

AMERICAN TOWER®

ATC SITE NAME: SPOUT SPRINGS NC1

ATC SITE NUMBER: 21274

AT&T MOBILITY SITE ID: SINC006548

AT&T MOBILITY FA LOCATION CODE: 10017390

AT&T MOBILITY SITE NAME: 368-218

AT&T MOBILITY USID: 71630 SITE ADDRESS: 2305 NC 87 S

SANFORD. NC 27332



LOCATION MAP



Electrical only

AT&T MOBILITY ANTENNA AMENDMENT PLAN

AT&T MOBILITY IWM JOB NUMBER(S): WSVWN0055007, WSVWN0057294, WSVWN0055910. WSVWN0055342. WSVWN0056618. WSVWN0056173. WSVWN0056310. AT&T MOBILITY PACE JOB NUMBER(S): MRVWN043897, MRVWN043436, MRVWN043016, MRVWN043414, MRVWN043774, MRVWN042959, MRVWN043577.

PROJECT DESCRIPTION SHEET INDEX **COMPLIANCE CODE** PROJECT SUMMARY THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED SITE ADDRESS ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED DESCRIPTION: REV: DATE: BY: AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE 2305 NC 87 S FOLLOWING CODES AS ADOPTED BY THE LOCAL TOWER WORK: G-001 TITLE SHEET 1 05/14/25 SSF GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO REMOVE (6) ANTENNA(S), (3) RRU(s), (6) TMA(s), AND (1) 2-1/4" SANFORD, NC 27332 BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO G-002 **GENERAL NOTES** 0 05/02/25 ANM COUNTY: HARNETT INSTALL (9) MOUNT PIPE(S), (18) CROSSOVER PLATE KIT(S), G-003 - G-007 APPENDIX B 05/14/25 SSP 1. 2018 NORTH CAROLINA BUILDING CODE (NCBC) **GEOGRAPHIC COORDINATES:** (3) BACK TO BACK RRU BRACKET(S), (2) HOISTING ANCHOR GRIP(S), 2. 2020 NATIONAL ELECTRIC CODE (NEC) WITH NC (2) CABLE HOISTING ANCHOR(S), (9) ANTENNA(S), (6) RRU(s), LATITUDE: 35.27725 C-001 OVERALL SITE PLAN 0 05/02/25 ANM (1) SQUID(S), (1) 0.96" 6 AWG 6 DC POWER TRUNK(S), AND (1) 0.41" LONGITUDE: -79.07085 3. LOCAL BUILDING CODE C-101 DETAILED SITE PLAN 05/14/25 SSP FIBER TRUNK(S). GROUND ELEVATION: 380' AMSL 4 CITY/COLINTY ORDINANCES EXISTING (3) RRU(s), (2) SQUID(S), (1) 0.39" FIBER TRUNK(S), (2) 0.78" C-102 DETAILED EQUIPMENT LAYOUT 0 05/02/25 ANM ZONING INFORMATION 8 AWG 6 DC POWER TRUNK(S), (2) 1.24" 4 AWG 6 DC POWER C-201 TOWER ELEVATION 0 05/02/25 ANM TRUNK(S), (5) 2-1/4" COAX CABLE(S), AND (1) 3/8" RET CONTROL JURISDICTION: HARNETT COUNTY CABLE(S) TO REMAIN. ANM C-401 ANTENNA INSTALLATION 0 05/02/25 PARCEL ID: 9575-86-9090 000 GROUND WORK: ANM C-402 ANTENNA SCHEDULE 0 05/02/25 REMOVE (1) ALPHA TE45V2 POWER PLANT(S). PROJECT TEAM C-501 CONSTRUCTION DETAILS 0 05/02/25 ANM INSTALL (1) ODN512 POWER PLANT(S), (1) FLX16 DOOR UPGRADE(S) TOWER OWNER: APPLICANT: (9) -48V RECTIFIER(S), (7) -58V CONVERTER(S), (4) POWERSAFE SBS **ELECTRICAL DETAILS** F-101 05/14/25 SSP 170F BATTERY(IES), (1) DC12-48-60-0-25E-SS(s), (1) -58V CONVERTER AMERICAN TOWER AT&T MOBILITY E-102 **ELECTRICAL DETAILS** 05/14/25 SSP SHELF(VES), (1) #6 TELCOFLEX CABLE(S), (1) 6672 BBU(s), 10 PRESIDENTIAL WAY (6) VERTIV 50A DC BREAKER(S), (3) 35A 4494 B14/B29 DC WOBURN, MA 01801 E-103 GROUNDING PLAN 1 05/14/25 SSE BREAKER(S), (1) VERTIV 80A DC BREAKER(S), AND (6) VERTIV 30A DC **UTILITY COMPANIES** E-501 **GROUNDING DETAILS** 1 05/14/25 SSP PROPERTY OWNER: **ENGINEER:** POWER COMPANY: CENTRAL EMC **PROJECT NOTES** R-601 - R-614 SUPPLEMENTAL TEP ENGINEERING, PLLC RAGLAND JOHN T THE FACILITY IS UNMANNED. 326 TRYON RD 1575 MINTER SCHOOL RD TELEPHONE COMPANY: VERIZON A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A SANFORD, NC 27332-2486 RALFIGH NC 27603 MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. PROJECT LOCATION DIRECTIONS NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. FROM RALEIGH: TAKE I-440 (OUTER BELTLINE) TO HWY US 1 THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN SOUTH, TAKE EXIT 421/87 SOUTH (DUNN/GREENSBORO), TAKE ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED A RIGHT OFF THE EXIT AND TRAVEL APPROX 48 MILES BEAR RIGHT AT THE FORK (HWY 87 SOUTH FAYETTEVILLE) TRAVEL REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE FOR ABOUT 7 MILES AND MAKE A LEFT ONTO BUFFALO LAKE

COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF

CHANGE UNDER CFR § 1.61000 (B)(7).

TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL



AMERICAN TOWER OFFICE: (919) 661-6351 www.tepgroup.net N.C. LICENSE #P-1403

100% CONSTRUCTION ANM 05/02/2

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SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332



	DATE DRAWN:	05/14/25
	ATC JOB NO:	14884053
	CUSTOMER NAME:	368-218
	CUSTOMER ID:	SINC006548
1 1		

TITLE SHEET

G-001

REVISION:



ROAD (CAROLINA TRACE ENTRANCE). TAKE ANOTHER LEFT

BEFORE THE FIRE STATION. DRIVE PAST THE TRAILER PARK

AND ENTER THROUGH DIRT ROAD.

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, AT&T MOBILITY "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
- AC/TELCO INTERFACE BOX (PPC)
- 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
- 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 AT&T MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF
- 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
- 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,
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES. GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- 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
- EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS ROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD
- 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
- 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 AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF
- 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

- PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRE PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE
- 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 25 ALL FOLIPMENT 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
- CONTRACTOR SHALL NOTIFY AT&T MORILITY 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
- 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
- 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
- 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.
- 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.
- AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48-HR 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. FITHER 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

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
- INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS.
- INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
- F CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS LISING 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
- 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
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF

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.





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

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DESCRIPTION PRELIMINARY ANM 04/21/25 100% CONSTRUCTION ANM 05/02/25

ATC SITE NUMBER: 21274

ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332

TEP Engineering, PLLC P-1403 ATH CAROLIN SEAL 043134

ON GINE RO

WA H. ON



DATE DRAWN: 05/02/25 ATC JOB NO: 14884053 CUSTOMER NAME: 368-218 CUSTOMER ID: SINC006548

GENERAL NOTES

SHEET NUMBER

G-002

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)

No CD cpou	IT CONDUCT NO.							
Name of Project: SPOUT SPRINGS NCI Address: 2305 NC 87 S, SANFORD, NC Zip Code 27332								
	Address: 2305 NC 87 S, SANFORD, NC Zip Code _27332 Owner/Authorized Agent: AARON DIAL Phone # (919)4665383							
Owned By:	<u> </u>	//County	✓ Private	_	State			
Code Enforcement Ju		/	County HARM	NETT	State			
Code Emoreement 30	institution.		County HAR	NETT				
CONTACT:								
DESIGNER FIRE	M	NAME	LICENSE#	TELEPHO	NE# E-MAIL			
Architectural TEP	ENGINEERING, PLLC	Jackyo II. Candan	048226	(919) 661-6	jcarden@tepgroup.net			
	ENGINEERING, PLLC	Joshua H. Carden Mark S. Quakenbush	042109	(919) 661-6				
Fire Alarm	El (on (EE) and (o, 1 EE)		0.210)	()				
Plumbing				()				
Mechanical				()				
				()				
Structural Petaining Walls >5' I	High			()				
Other	.11gii			()				
	de firms and individua	ls such as truss, p	recast, pre-engine	ered, interi	or designers, 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 2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14 Alteration: Level I Level II Level III Historic Property Change of Use CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch. 3): RENOVATED: (date) PROPOSED OCCUPANCY(S) (Ch. 3): OCCUPANCY CATEGORY (Table 1604.5): Current: I II III IV Proposed: I III III IV Proposed: I III IV Proposed: I IV IV Proposed: IV Proposed: IV I								
Standpipes:	☐ I-A☐ I-B☐ I-B☐ I-B☐ I-B☐ I-B☐ I-B☐ I-B☐ I-B	☐ I ☐ II Flood Hazard A Yes (Contact th	☐ III ☐ Wet		☐ V-A ☐ V-B ☐ NFPA 13D n for additional			

	G	ross Building Area Table	
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor	N/A		
2 nd Floor	N/A		
Mezzanine	N/A		
1st Floor	225 SQ FT EQUIPMENT PAD		
Basement	N/A		
TOTAL	225 SQ FT EQUIPMENT PAD		
		ALLOWABLE AREA	
Primary Occup	ancy Classification(s): Selec	t one Select one Select one	Select one Select one
Assembly	□ A-1 □ A-2 □ A-3	☐ A-4 ☐ A-5	
Business			
Educational			
Factory	F-1 Moderate F-2 L	ow	
Hazardous		Deflagrate H-3 Combust	☐ H-4 Health ☐ H-5 HPM
		$\exists 2$	
	☐ I-2 Condition ☐ 1 ☐	$\overline{}_2$	
		$\begin{bmatrix} 2 \\ 12 \end{bmatrix}$ $\begin{bmatrix} 3 \\ 14 \end{bmatrix}$	5
Mercantile			
Residential	\square R-1 \square R-2 \square R-3	□ R-4	
Storage	S-1 Moderate S-2	_	
Storage		n Enclosed Repair G	arage
Litility and N	Miscellaneous	ii	arage
•			
-	pancy Classification(s): N/A		
Incidental Uses	` /		
•	hapter 4 – List Code Section	, <u> </u>	
Special Provision	ons: (Chapter 5 – List Code	Sections): N/A	
Mixed Occupan	acy: No Yes	Separation: Hr.	Exception:
☐ Non	apr	olying the height and area	tions for each of the applicable he most restrictive type of to the entire building.
☐ Sepa		hat the sum of	y, the area of the occupancy shall ctual floor area of each use divided by all not exceed 1.





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

SIAIE.	ADDITIONAL INFORMATION CAN BE OBTAINED FR	OM THE	COMPANY.
REV.	DESCRIPTION	BY	DATE
A.	PRELIMINARY	<u>ANM</u>	04/21/25
<u> </u>	100% CONSTRUCTION	<u>ANM</u>	05/02/25
\triangle	100% CONSTRUCTION	SSP	05/14/25
\triangle			
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ATC JOB NO:	14884053
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CUSTOMER ID:	SINC006548

APPENDIX B

SHEET NUMBER:

Actual Area of Occupancy A + Allowable Area of Occupancy A

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}
				(G)	
			<u> </u>	3	
			, O' \ O'		
		// 4			
		ion 50 ublic wa	80//		
	ea increases from Sect	ion 50	as:	20 6	(E)
	meter which fronts a p	Tuby A	e naving	20 feet minimum width	1=(F)
	l Building Perimeter o (F/P) =	A 40	(P)		
c. Rati	Minimum width of p	ublic m	(W)		
e. Perc	ent of frontage increas				
	rea applicable under c			(70)	
				x D (maximum3 stories	s) (506.2).
				406.5.4. The maxim	
	ers must comply with	Table 412 3 1			
	crease is based on the	unsprinklered area	value in		
Ü		•		CA	
			- //		
		ALLOY	//~ <		
		//			
			$L^{(i)}$	SHOWN ON PLANS	CODE REFERENCE
Building Ho	eight in Feet (Table 504.	3)			
	· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , ,	value in		
Building He	eight in Stories (Table 50)4.4)//	> //	I	ı

on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

Structural Frame, including columns, girders, trusses Bearing Walls Exterior	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDE (W/REP	AND T#	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
including columns, girders, trusses Bearing Walls	DISTANCE (FEET)		HAJILD!	NO T#		PENETRATION	
including columns, girders, trusses Bearing Walls	(FEEI)		MAJILDI	MO	ASSEMBLY		JOINTS
including columns, girders, trusses Bearing Walls		_//.	MAJILDI				
trusses Bearing Walls			MAJIL				
Bearing Walls			4/11/4				
Exterior							
		•	\				
North		4	\ Y //				
East		.0	•//				
West		H					
South							
Interior							
Nonbearing Walls and			MAJILDI				
Partitions							
Exterior walls				_			
North				S //			
East							
West South		// `	4711				
Interior walls and partitions		4	\ V //				
Floor Construction		ζΟ,	•//				
Including supporting beams and joists		4	7				
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 Separation	n						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

