AT&T SITE NUMBER: 368-323

PROJECT DESCRIPTION: **CO-LOCATION ON AN** 

**EXISTING MONOPOLE** 

**TOWER** 

195' MONOPOLE **TOWER TYPE:** 

SITE ADDRESS: **179 DEAN RD** 

> **LILLINGTON, NC 27546** (HARNETT COUNTY)

JURISDICTION: **HARNETT COUNTY** 

AREA OF CONSTRUCTION: 300 ± SQ. FT. (LEASE AREA)

**TELECOMMUNICATIONS** PRESENT OCC. TYPE:

**FACILITY** 

**CURRENT ZONING: RA-30** 

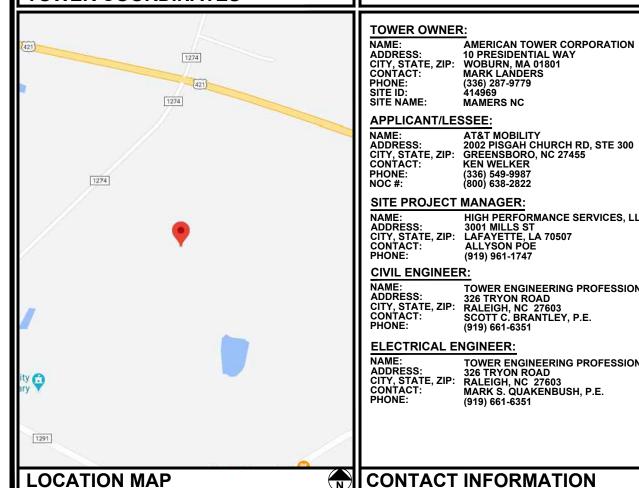
PIN #: 0610-28-6363.000

#### **PROJECT INFORMATION**

LATITUDE: N 35° 25' 16.86" (35.4213611) LONGITUDE: W 78° 57' 24.63" (-78.9568333)

**GROUND ELEVATION:** ±366.1' (AMSL)

#### **TOWER COORDINATES**





**179 DEAN RD LILLINGTON, NC 27546** (HARNETT COUNTY)

AT&T SITE #: 368-323 **FA LOCATION CODE: 12855920** 

AMERICAN TOWER CORPORATION

HIGH PERFORMANCE SERVICES, LLC

TOWER ENGINEERING PROFESSIONALS

TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603 MARK S. QUAKENBUSH, P.E.

10 PRESIDENTIAL WAY

WOBURN, MA 01801 MARK LANDERS

(336) 287-9779 414969

MAMERS NC

(336) 549-9987 (800) 638-2822

(919) 961-1747

326 TRYON ROAD RALEIGH, NC 27603 SCOTT C. BRANTLEY, P.E. (919) 661-6351 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:** 

SOUTH RIVER ELECTRIC MEMBERSHIP CORP POWER COMPANY: CUSTOMER SERVICE

PHONE: METER # NEAR SITE:

PHONE # NEAR SITE: PEDESTAL # NEAR SITE: UNKNOWN

TELEPHONE COMPANY: CENTURYLINK CUSTOMER SERVICE (800) 244-1111 (910) 984-1094

(910) 892-8071 98 172 745

#### PROPERTY OWNER:

NAME: WOMACK DEBRA D 177 DEAN RD LILLINGTON, NC, 27546 WOMACK DEBRA D CITY, STATE, ZIP: CONTACT: PHONE: (910) 893-4837

PLANS PREPARED FOR:

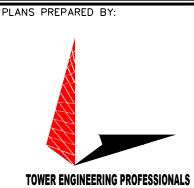


2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455 OFFICE: (336) 286-6163 NOC #: (800) 638-2822

3001 MILLS STREET LAFAYETTE, LA 70507

SHEET	DESCRIPTION	REV
T1	TITLE SHEET	5
T2-T6	APPENDIX B	5
N1	GENERAL NOTES	5
SP1	SITE PLAN	5
C1	PROPOSED COMPOUND DETAIL	5
C2	TOWER ELEVATION	5
C3	WIC DETAILS	5
C4-C4A	FOUNDATION DETAILS	5
C5	ICE BRIDGE DETAILS I	5
C6	ICE BRIDGE DETAILS II	5
C7A	GENERATOR SPECIFICATIONS I	5
C7B	GENERATOR SPECIFICATIONS II	5
C8	GENERATOR FOUNDATION & SIGNAGE DETAILS	5
C9	ANTENNA MOUNTING DETAILS	5
C10	SIGNAGE DETAILS	5
E1	ELECTRICAL NOTES	5
E2A	ONE-LINE DIAGRAM	5
E2B	PANEL SCHEDULE	5
E3	SERVICE ROUTING PLAN	5
E4	GROUNDING PLAN	5
E5	GROUNDING DETAILS I	5
E6	GROUNDING DETAILS II	5
	APPENDIX	
	PROPOSED MOUNT MODIFICATIONS	
	PROPOSED STANDOFF MOUNT SPECIFICATIONS	
	PROPOSED MOUNT SPECIFICATIONS	

**INDEX OF SHEETS** 



326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net

N.C. LICENSE # P-1403

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
3	11-19-20	PRELIMINARY
2	11-17-20	PRELIMINARY
- 1	11-11-20	PRELIMINARY
0	11-04-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: CHECKED BY: MJC





February 25, 2021

SHEET NUMBER: \_\_1

REVISION: 5

TEP#: 62631.4544

CONTACT INFORMATION

(919) 661-6351

TOWER OWNER:

CITY, STATE, ZIP: CONTACT:

APPLICANT/LESSEE:

SITE PROJECT MANAGER:

**ELECTRICAL ENGINEER:** 

**CIVIL ENGINEER:** 

CITY, STATE, ZIP: CONTACT:

ADDRESS: 3001 MILLS ST
CITY, STATE, ZIP: LAFAYETTE, LA 70507
CONTACT: ALLYSON POE

PHONE:

NAME:

NAME:

ADDRESS:

SITE NAME:

#### 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)

	<b>\ 1</b>		81		
5	AT&T 368-323 FA# 12855920			7' 0	1 27546
	N RD, LILLINGTON, NC	TM // 226	\		ode <u>27546</u>
	ed Agent: KEN WELKER (AT&T)	`	´ <u> </u>		
Owned By:		y/County	⊠ Private	∐ Sta	
Code Enforceme	nt Jurisdiction: L City	у	County_HAR	RNETT Sta	ate
CONTACT: _	Γ	Tower Engineering Profe	essionals		
DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE #	E-MAIL
Architectural				()	
Civil	Tower Engineering Professionals		048226	(919) 661-6351 (919) 661-6351	sbrantley@tepgroup.net mquakenbush@tepgrou
Electrical Fire Alarm	Tower Engineering Professionals	Mark S. Quakenbush	042109	(919)001-0331	inquakenousin@tepgrou
Plumbing					
Mechanical					
	ipe			()	
Structural				()	
Other	>5' High				
	include firms and individua	als such as truss, p	recast, pre-engine	eered, interior desi	gners, etc.)
CONSTRU RENOVAT	☐ 1st Tim ☐ Shell/( proced ☐ Phasec possib  TING BUILDING CODE:  CTED: (date)	ne Interior Comple Core - Contact the lures and requirem d Construction - Si le additional proce EXISTING:  Alteration:  CURREN PROPOS	etion  local inspection junts  hell/Core- Contact dures and require  Prescriptive  Level I  Historic Prope  TOCCUPANC  ED OCCUPANC  I   II   I	the local inspect	ssible additional ion jurisdiction for  Chapter 14 Level III Change of Use
BASIC BUILDI Construction Ty (check all that ap Sprinklers: Standpipes: Fire District: Special Inspecti	ype:	I III  Flood Hazard A  Yes (Contact th	□ III □ We area: ⊠ No	t Dry Yes priving Triping Dry	□ V-A □ V-B PA 13D dditional

2018 NC Administrative Code and Policies

		Gross Building Area Table	
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		64 SQ FT CONCRE	ETE PAD
Basement		N/A	
TOTAL	,	64 SQ FT CONCRE	ETE PAD
		ALLOWABLE AREA	
<b>Primary Occupa</b>	ncy Classification(s): Se	elect one Select one Select on	ne Select one Select one
Assembly	□ A-1 □ A-2 □ A	A-3	
Business			
Educational	$\overline{\sqcap}$		
Factory	F-1 Moderate F-	2 Low	
Hazardous		-2 Deflagrate H-3 Combust	☐ H-4 Health ☐ H-5 HPM
	☐ I-1 Condition ☐ 1		
montanonar	☐ I-2 Condition ☐ 1	$\square_2$	
	I-3 Condition 1		15
			7.2
N. f	□ 1-4		
Mercantile		12	
Residential			
Storage	S-1 Moderate	_ 2 1	
		Open Enclosed Repair (	Garage
Utility and M	fiscellaneous		
Accessory Occup	pancy Classification(s):	N/A	
Incidental Uses	(Table 509): N/A		
Special Uses (Ch	apter 4 – List Code Sect	tions): N/A	
Special Provision	ns: (Chapter 5 – List Co	de Sections): N/A	
Mixed Occupan			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
	1	constru	all apply to the entire building.
☐ Sepa	rated Use (508.4) - See be	elo or ea	ach story, the area of the occupancy shall
	be sug	aos of t	the actual floor area of each use divided by
	the	each use	shall not exceed 1.
Actua	l Area of Occupan	rea of Occupa	$ancv R \leq 1$
	le Area of Occu	Sle Area of Occup	pancy B
		The required type applying the coccupancing constructions of the construction of the c	•
		∇//	+ = <u>≤ 1.00</u>

2018 NC Administrative Code and Policies



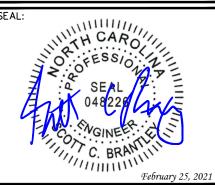
PROJECT INFORMATION:

#### AT&T SITE #: 368-323

LAFAYETTE, LA 70507

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





5 02-25-21 CONSTRUCTION 4 01-20-21 PRELIMINARY	RFV	DATE	ISSUED FOR:
5 02-25-21 CONSTRUCTION	4	01-20-21	PRELIMINARY
	5	02-25-21	CONSTRUCTION

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

**APPENDIX B** 

SHEET NUMBER:

REVISION:

5

TEP#: 62631.454479

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.24	REA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	NCREASE <sup>1,5</sup>	STORY OR UNLIMITED <sup>2,3</sup>
				~~~	
			7. ×		
		5060	$\langle C \rangle$	) //	

Frontage area increases from Section 506.2 are

a. Perimeter which fronts a public way
b. Total Building Perimeter

(F)

c. Ratio (F/P) = \_\_\_\_\_\_(F/P)
d. W = Minimum width of pub
e. Percent of frontage increa

2 Unlimited area applicable under com
3 Maximum Building Area = total numb
4 The maximum area of open parking garage control towers must comply with Table 412...1.
5 Frontage increase is based on the unsprinklered area value. The maximum area of air traffic

	ALLOWABLE HEIGHT		
	ALLOWABLE	PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)		<b>'5</b>	
Building Height in Stories (Table 504.4)			
<sup>1</sup> Provide code reference if the "Shown on Plans" quant	tity 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/*	SHE	RATED	PENETRATION	RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
Structural Frame,							
including columns, girders,							
trusses				70	"//		
Bearing Walls					//		
Exterior				<b>\</b> \ <b>\</b> '/ <sub>A</sub>			
North			711				
East							
West							
South	_		~ P//				
Interior			<b>◇</b> //				
Nonbearing Walls and		ا ا	REDUCTION				
Partitions Valls and	`	1					
Exterior walls							
North							
East							
West				<b>//</b>			
South				_	. //		
Interior walls and partitions			OTABL	. (	) —		
Floor Construction				112	//-		
			<b></b>	O'/			
Including supporting beams		<b>l</b> ,		<b>\</b>			
and joists			4.7	<b>)</b>			
Floor Ceiling Assembly			<b>6</b>				
Columns Supporting Floors	<del></del>	//	<b>&gt;</b> //	$\sim$			
Roof Construction, including supporting beams and joists			<b>~'</b> //				
Roof Ceiling Assembly			0'//				
		1					
Columns Supporting Roof		H// ,	//				
Shaft Enclosures - Exit		$\vdash \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	7				
Shaft Enclosures - Other		ľ					
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							

