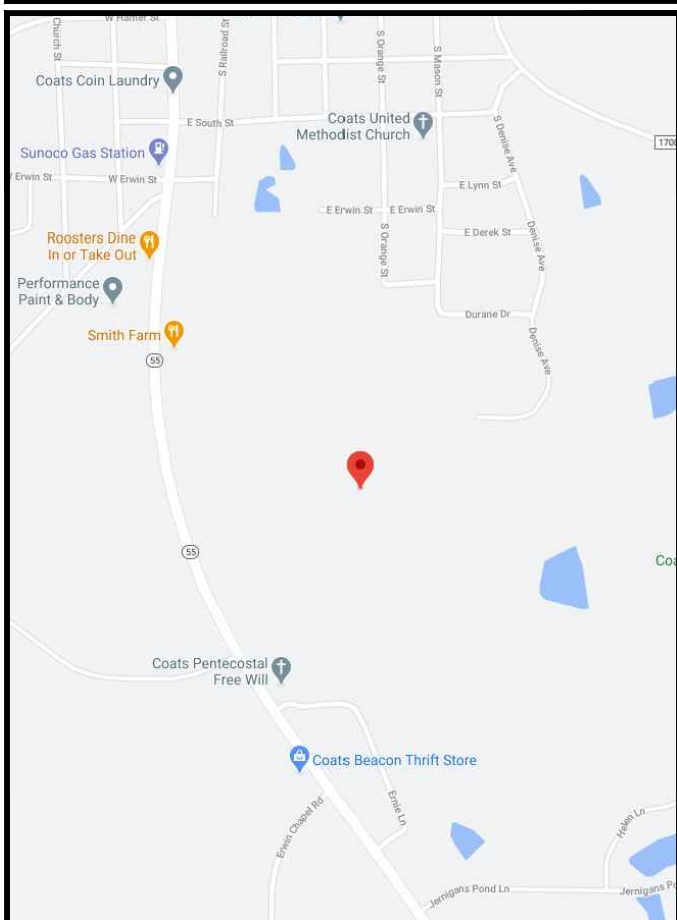


AT&T SITE #: 368-355
 PROJECT DESCRIPTION: LTE 4C UPGRADE
 PACE JOB #: MRVWN006085
 TOWER TYPE: 225' MONOPOLE
 SITE ADDRESS: 1275 NC 55 EAST
 COATS NC, 27521
 (HARNETT COUNTY)
 JURISDICTION: CITY OF COATS
 PRESENT OCCUPANCY TYPE: TELECOMMUNICATIONS FACILITY
 CURRENT ZONING: INDUSTRIAL
 PIN #: 0599-98-5894.000

PROJECT INFORMATION


LATITUDE: N 35° 23' 48.19" (35.3967222) *
 LONGITUDE: W 78° 40' 05.74" (-78.6682611) *
 GROUND ELEVATION: ± 289' (AMSL)*
 *INFORMATION PROVIDED BY AT&T

SITE COORDINATES



LOCATION MAP

PROJECT INFORMATION:



at&t

**1275 NC 55 EAST
 COATS NC, 27521
 (HARNETT COUNTY)**

**AT&T SITE #: 368-355
 FA LOCATION CODE: 10034555**

TOWER OWNER:
 NAME: SBA
 ADDRESS: 8051 CONGRESS AVE
 CITY, STATE, ZIP: BOCA RATON, FL 33487
 CONTACT: OFFICE
 PHONE: (800) 487-7483

APPLICANT/LESSEE:
 NAME: AT&T MOBILITY
 ADDRESS: 2002 PISGAH CHURCH RD, ST 300
 CITY, STATE, ZIP: GREENSBORO, NC 27455
 CONTACT: KEN WELKER
 PHONE: (336) 549-9987
 NOC #: (800) 638-2822

SITE PROJECT MANAGER:
 NAME: HIGH PERFORMANCE SERVICES
 ADDRESS: 111 EAST SAINT PETER STREET
 CITY, STATE, ZIP: CARENCRO, LA 70520
 CONTACT: ALEXIS ADAMS
 PHONE: (337) 565-2921

CIVIL ENGINEER:
 NAME: TOWER ENGINEERING PROFESSIONALS
 ADDRESS: 326 TRYON ROAD
 CITY, STATE, ZIP: RALEIGH, NC 27603
 CONTACT: SCOTT C. BRANTLEY, P.E.
 PHONE: (919) 661-6351

ELECTRICAL ENGINEER:
 NAME: TOWER ENGINEERING PROFESSIONALS
 ADDRESS: 326 TRYON ROAD
 CITY, STATE, ZIP: RALEIGH, NC 27603
 CONTACT: MARK S. QUAKENBUSH, P.E.
 PHONE: (919) 661-6351

CONTACT INFORMATION

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 (2018 EDITION)
2. NORTH CAROLINA CODE COUNCIL
3. ANSITIA-222-G-2009
4. NCEC 2017 (NEC 2017 + NC ADDENDUM)
5. LOCAL BUILDING CODE
6. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

UTILITIES:
 POWER COMPANY: DUKE ENERGY
 CONTACT: CUSTOMER SERVICE
 PHONE: (800) 777-9898
 METER # NEAR SITE: UNKNOWN

TELEPHONE COMPANY: CENTURYLINK
 CONTACT: CUSTOMER SERVICE
 PHONE: (888) 723-8010
 PHONE # NEAR SITE: (910) 897-5493
 PEDESTAL # NEAR SITE: UNKNOWN

