

AT&T MOBILITY

ANTENNA AMENDMENT PLAN

# **AMERICAN TOWER®**

ATC SITE NAME: DUNN NC 3 ATC SITE NUMBER: 306567

AT&T MOBILITY SITE ID: SINC007003

AT&T MOBILITY FA LOCATION CODE: 10040311

AT&T MOBILITY SITE NAME: 368-415

AT&T MOBILITY USID: 85342

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845

AT&T MOBILITY IWM JOB NUMBER(S): **WSVWN0055012**, WSVWN0056513, WSVWN0057376, WSVWN0055619, WSVWN0055935, WSVWN0056055, WSVWN0056521. AT&T MOBILITY PACE JOB NUMBER(S): **MRVWN043393**, MRVWN042850, MRVWN043051, MRVWN042985, MRVWN042686, MRVWN042701, MRVWN043194.



**LOCATION MAP** 



Electrical only

COMPLIANCE CODE PROJECT SUMMARY		PROJECT DESCRIPTION		SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED N ACCORDANCE WITH THE CURRENT EDITIONS OF THE		DDRESS:	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO	2420 JONESBORO RD		TOWER WORK: REMOVE (6) ANTENNA(S), (3) RRU(s), (6) TMA(s), (1) 2 1/4" COAX	G-001	TITLE SHEET	1	04/24/25	SRZ
BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO	•	: 28334-8845 : HARNETT	CABLE(S), AND (1) 3/8" (0.38"- 9.5mm) RET CONTROL CABLE(S).	G-002	GENERAL NOTES	1	04/24/25	SRZ
THESE CODES.  1. 2018 NORTH CAROLINA BUILDING CODE (NCBC)		COORDINATES:	INSTALL (1) CABLE HOISTING ANCHOR(S), (2) CABLE HOISTING GRIP(S), (9) ANTENNA(S), (3) RRU(s), (1) 0.96" (24.3mm) 6 AWG 6 DC	G-003 - G-007	APPENDIX B	1	04/24/25	SRZ
2. 2020 NATIONAL ELECTRIC CODE (NEC) WITH NC		E: 35.33136	POWER TRUNK(S), (1) 0.41" (10.3mm) FIBER TRUNK(S), AND MOUNT MODIFICATION(S).	C-001	OVERALL SITE PLAN	1	04/24/25	SRZ
AMENDMENTS	LONGITUD	E: -78.55248	EXISTING (9) RRU(s), (3) SQUID(S), (2) 0.39" (10mm) FIBER TRUNK(S),			1		
LOCAL BUILDING CODE     CITY/COUNTY ORDINANCES	GROUND ELEV	ATION: 247' AMSL	(3) 0.76" (19.2mm) 8 AWG 6 POWER TRUNK(S), (2) 1.13" (28.7mm) 4 AWG 6 POWER TRUNK(S), AND (11) 2 1/4" COAX CABLE(S) TO REMAIN.	C-101	DETAILED SITE PLAN	1	04/24/25	SRZ
	ZONING IN	FORMATION:	GROUND WORK:	C-102	DETAILED EQUIPMENT LAYOUT	1	04/24/25	SRZ
	JURISDICTION: H	HARNETT COUNTY	REMOVE (1) ALPHA TE45V2 OUTDOOR POWER PLANT(S) AND	C-201	TOWER ELEVATION	1	04/24/25	SRZ
	PARCEL ID: 1	PARCEL ID: 1537-35-4883.000 INSTALL (1) VERTIV 512 POWER PLANT(S), (1) -5  KIT(S), (6) VERTIV -58V CONVERTER(S), (10) VEF	(1) DC12-RM(s).  INSTALL (1) VERTIV 512 ROWER DLANT(S) (1) 58V CONVERSION	C-401	ANTENNA INSTALLATION	1	04/24/25	SRZ
	PRO IF		KIT(S), (6) VERTIV -58V CONVERTER(S), (10) VERTIV -48V RECTIFIER(S), (4) POWERSAFE SBS 170F BATTERY(IES), (1) +27V	C-402	ANTENNA SCHEDULE	1	04/24/25	SRZ
		BULLET CONVERTER(S), (1) 6672 BBU(s), (1) DC12-48-60-0-25E(S), (6) 50A DC BREAKER(S), (6) 30A DC BREAKER(S), AND (6) 25A DC	C-501	CONSTRUCTION DETAILS	1	04/24/25	SRZ	
	TOWER OWNER:	BREAKER	BREAKER(S)	E-101	ELECTRICAL DETAILS	1	04/24/25	SRZ
	AMERICAN TOWER  10 PRESIDENTIAL WAY	AT&T MOBILITY		E-102	ELECTRICAL DETAILS	1	04/24/25	SRZ
UTILITY COMPANIES	WOBURN, MA 01801		E-103	ELECTRICAL DETAILS	1	04/24/25	SRZ	
	ENGINEER:	PROPERTY OWNER:		E-104	GROUNDING PLAN	1	04/24/25	SRZ
POWER COMPANY: DUKE ENERGY PROGRESS PHONE: (800) 777-9898	TEP ENGINEERING, PLLC 326 TRYON RD	AMERICAN TOWER ASSER SUB LLC	PROJECT NOTES	E-501	GROUNDING DETAILS	1	04/24/25	SRZ
TELEPHONE COMPANY: CENTURYLINK	RALEIGH, NC 27603 PO BOX 723597 ATLANTA. GA 31139		THE FACILITY IS UNMANNED.     A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A	R-601 - R-612	SUPPLEMENTAL			
PHONE: (800) 244-1111			MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.  3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.  4. NO SANITARY SEWER. POTABLE WATER OR TRASH DISPOSAL		MOUNT REINFORCEMENT DRAWINGS			
	PROJECT LOCAT	TION DIRECTIONS						
Know what's below. Call before you dig.		.LOW SR 1709 TO TOWER. AT 1709 AND 1808.	IS REQUIRED.  5. HANDICAP ACCESS IS NOT REQUIRED.  6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).					



\_ANS PREPARED BY:



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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. IC., O ELEWARE LUMITED LIABILITY COMPANY, TEP ENIGINEERING, LLC, A NORTH AROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING, IC., 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
$\mathbb{A}_{-}$	PRELIMINARY	OSV	04/11/25
△_	100% CONSTRUCTION	OSV	04/18/25
<u> </u>	100% CONSTRUCTION	SRZ	04/24/25
$\wedge_{-}$			
$\overline{\wedge}$	-		

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845



SEAL:

04/24/



1		DATE DRAWN:	04/24/25
		ATC JOB NO:	14883118
		CUSTOMER NAME:	368-415
ı	l	CUSTOMER ID:	SINC007003
4			

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
- 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

- 22 PRIOR TO SUBMISSION OF RID. 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
- 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
- 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, 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

# 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.





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REV.	DESCRIPTION	BY	DATE
$\mathbb{A}_{-}$	PRELIMINARY	<u>osv</u>	04/11/25
$\triangle_{-}$	100% CONSTRUCTION	_osv.	04/18/25
$\Lambda_{-}$	100% CONSTRUCTION	SRZ	04/24/25
$\wedge_{-}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845

TEP Engineering, PLLC WITH CAROLLIN TH CARO ON C. BRAY C. BRANNI



DATE DRAWN: 04/24/25 ATC JOB NO: 14883118 CUSTOMER NAME: 368-415 CUSTOMER ID: SINC007003

**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)

Name of Project:	DUNN NC 3					
Address: 2420 JONES					Zip Code 28334-8845	
	ed Agent: AARON DIAL	Phone # ( 919	) 466 - 5383		E-Mail AaronDial@AmericanTower.c	
Owned By:		ty/County	Private		State	
Code Enforcement		ty	County HA	DNETT	State	
Code Emorcemen	in Jurisaiction Ch	.y	County HA	KNEII	State	
CONTACT:						
DESIGNER	FIRM	NAME	LICENSE#	TELEPHO	ONE # E-MAIL	
Architectural				()		
Civil	TEP ENGINEERING, PLLC	Scott C. Brantley	048226	(919)661	sbrantley@tepgroup.net	
Electrical Fire Alarm						
Plumbing						
Mechanical						
	ipe					
Structural				()		
	>5' High			()		
Other	nclude firms and individu				vian dagionana ata )	
(Other should I	merude firms and individu	ais such as truss, j	precast, pre-engin	eerea, miel	for 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   Level III     Historic Property   Change of Use  CONSTRUCTED: (date)   CURRENT OCCUPANCY(S) (Ch. 3):     RENOVATED: (date)   PROPOSED OCCUPANCY(S) (Ch. 3):						
OCCUPANCY (	OCCUPANCY CATEGORY (Table 1604.5): Current:   I II III III IV					
		Proposed:	]1	II LIV		
BASIC BUILDI Construction Ty (check all that ap Sprinklers: Standpipes: Fire District: Special Inspection	pe: 🔲 I-A	s I III Flood Hazard	□ III □ We		☐ V-A ☐ V-B ☐ NFPA 13D	
procedures and requirements.)						

		<b>Gross Building Area Table</b>	
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 <sup>rd</sup> Floor	N/A		
2 <sup>nd</sup> Floor	N/A		
Mezzanine	N/A		
1st Floor	238 SQ FT EQUIPMENT	PAD	
Basement	N/A		
TOTAL	238 SQ FT EQUIPMENT	PAD	
		ALLOWABLE AREA	
Primary Occupa	ancy Classification(s): $\underline{S}$	Select one Select one Select o	one Select one Select one
Assembly	☐ A-1 ☐ A-2 ☐	A-3	
Business			
Educational			
Factory	F-1 Moderate F	G-2 Low	
Hazardous	H-1 Detonate	H-2 Deflagrate 🔲 H-3 Combus	st 🗌 H-4 Health 🔲 H-5 HPM
Institutional	I-1 Condition 1		
	☐ I-2 Condition ☐ 1	$\square$ 2	
	I-3 Condition 1	$\square$ 2 $\square$ 3 $\square$ 4 [	5
Mercantile	$\overline{\Box}$		
Residential	$\square$ R-1 $\square$ R-2 $\square$	R-3	
Storage		S-2 Low High-piled	
2101450		Open Enclosed Repair	r Garage
Hillity and N	Aiscellaneous	open 🗆 znerosea 🗀 reepan	Curuge
-	pancy Classification(s):	N/A	
Incidental Uses			
	`	ctions): N/A	
Special Provisio	ns: (Chapter 5 – List C	ode Sections): N/A	
Mixed Occupan	cy: No Y	es Separation: Hr	Exception:
☐ Non-	-Separated Use (508.3) -	applying the height and area	tion for the building shall be determined by tions for each of the applicable the most restrictive type of to the entire building.
☐ Sepa	rated Use (508.4) - See	below for area calcul	y, the area of the occupancy shall
		ich that the sum o	ctual floor area of each use divided by nall not exceed 1.
	al Area of Occupancy A le Area of Occupancy A	construction, so determine that the sum of the construction is below for area calculated that the sum of the construction is the construction in the construction in the construction is constructed by the construction is constr	$\frac{\text{pancy } B}{\text{upancy } B} \leq 1$
		+ 40	+ = <u>≤ 1.00</u>



LANS PREPARED BY:



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DATE
4/11/2
4/18/2
4/24/2

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The state of the state of



DATE DRAWN:	04/24/25
ATC JOB NO:	14883118
CUSTOMER NAME:	368-415
CUSTOMER ID:	SINC007003

APPENDIX B

SHEET NUMBER:

G-003

)3 |

STORY	DESCRIPTION AND	(A)	(B)	(c)	(D)
NO.	USE	BLDG AREA PER	TABLE 5	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)		INCREASE <sup>1,5</sup>	STORY OR UNLIMITED <sup>2,3</sup>
		, ,		(A)	
			//		
				•	
				/	
ntaga aras	a increases from Sect	story (ACTUAL)	<b>\Q</b>		
	neter which fronts a p	ubl	having	20 feet minimum width	= (F)
	Building Perimeter		(P)	20 feet minimum width	(r)
	(F/P) =		(1)		
d. $W = 1$	Minimum width of pu	ublic w	(W)		
	ent of frontage increase	ione wa	("")		
	ea applicable under co			(/0)	
				x D (maximum3 stories	s) (506.2)
				406.5.4. The maxim	
	ers must comply with	Table 412 3 1			nam area or an traine
	rease is based on the	insprinklered area	value in		
omuge mei	cuse is oused on the	insprimitiored area	varac iy		
		ALLOW			
		ALLOY	(1)		
			value in	SHOWN ON PLANS	CODE REFERENCE
	' 1 . ' D . (D 11 50 )		<b>&amp;</b> //-	ono na on a Entro	CODE ICH EKENTOE
uilding Hei	ight in Feet (Table 504.3	5)	· 🍫 🏸		
uilding Hei	ight in Stories (Table 50	4.4)	`'//		

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		RATING	DETAIL#	DESIGN#	SHEET # FOR	SHEET #
	SEPARATION	REQ'D	PROVID	AND	FOR	RATED	FOR
	DISTANCE		(w/	T#	RATED	PENETRATION	RATED
	(FEET)		REV	(C)	ASSEMBLY		JOINTS
Structural Frame,				4			
including columns, girders,			Q. Q.	•//			
trusses		<del>  /</del> // ·	PROVIDE (W/REP	7			
Bearing Walls		<b>/</b> //	· 80//				
Exterior		_	<b>&gt;</b> '//				
North		\( \sigma^{\chi}	<b>\</b> '//				
East		30	//				
West							
South				~			
Interior		ļ ,	_//				
Nonbearing Walls and Partitions			MAJILD				
Exterior walls				<b>⋄</b>			
North				<b>1</b>			
East			Q. 4/	•//			
West		L// ·	41.11	7			
South		//	· 80//				
Interior walls and partitions		_	<b>\</b>				
Floor Construction		\( \sigma^{\chi}	<b>\</b> '//				
Including supporting beams		30					
and joists			1				
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	ion						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