\* Indicate section number permitting reduction

2018 NC Administrative Code and Policies



PLANS PREPARED FOR:

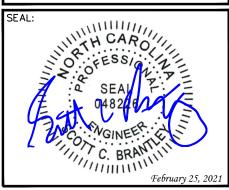


PROJECT INFORMATION:

#### AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**APPENDIX B** 

SHEET NUMBER:

REVISION: 5

TEP#: 62631.45447

2018 NC Administrative Code and Policies

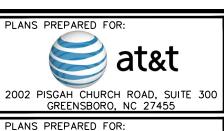
	PERCENTAGE OF W	ALL OPENING CALCUL	ATIONS
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
	A.	DING	
	LIE BI	REQUIREMENTS	
Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems:	PROTECTION (TABLE 705.8)  LIE  LIE  LIE  Pa  es  Pa	rtial	
Panic Hardware:	Yes	Tuai	
	LIFE SAFETY PLAN	REQUIREMENTS	
Life Safety Plan Sheet #:			
Exterior wall opening are Occupancy Use for each	ty line locations (if not on the	4 1' (705	
Occupant loads for each a  Exit access travel distance  Common path of travel di	es (1017) istances (Tables 1006	ING	
☐ Dead end lengths (1020.4☐ Clear exit widths for each	n exit door	IID!	
☐ Maximum calculated occ ☐ Actual occupant load for	upant load	can accommodate base	ed on egress width (1005.3)
A separate schematic plan purposes of occupancy se	n ind	noor/ceiling and/or roof stru-	cture is provided for
Location of doors with pa	10)		
Location of doors with de	elayed and the a	mount of delay (1010.1.9.7)	
Location of doors with ele		1010.1.9.9)	
Location of doors equipped Location of emergency es	ed with holy-open devices		
The square footage of each	• ,		
	` '	ccupancy Classification I-2 (	(407.5)
	s or table notes that may have		

ACCESSIBLE DWELLING UNITS (SECTION 1107) TOTAL ACCESSIBLE ACCESSIBLE TYPE A TYPE B TOTAL WAJILDING Units UNITS/ Units ACCESSIBLE UNITS UNITS Units Units REQUIRED REQUIRED PROVIDED PROVIDED PROVIDED HOTAL LOT OR PARKING TOTAL # OF PARKING ESSIBLE SPACES PROVIDED TOTAL# REQUIRED VAN SPACES WITH ACCESSIBLE 132" ACCESS 8' ACCESS PROVIDED AISLE AISLE TOTAL

#### PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		W	ATERCLOSI	ETS	URINALS		LAVATORIE	S	SHOWERS	DRINKING	FOUNTAINS
		MALE	FEMALE	UNISEX		MALE	FEM	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW										
	REQ'D						_	~ //			
						7/		<i>y</i> //			
					SPE 2	71. 1					
Special	approval:	(Local .	Jurisdictio		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BI	ILDIN C, DF	PI, DHHS	S, etc., des	cribe below	r)
Special :	approval:	(Local	Jurisdictio		NOT!	ABI	C, DF	PI, DHHS	S, etc., des	cribe below	·)

2018 NC Administrative Code and Policies



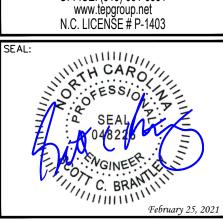
HIGH PERFORMANCE SERVICES, LLC 3001 MILLS STREET LAFAYETTE, LA 70507

PROJECT INFORMATION:

AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





CONSTRUCTION 01-20-21 PRELIMINARY REV DATE ISSUED FOR:

BSE CHECKED BY: DRAWN BY:

SHEET TITLE:

**APPENDIX B** 

SHEET NUMBER:

**REVISION:** 5

TEP#: 62631.45447

2018 NC Administrative Code and Policies

#### ENERGY SUMMARY

#### **ENERGY REQUIREMENTS:**

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

Existing building envelope complies with code:
Exempt Building: No Yes (Provide code of
Climate Zone: 3A 4A 3
Method of Compliance: Energy  ASV  Prescriptive  Prescriptive
Existing building envelope complies with code:  Exempt Building:  No  Yes (Provide code or Climate Zone:  3A  4A  Method of Compliance: Energy  ASV  THERMAL ENVELOPE (Prescriptive Greekers)
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 each 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: Solar heat gain coefficient: projection factor: Door R-Values:  Walls below grade (each assembly) Description of assembly: U-Value of total assembly R-Value of insulation  Floors over uncondition Description of assembly: U-Value of total assembly: Description of assembly: Description of assembly: U-Value of total assembly: Description of assembly: Des
Walls below grade (each assembly)
Description of assembly: U-Value of total assembly R-Value of insulation
Floors over uncondition (xy)
Description of asset U-Value of total asset 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)

DESIGN LOADS:				
Importance Factors:	Snow (I <sub>S</sub> ) Seismic (I <sub>E</sub> )			
Live Loads:	Roof psf Mezzanine psf Floor psf			
<b>Ground Snow Load:</b>	psf			
	Ground Snow Load: psf  Wind Load: Basic Wind Speed Exposure Category  EISMIC DESIGN CATEGORY: DD  Trovide the following Seismic Design Risk Category (Table 160 Spectral Response Acc % %g St %g			
SEISMIC DESIGN CATEGORY	7:			
Provide the following Seismic Design  Risk Category (Table 160  Spectral Response Acc  %g S1%g				
Site Classification (ASCI	B C D DE DF			
Data Sou	rce:			
Basic structural system	☐ ☐ Dual w/Special Moment Frame			
	☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel			
	☐ Moment Frame ☐ Inverted Pendulum			
Analysis Procedure:	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic			
Architectural, Mechanical, Components anchored?				
LATERAL DESIGN CONTROL: Earthquake  Wind				
SOIL BEARING CAPACITIES:  Field Test (provide copy of test report) psf Presumptive Bearing capacity psf Pile size, type, and capacity				

2018 NC Administrative Code and Policies





REV	DATE	ISSUED FOR:
4	01-20-21	PRELIMINARY
5	02-25-21	CONSTRUCTION

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**APPENDIX B** 

SHEET NUMBER:

REVISION: 5

TEP#: 62631.45447

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

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

Thermal Zone	;		<b>(</b>	
winter	dry bulb:	//	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
summ	er dry bulb:	//_		
Interior desig	1 conditions	SYSTEMS AND WIFE A BI		
winter	dry bulb:		)'//	
summ	er dry bulb:	<b>, v</b> ,		
relativ	e humidity:			
Building cooli Mechanical S <sub>l</sub>	ng load:			
Unita	y			
	scription of unit:			
he	ating efficiency:			
	oling efficiency:			
	e category of unit:			
Boiler				
S12	ze category. If over	rsized, state reason	ı.:	
Chille				

#### 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 90.1 ☐ P
Method of Compliance: Energy Code  ASHRAE 90.1 D  Prescriptive  ASHRAE 90.1 D  Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the number of ballasts; total wattage per total interior we total exterior wat allowed
Additional Efficiency Package ons (When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance ☐ C406.3 Reduced Lighting Power Density ☐ 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



2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

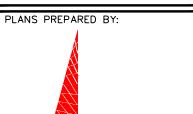
PLANS PREPARED FOR:



PROJECT INFORMATION:

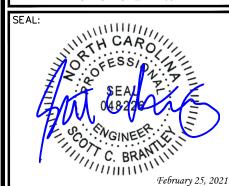
#### AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



#### **TOWER ENGINEERING PROFESSIONALS**

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



CONSTRUCTION PRELIMINARY 01-20-21 REV DATE ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**APPENDIX B** 

SHEET NUMBER:

REVISION: 5

TEP#: 62631.45447

2018 NC Administrative Code and Policies

- 1. ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED AT&T OR IT'S DESIGNATED REPRESENTATIVE
- 2. 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.
- 3. THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H. THIS CONFORMS TO THE REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE, 2018 EDITION.
- 4. 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.
- 7. 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.
- 8. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY 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.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
- 15. 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 REWORKED OR REPLACED.
- 16. 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.
- 17. 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.
- 20. 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.
- 21. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.
- 22. 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.



2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:

PROJECT INFORMATION:



E/11/11/11/12, E/1 / 0

#### AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





www.tèpgroup.net

N.C. LICENSE # P-1403

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

GENERAL NOTES

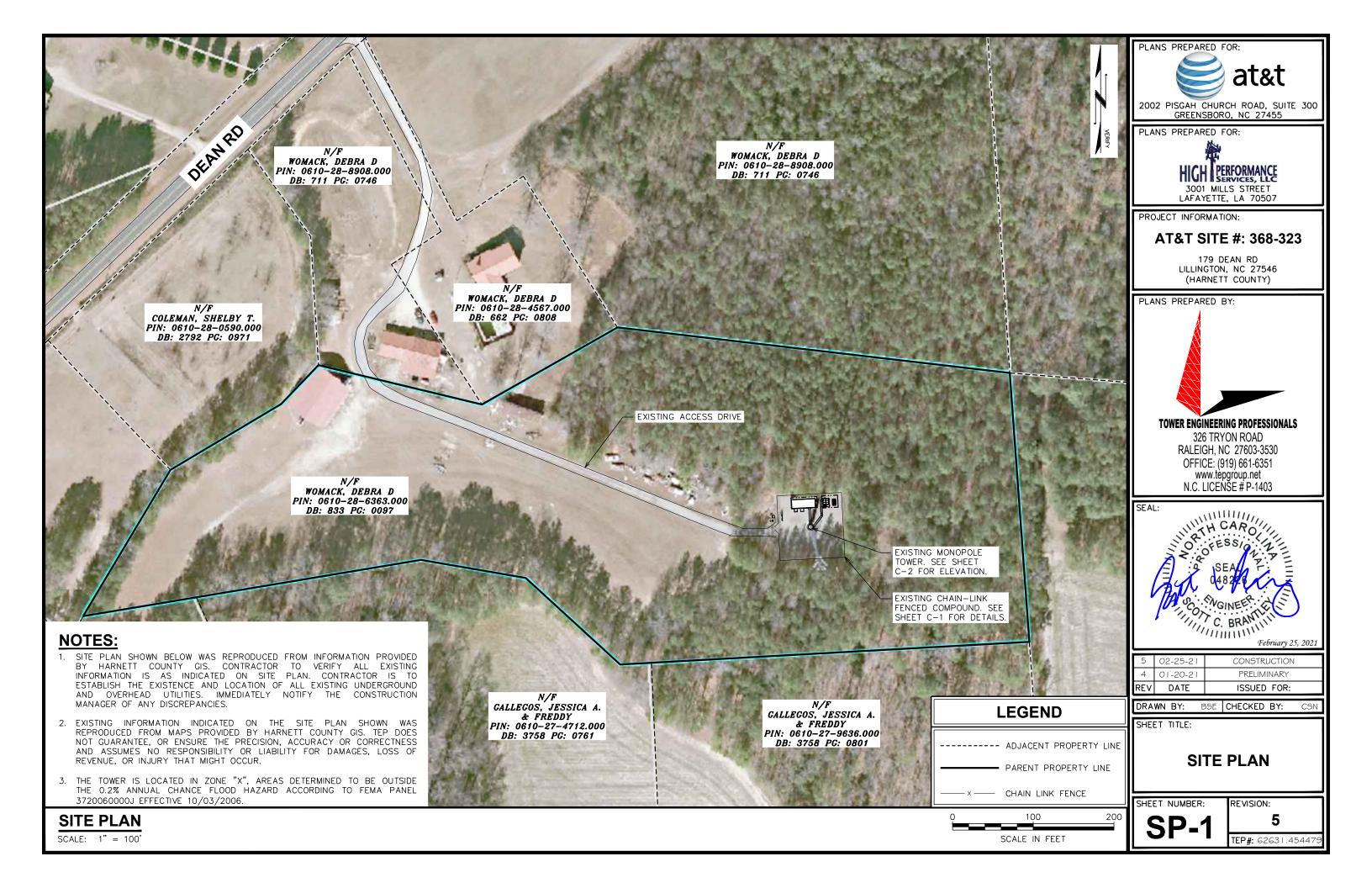
SHEET NUMBER:

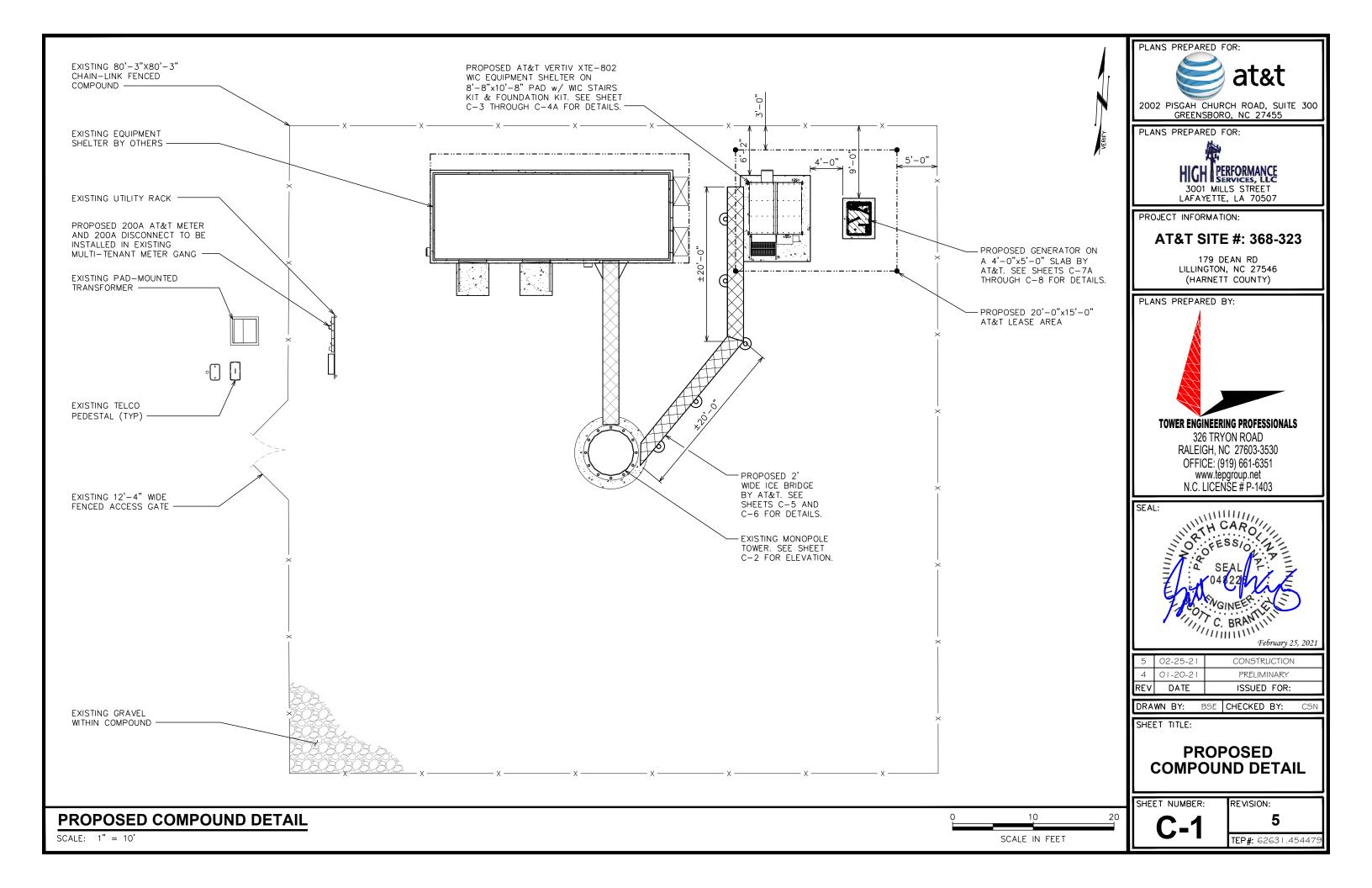
N-1

REVISION: **5** 

TEP#: 62631.454479

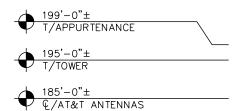
**GENERAL NOTES** 

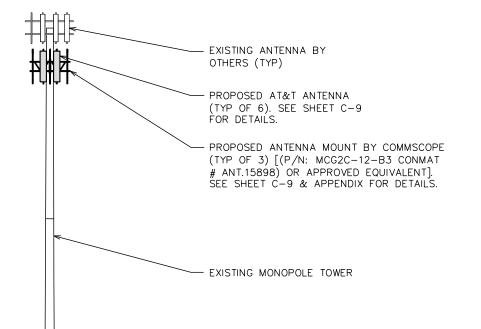




#### **NOTES:**

- 1. PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF STRUCTURAL ANALYSIS.
- 2. TOWER DRAWING IS ONLY A GRAPHIC REPRESENTATION OF THE STRUCTURE. THE ACTUAL TOWER IN THE FIELD MAY VARY.
- 3. PER ANTENNA MOUNT ANALYSIS REPORT COMPLETED BY SMW ENGINEERING GROUP, INC, DATED JANUARY 18, 2021, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.





0'-0" (REFERENCE) T/CONCRETE



2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



LAFAYETTE, LA 70507

PROJECT INFORMATION:

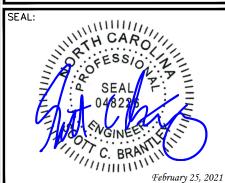
#### **AT&T SITE #: 368-323**

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



**TOWER ENGINEERING PROFESSIONALS** 

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



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**TOWER ELEVATION** 

SHEET NUMBER:

REVISION: 5

TEP#: 62631.45447

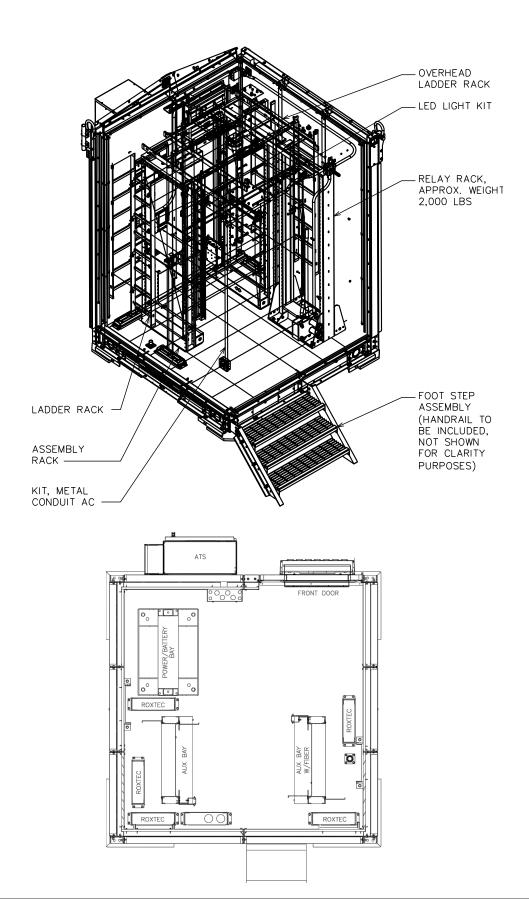
**TOWER ELEVATION** 

25 SCALE IN FEET

SCALE: 1" = 25'

#### NOTE:

REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR MORE DETAILS.





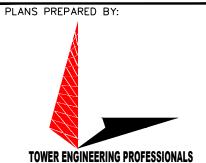
PLANS PREPARED FOR:



PROJECT INFORMATION:

#### AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



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



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**WIC DETAILS** 

SHEET NUMBER:

**REVISION:** 5

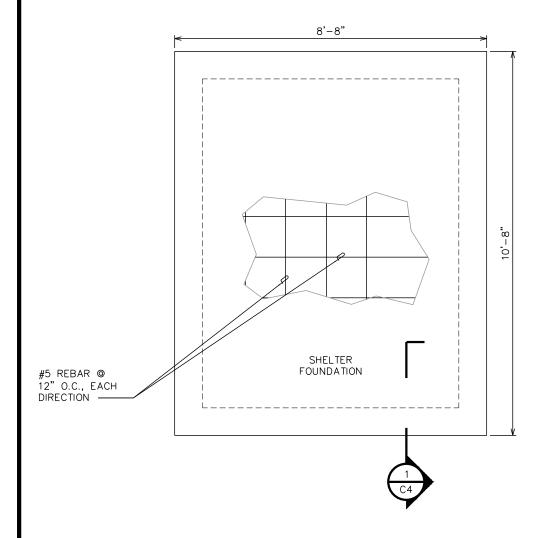
TEP#: 62631.45447

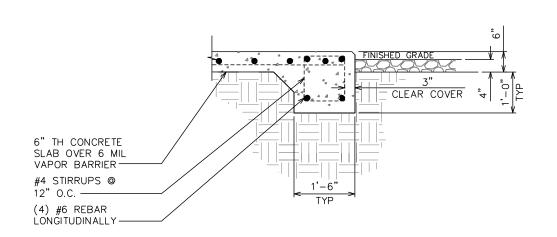
**VERTIV XTE-802 WIC DETAILS** 

SCALE: N.T.S.

#### **FOUNDATION NOTES:**

- 1. FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING CAPACITY.
- 2. CONCRETE SHALL BE 4,000 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  $\chi$ ".
- 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 ACI 318-14.







2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



PROJECT INFORMATION:

#### **AT&T SITE #: 368-323**

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



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



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

FOUNDATION DETAILS

SHEET NUMBER:

REVISION:

**C-4** 

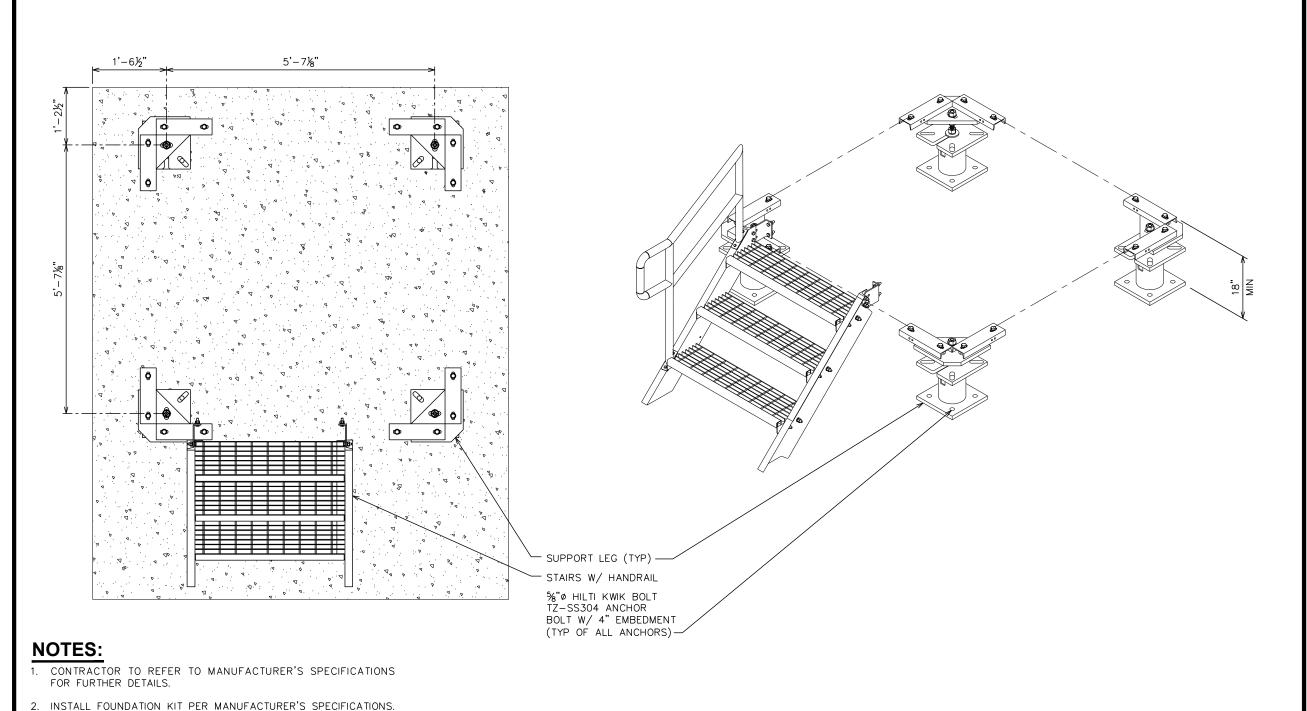
**5 TEP#:** 62631.45447

**FOUNDATION PLAN DETAIL** 

SHELTER FOUNDATION SECTION CUT DETAIL

SCALE: N.T.S.