^{*} Indicate section number permitting reduction

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N.C. LICENSE #P-1403

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN
DIFFERENT JURISDICTIONS DEPENDING ON THE JURISDICTION, PROFESSIONAL.
ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO.
LIC., A DELAWARE LIMITED LIABILITY COMPANY, OR MAH ENSINEERING,
LIC., A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENSINEERING,
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 100% CONSTRUCTION ANM 05/02/25 100% CONSTRUCTION SSP 05/14/25 ATC SITE NUMBER: 21274 ATC SITE NAME: SPOUT SPRINGS NC1 AT&T MOBILITY SITE NUMBER: SINC006548 AT&T MOBILITY SITE NAME: 368-218 SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332

043134 ON WGINEER DENT

DATE DRAWN: 05/14/25 ATC JOB NO: 14884053 CUSTOMER NAME: 368-218 CUSTOMER ID: SINC006548

APPENDIX B

SHEET NUMBER:

G-004

REVISION:

2018 NC Administrative Code and Policies

2018 NC Administrative Code and Policies

Provide code reference if the "Shown on Plans" of

			<u> </u>				
	PERCENTAGE OF V	WALL OY	VG CALCUL	ATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	PERCENTAGE OF V DEGREE OF OPENINGS PROTECTION (TABLE 705.8) LIFE SA		E AREA	ACTUAL SHOWN ON PLANS (%)			
		Q.A	` //				
		> //					
			TO TO THE WORLD				
Emergency Lighting:	LIFE SA	TEM REQU	TREMENTS				
Exit Signs:	□ No □ Yes						
Fire Alarm:	☐ No ☐ Yes						
Smoke Detection Systems:		Partial					
Panic Hardware:	☐ No ☐ Yes						
	LIFE SAFETY PLAN	N REOUIRI	EMENTS				
Life Safety Plan Sheet #:							
Fire and/or smoke rated w	rall locations (Chapter 7)						
Assumed and real property	· - ·	he site plan)	•				
Exterior wall opening area	with respect to distance to	o assumed p	erty lines (705.	,			
Occupancy Use for each aOccupant loads for each a	rea as it relates to occupan	it load ca	Table 1004	.1.2)			
Exit access travel distance	es (1017)		3 0>				
Common path of travel dis	stances (Tables 1006.2.1	, D , C					
Dead end lengths (1020.4) Clear exit widths for each	ovit door						
Maximum calculated occu		can a	accommodate base	ed on egress width (1005.3)			
Actual occupant load for e	each exit do	•					
A separate schematic plan purposes of occupancy sep	indicating	/loor/ceilin	ng and/or roof struc	cture is provided for			
Location of doors with par	nic hardware (101 10)						
Location of doors with del	layed egress locks and the						
Location of doors with ele		(1010.1.9.9))				
	 □ Location of doors equipped with hold-open devices □ Location of emergency escape windows (1030) 						
☐ The square footage of each	_						
The square footage of each	_			•			
☐ Note any code exceptions	or table notes that may ha	ve been utili	zed regarding the i	items above			

ACCESSIBLE DWELLY G UNITS (SECTION 1/ ACCESSIBLE

NOT A BUILDING TOTAL ACCESSIBLE TYPE B TOTAL Units UNITS UNITS UNITS ACCESSIBLE UNITS REQUIRED PROVIDED REQUIRED PROVIDED PROVIDED

LOT OR PARKING AREA	TOTAL # OF PA	RKING SA PROVIDE		CESSIBLE SPACES PRO VAN SPACE		TOTAL # ACCESSIBLE
			5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	PROVIDED
TOTAL						

PLUMBING FIXTURE P TREMENTS (TABLE)

					//					
USE		WATERCLOSETS		URINAL		Ś	SHOWERS	DRINKING	FOUNTAINS	
		MALE	FEMALE	UNISEX		E	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G									
	NEW				4					
	REQ'D				(

AAL APPROVALS

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

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STATE. A	ADDITIONAL INFORMATION CAN BE OBTAINED FR	OWITHE	JOWIFAINT.
REV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIMINARY	<u>ANM</u>	04/21/25
△_	100% CONSTRUCTION	<u>ANM</u>	05/02/25
Λ_{-}	100% CONSTRUCTION	SSP	05/14/25
\triangle			
\triangle			

ATC SITE NUMBER: 21274

ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332

043134 NGINEE AD ON NGINEE ADTITUDE HE CARRILLE



DATE DRAWN: 05/14/25 14884053 ATC JOB NO: CUSTOMER NAME: 368-218 CUSTOMER ID: SINC006548

APPENDIX B

SHEET NUMBER:

REVISION:

G-005

ENEF	RGY SUVYARY
ENERGY REQUIREMENTS: The following data shall be considered minimum and also be provided. Each Designer shall furnish the reculif performance method, state the annual energy cosproposed design.	
Existing building envelope complies with	Yes (The remainder of this section is not applicable)
Exempt Building: No S	utory reference):
ASHRAE 90.1	Performance Prescriptive Performance Prescriptive performance Prescriptive performance Prescriptive
THERMAL ENVELOPE (Prescriptive method only	y)
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 assemb
Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors U-Value of assem) Solar heat gain projection for Door R-Van	A BIII DING
Walls below grade (each assembly: Description of assembly: U-Value of total assembly: R-Value of insulation: Floors over unconditioned space (each as	
Description of assembly: U-Value of total assembly:	
Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated:	

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LUADS:	
Importance Factors:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Live Loads:	Roof psf Mezzanine psf Floor psf
Ground Snow Load:	psf
	psf asic Wind Speed xposure Category RY: D Scign P 604 W B CE 7) B C D E F CE 7 CE
SEISMIC DESIGN CATEGOR	RY: D D
Provide the following Seismic De Risk Category (Table 1 Spectral Response Acc	esign P 604 III IV et S ₁ %g
Site Classification (ASC	CE7) B C D DE DF
Data Sc	ource:
Basic structural system	Dual w/Special Moment Frame ☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure:	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechan	ical, Components anchored?
LATERAL DESIGN CONTRO	DL: Earthquake Wind
SOIL BEARING CAPACITIES	S:
Field Test (provide copy Presumptive Bearing cap Pile size, type, and capa	

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326 TRYON ROAD

RALEIGH, NC 27603-3530

OFFICE: (919) 661-6351

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REV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIMINARY	ANM	04/21/25
△_	100% CONSTRUCTION	ANM	05/02/25
\bigwedge	100% CONSTRUCTION	SSP	05/14/25
$\overline{\wedge}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 21274

ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S

SANFORD, NC 27332



REVISION:



DATE DRAWN: 05/14/25 ATC JOB NO: 14884053 CUSTOMER NAME: 368-218 CUSTOMER ID: SINC006548

APPENDIX B

SHEET NUMBER:

G-006

ENERGY SUMMARY

ENERGY REQUIREMENTS:

2018 NC Administrative Code and Policies

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the

Existing building envelope complies with code:	□ No □	Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide code of	r statutory refe	<u></u>
Climate Zone: 3A 4A 5A		G
Method of Compliance: Energy Code ASHRAE 90.1 (If "Other"	A BIILD	Prescriptive Prescriptive e)
THERMAL ENVELOPE (Prescriptive	P	
Roof/ceiling Assembly (each		
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		
Exterior Walls (each assembly)		
Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors with U-Value of assembly: Solar heat gain coefficien projection factor: Door R-Values:		
Walls below grade (each assembly)		
Description of assembly: U-Value of total assembly: R-Value of insulation:		
Floors over unconditioned space (each ass	sembly)	
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: slab heated:		

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

ESIGN LOADS:

Importance Fact		w (I _S) smic (I _E)							
Live Loads:	Roc Mez Floo	•		- C					
Ground Snow Lo	oad:	ps	F	OIN					
Wind Load:	Basic W Exposur		ABU		mph (AS	CE-7)			
SEISMIC DESIGN CAT	EGOR	S.	В	□С	\square D				
Provide the following Seis Risk Category (7		N			□IV				
Spectral Respon			S _s	%g		S_1		_%g	
Site Classificatio	n (ASCE 7) Data Source:	☐ A ☐ Field	□ B Test	☐ C	D umptive	☐ E	☐ F orical Da	ata	
Basic structural	system	_	ng Wall ing Fram	e	_	-		ent Frame R/C or Specia	al Steel
		Mome	ent Frame	•	☐ Inver	ted Pend	lulum	-	
Analysis Procedu			lified		uivalent I		orce	Dynamic	
Architectural, M	echanical, C	omponen	ts ancho	red?	Yes Yes	☐ No			
LATERAL DESIGN CO	NTROL:	Earthquak	e 🗌	Wind					
SOIL BEARING CAPAC									
Field Test (providence									
Presumptive Bear Pile size, type, an					psf				





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REV.	DESCRIPTION	BY	DATE
A_	PRELIMINARY	ANM	04/21/25
$\overline{\mathbb{A}}$	100% CONSTRUCTION	ANM	05/02/25
<u> </u>	100% CONSTRUCTION	SSP	05/14/25
$\overline{\wedge}$			
\triangle			

ATC SITE NUMBER: 21274

ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332



REVISION:



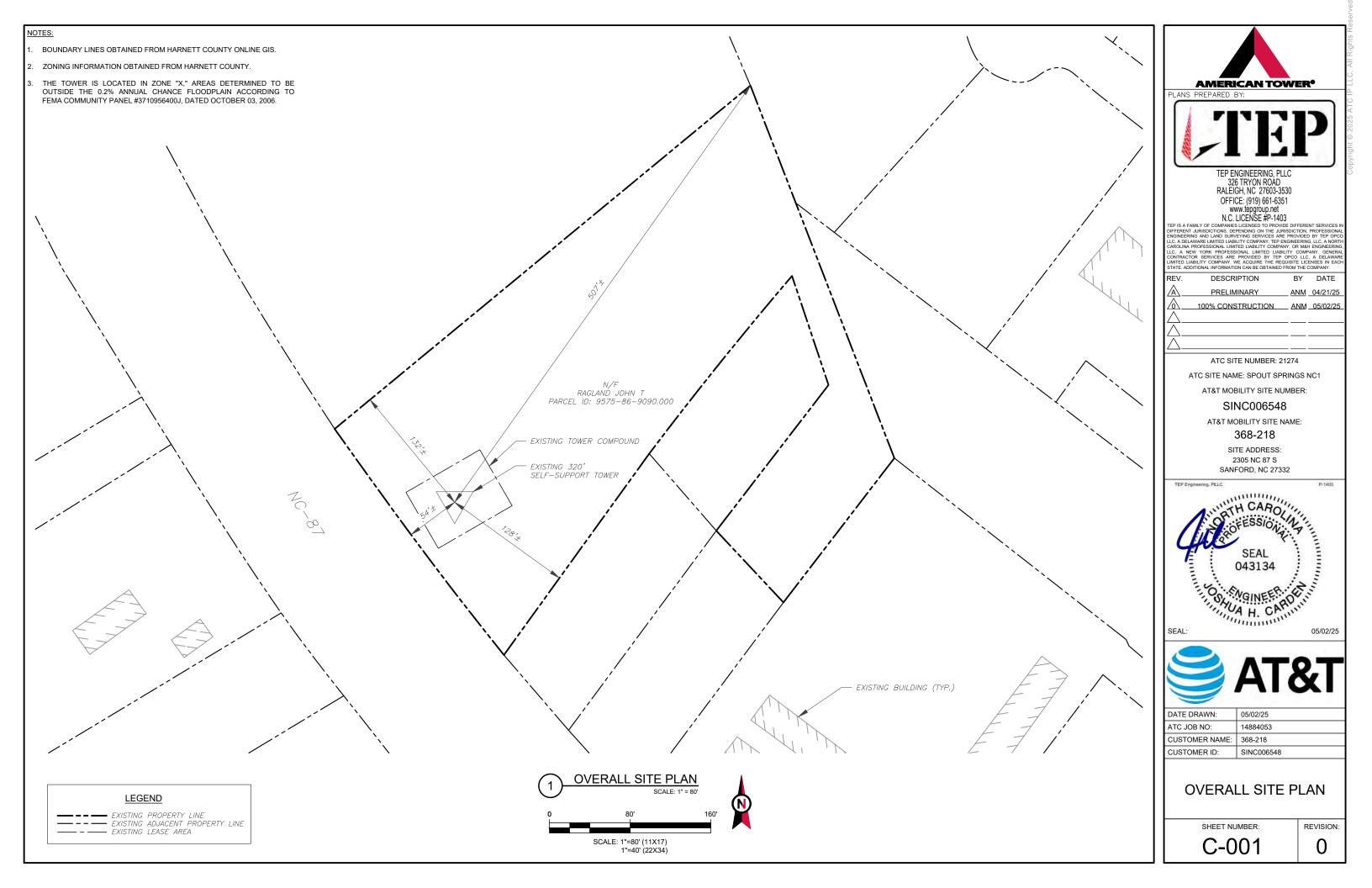
DATE DRAWN:	05/14/25
ATC JOB NO:	14884053
CUSTOMER NAME:	368-218
CUSTOMER ID:	SINC006548
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APPENDIX B

SHEET NUMBER:

G-007

2018 NC Administrative Code and Policies



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
- 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.

