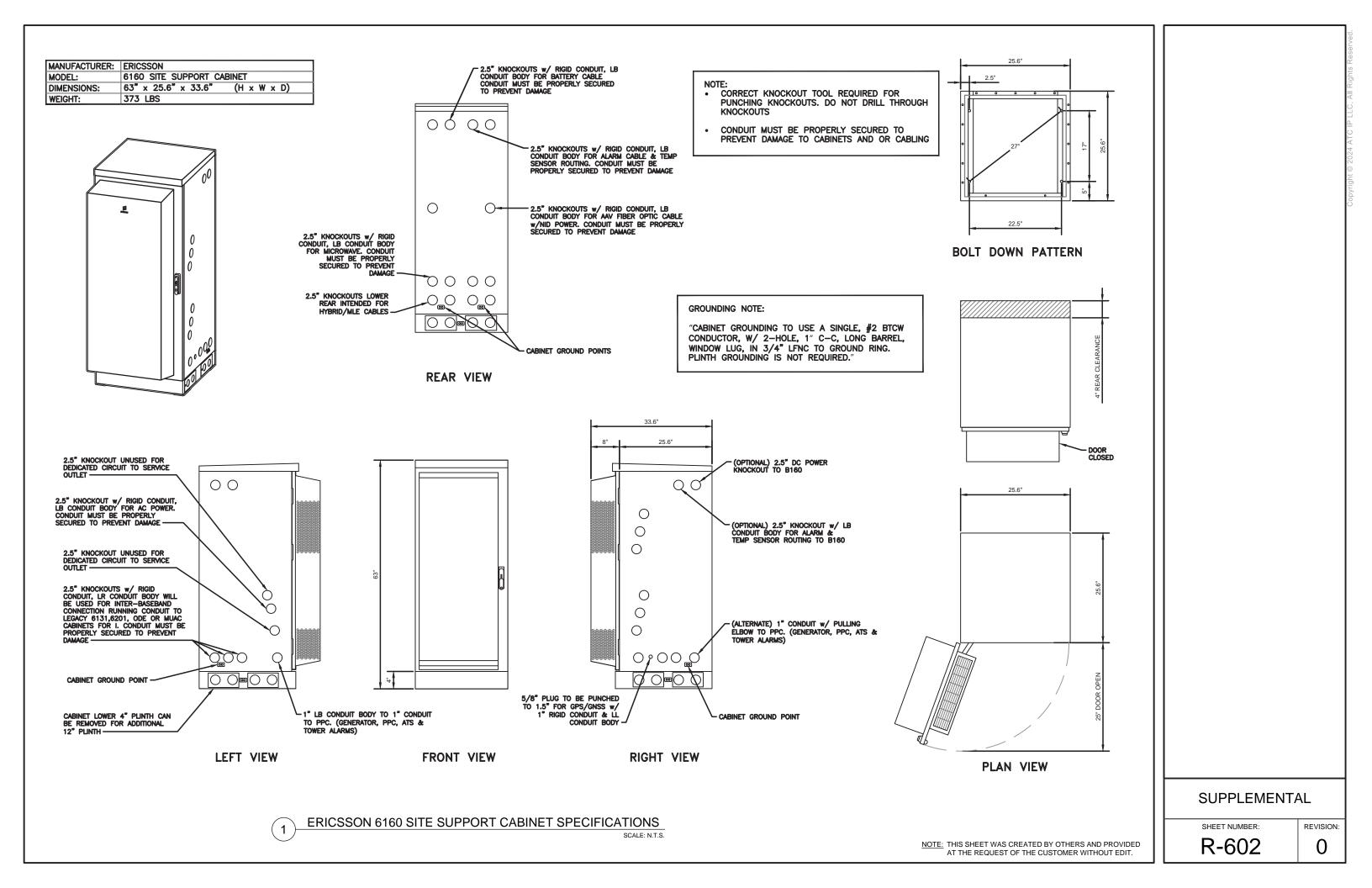
(1) CABINET CONFIGURATION

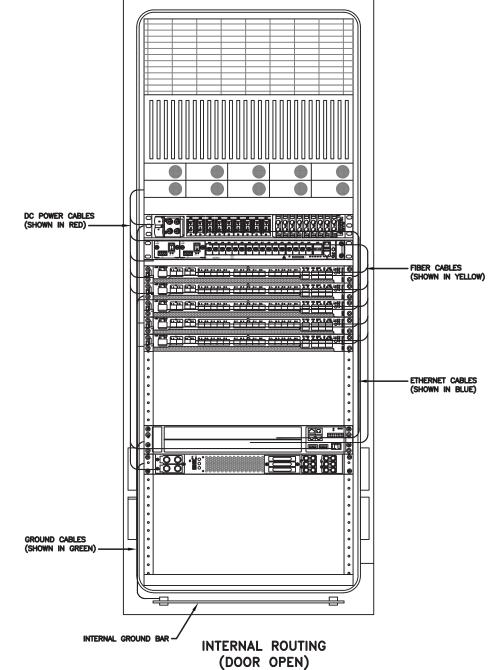
SUPPLEMENTAL

SHEET NUMBER:

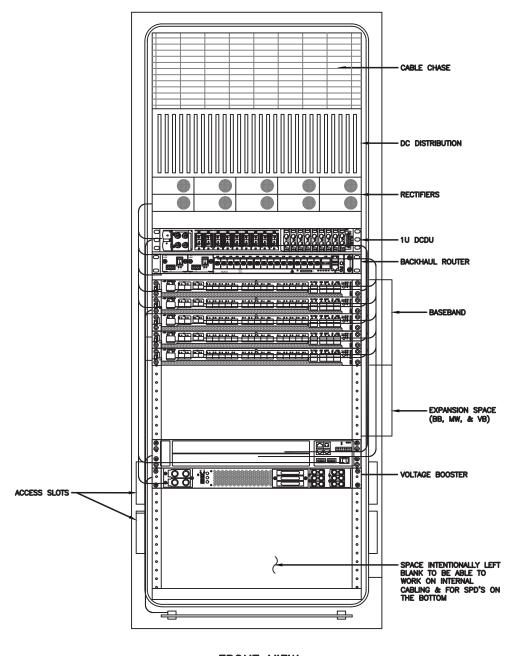
R-601

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RACK ASSIGNMENTS					
RU SLOTS	DESCRIPTION				
1	DC DISTRIBUTION				
2					
3					
4					
5	RECTIFIER SHELF				
6	RECTIFIER SHELF				
7	FIBER BOX				
8	DCDU				
9	BACKHAUL ROUTER				
10	BACKHAUL ROUTER				
11	1ST BASEBAND				
12	2ND BASEBAND				
13	3RD BASEBAND				
14	4TH BASEBAND				
15	5TH BASEBAND				
16					
17	EXPANSION				
18					
19					
20	EXPANSION / LEGACY				
21	BASEBAND / VOLTAGE BOOSTER				
22	VOLTAGE BOOSTER				
23					
24	OPEN SPACE FOR SPD ACCESS				
25					



FRONT VIEW (DOOR OPEN)

SUPPLEMENTAL

SHEET NUMBER:

R-603

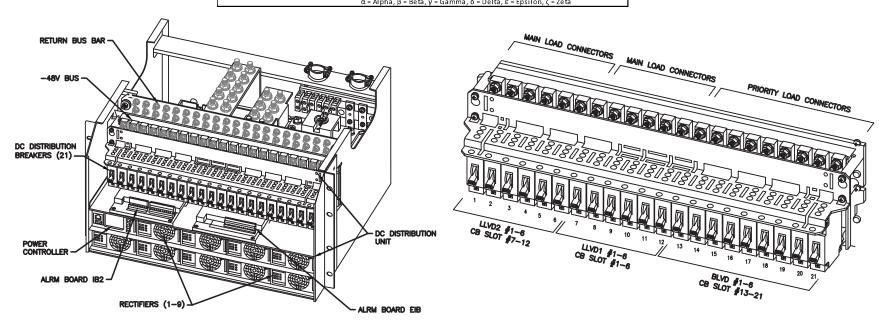
ERICSSON 6160 CABINET DETAILS

REVISION:

0

NOTE:
THIS IS FOR REFERENCE ONLY, CHECK
FOR SPECIFIC DETAIL IN T-MOBILE
CABINET SPECIFIC INSTALLATION GUIDES

Ckt :	# 1 2 3 4	F	w/ DCDU Later Design Post- 4460 and Post-4480 PS-2*/Future	w/ DCDU 4 and 6 Sector designs Radio 4460 B25/66 ζ-1 Radio 4460 B25/66 ζ-2	
	2	F			
	3		uture	Radio 4460 B25/66 7-2	
		PSII 4813 feeding R25		Radio 4460 B25/66 ζ-2	
17.00	4		PSU 4813 feeding B25/66 α, β and γ (AIR 1641s)		
Γ			(Air 6449s and Radio 4480s)		
	5	201	PSU 4813 feeding B41 α, β and γ (Air 6449s)		
	6	PSU			
	1	PSU 4813 feeding B71/12	2511 4040 6 11 274 440	, β and γ (Radio 4480s)	
	2	α, β and γ (Radio 4449s)	PSU 4813 feeding B71/12 a		
.VD2	3	Future		Radio 4460 B25/66 δ-1	
5.17	4	Future		Radio 4460 B25/66 δ-2	
	5	Future		Radio 4460 B25/66 ε-1	
	6	F	Radio 4460 B25/66 ε-2		
			Router PS-1		
	2	Radio 4415 B25/66 α	Radio 4460 B25/66 α-1		
	3	Radio 4415 B25/66 β	Radio 4460 B	25/66 α-2	
	4	Radio 4415 B25/66 γ	Radio 4460 B	25/66 β-1	
- 1	5	PSU 4813 feeding B2/25	Radio 4460 B	25/66 β-2	
43.2V	6	α, β and γ (Radio 4424s)	nd γ (Radio 4424s) Radio 4460 E		
	7	Future	Radio 4460 B	25/66 γ-2	
Ī	8				
	9				
3		1 2 3 5.1V 4 5 6 6 1 2 3 3 4 4 5 5 6 6 7 7 8 8	6	PSU 4813 feeding B71/12 PSU 4813 feeding B71/12 α Q α, β and γ (Radio 4449s) PSU 4813 feeding B71/12 α	



POWER SUBRACK

DC DISTRIBUTION

ERICSSON 6160 ELECTRICAL DETAILS

SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

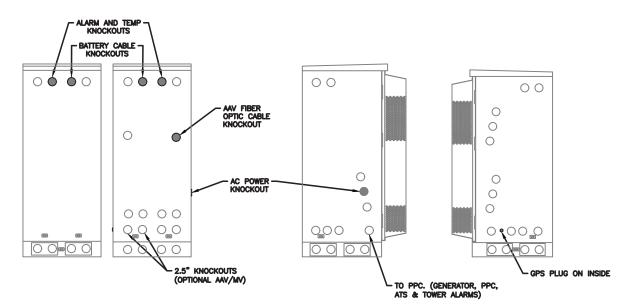
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SHEET NUMBER:

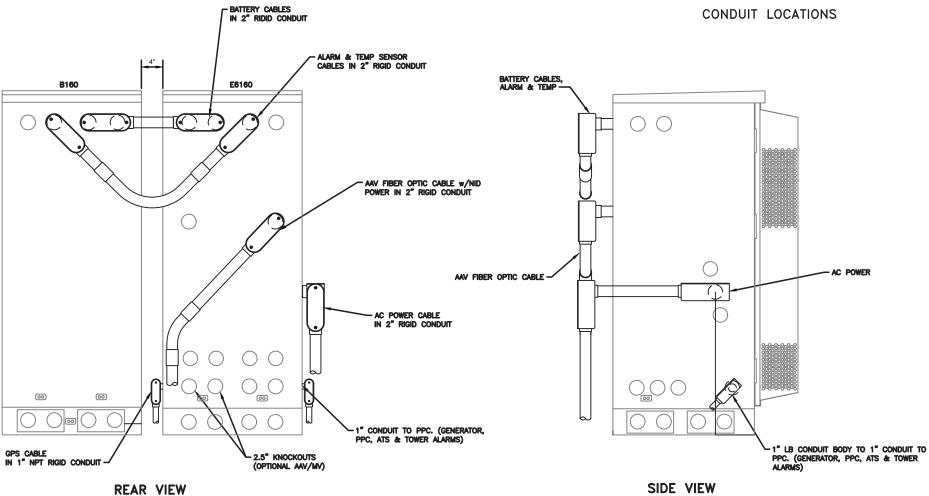
R-604

NOTE:

- 1. ALL CONDUIT AND FITTING ENTRANCES INTO CABINETS AND ENCLOSURES MUST UTILIZE MYERS OR EQUIVALENT HUBS OR SEALING WASHERS TO PREVENT WATER ENTRY/SEEPAGE INTO CABINETS AND ENCLOSURES.
- 2. (LIQUIDFLEX) FLEXIBLE METALLIC CONDUIT (LFMC) & ASSOCIATED FITTINGS CAN BE USED AS NEEDED BUT ONLY FOR TIGHT CONDUIT BENDS AND RUNS SUBJECT TO UL AND NEC LIMITATIONS. 6' MAX PER
- 3. POWER CONDUIT BODY ATTACHED WITH SHORT NIPPLE AND SEALING WASHER INSIDE & OUT. (FOR DOOR HOOD CLEARANCE)
- 4. PULLING ELBOWS MAY BE USED IN LIEU OF A CONDUIT BODIES WHEN CLEARANCE IS LIMITED.
- 5. ALL EXTERNAL ALARM CONDUITS ARE TOO TERMINATE AT THE PPC WITH A SINGLE 1" ALARM CONDUIT TO THE 6160.
- 6. (DO NOT USE CHASE NIPPLES) CONDUIT SHOULD HAVE SEALING WASHERS INSIDE AND OUT W/ LOCK NUT AND CAP.



