AT&T SITE NAME: 368-754

PROJECT DESCRIPTION: CO-LOCATION ON AN

EXISTING GUYED

TOWER

287' GUYED TOWER TYPE:

SITE ADDRESS: 2135 JOHNSTON COUNTY RD

> **ANGIER, NC 27501** (HARNETT COUNTY)

HARNETT COUNTY JURISDICTION:

AREA OF CONSTRUCTION: 230 ± SQ. FT. (LEASE AREA)

TELECOMMUNICATIONS PRESENT OCC. TYPE:

FACILITY

CURRENT ZONING: UNKNOWN

PARCEL #: 1602-55-5858.000

PROJECT INFORMATION

LATITUDE: N 35° 27' 58.90" (35.4663) LONGITUDE: W 78° 38' 44.20" (-78.6456)

GROUND ELEVATION:

TOWER COORDINATES



LOCATION MAP

DRIVING DIRECTIONS

TAKE 27E FROM BENSON, NC. TURN RIGHT ONTO ABATTIOR RD. AND GO TO THE END. TURN LEFT ONTO JOHNSTON COUNTY RD AND TOWER IS IMMEDIATELY ON LEFT SIDE.



2002 PISGAH CHURCH RD, STE 300 **GREENSBORO, NC 27455**

AT&T SITE NAME: 368-754 AT&T SITE ID: ECL02540 AT&T PACE NUMBER: MRCAR033546, MRVWN006339, MRVWN006341, MRVWN006338. MRVWN006342, MRVWN006340 AT&T FA CODE: 12682186

> USID: 145174 **NSB - GUYED TOWER** LTE 1C/2C/3C/4C/5C/5G NR 1DR-2

AMERICAN TOWER CORPORATION 3500 REGENCY PKWY #100

AT&T MOBILITY 2002 PISGAH CHURCH RD, STE 300

CARY, NC 27518

AARÓN DIAL

(919) 466-5383



AMERICAN TOWER®

ATC SITE NAME: ANGIER **ATC SITE NUMBER: 372926** SITE ADDRESS: 2135 JOHNSTON COUNTY RD **ANGIER, NC 27501** (HARNETT COUNTY)

DESIGN PACKAGE BASED ON RF DATA SHEET RFDS NAME: ECL02540

ISSUED: 9/11/2020 4:33:37 PM DATE UPDATED: 9/21/2020 5:37:00 PM

NUMBER OF SECTORS: 3 NUMBER OF ANTENNAS: 6 NUMBER OF TMAs: 0 **NUMBER OF RRHs: 15** NUMBER OF FIBER/DC SQUIDS: 2 NUMBER OF DC SQUIDS: 0 NUMBER OF FIBER TRUNK CABLES: 2 NUMBER OF DC TRUNK CABLES: 6

THE PURPOSE OF THIS PROJECT IS AS FOLLOWS

TOWER SCOPE OF WORK:

- INSTALL (6) ANTENNAS
- INSTALL (15) RRHs
- **INSTALL (2) SQUIDS**
- INSTALL (2) FIBER TRUNKS
- INSTALL (6) DC TRUNKS

ROUND SCOPE OF WORK:

- INSTALL (1) W.I.C. SHELTER PAD
- INSTALL (1) GENERATOR PAD INSTALL (1) W.I.C. SHELTER
- INSTALL (1) GENERATOR
- INSTALL (1) H-FRAME
- INSTALL METER AND DISCONNECT
- **INSTALL FIBER BOX**

LTE - LTE 1C/2C/3C/4C/5C/5G NR 1DR-2

RFDS DATA

NUMBER OF RF CABLES: 0

SCOPE OF WORK



CITY, STATE, ZIP: GREENSBORO, NC 27455 CONTACT: KEN WELKER **KEN WELKER** (336) 549-9987 (800) 638-2822 SITE CONSTRUCTION MANAGER: 2002 PISGAH CHURCH RD, STE 300 GREENSBORO, NC 27455 CITY, STATE, ZIP: CONTACT: UNKNOWN UNKNOWN **CIVIL ENGINEER:** NAME:

ADDRESS:

TOWER OWNER:

CITY, STATE, ZIP: CONTACT:

APPLICANT/LESSEE:

PHONE:

SITE NAME:

ADDRESS:

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD CITY, STATE, ZIP: RALEIGH, NC 27603 CONTACT: JOHN H. BEST III, P.E. (919) 661-6351

ELECTRICAL ENGINEER:

NAME: ADDRESS:

PHONE:

326 TRYON ROAD CITY, STATE, ZIP: CONTACT: RALEIGH, NC 27603 MARK S. QUAKENBUSH, P.E.

TOWER ENGINEERING

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING

- 1. NORTH CAROLINA BUILDING CODE 4. 2017 NCEC (2018 EDITION)
 2. NORTH CAROLINA CODE COUNCIL
- (2017 NEC & NC ADDENDUM)
 5. LOCAL BUILDING CODE
 6. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

UTILITIES:

POWER COMPANY: CONTACT: PHONE:

SOUTH RIVER EMC CUSTOMER SERVICE (910) 892-8071 METER # NEAR SITE:

TELEPHONE COMPANY: CONTACT: PHONE: PHONE # NEAR SITE: PEDESTAL # NEAR SITE:

SPRINT SPECTRUM L.P. CUSTOMER SERVICE (919) 625-5412 UNKNOWN

PROPERTY OWNER:

NAME: GTP TOWERS VIII LLC 2225 JOHNSTON COUNTY RD CITY, STATE, ZIP: ANGIER, NC 27501

SHEET	DESCRIPTION	RE
T1	TITLE SHEET	0
T2-T6	APPENDIX B	0
N1	GENERAL NOTES	0
SP1	SITE PLAN	0
C1	PROPOSED COMPOUND DETAIL	0
C2	TOWER ELEVATION	0
C3	WIC ELEVATIONS	0
C4A	FOUNDATION DETAILS I	0
C4B	FOUNDATION DETAILS II	0
C5	ICE BRIDGE DETAILS I	0
C6	ICE BRIDGE DETAILS II	0
C7A	GENERATOR SPECIFICATIONS I	0
C7B	GENERATOR SPECIFICATIONS II	0
C7C	GENERATOR SPECIFICATIONS III	0
C8	GENERATOR FOUNDATION & SIGNAGE DETAILS	0
C9	ANTENNA MOUNTING DETAILS	0
C10	SIGNAGE DETAILS	0
E1	ELECTRICAL NOTES	0
E2A	ONE-LINE DIAGRAM	0
E2B	PANEL SCHEDULE	0
E3	SERVICE ROUTING PLAN	0
E4	GROUNDING PLAN	0
E5	GROUNDING DETAILS I	0
E6	GROUNDING DETAILS II	0

INDEX OF SHEETS

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net N.C. LICENSE # P-1403 02-16-2 LOOM CONSTRUCTION 12-28-20 PRFLIMINIARY DATE ISSUED FOR: DRAWN BY: CHECKED BY:

PLANS PREPARED BY:



SHEET NUMBER:

REVISION: 0

TEP#: 55699.245

February 16, 2021

CONTACT INFORMATION

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:	ANGIER					
	INSTON COUNTY RD, ANGIER,	NC			Zip Co	de ²⁷⁵⁰¹
	ed Agent: CHERYL RUSSELL)			Cheryl.Russell@AmericanTower
Owned By:	_	//County		_	□ Sta	te
Code Enforceme	= -	/	County_HAR	NETT	☐ Sta	
Code Emorecine	in varisaretion.		Z. County			
GOVER 1 GET	7					
CONTACT:		Ower Engineering Profe				
DESIGNER Architectural	FIRM	NAME	LICENSE #	TELEPHO ()	NE #	E-MAIL
Civil	Tower Engineering Professionals	John H. Best III	043120	(919)661		jbest@tepgroup.net
Electrical	Tower Engineering Professionals	Mark S. Quakenbush	042109	(919)661	-6351	mquakenbush@tepgroup
Fire Alarm				()		
Plumbing				()_		
Mechanical	ipe					
Structural	ipc					
Retaining Walls	>5' High			()		
Other				()		
("Other" should	include firms and individua	ıls such as truss, p	recast, pre-engine	ered, inter	ior desi	gners, etc.)
2018 NC BUILDING CODE: New Building Addition Renovation 1st Time Interior Completion Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Prescriptive Repair Chapter 14 Alteration: Level I Level II Level III Level III Historic Property Change of Use						
CONSTRU	CTED: (date)	_ CURREN	T OCCUPANC	Y(S) (Ch.	3):	
RENOVAT	ED: (date)	PROPOS	ED OCCUPANO	C Y(S) (Ch	. 3):	
OCCUPANCY CATEGORY (Table 1604.5): Current:						
BASIC BUILDI Construction Ty (check all that ap Sprinklers: Standpipes: Fire District: Special Inspection	ply) ☐ I-A ply) ☐ I-B ☒ No ☐ Partial ☐ Ye ☒ No ☐ Yes ☐ No ☐ Yes	I III Flood Hazard A Yes (Contact th	□ III □ Wet		_	□ V-A □ V-B PA 13D

2018 NC Administrative Code and Policies

		Gross Building Area	a Table
FLOOR	EXISTING (SQ FT)	NEW (SQ1	FT) SUB-TOTAL
3 rd Floor		N/A	
2 nd Floor		N/A	
Mezzanine		N/A	
1st Floor		115 SQ F	FT CONCRETE PAD
Basement		N/A	
TOTAL		115 SQ F	FT CONCRETE PAD
		ALLOWABLE AI	REA
Primary Occupa	ncy Classification(s): Se	elect one Select one S	Select one Select one Select one
Assembly	☐ A-1 ☐ A-2 ☐ A	A-3	
Business			
Educational			
Factory	F-1 Moderate F-	-2 Low	
Hazardous	☐ H-1 Detonate ☐ H	-2 Deflagrate H-3 (Combust H-4 Health H-5 HPM
Institutional	☐ I-1 Condition ☐ 1	\square_2	
	☐ I-2 Condition ☐ 1	$\overline{\square}_2$	
	☐ I-3 Condition ☐ 1	\square_2 \square_3 \square	4
	□ I-4		
Mercantile			
Residential	\square R-1 \square R-2 \square I	R-3 □ R-4	
Storage		S-2 Low High-	niled
Storage	Parking Garage		•
Hility and M	fiscellaneous	open Enclosed	Repair Garage
•	pancy Classification(s):	N/A	
Incidental Uses	(Table 509): N/A		
	apter 4 – List Code Sec	tions): N/A	
•	ns: (Chapter 5 – List Co	,	
Mixed Occupan	ey: 🛛 No 🗌 Ye	es Separation:	Exception:
☐ Non-	Separated Use (508.3) -	The required typ	the building shall be determined by
		applying the	ns for each of the applicable
		occupanci	The most restrictive type of
		constru	all apply to the entire building.
☐ Sepa	rated Use (508.4) - See b	eloy All IV	or each story, the area of the occupancy shall
	be su		os of the actual floor area of each use divided by
	the	′ _V //	each use shall not exceed 1.
Actua	l Area of Occupan	krea o:	f Occupancy $B \leq 1$
	le Area of Occu	Ale Area	of Occupancy B
		70//	
		The required typ applying the occupancir construelor lelor le Area of the Area	+ = <u>≤ 1.00</u>

2018 NC Administrative Code and Policies



0

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.24	REA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}
				~~	
ontage area	increases from Sect	ion 506.2 are	(1, 9))//	

a. Perimeter which fronts a public way

b. Total Building Perimeter

c. Ratio (F/P) =d. W = Minimum width of pub

e. Percent of frontage increa

² Unlimited area applicable under con-

In the building x D (maximum3 stories) (506.2). ³ Maximum Building Area = total numb

⁴ The maximum area of open parking garag control towers must comply with Table 412.1. comply with Table 406.5.4. The maximum area of air traffic

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHZ

	ALEO WADEE HEIGH	
	ALLOWABLE	CODE REFERENCE
Building Height in Feet (Table 504.3)		
Building Height in Stories (Table 504.4)		
¹ Provide code reference if the "Shown on Plans" qua	antity is not by	

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE		RATING	DETAIL#	DESIGN#	SHEET # FOR	SHEET #
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR
	DISTANCE		(W/*	SHF	RATED	PENETRATION	RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
Structural Frame,							
including columns, girders,				0	*		
trusses				~1	9//_		
Bearing Walls			_//.		//		
Exterior			4 , 1				
North			41.1				
East		_//	`````				
West							
South			* Y //				
Interior			$\dot{\circ}$				
Nonbearing Walls and Partitions		1	REDUCTION				
Exterior walls							
North							
East							
West				// `			
South				_			
Interior walls and partitions				70	<i>)</i> //		
Floor Construction					//		
Including supporting beams				\ \'\'			
and joists		_	71.1				
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists			OTABL				
Roof Ceiling Assembly		1	$\mathcal{O}/\!/$				
Columns Supporting Roof		7/ /					
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separati	ion						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