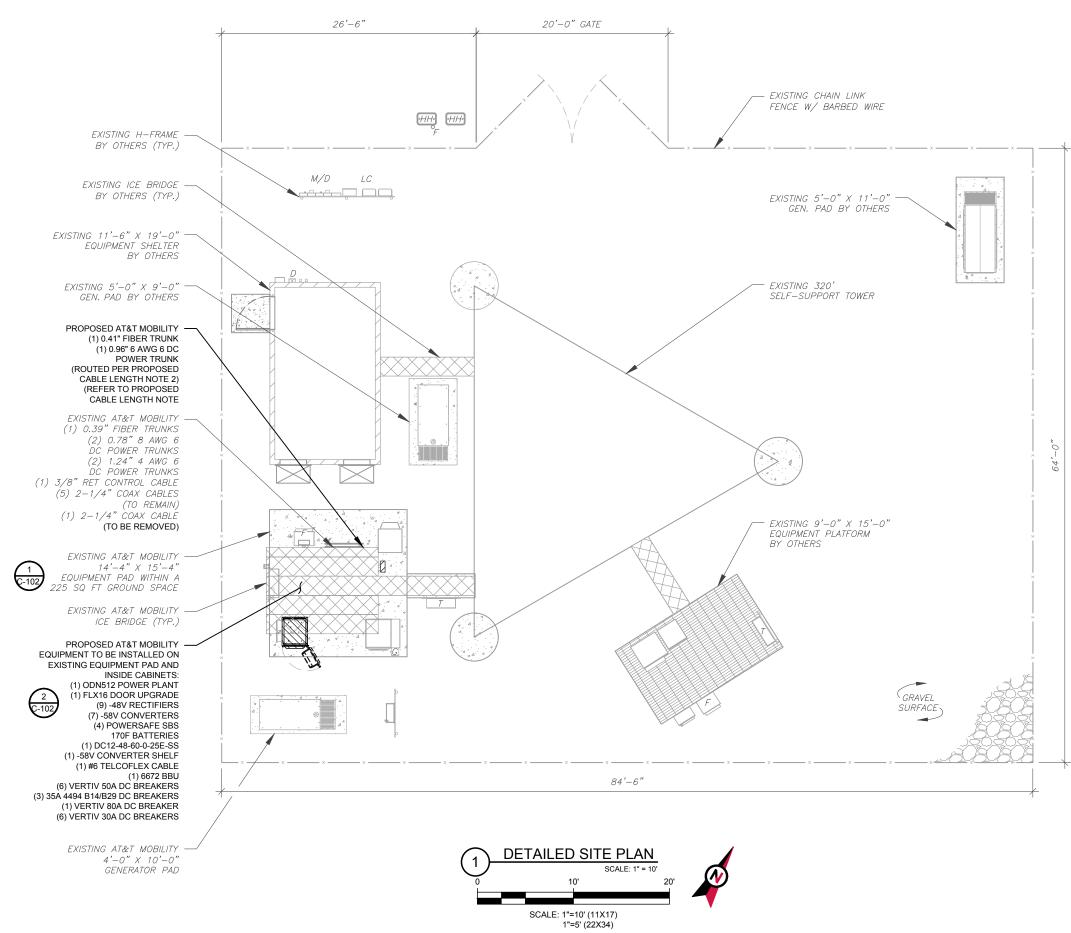
LEGEND

⊗ GROUNDING TEST WELL ATS AUTOMATIC TRANSFER SWITCH B BOLLARD CSC CELL SITE CABINET DISCONNECT D ELECTRICAL **FIBER** GEN GENERATOR GENERATOR RECEPTACLE HH, V HAND HOLE, VAULT ΙB ICE BRIDGE KENTROX BOX LC LIGHTING CONTROL METER PB PULL BOX PP POWER POLE TELCO TRN TRANSFORMER

CHAINLINK FENCE

PROPOSED CABLE NOTES:

- ESTIMATED LENGTH OF PROPOSED CABLE IS <u>380</u>'. 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.
- 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)







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REV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIMINARY	ANM	04/21/25
△_	100% CONSTRUCTION	ANM	05/02/25
Λ	100% CONSTRUCTION	SSP	05/14/25
$\overline{\wedge}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 21274

ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332

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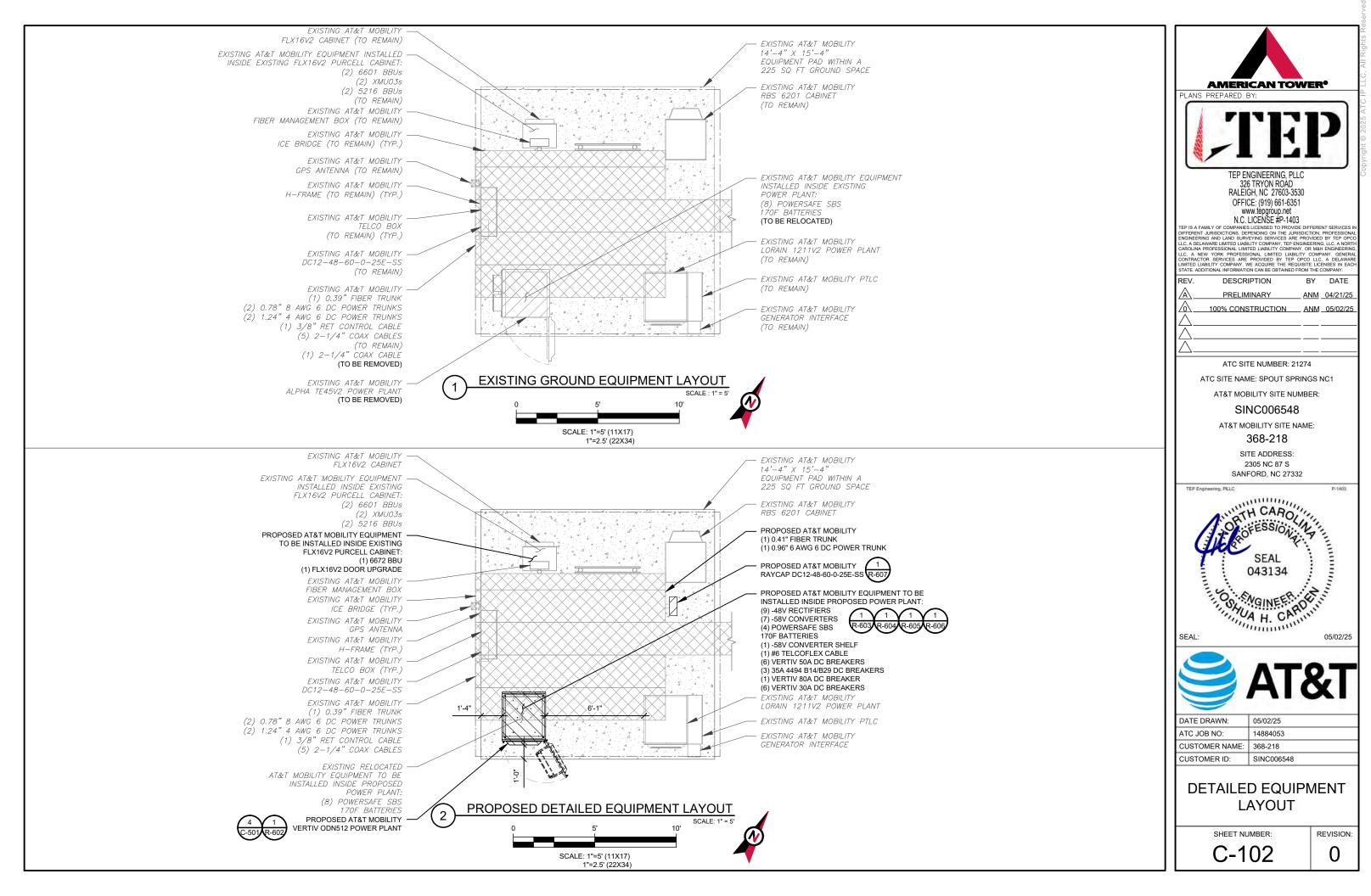


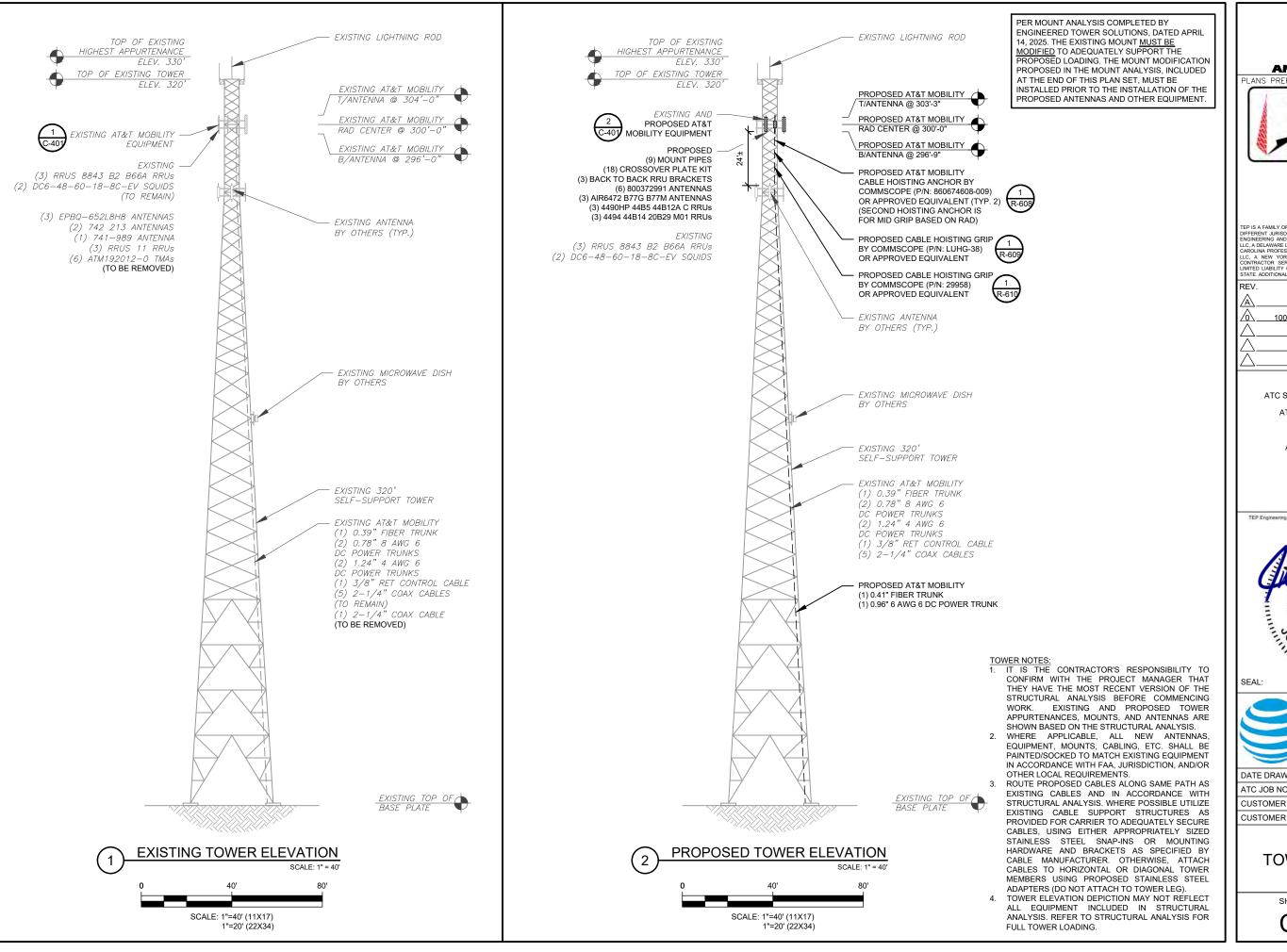
DATE DRAWN:	05/14/25
ATC JOB NO:	14884053
CUSTOMER NAME:	368-218
CUSTOMER ID:	SINC006548

DETAILED SITE PLAN

SHEET NUMBER:

C-101





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LANS PREPARED BY:



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 REV.
 DESCRIPTION
 BY
 DATE