APPLICANT/LESSEE:



2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455
 OFFICE: (336) 255-8081
 NOC #: (800) 638-2822

PLANS PREPARED FOR:

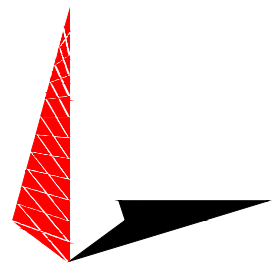


111 EAST SAINT PETER STREET
 CARENCRO, LA 70520
 OFFICE: (337) 565-2921

SHEET	DESCRIPTION	REV
T1	TITLE SHEET	2
T2-T6	APPENDIX B	2
N1	GENERAL NOTES	2
C1	TOWER ELEVATION & EXISTING ANTENNA SCHEDULE	2
C1A	EXISTING ANTENNA ORIENTATION	2
C1B	PROPOSED ANTENNA ORIENTATION	2
C1C	PROPOSED ANTENNA/CABLE SCHEDULE	2
C2	EQUIPMENT LAYOUT	2
E1	ELECTRICAL NOTES	2
E2	TYPICAL LTE ONE-LINE DIAGRAM	2
E3	TYPICAL LTE RISER DIAGRAM	2

INDEX OF SHEETS

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

REV	DATE	ISSUED FOR:
2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
0	09-24-20	PRELIMINARY


DRAWN BY: ER CHECKED BY: BSE

SEAL:



October 6, 2020

SEAL:



October 6, 2020

SHEET NUMBER: **T-1** REVISION: **2**
 TEP#: 43027.445632

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: AT&T 368-355 FA# 10034555
 Address: 1275 NC 55 EAST COATS, NC Zip Code 27521
 Owner/Authorized Agent: KEN WELKER (AT&T) Phone # (336) 549 - 9987 E-Mail _____
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City COATS County _____ State _____

CONTACT: Tower Engineering Professionals

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				()	
Civil	<u>Tower Engineering Professionals</u>	<u>Scott C. Brantley</u>	<u>048226</u>	<u>(919) 661-6351</u>	<u>sbrantley@tepgroup.net</u>
Electrical	<u>Tower Engineering Professionals</u>	<u>Mark S. Quakenbush</u>	<u>042109</u>	<u>(919) 661-6351</u>	<u>mquakenbush@tepgroup.net</u>
Fire Alarm				()	
Plumbing				()	
Mechanical				()	
Sprinkler-Standpipe				()	
Structural				()	
Retaining Walls >5' High				()	
Other				()	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building Addition Renovation
 1st Time Interior Completion
 Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
 Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14
 Alteration: Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____

OCCUPANCY CATEGORY (Table 1604.5): **Current:** I II III IV
Proposed: I II III IV

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
 (check all that apply) I-B II-B III-B V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes **Flood Hazard Area:** No Yes
Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor		N/A	
2 nd Floor		N/A	
Mezzanine		N/A	
1 st Floor			
Basement			
TOTAL			

**N/A
NO CHANGE**

Primary Occupancy Classification(s): Select one Select one Select one Select one

- Assembly A-1 A-2 A-3 A-4 A-5
- Business
- Educational
- Factory F-1 Moderate F-2 Low
- Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
- Institutional I-1 Condition 1 2
 I-2 Condition 1 2
 I-3 Condition 1 2 3 4 5
 I-4
- Mercantile
- Residential R-1 R-2 R-3 R-4
- Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
- Utility and Miscellaneous

Accessory Occupancy Classification(s): N/A

Incidental Uses (Table 509): N/A

Special Uses (Chapter 4 – List Code Sections): N/A

Special Provisions: (Chapter 5 – List Code Sections): N/A

Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____

Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Use (508.4) - See below for area calculation. For each story, the area of the occupancy shall be such that the sum of the actual floor area of each use divided by the allowable floor area for that occupancy shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$+ \dots = \dots \leq 1.00$$

**N/A
NO CHANGE**

PLANS PREPARED FOR:

 2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455


PLANS PREPARED FOR:

 111 EAST SAINT PETER STREET
 CARENCRO, LA 70520

PROJECT INFORMATION:
AT&T SITE #: 368-355
 1275 NC 55 EAST
 COATS NC, 27521
 (HARNETT COUNTY)

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:

 October 6, 2020

2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:
APPENDIX B

SHEET NUMBER: **T-2** REVISION: **2**
 TEP#: 43027.445632

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}

- ¹ Frontage area increases from Section 506.2 are:
- Perimeter which fronts a public way
 - Total Building Perimeter
 - Ratio (F/P) = _____ (F/P)
 - W = Minimum width of public way
 - Percent of frontage increase = _____ x W/30 = _____ (%)
- ² Unlimited area applicable under conditions of Section 507.
- ³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- ⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.4.1.
- ⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	PLANS	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" quantity is not by

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (W/REDUCTION)*				
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction							
Including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



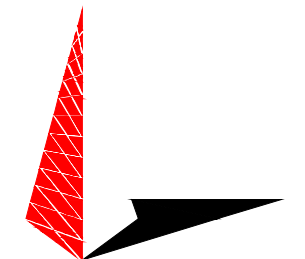
111 EAST SAINT PETER STREET
CARENCRO, LA 70520