^{*} Indicate section number permitting reduction

2018 NC Administrative Code and Policies



2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

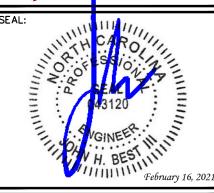
PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 **ANGIER**

> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287' GUYED TOWER

PLANS PREPARED BY: **TOWER ENGINEERING PROFESSIONALS**

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



0	02-16-21	100% CONSTRUCTION
Α	12-28-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: SRZ CHECKED BY:

SHEET TITLE:

APPENDIX B

SHEET NUMBER:

REVISION: 0

TEP#: 55699.24545

2018 NC Administrative Code and Policies

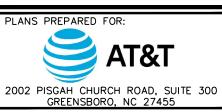
	TERCENTAGE OF WA	ALL OPENING CALCUL	ATIONS
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
		OING	
		\ <u> </u>	
Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Panic Hardware:	PROTECTION (TABLE 705.8) LIE SIP DI CES PAR Yes	REQUIREMENTS	
Life Safety Plan Sheet #:	LIFE SAFETY PLAN R	REQUIREMENTS	
Fire and/or smoke rated w Assumed and real property Exterior wall opening area Occupancy Use for each a Occupant loads for each a Exit access travel distance Common path of travel dia Dead end lengths (1020.4) Clear exit widths for each Maximum calculated occu Actual occupant load for each A separate schematic plan purposes of occupancy se Location of doors with path Location of doors with deach Location of doors with electroaction of doors equipped Location of emergency es The square footage of each	y line locations (if not on the with respect to distance to a rea as it relates to occupant lines (1017) stances (Tables 1006) exit door apant load each exit door layer and the amortromal gress locks (1 d with hole-open devices cape windows (1030)	an accommodate base toor/ceiling and/or roof structure of delay (1010.1.9.7) (1010.1.9.9)	ed on egress width (1005.3)

ACCESSIBLE DWELLING UNITS (SECTION 1107) TOTAL Accessible Accessible TYPE A $\mathsf{TYPE}\, B$ TOTAL MOTABIILDING Units Units ACCESSIBLE UNITS Units REQUIRED PROVIDED PROVIDED PROVIDED TOTAL # OF PARKING CESSIBLE SPACES PROVIDED LOT OR PARKING TOTAL# REQUIRED VAN SPACES WITH ACCESSIBLE 8' ACCESS PROVIDED AISLE TOTAL PLUMBING FIXTURE REQUIREMENTS

(TABLE 2902.1)

	JSE	W	ATERCLOSI	ETS	URINALS		LAVATORIE	S	SHOWERS	DRINKING	FOUNTAINS
		MALE	FEMALE	UNISEX		MALE	FEM	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G						//				
	NEW										
	REQ'D						IDIN				
						7/		y //			
Special :	approval:	(Local .	Jurisdictio	n, Dep	اک	8	C, DI	PI, DHHS	s, etc., des	cribe below	r)
pecial	approval:	(Local .	Jurisdictio	n, Dep	sot!	B	C, DI	PI, DHHS	S, etc., des	cribe below	r)

2018 NC Administrative Code and Policies



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

PLANS PREPARED FOR:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 **ANGIER**

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PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD

RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tèpgroup.net N.C. LICENŠE # P-1403

100% CONSTRUCTION PRELIMINARY 12-28-20 DATE ISSUED FOR: REV

SRZ CHECKED BY: DRAWN BY:

SHEET TITLE:

APPENDIX B

SHEET NUMBER:

0

REVISION:

TEP#: 55699.24545

2018 NC Administrative Code and Policies

ENERGY SUMMARY

ENER	CV	BEO	ппр	FN	IFNT

2018 NC Administrative Code and Policies

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

Existing building envelope complies with code:		mainder of this section is not applicable)
Exempt Building: No Yes (Provide code		
Climate Zone: 3A 4A		7
Method of Compliance: Energy	\$	Prescriptive
A	ance arce here)	Prescriptive
THERMAL ENVELOPE (Prescrip	A Bull Ding	
Roof/ceiling Assembly (each ass		
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	n each assembly:	
, , , ,	reach assembly.	
Exterior Walls (each assembly)		
Description of assembly:		
U-Value of total assembly: R-Value of insulation:		
Openings (windows or doors with	glazing)	
U-Value of assembly:	(gluzing)	
Solar heat gain coefficien	nt:	
projection factor:	<i>// .c</i>	^
Door R-Values:	14.	
Walls below grade (each assembly)	nt: AlAJILDIN (A) (Y)	
Description of assembly:	91.11	
U-Value of total assemb	, ² //	
R-Value of insulation		
Floors over uncondition	(y)	
Description of asso	//	
U-Value of total assex		
R-Value of insulation:		
Floors slab on grade		
Description of assembly:		
U-Value of total assembly:		
R-Value of insulation:		
Horizontal/vertical requirement:		
slab heated:		

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

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

2018 NC Administrative Code and Policies

Importance Factors:	Snow (I _S) Seismic (I _E)
Live Loads:	Roof psf Mezzanine psf
	Floor
Ground Snow Load:	——psi
	psf sic Wind Speed posure Category Y: Sign March March
SEISMIC DESIGN CATEGOR	Y: D
Provide the following Seismic Des Risk Category (Table 16 Spectral Response Acc	sign
Site Classification (ASC	E □C □D □E □F
Data Sor	urce:
Basic structural system	☐ ☐ Dual w/Special Moment Frame
	☐ Building Frame ☐ Dual w/Intermediate R/C or Special Stee
	☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure:	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanic	cal, Components anchored?
LATERAL DESIGN CONTROL	L: Earthquake Wind
SOIL BEARING CAPACITIES	:
Field Test (provide copy	of test report) psf
Presumptive Bearing cap	acitypsf
Pile size, type, and capac	ity

PLANS PREPARED FOR:

AT&T

2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287 GUYED TOWER

PLANS PREPARED BY:



www.tepgroup.net N.C. LICENSE # P-1403

 0
 02-16-21
 100% CONSTRUCTION

 A
 12-28-20
 PRELIMINARY

 REV
 DATE
 ISSUED FOR:

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

APPENDIX B

SHEET NUMBER:

REVISION:

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

winter dry bulb:	
summer dry bulb:	
Interior design conditions	NOT A BUILDING
winter dry bulb:	
summer dry bulb:	\
relative humidity:	, & //
Building cooling load: Mechanical Spacing Conditioning	
Unitary	-5 ~ 5 ~ 5 ~ 5 ~ 5
description of unit:	
description of unit:	
heating efficiency:	
heating efficiency: cooling efficiency:	
heating efficiency:	
heating efficiency: cooling efficiency: size category of unit:	rsized, state reason.:
heating efficiency: cooling efficiency: size category of unit: Boiler	rsized, state reason.:

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code Perf
Method of Compliance: Energy Code Performance: Energy Code Prescriptive ASHRAE 90.1 Prescriptive Prescriptive
Lighting schedule (each fixture type)
lamp type required in fixtur
number of lamps in fixtuballast type used in the
number of ballasts
total wattage per
total interior w wed (whole building or space by space)
total interior was total exterior was
•
Additional Efficiency Package ons (When using the 2018 NCECC; not required for ASHRAE 90.1)
C406.2 More Efficient HVAC Equipment Performance
C400.2 More Efficient HVAC Equipment Performance
C406.4 Enhanced Digital Lighting Controls
C406.5 On-Site Renewable Energy
C406.6 Dedicated Outdoor Air System
C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies



PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

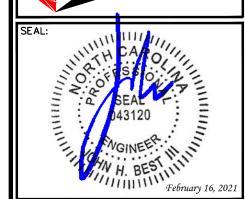
AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287 GUYED TOWER

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603-3530

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



O 02-16-21 100% CONSTRUCTION
A 12-28-20 PRELIMINARY

REV DATE ISSUED FOR:

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

APPENDIX B

SHEET NUMBER:

T-6

REVISION:

TEP#: 55699.245455

2018 NC Administrative Code and Policies

- ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED AT&T OR IT'S DESIGNATED REPRESENTATIVE
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF NORTH CAROLINA.
- THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H. THIS CONFORMS TO THE REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE, 2018 ÉDITION.
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE, 2018 EDITION.
- UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
- ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK. RENTAL CHARGES, SAFETY, PROTECTION AND MAINTENANCE OF RENTED EQUIPMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE AT&T PROJECT MANAGER.
- BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
- THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

- 18. ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.
- 19. TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL CARRY LIABILITY INSURANCE IN THE AMOUNTS AND FORM IN ACCORDANCE WITH AT&T SPECIFICATIONS. CERTIFICATES DEMONSTRATING PROOF OF COVERAGE SHALL BE PROVIDED TO AT&T PRIOR TO THE START OF THE WORK ON THE PROJECT.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.
- THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO SUBSTANTIAL COMPLETION AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH ONE 55 GALLON BARREL, AND TRASH BAGS, AND SHALL REMOVE TRASH, DEBRIS, ETC., ON A DAILY BASIS.
- 23. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS WITH THOSE AT THE SITE. ANY VARIATION WHICH REQUIRES PHYSICAL CHANGE SHALL BE BROUGHT TO THE ATTENTION OF THE AT&T PROJECT ENGINEER FOR FACILITIES/CONSTRUCTION.
- 24. THE CONTRACTOR SHALL GUARANTEE THE WORK PERFORMED ON THE PROJECT BY THE CONTRACTOR AND ANY OR ALL OF THE SUBCONTRACTORS WHO PERFORMED WORK FOR THE CONTRACTOR ON THIS PROJECT. THE GUARANTEE SHALL BE FOR A FULL YEAR FOLLOWING ISSUANCE OF THE FINAL PAYMENT OF RETAINAGE. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER

3500 REGENCY PKWY #100 CARY, NC 27518

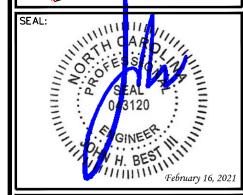
PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287' GUYED TOWER

PLANS PREPARED BY:





LOO% CONSTRUCTION **PRELIMINARY** 12-28-20 DATE REV ISSUED FOR:

SRZ CHECKED BY: DRAWN BY:

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER

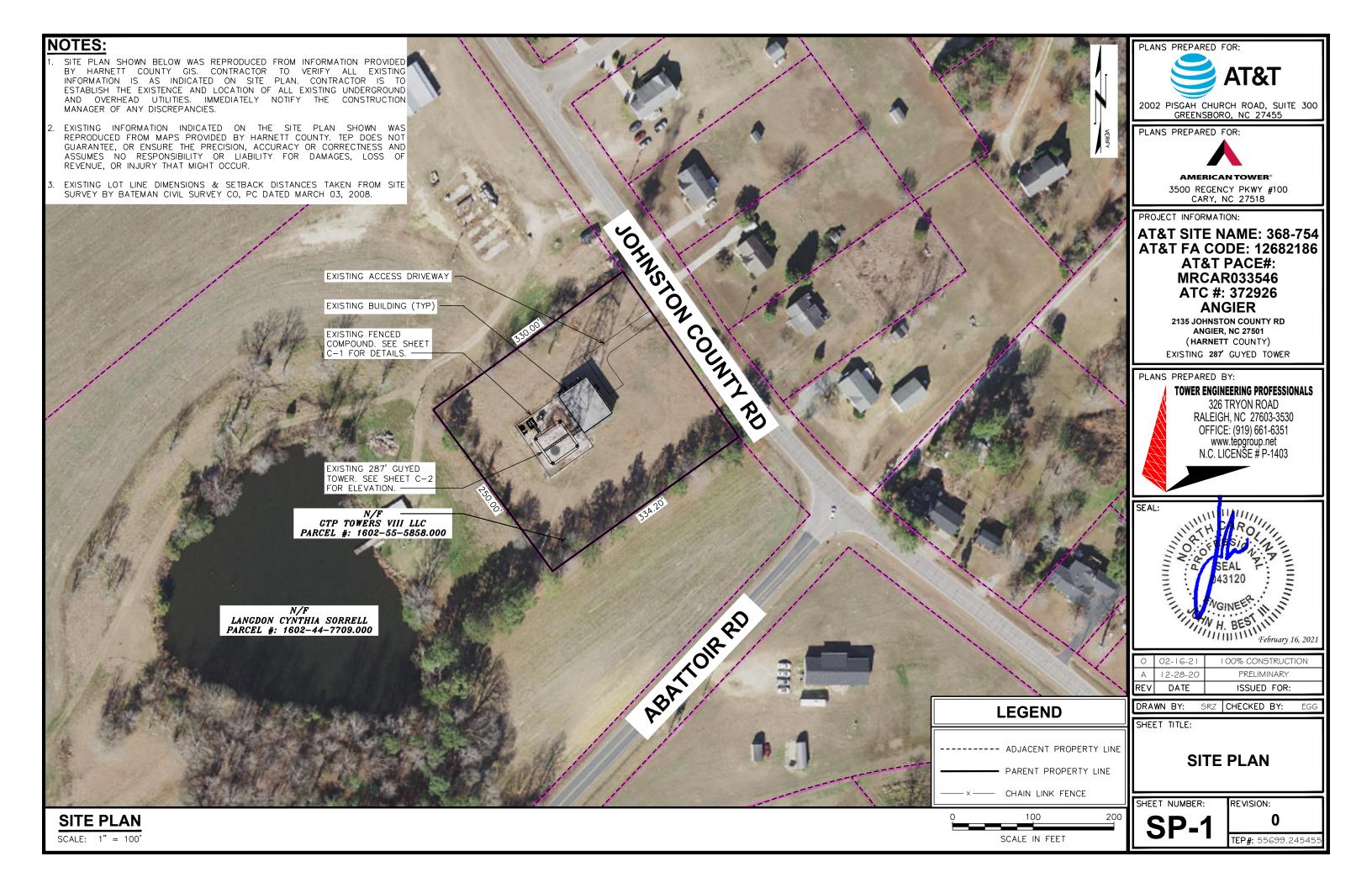
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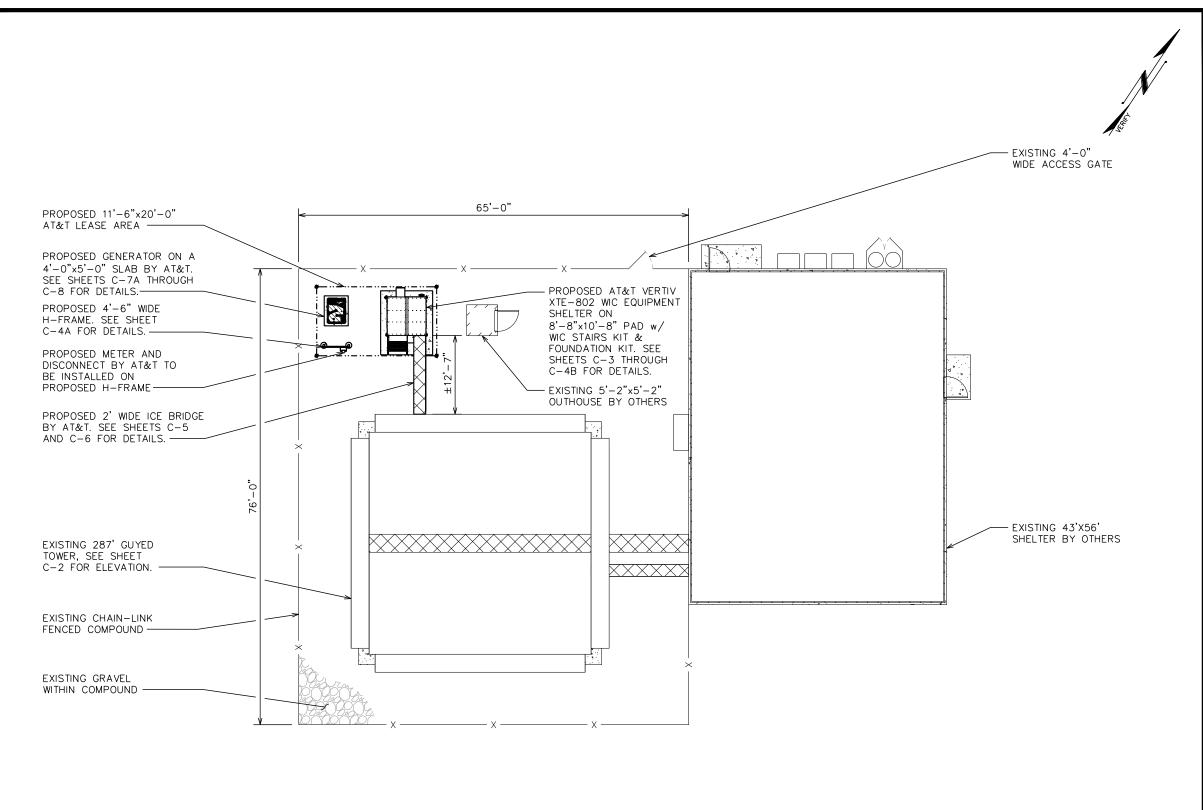
REVISION

TEP#: 55699.24545

0

GENERAL NOTES





PLANS PREPARED FOR:

AT&T

2002 PISGAH CHURCH ROAD, SUITE 300

PLANS PREPARED FOR:



AMERICAN TOWER®

GREENSBORO, NC 27455

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926

> ANGIER 2135 JOHNSTON COUNTY RD ANGIER, NC 27501

(HARNETT COUNTY)
EXISTING 287' GUYED TOWER

PLANS PREPARED BY: TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD

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

SEAL:

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REV	DATE	ISSUED FOR:
Α	12-28-20	PRELIMINARY
0	02-16-21	100% CONSTRUCTION

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

PROPOSED COMPOUND DETAIL

SHEET NUMBER:

REVISION:

O TEP#: 55699.24545

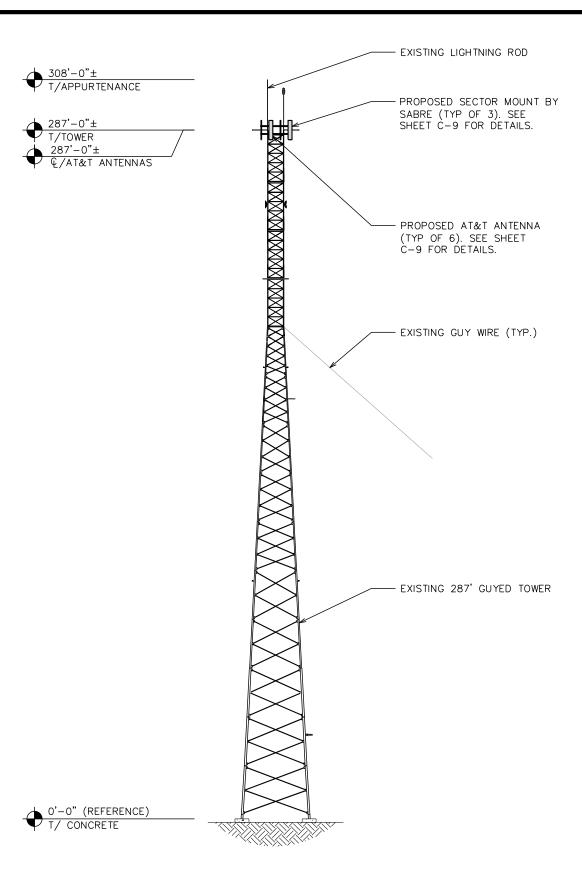
PROPOSED COMPOUND DETAIL

SCALE: 1/16" = 1'-0"

SCALE IN FEET

NOTES:

- PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF STRUCTURAL ANALYSIS.
- 2. TOWER DRAWING IS ONLY A GRAPHIC REPRESENTATION OF THE STRUCTURE. THE ACTUAL TANK IN THE FIELD MAY VARY.



PLANS PREPARED FOR:

AT&T

2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287 GUYED TOWER

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS

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

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February 16, 2021

0	02-16-21	100% CONSTRUCTION
Α	12-28-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:

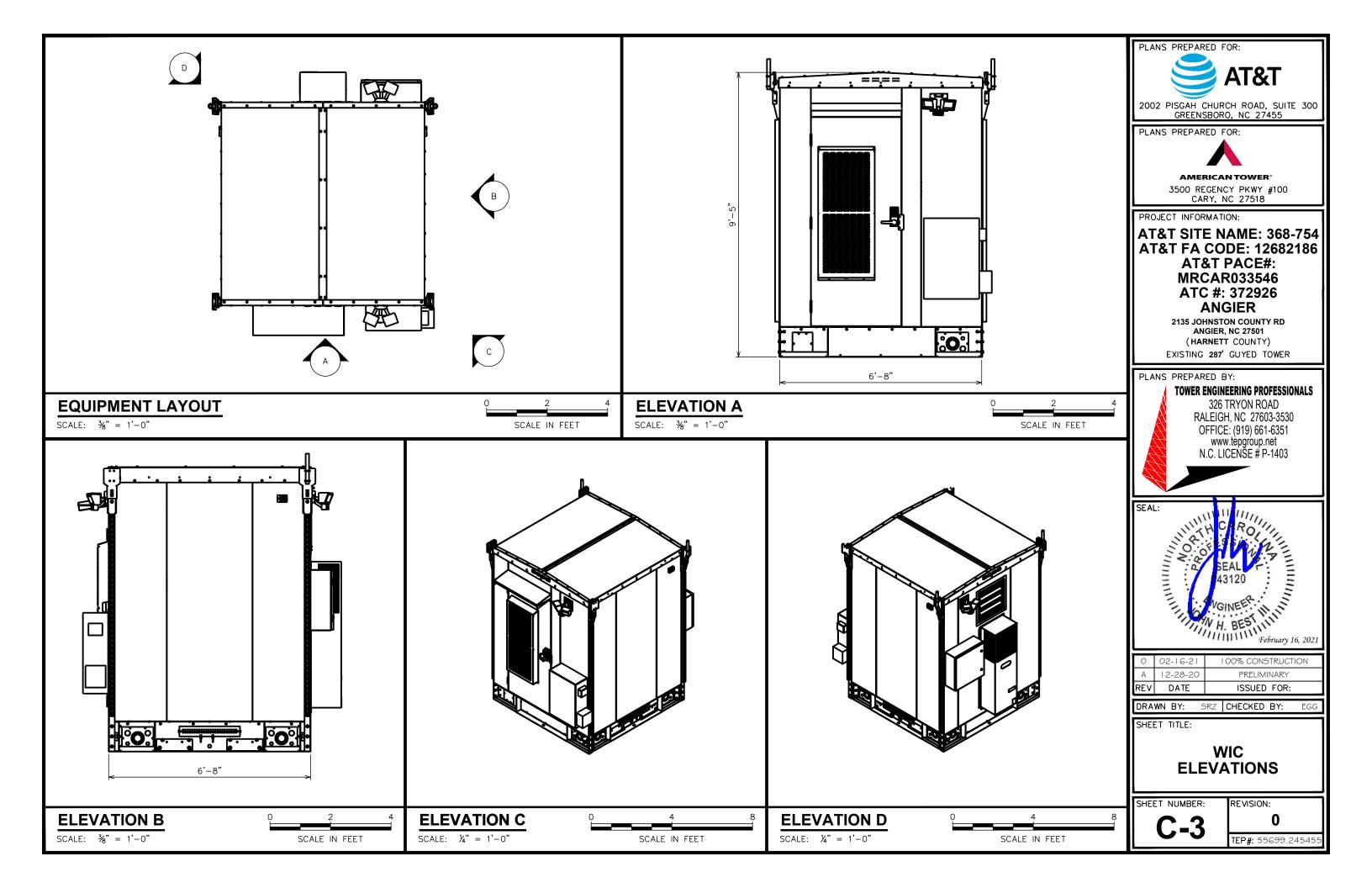
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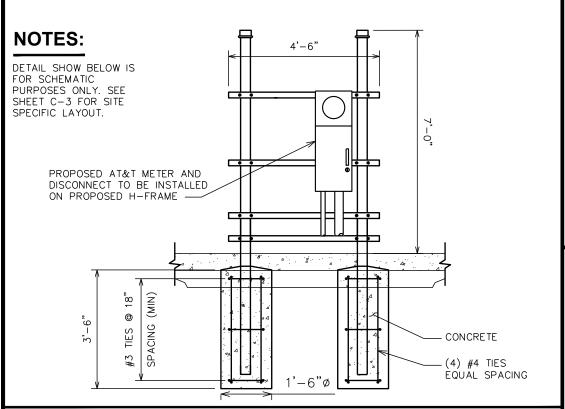
0TEP#: 55699.24545

TOWER ELEVATION

0 40 SCALE IN FEET

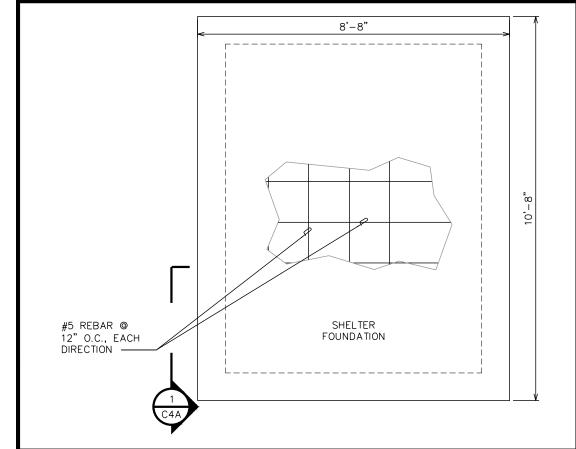
SCALE: 1" = 40'-0"





H-FRAME DETAIL

SCALE: N.T.S.