 A
 PRELIMINARY
 ANM
 04/21/25

 A
 100% CONSTRUCTION
 ANM
 05/02/25

ATC SITE NUMBER: 21274

ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S

SANFORD, NC 27332

TEP Engineering, PLLC
P-1403

TH CARO

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05/02/21

AT&T

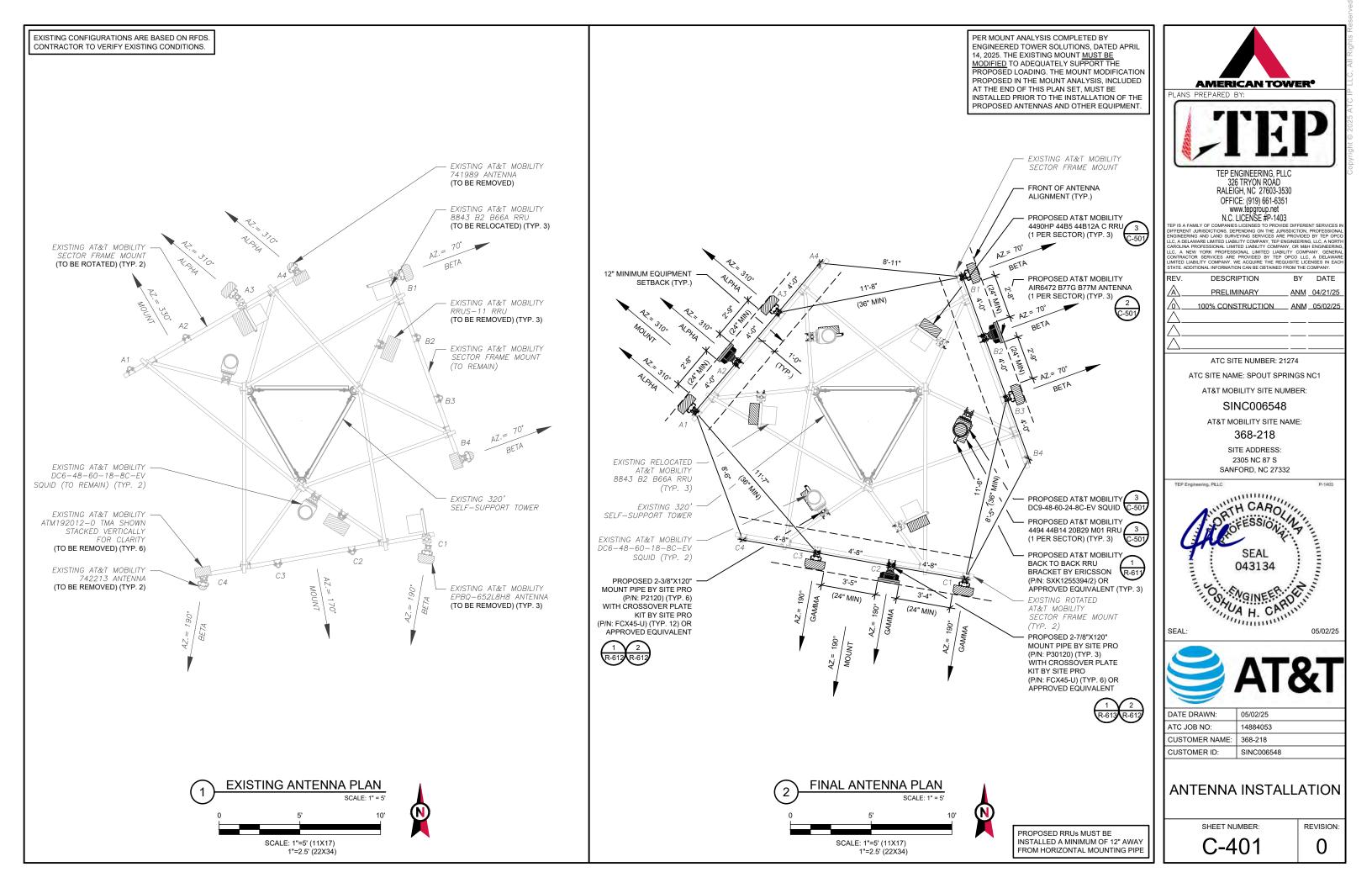
l	DATE DRAWN:	05/02/25
	ATC JOB NO:	14884053
	CUSTOMER NAME:	368-218
l	CUSTOMER ID:	SINC006548
ı		

TOWER ELEVATION

SHEET NUMBER:

C-201

0



EXISTING ANTENNA SCHEDULE												
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY						
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS				
			A1	_	_	-	_	-				
ALPHA			A2	_	_	-	_	-				
	300'	310°	A3	EPBQ-652L8H8	_	RMV	(1) RRUS 11 (1) 8843 B2 B66A	RMV REL				
			A4	741989	_	RMV	(2) ATM192012-0	RMV				
	300'	300'					B1	EPBQ-652L8H8	_	REL	(1) RRUS 11 (1) 8843 B2 B66A	RMV REL
BETA			70°	B2	_	_	-	-	_			
			B3	-	_	-	-	_				
			B4	742213	_	RMV	(2) ATM192012-0	RMV				
			C1	EPBQ-652L8H8	_	REL	(1) RRUS 11 (1) 8843 B2 B66A	RMV REL				
GAMMA	300'	190°	C2	-	_	-	-	_				
			C3	_	_	_	_	_				
			C4	742213	_	RMV	(2) ATM192012-0	RMV				

NOTES					
1. GC TO VERIFY THE FINAL RFDS	LO				
MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.	SECTOR	RAD	AZ	POS	
				A1	
2. GC TO CAP ALL UNUSED PORTS.	ALPHA	300'	310°	A2	P
3. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER				А3	
CONFLICTS NOR IMPEDE TOWER				A4	
CLIMBING PEGS. 4. THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC, ATC DID NOT				B1	
CONFIRM EXISTING SITE	BETA	300'	70°	B2	P
CONDITIONS INCLUDING, BUT NOT LIMITED TO. ANTENNA AZIMUTHS.				В3	
MOUNT CONFIGURATIONS AND				B4	
TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE				C1	

INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS.

STATUS ABBREVIATIONS

ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE

CONTRACTOR SHALL VERIFY ALL

EXISTING CONDITIONS PRIOR TO

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'

LO	CATION			ANTE	NON ANTENNA SUMMARY					
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS		
			A1	800372991	LTE 700/LTE 850/LTE AWS/ LTE 1900	ADD	(1) 8843 B2 B66A (1) 4490HP 44B5 44B12A C	RMN ADD		
ALPHA	300'	310°	A2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	-	-		
		A3		A3	800372991	LTE 700 (FNET)	ADD	(1) 4494 44B14 20B29 M01	ADD	
			A4	-	-	-	-	-		
		B1	800372991	LTE 700/LTE 850/LTE AWS/ LTE 1900	ADD	(1) 8843 B2 B66A (1) 4490HP 44B5 44B12A C	RMN ADD			
BETA	300'	70°	70°	70°	B2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	=	-
			В3	800372991	LTE 700 (FNET)	ADD	(1) 4494 44B14 20B29 M01	ADD		
			B4	-	-	-	-	-		
	С		C1	800372991	LTE 700/LTE 850/LTE AWS/ LTE 1900	ADD	(1) 8843 B2 B66A (1) 4490HP 44B5 44B12A C	RMN ADD		
GAMMA	300'	190°	C2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	-	-		
			C3	800372991	LTE 700 (FNET)	ADD	(1) 4494 44B14 20B29 M01	ADD		
	C4 -		-	-	-	-	-			

FINAL ANTENNA SCHEDULE

EXISTING FIBER DISTRIBUTION	I/SQUID	EXISTING CABLING SUMMARY					
MODEL NUMBER	COAX	DC / RET	FIBER	STATUS			
(2) DC6-48-60-18-8C-EV	RMN	(5) 2-1/4"	(2) 0.78" 8 AWG 6	(1) 0.39"	RMN		
-	_	_	(2) 1.24" 4 AWG 6	_	RMN		
_	_	_	(1) 3/8" RET	_	RMN		
_	-	(1) 2-1/4"	-	_	RMV		



FINAL FIBER DISTRIBUTION	/SQUID	FINAL CABLING SUMMARY					
MODEL NUMBER	COAX	DC	FIBER	STATUS			
(2) DC6-48-60-18-8C-EV	RMN	(5) 2-1/4"	(2) 0.78" 8 AWG 6	(1) 0.39"	RMN		
-	-	-	(2) 1.24" 4 AWG 6	=	RMN		
-	-	-	(1) 3/8" RET	=	RMN		
(1) DC9-48-60-24-8C-EV	ADD	-	(1) 0.96" 6 AWG 6	(1) 0.41"	ADD		





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N.C. LICENSE #P-14U3

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL RIGHIEFENDR AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCC LLC, A DELAWARE LIMITED LABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LABILITY COMPANY, OR MAIL HORINIERRING LLC, A NEW YORK, PROFESSIONAL LIMITED LABILITY COMPANY, GENERAL LIMITED LABILITY COMPANY, BENERAL STATE ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIMINARY	ANM	04/21/25
<u> </u>	100% CONSTRUCTION	ANM	05/02/25
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ATC SITE NUMBER: 21274

ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332



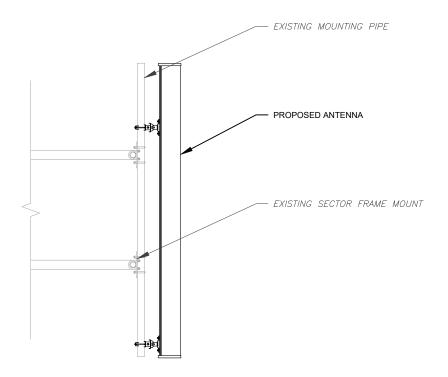
DATE DRAWN:	05/02/25			
ATC JOB NO:	14884053			
CUSTOMER NAME:	368-218			
CUSTOMER ID:	SINC006548			

ANTENNA SCHEDULE

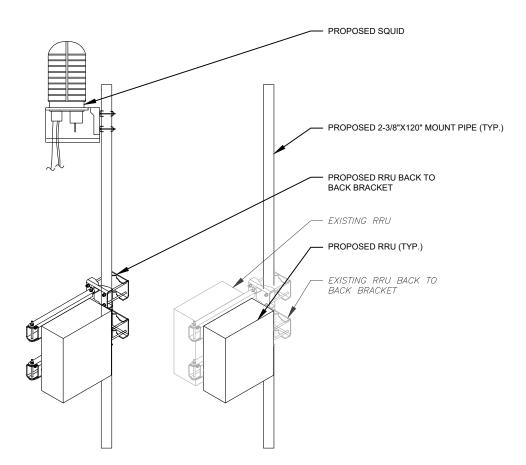
SHEET NUMBER:

C-402

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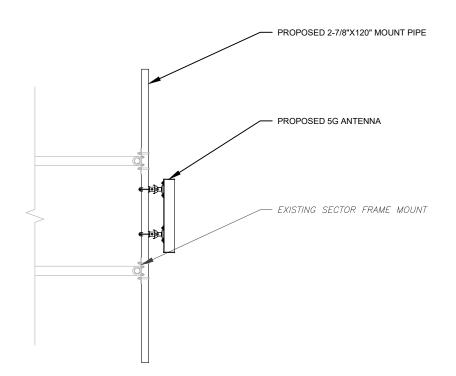


PROPOSED ANTENNA MOUNTING DETAIL
SCALE: N.T.S.



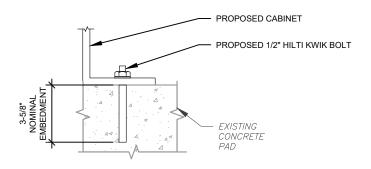
PROPOSED RRU AND SQUID MOUNTING DETAIL

SCALE: N.T.S.



PROPOSED 5G ANTENNA MOUNTING DETAIL

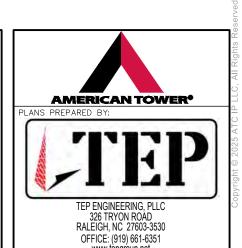
SCALE: N.T.S.



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.

4 CABINET ATTACHMENT DETAIL
SCALE: N.T.S.



WWW.lepgroup.net
N.C. LICENSE #P-1403
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RENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESS
HEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP
DELAWARE LIMITED LABILITY COMPANY, OR MAIL FIGHTER
LINA PROFESSIONAL LIMITED LABILITY COMPANY, OR MAIL FIGHTER
A DRIVEY VIDEN PROFESSIONAL LIMITED LABILITY COMPANY, OR MAIL FIGHTER
A DRIVEY VIDEN PROFESSIONAL LIMITED LABILITY COMPANY, OR

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AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332

TEP Engineering, PLLC
P-1403

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P-1403

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DATE DRAWN:	05/02/25					
ATC JOB NO:	14884053					
CUSTOMER NAME:	368-218					
CUSTOMER ID:	SINC006548					
	ATC JOB NO: CUSTOMER NAME:					

CONSTRUCTION DETAILS

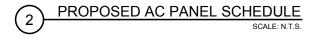
SHEET NUMBER:

C-501

			1		WER PANE DLTS, 1-PH			1			
A CONTRACTOR OF THE CONTRACTOR	MAIN	BREA	KER RAT		20			TEM VOI	TAGE	(V): 2	40
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
PCU #1 / OFF	0	nc	40/2	1	720		2	15/2	nc	720	PRI HETA
PGU#170FF	0	nc	40/2	3		720	4	13/2	nc	720	PRINCIA
PCU #2 / OFF	0	nc	40/2	5	0		6	15/2	nc	0	GRW1 HETA / OFF
FC0 #27 OFF	0	nc	40/2	7		0	8	13/2	nc	0	GRWT HETA/ OFF
PCU #3 / OFF	0	nc	40/2	9	0		10	15/2	nc	0	GRW2 HETA / OFF
100 #37 011	0	nc	40/2	11		0	12	13/2	nc	0	GRW2 HETA / OFF
PCU #4 / OFF	0	nc	40/2	13	960		14	20/2	С	960	A/C
100 #47 011	0	nc	40/2	15		960	16		С	960	
PCU #5	972	С	40/2	17	972		18	20/1	nc	0	RECEPTS / OFF
PG0 #3	972	С	40/2	19		972	20	15/2	nc	0	BBU HVAC / OFF
PCU #6 / OFF	0	nc	40/2	21	0		22	10/2	nc	0	BBO HVAC / OFF
100 #07 011	0	nc	40/2	23		180	24	20/1	nc	180	AUX UPC GFI
GFI	180	nc	15/1	25	2100		26	20/1	nc	1920	A.T.S.
TE45	6000	С	125/2	27		7000	28	20/1	nc	1000	BLOCK HEATER
1140	6000	С	120/2	29	6650	I I FILL	30	20/1	nc	650	BATT CHARGER
PHASE TOTALS (VA):					11402	9832					
PHASE TOTALS (A):				95	82						
CURRENT PER PHASE W/ 125% Continuous Loads(A):				112		Amperes/				breaker rating	
PANEL TOTAL (VA):				212	34	Legend: c = continuous, nc = non-continuous			nc = non-continuous		
PANEL TOTAL W/ 125% Continuous Loads (VA):				ds (VA):	252	00					

	EXISTING AC PANEL SCHEDULE
しって	SCALE: N.T.