CONDUIT LOCATIONS



ERICSSON 6160/B160 CONDUIT ROUTING DETAILS

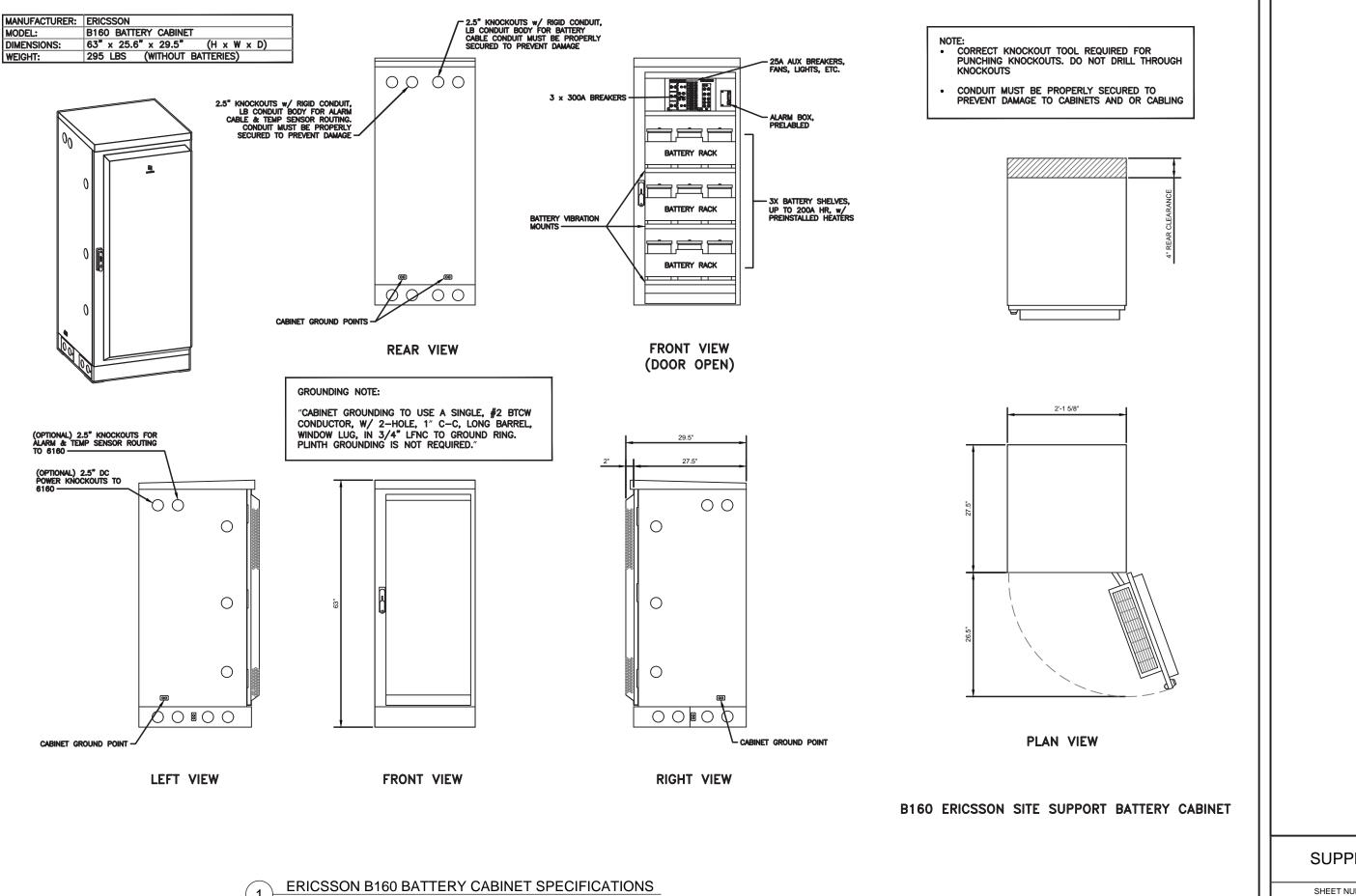
SUPPLEMENTAL

SHEET NUMBER:

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED

AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

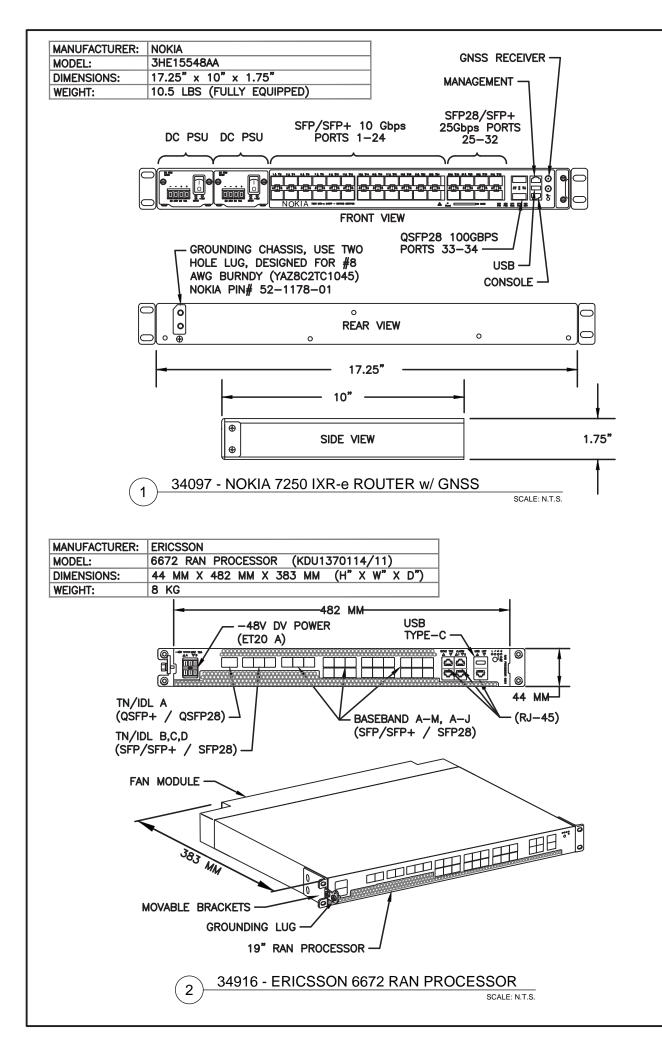
R-605



SUPPLEMENTAL

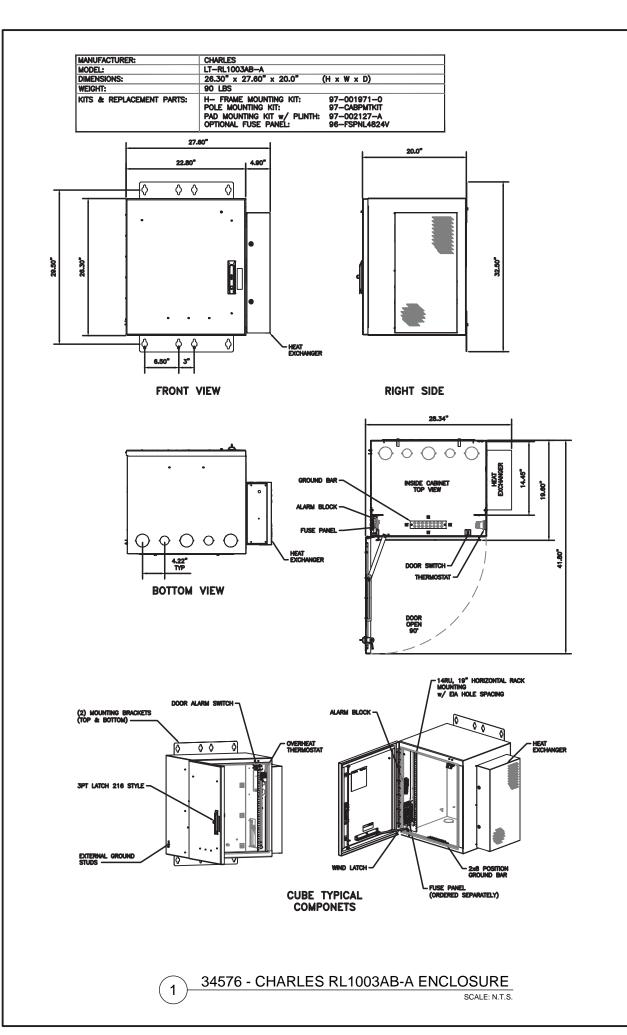
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED

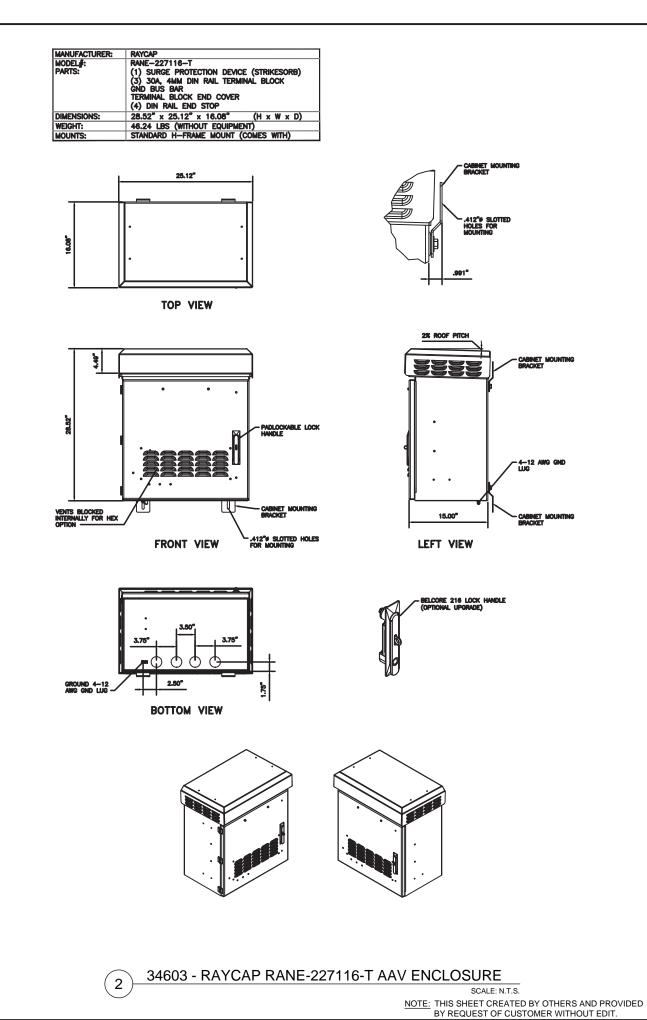
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SUPPLEMENTAL SHEET NUMBER: REVISION: R-607 0

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.





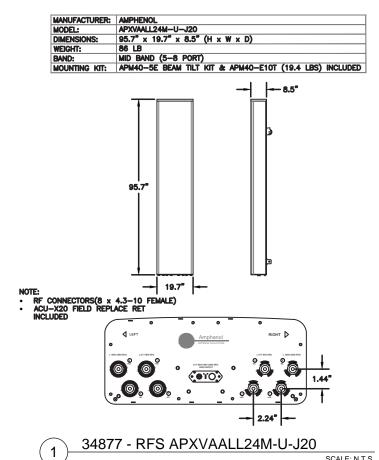
SUPPLEMENTAL

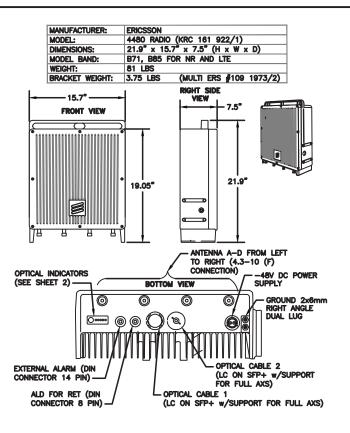
SHEET NUMBER:

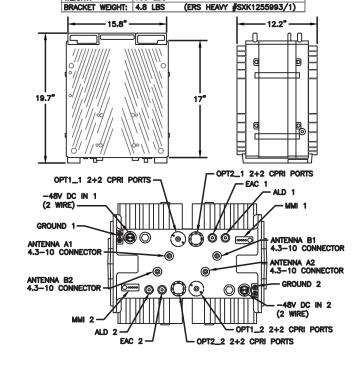
R-608

REVISION:

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ERICSSON

4460 RADIO B2/25 B66 (KRC 161 912/3)

19.7" x 15.8" x 12.2" (H" x W" x D")

MANUFACTURER: ERICSSON MODEL: 4460 RAD DIMENSIONS: 19.7° x 1

34373 - ERICSSON 4460 RADIO B2/25 B66

SCALE: N.T.S.

SUPPLEMENTAL

REVISION:

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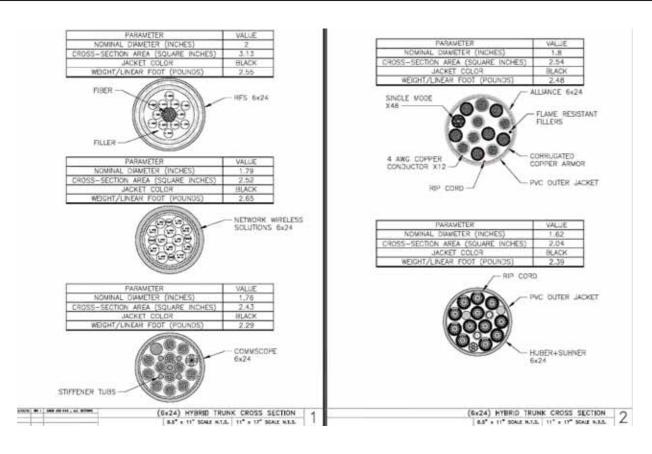
SHEET NUMBER:

R-609

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SCALE: N.T.S.