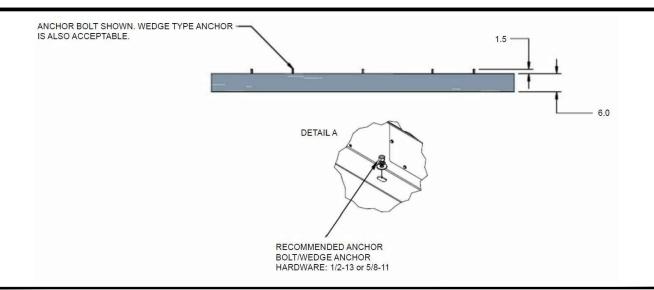
GENERAL STRUCTURAL NOTES:

SPECIFICATION / CODES:

- 1. CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
- 2. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".
- 3. DESIGN SHALL BE PER NORTH CAROLINA BUILDING CODE, 2018 EDITION.

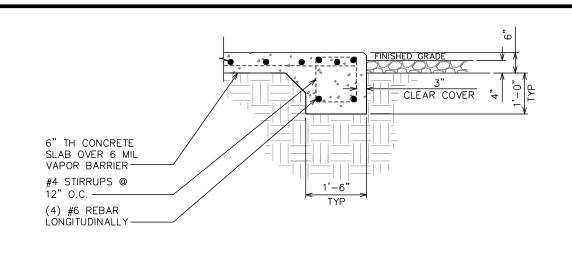
FOUNDATION NOTES:

- 1. FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING CAPACITY.
- 2. CONCRETE SHALL BE 3.000 PSI @ 28 DAYS.
- 3. REINFORCING STEEL Fy = 60,000 PSI.
- 4. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTOR METHOD.
- 5. SURFACE OF FINISHED SLAB SHALL BE LEVEL AND FLAT WITHIN 1/4".
- 6. CONTRACTOR SHALL VERIFY WITH MANUFACTURER ACTUAL DIMENSIONS OF EQUIPMENT PRIOR TO LAYING OUT FOUNDATION.
- 7. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACL 318-14



CONNECTION DETAIL

SCALE: N.T.S.



PLANS PREPARED FOR: AT&T

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

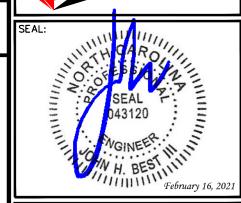
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> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287' GUYED TOWER

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH. NC 27603-3530 OFFICE: (919) 661-6351 www.tèpgroup.net N.C. LICENŠE # P-1403



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SHEET TITLE:

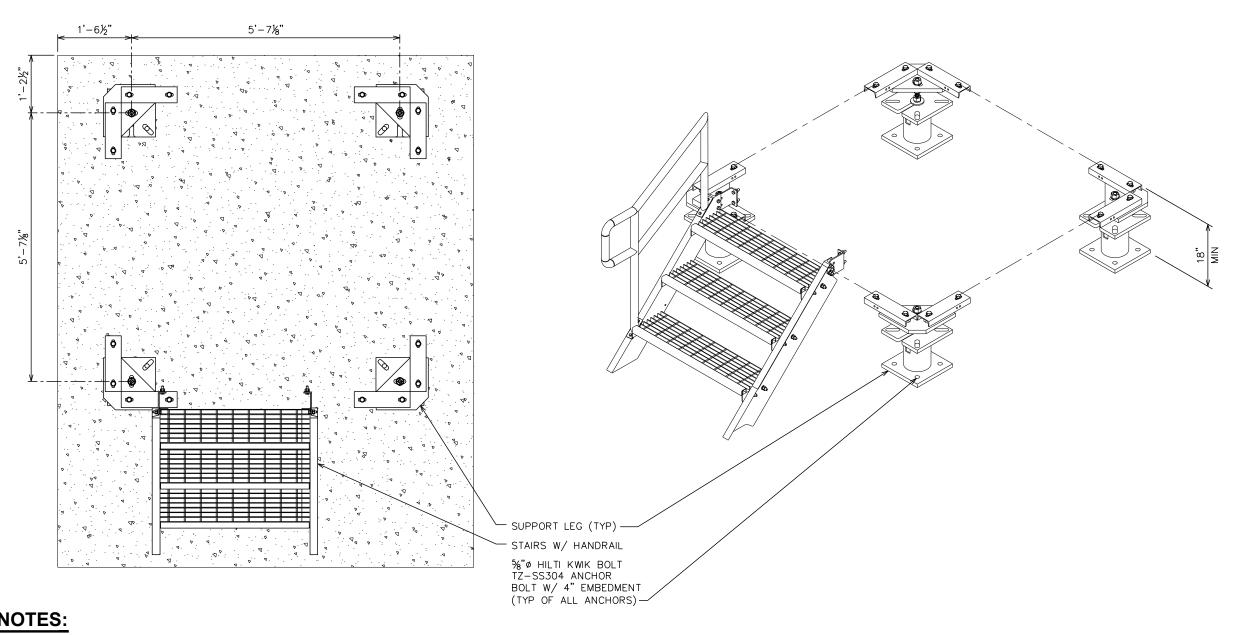
FOUNDATION DETAILS I

SHEET NUMBER

REVISION:

SHELTER FOUNDATION SECTION CUT DETAIL C4A SCALE: N.T.S.

FOUNDATION PLAN



PLANS PREPARED FOR: AT&T

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

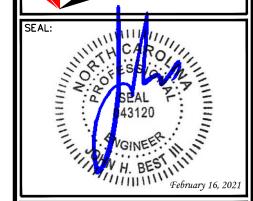
PROJECT INFORMATION:

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> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287' GUYED TOWER

PLANS PREPARED BY: **TOWER ENGINEERING PROFESSIONALS** 326 TRYON ROAD RALEIGH, NC 27603-3530

OFFICE: (919) 661-6351 www.tèpgroup.net N.C. LICENŠE # P-1403



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DRAWN BY: SRZ CHECKED BY:

SHEET TITLE:

FOUNDATION DETAILS II

REVISION:

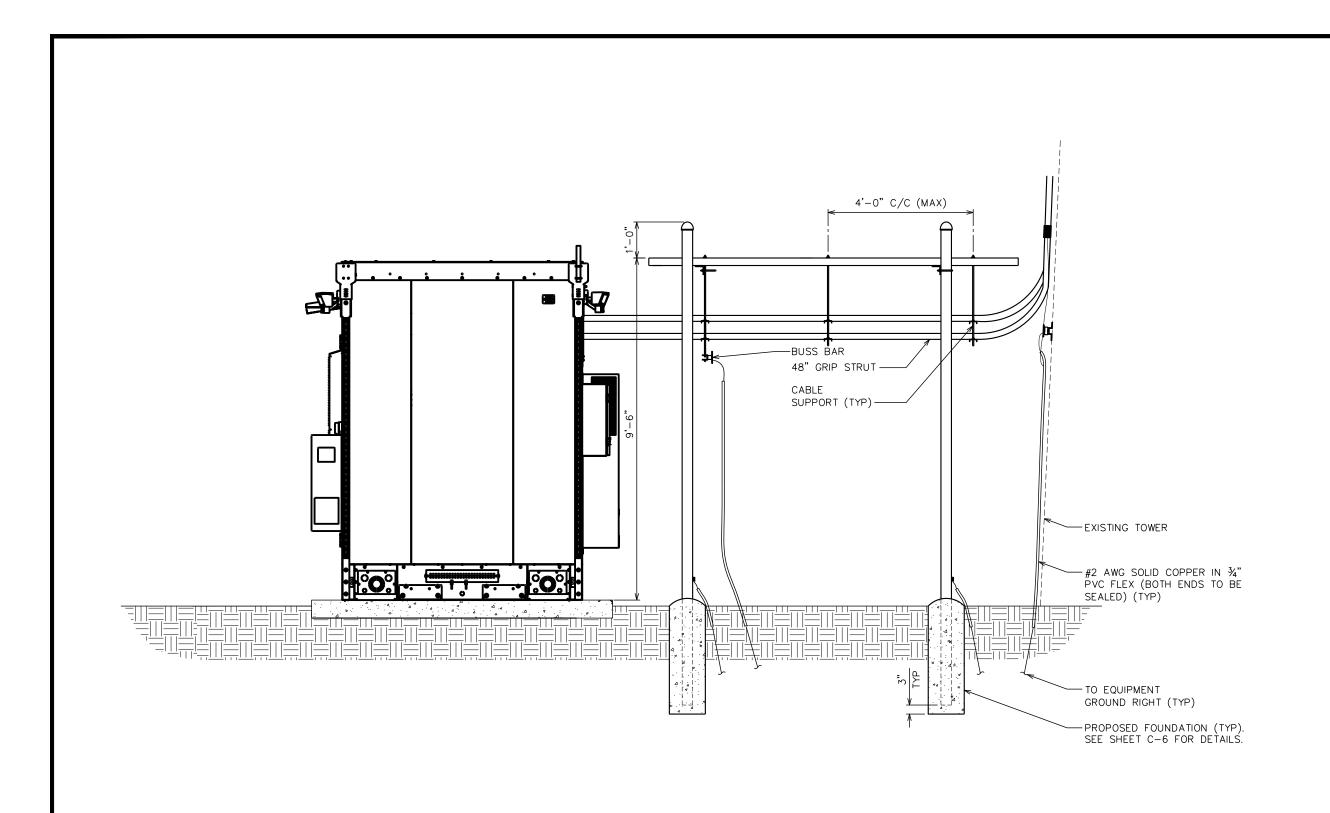
TEP#: 55699.2454

NOTES:

- CONTRACTOR TO REFER TO MANUFACTURER'S SPECIFICATIONS FOR FURTHER DETAILS.
- 2. INSTALL FOUNDATION KIT PER MANUFACTURER'S SPECIFICATIONS.
- 3. CONTRACTOR TO ENSURE MINIMUM 18" CLEARANCE FROM TOP OF FOUNDATION TO BASE OF WIC SHELTER.
- 4. DETAILS SHOWN ON THIS PAGE WERE PROVIDED BY OTHERS AND ARE NOT DESIGNED NOR CARRIED UNDER SIGNATURE AND SEAL OF TOWER ENGINEERING PROFESSIONALS' ENGINEERING SERVICES AND/OR ITS ENGINEERS.

WIC CONCRETE MOUNT FOUNDATION KIT DETAILS

SCALE: N.T.S.





2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

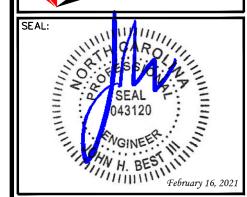
PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 **ANGIER**

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PLANS PREPARED BY: **TOWER ENGINEERING PROFESSIONALS** 326 TRYON ROAD

RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tèpgroup.net N.C. LICENŠE # P-1403



0	02-16-21	100% CONSTRUCTION
Α	12-28-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: SRZ CHECKED BY:

SHEET TITLE:

ICE BRIDGE DETAILS I

SHEET NUMBER:

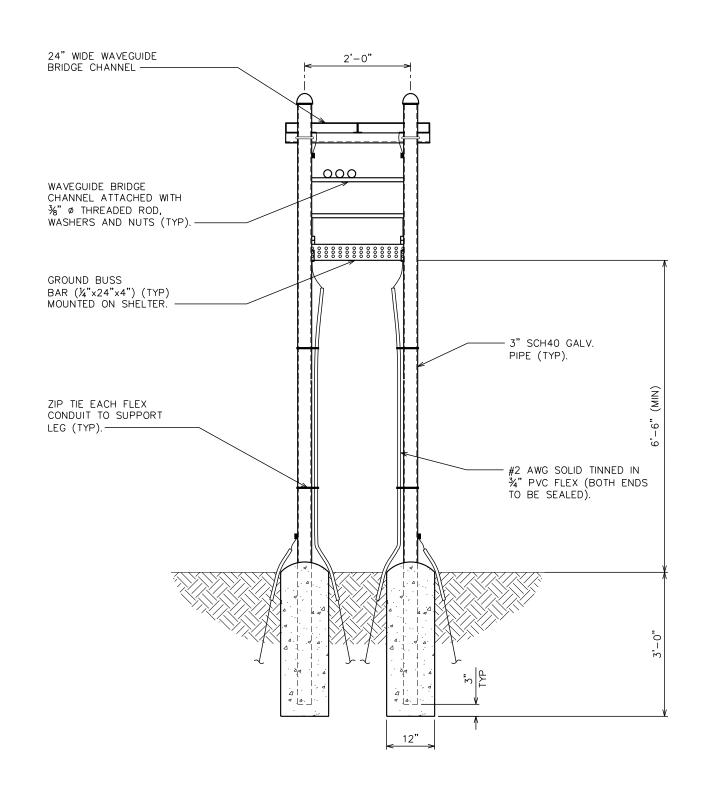
REVISION:

0 TEP#: 55699.24545

ICE BRIDGE DETAILS - SIDE VIEW

SCALE: $\frac{3}{8}$ " = 1'-0"

SCALE IN FEET





PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 **ANGIER**

> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287' GUYED TOWER

PLANS PREPARED BY: **TOWER ENGINEERING PROFESSIONALS** 326 TRYON ROAD

RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tèpgroup.net N.C. LICENŠE # P-1403

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SRZ CHECKED BY: DRAWN BY:

SHEET TITLE:

ICE BRIDGE DETAILS II

SHEET NUMBER:

REVISION:

0 TEP#: 55699.24545

ICE BRIDGE DETAILS - FRONT VIEW

SCALE: $\frac{1}{2}$ " = 1'-0"

SCALE IN FEET

GENERAC INDUSTRIAL

Model G007098-0 (Steel)

EPA Certified Stationary Emergency

Standby Power Rating 20 kW AC, 60 Hz





Image used for illustration purposes only

Codes and Standards

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL489



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1



val Standardic Instituta ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SDC20 | 2.5L | 20 kW - AC INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

Model G007098-0 (Steel)

ENCLOSURE

Gasketed Door

STANDARD FEATURES

- **ENGINE SYSTEM** Oil Drain Extension
- Air Cleaner with Service Indicator
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Exhaust Silencer with Drain
- Factory Filled Oil & Coolant

Fuel System

Primary Fuel Filter

Cooling System

- 120V AC Coolant Heater
- · Closed Coolant Recovery System UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

Electrical System

- Battery Charging Alternator
- · AGM Spill Proof Battery
- Battery Cables
- Sealed/Rubber-Booted Engine Electrical Connec-

Digital H Control Panel - Dual 4x20 Display

Special Applications Programmable PLC

- · Solenoid Activated Starter Motor
- Output Circuit Breaker

CONTROL SYSTEM

Full System Status

Power Output (kW)

All Phase AC Voltage

All Phase Currents

Coolant Temperature

Oil Pressure

Coolant Level

· Engine Speed

Battery Voltage

Power Factor

· 2-Wire Start Compatible

· kW Hours, Total & Last Run

Real/Reactive/Apparent Power

Programmable Crank Limiter

7-Day Programmable Exerciser

BS-232/485 Communications

All-Phase Sensing Voltage Regulato

ALTERNATOR SYSTEM

- Class H Insulation Material
- Vented Rotor 2/3 Pitch
- Skewed Stator
- Amortisseur Winding Brushless Excitation
- Sealed Bearings
- Rotor Dynamically Spin Balanced
- Full Load Capacity Alternator
- Protective Thermal Shutdown

GENERATOR SET

- Single Side Service
- Internal Genset Vibration Isolators
- Separation of Circuits- High/Low Voltage Silencer Heat Shield
- High Heat Wrapped Exhaust Piping

Frequency

- Silencer Enclosed Within Generator
- 5 Year Extended Warranty
- Extended Factory Testing
- 12 Gallon System Spill Containment
- 2.5 Gallon Fuel Fill Spill Containment

Date/Time Fault History (Event Log)

Isochronous Governor Control

· Waterproof/Sealed Connectors

· Audible Alarms and Shutdowns

Not in Auto (Flashing Light)

• E-Stop (Red Mushroom-Type)

Predictive Maintenance Algorithm

Single Point Ground Connections

0.2 msec High Speed Data Logging

15 Channel Data Logging

NFPA110 Level I and II (Programmable)

· Customizable Alarms, Warnings, and Events

· Password Parameter Adjustment Protection

· Alarm Information Automatically Comes Up On the

Auto/Off/Manual Switch

Modbus protocol

Sealed Boards

- · Stamped Air-Intake Louvers Single Door Latch Lockable with Key & Padlock
- Rhino Coat™ Textured Polvester Powder Coat

Serviceable Items Accessible Though Lift-Off Door

· High Performance Sound-Absorbing Material

GENERAC INDUSTRIAL

- 150 MPH Wind Rating
- 36" Snow Rating

FUEL TANK

- UL 142 Compliant
- Double Wall Construction
- Factory Pressure Tested (5 psi)
- Rupture Basin Alarm
- · Fuel Level Gauge and Sender
- Check Valve in Supply Line
- Bhino Coat™ Textured Polyester Powder Coat
- · Stainless Steel Hardware
- Integrated Fork Pockets

· Generator Run- Dry Contact

- Major Alarm- Dry Contact
- Minor Alarm- Dry Contact
- Low Fuel Alarm- Dry Contact
- Rupture Basin Alarm- Dry Contact
- Alarms & Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During
- Alarms and Warnings Spelled Out (No Alarm Codes)

Alarms

MODEL OPTIONS CONTROL SYSTEM

- O 21 Light Annunciator- Shipped Loose Kit and Field
- O External E-Stop-Shipped Loose Kit and Field

- Field Installed

TANKS

External Fuel Vent- Shipped Loose Kit and Field

- Alarms & Warnings for Transient and Steady State
- Alarms & Warnings

100% CONSTRUCTION PRELIMINARY 12-28-20 ISSUED FOR: REV DATE DRAWN BY:

PLANS PREPARED FOR:

PLANS PREPARED FOR:

PROJECT INFORMATION:

PLANS PREPARED BY:

AT&T

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

AMERICAN TOWER*

3500 REGENCY PKWY #100 CARY, NC 27518

AT&T SITE NAME: 368-754

AT&T FA CODE: 12682186

AT&T PACE#:

MRCAR033546

ATC #: 372926

ANGIER

2135 JOHNSTON COUNTY RD

ANGIER, NC 27501

(HARNETT COUNTY)

EXISTING 287 GUYED TOWER

TOWER ENGINEERING PROFESSIONALS

326 TRYON ROAD

RALEIGH. NC 27603-3530

OFFICE: (919) 661-6351

www.tèpgroup.net

N.C. LICENSE # P-1403

SRZ CHECKED BY:

WAY H. BESINI

SHEET TITLE:

GENERATOR SPECIFICATIONS I

REVISION:

February 16, 2022

GENERATOR SPECIFICATIONS

O Aluminum Enclosure

ENCLOSURE

O Extreme Cold Weather Kit - Shipped Loose Kit and

SHEET NUMBER:

SDC20 | 2.5L | 20 kW - AC INDUSTRIAL DIESEL GENERATOR SET

GENERAC* INDUSTRIAL POWER

Model G007098-0 (Steel)

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

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G	ρr	191	าลเ

Make	Mitsubishi	
EPA Emissions Compliance	Interim Tier 4	
Cylinder #	4	
Туре	In-Line	
Displacement - L (Cu In)	2.5 (158)	
Bore - mm (in)	88 (3.5)	
Stroke - mm (in)	103 (4.1)	
Compression Ratio	22:1	
Intake Air Method	Naturally Appirated	

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	± 0.25%

Lubrication System

Oil Pump Type	Trochoid Gear Pump
Oil Filter Type	Filtering Paper, Full Flow
Crankcase Capacity - L (qts)	6.5 (6.9)

Cooling System

Cooling System Type	Forced Circulation
Water Pump Type	Centrifugal Pump
Fan Type	Pusher
Fan Speed (rpm)	2100
Fan Diameter - mm (in)	431.8 (17)
Coolant Heater Wattage	1000
Coolant Heater Voltage	120

Fuel System

Fuel Type	Ultra Low Sulfur Diesel #2
Fuel Specifications	ASTM
Fuel Filtering (microns)	6
Fuel Inject Pump Make	Bosch
Injector Type	Engine Driven Gear
Engine Type	Diesel
Fuel Supply Line - mm (in.)	6.6 (0.26)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	12V-50A
Battery Size	650 CCA
Battery Group	35
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	Mecc Alte ECP 28-2L/4
Poles	4
Field Type	Revolving
Insulation Class - Rotor	Н
Insulation Class - Stator	Н
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<45
Standard Excitation	Brushless

Bearings	Dual Sealed
Coupling	Belt, Pulley
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.5%

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

SDC20 | 2.5L | 20 kW - AC

INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

GENERAC* INDUSTRIAL POWER

Model G007098-0 (Steel)

OPERATING DATA

POWER RATINGS

Single-Phase 120/240 VAC @1.0pf 20 kW Amps: 83 Circuit Breaker Size 100A

FUEL CONSUMPTION RATES*

Diesel - gph (lph)		
Percent Load	Standby	
25%	0.74 (2.80)	
50%	0.99 (3.75)	
75%	1.41 (5.30)	
100%	1.90 (7.19)	

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow per Minute	gpm (lpm)	11.9 (45)
Coolant System Capacity	gal (L)	3.5 (13.2)
Heat Rejection to Coolant	BTU/hr	238,200
Inlet Air	cfm (m³/min)	2365 (67)
Max. Operating Ambient Temperature (Before Derate)	°F (°C)	77° (25°)
Maximum Radiator Backpressure	in H ₂ O	0.50

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m3/min)	88 (2.49)

EXHAUST

ENGINE

		Stariuby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	33.5
Piston Speed	ft/min	1220.47
BMEP	psi	96.5

		Ottariaby
Exhaust Flow (Rated Output)	cfm (m³/min)	193 (328)
Max. Backpressure (Post Silencer)	inHg (kPa)	1.38 (4.67)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	928 (497.7)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

PLANS PREPARED FOR:

AT&T

2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

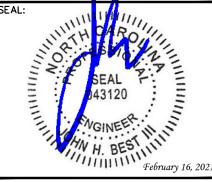
2135 JOHNSTON COUNTY RD
ANGIER, NC 27501
(HARNETT COUNTY)
EXISTING 287' GUYED TOWER

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603-3530

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

N.C. LICENSE # P-14



REV	DATE	ISSUED FOR:
Α	12-28-20	PRELIMINARY
0	02-16-21	100% CONSTRUCTION

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

GENERATOR SPECIFICATIONS II

SHEET NUMBER:

REVISION:

TEP#: 55699.245455

GENERATOR SPECIFICATIONS

SCALE: N.T.

SDC20 | 2.5L | 20 kW - AC INDUSTRIAL DIESEL GENERATOR SET

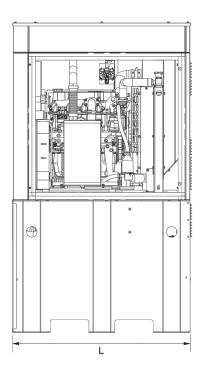
GENERAC | INDUSTRIAL POWER

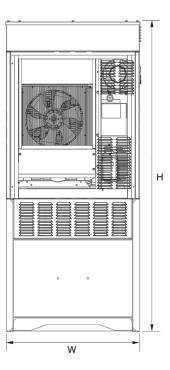
GENERAC* INDUSTRIAL POWER

Model G007098-0 (Steel)

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*





Level 2 Sound Attenuation Enclosure

	Run Time Hours	48	
	Usable Capacity Gal (L)	92 (348.2)	
	L v M v II in /mm)	48 x 36 x 90	
L x W x H in (mm)	(1219.2 x 914.4 x 2286)		
	Weight lbs (kg)	2400 (1089)	
	Cound Lovel	71 dDA	

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. | P.O.Box 8 | Waukesha, WI 53189
P: (262) 544-4811 ©2016 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

Document No. 10000009019 Rev. WIP 11/04/16 9 91

SDC20 | 2.5L | 20 kW - AC INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

______ 3500 RE

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:

PLANS PREPARED FOR:

AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

2135 JOHNSTON COUNTY RD
ANGIER, NC 27501
(HARNETT COUNTY)
EXISTING 287' GUYED TOWER

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS

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

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O 02-16-21 100% CONSTRUCTION
A 12-28-20 PRELIMINARY
REV DATE ISSUED FOR:

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

GENERATOR SPECIFICATIONS III

SHEET NUMBER:

REVISION:

TEP#: 55699.245455

GENERATOR SPECIFICATIONS

SCALE: N.T.S

SPEC SHEET

4'-0"

NOTE:

THESE PLACARDS ARE REQUIRED TO BE INSTALLED ON PROPOSED GENERATOR FREE OF ANY OBSTRUCTION AS TO BE CLEARLY VISIBLE WITHIN COMPOUND



Mobility





FOR FUEL & OTHER ENVIRONMENTAL **EMERGENCIES** CALL EH&S 1-800-566-9347 (1-800-KNOW-EHS)

PLANS PREPARED FOR: AT&T

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 **ANGIER**

2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287' GUYED TOWER

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD

RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tèpgroup.net N.C. LICENŠE # P-1403

0 02-16-21 100% CONSTRUCTIO	ЛΛ

DRAWN BY: SRZ CHECKED BY:

SHEET TITLE:

GENERATOR FOUNDATION & SIGNAGE DETAILS

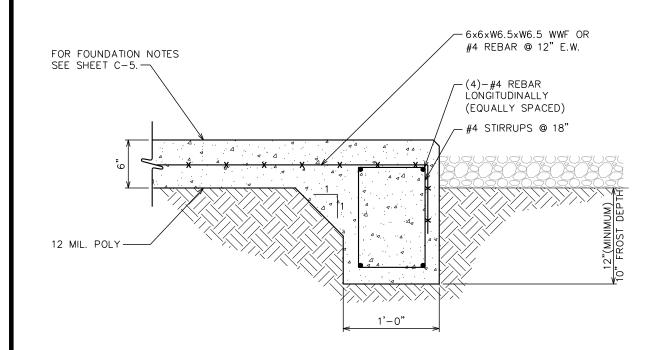
SHEET NUMBER:

REVISION:

0 TEP#: 55699.2454

PROPOSED GENERATOR SIGNAGE

SCALE: N.T.S.