			1		VER PANE DLTS, 1-PH		and the second second	4			
	ING (A):			SYSTEM VOLTAGE (V): 24				40			
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
VERTIV RECTIFIER #1 & #2	1380	nc	40/2	1	2100		2	15/2	nc	720	PRI HETA
VERTIVINECTIFIER #1 & #2	1380	nc	40/2	3		2100	4	15/2	nc	720	PRINCIA
VERTIV RECTIFIER #3 & #4	1380	nc	40/2	5	1380		6	15/2	nc	0	SPARE / OFF
VERTIVINECTIFIER #3 & #4	1380	nc	40/2	7		1380	8	13/2	nc	0	SPARE / OFF
VERTIV RECTIFIER #5 & #6	1380	nc	40/2	9	1380		10	15/2	nc	0	SPARE / OFF
VERTIVINECTIFIER #5 & #6	1380	nc	40/2	11		1380	12	13/2	nc	0	SPARE / OFF
VERTIV RECTIFIER #7 & #8	1380	nc	40/2	13	2340		14	20/2	С	960	A/C
VERTIVIRECTIFIER #7 & #0	1380	nc		15		2340	16		С	960	AC
VERTIV RECTIFIER #9	690	С	40/2	17	690		18	20/1	nc	0	SPARE / OFF
VERTIVINECTIFIER #5	690	С		19		690	20	15/2	nc	0	SPARE / OFF
SPARE / OFF	0	nc	40/2	21	0		22	13/2	nc	0	SPARE / OFF
SPARE/ OFF	0	nc	40/2	23		180	24	20/1	nc	180	AUX UPC GFI
GFI	180	nc	15/1	25	2100		26	20/1	nc	1920	A.T.S.
SPARE / OFF	0	С	125/2	27		1000	28	20/1	nc	1000	BLOCK HEATER
SPARE / OFF	0	С	123/2	29	650		30	20/1	nc	650	BATT CHARGER
	9		E TOTAL		10640	9070			7 7 7		
PHASE TOTALS (A):					89	76					
CURRENT PER PHASE W/ 125% Continuous Loads(A):					92		Amperes/				breaker rating
PANEL TOTAL (VA):					197	10		Leger	nd: c =	continuous,	nc = non-continuous
PANEL TOTAL	. W/ 125%	Contin	uous Load	ds (VA):	205	35					







TEP ENGINEERING, PLLC
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ENGINEERING AND LAND SURVEYING SERVICES ANE PROVIDED BY THE OPCOLIC. 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, OR MAH ENGINEERING,
LIC. A NEW YORK PROFESSIONAL LIMITED REQUISITE LICENSES IN EACH
CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LIC., A DELAWARE
IMITED LIABILITY COMPANY ME ACQUIRE THE REQUISITE LICENSES IN EACH
STATE. ADDITIONAL INFORMATION CAN BE OBTAINED PROM THE COMPANY.

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	REV.	DESCRIPTION	BY	DATE
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	△.	100% CONSTRUCTION	ANM	05/02/2
	Λ	100% CONSTRUCTION	SSP	05/14/2
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ATC SITE NUMBER: 21274

ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S SANFORD, NC 27332

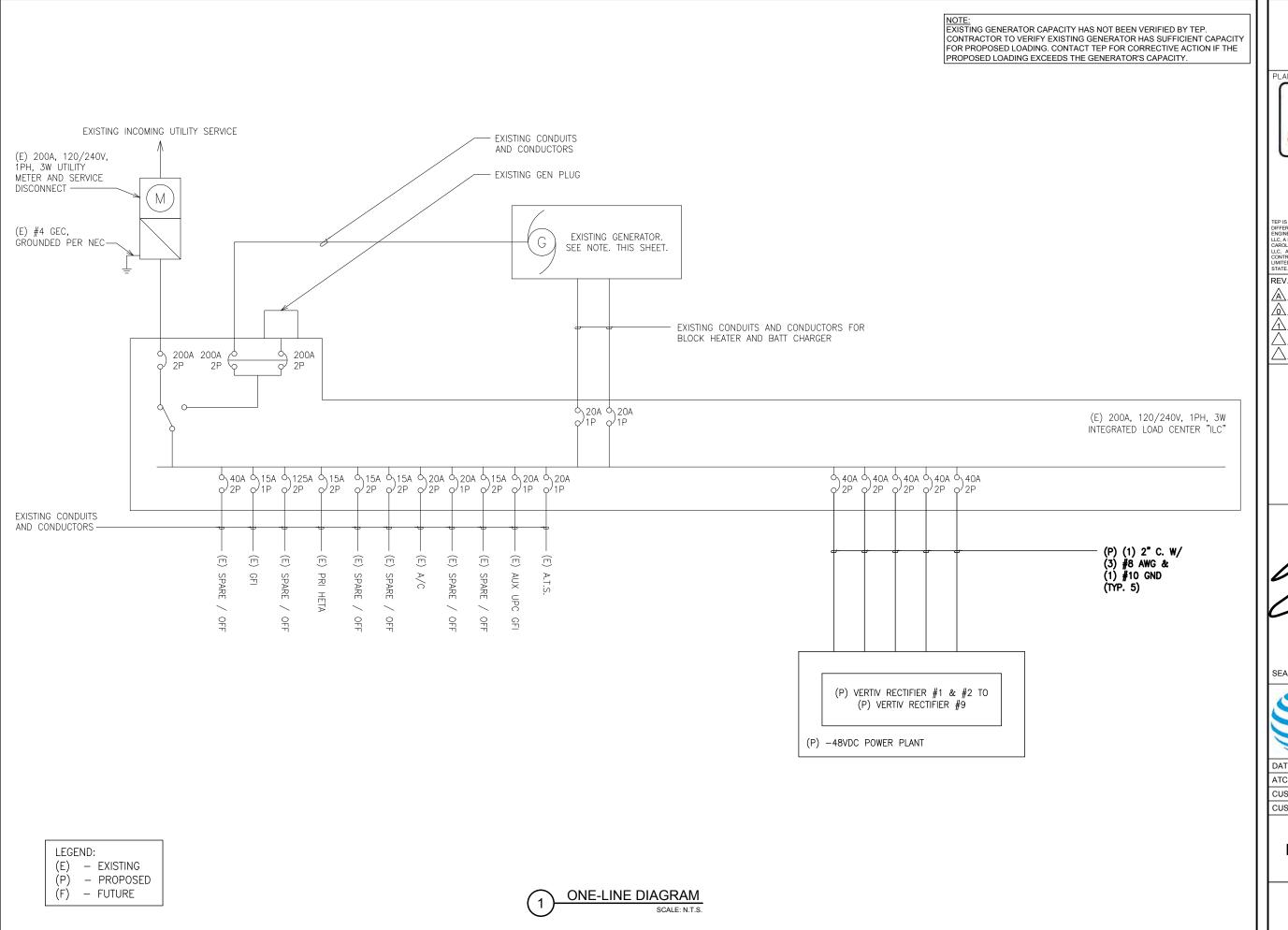




DATE DRAWN:	05/14/25
ATC JOB NO:	14884053
CUSTOMER NAME:	368-218
CUSTOMER ID:	SINC006548

ELECTRICAL DETAILS

SHEET NUMBER: E-101







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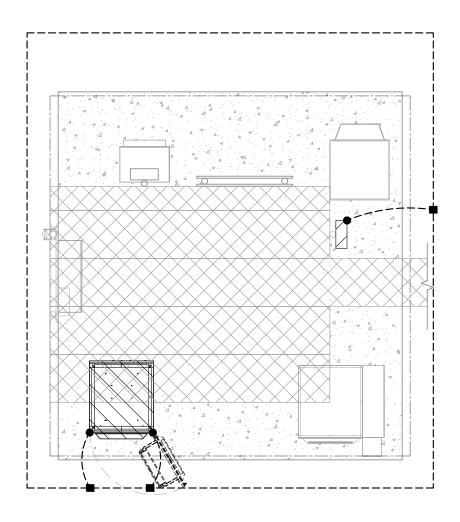


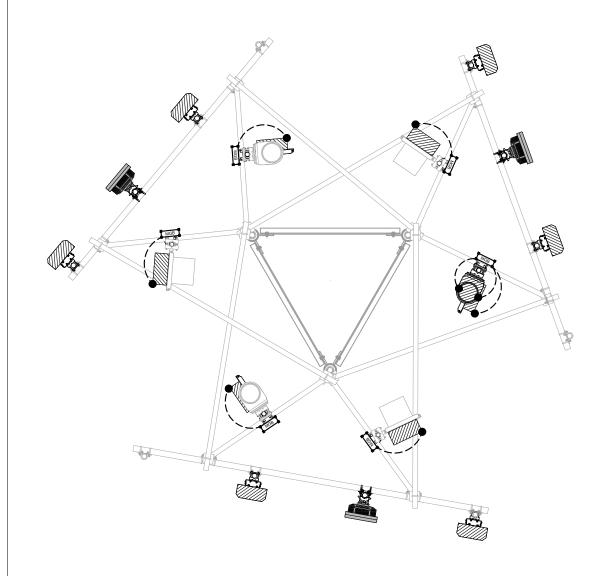
DATE DRAWN:	05/14/25
ATC JOB NO:	14884053
CUSTOMER NAME:	368-218
CUSTOMER ID:	SINC006548

ELECTRICAL DETAILS

SHEET NUMBER:

E-102





LEGEND EXOTHERMIC CONNECTION MECHANICAL CONNECTION ANTENNA GROUND BAR MASTER GROUND BAR











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	△_	100% CONSTRUCTION	ANM.	05/02/25
	\triangle_{-}	100% CONSTRUCTION	SSP	05/14/25
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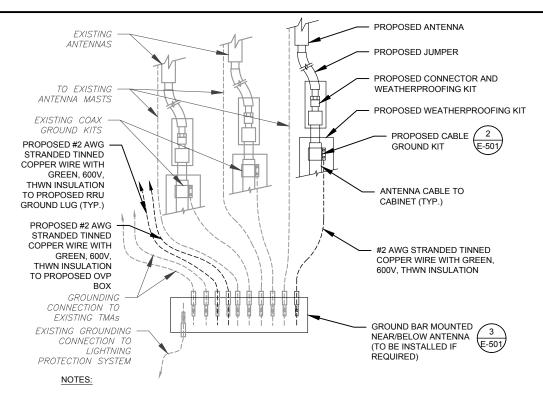


	DATE DRAWN:	05/14/25
	ATC JOB NO:	14884053
	CUSTOMER NAME:	368-218
	CUSTOMER ID:	SINC006548

ELECTRICAL DETAILS

SHEET NUMBER:

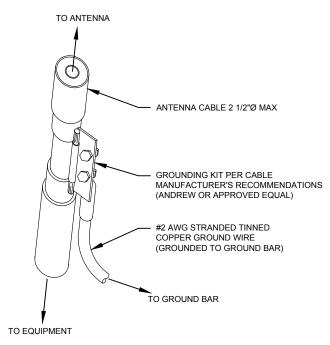
E-103



 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

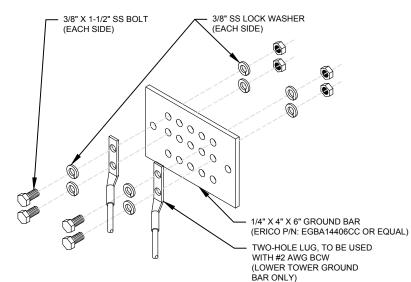
GOVERN.
TYPICAL ANTENNA GROUNDING DIAGRAM



- 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.

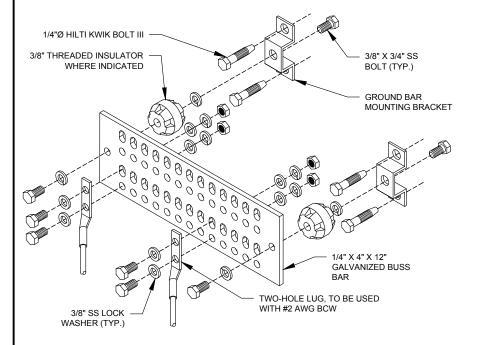




GROUND BAR NOTES:

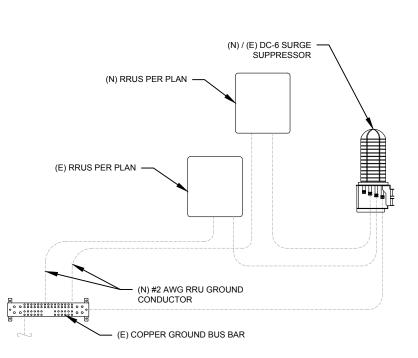
- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

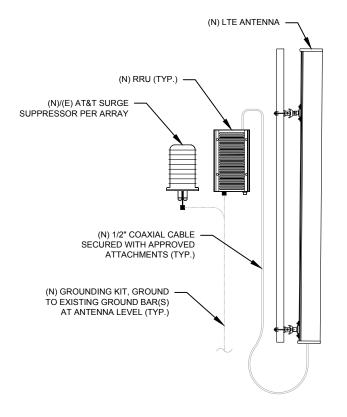




GROUND BAR NOTES

- 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.