<sup>\*</sup> Indicate section number permitting reduction

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l	REV.	DESCRIPTION	BY	DATE
l	A.	PRELIMINARY	OSV	04/11/25
l	Δ.	100% CONSTRUCTION	OSV.	04/18/25
l	1	100% CONSTRUCTION	SRZ	04/24/25
l	$\triangle$			
l	$\overline{\wedge}$			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845





DATE DRAWN:	04/24/25
ATC JOB NO:	14883118
CUSTOMER NAME:	368-415
CUSTOMER ID:	SINC007003

APPENDIX B

SHEET NUMBER:

G-004

REVISION:

2018 NC Administrative Code and Policies

	PERCENTAGE OF	WALL O	NG CALCUL	ATIONS
SEPARATION DISTANCE T) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	MAJILDIN	G FAREA	ACTUAL SHOWN ON PLANS (%)
	LIFE SA NOT	TEM REQUI	REMENTS	
rgency Lighting: Signs: Alarm: ke Detection Systems: c Hardware:	☐ No ☐ Yes ☐ No ☐ Yes		_	
fety Plan Sheet #	LIFE SAFETY PLA	N REQUIREN	MENTS	
Assumed and real propertication wall opening are Occupancy Use for each a Occupant loads for each a Exit access travel distance Common path of travel distance Dead end lengths (1020.4 Clear exit widths for each Maximum calculated occupant load for A separate schematic plan ourposes of occupancy selection of doors with particular of doors with defection of doors with election of doors with election of doors with election of doors equipped to cation of emergency expressions and the square footage of each of the square footage of e	ty line locations (if not on a with respect to distance area as it relates to occupate area as it relates to occupate area (1017) istances (Tables 1006.2.1) in exit door upant load cappeach exit door upant load cappe	to assumed print load control load control load control load control load control load can act and act act and act and act and	ay (1010.1.9.7) assification I-2	ed on egress width (1005.3) acture is provided for (407.5)
	rgency Lighting: Signs: Alarm: Re Detection Systems: Hardware:  Fire and/or smoke rated vector wall opening are Decupancy Use for each and Decupant loads for each and Decupant load for an exit widths for each and Decupant load for an exit widths for each and Decupant load for a separate schematic plan burposes of occupancy separate schematic plan burposes of occupan	Signs: No Yes Alarm: No Yes  LIFE SAFETY PLA  Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on Exterior wall opening area with respect to distance Occupancy Use for each area as it relates to occupa Occupant loads for each area Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1) Dead end lengths (1020.4) Clear exit widths for each exit door Maximum calculated occupant load capa Actual occupant load for each exit do A separate schematic plan indicating ourposes of occupancy separation Location of doors with panic hardware (10) Location of doors with electromagnetic egress lock Location of doors equipped with hold-open devices Location of emergency escape windows (1030) The square footage of each smoke compartment for	Signs: No Yes  Alarm: No Yes  E Detection Systems: No Yes  E Hardware: No Yes  LIFE SAFETY PLAN REQUIREM  Fety Plan Sheet #:  Fire and/or smoke rated wall locations (Chapter 7)  Assumed and real property line locations (if not on the site plan)  Exterior wall opening area with respect to distance to assumed procupant loads for each area as it relates to occupant load care  Exit access travel distances (1017)  Common path of travel distances (Tables 1006.2.1  Dead end lengths (1020.4)  Clear exit widths for each exit door  Maximum calculated occupant load cape  Actual occupant load for each exit door  Maximum calculated occupant load cape  Actual occupant load for each exit door  Cocation of doors with panic hardware (101 10)  Location of doors with delayed egress locks and the amount of delayed cocation of doors with electromagnetic egress locks (1010.1.9.9)  Location of doors equipped with hold-open devices  Location of emergency escape windows (1030)  The square footage of each smoke compartment for Occupancy Cleans  Tho Yes  Partial  No Yes  Partial  Partial  No Yes  Partial  Partial  No Hesquare footage of each smoke compartment for Occupancy Cleans  Location of conservation of locations (International Partial Part	LIFE SA TEM REQUIREMENTS  regency Lighting: No Yes  Alarm: No Yes  Defrection Yes  Alarm: No Yes  Re Detection Systems: No Yes  Re Detection Systems: No Yes  LIFE SAFETY PLAN REQUIREMENTS  fety Plan Sheet #: Fire and/or smoke rated wall locations (Chapter 7)  Assumed and real property line locations (if not on the site plan)  Exterior wall opening area with respect to distance to assumed portion of core and area as it relates to occupant load core core core and the site of the site

ACCESSIBLE DWELLY G UNITS (SECTION 1 MOTABUILDING TOTAL ACCESSIBLE ACCESSIBLE TYPE B TOTAL UNITS Units Units Units ACCESSIBLE UNITS REQUIRED PROVIDED PROVIDED PROVIDED LOT OR PARKING TOTAL # OF PARKING SA # OF ACCESSIBLE SPACES PROVIDED TOTAL# AREA REGULAR WITH VAN SPACES WITH ACCESSIBLE REQUIRED 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 ZE UNISEX /TUBS REGULAR ACCESSIBLE EXIST'G NEW

REQ'D

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

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REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIMINARY	OSV	04/11/25
△_	100% CONSTRUCTION	_osv	04/18/25
<u> </u>	100% CONSTRUCTION	SRZ	04/24/25
$\wedge$ _			
$\overline{\wedge}$			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845

REVISION:



DATE DRAWN: 04/24/25 ATC JOB NO: 14883118 CUSTOMER NAME: 368-415 CUSTOMER ID: SINC007003

**APPENDIX B** 

SHEET NUMBER:

G-005

2018 NC Administrative Code and Policies

2018 NC Administrative Code and Policies

ENERGY SUM JARY	
NERGY REQUIREMENTS:  The following data shall be considered minimum and any performance method, state the annual energy cost for the oposed design.  State of the following data shall be considered minimum and any performance method, state the annual energy cost for the oposed design.  State of the following data shall be considered minimum and any project information for the plan data shaperformance method, state the annual energy cost for the oposed design.  State of the following data shall be considered minimum and any project information for the plan data shaperformance design vs annual energy cost for the oposed design.  State of the following data shall be considered minimum and any project information for the plan data shaperformance design vs annual energy cost for the oposed design.  State of the following data shall be considered minimum and any project information for the plan data shaperformance design vs annual energy cost for the oposed design.  State of the following data shall be considered minimum and any project information for the plan data shaperformance design vs annual energy cost for the oposed design.  State of the following data shall be considered minimum and any project information for the plan data shaperformance design vs annual energy cost for the oposed design.  State of the following data shaperformance design vs annual energy cost for the oposed design.  State of the following data shaperformance design vs annual energy cost for the oposed design.  State of the following data shaperformance design vs annual energy cost for the oposed design.  State of the following data shaperformance design vs annual energy cost for the oposed design.  State of the following data shaperformance design vs annual energy cost for the oposed design.  State of the following data shaperformance design vs annual energy cost for the oposed design.  State of the following data shaperformance design vs annual energy cost for the oposed design vs annual energy cost for the oposed design.	
xisting building envelope complies with Yes (The remainder of this section is not applicable)	
xempt Building: No U vutory reference):	
Climate Zone: 3A	
Method of Compliance: Energy de Performance Prescriptive  ASHRAE 90.1 Performance Prescriptive  (If "Other" specify source here)	
HERMAL 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: Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors U-Value of assembly Solar heat gain projection for Door R-Value) Door R-Value	
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:

slab heated:

2018 NC Administrative Code and Policies

# 2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

Importance Factors: Snow (Is)   Seismic (IE)   Seismic	ESIGN LOADS:			,
Mezzanine Floor psf  Ground Snow Load: psf  Wind Load: Basic Wind Speed Exposure Category  EISMIC DESIGN CATEGORY: D	Importance Factors:	( - /		
Wind Load: Basic Wind Speed Exposure Category  EISMIC DESIGN CATEGORY: Drovide the following Seismic Design P Risk Category (Table 1604 Spectral Response Accet	Live Loads:	Mezzanine	psf	
Basic structural system  Bearing Wall  Bearing Wall  Dual w/Special Moment Frame  Building Frame  Moment Frame  Inverted Pendulum  Analysis Procedure:  Simplified  Equivalent Lateral Force  Dynamic  Architectural, Mechanical, Components anchored?  Yes  No  ATERAL DESIGN CONTROL:  Earthquake  Wind  OIL BEARING CAPACITIES:  Field Test (provide copy of test report)  Presumptive Historical Data  Presumptive Historical Data  Historical Data  Presumptive Historical Moment Frame  Dual w/Special Moment Frame  Dual w/Special Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural, Moment Frame  Wind  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Dy	<b>Ground Snow Load:</b>	psf		
Basic structural system  Bearing Wall  Bearing Wall  Dual w/Special Moment Frame  Building Frame  Moment Frame  Inverted Pendulum  Analysis Procedure:  Simplified  Equivalent Lateral Force  Dynamic  Architectural, Mechanical, Components anchored?  Yes  No  ATERAL DESIGN CONTROL:  Earthquake  Wind  OIL BEARING CAPACITIES:  Field Test (provide copy of test report)  Presumptive Historical Data  Presumptive Historical Data  Historical Data  Presumptive Historical Moment Frame  Dual w/Special Moment Frame  Dual w/Special Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural, Moment Frame  Wind  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Dy		usic Wind Speed sposure Category	Olika (SCE-7)	
Basic structural system  Bearing Wall  Bearing Wall  Dual w/Special Moment Frame  Building Frame  Moment Frame  Inverted Pendulum  Analysis Procedure:  Simplified  Equivalent Lateral Force  Dynamic  Architectural, Mechanical, Components anchored?  Yes  No  ATERAL DESIGN CONTROL:  Earthquake  Wind  OIL BEARING CAPACITIES:  Field Test (provide copy of test report)  Presumptive Historical Data  Presumptive Historical Data  Historical Data  Presumptive Historical Moment Frame  Dual w/Special Moment Frame  Dual w/Special Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural, Moment Frame  Wind  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Dy		Y: Pall	□D	
Basic structural system  Bearing Wall  Bearing Wall  Dual w/Special Moment Frame  Building Frame  Moment Frame  Inverted Pendulum  Analysis Procedure:  Simplified  Equivalent Lateral Force  Dynamic  Architectural, Mechanical, Components anchored?  Yes  No  ATERAL DESIGN CONTROL:  Earthquake  Wind  OIL BEARING CAPACITIES:  Field Test (provide copy of test report)  Presumptive Historical Data  Presumptive Historical Data  Historical Data  Presumptive Historical Moment Frame  Dual w/Special Moment Frame  Dual w/Special Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural, Moment Frame  Wind  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Dy	Risk Category (Table 1	504	□ III □ IV %g	%g
Basic structural system  Bearing Wall  Bearing Wall  Dual w/Special Moment Frame  Building Frame  Moment Frame  Inverted Pendulum  Analysis Procedure:  Simplified  Equivalent Lateral Force  Dynamic  Architectural, Mechanical, Components anchored?  Yes  No  ATERAL DESIGN CONTROL:  Earthquake  Wind  OIL BEARING CAPACITIES:  Field Test (provide copy of test report)  Presumptive Historical Data  Presumptive Historical Data  Historical Data  Presumptive Historical Moment Frame  Dual w/Special Moment Frame  Dual w/Special Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural, Moment Frame  Wind  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Architectural Force  Dynamic  Presumptive Historical Moment Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Architectural Force  Dynamic  Presumptive Historical Frame  Dual w/Intermediate R/C or Special Steep   Dynamic  Dy	Site Classification (ASC	CE 7) B	□ C □ D □ E □	F
Building Frame Dual w/Intermediate R/C or Special Stee  Moment Frame Inverted Pendulum  Analysis Procedure: Simplified Equivalent Lateral Force Dynamic  Architectural, Mechanical, Components anchored? Yes No  ATERAL DESIGN CONTROL: Earthquake Wind  OIL BEARING CAPACITIES:  Field Test (provide copy of test report) psf  Presumptive Bearing capacity psf	Data So	ource: did l'est	Presumptive Historica	al Data
Architectural, Mechanical, Components anchored?	Basic structural system	Building Frame	Dual w/Intermedi	ate R/C or Special Stee
ATERAL DESIGN CONTROL: Earthquake Wind COLL BEARING CAPACITIES:  Field Test (provide copy of test report) psf Presumptive Bearing capacity psf	Analysis Procedure:	☐ Simplified	☐ Equivalent Lateral Force	Dynamic
OIL BEARING CAPACITIES:  Field Test (provide copy of test report) psf Presumptive Bearing capacity psf	Architectural, Mechani	cal, Components anchor	ed? Yes No	
Field Test (provide copy of test report) psf Presumptive Bearing capacity psf	ATERAL DESIGN CONTRO	L: Earthquake	Wind	
	Field Test (provide copy	of test report)		
			·	

**AMERICAN TOWER®** 326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net PRELIMINARY 100% CONSTRUCTION OSV 04/18/25 100% CONSTRUCTION ATC SITE NUMBER: 306567 ATC SITE NAME: DUNN NC 3 AT&T MOBILITY SITE NUMBER: SINC007003 AT&T MOBILITY SITE NAME: 368-415 SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845

DATE DRAWN:	04/24/25
ATC JOB NO:	14883118
CUSTOMER NAME:	368-415
CUSTOMER ID:	SINC007003

APPENDIX B

REVISION:

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 SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thern	nal Zon	e					
	winte	r dry bult	):				
	sumn	ner dry bu	ılb:				<b>.</b> (3)
Interi	or desig	n conditi	ons		MARIARI	S	13//
	winte	r dry bult	o:				
		ner dry bu			6,	<b>7.</b> //	
		ve humidi			🛇		
		ing load:					
	ng cool	ing load:		V			
	ng cool unical S	ing load: pacing C	onditionin	V			
	ng cool	ing load: pacing C		V			
	ng cool unical S Unita	ing load: pacing C	onditionin	V			
	ng cool nnical S Unita do	ing load: pacing C  ry escription eating effi	onditionin of unit:	V			
	ng cool anical S Unita do	ing load: pacing C  ry escription eating effi	onditionin of unit: ciency:	V			
	ng cool anical S Unita do	ing load: pacing C  ry escription eating effi	onditionin of unit:	V			
	ng cool anical S Unita do	ing load:  pacing Contry escription eating efficiently efficiently efficiently efficiently entirely en	onditionin of unit: ciency:	V			
	ng cool  unital S  Unita de he co	ing load:  pacing C  ary escription eating efficating effications category	onditionin of unit: ciency:	g System			
	ng cool  unital S  Unita de he co	ing load:  pacing C  pry escription eating effit boling effit ze categories ze categories	of unit: ciency: ciency: ry of unit:	g System			

# 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 Prescriptive
ASHRAE 90.	
Lighting schedule (each fixture type)	<u> </u>
lamp type required in fixture number of lamps in fixture ballast type used in the fi	A BUILDING  A Coved (whole building or space by space)
number of ballasts in	( B)
total wattage per fy	
total interior way	howed (whole building or space by space)
total exterior wa	s. allowed
R	
Additional Efficiency Packag non	
(When using the 2018 NCECC; not re	equired for ASHRAE 90.1)
C406.2 More Efficient HV	AC Equipment Performance
C406.3 Reduced Lighting F	• •
C406.4 Enhanced Digital L	•
C406.5 On-Site Renewable	
C406.6 Dedicated Outdoor	Air System
C406.7 Reduced Energy Us	se in Service Water Heating
-	-

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PREPARED BY:

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IFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL NIGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO. LC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH-AROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MAH ENGINEERING, LC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GRAW ENGINEERING, LC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL ONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE MITTED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH

REV.	DESCRIPTION	BY	DATE
$\mathbb{A}_{-}$	PRELIMINARY	OSV	04/11/25
△_	100% CONSTRUCTION	osv	04/18/25
<u> </u>	100% CONSTRUCTION	SRZ	04/24/25
$\wedge_{-}$			
$\overline{\wedge}$			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845



SEAL:

04/24/



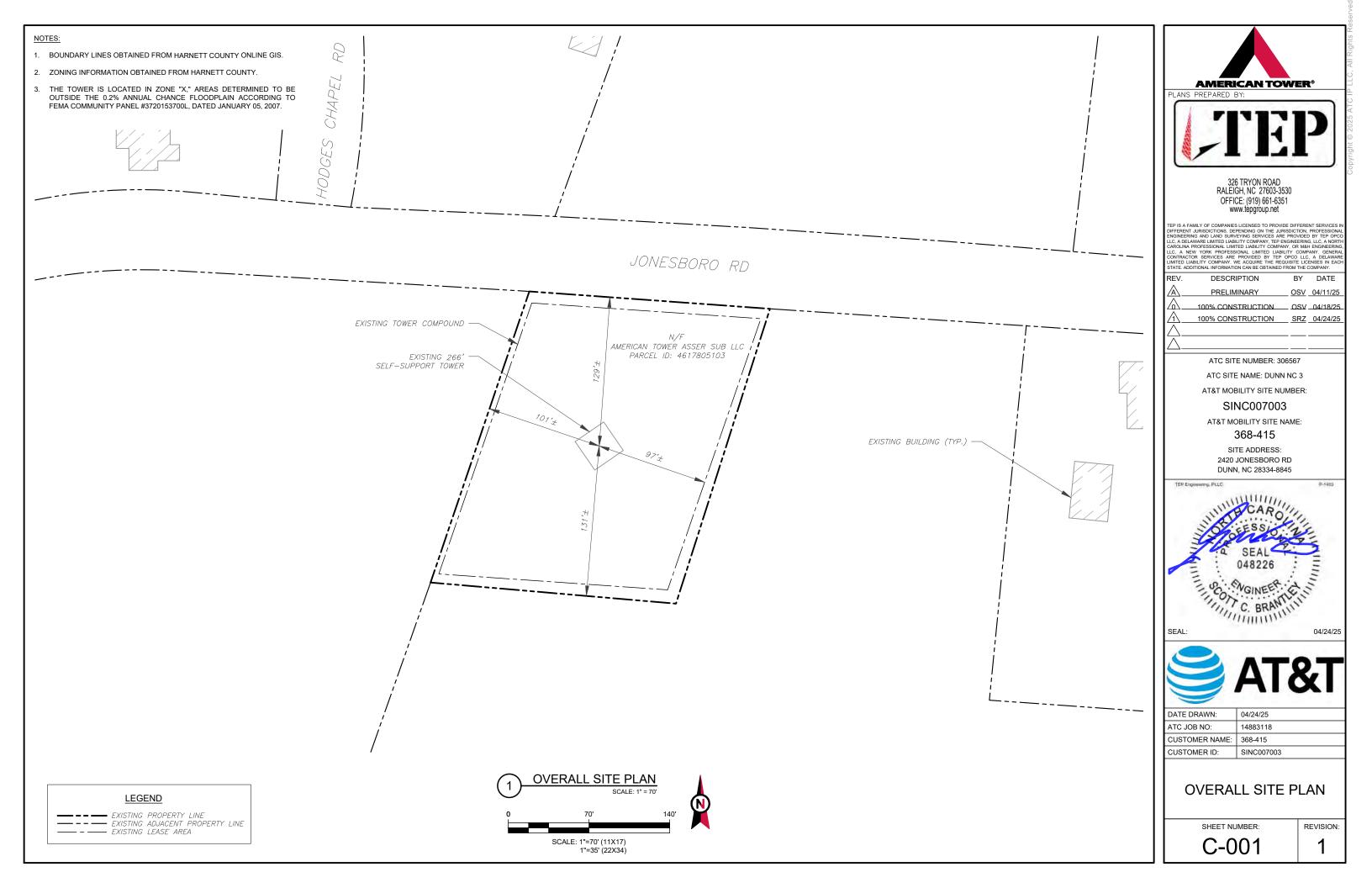
DATE DRAWN:	04/24/25
ATC JOB NO:	14883118
CUSTOMER NAME:	368-415
CUSTOMER ID:	SINC007003

APPENDIX B

SHEET NUMBER:

REVISION:

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.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE 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 8 AUTOMATIC TRANSFER SWITCH ATS BOLLARD CELL SITE CABINET CSC D DISCONNECT ELECTRICAL Ε FIBER GEN **GENERATOR** GENERATOR RECEPTACLE G HH. V HAND HOLE, VAULT

ICE BRIDGE ΙB KENTROX BOX LC LIGHTING CONTROL METER M РΒ PULL BOX POWER POLE TELCO

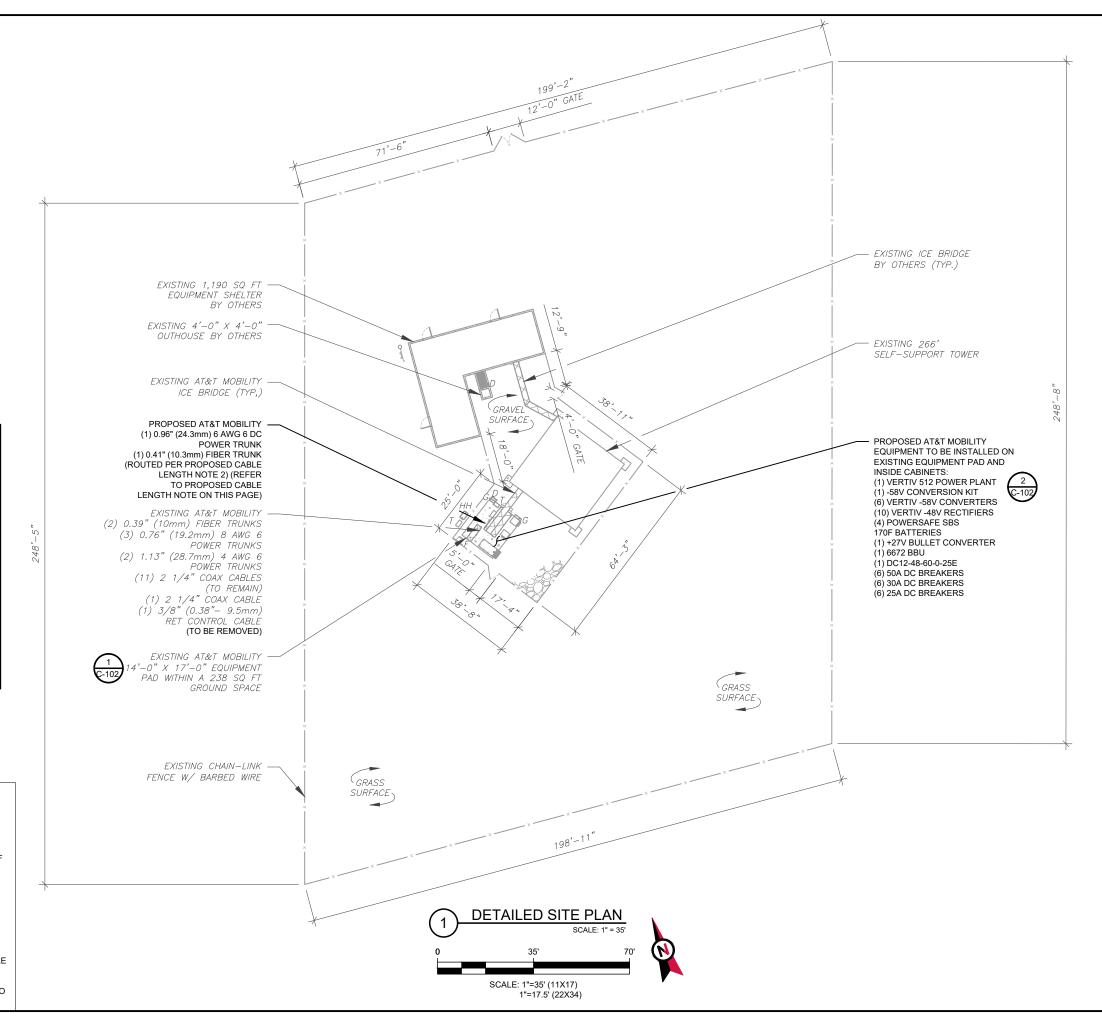
TRANSFORMER

CHAINLINK FENCE

TRN

#### PROPOSED CABLE NOTES:

- ESTIMATED LENGTH OF PROPOSED CABLE IS <u>305</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
$\triangle_{-}$	PRELIMINARY	OSV	04/11/25
△_	100% CONSTRUCTION	OSV	04/18/25
$\Lambda_{-}$	100% CONSTRUCTION	SRZ	04/24/25
$\wedge$ _			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845



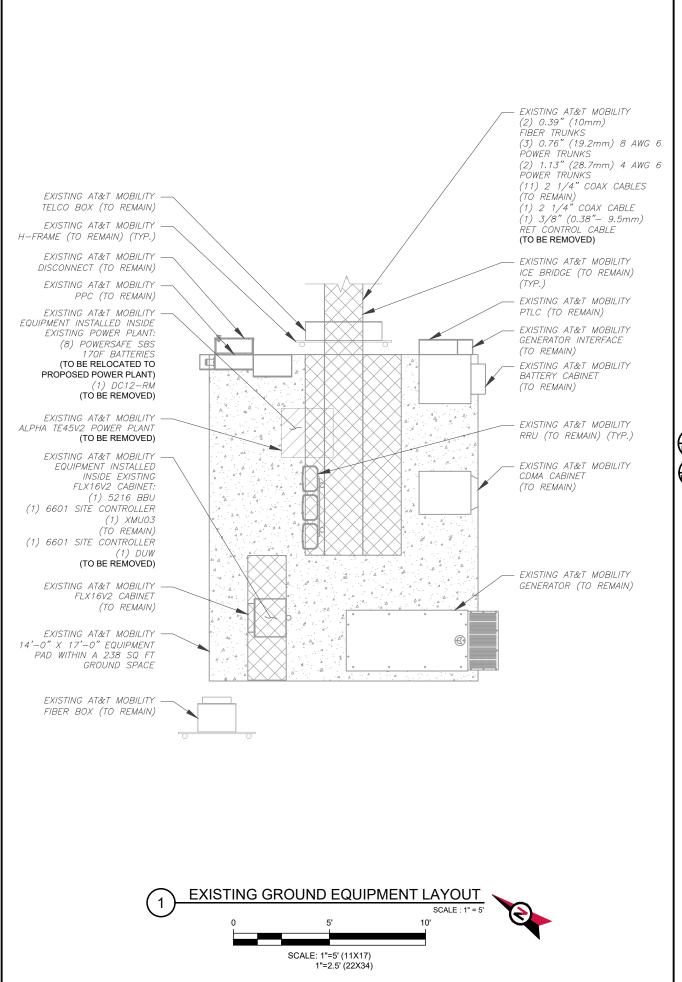


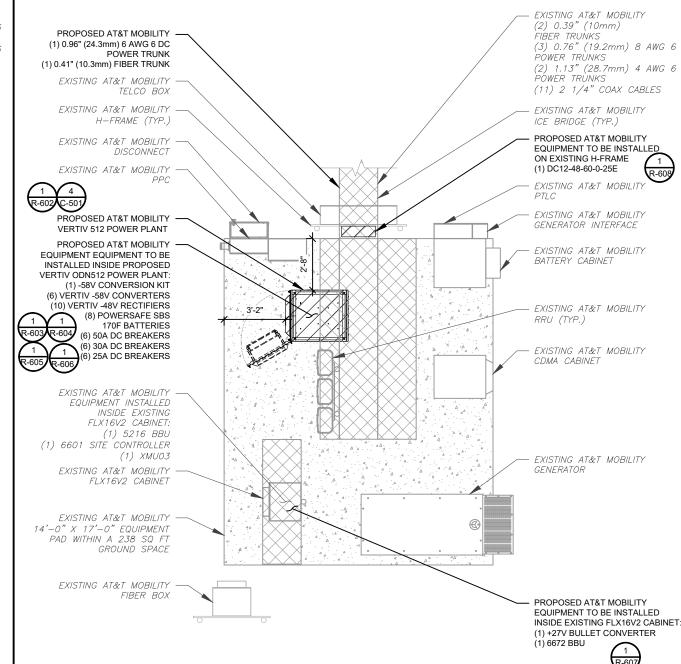
DATE DRAWN:	04/24/25
ATC JOB NO:	14883118
CUSTOMER NAME:	368-415
CUSTOMER ID:	SINC007003

