

AT&T MOBILITY ANTENNA AMENDMENT PLAN



AMERICAN TOWER®

ATC SITE NAME: SPOUT SPRINGS NC

ATC SITE NUMBER: 280251

AT&T MOBILITY SITE ID: SINC001601

AT&T MOBILITY FA LOCATION CODE: 12626511

AT&T MOBILITY SITE NAME: 368-389

AT&T MOBILITY USID: 135237

SITE ADDRESS: 641 NC HWY 24-87

CAMERON, NC 27332-6191

AT&T MOBILITY IWM JOB NUMBER(S): **WSVWN0054969**, WSVWN0055285, WSVWN0056420, WSVWN0057530, WSVWN0056136, WSVWN0055668. AT&T MOBILITY PACE JOB NUMBER(S): **MRVWN045043**, MRVWN044637, MRVWN044754, MRVWN044933, MRVWN044420, MRVWN044489.







Electrical Only

COMPLIANCE CODE	PROJECT	SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
LL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED	SITE ADDRESS: 641 NC HWY 24-87		THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: TOWER WORK:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2018 NORTH CAROLINA BUILDING CODE (NCBC) 2. 2020 NATIONAL ELECTRIC CODE (NEC) WITH NC AMENDMENTS 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES				G-001	TITLE SHEET	1	04/22/25	SSP
	,	NC 27332-6191	REMOVE (6) ANTENNA(S) AND (12) RRU(s).	G-002	GENERAL NOTES	1	04/22/25	SSP
	COUNTY: HARNETT GEOGRAPHIC COORDINATES: LATITUDE: 35.26477		INSTALL (15) MOUNT PIPE(S), (18) U-BOLT(S), (6) CROSSOVER PLATE KIT(S), (6) BACK TO BACK RRU BRACKET(S), (9) ANTENNA(S), AND			•		
			(9) RRU(s).	G-003 - G-007	APPENDIX B	1	04/22/25	SSF
			EXISTING (3) RRU(s), (3) SQUID(S), (2) 0.39" FIBER TRUNK(S), (4) 0.78"	C-001	OVERALL SITE PLAN	1	04/22/25	SSF
	LONGITUE	E: -79.04823	8 AWG 6 DC POWER TRUNK(S), (1) 0.92" 6 AWG 6 DC POWER	C-101	DETAILED SITE PLAN	1 1	04/22/25	SSF
	GROUND ELEVATION: 334' AMSL ZONING INFORMATION:		TRUNK(S), (1) 3/8" RET CONTROL CABLE(S), AND (2) 2" CONDUIT(S) TO REMAIN.	C-102	DETAILED EQUIPMENT LAYOUT	1	04/22/25	SS
			TOWER WORK:	C-201	TOWER ELEVATION	1	04/22/25	SS
		JURISDICTION: HARNETT COUNTY	REMOVE (1) ALPHA TE45 INDOOR POWER PLANT(S). INSTALL (1) VERTIV 7100 POWER PLANT(S), (8) VERTIV -58V CONVERTER(S), (10) VERTIV -48V RECTIFIER(S), (1) 6672 BBU(S)	C-401	ANTENNA INSTALLATION	1	04/22/25	SSI
	PARCEL ID: 9	585-62-8794.000		C-402	ANTENNA SCHEDULE	1	04/22/25	SSF
	PROJECT TEAM	(12) VERTIV 50A DC BREAKER(S), AND (3) VERTIV 30A DC BREAKER(S).	C-501	CONSTRUCTION DETAILS	1	04/22/25	SSF	
	TOWER OWNER: APPLICANT: AMERICAN TOWER AT&T MOBILITY 10 PRESIDENTIAL WAY WOBURN, MA 01801		E-101	ELECTRICAL DETAILS	1	04/22/25	SSF	
			E-101	ELECTRICAL DETAILS	1	04/22/25	SSF	
			E-103	GROUNDING PLAN	1	04/22/25	SSF	
	,			E-501	GROUNDING DETAILS	1	04/22/25	SSI
POWER COMPANY: CENTRAL EMC PHONE: (800) 282-8610	ENGINEER: PROPERTY OWNER:	PROJECT NOTES	R-601 - R-609	SUPPLEMENTAL				
TELEPHONE COMPANY: WINDSTREAM	TEP ENGINEERING, PLLC 326 TRYON RD	HMS KIDS INC 3035 NC 87 S	THE FACILITY IS UNMANNED.					
PHONE: (800) 347-1991	RALEIGH, NC 27603	CAMERON, NC 28326-7681	A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.					
811	PROJECT LOCA	TION DIRECTIONS	THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.					+
			NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.					+
			HANDICAP ACCESS IS NOT REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN					+
	NC 24/87 N FROM FAYETTEVII	LE NO ACCESS ROAD RIGHT	ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED					
Kbolow		IGS PLAZA ON RIGHT.	REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE					
Know what's below.			COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF					
Call before you dig.			TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).					



TEP

TEP ENGINEERING, PLLC 326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net N.C. LICENSE #P-1403

EP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN INFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL NGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO. C., OELEWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH AROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING, C., A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY GENERAL ONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE IMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH

REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIMINARY	APM	03/12/25
△_	100% CONSTRUCTION	APM.	03/20/25
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ı		
1	DATE DRAWN:	04/22/25
	ATC JOB NO:	14884017
	CUSTOMER NAME:	368-389
ı	CUSTOMER ID:	SINC001601

TITLE SHEET

SHEET NUMBER:

G-001

1

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, AT&T MOBILITY "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. 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
- E. TOWER LIGHTING
- F. GENERATORS & LIQUID PROPANE TANK
- G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- H. ANTENNAS (INSTALLED BY OTHERS)
- I. TRANSMISSION LINE
- J. TRANSMISSION LINE JUMPERS
- K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
- L. TRANSMISSION LINE GROUND KITS
- M. HANGERS
- N. HOISTING GRIPS
- O. BTS EQUIPMENT
- 2. 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 AT&T MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANS//EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
 UTILITIES PRIOR TO START OF CONSTRUCTION.
- 5. 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.
- 7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- 8. 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, ANCHOR BOLTS. FTC.
- 11. 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 AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO
- 13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER
- 15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD IMMEDIATELY.
- 17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- 18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- 20. CONTRACTOR SHALL FURNISH AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC), WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF
- 21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY 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 ALL ITEMS

PROVIDED.

- 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY 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.
- 27. CONTRACTOR SHALL NOTIFY AT&T MOBILITY 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 APPROVAL
- 28. 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 TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
- 29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
- 30. 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.
- 31. 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.
- 32. 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 AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- 33. 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 AS SPECIFIED.
- 34. AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
- 35. AT&T MOBILITY 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 AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- 1. WORK INCLUDED:
- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY 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 PERSONNEL.
- 3. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
- 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 RFS "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:
- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR FOLIAL
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

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.



LANS PREPARED BY:



326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net N.C. LICENSE #P-1403

DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OFFICIAL CARDIMA PROFESSIONAL INTERPROPERTY OF THE PROBINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAIL PROFING LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OFCO LLC, A DELAWAGE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
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AT&T MOBILITY SITE NUMBER:

SINC001601

AT&T MOBILITY SITE NAME:

368-389

SITE ADDRESS: 641 NC HWY 24-87 CAMERON, NC 27332-6191



SEAL:

04/22/2



DATE DRAWN: 04/22/25
ATC JOB NO: 14884017
CUSTOMER NAME: 368-389
CUSTOMER ID: SINC001601

GENERAL NOTES

SHEET NUMBER:

G-002

1

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)

N. CD ' 4	anove annua va					
Name of Project: Address: 641 NC HW				7in	Codo 27222 6101	
		Phone # (919) 466 - 5383		Code 27332-6191 fail AaronDial@AmericanTower.com	
	ed Agent: AARON DIAL		_/	E-N		
Owned By:		ity/County	☐ Private		State	
Code Enforcement	nt Jurisdiction:	ity	County HA	RNETT	State	
CONTACT:						
DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE #	# E-MAIL	
Architectural					sbrantley@tepgroup.net	
Civil Electrical	TEP ENGINEERING, PLLC	Scott C. Brantley	048226	(919)661-6351	soranney@tepgroup.net	
Fire Alarm					<u> </u>	
Plumbing						
Mechanical	•			()		
Sprinkler-Standp Structural		-				
	>5' High				<u> </u>	
Other						
("Other" should i	nclude firms and individ	uals such as truss,	precast, pre-engin	eered, interior of	lesigners, etc.)	
2018 NC BUILDING CODE: New Building Addition Renovation 1st Time Interior Completion Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Prescriptive Repair Chapter 14						
BASIC BUILDI					□ 37. A	
Construction Ty (check all that ap	· <u> </u>	□ II-A □ II-B	☐ III-A ☐ III-B	□IV	∐ V-A ∏ V-B	
Sprinklers:	pry)			FPA 13R	⊔ V-В NFPA 13D	
Standpipes:	No ☐ Yes Cla			et Dry	111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Fire District:	No ☐ Yes	Flood Hazard				
	ons Required: No		the local inspection		or additional	
Special Inspection	ons required. M 140		res and requirement		or additional	
		<u> </u>				

7	Gross Building Area Table
FLOOR	EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL
3 rd Floor	N/A
2 nd Floor	N/A N/A
Mezzanine	
1st Floor	230 SQ FT EQUIPMENT SHELTER
Basement	N/A
TOTAL	230 SQ FT EQUIPMENT SHELTER
	ALLOWABLE AREA
Primary Occupa	ancy Classification(s): Select one Select one Select one Select one Select one
Assembly	\square A-1 \square A-2 \square A-3 \square A-4 \square A-5
Business	
Educational	
Factory	F-1 Moderate F-2 Low
Hazardous	☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional	☐ I-1 Condition ☐ 1 ☐ 2
	\square I-2 Condition \square 1 \square 2
	\square I-3 Condition \square 1 \square 2 \square 3 \square 4 \square 5
	□ I-4
Mercantile	Π .
Residential	\square R-1 \square R-2 \square R-3 \square R-4
Storage	S-1 Moderate S-2 Low High-piled
2101460	Parking Garage Open Enclosed Repair Garage
Hillity and N	Aiscellaneous
- ,	pancy Classification(s): N/A
Incidental Uses	· · · · · · · · · · · · · · · · · · ·
Special Uses (Cl	napter 4 – List Code Sections): N/A
Special Provisio	ns: (Chapter 5 – List Code Sections): N/A
Mixed Occupan	cy: No Yes Separation: Hr. Exception:
☐ Non-	-Separated Use (508.3) - The required type of construction for the building shall be determined to applying the height and area tions for each of the applicable occupancies to the entire beconstruction, so determine to the entire building.
☐ Sepa	construction, so determine to the entire building. The area of the occupancy shall be such that the sum of the allowable floor and all not exceed 1. The area of Occupancy A the Area of Occupancy B the Area of Occupancy
	al Area of Occupancy A + upancy B ≤ 1
Allowab	ole Area of Occupancy A Occupancy B
	+ = <u>≤ 1.00</u>





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IFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONA
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C.A DELAWARE LIMITED LIABILYT COMPANY, TEP ENGINEERING, LLC, A NORTH

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APPENDIX B

REVISION:

SHEET NUMBER:

G-003

STORY	DESCRIPTION AND	(A)	(B)	(c)	(D)
NO.	USE	BLDG AREA PER	TABLE 5	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)		INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}
				Ch	
	 		¥//		
<u> </u>		<u> </u>	~ 0)	•	
l			". \ \"	´	
rontage are:	a increases from Secti	ion 50	\\ \)		
	a mereases from Secti neter which fronts a pi	1011 37 1111 37	having	20 feet minimum width	· – (E)
	Building Perimeter		(D)	20 leet illillillillilli widen	(1)
	(F/P) =	40/	(1)		
	Minimum width of pu	ublic m	(W)		
e. Perce	ent of frontage increas				
	ea applicable under co			(/0)	
				x D (maximum3 stories	2) (506.2)
				406.5.4. The maxim	
	ers must comply with		mpiy with 1a	400.3.4. THE III AM	iluili aita di an uaine
	rease is based on the u	Taut 412.3.1.	value in		
Tomage mei	lease is vascu on the t	alispinikicieu area	. Value III		
		ALLOW	<i>_</i>		
		ALLUY) *//	
			41, 11	CHOMBI ON BLANC	CODE DEFEDENCE
			\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SHOWN ON PLANS	CODE REFERENCE
Building Hei	ight in Feet (Table 504.3	3)	value in ABJIL		
	ight in Stories (Table 50	<u></u>	\ \ \ //		<u> </u>

on Table 504.3 or 504.4.