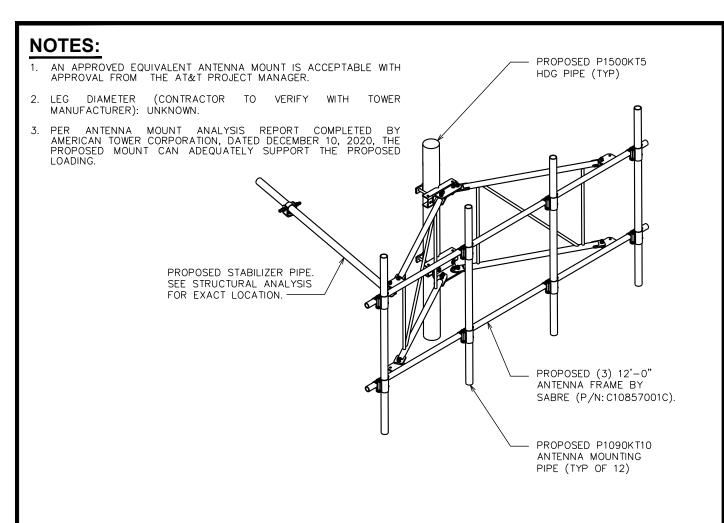


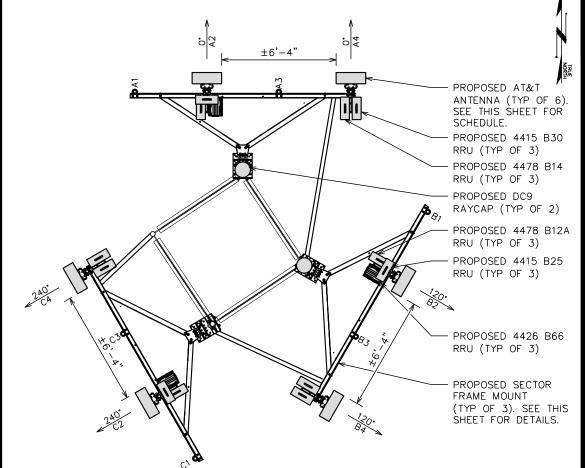


SECTION В SCALE: 1" = 1'-0"

SCALE IN FEET

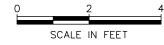
SCALE IN FEET





PROPOSED MOUNT DETAIL

SCALE: $\frac{3}{8}$ " = 1'-0"



PROPOSED ANTENNA ORIENTATION

SCALE: 3/6" = 1'-0"

SCALE IN FEET

GENERAL NOTES:

- 1. THIS ANTENNA ORIENTATION PLAN IS A SCHEMATIC. THE CONTRACTOR SHALL VERIFY TOWER ORIENTATION AND FIELD COORDINATE REQUIRED ADJUSTMENTS TO ACHIEVE THE DESIRED ANTENNA AZIMUTHS.
- 2. ANTENNA CENTERLINE HEIGHT BASED ON TOP OF FOOTING ELEVATION.
- 3. ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
- 4. ALL ANTENNA BRACKETS PER ANTENNA MANUFACTURER, OR EQUAL. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWN TILT WITH AT&T.
- 5. ALL ANTENNA INFORMATION TO BE CONFIRMED WITH AT&T RF DESIGN PRIOR TO INSTALLATION.
- 6. TEP DID NOT PERFORM A STRUCTURAL ANALYSIS ON THE MOUNT OR THE TOWER. IT IS THE CARRIER'S RESPONSIBILITY TO ENSURE MOUNT AND TOWER CAN SUPPORT ADDITIONAL LOADS.
- 7. EXISTING LOADING INFORMATION PROVIDED BY ATC, AT&T RFDS ID: 4153318.
- 8. CABLE LENGTH TAKEN FROM AT&T RFDS. CONTRACTOR TO VERIFY LENGTH PRIOR TO ORDERING MATERIALS.

	PROPOSED ANTENNA/CABLE SCHEDULE												
ANT. MARK	SECTOR	TECH.	STATUS	MANUFACTURER/ MODEL#	DIMS (HxWxD)	AZIMUTH (TN)	RAD CENTER	ELEC. D-TILT	COAX/ CABLE	CABLE LENGTH	SURGE PROTECTION	RRU MODEL	
A2	ALPHA	LTE 700 LTE 1900 LTE AWS 5G AWS	PROPOSED	ACE TECHNOLOGY XXQLH-654L8H8-IVT-V2	H 96.0" W 19.7" D 7.5"	0°	287'	2° 2° 2°	(1) FIBER (3) DC POWER	360'±	(1) DC9-48- 60-24-8C-EV	(1) 4478 B12A (1) 4415 B25 (1) 4426 B66	
Α4	ALPHA	LTE 700 LTE WCS	PROPOSED	ACE TECHNOLOGY XXQLH-654L8H8-IVT-V2	H 96.0" W 19.7" D 7.5"	0°	287'	2° 2°				(1) 4478 B14 (1) 4415 B30	
B2	ВЕТА	LTE 700 LTE 1900 LTE AWS 5G AWS	PROPOSED	ACE TECHNOLOGY XXQLH-654L8H8-IVT-V2	H 96.0" W 19.7" D 7.5"	120°	287'	2° 2° 2°	(1) FIBER (3) DC POWER	360'±	(1) DC9-48- 60-24-8C-EV	(1) 4478 B12A (1) 4415 B25 (1) 4426 B66	
В4	ВЕТА	LTE 700 LTE WCS	PROPOSED	ACE TECHNOLOGY XXQLH-654L8H8-IVT-V2	H 96.0" W 19.7" D 7.5"	120°	287'	2° 2°				(1) 4478 B14 (1) 4415 B30	
C2	GAMMA	LTE 700 LTE 1900 LTE AWS 5G AWS	PROPOSED	ACE TECHNOLOGY XXQLH-654L8H8-IVT-V2	H 96.0" W 19.7" D 7.5"	240°	287'	2° 2° 2°				(1) 4478 B12A (1) 4415 B25 (1) 4426 B66	
C4	GAMMA	LTE 700 LTE WCS	PROPOSED	ACE TECHNOLOGY XXQLH-654L8H8-IVT-V2	H 96.0" W 19.7" D 7.5"	240°	287'	2° 2°				(1) 4478 B14 (1) 4415 B30	

PROPOSED ANTENNA/CABLE SCHEDULE

SCALE: N.T.S

PLANS PREPARED FOR: AT&T 2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455 PLANS PREPARED FOR: AMERICAN TOWER* 3500 REGENCY PKWY #100 CARY, NC 27518 PROJECT INFORMATION: AT&T SITE NAME: 368-754

AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287 GUYED TOWER

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS

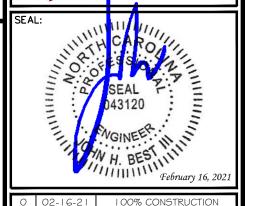
326 TRYON ROAD

RALEIGH, NC 27603-3530

OFFICE: (919) 661-6351

www.tepgroup.net

N.C. LICENSE # P-1403



0	02-16-21	100% CONSTRUCTION
Α	12-28-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

ANTENNA MOUNTING DETAILS

SHEET NUMBER:

REVISION:

property of



AUTHORIZED PERSONNEL ONLY!

In case of emergency or prior to performing maintenance on this site, call 1-800-638-2822 and reference cell site number:

1) WHITE/BLUE BACKGROUND W/ BLACK LETTERING QUANTITY: (1)

SIZE: 9"X12"

(TO BE MOUNTED ON EQUIPMENT SHELTER DOOR ADJACENT TO COMPOUND ENTRY - SEE

DO NOT CLIMB TOWER WITHOUT OWNER'S WRITTEN PERMISSION

3 WHITE BACKGROUND W/ RED LETTERING
QUANTITY: (1)

(TO BE MOUNTED AT EYE LEVEL ON TOWER NEAR SAFETY CLIMB)

NOTICE



Radio Frequency fields beyond this point may exceed the FCC general public exposure limit.

OBEY ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RADIO FREQUENCY ENVIRONMENTS.

In occordance with Federal Communications Commission rul on radio frequency exposure 47 CFR 1.1307(b)

2 WHITE/BLUE BACKGROUND W/ BLACK LETTERING

QUANTITY: (1)

(TO BE MOUNTED AT EYE LEVEL ON TOWER NEAR SAFETY CLIMB)

000

(4) WHITE BACKGROUND W/ BLACK LETTERING
E911 STREET #
QUANTITY: (1 TYP)
LETTERS MUST BE A MINIMUM 6" TALL
(TO BE MOUNTED ON THE GATE OF COMPOUND)

- (1) SITE IDENTIFICATION SIGN
- (2) FCC/RF EXPOSURE SIGN
- (3) TOWER CLIMBING SIGN
- (4) STREET ADDRESS SIGN

NOTES:

- SIGNS SHALL MEASURE 8"x12", BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
- 2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
- 3. AT&T SITE # AND EMERGENCY CONTACT # SHALL BE MOUNTED ON THE EQUIPMENT SHELTER DOOR ADJACENT TO THE COMPOUND ENTRY WITH PERMANENT SET ADHESIVE. TWO-SIDED TAPE SHALL BE UTILIZED AT EACH CORNER ON THE BACKSIDE TO AID PLACEMENT UNTIL ADHESIVE SETS.
- 4. ADDITIONAL E911 ADDRESS SIGNS ARE REQUIRED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF. LETTERING ON 911 ADDRESS SIGNS MUST BE A MINIMUM OF 6" TALL.
- 5. ADDITIONAL FCC REGISTRATION # SIGNS ARE REQUIRED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF.
- 6. RECOMMENDED SOURCE FOR OBTAINING SIGNAGE:

ST. CLAIR SIGNS 3184 WADE HAMPTON BLVD. TAYLORS, SC 29687 (864) 244-0040 RF EXPOSURE SIGNS RICHARD TELL ASSOCIATES 3433 RINGSTAR ROAD, SUITE 3 NORTH LAS VECAS, NV 89030 (702) 645-3338



PLANS PREPARED FOR:



AMERICAN TOWER®

3500 REGENCY PKWY #100 CARY, NC 27518

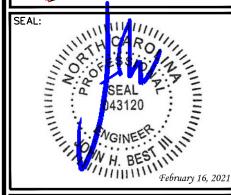
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AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287' GUYED TOWER

PLANS PREPARED BY: TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603-3530

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



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0	02-16-21	100% CONSTRUCTION							

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SHEET TITLE:

SIGNAGE DETAILS

SHEET NUMBER

REVISION:

TEP#: 55699.24545

TYPICAL SIGNS AND SPECIFICATIONS

SCALE: N.T.S

SCOPE:

1. PROVIDE LABOR, MATERIALS, INSPECTION, AND TESTING TO PROVIDE CODE COMPLIANCE FOR ELECTRIC, TELEPHONE, AND GROUNDING/LIGHTNING SYSTEMS.

- 1. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND CODES. THESE INCLUDE BUT ARE NOT LIMITED TO THE LATEST ADOPTED EDITIONS OF:
 - A. THE NATIONAL ELECTRICAL SAFETY CODE B. THE NATIONAL ELECTRIC CODE - NFPA-70
- D. LOCAL AND STATE AMENDMENTS
- C. REGULATIONS OF THE SERVING UTILITY COMPANY
- E. THE INTERNATIONAL ELECTRIC CODE -
- IEC (WHERE APPLICABLE)
- 2. PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR.
- 3. AFTER COMPLETION AND FINAL INSPECTION OF THE WORK, THE OWNER SHALL BE FURNISHED A CERTIFICATE OF COMPLETION AND APPROVAL.

TESTING:

1. UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST THE EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. THE TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

GUARANTEE:

- 1. IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND WITHOUT EXPENSE TO THE OWNER
- 2. THE WARRANTEE CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER.

UTILITY CO-ORDINATION:

1. CONTRACTOR SHALL COORDINATE WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH THE SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

EXAMINATION OF SITE:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH THE CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS SECTION WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING THE WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

CUTTING. PATCHING AND EXCAVATION:

- 1. COORDINATION OF SLEEVES, CHASES, ETC., BETWEEN SUBCONTRACTORS WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
- 2. NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE ELECTRICAL WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING.
- 3. SEAL PENETRATIONS THROUGH RATED WALLS, FLOORS, ETC., WITH APPROVED METHOD AS LISTED BY UL.