PROJECT INFORMATION:

AT&T SITE #: 368-355

1275 NC 55 EAST
COATS NC, 27521
(HARNETT COUNTY)

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:



October 6, 2020

2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:

APPENDIX B

SHEET NUMBER: T-3	REVISION: 2
TEP#: 43027.445632	

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

N/A
NO CHANGE

LIFE SAFETY PLAN REQUIREMENTS

Emergency Lighting: Yes No

Exit Signs: Yes No

Fire Alarm: Yes No

Smoke Detection Systems: Yes No

Panic Hardware: Yes No

LIFE SAFETY PLAN REQUIREMENTS

- Life Safety Plan Sheet #: _____
- Fire and/or smoke rated wall locations (Chapter 7)
 - Assumed and real property line locations (if not on the site plan)
 - Exterior wall opening area with respect to distance to assumed property lines (705.8)
 - Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 - Occupant loads for each area
 - Exit access travel distances (1017)
 - Common path of travel distances (Tables 1006)
 - Dead end lengths (1020.4)
 - Clear exit widths for each exit door
 - Maximum calculated occupant load and area to accommodate based on egress width (1005.3)
 - Actual occupant load for each exit
 - A separate schematic plan indicating floor/ceiling and/or roof structure is provided for purposes of occupancy separation (1010)
 - Location of doors with panic hardware (1010.1.9.7)
 - Location of doors with delayed egress and the amount of delay (1010.1.9.7)
 - Location of doors with electromagnetic egress locks (1010.1.9.9)
 - Location of doors equipped with hold-open devices
 - Location of emergency escape windows (1030)
 - The square footage of each fire area (202)
 - The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 - Note any code exceptions or table notes that may have been utilized regarding the items above

N/A
NO CHANGE

ACCESSIBLE DWELLING UNITS (SECTION 1107)							
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

N/A
NO CHANGE

LOT OR PARKING AREA	TOTAL # OF PARKING REQUIRED	ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
		132" ACCESS AISLE	8' ACCESS AISLE	VAN SPACES WITH	
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	SPACE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEM	UNISEX		REGULAR	ACCESSIBLE
EXIST'G											
NEW											
REQ'D											

N/A
NO CHANGE

Special approval: (Local Jurisdiction, Department of Health, etc., describe below)

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



111 EAST SAINT PETER STREET
CARENCRO, LA 70520

PROJECT INFORMATION:

AT&T SITE #: 368-355

1275 NC 55 EAST
COATS NC, 27521
(HARNETT COUNTY)


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:



October 6, 2020

2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:

APPENDIX B

SHEET NUMBER: **T-4**

REVISION: **2**

TEP#: 43027.445632

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 reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (Provide code of compliance) (remainder of this section is not applicable)

Exempt Building: No Yes (Provide code of compliance)

Climate Zone: 3A 4A 5A

Method of Compliance: Energy Prescriptive

N/A
NO CHANGE

THERMAL ENVELOPE (Prescriptive)

Roof/ceiling Assembly (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Skylights in each assembly: _____
 U-Value of skylight: _____
 total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors 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 unconditioned space (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors slab on grade

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Horizontal/vertical requirement: _____
 slab heated: _____

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

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) _____
 Seismic (I_E) _____

Live Loads: Roof _____ psf
 Mezzanine _____ psf
 Floor _____ psf

Ground Snow Load: _____ psf

Wind Load: Basic Wind Speed _____ (ASCE-7)
 Exposure Category _____

SEISMIC DESIGN CATEGORY:

Provide the following Seismic Design Risk Category (Table 1601-ASCE 7)
 Risk Category I II III IV
 Spectral Response Acc. 1 2 3 4 S₁ _____ %g

Site Classification (ASCE 7) B C D E F
 Data Source: Field Test Presumptive Historical Data

Basic structural system Bearing Wall 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? Yes No

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 _____

N/A
NO CHANGE

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455

PLANS PREPARED FOR:



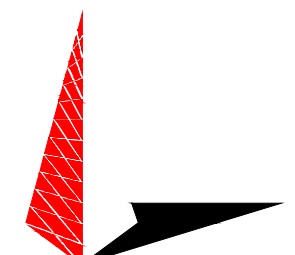
111 EAST SAINT PETER STREET
 CARENCR0, LA 70520

PROJECT INFORMATION:

AT&T SITE #: 368-355

1275 NC 55 EAST
 COATS NC, 27521
 (HARNETT COUNTY)

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:



October 6, 2020

2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:

APPENDIX B

SHEET NUMBER: T-5	REVISION: 2
TEP#: 43027.445632	

PLANS PREPARED FOR:

 2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455


PLANS PREPARED FOR:

 111 EAST SAINT PETER STREET
 CARENCR0, LA 70520

PROJECT INFORMATION:
AT&T SITE #: 368-355
 1275 NC 55 EAST
 COATS NC, 27521
 (HARNETT COUNTY)

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:

 October 6, 2020

2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER | CHECKED BY: BSE

SHEET TITLE:
APPENDIX B

SHEET NUMBER: **T-6** | REVISION: **2**
 TEP#: 43027.445632

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
 MECHANICAL DESIGN
 (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
 winter dry bulb: _____
 summer dry bulb: _____

Interior design conditions
 winter dry bulb: _____
 summer dry bulb: _____
 relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System

Unitary
 description of unit: _____
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____

Boiler
 Size category. If oversized, state reason.: _____

Chiller
 Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

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 Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive

Lighting schedule (each fixture type)
 lamp type required in fixture: _____
 number of lamps in fixture: _____
 ballast type used in fixture: _____
 number of ballasts: _____
 total wattage per fixture: _____
 total interior wattage allowed (whole building or space by space): _____
 total exterior wattage allowed: _____

Additional Efficiency Package Options
 (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

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-G-2-2009. 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.
5. 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.
6. 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.