Provide code reference if the "Shown on Plans" qua

2018 NC Administrative Code and Policies

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATII REQ'D P (W/ RE	NG ROVID	DETAIL # AND T#	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	(1221)	41.			11005.11005		001115
Bearing Walls		1/4					
Exterior		·// _ <	b //				
North		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	//				
East		.0					
West		40//-					
South							
Interior				1			
Nonbearing Walls and Partitions		NOT A					
Exterior walls				、 ⊘ ≥			
North				1 //			
East		7.1	~ , Q	·//			
West		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1			
South		//	b ///				
Interior walls and partitions		. >					
Floor Construction		~ ~ ~ ~					
Including supporting beams		40//					
and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separat	tion						
Party/Fire Wall Separation				ļ			
Smoke Barrier Separation				1			
Smoke Partition				ļ			
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

^{*} Indicate section number permitting reduction

100% CONSTRUCTION APM 03/20/25 <u>100% CONSTRUCTION</u> <u>SSP</u> <u>04/22/25</u> ATC SITE NUMBER: 280251 AT&T MOBILITY SITE NUMBER:

AMERICAN TOWER® TEP ENGINEERING, PLLC 326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 OFFICE: (919) 601-0351

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DIFFERENT JURISDICTIONS DEPENDING ON THE JURISDICTION. PROFESSIONAL
ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCOLLC, A DELAWARE LIMITED LIABILITY COMPANY, OR MAH ENGINEERING
LIC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING
LIC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, GENERAL
CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LIC, A DELAWARE
LIMITED LIABILITY COMPANY, WE ACQUIRE THE REQUISITE LICENSES IN EACH
STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY. DESCRIPTION PRELIMINARY

ATC SITE NAME: SPOUT SPRINGS NC

SINC001601

AT&T MOBILITY SITE NAME:

368-389

SITE ADDRESS: 641 NC HWY 24-87 CAMERON, NC 27332-6191

DATE DRAWN: 04/22/25 ATC JOB NO: 14884017 CUSTOMER NAME: 368-389 CUSTOMER ID: SINC001601

APPENDIX B

SHEET NUMBER:

G-004

REVISION:

2018 NC Administrative Code and Policies

	PERCENTAGE OF V	VALL O	NG CALCULA	ATIONS
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	A BUILDING	E AREA	ACTUAL SHOWN ON PLANS (%)
		AUDI		
				1
	LIFE SA PO	TEM REQUIR	REMENTS	
Emergency Lighting: Exit Signs:	□ No □ Yes	-		
Fire Alarm: Smoke Detection Systems:	☐ No ☐ Yes☐ No ☐ Yes ☐ F	Partial		
Panic Hardware:	☐ No ☐ Yes			
	LIFE SAFETY PLAN	N REQUIREM	ENTS	
Life Safety Plan Sheet #:				
Exterior wall opening are Occupancy Use for each a Occupant loads for each a Exit access travel distance Common path of travel di Dead end lengths (1020.4) Clear exit widths for each Maximum calculated occ Actual occupant load for A separate schematic plan purposes of occupancy se Location of doors with pa Location of doors with de Location of doors with ele Location of doors equippe Location of emergency es The square footage of eac	ty line locations (if not on the area as it relates to occupare area as it relates to occupare area as it relates to occupare area as (1017) astances (Tables 1006.2.1 astance	can acc moor/ceiling a amount of dela (1010.1.9.9)	sy (1010.1.9.7) assification I-2 (4	d on egress width (1005.3) ture is provided for

2018 NC Administrative Code and Policies

ACCESSIBLE DWELLY G UNITS (SECTION 1/ MOTABUILDING TOTAL ACCESSIBLE ACCESSIBLE Type B TOTAL Units Units Units Units ACCESSIBLE UNITS REQUIRED PROVIDED PROVIDED PROVIDED TOTAL # OF PARKING SA # OF ACCESSIBLE SPACES PROVIDED LOT OR PARKING TOTAL# AREA REQUIRED VAN SPACES WITH ACCESSIBLE REGULAR WITH 5' ACCESS AISLE 132" ACCESS PROVIDED 8' ACCESS AISLE AISLE TOTAL PLUMBING FIXTURE P REMENTS (TABLE/ MOTABUILDING USE WATERCLOSETS SHOWERS DRINKING FOUNTAINS MALE FEMALE UNISEX /TUBS REGULAR ACCESSIBLE E UNISEX EXIST'G NEW REQ'D

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)



DATE DRAWN: 04/22/25 ATC JOB NO: 14884017 CUSTOMER NAME: 368-389 CUSTOMER ID: SINC001601

APPENDIX B

SHEET NUMBER:

G-005

REVISION

2018 NC Administrative Code and Policies

ENERGY SUMMARY	
ENERGY REQUIREMENTS: The following data shall be considered minimum and any also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be provided. Each Designer shall furnish the required to meet the energy code shall also be project information for the plan data shall be proje	heet
Existing building envelope complies with Yes (The remainder of this section is not applicable))
Exempt Building: No No utory reference):	
Climate Zone: 3A	
Method of Compliance: Energy de Performance Prescriptive ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here)	
THERMAL ENVELOPE (Prescriptive method only)	
Roof/ceiling Assembly (each assembly)	
Description of assembly: U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight: total square footage of skylights in each assembly	
Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors U-Value of assembly Solar heat gain projection fr Door R-Va Walls below grade (each assembly)	
Walls below grade (each assembly	
Description of assembly: U-Value of total assembly: R-Value of insulation:	
Floors over unconditioned space (each assembly)	
Description of assembly: U-Value of total assembly: R-Value of insulation:	
Floors slab on grade	
Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement:	

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:	:
---------------	----------

Importance Factors:	Snow (I _S)
	Seismic (I _E)
Live Loads:	Roof psf
2110 20000	Mezzanine psf
	Floor psf
	pu
Ground Snow Load:	psf
Wind Loads Door	ic Wind Speed
	ic Wind Speed
Ехр	osure Category
EISMIC DESIGN CATEGORY	psf ic Wind Speed osure Category D
rovide the following Seismic Desi	gn P
Risk Category (Table 160	III DIV
Spectral Response AcceK	
Site Classification (ASCE	\Box
Data Sour	rce: Id Test Presumptive Historical Data
	rce: riesumptive ristorical Data
Basic structural system	☐ Bearing Wall ☐ Dual w/Special Moment Frame
	☐ Building Frame ☐ Dual w/Intermediate R/C or Special Stee
	☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure:	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanica	al, Components anchored?
ATERAL DESIGN CONTROL	: Earthquake Wind
OIL BEARING CAPACITIES:	
	f test report) psf
Presumptive Bearing capac	
Pile size, type, and capacit	у



REVISION:



	DATE DRAWN:	04/22/25
	ATC JOB NO:	14884017
	CUSTOMER NAME:	368-389
	CUSTOMER ID:	SINC001601

APPENDIX B

SHEET NUMBER:

G-006

2018 NC Administrative Code and Policies

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL	CVCTEMC	CEDVICE	CVCTEMC	ANDE	THEMPILE
MECHANICAL	SISIEMIS.	SERVICE	SISIEMS	AND EQ	JUIFMENI

Thern	nal Zone	;					
	winter	dry bulb	:				
	summ	er dry bul	lb:		MABI	·	હ
Interi	or desig	n conditio	ons			OIL	
	winte	dry bulb	:			\\ \	
		er dry bul			6.1	7,//	
		e humidii		//	\Q		
					. P /		
Buildi	ng heati	ng load:		ć	\		
				10			
Buildi	ng cooli	ng load:		M			
	Ü	Ü	onditioning				
	Ü	pacing Co	onditionin				
	anical S _l Unita	pacing Co					
	anical S _l Unita de	pacing Cory scription o	of unit:				
	anical S _l Unita de he	pacing Cory scription of ating efficient	of unit:				
	anical Sp Unitar de he co	pacing Co ry scription of ating effications of the contraction of the	of unit: ciency: ciency:				
	anical Sp Unitar de he co siz	pacing Co ry scription of ating efficiently oling efficience category	of unit:				
	unital Sp Unital de he co siz Boilel	pacing Co y scription of ating efficient oling efficient e category	of unit: ciency: ciency: y of unit:	g System			
	anical S _l Unitar de he co siz Boiler	pacing Cory scription of ating efficient oling efficient ce category	of unit: ciency: ciency:	g System			
	anical Sp Unitar de he co siz Boiler Siz Chille	pacing Cory Secription of ating efficient efficiency e category ce category	of unit: ciency: ciency: y of unit:	g System	te reason.	:	

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code	☐ Perform	ce Prescriptive
ASHRAE 90.	1 Per	☐ Prescriptive
Lighting schedule (each fixture type)		O
lamp type required in fixture number of lamps in fixture ballast type used in the finumber of ballasts in	A BUILDIN	
total wattage per fi total interior wat total exterior wa	nowed (w	hole building or space by space)
Additional Efficiency Packag (When using the 2018 NCECC; not re		SHRAE 90.1)
C406.2 More Efficient HV. C406.3 Reduced Lighting F C406.4 Enhanced Digital L C406.5 On-Site Renewable C406.6 Dedicated Outdoor C406.7 Reduced Energy Us	AC Equipment Power Density Lighting Contro Energy Air System	Performance Is

AMERICAN TOWER®



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STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIMINARY	APM	03/12/25
△_	100% CONSTRUCTION	APM.	03/20/25
<u> </u>	100% CONSTRUCTION	SSP	04/22/25
\triangle _			
\triangle			
	REV.	PRELIMINARY 100% CONSTRUCTION	A PRELIMINARY APM 100% CONSTRUCTION APM

ATC SITE NUMBER: 280251

ATC SITE NAME: SPOUT SPRINGS NC

AT&T MOBILITY SITE NUMBER:

SINC001601

AT&T MOBILITY SITE NAME:

368-389

SITE ADDRESS: 641 NC HWY 24-87 CAMERON, NC 27332-6191



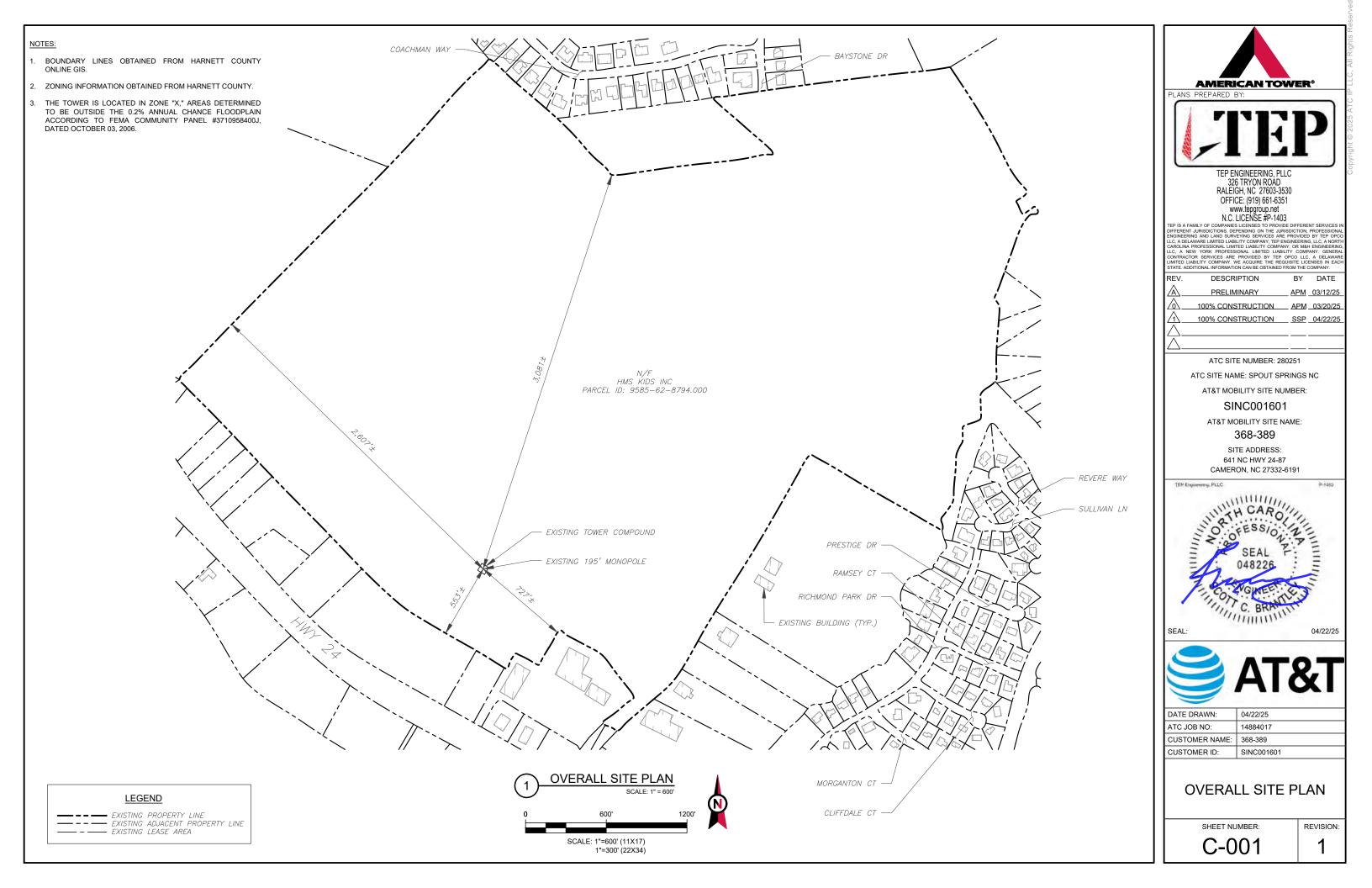


П	DATE DRAWN:	04/22/25
П	ATC JOB NO:	14884017
П	CUSTOMER NAME:	368-389
П	CUSTOMER ID:	SINC001601

APPENDIX B

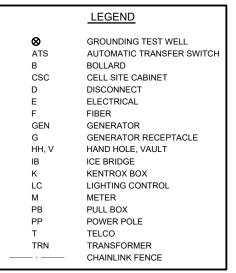
SHEET NUMBER:

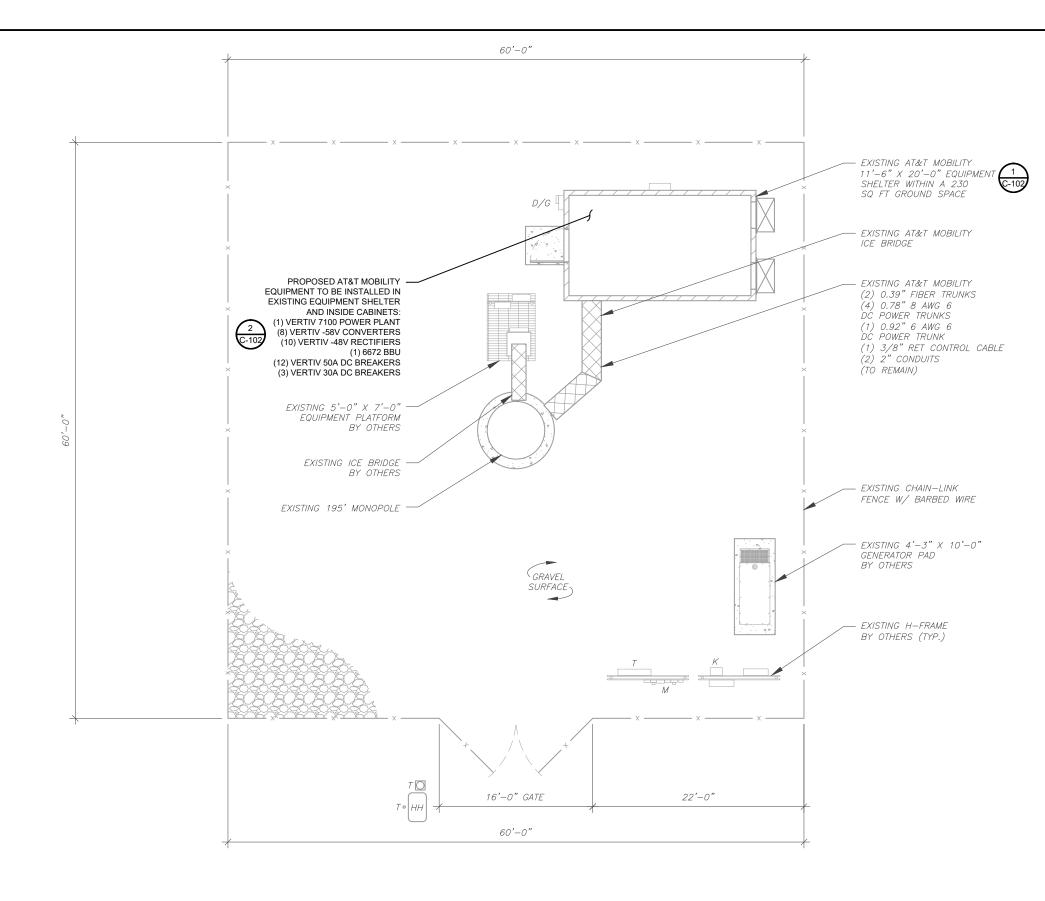
G-007

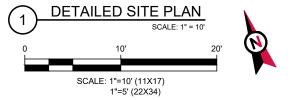


SITE PLAN NOTES:

- 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.









PLANS PREPARED BY:



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REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIMINARY	APM	03/12/25
△_	100% CONSTRUCTION	_ APM	03/20/25
Λ_{-}	100% CONSTRUCTION	SSP	04/22/25
\triangle _			
\wedge			

ATC SITE NUMBER: 280251

ATC SITE NAME: SPOUT SPRINGS NC

AT&T MOBILITY SITE NUMBER:

SINC001601

AT&T MOBILITY SITE NAME:

368-389

SITE ADDRESS: 641 NC HWY 24-87 CAMERON, NC 27332-6191



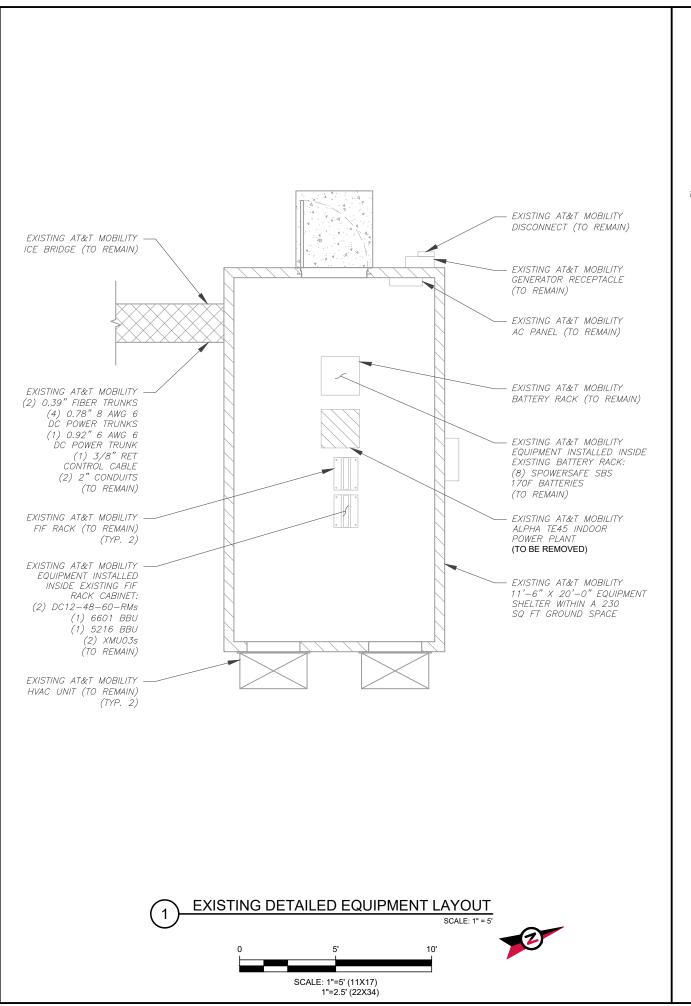


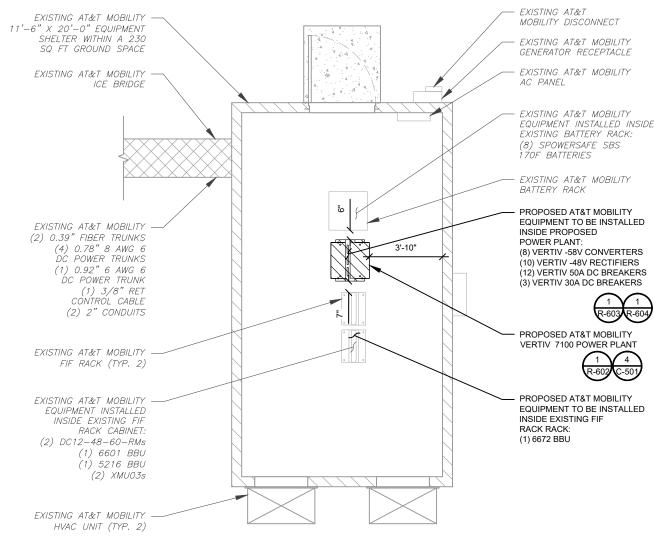
DATE DRAWN:	04/22/25
ATC JOB NO:	14884017
CUSTOMER NAME:	368-389
CUSTOMER ID:	SINC001601

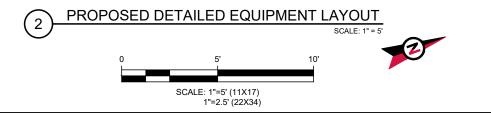
DETAILED SITE PLAN

SHEET NUMBER:

C-101









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	REV.	DESCRIPTION	BY	DATE
	A.	PRELIMINARY	APM	03/12/25
	<u> </u>	100% CONSTRUCTION	APM	03/20/25
	<u> </u>	100% CONSTRUCTION	SSP	04/22/25
	\triangle .			