34372 - ERICSSON 4480 RADIO SCALE: N.T.S.



Cable Vendor	Cable Type	Nominal OD (in.)	C.S. Area (eq. in.)	Weight (lbs./ft)	enTop Breakout	MAX ENTITLEMENT	
4C\$ 2.0	6 AWG 25' to 225' cable lengths			Section 100	HCS Pendant (Breakout) Dimension (
Allance	6x24 6AWG	1.46	1.67	1.61	16.36 x 9.30 r 5.79 (sq./in.152.15)	Nominal CO (in.)	1.55
Commiscope	dx24 dAWG	1.55	1.89	1.71	19.37 x 10.83 x 5.12 (sq /in 235.07)	C.S. Area (sq./in.)	1.89
W/E	6x24 6AWG	1.48	1.72	1.61	15.95 x 10.20 x 3.21 (sq./in 162.69)	Weight (libs./ft)	1.71
Ampherol	6x24 6AWG	1.46	1.67	1.65	19.37 x 10.63 x 5.12 (sq./in 209.76)	Pendant (sq/in)	233.07
	4 AWG 250" to 450" cable lengths				WALL SUIVE SATISFACTOR OF THE WILL		
Alliance	6x24 4AWG	1.8	2.54	2.48	16.36 x 9.30 x 5.79 (sq./in 152.15)	Nominal OD (In.)	1.8
Commiscope	6x24 4AWG	1.76	2.43	2.4	19.37 x 10.83 x 5.12 (sq./in 235.07)	C.S. Area (sq./in.)	2.54
ws.	6x24 4AWG	1.79	2.52	2.65	15.95 x 10.20 x 3.21 (sq./in 162.69)	Weight (lbs./ft)	2.65
Amphenol .	6x24 4AWG	1.71	2.3	2.55	19.37 x 10.83 x 5.12 (sq./in 209.78)	Pendant (sq/ln)	235.07
5x24					6x24 Canister Breakout - OD x Length (in.)		
Vitance	6x24 4AWG	1.8	2.54	2.48	5.11 x 9.45 (c.s. Area 7.60)	Nominal CO (in.)	2
Commiscope	6x24 4AWG	1.76	2.43	2.29	2.68 s P.81 [c.s. Area 5.64]	C.S. Area (sq./in.)	3.13
48.5	6x24 4AWG	1.62	2.04	2.39	3.82 x 9.26 (c.s. Arms 11.46)	Weight (bs./ft)	2,65
WS	6x24 4AWG	1.79	2.52	2.65	2.99 s 8.82 (c.s. Ansa 7.02)	Canister (sq/in)	11.46
WS.	6x24 4AWG	2	3.13	2.55	2.88 x 9.72 (c.s. Area 6.51)		

(6x24) HYBRID TRUNK ENTITLEMENT INFORMATION | 3

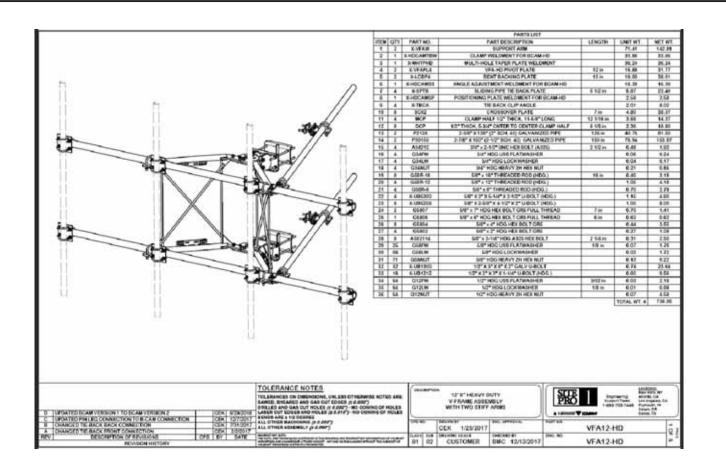
HYBRID TRUNK INFORMATION (6X24)