RACEWAYS / CONDUITS GENERAL:

- CONDUCTORS SHALL BE INSTALLED IN LISTED RACEWAYS. CONDUIT SHALL BE RIGID STEEL, EMT, SCH40 PVC, OR SCH80PVC AS INDICATED ON THE DRAWINGS. THE RACEWAY SYSTEM SHALL BE COMPLETE COMPLETE BEFORE INSTALLING CONDUCTORS.
- 2. EXTERIOR RACEWAYS AND GROUNDING SLEEVES SHALL BE SEALED AT POINTS OF ENTRANCE AND EXIT. THE RACEWAY SYSTEM SHALL BE BONDED PER NEC.

EXTERIOR CONDUIT:

- 1. EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.
- 2. THE CONDUIT SHALL BE RIGID STEEL AT GRADE TRANSITIONS OR WHERE EXPOSED TO DAMAGE.
- 3. UNDERGROUND CONDUITS SHALL BE RIGID STEEL, SCH40 PVC, OR SCH80 PVC AS INDICATED ON THE DRAWINGS.
- 4. BURIAL DEPTH OF CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION, BUT SHALL NOT BE LESS THAN THE FROST DEPTH AT THE SITE.
- 5. CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY ROUTES BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND/OR BUILDING OWNER.

INTERIOR CONDUIT:

- 1. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT OR PVC.
- 2. CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
- 3. PROVIDE SUPPORTS FOR CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. CONDUITS SHALL BE SIZED AS REQUIRED BY NEC

EQUIPMENT:

- 1. DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE.
- 2. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK. CONTRACTOR WILL VERIFY THAT EXISTING CIRCUIT BREAKERS ARE RATED FOR MORE THAN AVAILABLE FAULT CURRENT AND REPLACE AS NECESSARY.
- 3. NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY.

CONDUCTORS:

- 1. FURNISH AND INSTALL CONDUCTORS SPECIFIED IN THE DRAWINGS. CONDUCTORS SHALL BE COPPER AND SHALL HAVE TYPE THWN (MIN) (75° C) INSULATION, RATED FOR 600 VOLTS.
- 2. THE USE OF ALUMINUM CONDUCTORS SHALL BE LIMITED TO THE SERVICE FEEDERS INSTALLED BY THE UTILITY.
- 3. CONDUCTORS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:
 - A. MINIMUM WIRE SIZE SHALL BE #12 AWG.
 - CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND #12 MAY BE SOLID OR STRANDED.
 - CONNECTION FOR #10 AWG #12 AWG SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.
 - D. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.
- 3. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC STANDARDS.

UL COMPLIANCE:

1. ELECTRICAL MATERIALS, DEVICES, CONDUCTORS, APPLIANCES, AND EQUIPMENT SHALL BE LABELED/LISTED BY UL OR ACCEPTED BY JURISDICTION (I.E., LOCAL COUNTY OR STATE) APPROVED THIRD PARTY TESTING AGENCY.

GROUNDING:

GROUND

ΚW

NEC

PCS

РΗ

PNL

KILOWATTS

PHASE

PANEL

ISOLATED GROUND BAR

NATIONAL ELECTRIC CODE

INTERIOR GROUND RING (HALO)

PERSONAL COMMUNICATION SYSTEM

- 1. ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED AT A SINGLE POINT.
- 2. PROVIDE GROUND CONDUCTOR IN RACEWAYS PER NEC.
- 3. PROVIDE BONDING AND GROUND TO MEET NFPA 780 "LIGHTNING PROTECTION" AS A MINIMUM.
- 4. PROVIDE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, RADIO EQUIPMENT MANUFACTURERS, AND MOTOROLA R56 (AS APPLICABLE).

ABBREVIATIONS AND LEGEND

PNIBD - PANFIBOARD AMPERE ABOVE FINISHED GRADE - RIGID NON-METALLIC CONDUIT - AUTOMATIC TRANSFER SWITCH RGS RIGID GALVANIZED STEEL CONDUIT AMERICAN WIRE GAUGE SW SWITCH BARE COPPER WIRE BCW TGB TOWER GROUND BAR BFG BELOW FINISHED GRADE UNDERWRITERS LABORATORIES UL BKR BREAKER V VOLTAGE CONDUIT W WATTS CKT - CIRCUIT XFMR - TRANSFORMER DISCONNECT XMTR TRANSMITTER EXTERNAL GROUND RING ELECTRIC METALLIC TUBING ---E--- UNDERGROUND ELECTRICAL CONDUIT FLEXIBLE STEEL CONDUIT GENERATOR ----T--- UNDERGROUND TELEPHONE CONDUIT GLOBAL POSITIONING SYSTEM

KILOWATT-HOUR METER UNDERGROUND BONDING AND GROUNDING CONDUCTOR. GROUND ROD CADWELD GROUND ROD WITH INSPECTION WELL PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



AMERICAN TOWER

3500 REGENCY PKWY #100 CARY, NC 27518

PROJECT INFORMATION:

AT&T SITE NAME: 368-754 AT&T FA CODE: 12682186 AT&T PACE#: MRCAR033546 ATC #: 372926 ANGIER

> 2135 JOHNSTON COUNTY RD ANGIER, NC 27501 (HARNETT COUNTY) EXISTING 287' GUYED TOWER

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH. NC 27603-3530

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

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100% CONSTRUCTION PRFLIMINARY 2-28-20 REV DATE ISSUED FOR:

SRZ CHECKED BY: DRAWN BY:

SHEET TITLE:

ELECTRICAL NOTES

SHEET NUMBER:

REVISION

TEP#: 55699.2454

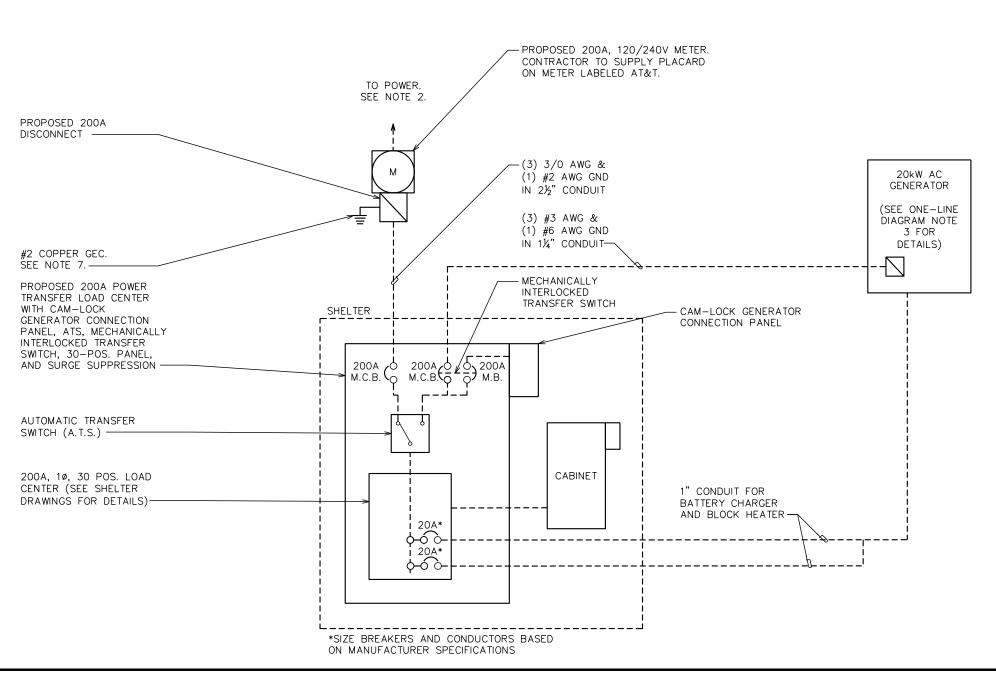
February 16, 2021

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT.
- 2. CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS.
- 3. ONE-LINE DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT INDICATIVE OF THE ACTUAL EQUIPMENT LAYOUT.
- 4. CONTRACTOR SHALL LABEL METER SOCKET WITH SERVICE OWNER NAMEPLATE WITH 1/2" HEIGHT MINIMUM LETTERS.
- ALL EQUIPMENT WILL HAVE A MINIMUM AIC OF 10 KA. CONTRACTOR TO DETERMINE AVAILABLE FAULT CURRENT BEFORE ENERGIZING EQUIPMENT. THE AMOUNT OF AVAILABLE FAULT CURRENT SHALL BE MARKED ON THE SERVICE EQUIPMENT
- 6. CONTRACTOR WILL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.

ONE-LINE DIAGRAM NOTES:

- 1. ELECTRICAL SERVICE SHALL BE 200A, 120/240V, 1ø, 3W.
- 2. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.
- 3. ONE-LINE BASED ON MAXIMUM GENERATOR BREAKER SIZE OF 100A.



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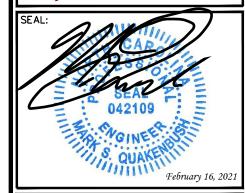
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DRAWN BY: SRZ CHECKED BY:

SHEET TITLE:

ONE-LINE **DIAGRAM**

SHEET NUMBER:

REVISION: 0

TEP#: 55699.2454

ONE-LINE DIAGRAM

LOADING SHOWN TAKEN FROM VERTIV WIC DRAWINGS APPROVED JANUARY 16, 2017

PROPO	SEC	200	0A,	12	0/240) VA	C AT	kT F	OWE	R	PAI	NEL	SCI	HEDULE
LOAD SERVED	VOLT A (WA	MPERES TTS) L2	WIRE	BR P	EAKER TRIP	CKT #	PHASE	CKT #	BREAI TRIP	KER P	WIRE	VOLT A (WA	MPERES TTS)	LOAD SERVED
RECTIFIER #1	2000		10	2	30	1	A	2	20	1	12	360		GFCI RECEPTACLES
	2000	2000	10		30	3 5	$\frac{B}{A}$	4 6	30	2	10	2000	2000	RECTIFIER #3
RECTIFIER #2	2000	2000	10	2	30	7		8	20	1	12	2000	1200	GEN. BATTERY CHARGER
BLANK	_		_	_	_	9		10	20	1	12	1000		GEN. BLOCK HEATER
<u> </u>	_	-				11	BA	12		_	_	_	-	BLANK
BLANK	_	_	-	_	_	13 15	B	14				_	_	
BLANK	_			_	_	17		18	_	-	_	-		BLANK
DE/IIIIX		-				19	┵┸	20		_	_		_	BLANK
BLANK	_	_	-	-	_	21 23	A A	22				-	_	
HVAC	1920		12	2	20	25		26	-	_	_	_		BLANK
HVAC		1920	12		20	27		28	20	1	12		200	FLOOD LIGHTS
APPLIANCE OUTLETS	180		12	2	20	29	_ A	30	_	_	_	-		BLANK
VOLT AMPS	6100	5920										3360	3400	VOLT AMPS
L1 VOLT AMPERES									L2 VOLT A	MPERE	S			
L1 AMPS														
NOTE:									MAX AMPS		:5%			
CONTRACTOR TO LIMIT TOTAL AC LOAD TO 30,000 WATTS														



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PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD PALEIGH NO. 27603,3530

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

SEAL:

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GINERAL

February 16, 2021

0	02-16-21	100% CONSTRUCTION							
Α	12-28-20	PRELIMINARY							
REV	DATE	ISSUED FOR:							

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

PANEL SCHEDULE

SHEET NUMBER: **E-2B**

REVISION:

TEP#: 55699.24545

PANEL SCHEDULE

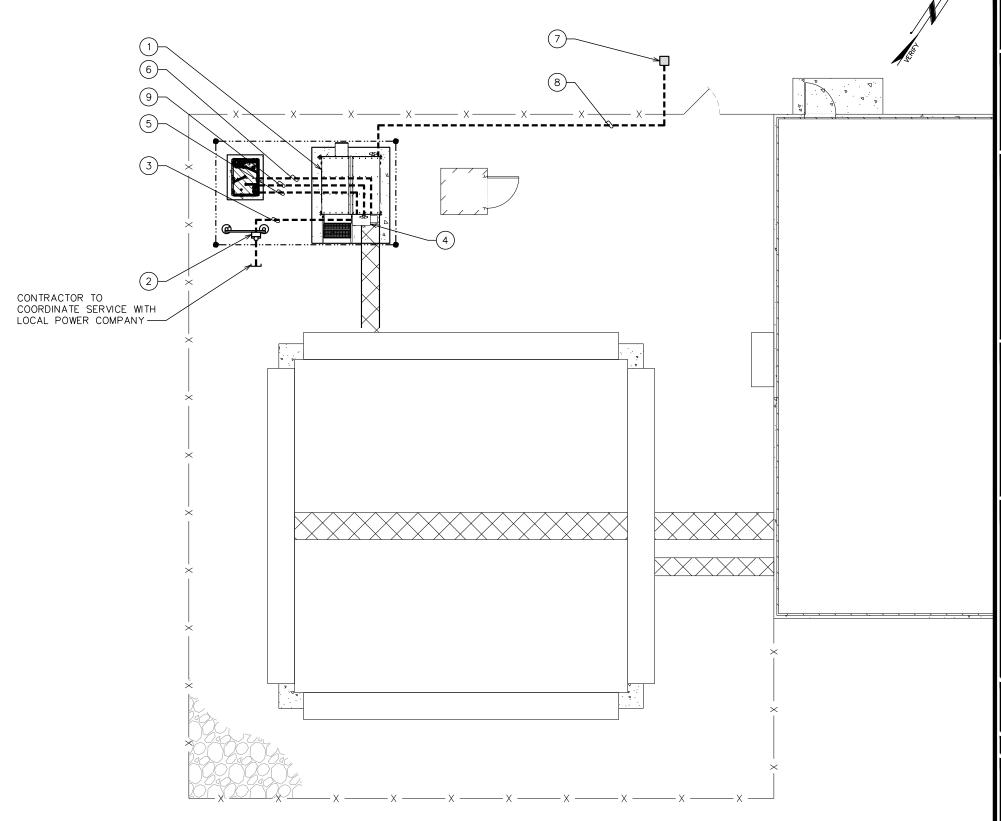
SCALE: N.T.S.