ATC SITE NUMBER: 280251

ATC SITE NAME: SPOUT SPRINGS NC

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04/2

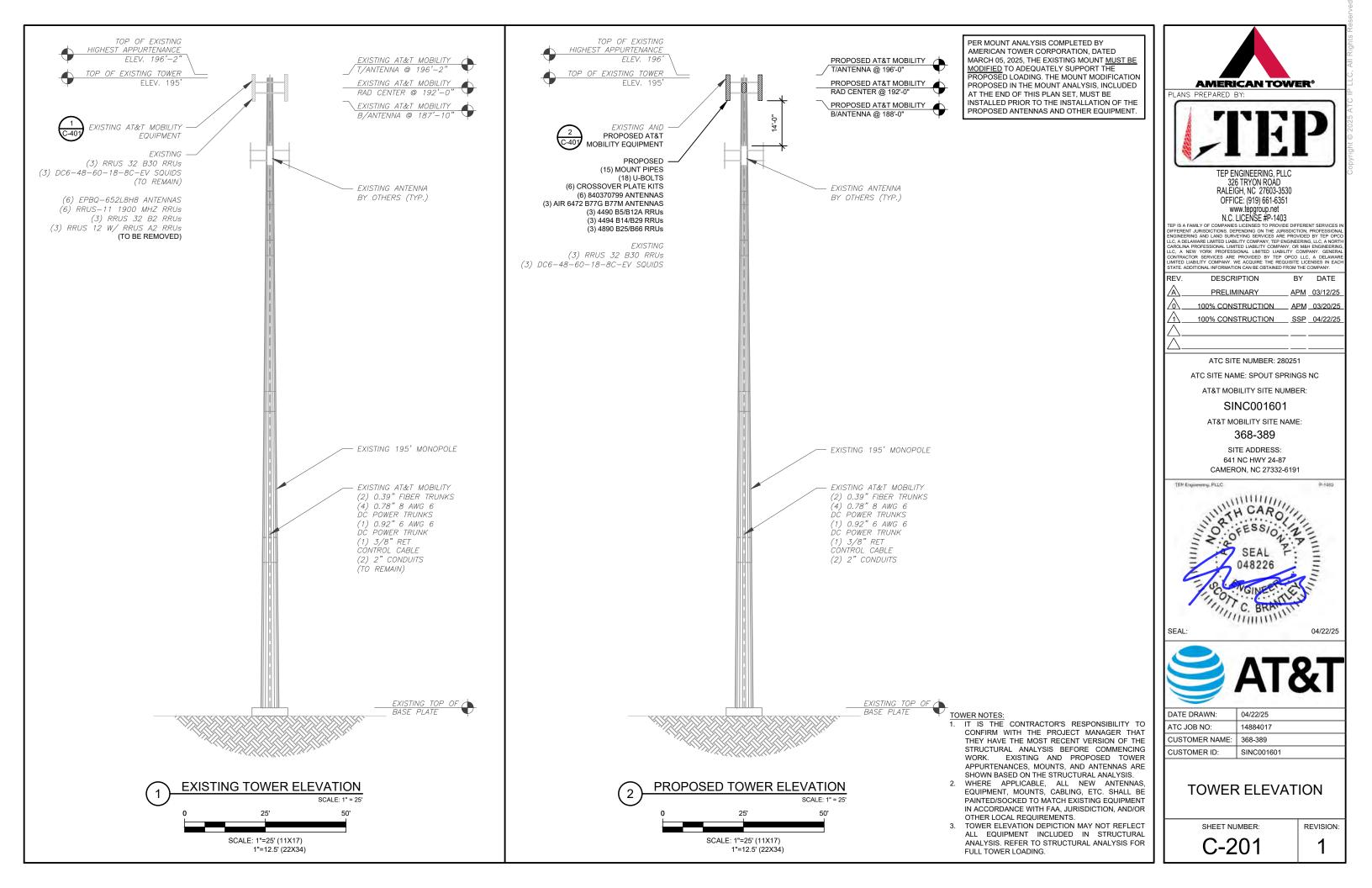


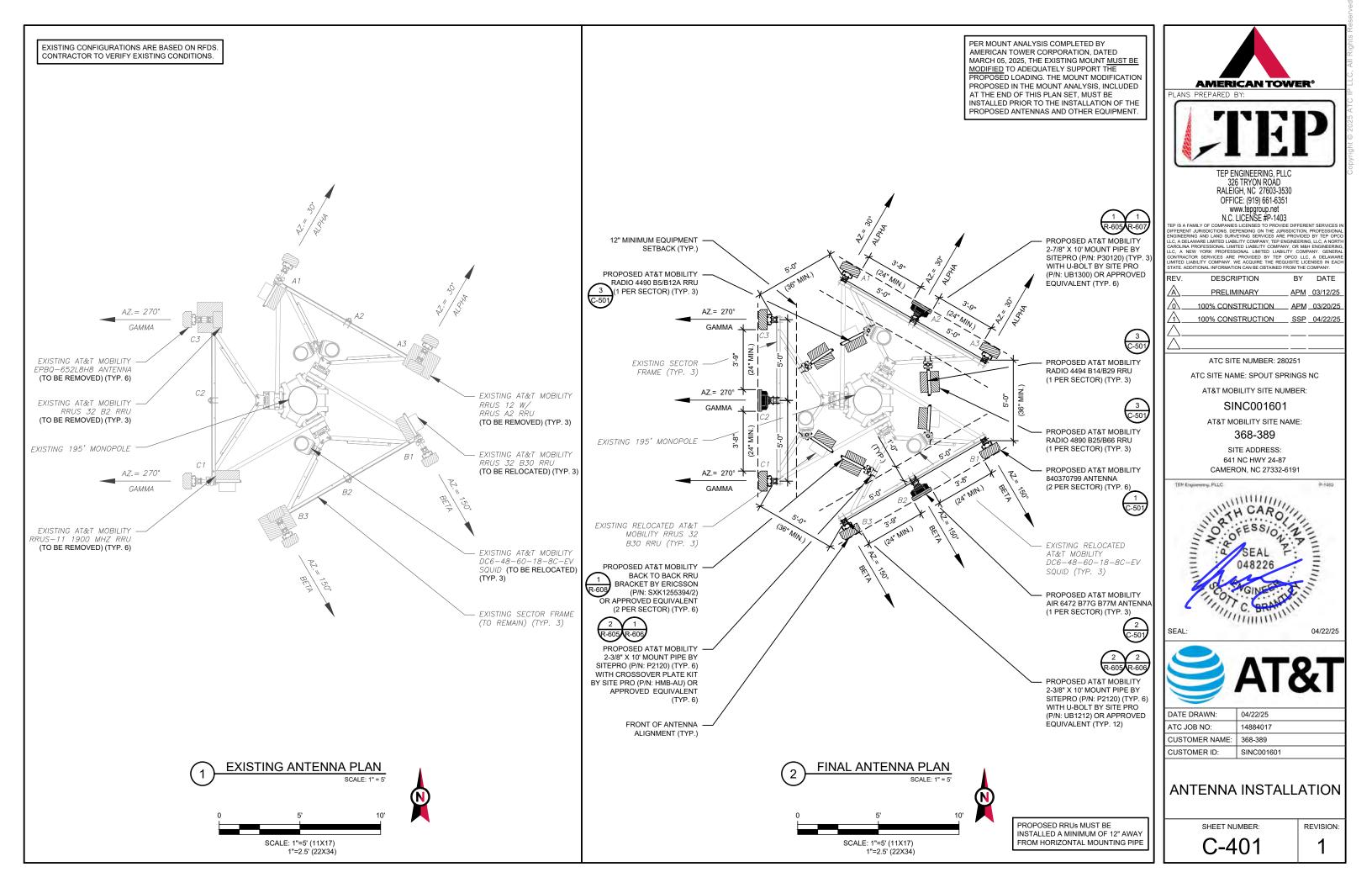
DATE DRAWN:	04/22/25
ATC JOB NO:	14884017
CUSTOMER NAME:	368-389
CUSTOMER ID:	SINC001601
·	•

DETAILED EQUIPMENT LAYOUT

SHEET NUMBER:

C-102





EXISTING ANTENNA SCHEDULE														
LC	CATION			ANTENNA SI	JMMARY	NON ANTENNA SUMMARY								
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS						
ALPHA			A1	EPBQ-652L8H8	-	RMV	(1) RRUS 32 B30 (1) RRUS-11 1900 MHZ	REL RMV						
	192'	30°	A2	_	_	_	-	-						
	192	50	A3	EPBQ-652L8H8	_	RMV	(1) RRUS 32 B2 (1) RRUS 12 W/ RRUS A2 (1) RRUS-11 1900 MHZ	RMV RMV RMV						
		150°	B1	EPBQ-652L8H8	-	RMV	(1) RRUS 32 B30 (1) RRUS-11 1900 MHZ	REL RMV						
BETA	192'		150°	150°	150°	150°	150°	150°	B2	_	_	_	-	-
DLIA	192								750	750	,,,,	,,,,	, , ,	
			C1	EPBQ-652L8H8	-	RMV	(1) RRUS 32 B30 (1) RRUS-11 1900 MHZ	REL RMV						
GAMMA	192'	270°	C2	_	_	_	-	-						
GAININA	192	2,0	C3	EPBQ-652L8H8	_	RMV	(1) RRUS 32 B2 (1) RRUS 12 W/ RRUS A2 (1) RRUS-11 1900 MHZ	RMV RMV RMV						

		NOTES
	1.	GC TO VERIFY THE FINAL RFDS
JS		MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY
,		DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.
	2.	GC TO CAP ALL UNUSED PORTS.
,		CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER
<i>'</i>		CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
,	4.	
		CONFIRM EXISTING SITE
,		CONDITIONS INCLUDING, BUT NOT LIMITED TO. ANTENNA AZIMUTHS.
,		MOUNT CONFIGURATIONS AND
,		TOWER ORIENTATION. SCALES
		SHOWN ARE FOR REFERENCE
,		ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE
		CONTRACTOR SHALL VERIFY ALL
,		EXISTING CONDITIONS PRIOR TO
,		OF ANY DISCREPANCIES.
_	5.	CONTRACTOR TO ENSURE
		PROPER SEPARATION IN
		ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS.

					FINAL AN	TENNA SCHEDULE				
\dashv	LO	CATION			ANTENNA SU	NON ANTENNA SUMMAI	RY			
	SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
				A1	840370799	LTE 700/LTE WCS	ADD	(1) RRUS 32 B30 (1) RADIO 4490 B5/B12A	RMN ADD	
_	ALPHA	192'	30°	A2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	-	-	
D				A3 840370799 LTE 700(FNET)/LTE AWS/5G AWS/LTE 1900/5G 1900		ADD	(1) RADIO 4890 B25/B66 (1) RADIO 4494 B14/B29	ADD ADD		
N				B1	840370799	LTE 700/LTE WCS	ADD	(1) RRUS 32 B30 (1) RADIO 4490 B5/B12A	RMN ADD	
т	BETA	192'	192'	150°	B2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	-	-
,				В3	840370799	LTE 700(FNET)/LTE AWS/5G AWS/LTE 1900/5G 1900	ADD	(1) RADIO 4890 B25/B66 (1) RADIO 4494 B14/B29	ADD ADD	
3				C1	840370799	LTE 700/LTE WCS	ADD	(1) RRUS 32 B30 (1) RADIO 4490 B5/B12A	RMN ADD	
.	GAMMA	192'	270°	C2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	-	-	
	S, wilvir			С3	840370799	LTE 700(FNET)/LTE AWS/5G AWS/LTE 1900/5G 1900	ADD	(1) RADIO 4890 B25/B66 (1) RADIO 4494 B14/B29	ADD ADD	

STATUS ABBREVIATIONS

RMV: TO BE REMOVED RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10'

EXISTING FIBER DISTRIBUTION	N/SQUID	EXISTING CABLING SUMMARY							
MODEL NUMBER	STATUS	CONDUIT	CONDUIT DC / RET FIBER						
(3) DC6-48-60-18-8C-EV	REL	(2) 2" CONDUIT	(4) 0.78" 8 AWG 6	(2) 0.39"	RMN				
-	-	_	(1) 0.92 6 AWG 6	_	RMN				
	_	_	(1) 3/8" RET	_	RMN				

$\overline{1}$	EQUIPMENT SCHEDULES
ι /	

	EXISTING FIBER DISTRIBUTION	N/SQUID	EXISTING CABLING SUMMARY							
MODEL NUMBER STATUS			CONDUIT	DC / RET	FIBER	STATUS				
	(3) DC6-48-60-18-8C-EV	RMN	(2) 2" CONDUIT	(4) 0.78" 8 AWG 6	(2) 0.39"	RMN				
	-	-	-	(1) 0.92 6 AWG 6	-	RMN				
	-	-	-	(1) 3/8" RET	-	RMN				





TEP ENGINEERING, PLLC 326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351

OFFICE: (\$19) do 1-0351

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LICHARD LIABILITY COMPANY, WE ACQUIRE THE REQUISITE LICENSES IN EACH
STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

	REV.	DESCRIPTION	BY	DATE
l	\mathbb{A}_{-}	PRELIMINARY	APM	03/12/25
l	△_	100% CONSTRUCTION	<u>APM</u> .	03/20/25
l	Λ	100% CONSTRUCTION	SSP	04/22/25
l	$\overline{\wedge}$			
1	$\overline{\wedge}$			

ATC SITE NUMBER: 280251

ATC SITE NAME: SPOUT SPRINGS NC

AT&T MOBILITY SITE NUMBER:

SINC001601

AT&T MOBILITY SITE NAME:

368-389

SITE ADDRESS: 641 NC HWY 24-87 CAMERON, NC 27332-6191



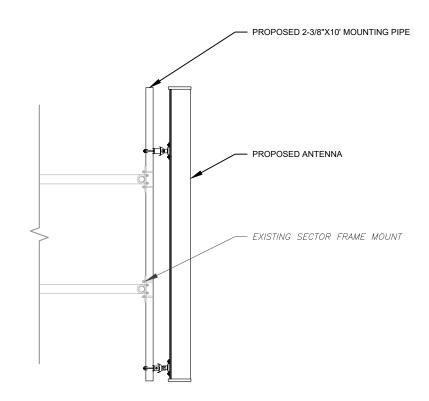


DATE DRAWN:	04/22/25				
ATC JOB NO:	14884017				
CUSTOMER NAME:	368-389				
CUSTOMER ID:	SINC001601				

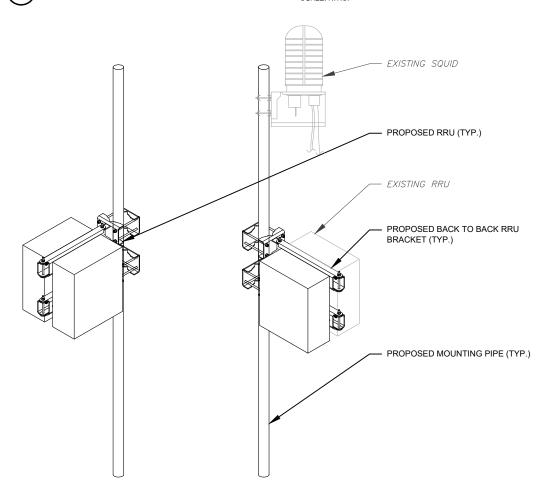
ANTENNA SCHEDULE

SHEET	T NUMBER:
\mathbf{C}	100

C-402

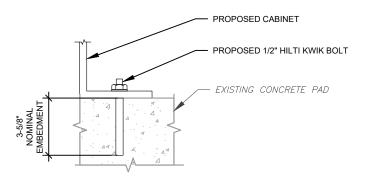


PROPOSED ANTENNA MOUNTING DETAIL



PROPOSED 2-7/8"X10' MOUNTING PIPE PROPOSED 5G ANTENNA EXISTING SECTOR FRAME MOUNT

PROPOSED 5G ANTENNA MOUNTING DETAIL



NOTE:

INSTALL HILTI KWIK BOLT ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

SCALE: N.T.S.