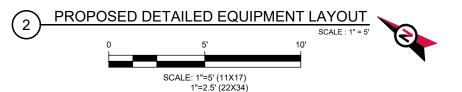
**DETAILED SITE PLAN** 

SHEET NUMBER:

C-101











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$\triangle$			
$\wedge$			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845

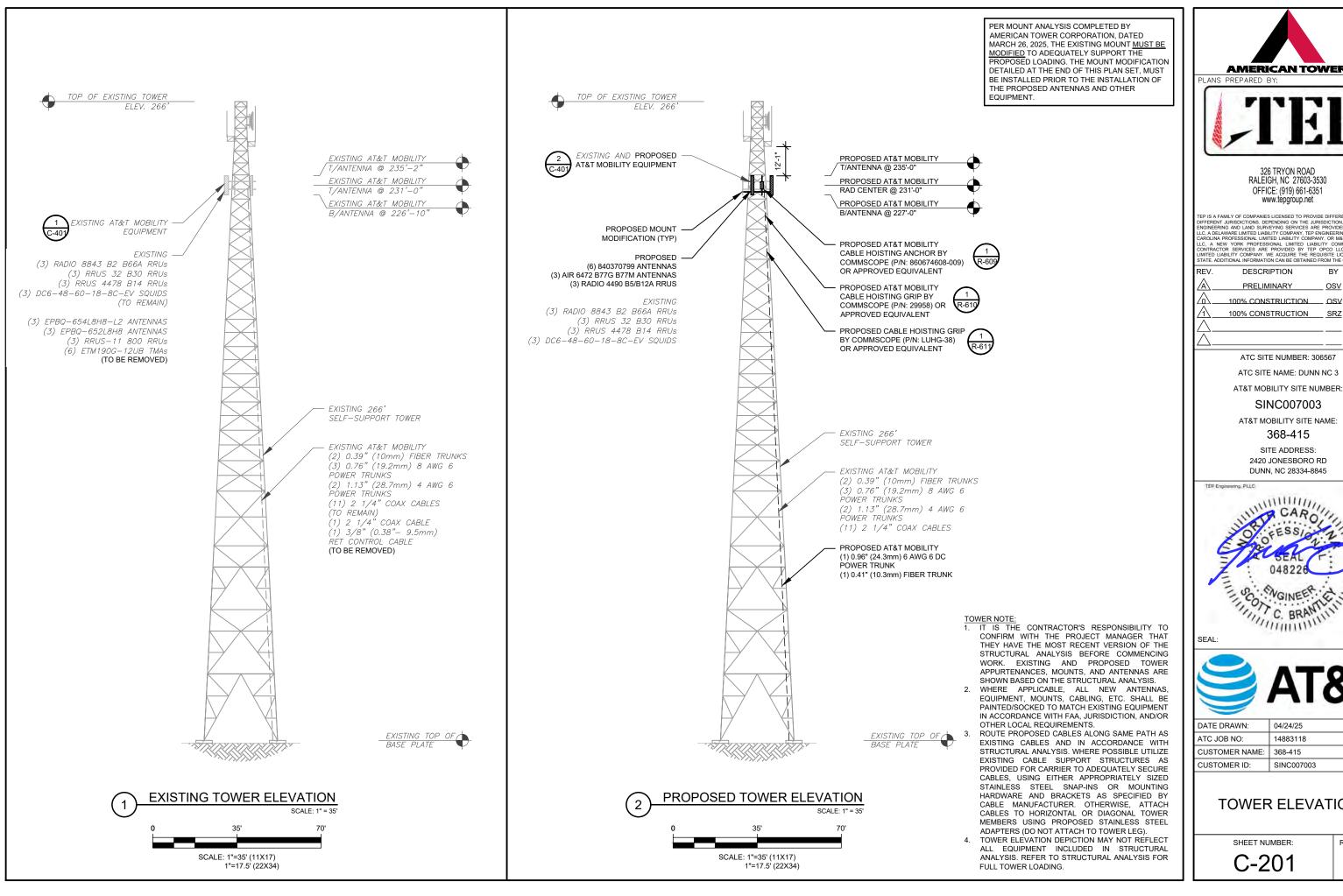


DATE DRAWN:	04/24/25
ATC JOB NO:	14883118
CUSTOMER NAME:	368-415
CUSTOMER ID:	SINC007003

# **DETAILED EQUIPMENT** LAYOUT

SHEET NUMBER:

C-102



**AMERICAN TOWER®** 



TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSION. NEIGHBERING, AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OF-LLC, A DELAWARE LIMITED LABILITY COMPANY, TEP ENGINEERING, LLC, A NOR TAROLINA PROFESSIONAL LIMITED LIBILITY COMPANY, OR MAIR HOSINEERIN LLC, A NEW YORK PROFESSIONAL LIMITED LIBBLITY COMPANY, GENER, CONTRACTOR SERVICES ARE PROVIDED BY TEP OFFOCI LIC. A DELAWAR STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

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l	$\Lambda_{-}$	100% CONSTRUCTION	SRZ	04/24/25
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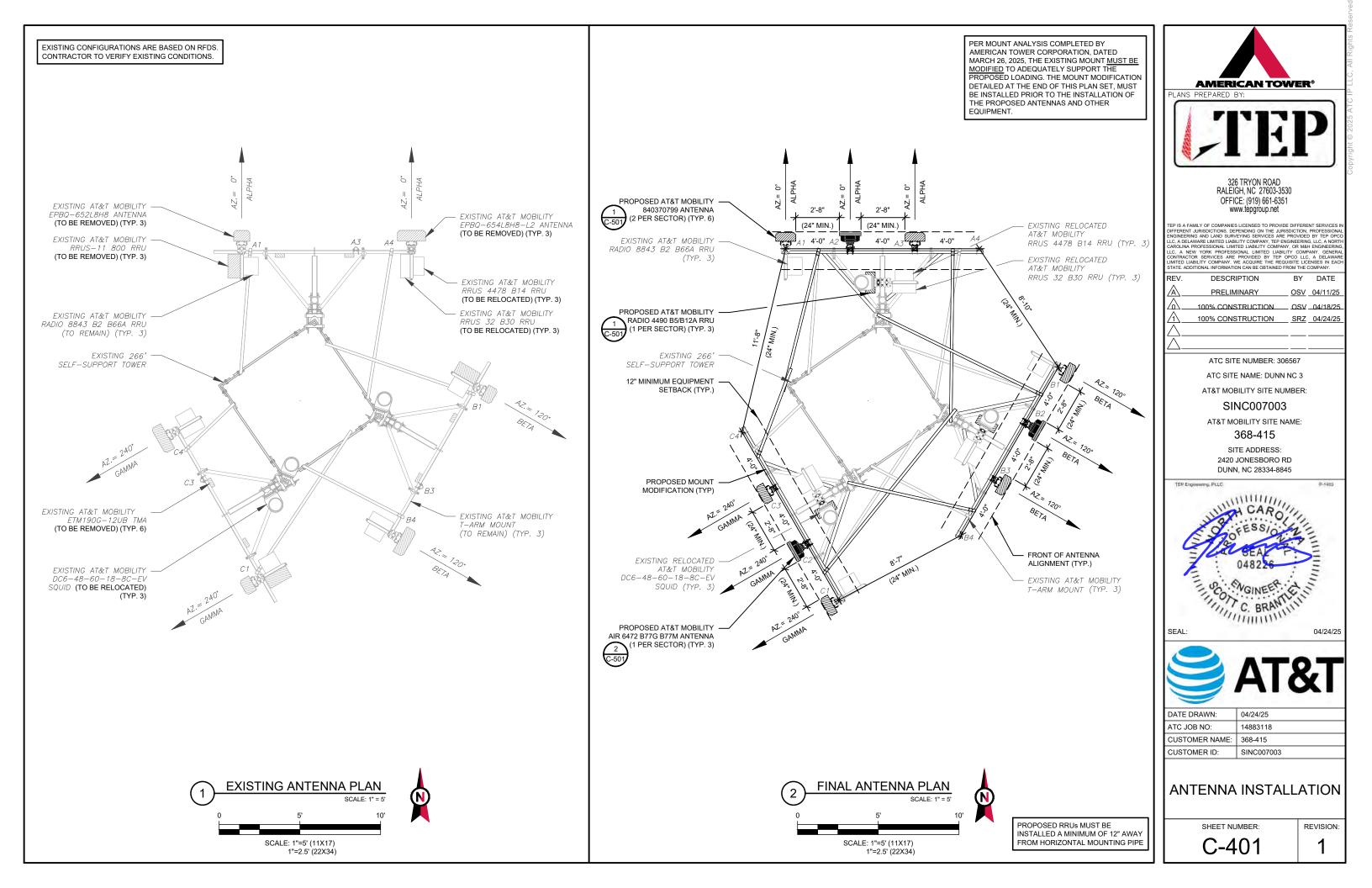
2420 JONESBORO RD

SON WINEER THE



l	DATE DRAWN:	04/24/25
ı	ATC JOB NO:	14883118
l	CUSTOMER NAME:	368-415
l	CUSTOMER ID:	SINC007003
ı		

**TOWER ELEVATION** 



EXISTING ANTENNA SCHEDULE																					
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY															
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS													
			A1	EPBQ-652L8H8	-	RMV	(1) RRUS-11 800 (1) RADIO 8843 B2 B66A	RMV RMN													
ALPHA	231'	0.	A2	_	_	_	-	_													
ALPHA	231		A3	_	_	_	(2) ETM190G-12UB	RMV													
															A4	EPBQ-654L8H8-L2	-	RMV	(1) RRUS 32 B30 (1) RRUS 4478 B14	REL REL	
	231'		B1	EPBQ-652L8H8	_	RMV	(1) RRUS-11 800 (1) RADIO 8843 B2 B66A	RMV RMN													
BETA		120°	B2	_	_	-	-	_													
DETA		231 1/20	231	231 1720	231 120	<i>B3</i>	_	_	_	(2) ETM190G-12UB	RMV										
			B4	EPBQ-654L8H8-L2	_	RMV	(1) RRUS 32 B30 (1) RRUS 4478 B14	REL REL													
			C1	EPBQ-652L8H8	-	RMV	(1) RRUS-11 800 (1) RADIO 8843 B2 B66A	RMV RMN													
GAMMA	231'	240°	C2	_	_	_	-	_													
GAIVINA	231	240	C3	_	_	_	(2) ETM190G-12UB	RMV													
			C4	EPBQ-654L8H8-L2	-	RMV	(1) RRUS 32 B30 (1) RRUS 4478 B14	REL REL													

	_	
		NOTES
	1.	GC TO VERIFY THE FINAL RFDS
ıs		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.
$\dashv$	3.	CONFIRM SPACING OF PROPOSED
_		EQUIP DOES NOT CAUSE TOWER
		CONFLICTS NOR IMPEDE TOWER
_	4	CLIMBING PEGS. THE ANTENNA ORIENTATION PLAN
	4.	IS A SCHEMATIC. ATC DID NOT
		CONFIRM EXISTING SITE
T		CONDITIONS INCLUDING, BUT NOT
$\dashv$		LIMITED TO, ANTENNA AZIMUTHS,
4		MOUNT CONFIGURATIONS AND
		TOWER ORIENTATION. SCALES
		SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS
		ARE APPROXIMATE. THE
		CONTRACTOR SHALL VERIFY ALL
$\neg$		EXISTING CONDITIONS PRIOR TO
$\dashv$		INSTALLATION AND NOTIFY ATC
4	_	OF ANY DISCREPANCIES.
	5.	CONTRACTOR TO ENSURE
		PROPER SEPARATION IN ACCORDANCE WITH AT&T'S
		FIRSTNET REQUIREMENTS.
	$\overline{}$	