TRENCHING NOTES:

- PRIOR TO ANY DIGGING, THE CONTRACTOR SHALL IDENTIFY ALL EXISTING UTILITIES ON SITE
- 2. A MINIMUM SEPARATION OF 12" IS REQUIRED BETWEEN THE POWER AND FIBER CONDUITS

PLAN NOTES:

- 1) PROPOSED AT&T WIC EQUIPMENT SHELTER
- 2) PROPOSED 200A METER & DISCONNECT
- (1) 2½" POWER CONDUIT FROM METER TO 200A LOAD CENTER
- 4) 200A LOAD CENTER
- (1) 1¼" POWER CONDUIT FROM ATS INSIDE LOAD CENTER TO PROPOSED 20kW AC GENERATOR
- (1) 1" CONDUIT FROM LOAD CENTER TO PROPOSED 20kW AC GENERATOR FOR BATTERY CHARGER AND BLOCK HEATER
- (7) PROPOSED FIBER MEET-ME POINT. LOCATION IS TO BE ESTABLISHED WITH THE LEC PRIOR TO INSTALLATION
- (1) 4" TELCO CONDUIT W/ (3) 1½" FLEX INTERDUCT & PULL STRING FOR FIBER POWER LEADS STUBBED UP IN FIBER HANDHOLE. CONTRACTOR TO COORDINATE SERVICE WITH LOCAL TELEPHONE COMPANY.
- (9) (1) 1" PVC CONDUIT FOR GENERATOR ALARMS AND CONTROLS. CONTRACTOR TO INSTALL PER MANUFACTURER SPECIFICATIONS.



PLANS PREPARED FOR:

AT&T

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



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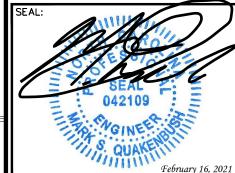
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326 TRYON ROAD
RALEIGH, NC 27603-3530
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O 02-16-21 100% CONSTRUCTION
A 12-28-20 PRELIMINARY
REV DATE ISSUED FOR:

DRAWN BY: SRZ CHECKED BY: EGG

SHEET TITLE:

SERVICE ROUTING PLAN

SHEET NUMBER:

16

SCALE IN FEET

E-3

REVISION:

TEP#: 55699.245455

SERVICE ROUTING PLAN

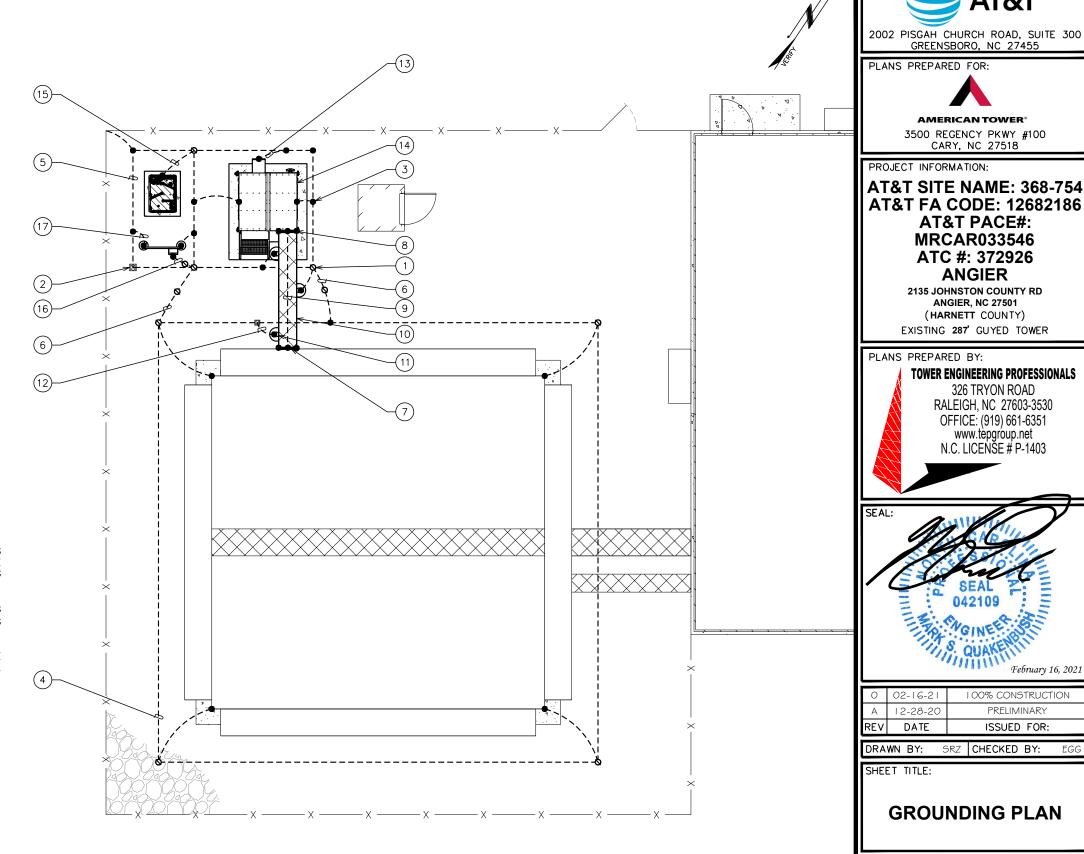
SCALE: 3/32" = 1'-0"

DRAWING NOTES:

- GROUND ROD %"x10' LONG (TYP)
- GROUND ROD WITH INSPECTION WELL (TYP)
- CADWELD (TYP)
- TOWER GROUND RING
- #2 AWG BARE SOLID BARE TINNED COPPER WIRE GROUND RING (SHELTER)
- #2 AWG BARE SOLID BARE TINNED COPPER BONDS BETWEEN TOWER GROUND RING AND SHELTER GROUND RING
- EXISTING TOWER BUS BAR
- (8) PROPOSED ICE BRIDGE BUS BAR
- #2 AWG BARE SOLID TINNED COPPER WIRE BETWEEN BUS BARS
- PROPOSED ICE BRIDGE
- PROPOSED ICE BRIDGE POST (TYP)
- #2 AWG ICE BRIDGE BOND BURIED 30" BFG (TYP)
- HVAC GROUND. MECHANICAL CONNECTIONS AT HVAC UNITS ABOVE GRADE AS ALLOWED BY CODE.
- PROPOSED AT&T WIC EQUIPMENT SHELTER
- #2 AWG BOND BETWEEN GENERATOR AND GROUND
- #2 AWG BOND BONDING PROPOSED METER TO PROPOSED GROUND RING
- (17) #2 AWG BOND BETWEEN H-FRAME POST TO GROUND (TYP)

GROUNDING NOTES

- GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 AWG BARE TINNED COPPER WIRE. THE TOP OF THE GROUND RODS AND THE RING CONDUCTOR SHALL BE 2 FEET BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 10'-0" CENTERS. (MIN. 15'-0" MAX)
- 2. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS/ BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250.30.
- 3. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.



TOWER GROUNDING PLAN

SCALE: 3/32" = 1'-0"

SCALE IN FEET

SHEET NUMBER:

12-28-20

DATE

PLANS PREPARED FOR:

AT&T

GREENSBORO, NC 27455

AMERICAN TOWER®

3500 REGENCY PKWY #100

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> ANGIER, NC 27501 (HARNETT COUNTY)

EXISTING 287' GUYED TOWER

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RALEIGH. NC 27603-3530

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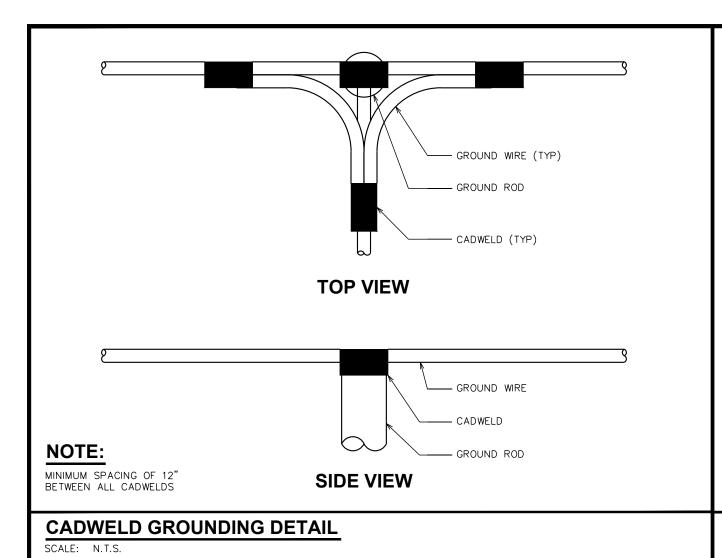
February 16, 2021

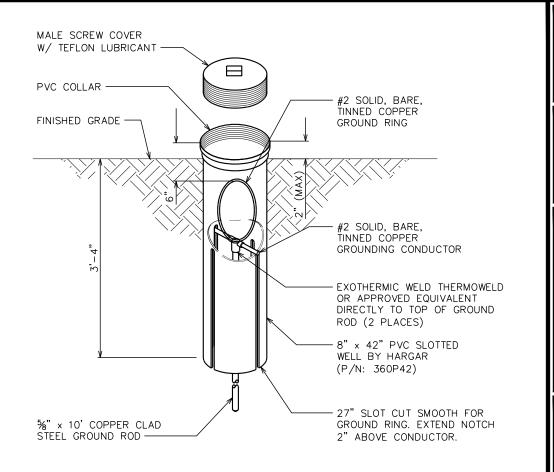
100% CONSTRUCTION **PRELIMINARY**

ISSUED FOR:

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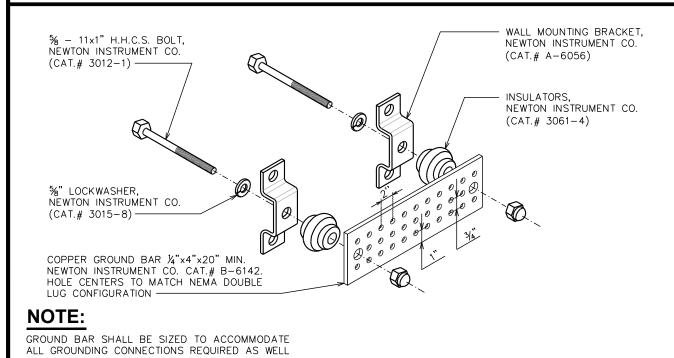
GROUNDING PLAN

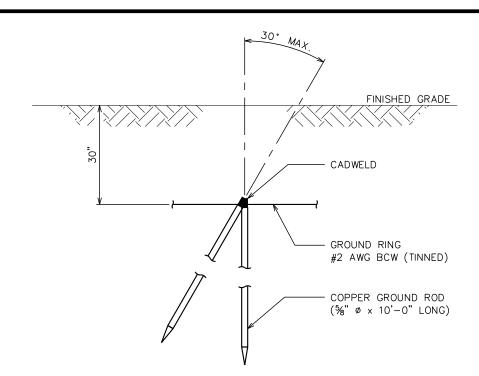




GROUND ROD WITH INSPECTION WELL DETAIL

SCALE: N.T.S.





COPPER-CLAD STEEL GROUND ROD DETAIL



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February 16, 2021

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DRAWN BY: SRZ CHECKED BY:

SHEET TITLE:

GROUNDING DETAILS I

SHEET NUMBER: E-5 REVISION: 0

TEP#: 55699.2454

STANDARD GROUND BAR DETAIL

AS PROVIDE 50% SPARE CAPACITY