CABINET ATTACHMENT DETAIL

CONSTRUCTION **DETAILS** SHEET NUMBER: REVISION C-501

AMERICAN TOWER®

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100% CONSTRUCTION SSP 04/22/25

ATC SITE NUMBER: 280251 ATC SITE NAME: SPOUT SPRINGS NC

AT&T MOBILITY SITE NUMBER: SINC001601 AT&T MOBILITY SITE NAME: 368-389

SITE ADDRESS: 641 NC HWY 24-87 CAMERON, NC 27332-6191

C. BRANINI

04/22/25

14884017

SINC001601

368-389

DATE DRAWN:

ATC JOB NO:

CUSTOMER NAME:

CUSTOMER ID:

APM 03/20/25

PRELIMINARY 100% CONSTRUCTION

PROPOSED RRU & EXISTING SQUID MOUNTING DETAIL

SCALE: N.T.S.

			1	20/240 VC	WER PAN			A			
Service Control	MAIN	BREAL	KER RAT	TING (A):	20	0	SYS	TEM VO	LTAGE	(V): 24	10
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
CONTROLLER	520	nc	30/2	1	3030		2	50/2	C	2510	HVAC #1
CONTROLLER	520	nc	30/2	3		3030	4	50/2	C	2510	HVAC #1
RECTIFIER #1	520	С	30/2	5	3030		6	50/2	С	2510	HVAC #2
RECTIFIER #1	520	С	30/2	7		3030	8	30/2	C	2510	HVAC #2
RECTIFIER #2	520	C	30/2	9	1420		10	20/1	nc	900	INTERIOR LIGHTS
KLCIII ILK #2	520	С	30/2	11		820	12	20/1	nc	300	EXTERIOR LIGHTS
RECTIFIER #5 / OFF	0	С	30/2	13	720		14	20/1	nc	720	RECEPTACLES
KECHI IEK #3 / OFF	0	C	30/2	15		0	16				BLANK
RECTIFIER #4	520	С	30/2	17	520		18				BLANK
RECIII IER #4	520	С	3012	19		520	20				BLANK
RECTIFIER #3	520	С	30/2	21	520		22				BLANK
RECIII IER #3	520	C	3012	23		520	24				BLANK
RECTIFIER #6 / OFF	0	C	30/2	25	0		26			- 115	BLANK
KECHI IEK #07 OIT	0	C	30/2	27		0	28				BLANK
RECTIFIER #7 / OFF	0	С	30/2	29	0		30			- /-	BLANK
RECHIER #17 OFF	0	C	30/2	31		0	32				BLANK
RECTIFIER #8 / OFF	0	С	30/2	33	0		34				BLANK
RECTIFIER #0 / OFF	0	С	3012	35		0	36				BLANK
BLANK				37	0		38				BLANK
BLANK		17.00	10.13	39		0	40				BLANK
GFCI	720	nc	20/1	41	720		42				BLANK
				S (VA):	9960	7920					
				ALS (A):	83	66					
CURRENT PER PHA	ASE W/ 125				98		Amperes				in breaker rating
		PA	NEL TOT	AL (VA):	178	80		Legen	d: c = 0	ontinuous,	nc = non-continuous
PANEL TOTAL	W/ 125% C	Continu	ious Loa	ds (VA):	214	30					

EXISTING PANEL SCHEDULE

			- 53	AC POW 120/240 VO	ER PANE			Δ			
51915	MAIN	BREA		TING (A) :	20		the same of	TEM VOI	TAGE	(V): 2	40
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
CONTROLLER	520	nc	30/2	1	3030		2	50/2	C	2510	HVAC #1
CONTROLLER	520	nc	30/2	3		3030	4	50/2	C	2510	HVAC#1
VERTIV RECTIFIER 1 & 2	1245	С	30/2	5	3755		6	50/2	C	2510	HVAC #2
VERTIV RECTIFIER 1 & 2	1245	С	30/2	7		3755	8	50/2	C	2510	HVAC #2
VERTIV RECTIFIER 3 & 4	1245	C	30/2	9	2145		10	20/1	nc	900	INTERIOR LIGHTS
VERTIV RECTIFIER 3 & 4	1245	С	30/2	11		1545	12	20/1	nc	300	EXTERIOR LIGHTS
VERTIV RECTIFIER 5 & 6	1245	С	30/2	13	1965		14	20/1	nc	720	RECEPTACLES
VERTIV RECTIFIER 5 & 0	1245	С	30/2	15		1245	16				BLANK
VERTIV RECTIFIER 7 & 8	1245	С	30/2	17	1245		18				BLANK
VERTIV RECTIFIER / & 0	1245	С	30/2	19		1245	20				BLANK
VERTIV RECTIFIER 9 & 10	1245	С	c 30/2	21	1245		22				BLANK
VERTIV RECTIFIER 9 & 10	1245	С		23		1245	24				BLANK
CDADE LOFE	0	С	2010	25	0		26				BLANK
SPARE / OFF	0	С	30/2	27		0	28				BLANK
SPARE / OFF	0	С	30/2	29	0		30				BLANK
SPARE / OFF	0	С	30/2	31		0	32				BLANK
SPARE / OFF	0	С	30/2	33	0		34				BLANK
SPARE / OFF	0	С	30/2	35		0	36				BLANK
BLANK				37	0		38				BLANK
BLANK			TITI	39		0	40				BLANK
GFCI	720	nc	20/1	41	720		42				BLANK
		PHAS	E TOTAL	LS (VA):	14105	12065					
				ALS (A):	118	101					
CURRENT PER PHAS	SE W/ 125				141		Amperes				ain breaker rating
		PA	NEL TOT	AL (VA):	261	70		Legen	d: c = c	ontinuous,	nc = non-continuous
PANEL TOTAL \	N/ 125% (Continu	uous Loa	ds (VA):	317	93					







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	REV.	DESCRIPTION	BY	DATE
	A.	PRELIMINARY	APM	03/12/25
	△.	100% CONSTRUCTION	<u>APM</u>	03/20/25
	1	100% CONSTRUCTION	SSP	04/22/25
	\triangle			

ATC SITE NUMBER: 280251

ATC SITE NAME: SPOUT SPRINGS NC

AT&T MOBILITY SITE NUMBER:

SINC001601

AT&T MOBILITY SITE NAME:

368-389

SITE ADDRESS: 641 NC HWY 24-87 CAMERON, NC 27332-6191



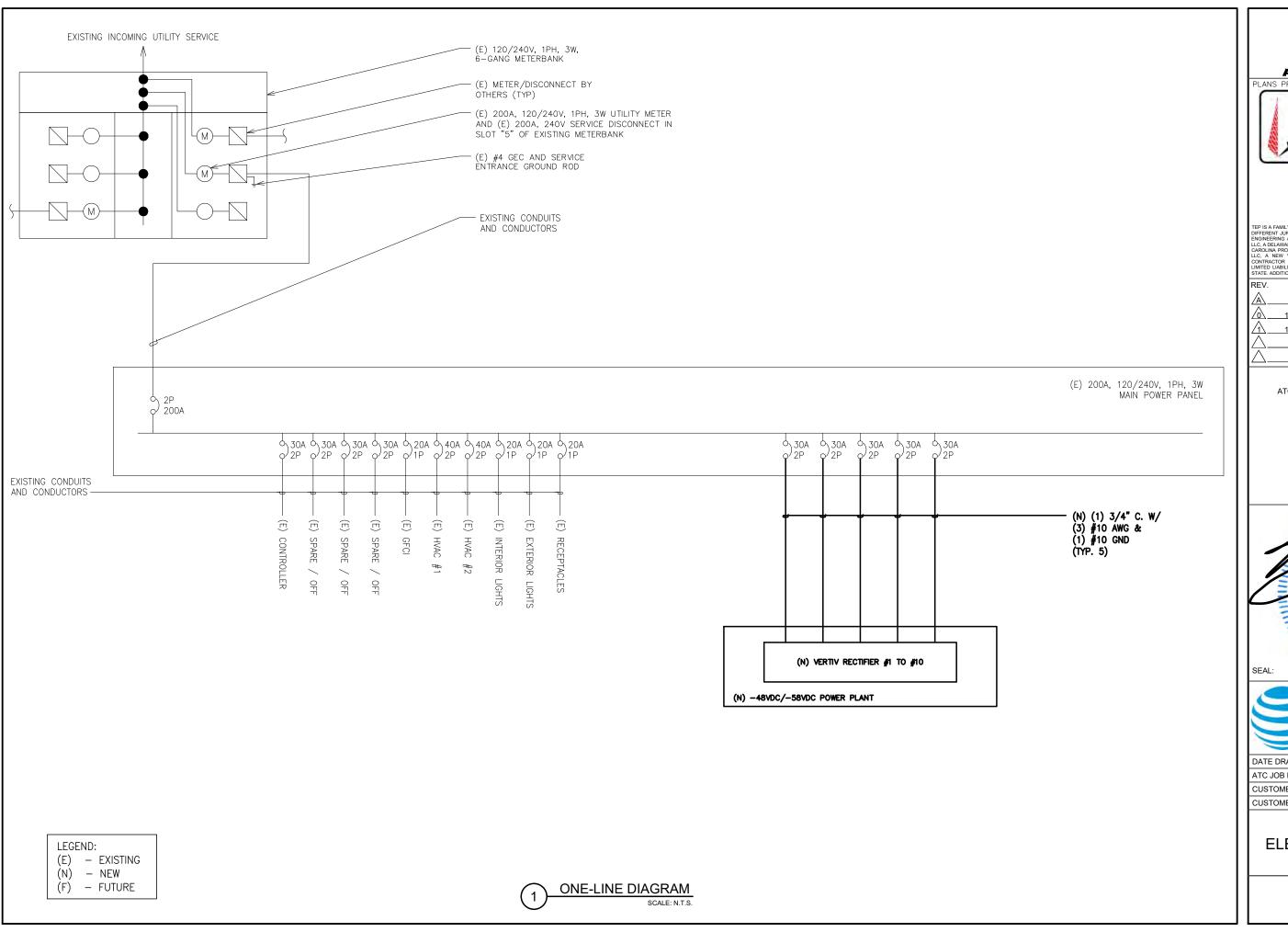


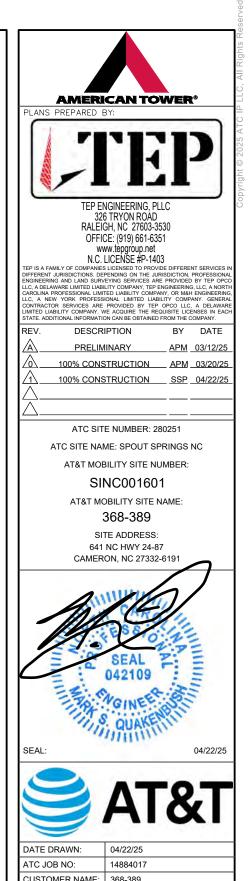
	DATE DRAWN:	04/22/25
	ATC JOB NO:	14884017
	CUSTOMER NAME:	368-389
	CUSTOMER ID:	SINC001601

ELECTRICAL DETAILS

SHEET NUMBER:

E-101



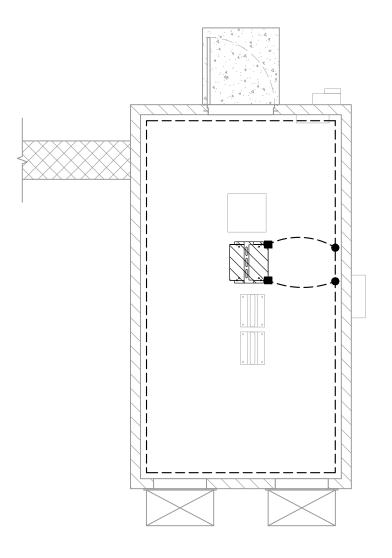


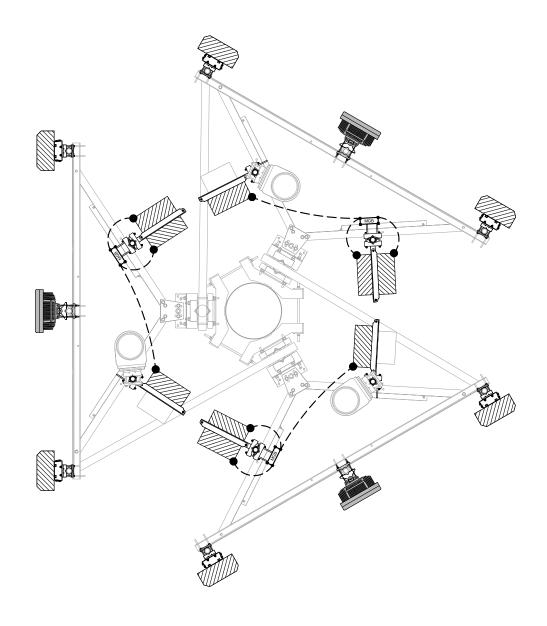
DATE DRAWN:	04/22/25
ATC JOB NO:	14884017
CUSTOMER NAME:	368-389
CUSTOMER ID:	SINC001601