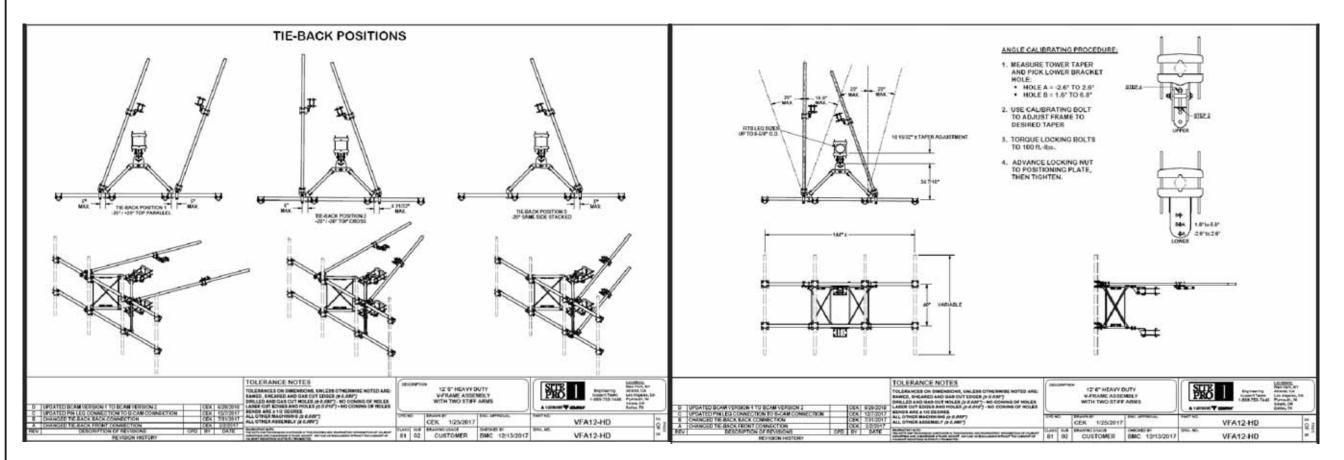
SCALE: N.T.S.

SUPPLEMENTAL

SHEET NUMBER:

R-610





MOUNT SPECIFICATIONS

SUPPLEMENTAL

SHEET NUMBER:

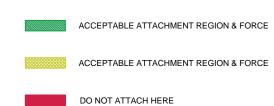
R-611

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STIFF ARM LOCATION NOTES:

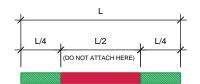
- TIE BACK SHALL BE CONNECTED PER MANUFACTURER SPECIFICATIONS. IF THE ANGLE OF ATTACHMENT DEVIATES FROM THE MANUFACTURER RANGES, A SITE SPECIFIC ANALYSIS THAT CONSIDERS THESE EFFECTS ON BOTH THE TOWER AND THE MOUNT WILL BE NEEDED.
- ACCEPTABLE STIFF ARM TO TOWER MEMBER ATTACHMENT LOCATIONS:
- A) INTERIOR BRACING MEMBERS:

-WITHIN 25% OF EITHER END OF THE MEMBER'S LENGTH. IF ATTACHMENT IS NOT WITHIN 25% OF EITHER END OF THE MEMBERS LENGTH THEN ADJUST ATTACHMENT POINT TO MINIMIZE DISTANCE TO END OF MEMBER WHILE FOLLOWING MANUFACTURERS SPECIFICATIONS.

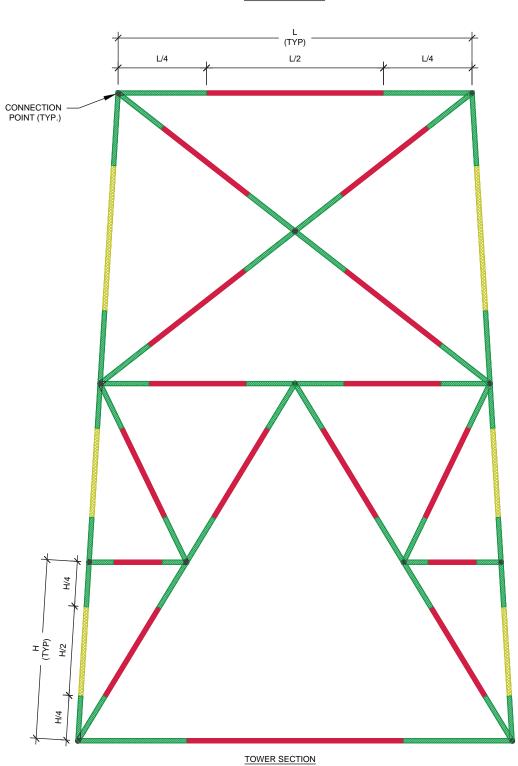


H/2

TOWER LEG



INTERIOR BRACING



SUPPLEMENTAL

SHEET NUMBER:

R-612

REVISION:

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