]					F	INAL ANTENNA SCHEDULE									
1	LO	LOCATION			ANTE	NNA SUMMARY		NON ANTENNA SUMMARY							
	SECTOR	RAD	AZ	POS	ANTENNA	BAND	BAND STATUS ADDITIONAL TOWER EQUIPMENT		STATUS						
				A1	840370799	LTE 700/LTE AWS/LTE 1900	ADD	(1) RADIO 8843 B2 B66A (1) RADIO 4490 B5/B12A	RMN ADD						
	AL DUA	0041	0°	A2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	-	-						
	ALPHA	231	231	231'	0-	A3	840370799	LTE 700 (FNET)/LTE WCS	ADD	(1) RRUS 32 B30 (1) RRUS 4478 B14	RMN RMN				
										A4	-	-	-	-	-
				B1	840370799	LTE 700/LTE AWS/LTE 1900	ADD	(1) RADIO 8843 B2 B66A (1) RADIO 4490 B5/B12A	RMN ADD						
	DETA	231'	231'	4000	4000	1000	4000	1000	120°	B2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	-	-
	BETA			231	231	231	231	231		В3	840370799	LTE 700 (FNET)/LTE WCS	ADD	(1) RRUS 32 B30 (1) RRUS 4478 B14	RMN RMN
				B4	-	-	-	-	-						
				C1	840370799	LTE 700/LTE AWS/LTE 1900	ADD	(1) RADIO 8843 B2 B66A (1) RADIO 4490 B5/B12A	RMN ADD						
	CANMAA	0041	0400	C2	AIR6472 B77G B77M	5G CBAND/5G DOD	ADD	-	-						
	GAMMA	231'	240°	C3	840370799	LTE 700 (FNET)/LTE WCS	ADD	(1) RRUS 32 B30 (1) RRUS 4478 B14	RMN RMN						
					C4	-	-	-	-	-					

# 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		COAX	DC / RET	FIBER	STATUS	
(3) DC6-48-60-18-8C-EV	REL	(11) 2-1/4"	(3) 0.76" (19.2mm) 8 AWG 6	(2) 0.39" (10mm)	RMN	
_	_	_	(2) 1.13" (28.7mm) 4 AWG 6	_	RMN	
_	_	(1) 2-1/4"	(1) 3/8" (0.38"- 9.5mm) RET	_	RMV	

	(3) DC6-48-60-18-8C-EV	RMN	(11) 2-1/4"	
EQUIPMENT SCHEDULES	-	-	-	
1) EQUIT MENT SCHEDULES	-	-	-	

FINAL FIBER DISTRIBUTION/S	QUID		FINAL CABLING SUMMARY				
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS		
(3) DC6-48-60-18-8C-EV	RMN	(11) 2-1/4"	(3) 0.76" (19.2mm) 8 AWG 6	(2) 0.39" (10mm)	RMN		
-	-	-	(2) 1.13" (28.7mm) 4 AWG 6	-	RMN		
-	-	-	(1) 0.96" (24.3mm) 6 AWG 6	(1) 0.41" (10.3mm)	ADD		





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ı	$\overline{\wedge}$			
	$\overline{\wedge}$			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845



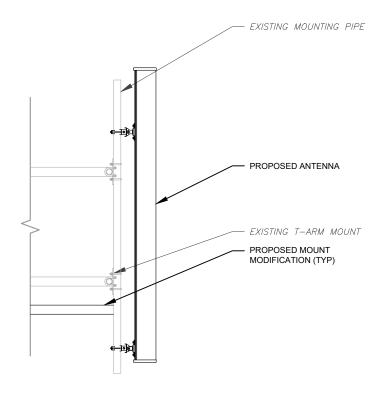


DATE DRAWN:	04/24/25
ATC JOB NO:	14883118
CUSTOMER NAME:	368-415
CUSTOMER ID:	SINC007003

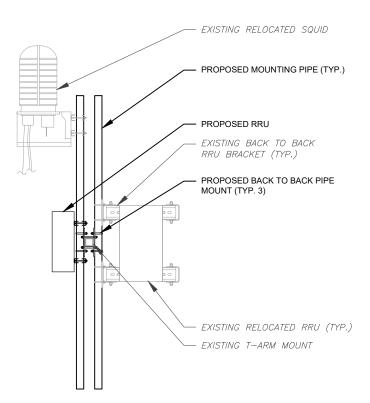
# ANTENNA SCHEDULE

SHEET NUMBER:

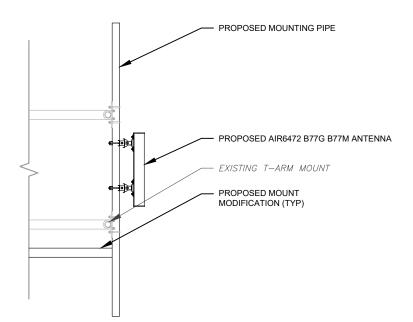
C-402



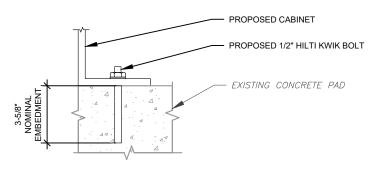
PROPOSED ANTENNA MOUNTING DETAIL



PROPOSED RRU AND RELOCATED SQUID MOUNTING DETAIL



PROPOSED 5G ANTENNA MOUNTING DETAIL



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.

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



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l	REV.	DESCRIPTION	BY	DATE
l	$\mathbb{A}_{-}$	PRELIMINARY	OSV	04/11/25
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ATC SITE NUMBER: 306567

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DATE DRAWN:	04/24/25					
ATC JOB NO:	14883118					
CUSTOMER NAME:	368-415					
CUSTOMER ID:	SINC007003					
	ATC JOB NO: CUSTOMER NAME:					

# CONSTRUCTION **DETAILS**

SHEET NUMBER:

C-501

AC POWER PANEL A (EXISTING)											
						•	,				
					LTS, 1-PH 20						
	MAIN BREAKER RATING (A)							TEM VOL	TAGE	(V):	240
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	С	720	PRI HETA
1 33 #17 311	0	nc	10,2	3		720	4	10/2	С	720	
PCU #2 / OFF	0	nc	40/2	5	720		6	15/2	С	720	GRW1 HETA
1 33 %27 311	0	nc	10,2	7		720	8	10,2	С	720	51.07111217
PCU #3 / OFF	0	nc	40/2	9	720		10	15/2	С	720	GRW2 HETA
1 60 #37 611	0	nc	10/2	11		720	12	5	С	720	STATE IN
PCU #4 / OFF	0	nc	40/2	13	1950		14	20/2	С	1950	A/C
	0	nc	10/2	15		1950	16		С	1950	•
PCU #5 / OFF	0	nc	40/2	17	180		18	20/1	nc	180	RECEPTS , GFCI, TELCO
1 66 #3 / 611	0	nc	70/2	19		180	20	15/1	nc	180	AUX GFCI
PCU #6 / OFF	0	nc	40/2	21	8820		22	125/2	С	8820	TE45 SUB PANEL
1 33 % 7 311	0	nc	10/2	23		8640	24	100	С	8640	12 10 002 1 7 11 12 2
BLANK		С		25	0		26		С		BLANK
BLANK		С		27		0	28		С		BLANK
BLANK		С		29	0		30		С		BLANK
	F		E TOTAL		13110	12930					
PHASE TOTALS (A):				LS (A):	109	108					
CURRENT PER PHASE W/ 125% Continuous Loads(A):					136	134	Ampere:	s/phase (	canno	t exceed	main breaker rating
PANEL TOTAL (VA):					260	40		Legend	: c = c	ontinuou	s, nc=non-continuous
PANEL TOTAL W	/ 125% Co	ntinu	ious Load	ls (VA):	324	60					

			AC	POWER	PANEL S	UB PANEL	_(EXISTIN	VG)			
120/240 VOLTS, 1-PHASE, 3-WIRE, 125A											
	MAIN	BREA	KER RAT	ING (A):	12	25	SYS	TEM VOL	TAGE	(V):	240
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
MDL 1	2880	C	30/1	1	5760		2	30/2	С	2880	MDL 5
MDL 2	2880	С	30/1	3		5760	4	30/2	С	2880	
MDL 3	2880	С	30/1	5	3060		6	15/1	nc	180	HTR MAT GFCI
MDL 4	2880	С	30/1	7		2880	8		С		BLANK
	F	PHAS	E TOTAL	.S (VA):	8820	8640					
		PHA	SE TOTA	ALS (A):	74	72					
CURRENT PER PHASE W/ 125% Continuous Loads(A):						90	Ampere:	s/phase	canno	t exceed	main breaker rating
PANEL TOTAL (VA):						160		Legend	l: c = c	ontinuou	s, nc = non-continuous
PANEL TOTAL W	/ 125% Cd	ontinu	ious Load	ds (VA):	217	780					

**EXISTING AC PANEL - A** SCALE: N.T.S.

**EXISTING SUB AC PANEL** 

					WER PAN						
			1:	20/240 VC	DLTS, 1-PH	IASE, 3-W	/IRE, 200	)A			
	MAIN	BREA	KER RAT	ING (A) :	20	00	SYS	TEM VOL	TAGE	(V):	240
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
BLANK		С		1	100		17	60/2	С	100	SURGE SUPPRESSOR
BLANK		С		2		100	18	00/2	С	100	30RGE SUPPRESSOR
BATT/GFI	180	nc	20/1	3	180		19	50/2	nc	0	BTS / OFF
BLOCK HEATER	180	С	20/1	4		180	20	30/2	nc	0	B137 OI1
UNKNOWN / OFF	0	nc	50/2	5	3840		21		С	3840	
SINING VVIN 7 SI 1	0	nc	3012	6		3840	22	160/4	С	_	ERICCSON CABINET
UNKNOWN / OFF	0	nc	10/1	7	3840		23	100/4	С	3840	_ ENICOSON CABINET
UNKNOWN / OFF	0	nc	15/1	8		3840	24		С	3840	
BLANK		С		9	0		25	15/1	nc	0	UNKNOWN / OFF
BLANK		С		10		0	26		С		BLANK
BLANK		С		11	0		27		С		BLANK
BLANK		C		12		0	28		С		BLANK
BLANK		С		13	0		29		С		BLANK
BLANK		С		14		1440	30	15/1	С	1440	TELCO FAN
BLANK		С		15	180		31	20/1	nc	180	TELCO GFI
BLANK		С		16		180	32	20/1	nc	180	PTS GFI
	PHASE TOTALS (VA):					9580			,		
	PHASE TOTALS (A):					80					
CURRENT PER PHAS	CURRENT PER PHASE W/ 125% Continuous Loads(A):						Ampere	s/phase	canno	ot exceed	d main breaker rating
		PA	NEL TOTA	4L (VA):	177	720	Legend: c = continuous, nc = non-continuous			us, nc = non-continuous	
PANEL TOTAL W	// 125% Co	ontinu	ious Load	ds (VA):	220	)15					

**EXISTING AC PANEL - B** SCALE: N.T.S. **AMERICAN TOWER®** 



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	DATE DRAWN:	04/24/25
	ATC JOB NO:	14883118
	CUSTOMER NAME:	368-415
	CUSTOMER ID:	SINC007003
ı	, and the second	

**ELECTRICAL DETAILS** 

SHEET NUMBER:

REVISION: E-101

				AC DOM	VER PANE	I A (DDO)	DOSED!				
			12		DLTS, 1-PH		,	ıΑ			
	MAIN	BREA		ING(A):		200 SYSTEM VOLTAGE (V):			(V):	240	
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	С	720	PRI HETA
1 60 #17 611	0	nc	40/2	3		720	4	15/2	С	720	TRITIETA
PCU #2 / OFF	0	nc	40/2	5	720		6	15/2	С	720	GRW1 HETA
1 00 112 7 01 1	0	nc	10/2	7		720	8	10/2	С	720	SIXVIIIE IX
PCU #3 / OFF	0	nc	40/2	9	720		10	15/2	С	720	GRW2 HETA
1 00 %07 011	0	nc	10/2	11		720	12	10,2	С	720	SIXV211217X
PCU #4 / OFF	0	nc	40/2	13	1950		14	20/2	С	1950	A/C
	0	nc		15		1950	16		С	1950	,
PCU #5 / OFF	0	nc	40/2	17	180		18	20/1	nc	180	RECEPTS , GFCI, TELCO
1 00 %07 011	0	nc	10/2	19		180	20	15/1	nc	180	AUX GFCI
PCU #6 / OFF	0	nc	40/2	21	0		22	125/2	nc	0	TE45 SUB PANEL / OFF
	0	nc		23		0	24	12072	nc	0	
BLANK		С		25	0		26		С		BLANK
BLANK		С		27		0	28		С		BLANK
BLANK		С		29	0		30		С		BLANK
PHASE TOTALS (VA):				. ,	4290	4290					
PHASE TOTALS (A):			LS (A):	36	36		·		·		
CURRENT PER PHASE W/ 125% Continuous Loads(A):					44	44	Ampere	s/phase o	canno	t exceed	main breaker rating
		PAI	NEL TOTA	AL (VA):	85	80		Legend	: c = c	ontinuou	s, nc=non-continuous
PANEL TOTAL W	// 125% Co	ntinu	ious Load	ds (VA):	106	535					

AC POWER PANEL SUB PANEL A (PROPOSED) 120/240 VOLTS, 1-PHASE, 3-WIRE, 125A 125 MAIN BREAKER RATING (A): SYSTEM VOLTAGE (V): 240 VA c/nc BKR POSN POSN BKR c/nc VA DESCRIPTION DESCRIPTION c 30/1 MDL 1 / OFF 30/2 MDL 5 / OFF 30/1 MDL 2 / OFF 15/1 nc MDL 3 / OFF 0 c 30/1 5 0 HTR MAT GFCI / OFF 0 6 c 30/1 7 MDL 4 / OFF 0 8 BLANK PHASE TOTALS (VA): PHASE TOTALS (A): CURRENT PER PHASE W/ 125% Continuous Loads(A): 0 0 Amperes/phase cannot exceed main breaker rating Legend: c = continuous, nc = non-continuous PANEL TOTAL (VA): PANEL TOTAL W/ 125% Continuous Loads (VA):

1 PROPOSED AC PANEL - A
SCALE: N.T.S.

PROPOSED SUB AC PANEL
SCALE: N.T.S.