ELECTRICAL DETAILS

SHEET NUMBER:

E-102





LEGEND EXOTHERMIC CONNECTION MECHANICAL CONNECTION ANTENNA GROUND BAR MASTER GROUND BAR











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	REV.	DESCRIPTION	BY	DATE
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	<u> </u>	100% CONSTRUCTION	APM	03/20/25
	<u> </u>	100% CONSTRUCTION	SSP	04/22/25
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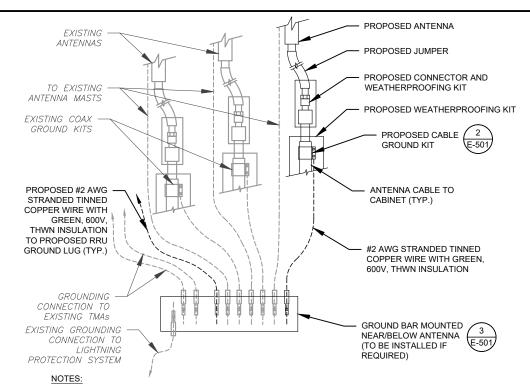


	DATE DRAWN:	04/22/25
	ATC JOB NO:	14884017
	CUSTOMER NAME:	368-389
	CUSTOMER ID:	SINC001601

GROUNDING PLAN

SHEET NUMBER:

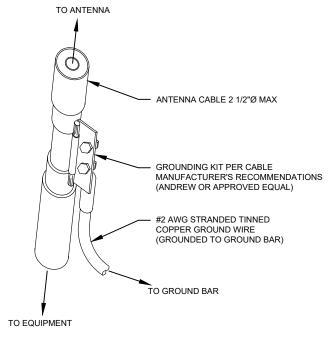
REVISION: E-103



 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.

2. SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T MOBILITY GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL

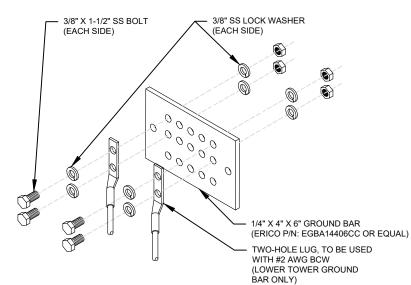
GOVERN. TYPICAL ANTENNA GROUNDING DIAGRAM



- GROUND KIT NOTES:

 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.

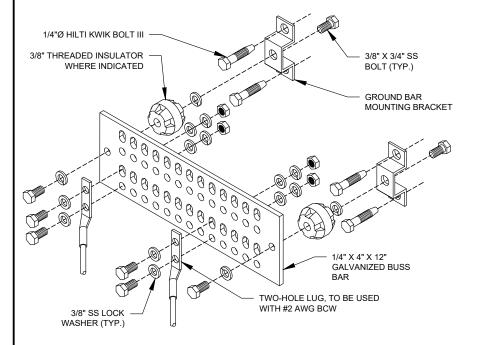
CABLE GROUND KIT CONNECTION DETAIL



GROUND BAR NOTES:

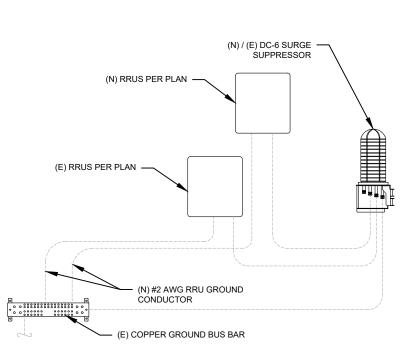
- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

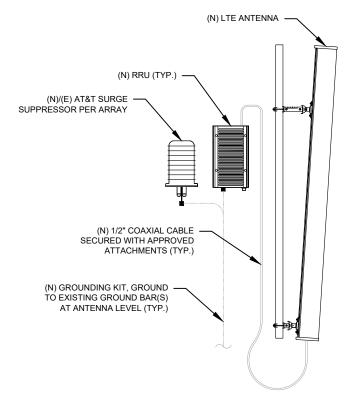




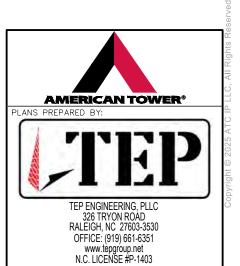
GROUND BAR NOTES

- 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.





RRU GROUNDING ANTENNA/RRU GROUNDING



	REV.	DESCRIPTION	BY	DATE
	A.	PRELIMINARY	APM	03/12/25
	△.	100% CONSTRUCTION	<u>APM</u>	03/20/25
	\triangle	100% CONSTRUCTION	SSP	04/22/25
	\triangle			
	\wedge			

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ATC SITE NAME: SPOUT SPRINGS NC

AT&T MOBILITY SITE NUMBER:

SINC001601

AT&T MOBILITY SITE NAME:

368-389

SITE ADDRESS: 641 NC HWY 24-87





DATE DRAWN:	04/22/25
ATC JOB NO:	14884017
CUSTOMER NAME:	368-389
CUSTOMER ID:	SINC001601

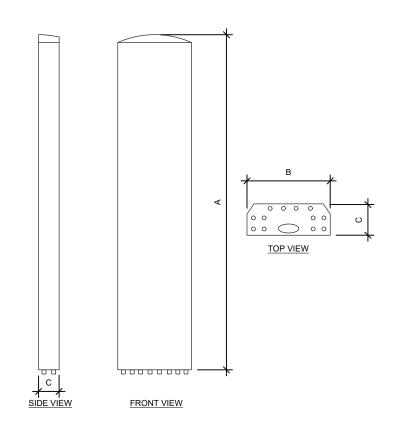
GROUNDING DETAILS

SHEET NUMBER:

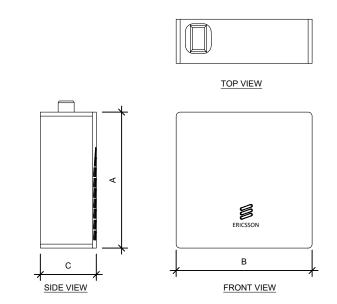
E-501

REVISION

MAIN GROUND BAR DETAIL



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	А	В	С	WEIGHT (LBS)
840370799	96.0"	14.9"	6.5"	105.8
AIR 6472 B77G B77M	36.3"	15.8"	7.4"	67.2



RRU SPECIFICATIONS				
RRU MODEL	А	В	С	WEIGHT (LBS)
RADIO 4490 B5/B12A	20.6"	15.6"	7.0"	65.0
RADIO 4890 B25/B66	17.5"	15.2"	6.9"	68.0
RADIO 4494 B14/B29	17.5"	15.1"	5.6"	57.3

SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

EQUIPMENT SPECIFICATIONS

Vertiv[™] NetSure[™] 7100 Series



-48V DC Power System - 20 kW to 600 kW

Key Benefits

- Effectively power a variety of equipment types with -48VDC rectifiers, -58VDC or +24VDC converters and 120VAC inverters. all from one power system.
- Actively manage and monitor system performance, battery health, and generator operation using the NetSure controller platform across your entire network.
- Minimize upfront cost by incrementally increasing capacity as needed.
- Easily migrate from -48V to -58V or +24V DC equipment or vice-versa with multi-purpose rectifier/converter slots and field adjustable split bus dual voltage breaker panels.
- Lower energy consumption and reduce cost of ownership with high-efficiency eSure rectifiers and converters.
- Securely manage your site power with optional HTTPS and SNMPv3 encryption, as well as RADIUS User Authentication.
- Easily monitor and adjust system parameters with a simple, graphic user interface accessed through an on-board color display or web pages supported by all major browsers.

Versatile DC power solution with high efficiency eSure™ rectifiers, converters and inverters, modular distribution, and advanced control and monitoring accepts single or three-phase input up to 277/480 VAC.

Description

Vertiv[™] NetSure[™] 7100 Series DC power systems with high efficiency eSure™ rectifiers, converters and inverters, modular distribution, and advanced control and monitoring are designed to accept single or three-phase input up to 277/480 VAC for a wide range of access, edge and core network applications. Available with 3500 or 2000 watt rectifiers, 2000 watt peak -48V to -58V DC to DC converters or 1500 watt -48V to +24V DC to DC converters, 1000 watt inverters, and a NetSure controller, these systems deliver up to 12,000 amps of current at -48V, up to 520 amps at -58V DC or +24V DC and up to 12kVA at 120VAC. Modular distribution panels, mounting shelves for rectifiers, converters and inverters, batteries and battery trays can be housed in an indoor enclosure or relay rack

Each shelf can accommodate up to six plug'n'play rectifiers, which are controlled by the NCU. Additional shelves can be added as load requirements increase. The rectifiers, DC to DC converters and inverters are housed in shelves that occupy 1 RU. Each shelf accommodates rectifiers in all six positions and converters in three positions. Inverters are housed in separate shelves that accommodate six inverters each.

The NetSure 7100 can be expanded to up to six distribution bays for a total capacity of 12,000 amps and up to 24 distribution panels. Each NetSure 7100 distribution cabinet is modular by row and position.



High-Efficiency eSure™ Rectifiers & Inverter R48-3500e3 (left), I120-1000 (center)



NetSure™ 7100

Four distinct distribution cabinet sizes are available to accommodate from one to four distribution panels. This allows the system to be configured in relay racks of various heights for installation in low-profile sites or atop batteries or other equipment to make more effective use of floor space. Several distribution panels are available offering different combinations of distribution positions, low voltage disconnect and battery disconnect options.

Distribution device options include 1 amp to 300 amp bullet-style circuit breakers 3 amp to 125 amp TPS-style fuses in plug-in bullet-style holders, 100 amp to 800 amp GJ/218-style circuit breakers, and 70 amp to 600 amp TPH-style fuses. These devices can be configured for both -48V load and battery disconnect and -58V or +24V load (bullet devices only). A GMT fuse module is also available.

The 120VAC inverter option is available at 6kVA (2RU total) or 12kVA (4RU total). Output is provided as either bulk via 70 amp breakers or NEMA receptacles at 15 amps each.

Application

The NetSure 7100 system is ideal for wireless, and wireline applications, including cell sites, MTSOs, small COs, datacenters, co-locations, huts, vaults and enclosures.

Vertiv[™] NetSure[™] 7100 Series



System Elements

Technical Specifications (System)

System Feature	es	Environmental		
System Voltage, -48 VDC (-42.0 VDC to -58.0 VDC range)		Operating Temperature	-40 °F to 104 °F (-40 °C to 40 °C) continuous operation	
Output Voltage, Secondary	-58 VDC (-56.0 VDC to -58.0 VDC	Storage	-40 °F to 185 °F (-40 °C to 85 °C)	
	range) or +24 VDC (+24,0 VDC to +28.0 VDC range)	Humidity	0% to 95% relative humidity, non-condensing	
Output Voltage, Inverter	120VAC nominal	Ventilation	Rectifiers and converters are fan-cooled front to rear	
Input Voltage	Single Phase: 208/240/277 VAC (277 VAC for 3500 W rectifiers only) Three Phase: 208 VAC or 277/480 VAC	EMI/RFI Suppression	Conforms to FCC rules Part 15, Subpart B, Class B and EN55022 Class B radiated and conducted	
	(277/480 VAC for 3500 W rectifiers only)	Safety	UL Listed 1801, cUL. NEBS Level 3	
Control	Microprocessor (NCU)	Compliance	52 Eloca 1551, 552, 11255 E6161 5	

Rated Output Capacity

Bay - Rectifier,	2500 amps (-48VDC),
Converter, Inverter	520 amps (-58VDC or +24VDC), 6kVA or 12kVA (120VAC)
Bay, Distribution	2000 amps (48 VDC) and 520 amps (-58 VDC or +24 VDC), 6kVA or 12kVA (120VAC)
Rectifier	3500 W (R48-3500e3 or R48-3500) or 2000 W (R48-2000e3)
Shelf	438 amps (3500W rectifiers) or 250 amps (2000W rectifiers)
Distribution Panel	600 amps

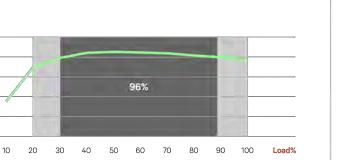
% Efficiency

Physical Charac	teristics
Framework Type	Rail-mount (can be mounted in an enclosure or relay rack)
Mounting Width	23 inches
Mounting Depth	20 inches, 9 inch front projection
Access	Front access for installation, operation and maintenance

Ordering Information

Part Number	Description
582127000	NetSure™ 7100 DC power system
1M830DNA	NCU controller
1R483500E3	3500 W eSure rectifier, 1RU height
1R483500E	3500 W eSure™ rectifier, 3RU height
588705400	Power shelf for 1 RU 3500 W rectifiers
1R482000E3	2000 W eSure rectifier, 1RU height
1C48582000P3	2000 W peak, 1600 W average -48 VDC to -58 VDC converter
1C48241500	1500 W -48 VDC to +24 VDC converter
588705300	Power shelf for 1 RU (2000 W) rectifiers and converters
111201000	1000VA Inverter, 1RU height

(both sides)



R48-3500e3 Efficiency Curve at 230 VAC Nominal



Vertiv.com | Vertiv Headquarters, 505 N Cleveland Ave, Westerville, OH 43082, USA

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DC-00169 Rev.1-03/24

SUPPLEMENTAL

SHEET NUMBER:

REVISION

R-602

PROPOSED VERTIV 7100 POWER PLANT DETAIL

R48-2000e3

Benefits

- Optimize the amount of energy delivered and reduce power consumption with over 96% efficiency.
- Increase space for revenue generating equipment with modules that pack more power in a small space with high power density.
- Facilitate easy maintenance, expansion and system changes with hot swappable capabilities.
- Enjoy increased reliability and active load sharing with Digital Signal Processing (DSP) which translates into fewer components and optimized operation.
- Appreciate the flexibility to utilize in a variety of applications with a wide input voltage range of 85 VAC to 300 VAC and full power output at temperatures from -40°C to +65°C.