GENERAL NOTES

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



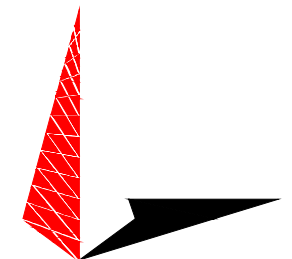
111 EAST SAINT PETER STREET
CARENCRO, LA 70520

PROJECT INFORMATION:

AT&T SITE #: 368-355

1275 NC 55 EAST
COATS NC, 27521
(HARNETT COUNTY)

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:



October 6, 2020

2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:

**GENERAL
NOTES**

SHEET NUMBER:

N-1

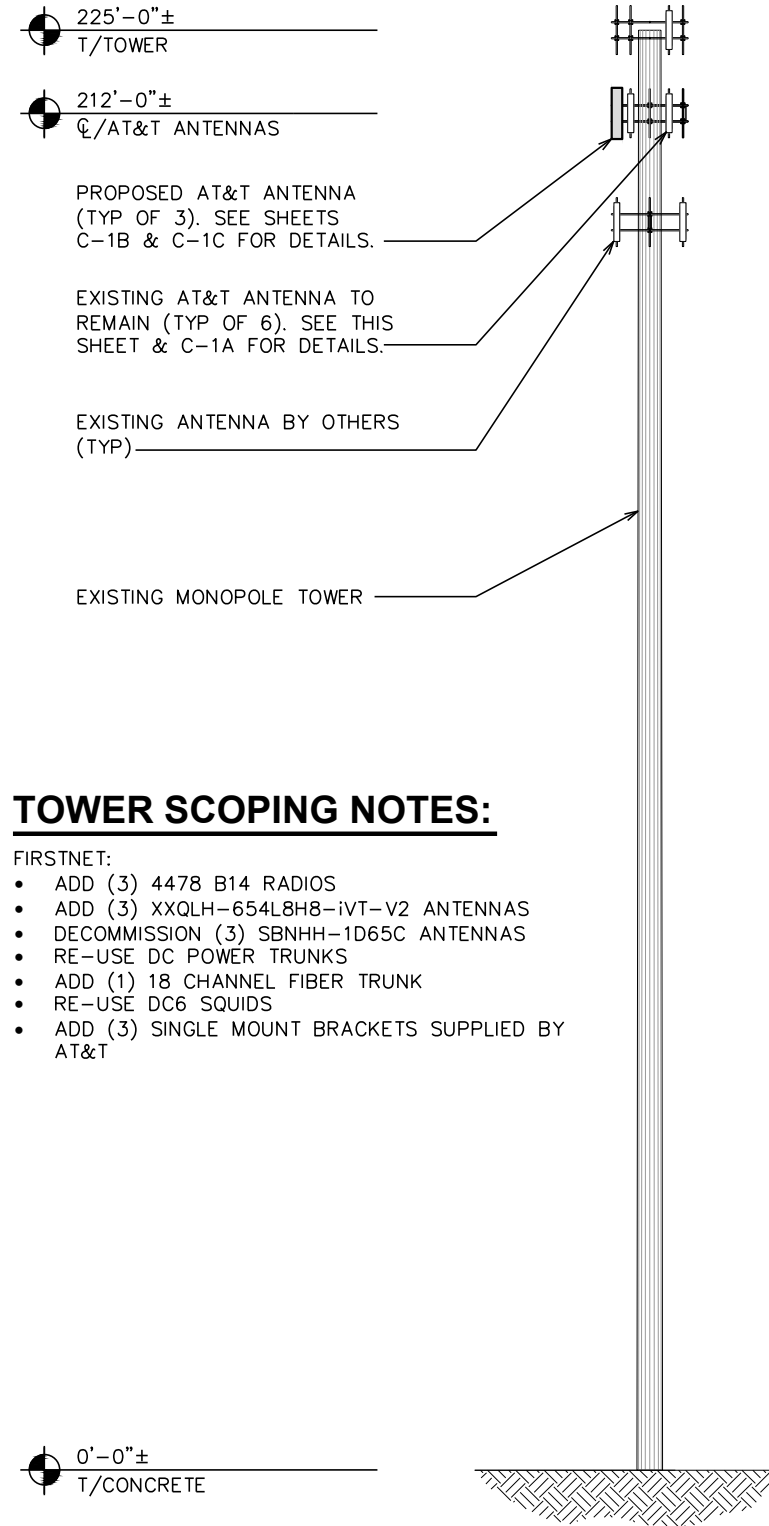
REVISION:

2

TEP#: 43027.445632

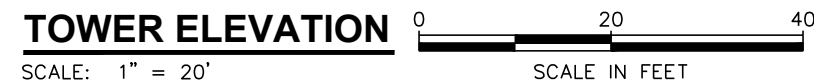
NOTES:

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



TOWER SCOPING NOTES:

- FIRSTNET:
- ADD (3) 4478 B14 RADIOS
 - ADD (3) XXQLH-654L8H8-iVT-V2 ANTENNAS
 - DECOMMISSION (3) SBNHH-1D65C ANTENNAS
 - RE-USE DC POWER TRUNKS
 - ADD (1) 18 CHANNEL FIBER TRUNK
 - RE-USE DC6 SQUIDS
 - ADD (3) SINGLE MOUNT BRACKETS SUPPLIED BY AT&T



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. IT IS THE CARRIER'S RESPONSIBILITY TO ENSURE MOUNT CAN SUPPORT ADDITIONAL LOADS.
7. EXISTING LOADING INFORMATION PROVIDED BY HIGH PERFORMANCE SERVICES RFDS ID: 4092139.

EXISTING ANTENNA/CABLE SCHEDULE

ANT. MARK	SECTOR	TECH.	MANUFACTURER/ MODEL #	AZIMUTH (TN)	RAD CENTER	ELEC. D-TILT	TMA MODEL	COAX/ CABLE	SURGE PROTECTION	RRU MODEL
A1	ALPHA	LTE 700 LTE AWS LTE 1900	KMW EPBQ-652L8H8	0°	212'	2° 2°		(1) FIBER ₁₈ (2) DC POWER	(1) DC6-48-60-18-8F	(1) RRUS-11 B12 (1) 8843 B2/B66A
A4	ALPHA	UMTS 1900	KATHREIN 741-989	0°	212'	2°	(2) RFS ATM192012-0	(1) 3/8" RET (2) 1 5/8" COAX		
A5	ALPHA	*GSM 1900 (INACTIVE)	*COMMSCOPE SBNHH-1D65C	0°	212'			** (2) 1 5/8" COAX		
B1	BETA	LTE 700 LTE AWS LTE 1900	KMW EPBQ-652L8H8	120°	212'	2° 2°		(2) DC POWER	(1) DC6-48-60-18-8F	(1) RRUS-11 B12 (1) 8843 B2/B66A
B4	BETA	UMTS 1900	KATHREIN 741-989	120°	212'	2°	(2) RFS ATM192012-0	(2) 1 5/8" COAX		
B5	BETA	*GSM 1900 (INACTIVE)	*COMMSCOPE SBNHH-1D65C	120°	212'			** (2) 1 5/8" COAX		
C1	GAMMA	LTE 700 LTE AWS LTE 1900	KMW EPBQ-652L8H8	240°	212'	2° 2°				(1) RRUS-11 B12 (1) 8843 B2/B66A
C4	GAMMA	UMTS 1900	KATHREIN 741-989	240°	212'	2°	(2) RFS ATM192012-0	(2) 1 5/8" COAX		
C5	GAMMA	*GSM 1900 (INACTIVE)	*COMMSCOPE SBNHH-1D65C	240°	212'			** (2) 1 5/8" COAX		

* - EXISTING AT&T EQUIPMENT & TECHNOLOGY TO BE REMOVED
 ** - INACTIVE COAX TO BE REMOVED



PLANS PREPARED FOR:

2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:

111 EAST SAINT PETER STREET
CARENCRO, LA 70520

PROJECT INFORMATION:

AT&T SITE #: 368-355
 1275 NC 55 EAST
 COATS NC, 27521
 (HARNETT COUNTY)

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:

October 6, 2020

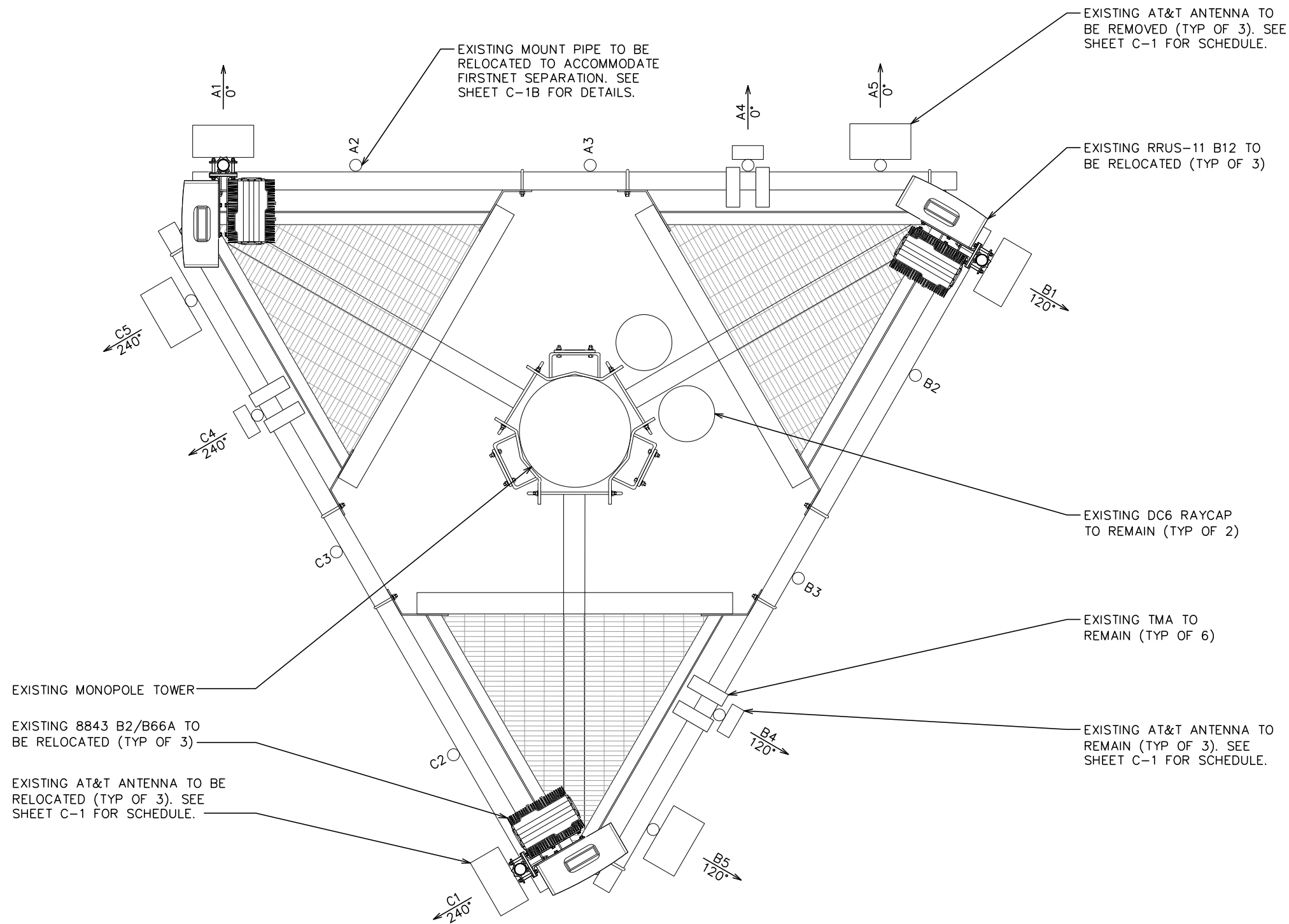
2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:

**TOWER ELEVATION
& EXISTING
ANTENNA SCHEDULE**

SHEET NUMBER: **C-1** REVISION: **2**
 TEP #: 43027.445632



PLANS PREPARED FOR:

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 111 EAST SAINT PETER STREET
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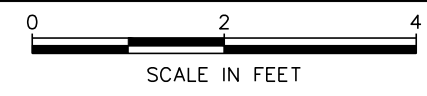
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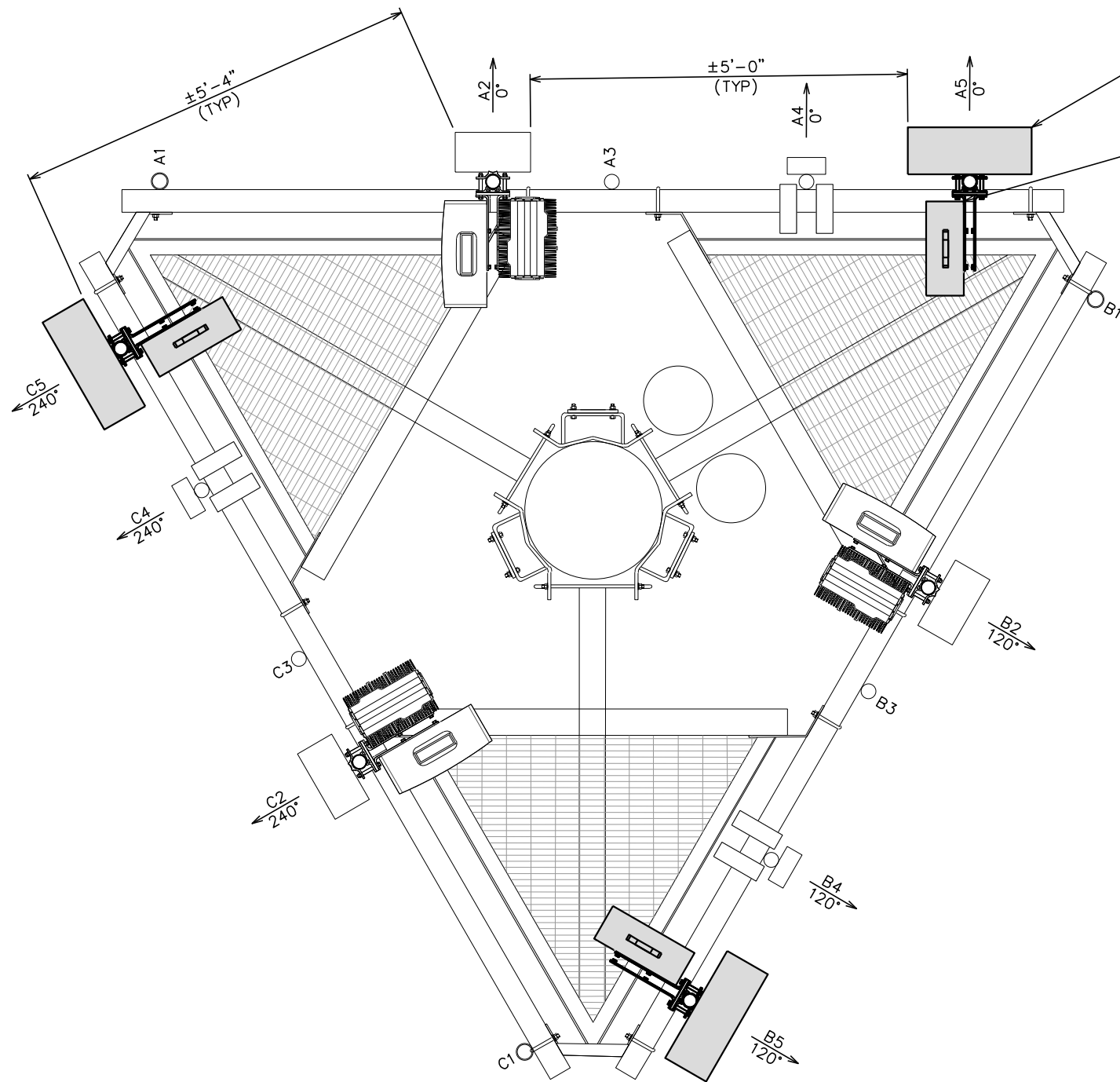
DRAWN BY: ER | CHECKED BY: BSE