AC POWER PANEL B <b>(PROPOSED)</b> 120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
	MAIN	BREA		ING (A) :	20			TEM VOL	TAGE	(V):	240
DESCRIPTION	VA	c/nc	BKR	POSN	L1	L2	POSN	BKR	c/nc	VA	DESCRIPTION
VERTIV RECTIFIER 1 & 2	1245	С	30/2	1	1345		17	60/2	С	100	SURGE SUPPRESSOR
	1245	С		2		1345	18	00/2	С	100	JONGE GOLL MEGGON
BATT/GFI	180	nc	20/1	3	180		19	50/2	nc	0	BTS / OFF
BLOCK HEATER	180	С	20/1	4		180	20	00/2	nc	0	B107 011
UNKNOWN / OFF	0	nc	50/2	5	3840		21		С	3840	
SINING VIII 7 SI I	0	nc		6		3840	22	160/4	С	3840	ERICCSON CABINET
UNKNOWN / OFF	0	nc	10/1	7	3840		23	100/4	С	3840	ENICOSON CABINET
UNKNOWN / OFF	0	nc	15/1	8		3840	24		С	3840	
VERTIV RECTIFIER 3 & 4	1245	С	30/2	9	1245		25	15/1	nc	0	UNKNOWN / OFF
VERTIVICE THIER 3 & 4	1245	С	30/2	10		1245	26		С		BLANK
VERTIV RECTIFIER 5 & 6	1245	C	30/2	11	1245		27		С		BLANK
VERTIVICE THIER 5 & 0	1245	С	30/2	12		1245	28		С		BLANK
VERTIV RECTIFIER 7 & 8	1245	С	30/2	13	1245		29		С		BLANK
VERTIVICE THER 7 & 8	1245	С	30/2	14		2685	30	15/1	С	1440	TELCO FAN
VERTIV RECTIFIER 9 & 10	1245	С	30/2	15	1425		31	20/1	nc	180	TELCO GFI
VERTIVINECTIFIER 9 & 10	1245	С	3012	16		1425	32	20/1	nc	180	PTS GFI
	P	PHAS	E TOTAL	.S (VA):	14365	15805					
PHASE TOTALS (A):				LS (A):	120	132					
CURRENT PER PHASE W/ 125% Continuous Loads(A):					149	164	Ampere:	s/phase	canno	ot exceed	main breaker rating
PANEL TOTAL (VA):					301	.70	Legend: c = continuous, nc = non-continuous				s, nc = non-continuous
PANEL TOTAL W	/ 125% Co	ntinu	ious Load	ds (VA):	375	78					



LANS PREPARED BY:



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REV.	DESCRIPTION	BY	DATE
$\mathbb{A}_{-}$	PRELIMINARY	OSV	04/11/25
$\overline{\mathbb{A}}$	100% CONSTRUCTION	osv	04/18/25
1	100% CONSTRUCTION	SRZ	04/24/25
$\overline{\wedge}$			
$\Delta$			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD



SEAL:

04/24/25



	DATE DRAWN:	04/24/25
	ATC JOB NO:	14883118
	CUSTOMER NAME:	368-415
	CUSTOMER ID:	SINC007003

**ELECTRICAL DETAILS** 

SHEET NUMBER:

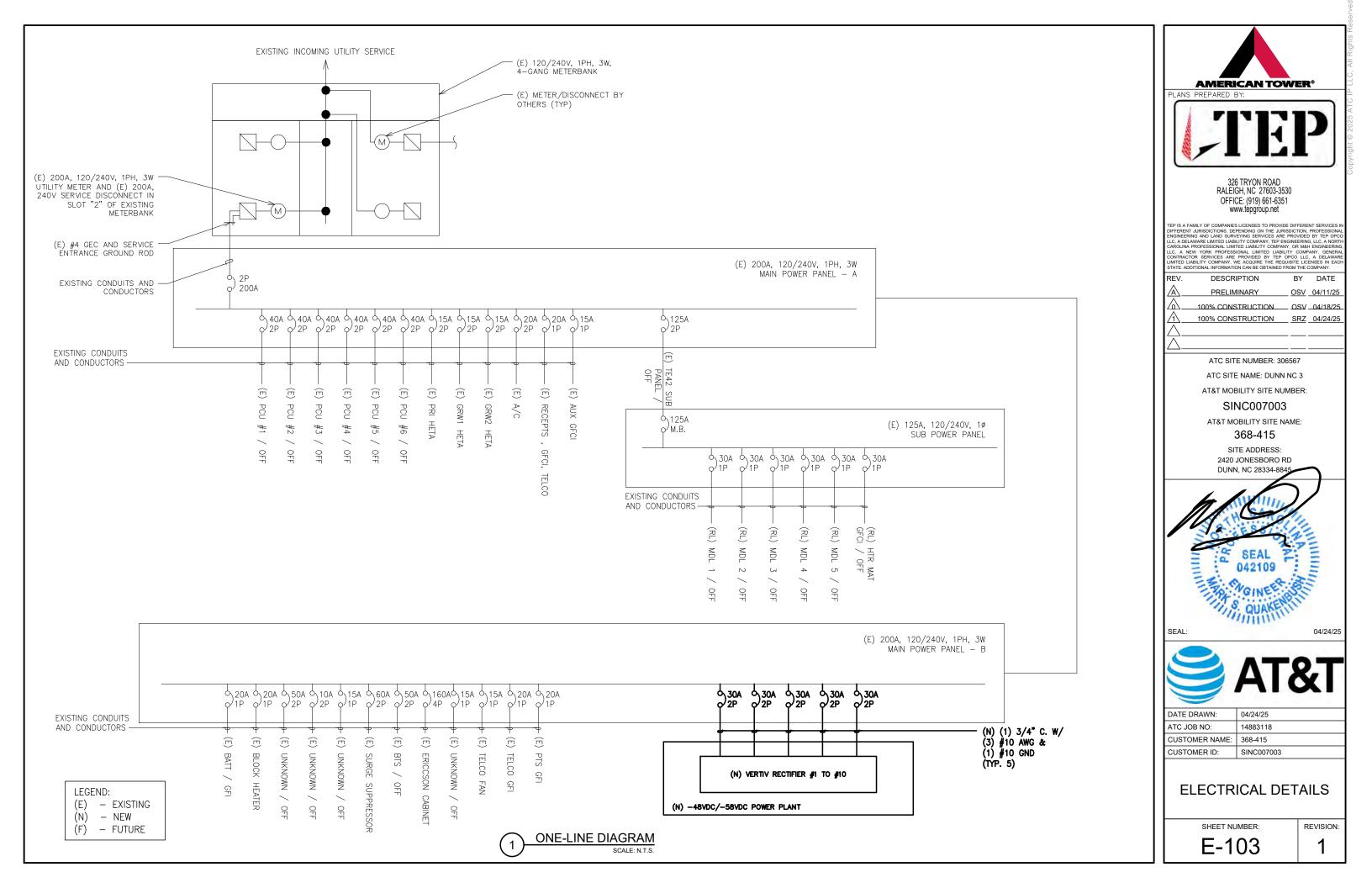
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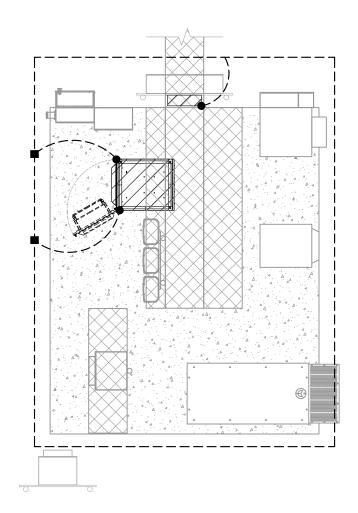
E-102

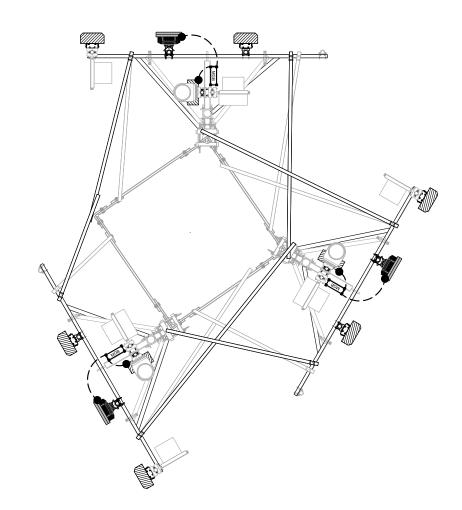
3

PROPOSED AC PANEL - B

SCALE: N.T.S.

















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	REV.	DESCRIPTION	BY	DATE
	$\mathbb{A}_{-}$	PRELIMINARY	OSV	04/11/25
	$\triangle_{-}$	100% CONSTRUCTION	osv.	04/18/25
	$\triangle$ _	100% CONSTRUCTION	SRZ	04/24/25
	$\triangle_{-}$			
	$\overline{\wedge}$			

ATC SITE NUMBER: 306567

ATC SITE NAME: DUNN NC 3

AT&T MOBILITY SITE NUMBER:

SINC007003

AT&T MOBILITY SITE NAME:

368-415

SITE ADDRESS: 2420 JONESBORO RD DUNN, NC 28334-8845



SEAL:

04/24/



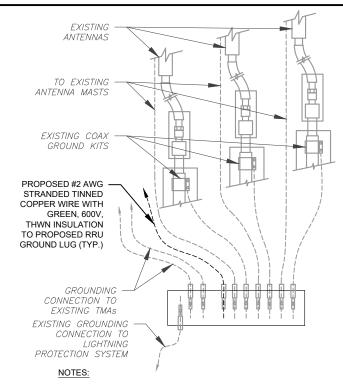
	DATE DRAWN:	04/24/25
	ATC JOB NO:	14883118
	CUSTOMER NAME:	368-415
	CUSTOMER ID:	SINC007003

**GROUNDING PLAN** 

SHEET NUMBER:

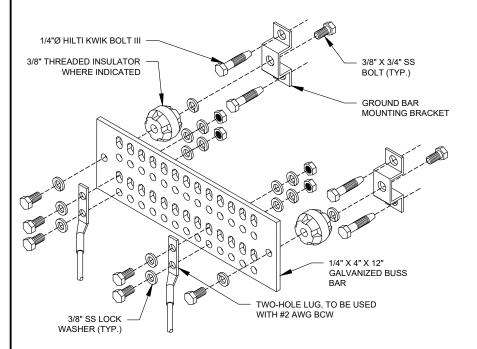
E-104

1



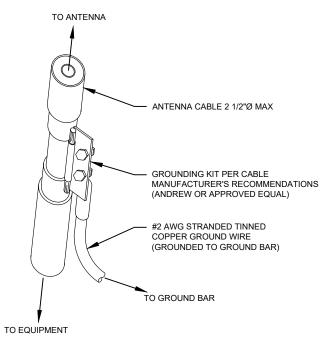
- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- 2. SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING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





#### **GROUND BAR NOTES**

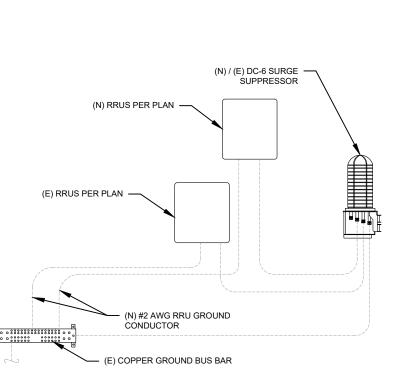
- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S)
- 2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.



- GROUND 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.





# (N) RRU (TYP.) (N)/(E) AT&T SURGE SUPPRESSOR PER ARRAY (N) 1/2" COAXIAL CABLE SECURED WITH APPROVED ATTACHMENTS (TYP.) (N) GROUNDING KIT, GROUND TO EXISTING GROUND BAR(S) AT ANTENNA LEVEL (TYP.)

RRU GROUNDING SCALE: N.T.S.

00000 00000 0 0 0 1/4" X 4" X 6" GROUND BAR (ERICO P/N: EGBA14406CC OR EQUAL) TWO-HOLE LUG, TO BE USED WITH #2 AWG BCW (LOWER TOWER GROUND BAR ONLY)

3/8" SS LOCK WASHER

(EACH SIDE)

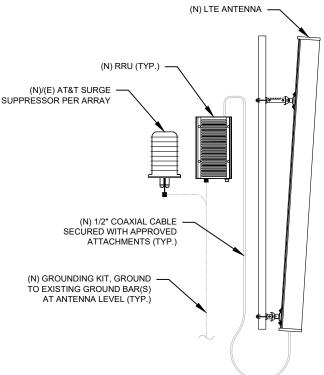
#### **GROUND BAR NOTES:**

3/8" X 1-1/2" SS BOLT

(EACH SIDE)

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

**TOWER GROUND BAR DETAIL** 



ANTENNA/RRU GROUNDING



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ITRACTOR SERVICES ARE PROVIDED BY TEP OFOO LLC, A DELAW
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TEP LABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN

REV.	DESCRIPTION	BY	DATE
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DATE DRAWN:	04/24/25
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CUSTOMER ID:	SINC007003

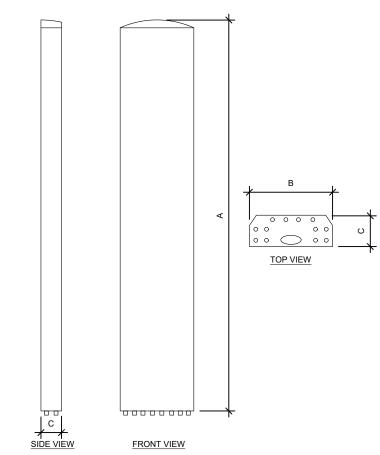
**GROUNDING DETAILS** 

SHEET NUMBER:

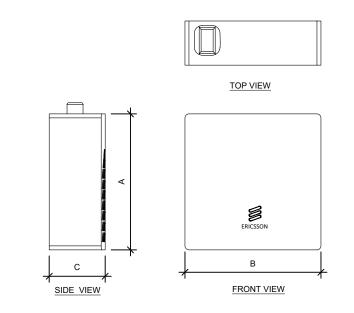
E-501

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	SPECIFICA	TIONS		
RRU MODEL	A	В	С	WEIGHT (LBS)
4490 B5/B12A	20.6"	15.6"	7.0"	65.0

SUPPLEMENTAL

SHEET NUMBER:

REVISION: R-601

EQUIPMENT SPECIFICATIONS
SCALE: N.T.S.