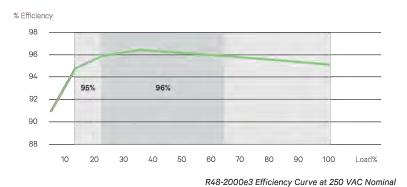
In addition to reducing power consumption and lowering operating cost, eSure $^{\text{TM}}$ high-efficiency rectifiers offer superior performance and uncompromised reliability.

Description

The 2000 watt high-efficiency eSure rectifier (model R48-2000e3) converts standard AC supply voltages into stable nominal -48 VDC voltage that is adjustable to application needs. This constant power rectifier designed with the latest patented switch-mode technology, uses DSP (Digital Signal Processing) for efficient operation.

The R48-2000e3 can be connected in parallel with other rectifiers and converters to support a variety of telecom applications. Unified remote management and control of the power system is enabled when combined with a Vertiv[™] controller.





Technical Specifications

eSure™ Rectifier

AC Input	R48-2000E3	
Voltage	85 VAC to 300 VAC (see figure 1), 187 VAC to 264 VAC (nominal)	
Frequency	45 Hz to 65 Hz	
Maximum Current	12 A	
Power Factor	>0.99 from 50 to 100% load	
Protection	High and low voltage protection, surge and lightning protection Adapts to poor quality grid (voltage dip, weak mains) Disconnection at 415 VAC Mains fuses in both lines	

DC Output	
Voltage	-42 VDC to -58 VDC
Maximum Power	2000 W
Maximum Current	42 A @ -48 VDC, limit set point 0 to 42 A (see figure 2)
Peak Efficiency	96.2%
	Fuse for reverse connection and back feeding protection
Protection	High voltage shutdown
	High temperature protection

Control and Monitoring	
Converter Alarm and Signaling	Alarm and status reported via CAN bus to system controller
	Green LED: Normal Operation
Visual Indications	Yellow LED: Alarm
	Red LED: Failure

Environmental

Operating	-40°C to 80°C / -40°F to +176°F (see figure 3 for derating)
Temperature Derating	Full output power up to +65°C at input voltage range 200 to 250 VAC (see figure 3)
Storage	-40°C to +70°C / -40°F to +158°F
Relative Humidity	0 to 95%
Altitude	Full output power up to +65°C at input voltage range @200~ 250 VAC

Standards Compliance	
Safety	60950-1 (EN, IEC and UL)
EMC	EN55022, CISPR22, ETSI EN300 286: 2005, FCC CFR 47 Part 15, Telcordia GR-1089-CORE issue 6 (Class B conducted and radiated)
Environment	REACH, RoHS, WEEE
Mechanics	
Dimensions (H v W v D)	41 x 84 5 x 252 5 (mm) / 161 x 3 33 x 9 94 (inches)

Dimensions (H x W x D)	41 x 84.5 x 252.5 (mm) / 1.61 x 3.33 x 9.94 (inches)
Weight	1.13 kg / 2.49 lbs

Ordering Information

Model Number	Description	
1R482000E3	eSure™ rectifier, -48 VDC, 2000 W	

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R48-2000E3 (R06/20)

Figures

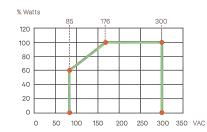


Figure 1: Output Power vs. Input Voltage and Vo > 48 V at Tamb <55°C

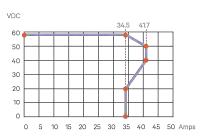


Figure 2: Output Voltage vs. Output Current at Maximum Output Power 2000 W

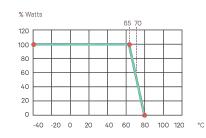


Figure 3: Output Power vs. Temperature at Uin > 200VAC

SUPPLEMENTAL

SHEET NUMBER:

REVISION:

PROPOSED -48V RECTIFIER DETAIL

Key Benefits

C48/58 -2000P3

Converter, 48 to 58 VDC, 2000 W Peak / 1600 W Average

- Reduce power consumption and lower operating costs with 95% peak efficiency.
- Easily add capacity with hot pluggable interchangeable components.
- Ensure high availability with wide input voltage range from 41 VDC to 58 VDC.
- Power your 5G sites in the harsh environments with operation from -40°C to +65°C.
- Enjoy peace of mind with high quality UL recognized design.

Easily support higher power 5G remote radios on cell towers with modular 2000 watt eSureTM power extend converters.

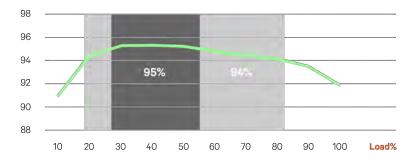
Description

The Vertiv™ eSure™ C48/58-2000P3 high-efficiency converter is designed to operate from a nominal -48 VDC source to provide nominal -58 VDC load power, which is adjustable to application needs up to 2000 watts peak, 1600 watts average. This constant power converter designed with the latest patented switchmode technology, uses digital signal processing (DSP) for efficient operation.

The eSure C48/58-2000P3 DC to DC converter is ideal for feeding high power remote radio heads (RRHs). 58 VDC is regulated over a wide input range to minimize voltage drop in the cable feeding the RRH and sustain operation to end of battery discharge. When redundancy is critical or loads are high, multiple eSure C48/58-2000P3 converters can be connected in parallel to support a variety of telecom applications. Unified remote management and control of the power system is enabled when combined with a Vertiv™ NetSure™ controller.



% Efficiency



C48/58-2000P3 Efficiency Curve at 53.5 VDC Nominal Input

Technical Specifications

DC Input	C48/58-2000P3	
Voltage	41 VDC to 58.5 VDC, 48 VDC (nominal)	
Maximum Current	53 A	

DC Output

Voltage	56 VDC to 58 VDC
Maximum Power	2000 W peak, 1600 W average at 40°C, 1280 W average at 65°C
Maximum Current	35.7 A at 2000 W peak (see figure 1), 28.6 A at 1600 W average, 22.9 A at 1280 W average, all at 56 VDC
Peak Efficiency	>95%
Noise	< 250mV pk-pk; < 20mV rms; <38 dBrnC

Control and Monitoring

Alarms and Signaling	Alarm and status reported via CAN bus to system controller
Visual Indications	Green LED: Normal Operation Yellow LED: Alarm Red LED: Failure Flashing Red LED: Fan Failure

Environmental

Operating Temperature	-40°C to +80°C / -40°F to +176°F (see figure 2)
Storage Temperature	-40°C to +85°C / -40°F to +185°F
Relative Humidity	0 to 90%
Altitude	2000 m / 6560 ft at full power

Standards Compliance

Safety	UL62368-1, EN62368-1, IEC62368-1	
EMC	FCC CFR 47 Part 15 Class A conducted and Class B radiated	
Environment	REACH; RoHS	

Mechanics

Dimensions (H ¥ W ¥ D)	41 x 84.5 x 252.5 mm / 1.61 x 3.33 x 9.94 inches
Weight	1.13 kg / 2.49 lbs

Ordering Information

Part Number	Description	
1C48582000P3	eSure™ converter, -48 to -58 VDC, 2000 W peak / 1600 W average	

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C48/58-2000P3 (02/2024)

Figures

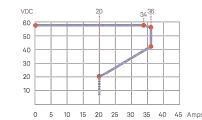


Figure 1: Output Voltage vs. Output Current at Maximum peak Power 2000 W

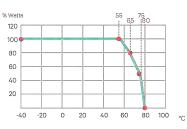


Figure 2: Output Power vs. Temperature at -41VDC≥Vin ≥ -58VDC

SUPPLEMENTAL

SHEET NUMBER:

R-604

PROPOSED -48/-58V DC CONVERTER DETAIL

Pxxx: Bulk Pipe



art#	Length	OD x Length (in)
	Schedu	le 40
260	5'-0"	2-3/8" x 60"
263	5'-3"	2-3/8" x 63"
272	6'-0"	2-3/8" x 72"
284	7'-0"	2-3/8" x 84"
296	8'-0"	2-3/8" x 96"
2108	9'-0"	2-3/8" x 108"
2120	10'-0"	2-3/8" x 120"
2126	10'-6"	2-3/8" x 126"
2150	12'-6"	2-3/8" x 150"
2174	14'-6"	2-3/8" x 174"
2252	21'-0"	2-3/8" x 252"
3072	6'-0"	2-7/8" x 72"
P3084	7'-0"	2-7/8" x 84"
23096	8'-0"	2-7/8" x 96"
230108	9'-0"	2-7/8" x 108"
30120	10'-0"	2-7/8" x 120"
P30126	10'-6"	2-7/8" x 126"
30150	12'-6"	2-7/8" x 150"
230174	14'-6"	2-7/8" x 174"
230252	21'-0"	2-7/8" x 252"
P360	5'-0"	3-1/2" x 60"
372	6'-0"	3-1/2" x 72"
2384	7'-0"	3-1/2" x 84"
396	8'-0"	3-1/2" x 96"
3150	12'-6"	3-1/2" x 150"
3160	13'-4"	3-1/2" x 160"
P3174	14'-6"	3-1/2" x 174"
3216	18'-0"	3-1/2" x 216"
P3252	21'-0"	3-1/2" x 252"
472	6'-0"	4-1/2" x 72"
P4126	10'-6"	4-1/2" x 126"
P4252	21'-0"	4-1/2" x 252"



Features:

Factory cut end, hot-dip galvanized pipe

Construction:

- ASTM A53 Grade B
- Schedule 40 or Schedule 80

Design Criteria:

- ASTM A53 Grade B (Yield Fy = 35 ksi [240 MPa]/ Tensile Fu = 60 ksi [415 MPa])
- Hot dip galvanized in accordance with ASTM A123 requirements

Part #	Length	OD x Length (in)	
Schedule 80			
P2252-80	21'	2-1/2" x 252"	
P30126-80	10'-6"	2-7/8" x 126"	
P30252-80	21′	2-7/8" x 252"	
P3252-80	21'	3-1/2" x 252"	

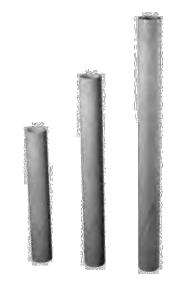
SitePro1.com 888-438-7761

1 PROPOSED PIPE MOUNT DETAIL

Pxxx: Bulk Pipe



art#	Length	OD x Length (in)
	Schedu	ile 40
260	5'-0"	2-3/8" x 60"
263	5'-3"	2-3/8" x 63"
272	6′-0″	2-3/8" x 72"
P284	7'-0"	2-3/8" x 84"
296	8'-0"	2-3/8" x 96"
2108	9'-0"	2-3/8" x 108"
P2120	10'-0"	2-3/8" x 120"
2126	10'-6"	2-3/8" x 126"
2150	12'-6"	2-3/8" x 150"
2174	14'-6"	2-3/8" x 174"
P2252	21'-0"	2-3/8" x 252"
93072	6'-0"	2-7/8" x 72"
23084	7'-0"	2-7/8" x 84"
23096	8'-0"	2-7/8" x 96"
230108	9'-0"	2-7/8" x 108"
930120	10'-0"	2-7/8" x 120"
230126	10'-6"	2-7/8" x 126"
230150	12'-6"	2-7/8" x 150"
230174	14'-6"	2-7/8" x 174"
230252	21'-0"	2-7/8" x 252"
2360	5'-0"	3-1/2" x 60"
2372	6'-0"	3-1/2" x 72"
2384	7'-0"	3-1/2" x 84"
2396	8'-0"	3-1/2" x 96"
23150	12'-6"	3-1/2" x 150"
P3160	13'-4"	3-1/2" x 160"
P3174	14'-6"	3-1/2" x 174"
93216	18'-0"	3-1/2" x 216"
23252	21'-0"	3-1/2" x 252"
2472	6'-0"	4-1/2" x 72"
P4126	10'-6"	4-1/2" x 126"