ANTENNA/RRU GROUNDING



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ATC SITE NAME: SPOUT SPRINGS NC1

AT&T MOBILITY SITE NUMBER:

SINC006548

AT&T MOBILITY SITE NAME:

368-218

SITE ADDRESS: 2305 NC 87 S





DATE DRAWN: 05/14/25 ATC JOB NO: 14884053 CUSTOMER NAME: 368-218 CUSTOMER ID: SINC006548

GROUNDING DETAILS

SHEET NUMBER:

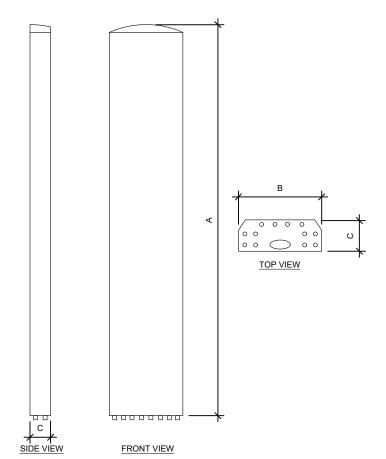
E-501

REVISION

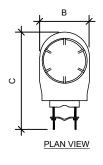


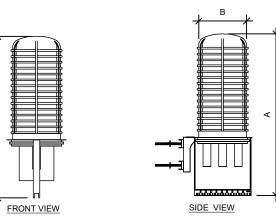
MAIN GROUND BAR DETAIL

RRU GROUNDING



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	Α	В	С	WEIGHT (LBS)
800372991	77.9"	14.9"	6.5"	74.9
AIR 6472 B77G B77M	36.3"	15.8"	7.4"	67.2

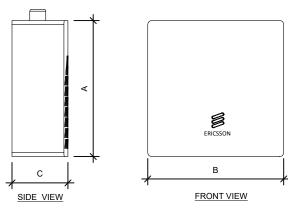




RAYCAP SPECIFICATIONS				
RAYCAP MODEL	А	В	С	WEIGHT (LBS)
DC9-48-60-24-8C-EV	25.9"	12.4"	9.7"	18.5



TOP VIEW



RRU SPECIFICATIONS				
RRU MODEL	А	В	С	WEIGHT (LBS)
RADIO 4490HP 44B5 44B12A C	20.6"	15.6"	7.0"	65.0
RADIO 4494 44B14 20B29 M01	17.5"	15.1"	5.6"	57.3

SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

EQUIPMENT SPECIFICATIONS
SCALE: N.T.S.

VERTIV™ XTE 601P ENCLOSURE, NETSURE 512 POWER SYSTEM

Description

This outdoor power solution includes a NetSure™ 512 DC Power System and an environmentally controlled Vertiv XTE 601P enclosure that offers separate individuallycooled chambers for power equipment and batteries. Temperature is monitored with an Environmental Control Unit (ECU) that adjusts thermal settings to maintain ideal conditions within each chamber, while simultaneously decreasing system power consumption and noise. All DC power-feed cables to customer equipment are surge protected at the distribution bus. The battery chamber houses 3 shelves of front-post VRLA batteries and SAFT batteries up to 180 Ah in size.

NetSure 512 DC Power System

- eSure[™] rectifiers provide high energy efficiency
- Great output power at high temperatures
- Advanced remote monitoring with NCU controller

Vertiv™ XTE Enclosure

- Separate temperature-controlled zones for power and batteries
- Door-mounted cooling system & rear cable-entry compartment

Technical Specifications

DC POWER SYSTEM FEATURES	
Nominal System Voltage	-48 VDC or +24 VDC
Control	NCU controller
RATED OUTPUT CAPACITY - N	NAXIMUM CONFIGURATION
	525 amps at -48 VDC plus redundancy 400 amps at +24 VDC plus redundancy
	Top: Wired for (16) +24 V and (13) -48 V bullet positions Bottom: (30) -48 V bullet positions
ENVIRONMENTAL	
Operating Temperature	-40 °F to 115 °F (-40 °C to 46 °C) continuous operation
Humidity	0 to 95%, non-condensing
THERMAL SOLUTIONS	
	2500 watt door-mounted heat exchanger, 2 RU available space for surge protection
Battery Chamber	Fan cooled, fresh air ventilation; holds up to (3) battery strings
EQUIPMENT	
Ground Bar	10 positions
Terminal Block	12-position Phoenix alarm block, 32-position Phoenix alarm bunching block
SAFETY	
DC Power System	UL 1801 Listed (US & Canada), NEBS Level 3
Enclosure	GR-487, UL 60950, and Seismic Zone 4 compliant



Ordering Process

Follow the steps below for each DC power system required.

- 1. Order -48VDC 2000 watt rectifiers. quantity as required, NEQ.15930 (1R482000E3).
- 2. Order -48VDC to +24VDC 1500 watt converters, quantity as required, NEQ.15929 (1C48241500).
- 3. Order load circuit breakers and GMT fuse module NEQ.15981 (549017) as required per Bullet Nose Type Circuit Breakers on page 17 and GMT Fuse Modules on page 18.

If required, for each single pole load circuit breaker ordered, order single pole 90 degree lug adapter kit

If required, for each two-pole load circuit breaker ordered, order two-pole 90 degree lug adapter kit NEQ.15982 (545404).

NEQ.15152 (545405).

If required, for each three-pole load circuit breaker ordered, order three-pole 90 degree lug adapter kit NEQ.15983 (545571).

4. Order additional temperature probes as desired. The base power plant includes (4) temperature probes.

If more than (4) temperature probes are desired, order NEQ.15984 (547490) SMTEMP Module. Each module can accommodate (8) temperature probes. A maximum of (8) SMTEMP modules can be accommodated per system.

Order temperature probes, quantity as required.

NEQ.15985 (552992), 10.3 meter length NEQ.15986 (556155), 3.3 meter length

Example: If (20) total temperature probes are desired, order (2) SMTEMP modules and (16) temperature probes.

Order temperature probe extensions if initial length is not adequate. 10 meter length. Quantity as required, NEQ.15987 (04119122).

5. If DC generator disconnect breaker is required, order DC generator input connection kit, NEQ.20070 (564898) and 400 A bullet breaker NEQ.20063 (150860).

Vertiv™ XTE 601P Ordering Information

AT&T NUMBER	VERTIV™ NUMBER	DESCRIPTION
Outdoor DC Powe	er System	
NEQ.19918*	F2016064	Vertiv XTE 601P, 512, 752 lbs.
Equipped with:	F1011032	Enclosure (72"H x 32"W x 39"D)
	582137000ZZ007	NetSure 512, -48 VDC/+24 VDC, (43) -48 V load breaker positions, (16) +24 V load breaker positions, LVBD capability
	58213700027	(1) Two row distribution cabinet
	58213700030	(4) Rectifier shelves 3 right positions can be used for -48V to +24V converters
	582137000AC	(1) (30) position -48 VDC distribution panel
	582137000DJ	(1) (13) -48 V & (16) +24 V position dist. panel
	1M830DNA559478	(1) NCU controller
	552992	(2) Temperature probes
	556155	(2) Temperature probes
	541308	(2) Alarm cables
	58213700070	(1) Extended interface board
	549017	(1) GMT fuse option board
		2500 watt door-mounted heat exchanger
		12-pair Phoenix alarm block
		32-pair Phoenix alarm bunching block
		Strikesorb DC surge protection
		(3) 100 amp DC battery disconnects
		Battery heater pads included
		Duplex AC convenience outlet
		10-position ground bar

		70 Postalon 3. cana 22.
AT&T NUMBER	VERTIV NUMBER	DESCRIPTION
Accessories		<u> </u>
NEQ.15998	F1010598	4" mounting plinth
NEQ.15930	1R482000E3	Rectifier, NetSure 512, -48 VDC, 40 A/2000 W
NEQ.15929	1C48241500	(1) Converter, high efficiency, -48 VDC to +24 VDC, 62.5 A/1500 W, 4.4 lbs.
NEQ.15984	547490	SM-TEMP, 8-input temperature module
NEQ.15985	552992	Temperature probe, 10.3 meters
NEQ.15986	556155	Temperature probe, 3.3 meters
NEQ.15987	04119122	Temp probe extension, 10 meters
NEQ.15988	552822	Temp probe sensor, 0.3 meter
NEQ.19291	1M830DNA560273	NCU controller field retrofit
NEQ.15992	MA4C5U31	IB2, Customer Interface Board
NEQ.15993	548120	EIB, Extended Interface Board
NEQ.20070	564898	DC generator disconnect breaker kit NOTE: 400 A bullet breaker is sold separately.
NEQ.20063	150860	400 A bullet breaker, 4-pole
NEQ.TBD	564354	Distribution position conversion kit for top row. All -48VDC positions.
NEQ.TBD	564997	DC generator wrap around Kit
		Bullet nose type circuit breakers - page 17
Batteries		
NEQ.12090	N/A	155 Ah GNB battery (not supplied by Vertiv; sourced through EPL)
NEQ.14983	N/A	48 V SAFT battery string, 80-94743-01, 38 X TelX 180 NiCd

(not supplied by Vertiv; sourced through EPL)

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

* 1200 watts at 65°C

Vertiv | DC Power Systems, Outdoor Enclosures & Services | AT&T Ordering Guide (RI06/19)

Vertiv | DC Power Systems, Outdoor Enclosures & Services | AT&T Ordering Guide (RI06/19)

SUPPLEMENTAL

SHEET NUMBER:

R-602



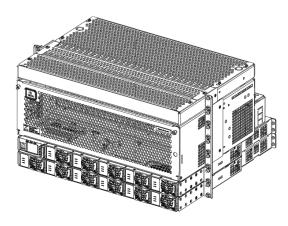
SYSTEM OVERVIEW

Description:

-48 VDC to -58 VDC @ up to 600 Amperes Converter System

The Vertiv™ NetSure™ DCS48/58-600 Converter System is a complete integrated converter system containing -48 VDC to -58 VDC converters, intelligent control, metering, monitoring, and distribution.

The converter system is designed for operation with the positive output grounded.



This system consists of the following components.

• DC Distribution Cabinet

The base system includes one (1) distribution cabinet, which provides DC distribution through fuses and/or circuit breakers. The distribution cabinet can be equipped either with a 1-row, 26-position bullet nose type circuit breaker and TPS/TLS fuseholder distribution panel or a distribution panel equipped with four (4) GJ/218 type circuit breaker positions. The distribution cabinet may be equipped with a load disconnect contactor.

A field installed only expansion distribution cabinet is available which provides DC distribution through fuses and/or circuit breakers. The expansion distribution cabinet is equipped with a 1-row, 26-position bullet nose type circuit breaker and TPS/TLS fuseholder distribution panel. The expansion distribution cabinet may be equipped with a load disconnect contactor.

Controller

Spec. No: 584641000

NCU (NetSure™ Control Unit) Controller: The NCU controller provides power system control, converter module control, metering functions, monitoring functions, local/remote alarm functions, and connections for binary inputs and programmable relay outputs. The system also accepts up to two (2) temperature probes to monitor ambient and/or battery temperature. The controller also provides data acquisition and system alarm management. The controller contains a color TFT display and keypad for local access. The controller provides an Ethernet port and comes with comprehensive webpages for local/remote access. The controller has SNMP V3 capability for remote system management. The controller supports software upgrade via its USB port. Refer to the NCU Controller Instructions (UM1M830BNA) for more information.

• Converter Module Mounting Shelf (Spec. No. 588705300)

The system contains two (2) Spec. No. 588705300 converter module mounting shelves, each of which houses the converter modules. The top converter module mounting shelf also houses the NCU

A field installed only expansion converter module mounting shelf is available. Up to two (2) expansion converter module mounting shelves can be installed in an existing system.

-48 VDC to -58 VDC Converter Modules

The system accepts 2000 watt peak, 1600 watt average converter modules to provide -58 VDC load power. Refer to the Converter Instructions (UM1C48582000P3) for more information.

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Vertiv[™] NetSure[™] DCS48/58-600 Converter System System Application Guide

General Converter Systems Specifications

See detailed specifications on page 41.

DC Output Capacity:

Color:

Family: NetSure™ Spec. No.: 584641000 Model: DCS48/58-600

DC Input Voltage: Nominal -48 VDC (-41 VDC to -58.5 VDC).

DC Output Voltage: Nominal -57 VDC, positive ground.

Output voltage is adjustable from -56.0 VDC to -58.0 VDC via the system

controller.

1C48582000P3 Converter Rating: See UM1C48582000P3

Agency Approval: UL Listed to UL/CSA 62368-1 (cULus),

Meets NEBS Level 1

600 A. maximum

Mounting Type: Nominal 23" Relay Rack or Equipment Rack Mounting

Mounting Depth: See "Overall Dimensions" on page 43. Mounting Height: See "Overall Dimensions" on page 43.

Access: Front and Rear for Installation, Expansion, and Maintenance.

Front for Operation.

Control: Microprocessor

> Faceplates: Textured Gray Other Surfaces: Bright Zinc

-40 °C to +65 °C (-40 °F to +149 °F) Environment:

Spec. No: 584641000

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SAG584641000 Revision A, January 27, 2023

PROPOSED -58V CONVERTER SHELF DETAIL

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SUPPLEMENTAL

SHEET NUMBER:

R-603

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.

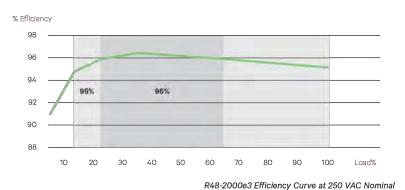
In addition to reducing power consumption and lowering operating cost, eSure $^{\text{TM}}$ high-efficiency rectifiers offer superior performance and uncompromised reliability.