SCALE: N.T.S.



PLANS PREPARED FOR:

at&t

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



PROJECT INFORMATION:

#### **AT&T SITE #: 368-323**

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



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

SEAL:

SEAL:

OFESSION

OF

RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351

5 02-25-21 CONSTRUCTION
4 01-20-21 PRELIMINARY
REV DATE ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

FOUNDATION DETAILS

SHEET NUMBER

REVISION:

**5 TEP#**: 62631.4544

**WIC CONCRETE MOUNT FOUNDATION KIT DETAILS** 

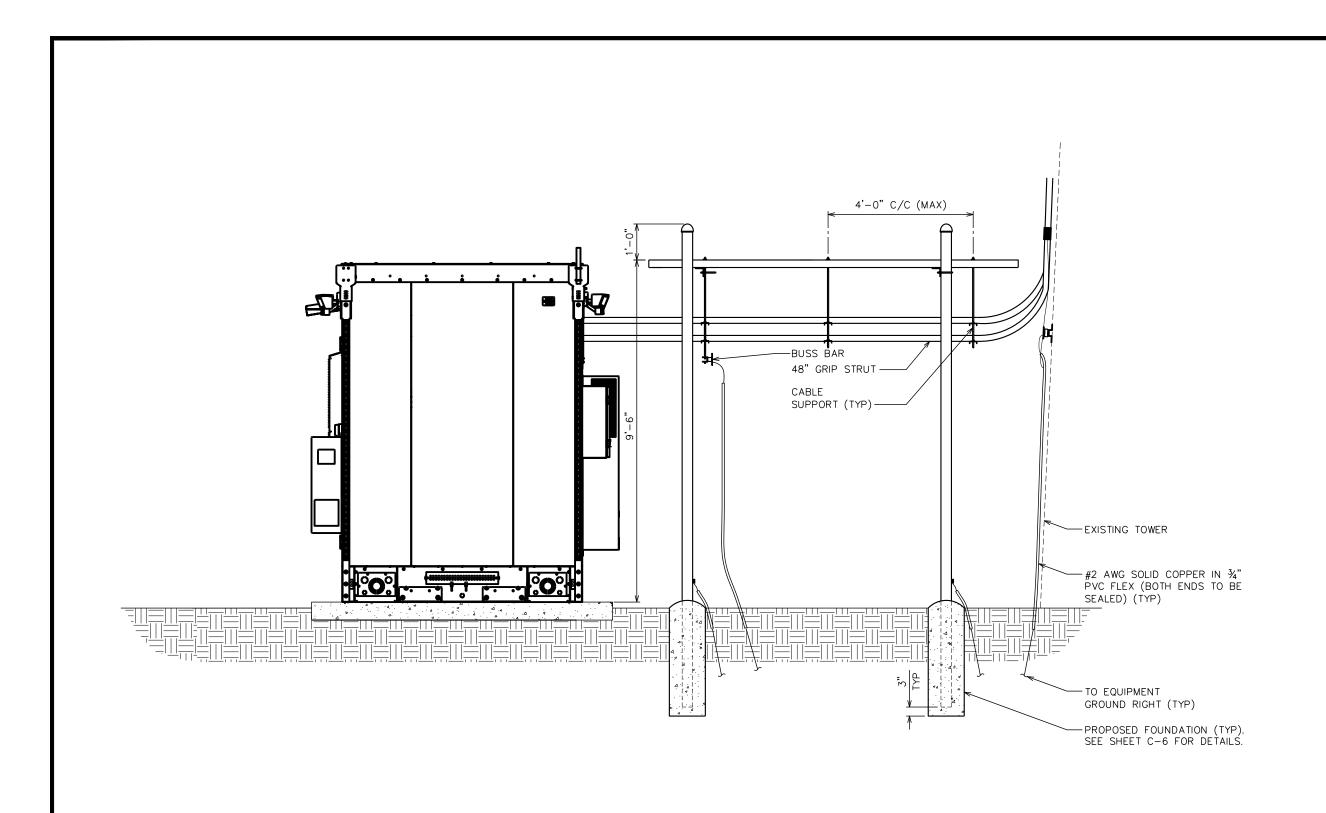
3. CONTRACTOR TO ENSURE MINIMUM 18" CLEARANCE FROM TOP OF FOUNDATION TO BASE OF WIC SHELTER.

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

SCALE: N.T.S.

AND/OR ITS ENGINEERS.





2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



LAFAYETTE, LA 70507

PROJECT INFORMATION:

#### **AT&T SITE #: 368-323**

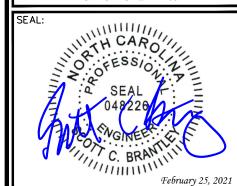
179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





#### **TOWER ENGINEERING PROFESSIONALS**

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



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**ICE BRIDGE DETAILS I** 

SHEET NUMBER:

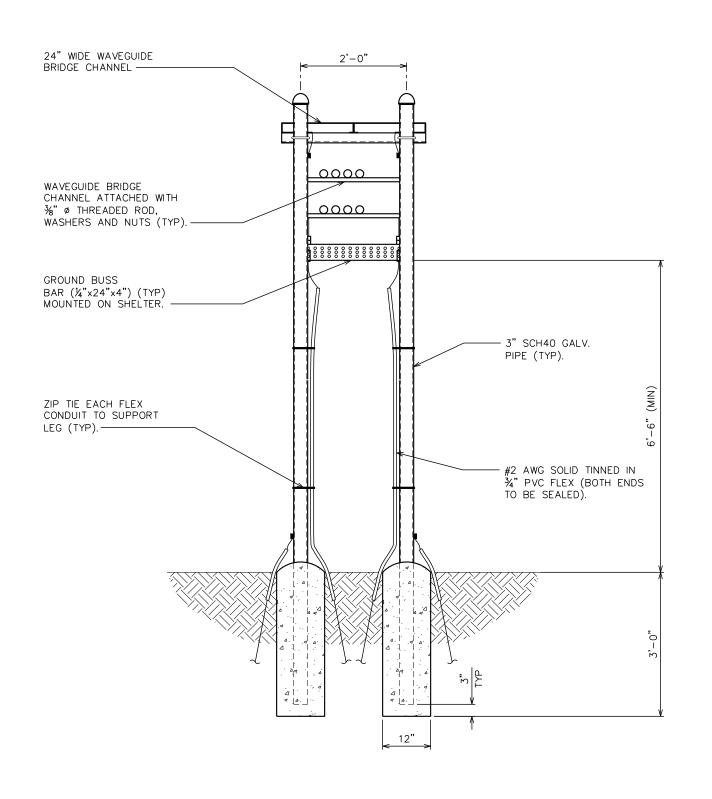
REVISION: 5

TEP#: 62631.45447

**ICE BRIDGE DETAILS - SIDE VIEW** 

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

SCALE IN FEET





PLANS PREPARED FOR:



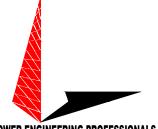
LAFAYETTE, LA 70507

PROJECT INFORMATION:

#### AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





#### **TOWER ENGINEERING PROFESSIONALS**

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



C. BRANINI February 25, 2021

	REV	DATE	ISSUED FOR:
	4	01-20-21	PRELIMINARY
Ш	5	02-25-21	CONSTRUCTION

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**ICE BRIDGE DETAILS II** 

SHEET NUMBER:

REVISION:

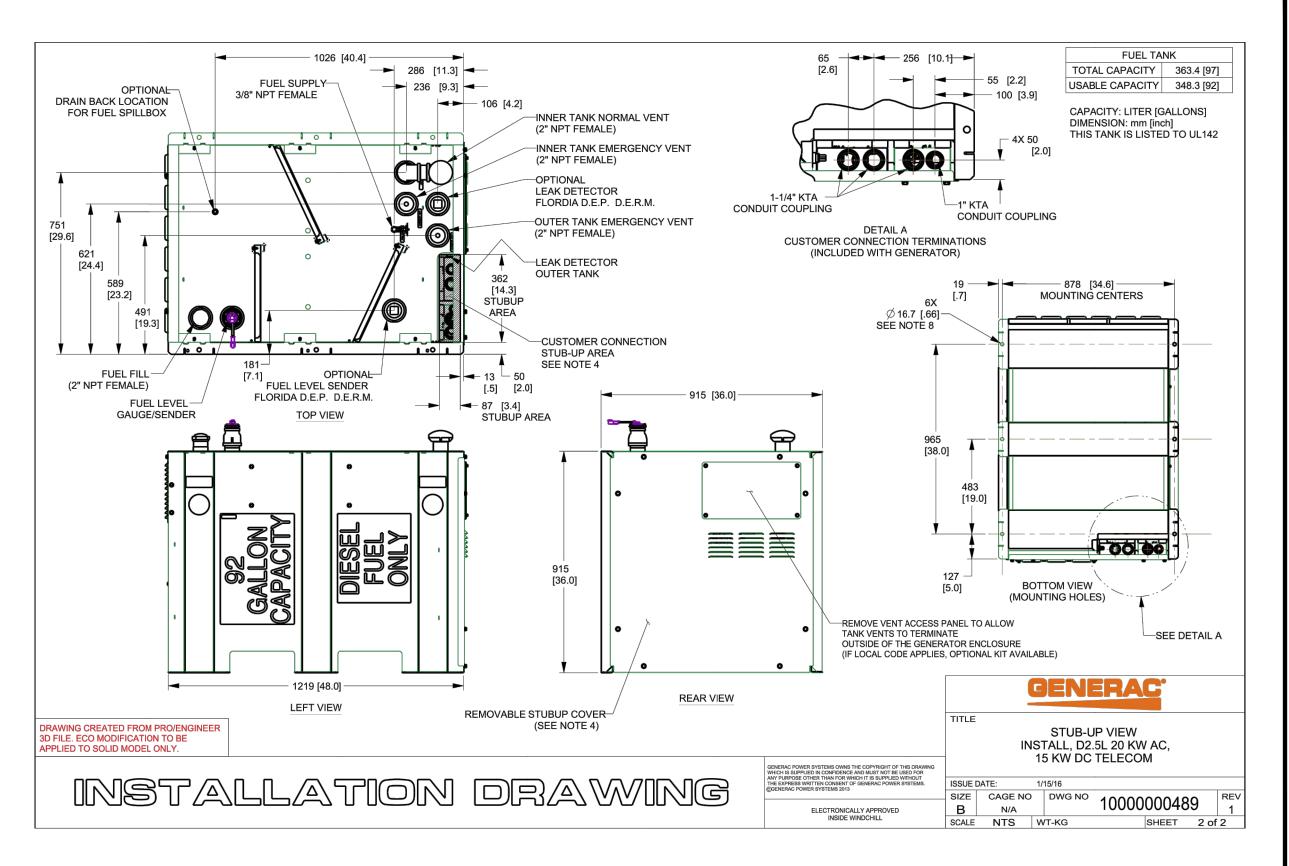
TEP#: 62631.45447

5

**ICE BRIDGE DETAILS - FRONT VIEW** 

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

SCALE IN FEET





GREENSBORO, NC 27455

PLANS PREPARED FOR:



3001 MILLS STREET LAFAYETTE, LA 70507

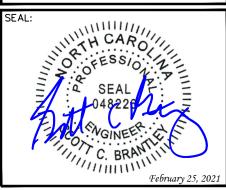
PROJECT INFORMATION:

AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



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



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

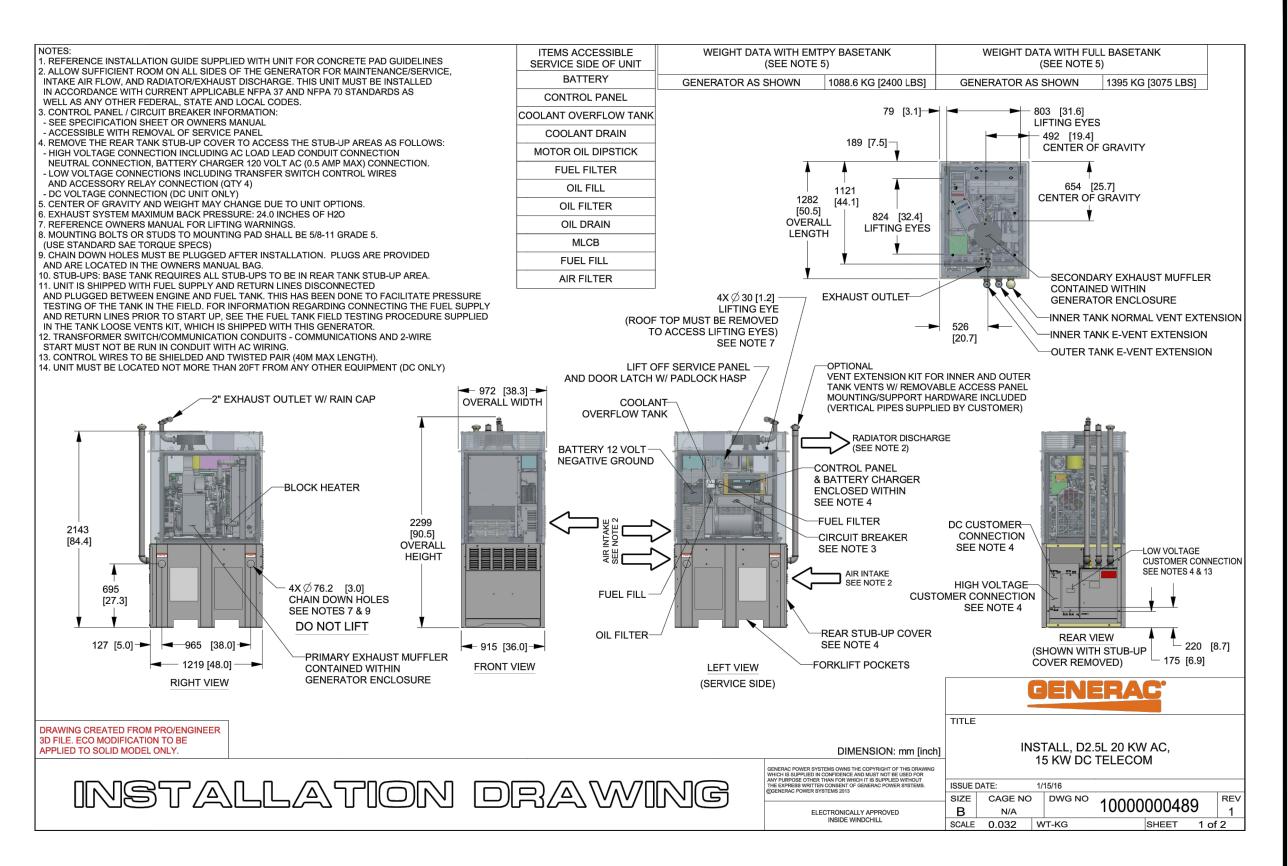
**GENERATOR** SPECIFICATIONS I

**REVISION:** 

TEP#: 62631.4544

5

**GENERATOR SPECIFICATIONS** 





PROJECT INFORMATION:

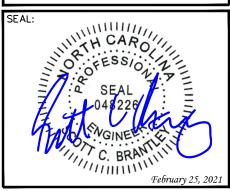
#### AT&T SITE #: 368-323

3001 MILLS STREET

LAFAYETTE, LA 70507

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

GENERATOR SPECIFICATIONS II

SHEET NUMBER

REVISION:

TEP#: 62631.45447

**GENERATOR SPECIFICATIONS** 

# 4'-0" PROPOSED STUB-UP AREA. SEE SHEETS C-7A & C-7B FOR DETAILS. -

#### NOTE:

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







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

HIGH PERFORMANCE SERVICES, LLC 3001 MILLS STREET LAFAYETTE, LA 70507

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

at&t

PROJECT INFORMATION:

PLANS PREPARED FOR:

PLANS PREPARED FOR:

#### AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



# 326 TRYON ROAD

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

THE C. BREW February 25, 2021

REV	DATE	ISSUED FOR:
4	01-20-21	PRELIMINARY
5	02-25-21	CONSTRUCTION

BSE CHECKED BY: DRAWN BY:

SHEET TITLE:

**GENERATOR FOUNDATION & SIGNAGE DETAILS** 

SHEET NUMBER:

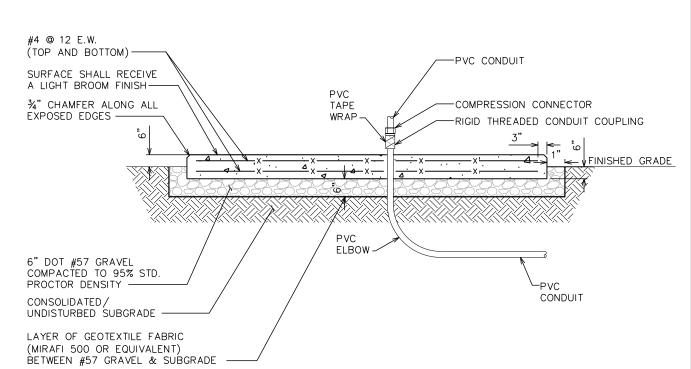
REVISION: 5

TEP#: 62631.4544

**SECTION** В SCALE IN FEET

## **PROPOSED GENERATOR SIGNAGE**

SCALE: N.T.S.

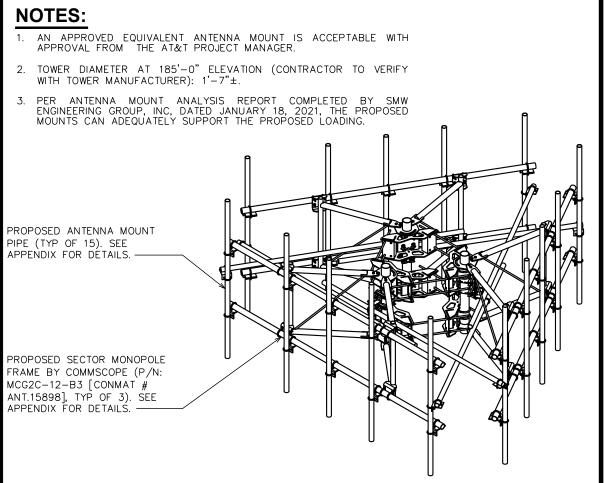


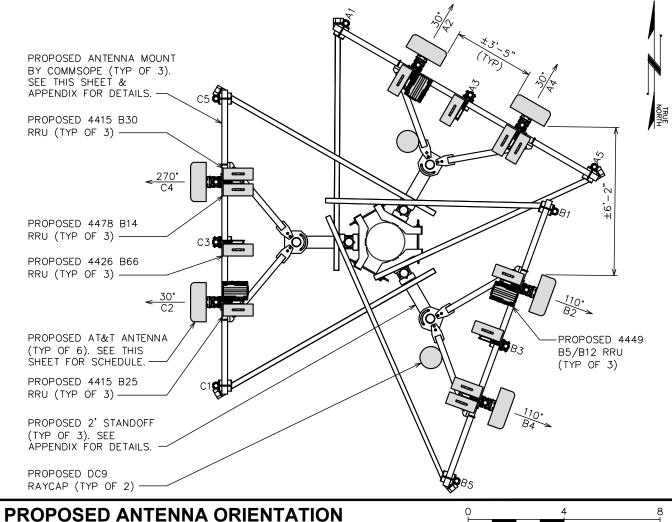
**GENERATOR FOUNDATION** 

SCALE:  $\frac{3}{4}$ " = 1'-0"

SCALE IN FEET

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





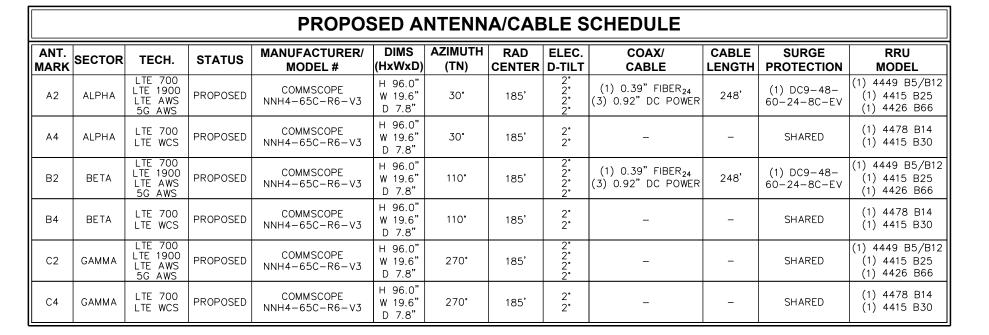
#### **GENERAL NOTES:**

SCALE:  $\frac{1}{4}$ " = 1'-0"

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.

PROPOSED MOUNT DETAIL

- 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 HIGH PERFORMANCE, AT&T RFDS ID: 4001685.
- 8. CABLE LENGTH TAKEN FROM AT&T RFDS. CONTRACTOR TO VERIFY LENGTH PRIOR TO ORDERING MATERIALS.



SCALE:  $\frac{1}{4}$ " = 1'-0"

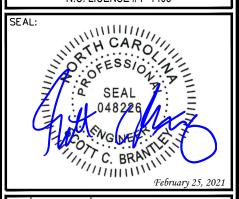
SCALE IN FEET

#### PROPOSED ANTENNA/CABLE SCHEDULE

SCALE: N.T.S



SCALE IN FEET



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

# ANTENNA MOUNTING DETAILS

SHEET NUMBER:

REVISION: **5** 

TEP#: 62631.454479

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 NOTE 3)

## 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 accordance with Federal Communications Commission rule 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 VEGAS, NV 89030 (702) 645–3338



PLANS PREPARED FOR:



PROJECT INFORMATION:

#### AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



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



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

SIGNAGE DETAILS

SHEET NUMBER

REVISION:

C-10

**5 TEP#:** 62631.45447

**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:**

GROUND

PHASE

PANEL

ΚW

NEC

PCS

РΗ

PNL

KILOWATTS

ISOLATED GROUND BAR

NATIONAL ELECTRIC CODE

INTERIOR GROUND RING (HALO)

PERSONAL COMMUNICATION SYSTEM

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:**

- 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:

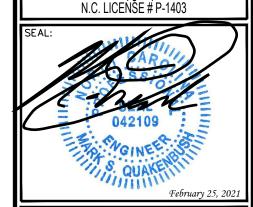


PROJECT INFORMATION:

AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





www.tepgroup.net

CONSTRUCTION **PRELIMINARY** DATE ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**ELECTRICAL** NOTES

SHEET NUMBER:

REVISION

TEP#: 62631.45447

#### **GENERAL NOTES:**

- 1. 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.
- 5. 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 PER NEC. 110-24
- 6. CONTRACTOR WILL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.
- 7. GROUNDING ELECTRODE CONDUCTOR IS SIZED FOR A SINGLE 200A SERVICE ONLY. IF METER BANK SHARES A COMMON NEUTRAL/GROUND, CONTRACTOR WILL INSTALL (1) 3/0 COPPER GEC INSTEAD.