Features:

Factory cut end, hot-dip galvanized pipe

Construction:

- ASTM A53 Grade B
- Schedule 40 or Schedule 80

Design Criteria:

- ASTM A53 Grade B (Yield Fy = 35 ksi [240 MPa]/ Tensile Fu = 60 ksi [415 MPa])
- Tensile Fu = 60 ksi [415 MPa])

 Hot dip galvanized in accordance with ASTM A123 requirements

Part #	Length	OD x Length (in)		
	Sched	ule 80		
P2252-80	21'	2-1/2" x 252"		
P30126-80	10'-6"	2-7/8" x 126"		
P30252-80	21'	2-7/8" x 252"		

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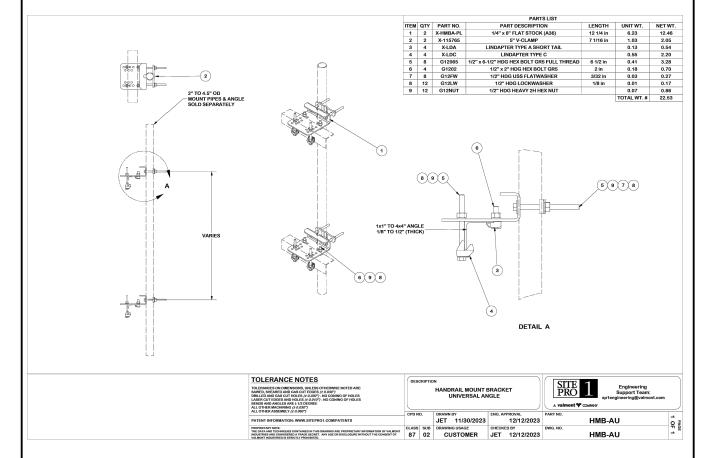
PROPOSED PIPE MOUNT DETAIL

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SHEET NUMBER:

R-605

SUPPLEMENTAL



PROPOSED CROSSOVER PLATE KIT DETAIL



U-bolts A valmont ♥ COMPANY

Features: Includes nuts, locks, and flat washers, long thread lengths. Hot-dip galvanized.

Construction: SAE J429 Gr. 2. Coarse threads.

Design Criteria: Conforms to the minimum requirements as stated in SAE J429 (Latest Revision) Grade 2 Stud, Rolled or Cut CNC threads. SAE J429 Grade 2 (Yield Fy = 57 ksi / Tensile Fu = 74 ksi). All finished goods are Hot Dip Galvanized in accordance with ASTM A123 requirements.

Part #	Diameter (D)	Width (W)	Length (L)	Thread (T)	Weight
UB3200	3/8"	2"	3″	1-1/4"	0.40 lb.
UB3212	3/8"	2-1/2"	3-5/8"	1-3/4"	0.45 lb.
UB3300	3/8"	3"	4-1/4"	2"	0.50 lb.
UB3312	3/8"	3-1/2"	4-3/4"	2"	0.50 lb.
UB3418	3/8"	4"	5-3/4"	2-1/2"	0.60 lb.
UB1400	1/2"	2"	4"	2"	0.65 lb.
UB1212	1/2"	2-1/2"	4-1/2"	2"	0.65 lb.
UB1300	1/2"	3"	5"	2"	0.70 lb.
UB1358	1/2"	3-5/8"	5-1/2"	3″	0.75 lb.
UB1306	1/2"	3-5/8"	6"	3"	0.80 lb.
UB1418	1/2"	4-1/8"	6"	3″	0.90 lb.
UB1458	1/2"	4-5/8"	7"	3"	0.90 lb.
UB5258	5/8"	2-5/8"	4-1/2"	2"	1.20 lb.
UB5358	5/8"	3-5/8"	6"	3"	1.45 lb.
UB5458	5/8"	4-5/8"	7"	3"	1.60 lb.



New York, NY 888-438-7761

Los Angeles, CA 888-776-1937

Atlanta, GA 866-901-0603 Plymouth, IN 888-753-7446 **Dallas, TX** 888-809-5151

Salem, OR

888-880-9191

PROPOSED U-BOLT DETAIL
SCALE: N.T.S

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SUPPLEMENTAL

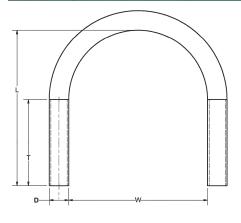
SHEET NUMBER:

R-606

_

U-bolts

A **valmont of** company





Features: Includes nuts, locks, and flat washers, long thread lengths. Hot-dip galvanized.

Construction: SAE J429 Gr. 2. Coarse threads.

Design Criteria: Conforms to the minimum requirements as stated in SAE J429 (Latest Revision) Grade 2 Stud, Rolled or Cut CNC threads. SAE J429 Grade 2 (Yield Fy = 57 ksi / Tensile Fu = 74 ksi). All finished goods are Hot Dip Galvanized in accordance with ASTM A123 requirements.

Part #	Diameter (D)	Width (W)	Length (L)	Thread (T)	Weight
UB3200	3/8"	2"	3″	1-1/4"	0.40 lb.
UB3212	3/8"	2-1/2"	3-5/8"	1-3/4"	0.45 lb.
UB3300	3/8"	3″	4-1/4"	2"	0.50 lb.
UB3312	3/8"	3-1/2"	4-3/4"	2"	0.50 lb.
UB3418	3/8"	4"	5-3/4"	2-1/2"	0.60 lb.
UB1400	1/2"	2"	4"	2"	0.65 lb.
UB1212	1/2"	2-1/2"	4-1/2"	2"	0.65 lb.
UB1300	1/2"	3"	5"	2"	0.70 lb.
UB1358	1/2"	3-5/8"	5-1/2"	3″	0.75 lb.
UB1306	1/2"	3-5/8"	6"	3"	0.80 lb.
UB1418	1/2"	4-1/8"	6"	3″	0.90 lb.
UB1458	1/2"	4-5/8"	7"	3"	0.90 lb.
UB5258	5/8″	2-5/8"	4-1/2"	2"	1.20 lb.
UB5358	5/8"	3-5/8"	6"	3"	1.45 lb.
UB5458	5/8"	4-5/8"	7"	3"	1.60 lb.



New York, NY 888-438-7761 Los Angeles, CA 888-776-1937 Salem, OR 888-880-9191

Atlanta, GA 866-901-0603 Plymouth, IN 888-753-7446

Dallas, TX 888-809-5151

PROPOSED U-BOLT DETAIL

SCALE: N.T.S.

SUPPLEMENTAL

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SXK 125 5394/2

Universal B2B Bracket CC110

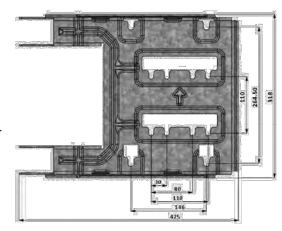
Universal B2B Bracket CC110 is designed for installation of back to back ERS on any supporting structure i.e. pole, mast, tower leg etc. It is Low PIM bracket. When installed properly, it meets the requirements of installation in High Risk PIM Zones. Static and dynamic testing was conducted as per IEC 61000-4-3: 2020 PRV and ITU-R SM-329.

Robustness

The Universal B2B Bracket CC110 kit supports for installation of back to back ERS weight upto 50 kg on each side simultaneously. It supports the ERS mounting on pole, mast, tower leg or square tube. Easy installation due to use of carriage bolts for mounting on the supporting structure and key holes for ERS in the bracket. Bush separators has been provided to avoid any contact of arms with each other.

Quality

All components of the assembly are made of galvanized High Tensile Steel, which supports corrosion resistance.





Ericsson | SXK 125 5394/2

May 2021 2

Technical specification

Functional Description SXK 125 5394/2

Universal B2B Bracket CC110 kit supports installation of ERS back to back with Centre to Centre distance of 30mm x 110mm, 80mm x 110mm and 110mm x 110mm. It also supports two RRUs (back to back) with Centre to Centre distance of 146mm x 264.5 mm (old generation ERS). ERS or RRU are mounted back to back in portrait position on any supporting structure with ERS or RRU weight up to 50 kg on each side.







¥6. — d					
Product	Universal B	2B Brac	ket CC110		
Product number	SXK 125 53	94/2			
Mounting range	Profile	١	Minimum	Maximum	
	Circular tub		025 mm 1 inch)	Ø120 mm (4,7 inch)	
	60º Angle	3	35 mm Openir 1.4 inch)	` ,	ning
	90º Angle	3	35 x 35 mm 1.4 X 1.4 inch	112 x 112 mn	•
	Square tube	e 3	35 x 35 mm 1.4 X 1.4 inch	80 x 80 mm	•
Mechanical specification			<u> </u>	· · · · ·	
•	Brackets		High Tensile S	Steel, Galvanized	
	Fasteners		Grade 8.8 Ga	vanized & A4	
	Bush Separ	ators	Composite me	aterial(PBT+PET)-0	GF30
Recommended tools					
	M8 ISO, 131	mm tor	que wrench (1	0-22 Nm)	
	M10 ISO, 16	6mm &	17mm torque	wrench (15-25 Nm)
Performance					
	Maximum v	vind spe	eed	67 m/s (240 km/l	n, 149 mph)
	Survival wir	nd spee	d	90 m/s (324 Km/	h, 201 mph)
	Maximum e			2 x 50 Kg (2 x 11	
Packaging dimension	Length	Width	Height	Package Weight	Product Weight
Universal B2B Bracket CC110	480 mm	360 mn	n 80 mm	10.4 Kg	10.0 Kg
(SXK 125 5394/2)	(18.9 in)	(14.2 in) (3.2 in)	(22.9 lbs)	(22.0 lbs)

ericsson.com

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SUPPLEMENTAL

SHEET NUMBER:



Mount Analysis Report

Mount Type : 10.5 ft Sector Frame

: 280251

ATC Asset Name : SPOUT SPRINGS NC

Engineering Number : 14884017_C8_02

Mount Elevation : 190.5 ft

ATC Asset Number

Proposed Carrier : AT&T Mobility

Carrier Site Name : 368-389

Carrier Site Number : WSVWN0054969

Site Location : 641 NC Hwy 24-87

> Cameron, NC 27332-6191 35.264775, -79.048239

A.T. Engineering Service, PLLC - 1 Fenton Main, Suite 300 - Cary, NC 27511 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com

County : Harnett

Date : March 5, 2025

Max Usage : 100%

Analysis Result : Contingent Pass

Prepared By: Zach Stoll





Isaac Dodson 15:57:15 -05'00'

Digitally signed by Isaac Dodson Date: 2025.03.05 AMERICAN TOWER

Eng. Number 14884017 C8 02 March 5, 2025 Page 3

Introduction

The purpose of this report is to summarize results of the mount analysis performed for AT&T Mobility at 190.5 ft.

Supporting Documents

Specifications Sheet:	Kenwood T1672KT10, dated April 6, 2016
Radio Frequency Data Sheet:	RFDS ID #12626511, dated October 4, 2024
Reference Photos:	Site photos from 2022

<u>Analysis</u>

This mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

Basic Wind Speed:	118 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	37 mph (3-Second Gust) w/ 0.62" radial ice concurrent
Codes:	ANSI/TIA-222-I
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Sds = 0.18, Sd1 = 0.11
Site Class:	D - Stiff Soil
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

^{*}Live Load(s) reduction is confirmed to either not govern or not be applicable

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

- Install P2 (2.375" x 120") in mount pipe position MA1 and MA2. Connect with Site Pro 1 HMB-AU (or approved equivalent) U-Bolts.
- Replace mount pipe in positions 1 and 3 with P2 (2.375" x 120"). Connect with Site Pro 1 UB1212 (or approved equivalent) U-Bolts.
- Replace mount pipe in position 2 with P2.5 (2.875" x 120"). Connect with Site Pro 1 UB1300 (or approved equivalent) U-Bolts.
- No structural failures were addressed with the noted contingencies. Contingencies address Carrier's antenna spacing requirements.
- The rough cost estimate, pre-MOD design, is estimated to be ≤\$10k.

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact

MountAnalysis@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

COA: P-1177

A.T. Engineering Service, PLLC - 1 Fenton Main, Suite 300 - Cary, NC 27511 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com



SUPPLEMENTAL