## 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 FEATURE	s
Nominal System Voltage	-48 VDC or +24 VDC
Centrol	NCU controller
RATED OUTPUT CAPACITY - I	MAXIMUM CONFIGURATION
System	525 amps at -48 VDC plus redundancy 400 amps at +24 VDC plus redundancy
Distribution Panel	Top: Wired for (16) +24 V and (13) -48 V bullet positions Bottom: (30) -48 V bullet positions
ENVIRONMENTAL	
	-40 °F to 115 °F (-40 °C to 46 °C) continuous operation
Humidity	0 to 95%, non-condensing
THERMAL SOLUTIONS	
Power Chamber	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	
	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
	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	Vertly 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

		F <b>3</b>
AT&T NUMBER	VERTIV NUMBER	DESCRIPTION
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 retrolit
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)
		48 V SAFT battery string, 80-94743-01, 38 X TelX 180 NiCd

48 V SAFT battery string, 80-94743-01, 38 X TelX 180 NiCd NFQ14983 N/A (not supplied by Vertiv; sourced through EPL)

 $\underline{\mathsf{NOTE:}}$  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

VERTIV.



# 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.

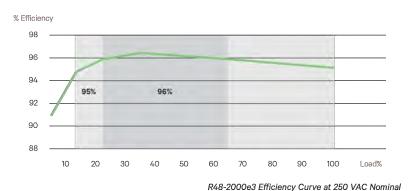
In addition to reducing power consumption and lowering operating cost, eSure™ high-efficiency rectifiers offer superior performance and uncompromised reliability.

#### **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.

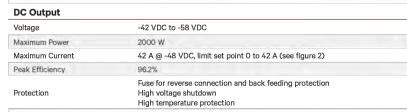




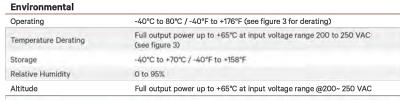
## **Technical Specifications**

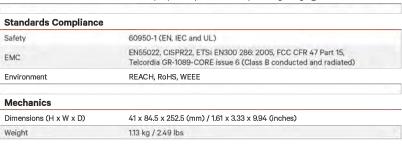
eSure™ Rectifier

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









# **Figures**

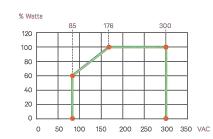


Figure 1: Output Power vs. Input Voltage and Vo > 48 V at Tamb <55°C

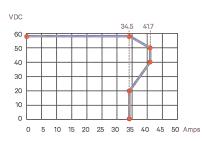


Figure 2: Output Voltage vs. Output Current at Maximum Output Power 2000 W

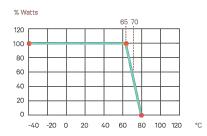


Figure 3: Output Power vs. Temperature at Uin > 200VAC

#### **Ordering Information**

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

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R48-2000E3 (R06/20)

SUPPLEMENTAL

SHEET NUMBER:

REVISION

PROPOSED -48V RECTIFIER DETAIL

SCALE: N.T.S



# Vertiv<sup>™</sup> eSure<sup>™</sup> Converter



# **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 eSure<sup>TM</sup> power extend converters.

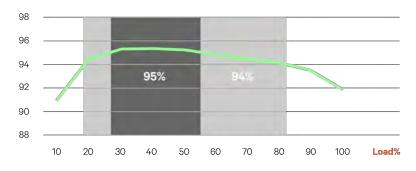
#### Description

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**

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

#### **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	

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C48/58-2000P3 (02/2024)

# **Figures**

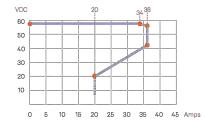


Figure 1: Output Voltage vs. Output Current at Maximum peak Power 2000 W

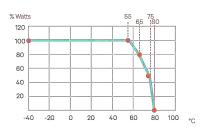


Figure 2: Output Power vs. Temperature at -41VDC≥Vin ≥ -58VDC

**SUPPLEMENTAL** 

SHEET NUMBER:

R-604

04

1)-

PROPOSED -48/-58V DC CONVERTER DETAIL

# Vertiv<sup>™</sup> NetSure<sup>™</sup> Converter System



-48V DC to -58V DC

## **Benefits**

#### Modular design

Provides for system redundancy and easy expansion of operating capacity in small increments

#### Expandable

Optional converter shelves and distribution panel allow for system growth as site needs dictate

#### Hot insertion capability

Allows for system expansion without disruption

#### **Surge Protection**

Built-in surge protection protects equipment from damages

#### **Load Shedding**

Optional load disconnect contactor allows for shedding non-critical loads

#### **Standard Features**

- Safety compliance NEBS, UL
- Nine (9) Form-C alarm outputs
- Current limiting
- Over-voltage protection
- Over-temperature protection
- Load sharing for parallel operation
- Easily accessible input and output connections for simplified
- Emergency Power Off

The Vertiv<sup>™</sup> NetSure<sup>™</sup> Converter System is ideal for powering remote radios over long cable lengths.





#### Description

The Vertiv<sup>™</sup> NetSure<sup>™</sup> Converter System provides up to 600 amps at -58 volts DC via high frequency switch mode converters, each rated at 2000 watts peak, 1600 watts average. The modular design allows the converter's capacity to expand as your system expands. The base system can accept eleven individual, plug-in converter modules that can be easily installed live without system interruption. Up to two six-expansion converter shelves can be added for increased capacity.

The distribution panel is available with four large GJ/218 type circuit breaker positions or twenty-six bullet type device positions. The large positions accommodate up to a 250 amp breaker per position and up to an 800 amp breaker in four positions. The bullet type panel accommodates devices from 1 amp to 300 amps. A second 26-position bullet type panel can be added for expansion.

The NetSure NCU controller provides system management, monitoring and alarming.

#### Application

The Vertiv™ NetSure™ Converter System is compact and easy to expand, making it ideal for radio base station sites requiring -58 VDC output.

## **Ordering Information**

Part Number	Model Number	Description
58464100001	DCS48/58-600	Converter System, (26) Bullet Positions, without Contactor
58464100002	DCS48/58-600	Converter System, (26) Bullet Positions, with Contactor
58464100003	DCS48/58-600	Converter System, (4) GJ/218 CB Positions, without Contactor
58464100004	DCS48/58-600	Converter System, (4) GJ/218 CB Positions, with Contactor
58464100010	DCS48/58-600	Expansion Converter Shelf, six positions
584641000AL	DCS48/58-600	Expansion Distribution Panel, (26) Bullet Positions, without Contactor
584641000CL	DCS48/58-600	Expansion Distribution Panel, (26) Bullet Positions. with Contactor
1M830BNA10044525	M830B	NCU Controller, 10044525 Configuration
1C48582000P3	C48/58-2000P3	eSure DC/DC converter, -48VDC to -58VDC, 2000 watts Peak

# Vertiv<sup>™</sup> NetSure<sup>™</sup> Converter System



C48/58-2000P3 Converter Module

# **Technical Specifications**

Input		
Voltage	-48.0 volts DC nominal, with range of -41.0 to -58.5 volts DC	
Current	41.9 amps maximum (at full load for one module, -41VDC input)	
Circuit Protection	Fuse is located in the negative input lead of each converter module	
Filtering	Noise reflected back to the battery is less than 38dBrnC and is within the parameters set forth in Telcordia technical reference TR-TSY-000009, using test measurements in PUB43802, pages 5 and 6	
Efficiency	95.6% peak	
Output		
Voltage	-56.0 VDC to -58.0 VDC adjustment range	
Current	26-position Bullet Panel = 400 amps 4-position GJ/218 Breaker Panel = 600 amps	
Regulation	Steady state output voltage remains within ±1% of the pre-adjusted voltage	

Dynamic Response	For a step load change of 25%, the maximum voltage transient will not exceed 5% of the initial steady state voltage
Filtering	Wide band noise does not exceed 250 mV peak to peak over the frequency range of 1 Hz to 100 MHz. Wide band noise does not exceed 20 mV rms over the frequency range of 25 Hz to 20 kHz.
Protection	
Overvoltage	Two independent over-voltage shutdown circuits are included in each convert- er module. 1) Settable via NCU controller from -56V to -59V. 2) Backup (hardware employed) at -59.5VDC
	When the output current of a DC-DC converter module increases to a value set via the NCU
Overcurrent	controller between 10% to 100% of rated full load, the output voltage of the module will automatically decrease to limit current to this value. The output

any load current from no load to full load and over the specified input voltage

will recover to within specified limits when the overload condition is removed.

Each DC-DC converter module will automatically shut down if the internal tem-

perature of the module exceeds a predetermined value. Operation will

automatically resume after the over-temperature condition is removed.

Environmental	
Operating Temperature	-40°C to +65°C (-40°F to +149°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	0% to 95% relative humidity, non-condensing
Altitude	Maximum operating ambient temperature should be derated linearly (3°C per 1000 ft.) at elevation above 6562000 ft.
Audible Noise	The audible noise at 1 meter shall not exceed 560dB-A per ANSI \$1.4.
EMI/RFI Suppression	This unit conforms to the requirements of FCC Part 15, Subpart B, Class B; EN55022, Class B for radiated and GR-1089 CORE for conducted noise.

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DC-00144 (02/24)

Over Temperature

**SUPPLEMENTAL** 

R-605

PROPOSED -58V NETSURE CONVERTER UPGRADE KIT DETAIL



tion to view product weep page



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.

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

#### **Features and Benefits**

- Capacity range 31-190Ah
- 12V monobloc configurations
- Multiple string configurations available
- Two year shelf life

#### Construction

- Robust positive plates are designed to prolong service life and enhance corrosion resistance
- 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

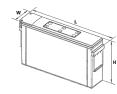
#### **General Specifications**

	Nominal Ca	pacity (Ah)			Nominal D	imensions			Weight - V	olumes	
Cell Type	10 hr rate to 1.80Vpc @20°C	8 hr rate to 1.75Vpc @77°F	Ler	ngth mm	in Wi	idth mm	He in	ight mm	Unpa Ibs	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

- SR4228 compliant
- Proven long service life
- . High energy density and cycling capability

connect@alpinepowersystems.com 877-993-8855

# **Battery Services for Backup Power**

- Battery Installation
- Capacity and Acceptance
- · Preventative Maintenance

backup power Itelecom: motive power www.alpinepiowersystems.com



**SUPPLEMENTAL** 

SHEET NUMBER:

REVISION:

PROPOSED 170AH BATTERY DETAIL

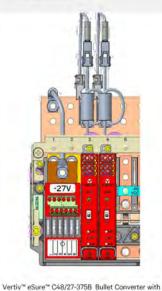
# +27 VDC Vertiv<sup>™</sup> eSure<sup>™</sup> Bullet Converter



C48/27-375P

#### Benefits

- Instantly supply power to remaining +24 VDC eSure loads by plugging this device directly into the existing distribution panel
- Leverage room for revenue generating equipment since additional rack space is not used
- Avoid adding a separate bulk or multi-output converter shelf
- Achieve conversion efficiency greater than 95%
- Use the existing load cables
- Ideal for upgrading legacy DC power plants



+27 VDC Bullet Nose 6-Position GMT Fuse Board Kit

The +27 VDC Vertiv™ eSure™ C48/27-375B Bullet Converter is a 375W, +27VDC output converter with bullet terminals designed to provide +27 VDC power output to remaining

Ideal for networks transitioning from LTE or earlier

architectures to 5G.

Description

+24 VDC Vertiv<sup>™</sup> eSure<sup>™</sup> loads after converting the primary -48 VDC/+24 VDC power system to a -48 VDC Vertiv<sup>™</sup> eSure<sup>™</sup>/-58 VDC Vertiv<sup>™</sup> eSure<sup>™</sup> power system. It also functions as an overcurrent protection device for the circuit.

The compact design of the device fits in the palm of your hand and plugs directly into a DC distribution panel in the same position as a bullet circuit breaker. If needed, up to three units can operate in parallel to meet up to 750W of power demand.

The Vertiv™ eSure™ C48/24-375B is equipped with an enable/disable switch, a bi-color LED indicator and an alarm contact. Test points are provided to monitor the output current and an integrated branch circuit rated protection device is included.

The optional, +27 VDC 6-position GMT Fuse Board can be paralleled with the +27 VDC eSure™ Bullet Converter to provide up to (6) GMT load fuse positions. The Fuse board is located in the same panel as the converter and does not require extra space in the rack.