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.





eSure™ Rectifier

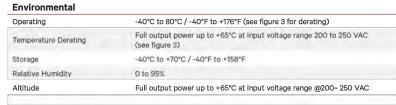


Technical Specifications

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%
Protection	Fuse for reverse connection and back feeding protection High voltage shutdown High temperature protection

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



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 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

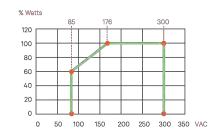


Figure 1: Output Power vs. Input Voltage and Vo > 48 V at Tamb <55°C

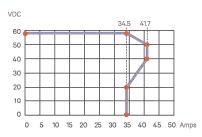


Figure 2: Output Voltage vs. Output Current at Maximum Output Power 2000 W

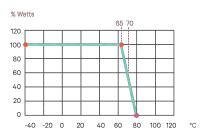


Figure 3: Output Power vs. Temperature at Uin > 200VAC

SUPPLEMENTAL

SHEET NUMBER:

R-604

Key Benefits

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.

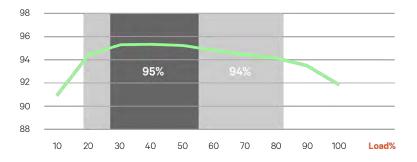
Description

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 controlled
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 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

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

Figures

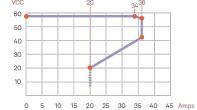


Figure 1: Output Voltage vs. Output Current at Maximum peak Power 2000 W

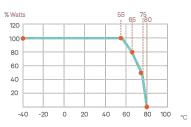


Figure 2: Output Power vs. Temperature at -41VDC≥Vin ≥ -58VDC

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C48/58-2000P3 (02/2024)

SUPPLEMENTAL

SHEET NUMBER:

R-605

PROPOSED -48/-58V DC CONVERTER DETAIL

RESERVE

POWER

The PowerSafe® SBS® Front Terminal battery further extends the technical leadership of PowerSafe SBS battery product line: not only do PowerSafe SBS Front Terminal monoblocs retain the benefits typically associated with Thin Plate Pure Lead (TPPL) Technology such as long life, high energy density, superior shelf life, etc., they also deliver exceptional cyclic performance in both float and fast charge applications, even in the hottest and harshest operating environments.

Where conventional Valve Regulated Lead Acid (VRLA)/Absorbed Glass Mat (AGM) batteries struggle to cope with harsh conditions and frequent power outages, cutting edge (TPPL) technology makes PowerSafe 12V batteries the perfect solution for the challenging operating conditions of today's telecommunication networks.

PowerSafe SBS batteries are designed to high quality standards and a unique manufacturing methods means superior energy and power, high performance and proven reliability, there is no substitute to PowerSafe SBS Front Terminal batteries.

Features and Benefits

- Capacity range 31-190Ah
- 12V monobloc configurations
- Multiple string configurations available
- Two year shelf life
- SR4228 compliant
- Proven long service life
- High energy density and cycling capability

Construction

- Robust positive plates are designed to prolong service
- Separators are low resistance microporous (AGM). The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Terminals are stainless steel front access with top access copper alloy insert. Top and front access terminations provide maximum conductivity
- Self-regulating one way pressure relief valves prevents ingress of atmospheric oxygen

Installation and Operation

- Space efficient footprint
- VRLA design, reduces maintenance requirements
- · Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- Increased active material surface area yields great cycling capability
- Operating temperature: -40°F (-40°C) to 122°F (50°C) Recommended temperature: 68°F (20°C) to 86°F (30°C)

Standards

- Meets criteria for "non-spillable" batteries
- Complies with Telcordia® SR-4228, Network Equipment Building System (NEBS™) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004

General Specifications

Cell Type	Nominal Capacity (Ah)		Nominal Dimensions						Weight - Volumes		
	10 hr rate to 1.80Vpc @20°C	8 hr rate to 1.75Vpc @77°F	Le in	ngth mm	W in	idth mm	He in	ight mm	Unpa lbs	cked kg	
SBS B8F	31	31	11.9	303	3.8	97	6.3	159	22.7	10.3	
SBS B10F	38	38	11.9	303	3.8	97	7.2	184	28.2	12.8	
SBS B14F	62	62	11.9	303	3.8	97	10.4	264	42.0	19.1	
SBS C11F	92	91	16.4	417	4.1	105	10.1	256	61.6	28.0	
SBS 100F	100	100	15.6	395	4.3	108	11.3	287	71.9	32.6	
SBS 112F	112	112	22.1	561	4.9	125	9.0	228	90.4	41.1	
SBS 145F	145	145	17.9	455	6.8	173	9.4	238	105.0	47.7	
SBS 165F	165	165	17.9	455	6.8	173	10.8	273	117.4	53.3	
SBS 170F	170	170	22.1	561	4.9	125	11.1	283	115.7	52.5	
SBS 190F	190	190	22.1	561	4.9	125	12.4	316	132.3	60.0	









SBS 145F - 190F



connect@alpinepowersystems.com £ 877-993-8855

Battery Services for Backup Power

- · Battery Installation
- · Capacity and Acceptance
- · Preventative Maintenance

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Publication No: US-SBSF-RS-004 - January 2014

PROPOSED POWERSAFE SBS 170F BATTERY DETAIL

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SUPPLEMENTAL

SHEET NUMBER:

R-606

DATA SHEET

DC Surge Protection Solutions for Base Station - Outdoor Rated DC12-48-60-0-25E

Overvoltage Protection and Power Management Junction Box

Base Protection - Outdoor

The DC12-48-60-0-25E is designed to be the most robust lightning and power surge protector available for distributed node B or e-node B applications. The flexible design provides electrical protection/cable management at the rooftop or base of sites. The solution employs the patented Strikesorb® 30-V1-HV surge protective device (SPD), capable of providing 60kA (8/20 µs) of surge capacity for up to 12 -48V DC circuits.





- Provides protection for 12 individual -48V DC circuits at the base of sites
- Surge protection of 60kA 8/20 μs
- Maximum impulse current 5kA 10/350 µs
- Simplifies inter-connectivity and cable management for DC conductors
- UL 1449 4th Edition Type 2 protective device
- IEC 61643-11 Class I protection for DC applications
- Form C relay contacts included, allowing remote monitoring of suppressor status
- Patent pending

- Strikesorb modules are fully recognized to UL 1449 4th Edition, and IEC 61643-11 Safety Standards, meeting all intermediate and high current fault requirements to facilitate use in original equipment manufacturers (OEM) applications
- Strikesorb offers unique maintenance-free protection against direct lightning currents
- NEMA 4 enclosure allows for indoor or outdoor installation

Cable Gland kit includ

Strikesorb is a registered trademark of Raycap © 2015 Raycap All rights reserved. G02-00-267 150115

Strikesorb[®]

Voltage Protection Rating (VPR)

SPECIFICATIONS DC Surge Protection Solutions for Base Station - Outdoor Rated DC12-48-60-0-25E

Overvoltage Protection and Power Management Junction Box

Electrical Model Number DC12-48-60-0-25E CEQ / ANT Number CEQ. 12659 Number of Circuits Protected Surge Protective Device (SPD) Type per UL 1449 4th Edition Surge Protection Class as per IEC 61643-11 Class I Nominal Operating DC Voltage [Un] 48 V Nominal Discharge Current $[I_n]$ per UL 1449 3rd Edition 20 kA 8/20 μs Maximum Surge Current [I_{max}] per IEC 61643-11 60 kA 8/20 μs Maximum Impulse (Lightning) Current $[I_{imp}]$ per IEC 61643-11 5kA 10/350 µs Maximum Continuous Operating DC Voltage [Uc] (MCOV) 75 VDC Voltage Protection Level [U_n] per IEC 61643-11

300 V

700 V

Suppression Technology		MOV
Strikesorb Module Type 2CA (UL 1449 4th edition)		30-V1-HV
Protection Modes:	Normal Mode	-48V to Return
	Common Mode	Return to Ground

echanical		
Connection Terminal (Alarm) Method		Form C Hardwired, #22 to #12 AWG [0.34 to 4 mm ²]
Connection Terminal (Suppression) Method		Compression lug 2 hole, #10, 5/8 pitch, 12-4 AWG [3.31-21 mm²]
Connection Terminal (Terminal Block) Method	Copper	#14 to #2 AWG [2.5 to 35 mm ²]
	Aluminum	#12 to #2 AWG [4 to 35 mm²]
Environmental Ingress Protection (IP) Rating		IP 68
Operating Temperature (°C)		-40° C to +100° C
Storage Temperature (°C)		-70° C to +80° C
Cold Temperature Cycling IEC 61300-2-22		-30° C to +60° C 200 hrs @5 PSI
Resistance to Aggressive Materials CEI IEC 61073-2		Including Acids and Bases
UV Protection ISO 4892-2 Method A		Xenon-Arc 2160 hrs
Enclosure Type		Outdoor - NEMA 4 Rated
Enclosure Dimensions (LxWxH)		18.17"×20.06"×6.37" [461.39×509.52×161.71 mm]
Weight		56.3 lbs [25.54 kg]
Combined Wind Loading	Sustained	135.3 lbs [602 N]
	Gust	228 6 lbs [1016 N]

Optional Product Configurations	
Conduit Fittings	3- 2" Conduit Fittings, 2- 21/2" Conduit Fittings, 1- 1" Conduit Fitting
Cable Glands (kit included)	3- NPT 1" Cable Glands, 2- M75 Cable Glands, 3- M63 Cable Glands
Standards Compliance & Certifications	
Ctribagarh madulas are compliant to the following Curs	Destantian Desiran Otan deside

UL 1449 4th Edition: 2011, IEC 61643-11: 2011, EN 61643-11: 2012, IEEE C62.11: 2005, IEEE C62.41: 2002, IEEE C62.45: 2002, NEMA-LS-1

Certifications: UL, VDE, CE





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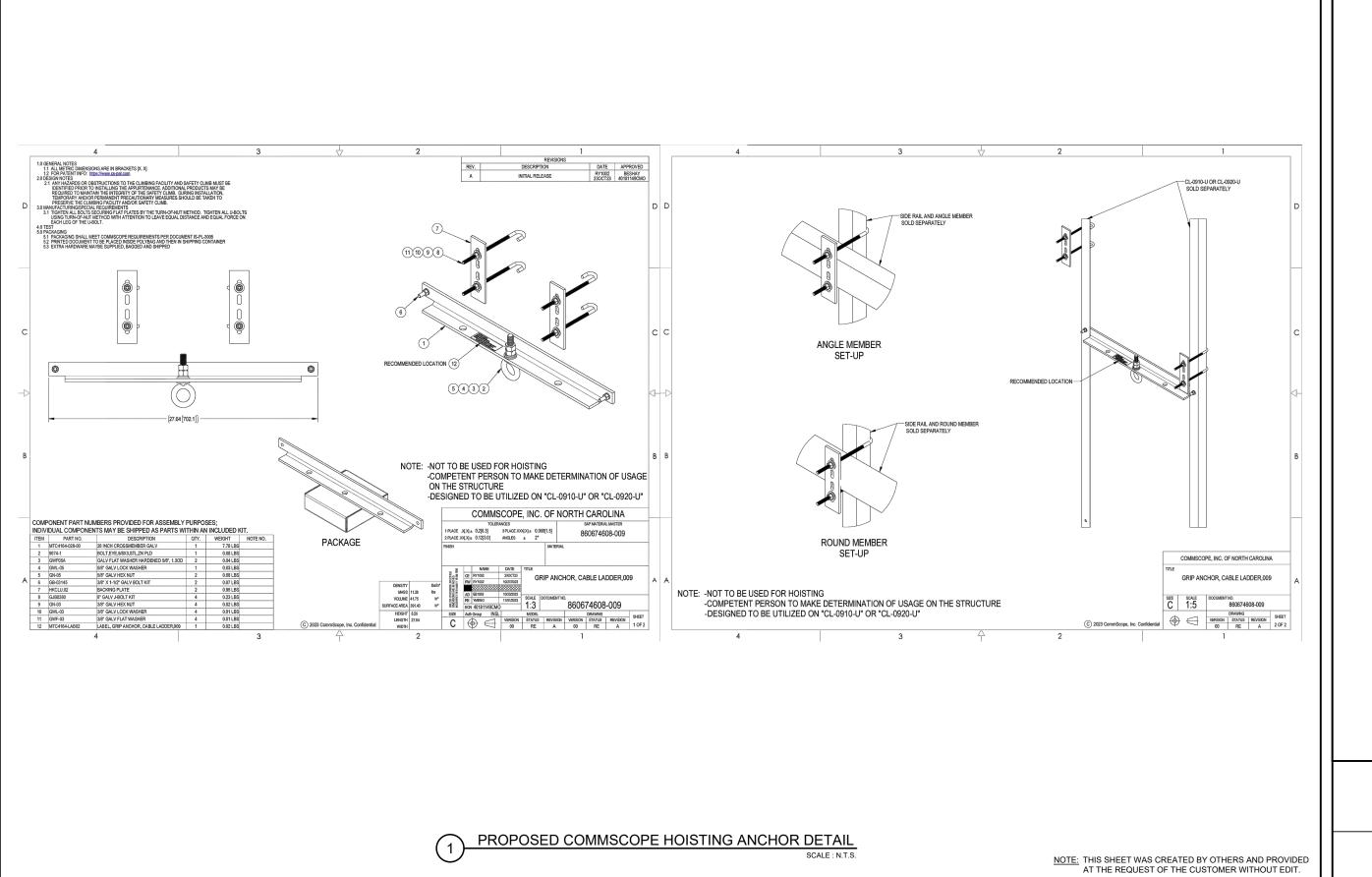
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SUPPLEMENTAL

SHEET NUMBER:

R-607

PROPOSED OUTDOOR DC12-48-60-0-25E-SS DETAIL



SUPPLEMENTAL

SHEET NUMBER:

R-608

08 |

LUHG-38



Lace-up Hoisting Grip for HELIAX® 0.40-0.56 in (10.2-14.2 mm) cable including all RFFT discrete trunk series cables

Product Classification

Product Type Hoisting grip **HELIAX® Product Brand**

Ordering Note CommScope® standard product (Global)

General Specifications

Attachment Spacing Intervals 60.96 m | 200 ft **Hoisting Grip Type** Lace-up hoisting grip Installation Tool Required, not included **Support Clamp** Not included

Tool Type Hoisting grip

Dimensions

Grip Length, minimum 152.4 mm | 6 in Leader Length, minimum 165.1 mm | 6.5 in Compatible Diameter, maximum 14.2 mm | 0.559 in Compatible Diameter, minimum 10.2 mm | 0.402 in

Nominal Size 3/8 in

Electrical Specifications

Return Loss Effect, maximum 0.1 dB DTF Effect, maximum 0.1 dB

Material Specifications

Material Type Stainless steel

Mechanical Specifications

Pull Load Capacity 90.718 kg | 200 lb

LUHG-38

Packaging and Weights

Height, packed 55.88 mm | 2.2 in Width, packed 266.7 mm | 10.5 in Length, packed 266.7 mm | 10.5 in

Packaging quantity

0.04 kg | 0.088 lb Weight, gross

Regulatory Compliance/Certifications

Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



Page 2 of 2

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COMMSC PE®

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SUPPLEMENTAL

SHEET NUMBER:

R-609

PROPOSED COMMSCOPE CABLE HOISTING GRIP DETAIL SCALE : N.T.S.