#### **ONE-LINE DIAGRAM NOTES:**

- 1. ELECTRICAL SERVICE SHALL BE 200A, 120/240V, 1ø, 3W.
- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.



HIGH PERFORMANCE SERVICES, LLC 3001 MILLS STREET LAFAYETTE, LA 70507

PROJECT INFORMATION:

PLANS PREPARED FOR:

#### AT&T SITE #: 368-323

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)





5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

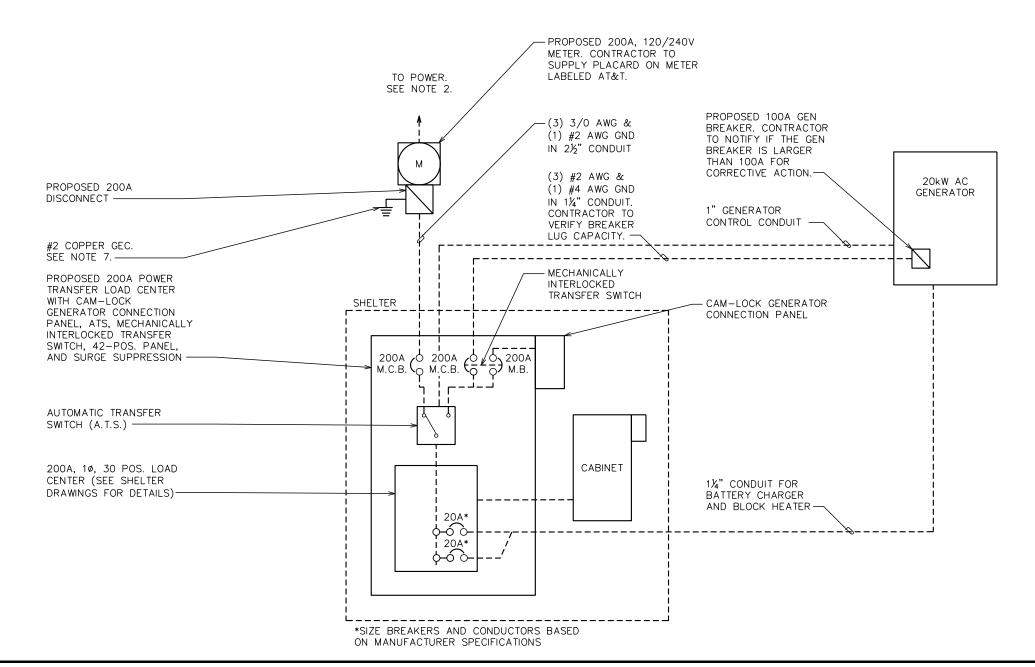
SHEET TITLE:

ONE-LINE DIAGRAM

SHEET NUMBER:

REVISION: 5

TEP#: 62631.45447



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

		PROPOSED 200A, 120/240 VAC AT&T POWER PANEL SCHEDULE												
LOAD SERVED	VOLT A (WA	MPERES TTS) L2	WIRE	BR P	EAKER TRIP	CKT #	PHASE	CKT #	BREA TRIP	KER P	WIRE	VOLT A (WA	MPERES TTS)	LOAD SERVED
RECTIFIER #1	2000		10			1	A	2	20	1	12	360		GFCI RECEPTACLES
RECTIFIER #1		2000	10	2	30	3		4	30	2	10		2000	RECTIFIER #3
RECTIFIER #2	2000		10	2	30	5	<u>_</u>	6	30	2	10	2000		RESTITEN #3
		2000	10		30	7	_ <u>B</u>	8	20	1	12		1200	GEN. BATTERY CHARGER
BLANK	_		_	_	_	9		10	20	1	12	1000		GEN. BLOCK HEATER
BEART		-				11		12		_	_		_	BLANK
BLANK	_		_	_	_	13	<u>_</u>	14				-		52
		-				15	╅┸	16		_	_		_	BLANK
BLANK	_		_	_	_	17	<u></u>	18				-		
		-				19	<u></u>	20		_	_		_	BLANK
BLANK	_		_	_	_	21	<u>-</u>	22				-		
		-				23	$\frac{1}{2}$	24		_	_		_	BLANK
HVAC	1920		12	2	20	25	<u>-</u>	26				-		
		1920				27	$\frac{B}{\cdot}$	28	20	1	12		200	FLOOD LIGHTS
APPLIANCE OUTLETS	180		12	2	20	29		30	_	_	_	_		BLANK
VOLT AMPS	6100	5920										3360	3400	VOLT AMPS
			L	1 VOL	T AMPER	ES 9	460 9	320	L2 VOLT A	MPERE	S			
					L1 AMF	°S 7	8.8 7	7.7	L2 AMPS					
							78.8		MAX AMPS	5				
OTE: NTRACTOR TO LIMIT TO							97.9		*MAX AMPS	S X 12	:5%			



PLANS PREPARED FOR:



PROJECT INFORMATION:

#### **AT&T SITE #: 368-323**

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



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

042109

WGINEE STATES OUAKEN

5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY: CSN

SHEET TITLE:

PANEL SCHEDULE

SHEET NUMBER: **E-2B** 

REVISION:

TEP#: 62631.45447

PANEL SCHEDULE

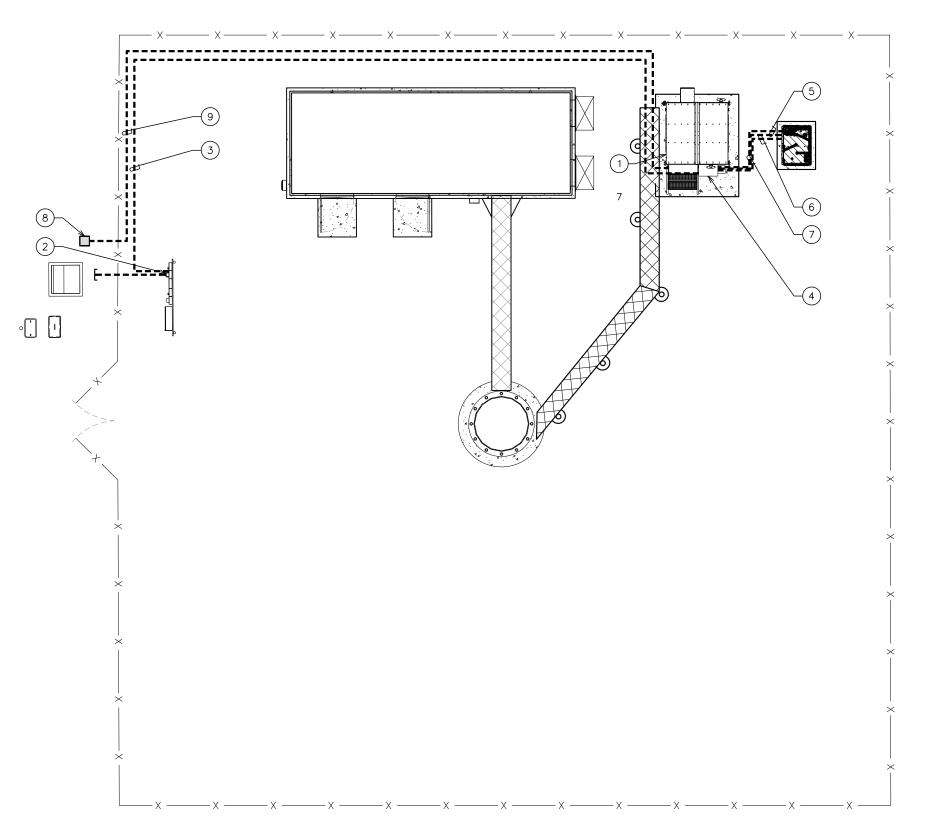
SCALE: N.T.S.

#### **TRENCHING NOTES:**

- PRIOR TO ANY DIGGING, THE CONTRACTOR SHALL IDENTIFY ALL EXISTING UTILITIES ON
- 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)  $1\frac{1}{4}$ " Power conduit from ats inside load center to proposed 20kW ac GENERATOR
- 6 (1) 1¼" CONDUIT FROM LOAD CENTER TO PROPOSED 20kW AC GENERATOR FOR BATTERY CHARGER AND BLOCK HEATER
- (1) 1" GENERATOR CONTROL CONDUIT FROM THE ATS TO PROPOSED 20kW AC GENERATOR
- PROPOSED FIBER MEET-ME POINT. LOCATION (8) IS TO BE ESTABLISHED WITH THE LEC PRIOR TO INSTALLATION
- (1) 4" TELCO CONDUIT W/ (3) 1¼" FLEX INTERDUCT & PULL STRING FOR FIBER POWER LEADS STUBBED UP IN FIBER HANDHOLE. CONTRACTOR TO COORDINATE SERVICE WITH LOCAL TELEPHONE COMPANY.





2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



PROJECT INFORMATION:

#### **AT&T SITE #: 368-323**

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)

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



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
RΕV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

SERVICE **ROUTING PLAN** 

SHEET NUMBER:

REVISION: 5

TEP#: 62631.45447

**SERVICE ROUTING PLAN** 

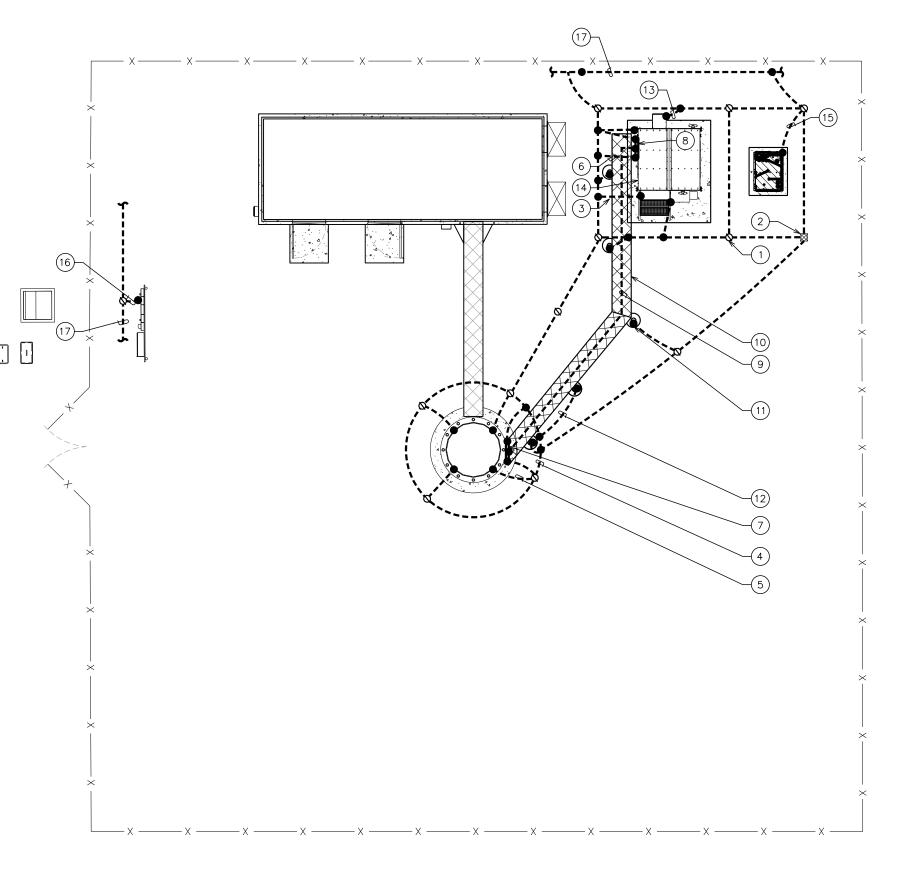
10 SCALE IN FEET



- GROUND ROD %"x10' LONG (TYP)
- GROUND ROD WITH INSPECTION WELL (TYP)
- CADWELD (TYP)
- TOWER GROUND RING
- (2) #2 AWG SOLID BARE TINNED COPPER BONDS BETWEEN TOWER AND TOWER GROUND RING (INSTALL (2) LEADS ON RING ON EITHER SIDE OF THE GROUND ROD IN OPPOSITE DIRECTIONS ON RING. (1) MINIMUM BOND PER TOWER LEG AND (2) MINIMUM BONDS PER TOWER).
- #2 AWG BARE SOLID BARE TINNED COPPER WIRE GROUND RING (SHELTER)
- PROPOSED BOTTOM TOWER BUS BAR
- 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 RING
- #2 AWG BOND BONDING PROPOSED METER TO EXISTING EARTH GROUND GROUND SYSTEM
- EXISTING EARTH GROUND SYSTEM (CONTRACTOR TO VERIFY)