The +27 VDC eSure Bullet Converter maintains +24 V loads, e.g. NID operation through end of battery discharge. It is ideal for upgrading legacy DC power plants to support the increasing power requirements of 5G applications.



+27 VDC Vertiv™ eSure™ Bullet Converter



# **Technical Specifications**

DC Input	C48/27-375B	10062803 (6) Position GMT Fuse Board Kit
Voltage	-42 VDC to -58 VDC, 48 VDC (nominal)	+27 VDC (nominal)
Maximum Current	10 A	27.8 A

#### DC Output

Voltage		+27 VDC
Maximum Power	375 W	750 W @ 40C; 600 W @ 65C
Maximum Current	13.9 A @ +27 VDC	27.8A
Peak Efficiency	95.8%	N/A

#### **Control and Monitoring**

	A single bi-color LED indicates the operating status of the unit:	Blown Fuse Indicator on GMT Fuse
Visual Indications (on front)	<ul><li>Green = Proper operation</li><li>Red = Alarm</li></ul>	
Alarm Contact (on back)	Compatible with Vertiv bulle	et distribution panel
Test Points (on front) Enables output current measurement of the unit		N/A

#### Environmental

Operating Temperature	-40°C to +75°C / -40°F to +167°F	
Storage Temperature	-40°C to +70°C / -40°F to +158°F	
Relative Humidity	0 to 90% non-condensing	
Altitude	-200 to 10,000 feet	

#### **Standards Compliance**

Safety	UL 62368 Recognized Designed to meet GR3108 Class 2, NEBS Level III	The + 27 VDC Bullet Nose 6-Position GMT Fuse Board Kit is constructed of UL Listed or Recognized components. The board is included in the UL File of the compatible UL Listed parent power system into which it is installed.
EMC	FCC CFR 4	7 Part 15 (Class B radiated);
	Telcordi	a GR-1089-CORE Issue 8

#### Mechanics

Dimensions (H x W x D)	107,2 x 18.5 x 109.7 mm / 4.22 x 0.73 x 4.32 inches	100.8 x 38.1 x 82.1 mm / 3.97 x 1.5 x 3.35 inches
Weight	0.45 kg / 1.0 lbs	0.45 kg / 1.0 lbs

#### **Ordering Information**

Description	
Vertiv™ eSure™ C48/27-375B Bullet Converter	
+27 VDC Bullet Nose 6-Position GMT Fuse Board Kit	
	Vertiv™ eSure™ C48/27-375B Bullet Converter

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C48-27-375B (R05/2024)

SUPPLEMENTAL

SHEET NUMBER:

7

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DATA SHEET

DC Surge Protection Solutions DC12-48-60-0-25E Overvoltage Protection & Power Management Junction Box

The DC12-48-60-0-25E is designed to be the most robust and capable surge protector available for distributed antenna systems. The flexible design allows for indoor or outdoor mounting at the base station or centrally located at the top of the tower or rooftop for remote radio (RRH)protection. This model employs patented Strikesorb® 30-V1-HV modules capable of providing 60kA (8/20µs) of surge capacity for up to 12 -48VDC circuits.

# Strikesorb<sup>®</sup>





#### **Features**

- Provides protection for twelve individual radio protection circuits at the base of sites
- Surge protection of 60 kA 8/20 µs
- Maximum impulse current 5kA 10/350 µs
- UL 1449 3<sup>rd</sup> Edition Type 4 protection device
- IEC 61643-1 Class I protection for DC applications
- NEMA 4 rated enclosure
- Form C relay contacts included
- Simplifies inter-connectivity and cable management for DC conductors

#### **Benefits**

- Strikesorb modules are fully Recognized to UL 1449 3rd Edition and IEC 61643-1 Safety Standards, meeting all intermediate and high current fault requirements to facilitate use in original equipment manufacturers (OEM) applications.
- Offers unique maintenance-free protection against direct lightning currents.
- Utilizes a NEMA 4/12 dust-tight rated enclosure, allowing for indoor or outdoor installation on a roof or tower top.



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www.raycapsurgeprotection.com

SPECIFICATIONS

DC Surge Protection Solutions DC12-48-60-0-25E

Overvoltage Protection & Power Management Junction Box

# Strikesork

Model Number		DC12-48-60-0-25E	
CEQ / ANT Number	r	CEQ. 12659	
	evice (SPD) Type to UL	Type 4	
	evice (SPD) Class to IEC	Class I	
Nominal Operating		48V	
	(Lightning) Current [I <sub>imp</sub> ]	5kA 10/350 µs	
	ous Operating DC Voltage [U_]	75VDC	
Nominal Discharge	, , , , , , , , , , , , , , , , , , , ,	20kA 8/20µs	
Maximum Discharg	- 11-	60kA 8/20µs	
Voltage Protection	max	400V	
Voltage Protection		410V	
Suppression Techr	nology	MOV	
Protection Modes:	Normal Mode	-48V to Return	
	Common Mode	Return to Ground	
Mechanical			
(2.25mg) 20 mg	al (Suppression) Method	Compression Lug	
	· · · · · · · · · · · · · · · · · · ·	#14 to #2 AWG [2.5 to 35 mm²]	
CONTICOLOR TOTAL	,	#12 to #2 AWG [4 to 35 mm <sup>2</sup> ]	
Form C Contact Co	onnection (Terminal Block) Hardwired	#22 to #12 AWG [0.34 to 4 mm <sup>2</sup> ]	
Operating Tempera	ature (°C)	-40° C to +80° C	
Storage Temperatu	ıre (°C)	-70° C to +80° C	
Enclosure Type (O	utdoor)	NEMA 4 Rated	
Enclosure Dimensi	on (L×W×H)	24"×24"×8"	
		[609.6×609.6×203.2 mm]	
Weight		56.3 lbs [25.54 kg]	
Additional Feature			
Conduit Fittings		4- 2" Conduit Fittings	
Cable Glands (kit i	ncluded)	4- M63 Cable Glands	
itandards Compil	ance & Certificationh		
Standards	UL 1449 3 <sup>rd</sup> Edition: 2009, IEC 61643-1 IEEE C62.41.2: 2002, EN 61643-11: 20		
Certifications	UL, VDE, CE		
Associations	ANSI, EN, IEC, IEEE, NEC, NEMA		
Product Diagram			
mm] nches	24.0in[650mm] 24.0in[610mm] 24.0in[610mm]		
8.8in[224mm]		640mm]— <b>—</b>	AWG=American Wire Ga
aycap			
	www.raycapsurgeprotection.c	COM	
_			G02 00 267 120



G02-00-267 130322

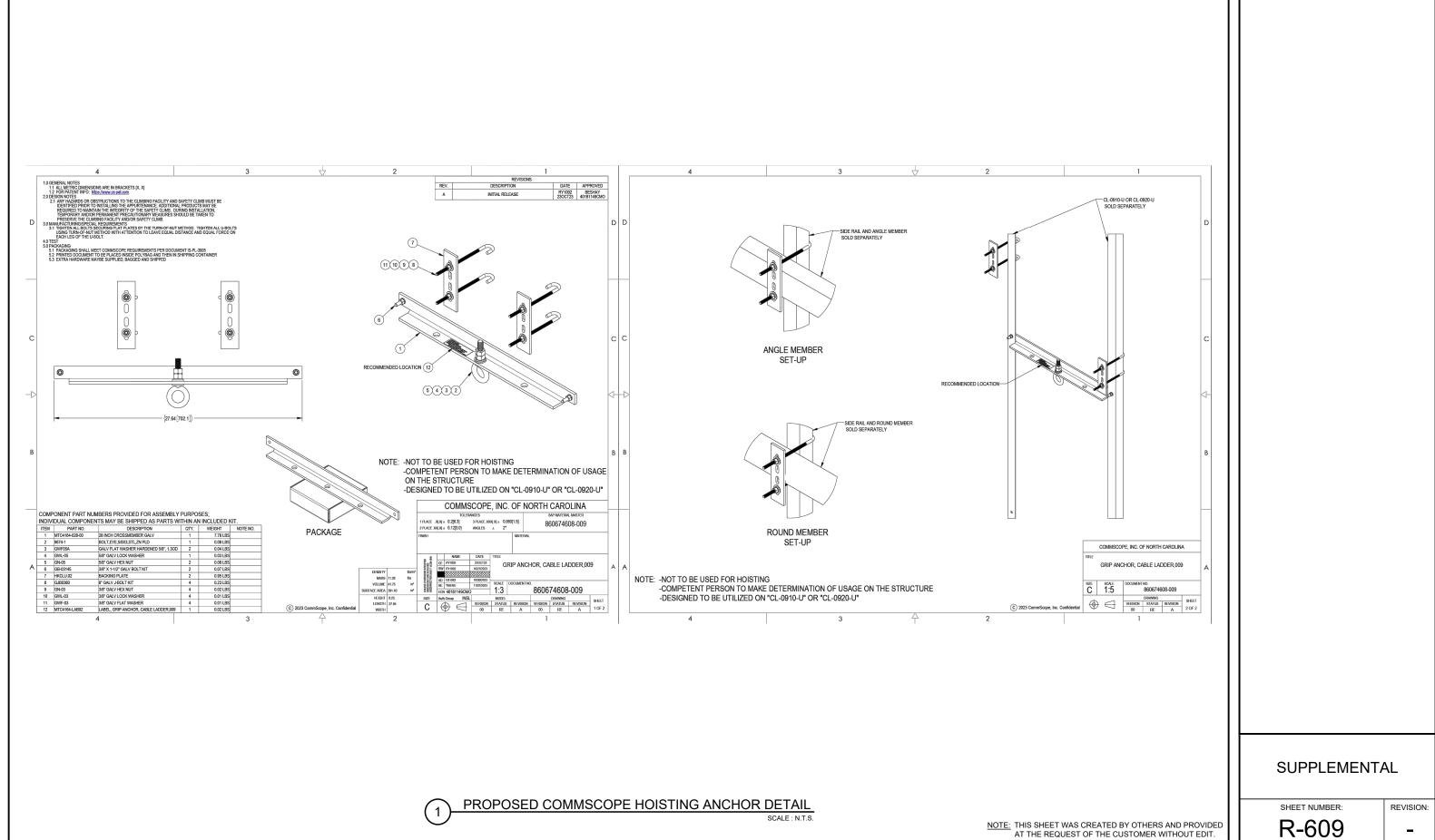
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PROPOSED OUTDOOR DC12 DETAIL

**SUPPLEMENTAL** 

SHEET NUMBER:

R-608



R-609

# 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 **HELIAX® Product Brand** 

**Ordering Note** CommScope® non-standard product

Hoisting grip

# General Specifications

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

Dimensions

Tool Type

Grip Length, minimum 508 mm | 20 in Leader Length, minimum 152.4 mm | 6 in Compatible Diameter, maximum 25.1 mm | 0.988 in Compatible Diameter, minimum 19 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

226.796 kg | 500 lb **Pull Load Capacity** 

# 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

0.3 kg | 0.661 lb Weight, gross

# Regulatory Compliance/Certifications

Classification Agency

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

COMMSCOPE°

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COMMSCOPE®

**SUPPLEMENTAL** 

SHEET NUMBER:

R-610

PROPOSED SITEPRO HOISTING GRIP DETAIL

Page 1 of 2

# 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**

Hoisting grip Product Type **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

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

**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** 

Weight, gross 0.04 kg | 0.088 lb

# Regulatory Compliance/Certifications

Classification Agency

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

COMMSCOPE®

Page 1 of 2

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SCALE : N.T.S.

COMMSCOPE®

**SUPPLEMENTAL** 

SHEET NUMBER:

R-611

PROPOSED COMMSCOPE CABLE HOISTING GRIP DETAIL



Eng. Number 14883118\_C9\_04 March 26, 2025 Page 3

# **Post Modification Mount Analysis Report**

Mount Type : 12 ft T-Frame

ATC Asset Name : Dunn NC 3

ATC Asset Number : 306567

Engineering Number : 14883118 C9 04

Mount Elevation : 231 ft

**Proposed Carrier** : AT&T Mobility

Carrier Site Name : 368-415

Carrier Site Number : WSVWN0055012

Site Location : 2420 Jonesboro Road

Dunn, NC 28334-8845

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

35.3314, -78.5525

County : Harnett

**Date** : March 26, 2025

Max Usage : 89%

Analysis Result : Contingent Pass

Prepared By: Max Carter

Structural Engineer II

Man Carter



Digitally Signed: 2025-04-03

## Introduction

The purpose of this report is to summarize results of the mount analysis performed for AT&T Mobility at 231 ft.

#### **Supporting Documents**

Specifications Sheet:	Pirod 151371, dated January 22, 2022
Mount Modification:	CLS Project #Engineering, dated December 8, 2016
Radio Frequency Data Sheet:	RFDS ID #10040311, dated October 11, 2024
Reference Photos:	Site photos from 2021

# **Analysis**

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

Basic Wind Speed:	120 mph (3-Second Gust)	
Basic Wind Speed w/ Ice:	37 mph (3-Second Gust) w/ 0.60" radial ice concurrent	
Codes:	ANSI/TIA-222-I	
<b>Exposure Category:</b>	С	
Risk Category:	II	
Topographic Factor Procedure:	Method 1	
Feature:	Flat	
Crest Height (H):	0 ft	
Crest Length (L):	0 ft	
Spectral Response:	Sds = 0.16, Sd1 = 0.1	
Site Class:	D - Stiff Soil	
Live Loads:	Lm = 500 lbs, Lv = 250 lbs	

<sup>\*</sup>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 modification per ATC Drawing #14883118\_C9\_04

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

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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.

SUPPLEMENTAL

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