29958



Lace-up Hoisting Grip for HELIAX® 0.75-0.99 in (19-25.1 mm) cables and elliptical waveguide 85, 90, 127A, 132-144, PWRT-606-S

Product Classification

Product Type Hoisting grip
Product Brand HELIAX®

Ordering Note CommScope® non-standard product

General Specifications

Attachment Spacing Intervals60.96 m | 200 ftHoisting Grip TypeLace-up hoisting gripSupport ClampNot included

Tool Type Hoisting grip

Dimensions

Grip Length, minimum508 mm | 20 inLeader Length, minimum152.4 mm | 6 inCompatible Diameter, maximum25.1 mm | 0.988 inCompatible Diameter, minimum19 mm | 0.748 in

Nominal Size 5/8 in

Electrical Specifications

 Return Loss Effect, maximum
 0.1 dB

 DTF Effect, maximum
 0.1 dB

Material Specifications

Material Type Stainless steel

Mechanical Specifications

Pull Load Capacity 226.796 kg | 500 lb

29958

Packaging and Weights

 Height, packed
 55.88 mm | 2.2 in

 Width, packed
 236.22 mm | 9.3 in

 Length, packed
 236.22 mm | 9.3 in

Packaging quantity

Weight, gross 0.3 kg | 0.661 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



Page 2 of 2

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SCALE: N.T.S.



SUPPLEMENTAL

SHEET NUMBER:

R-610

1

PROPOSED COMMSCOPE CABLE HOISTING GRIP DETAIL

SXK 125 5394/2

Universal B2B Bracket CC110

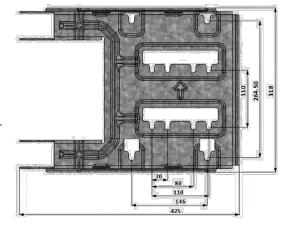
Universal B2B Bracket CC110 is designed for installation of back to back ERS on any supporting structure i.e. pole, mast, tower leg etc. It is Low PIM bracket. When installed properly, it meets the requirements of installation in High Risk PIM Zones. Static and dynamic testing was conducted as per IEC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

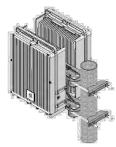


Ericsson | SXK 125 5394/2 May 2021 2

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 $146 \text{mm} \times 264.5 \text{ mm}$ (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 50kg on each side.







		The state of the s		RED S	
Product	Universal B2B I	Bracket CC110			
Product number	SXK 125 5394/	SXK 125 5394/2			
Mounting range	Profile	Minimum	Maximum		
	Circular tube	Ø25 mm (1 inch)	Ø120 mm (4.7 inch)		
	60º Angle	35 mm Oper (1.4 inch)	` ,	ning	
	90º Angle	35 x 35 mm (1.4 X 1.4 in	112 x 112 mr		
	Square tube	35 x 35 mm (1.4 X 1.4 in	80 x 80 mm	•	
Mechanical specification		(=::::=::::	, (
	Brackets	s High Tensile Steel, Galvanized			
	Fasteners	Grade 8.8 Galvanized & A4			
	Bush Separators Composite material (PBT+PET)-GF30		GF30		
Recommended tools					
	M8 ISO, 13mm	M8 ISO, 13mm torque wrench (10-22 Nm)			
	M10 ISO, 16mm & 17mm torque wrench (15-25 Nm)				
Performance					
	Maximum wind speed 67 m/s (240 km/h, 149 mph)		h, 149 mph)		
	Survival wind speed		90 m/s (324 Km)	90 m/s (324 Km/h, 201 mph)	
	Maximum equipment weight		2 x 50 Kg (2 x 110.2 lbs)		
Packaging dimension	Length Wid	th Height	Package Weight	Product Weight	
Universal B2B Bracket CC110	480 mm 360	mm 80 mm	10.4 Kg	10.0 Kg	
		2 in) (3.2 in)		(22.0 lbs)	

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SUPPLEMENTAL

SHEET NUMBER:

R-611

Pxxx: Bulk Pipe



art#	Length	OD x Length (in)	
Schedule 40			
P260	5'-0"	2-3/8" x 60"	
P263	5'-3"	2-3/8" x 63"	
P272	6'-0"	2-3/8" x 72"	
P284	7'-0"	2-3/8" x 84"	
P296	8'-0"	2-3/8" x 96"	
P2108	9'-0"	2-3/8" x 108"	
P2120	10'-0"	2-3/8" x 120"	
2126	10'-6"	2-3/8" x 126"	
P2150	12'-6"	2-3/8" x 150"	
P2174	14'-6"	2-3/8" x 174"	
P2252	21'-0"	2-3/8" x 252"	
P3072	6'-0"	2-7/8" x 72"	
P3084	7'-0"	2-7/8" x 84"	
23096	8'-0"	2-7/8" x 96"	
P30108	9'-0"	2-7/8" x 108"	
P30120	10'-0"	2-7/8" x 120"	
P30126	10'-6"	2-7/8" x 126"	
P30150	12'-6"	2-7/8" x 150"	
P30174	14'-6"	2-7/8" x 174"	
230252	21'-0"	2-7/8" x 252"	
P360	5'-0"	3-1/2" x 60"	
P372	6'-0"	3-1/2" x 72"	
P384	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"	
23174	14'-6"	3-1/2" x 174"	
P3216	18'-0"	3-1/2" x 216"	
P3252	21'-0"	3-1/2" x 252"	
P472	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 BSchedule 40 or Schedule 80

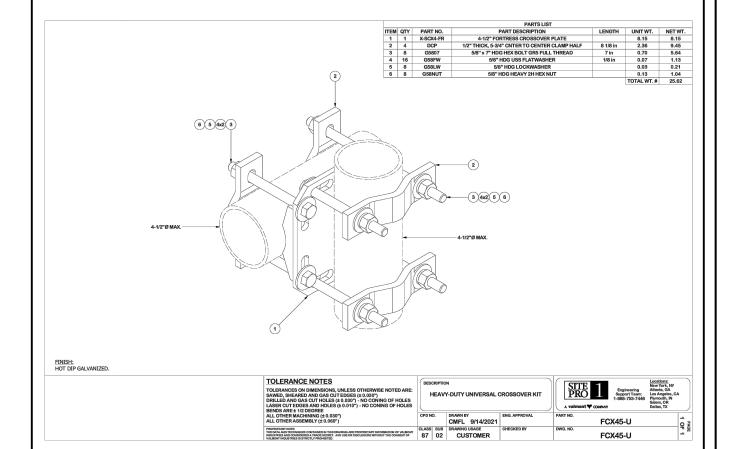
Design Criteria:

- 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"

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PROPOSED PIPE MOUNT DETAIL



PROPOSED CROSSOVER PLATE KIT DETAIL

 ${\color{red} \underline{\text{NOTE:}}} \ \, {\color{blue} \text{THIS SHEET WAS CREATED BY OTHERS AND PROVIDED}} \\ \, {\color{blue} \text{AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.}} \\$

SUPPLEMENTAL

SHEET NUMBER:

R-612

Pxxx: Bulk Pipe



Part#	Length	OD x Length (in)			
Schedule 40					
P260	5'-0"	2-3/8" x 60"			
P263	5'-3"	2-3/8" x 63"			
P272	6'-0"	2-3/8" x 72"			
P284	7'-0"	2-3/8" x 84"			
P296	8'-0"	2-3/8" x 96"			
P2108	9'-0"	2-3/8" x 108"			
P2120	10'-0"	2-3/8" x 120"			
P2126	10'-6"	2-3/8" x 126"			
P2150	12'-6"	2-3/8" x 150"			
P2174	14'-6"	2-3/8" x 174"			
P2252	21'-0"	2-3/8" x 252"			
P3072	6'-0"	2-7/8" x 72"			
P3084	7'-0"	2-7/8" x 84"			
P3096	8'-0"	2-7/8" x 96"			
P30108	9'-0"	2-7/8" x 108"			
P30120	10'-0"	2-7/8" x 120"			
P30126	10'-6"	2-7/8" x 126"			
P30150	12'-6"	2-7/8" x 150"			
P30174	14'-6"	2-7/8" x 174"			
P30252	21'-0"	2-7/8" x 252"			
P360	5'-0"	3-1/2" x 60"			
P372	6′-0″	3-1/2" x 72"			
P384	7'-0"	3-1/2" x 84"			
P396	8'-0"	3-1/2" x 96"			
P3150	12'-6"	3-1/2" x 150"			
P3160	13'-4"	3-1/2" x 160"			
P3174	14'-6"	3-1/2" x 174"			
P3216	18'-0"	3-1/2" x 216"			
P3252	21'-0"	3-1/2" x 252"			
P472	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 BSchedule 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"		

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PROPOSED PIPE MOUNT DETAIL

SUPPLEMENTAL

SHEET NUMBER:

R-613

 $\begin{tabular}{lll} {\bf NOTE:} & {\tt THIS SHEET WAS CREATED BY OTHERS AND PROVIDED}\\ & {\tt AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.} \end{tabular}$



This report was prepared for American Tower Corporation by



Antenna Mount Analysis Report

Mount Type : (1) 15.0 ft & (2) 13.0 ft Sector Frame

ATC Asset Name : SPOUT SPRINGS NC1

ATC Asset Number : 21274

Engineering Number : 14884053_C8_01

ETS, PLLC Job Number : 25134852.STR.0164

Mount Elevation : 300.0 ft

Carrier : AT&T Mobility

Carrier Site Name : 368-218

Carrier Site Number : WSVWN0055007

Site Location : 2305 NC 87 South

Sanford, NC 27332

35.27725912, -79.07085941

Engineered Tower Solutions, PLLC - 3227 Wellington Ct. Raleigh, NC 27615 - 919.782.2710 Office - www.engineeredtowersolutions.com

: Harnett County

Date : April 14, 2025

: 48% Max Usage

Result : Contingent Pass

Prepared By: Reviewed By: J. Scott Hilgoe, PE Bach Tran, El

Structural Engineering Manager Structural Engineer



Eng. Number 14884053_C8_01 April 14, 2025 Page 3

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 300.0 ft.

Supporting Documents

Mount Analysis Mastec Engineering Project #16807-MNO1, dated December 28, 2018	
Scoping Form FA # 10017390 dated January 9, 2025	
Photos Site photos from 2020	

Analysis

This antenna mount was analyzed using RISA-3D v22 analysis software.

Basic Wind Speed:	117 mph (3-Second Gust, Vult)
Basic Wind Speed w/ Ice: 37 mph (3-Second Gust) w/ 0.63" radial ice concurrent	
Codes:	ANSI/TIA-222-I
Structure Class:	
Exposure Category:	В
Topographic Procedure:	Method 1
Topographic Feature:	Flat
Crest Height:	Oft
Crest Length:	Oft
Spectral Response:	$S_{ms} = 0.270, S_{m1} = 0.160$
Site Class:	D
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

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

Conclusion

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 (6) Site Pro 1 #P2120, 2.0 SCH 40 x 10'-0", A53 Gr.B (ANT.55993, or approved equivalent) mount pipe to be located 12 +/- 3 inches from the tower connection on left and right mount arm on all sectors. Connect with Site Pro 1 FCX45-U (ANT.56006, or approved equivalent) crossover kits.
- Install (3) Site Pro 1 #P30120, 2.5 SCH 40 x 10'-0", A53 Gr.B (ANT.16008 or approved equivalent) mount pipe on position 2. Connect to horizontal pipe with Site Pro 1 FCX45-U (ANT.56006, or approved equivalent) crossover kits.
- · Relocate remaining mount pipes to match antenna spacing requirements per 2024 AT&T Macro Build

The rough cost estimate, pre-MOD design, is estimated to be ≤10k. No structural failures were addressed with the noted contingencies. Contingencies address Carrier's antenna spacing requirements.

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MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT

ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

R-614

SUPPLEMENTAL