#### **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 THÉ 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.





2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



PROJECT INFORMATION:

#### **AT&T SITE #: 368-323**

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)

PLANS PREPARED BY:



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



5	02-25-21	CONSTRUCTION
4	01-20-21	PRELIMINARY
EV	DATE	ISSUED FOR:

DRAWN BY: BSE CHECKED BY:

SHEET TITLE:

**GROUNDING PLAN** 

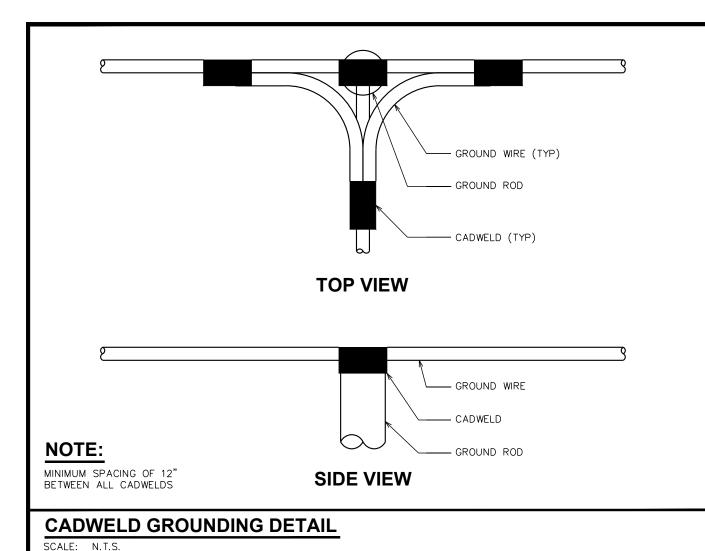
SHEET NUMBER:

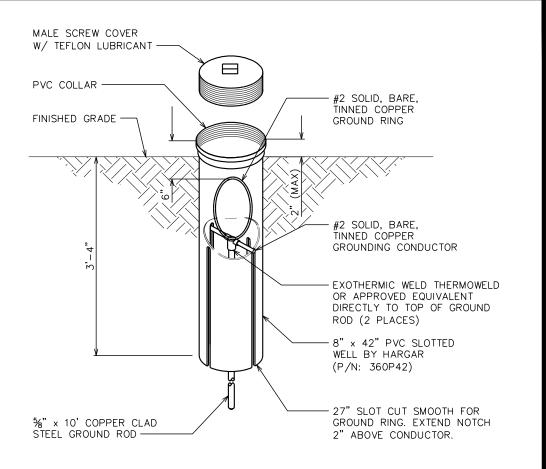
REVISION: 5

TEP#: 62631.45447

**TOWER GROUNDING PLAN** 

10 SCALE IN FEET







SCALE: N.T.S.

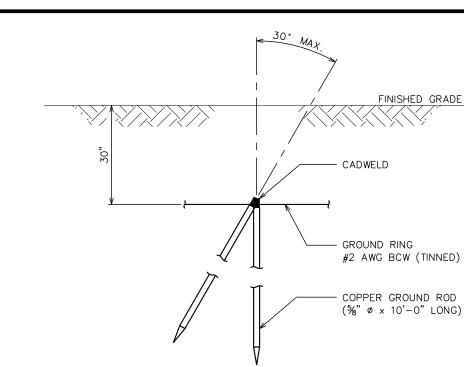
WALL MOUNTING BRACKET,

NEWTON INSTRUMENT CO.

NEWTON INSTRUMENT CO. (CAT.# 3061-4)

(CAT. # A-6056)

INSULATORS,



## **COPPER-CLAD STEEL GROUND ROD DETAIL**

PLANS PREPARED FOR: at&t

2002 PISGAH CHURCH ROAD, SUITE 300 GREENSBORO, NC 27455

PLANS PREPARED FOR:



3001 MILLS STREET LAFAYETTE, LA 70507

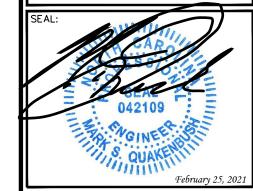
PROJECT INFORMATION:

**AT&T SITE #: 368-323** 

179 DEAN RD LILLINGTON, NC 27546 (HARNETT COUNTY)



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



CONSTRUCTION PRELIMINARY 01-20-2 DATE ISSUED FOR: REV

BSE CHECKED BY: DRAWN BY:

SHEET TITLE:

**GROUNDING DETAILS I** 

SHEET NUMBER:

REVISION: 5

TEP#: 62631.45447

## NOTE:

GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED AS WELL AS PROVIDE 50% SPARE CAPACITY

COPPER GROUND BAR 1/4"x4"x20" MIN.

NEWTON INSTRUMENT CO. CAT. # B-6142. HOLE CENTERS TO MATCH NEMA DOUBLE

% - 11×1" H.H.C.S. BOLT,

NEWTON INSTRUMENT CO.

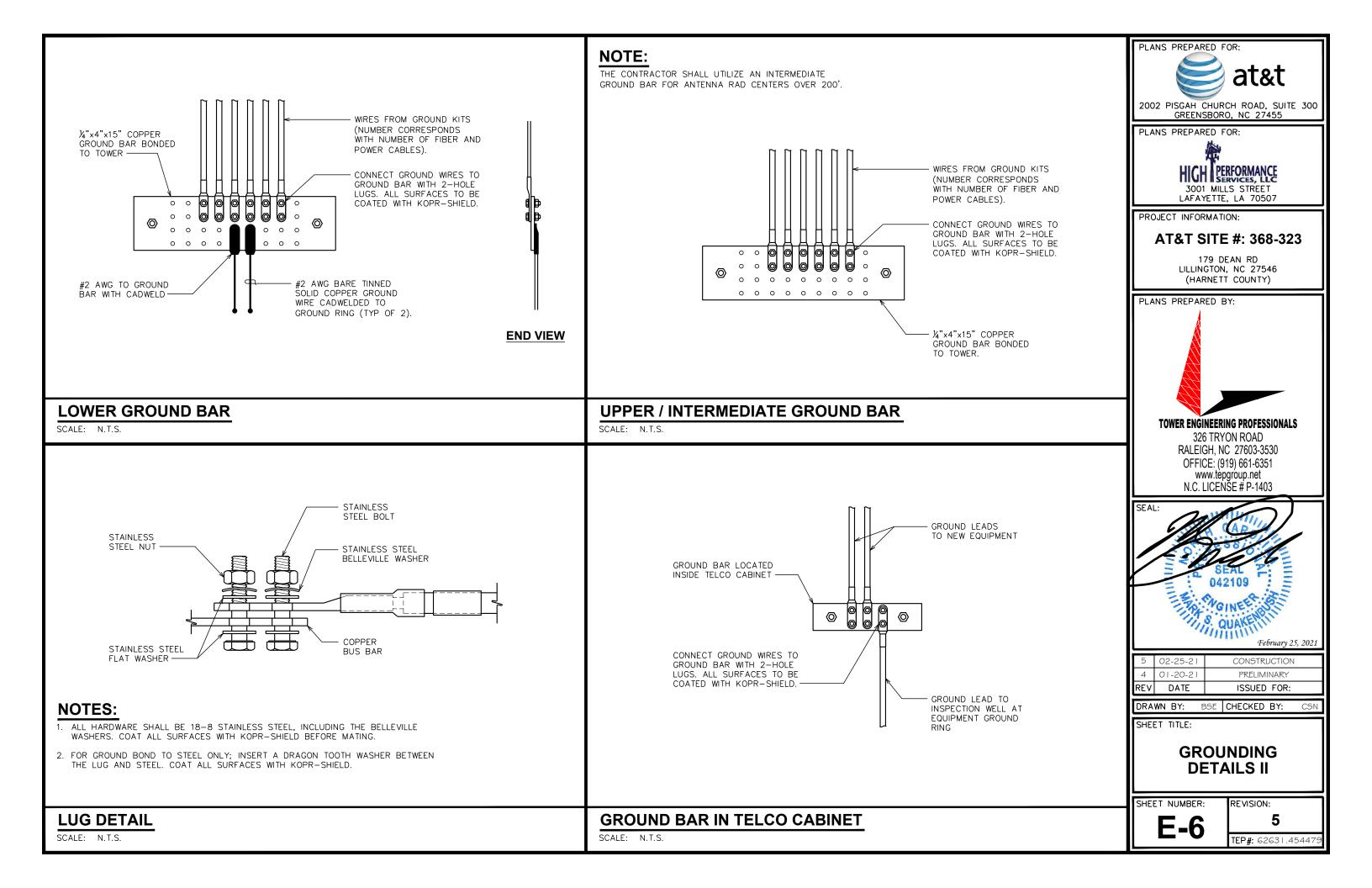
(CAT.# 3012-1) -

%" LOCKWASHER, NEWTON INSTRUMENT CO.

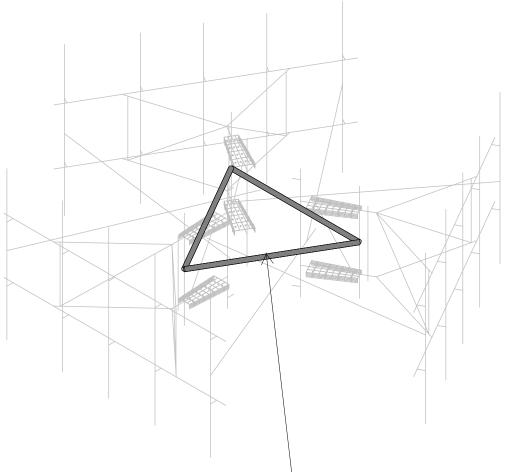
(CAT.# 3015-8)-

LUG CONFIGURATION

#### STANDARD GROUND BAR DETAIL

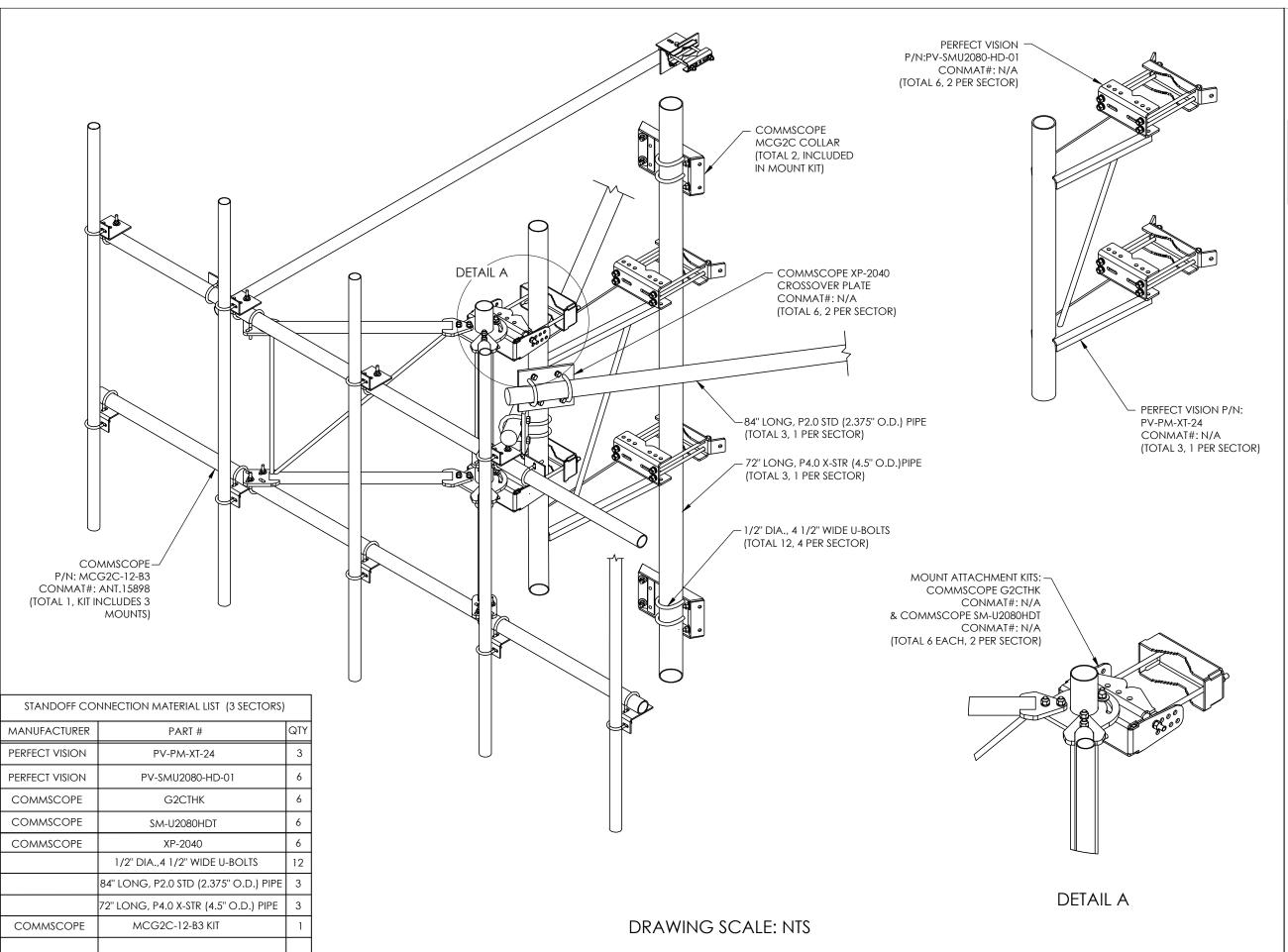






PROPOSED 84" LONG (F.V.) x 2.0" STD (2.38" O.D.) PIPES CONNECTING THE STANDOFF VERTICALS AND INSTALLED AT THE MIDPOINT BETWEEN STANDOFF ARMS USING COMMSCOPE CROSSOVER PLATES P/N: XP-2040 (CONMAT: N/A) (3 TOTAL, 1 PER SECTOR)

AT&T		Proposed Design
SMW	368-323	Jan 18, 2021 at 4:20 PM
		368-323_Full.r3d







	RI	EVISIONS	
REV.	DATE	DESCRIPTION	INITIALS
0	08/17/20	CONSTRUCTION	KJT
1	09/22/20	BRACKET KITS ADDED	KJT
2	09/28/20	CONSTRUCTION	KJT
		CONSTRUCTIONS UN AS CONSTRUCTION	

368-323 CONNECTION DETAILS

S-1

## XP-2040



Crossover Plate, joins 2-3/8 in to 4-1/2 in OD round members

#### **Product Classification**

Product Type Clamp plate

## General Specifications

MountingCrossover plateTower TaperNon-tapered

#### **Dimensions**

 Height
 127 mm | 5 in

 Width
 254 mm | 10 in

 Length
 304.8 mm | 12 in

 Mounting Diameter, maximum
 88.9 mm | 3.5 in

 Mounting Diameter, minimum
 60.96 mm | 2.4 in

## Material Specifications

Material Type Hot dip galvanized steel

#### Packaging and Weights

Included Plates | U-bolts

Packaging quantity 1

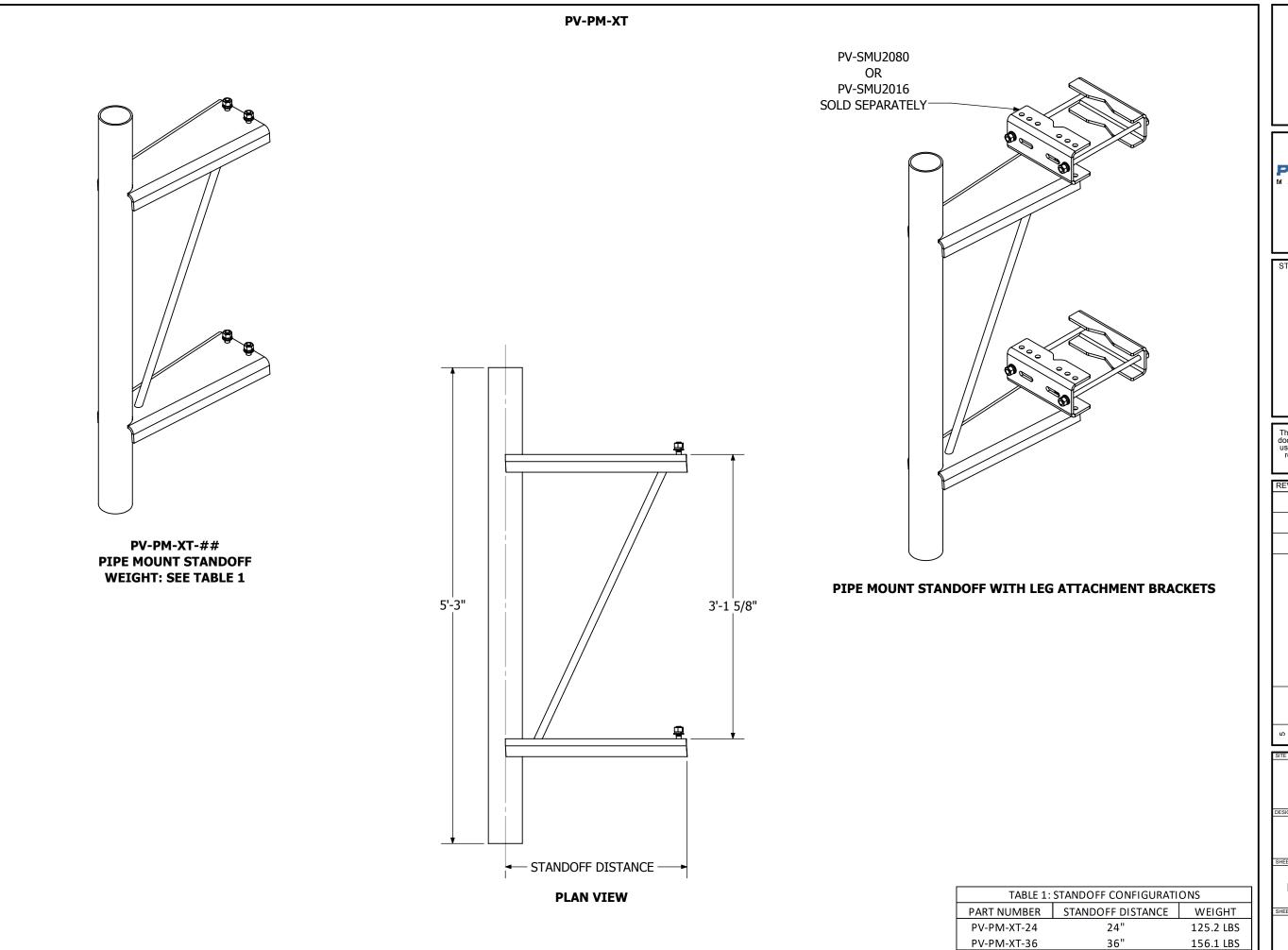
**Weight, net** 5 kg | 11.023 lb

### Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

COMMSCOPE°







16101 La Grande Dr. Little Rock, AR 72223 (630)-201-4012

STAMP:

The information contained in this set of documents is proprietary by nature. any use or disclosure other than that which relates to the client named is strictly prohibited.

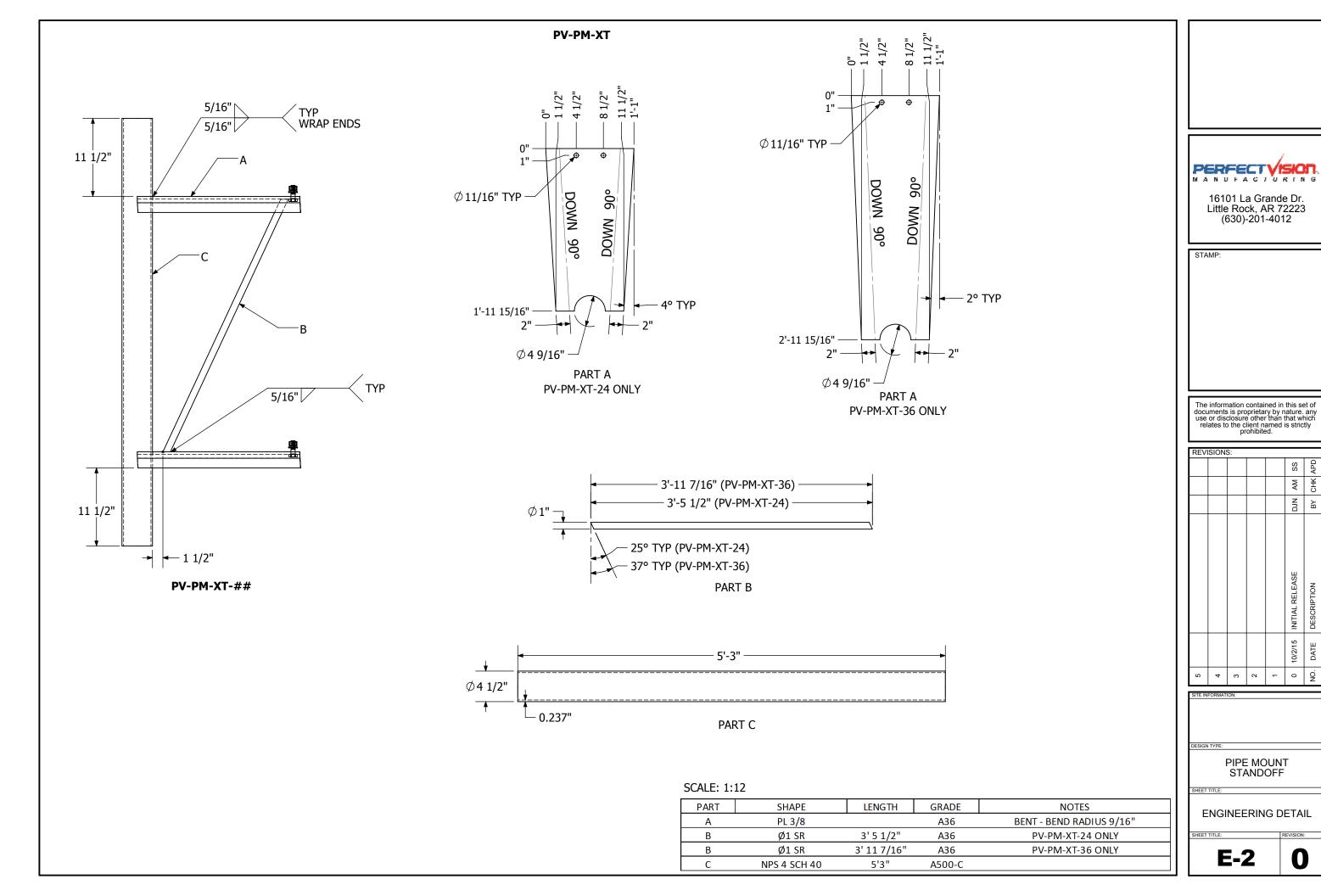
REVI	SIONS	S:				
					SS	APD
					DJN AM	BY CHK APD
					NN	ВУ
					INITIAL RELEASE	DESCRIPTION
					10/2/15	DATE
9	4	3	2	1	0	NO.

SITE INFORMATION:
DESIGN TYPE:

PIPE MOUNT STANDOFF

**ENGINEERING DETAIL** 

**E-1** 



Pa By