SHEET TITLE:
EXISTING ANTENNA ORIENTATION

SHEET NUMBER: **C-1A** | REVISION: **2**
 TEP#: 43027.445632

EXISTING ANTENNA ORIENTATION
 SCALE: 1/2" = 1'-0"





PROPOSED AT&T ANTENNA (TYP OF 3). SEE SHEET C-1C FOR SCHEDULE.

PROPOSED B14 4478 RRU TO BE INSTALLED WITH PROPOSED RRU BRACKET SUPPLIED BY AT&T (TYP OF 3)

PLANS PREPARED FOR:

 2002 PISGAH CHURCH ROAD, SUITE 300
 GREENSBORO, NC 27455


PLANS PREPARED FOR:

 111 EAST SAINT PETER STREET
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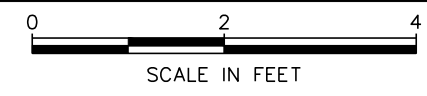
2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:
PROPOSED ANTENNA ORIENTATION

SHEET NUMBER: **C-1B** REVISION: **2**
 TEP#: 43027.445632

PROPOSED ANTENNA ORIENTATION
 SCALE: 1/2" = 1'-0"



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. IT IS THE CARRIER'S RESPONSIBILITY TO ENSURE MOUNT CAN SUPPORT ADDITIONAL LOADS.
7. EXISTING LOADING INFORMATION PROVIDED BY HIGH PERFORMANCE SERVICES RFDS ID: 4092139.
8. CABLE LENGTH TAKEN FROM AT&T RFDS. CONTRACTOR TO VERIFY LENGTH PRIOR TO ORDERING MATERIALS.

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

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DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:

PROPOSED ANTENNA/CABLE SCHEDULE

SHEET NUMBER: **C-1C** REVISION: **2**
TEP#: 43027.445632

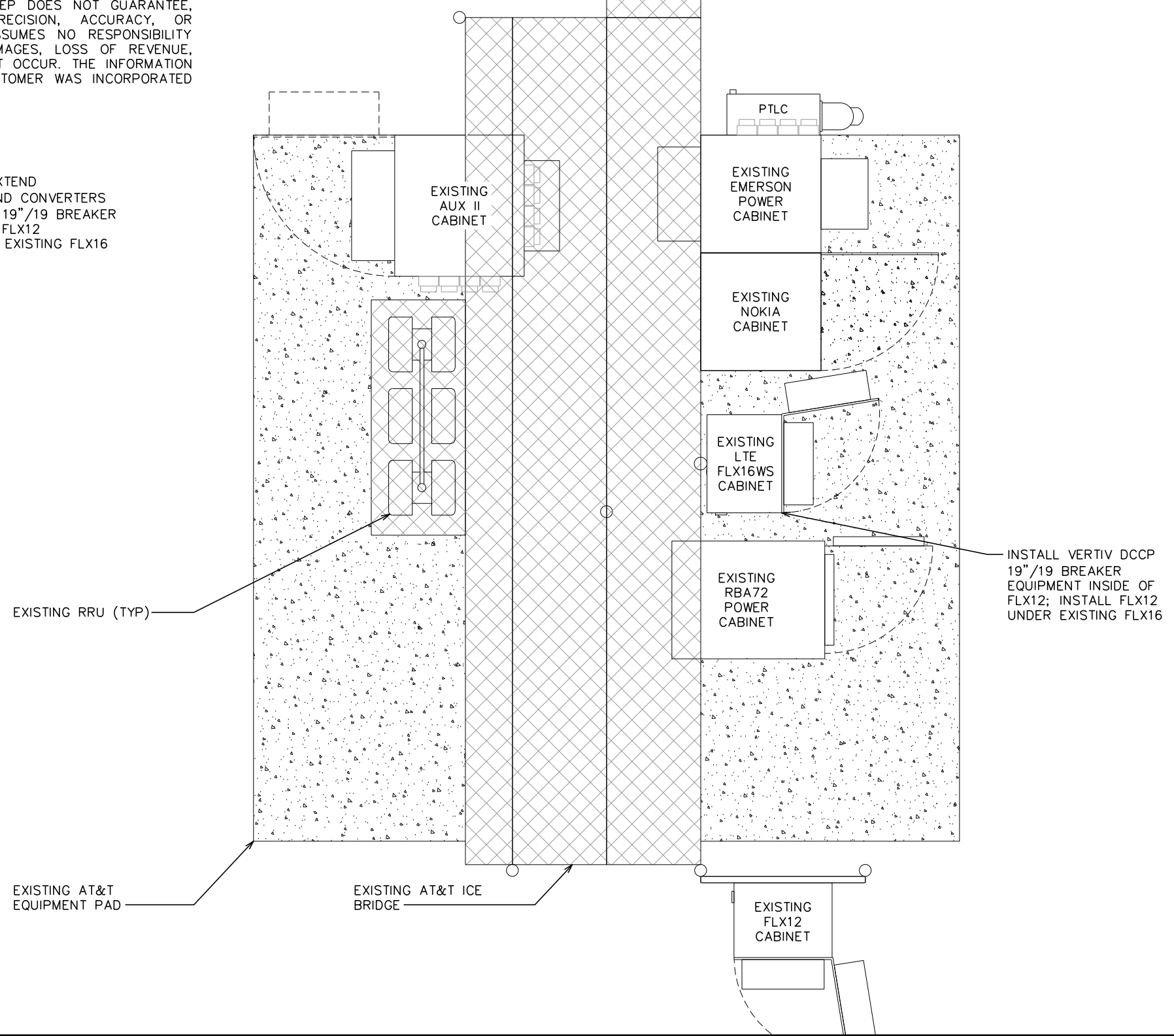
PROPOSED ANTENNA/CABLE SCHEDULE													
ANT. MARK	SECTOR	TECH.	STATUS	MANUFACTURER/ MODEL #	DIMS (HxWxD)	AZIMUTH (TN)	RAD CENTER	ELEC. D-TILT	TMA MODEL	COAX/ CABLE	CABLE LENGTH	SURGE PROTECTION	RRU MODEL
A2	ALPHA	(E) LTE 700 (E) LTE AWS (E) LTE 1900	EXISTING	(E) KMW EPBQ-652L8H8	H 99.6" W 12.0" D 6.3"	0°	212'	2° 2° 2°		(1) FIBER ₁₈ (E) (2) DC POWER (E)	262'±	(1) DC6-48-60-18-8F (E)	(1) RRUS-11 B12 (E) (1) 8843 B2/B66A (E)
A4	ALPHA	(E) UMTS 1900	EXISTING	(E) KATHREIN 741-989	H 51.3" W 6.1" D 2.7"	0°	212'	2°	(2) RFS ATM192012-0 (E)	(2) 1 5/8" COAX (E) (1) 3/8" RET (E)	262'±		
A5	ALPHA	(P) LTE 700	PROPOSED	(P) ACE XXQLH-654L8H8- IVT-V2	H 99.0" W 19.7" D 7.5"	0°	212'	2°					(1) B14 4478 (P)
B2	BETA	(E) LTE 700 (E) LTE AWS (E) LTE 1900	EXISTING	(E) KMW EPBQ-652L8H8	H 99.6" W 12.0" D 6.3"	120°	212'	2° 2° 2°		(1) FIBER ₁₈ (P) (2) DC POWER (E)	262'±	(1) DC6-48-60-18-8F (E)	(1) RRUS-11 B12 (E) (1) 8843 B2/B66A (E)
B4	BETA	(E) UMTS 1900	EXISTING	(E) KATHREIN 741-989	H 51.3" W 6.1" D 2.7"	120°	212'	2°	(2) RFS ATM192012-0 (E)	(2) 1 5/8" COAX (E)	262'±		
B5	BETA	(P) LTE 700	PROPOSED	(P) ACE XXQLH-654L8H8- IVT-V2	H 99.0" W 19.7" D 7.5"	120°	212'	2°					(1) B14 4478 (P)
C2	GAMMA	(E) LTE 700 (E) LTE AWS (E) LTE 1900	EXISTING	(E) KMW EPBQ-652L8H8	H 99.6" W 12.0" D 6.3"	240°	212'	2° 2° 2°					(1) RRUS-11 B12 (E) (1) 8843 B2/B66A (E)
C4	GAMMA	(E) UMTS 1900	EXISTING	(E) KATHREIN 741-989	H 51.3" W 6.1" D 2.7"	240°	212'	2°	(2) RFS ATM192012-0 (E)	(2) 1 5/8" COAX (E)	262'±		
C5	GAMMA	(P) LTE 700	PROPOSED	(P) ACE XXQLH-654L8H8- IVT-V2	H 99.0" W 19.7" D 7.5"	240°	212'	2°					(1) B14 4478 (P)

(E) - EXISTING AT&T EQUIPMENT & TECHNOLOGY
(P) - PROPOSED AT&T EQUIPMENT & TECHNOLOGY

PROPOSED ANTENNA/CABLE SCHEDULE
SCALE: N.T.S.

NOTES:

- EQUIPMENT PAD DRAWN FROM INFORMATION PROVIDED BY HIGH PERFORMANCE. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON EQUIPMENT PAD DETAIL. IMMEDIATELY NOTIFY TEP OF ANY DISCREPANCIES.
- TEP DID NOT VISIT THIS SITE AND INFORMATION WAS REPRODUCED FROM SKETCHES PROVIDED BY HIGH PERFORMANCE. TEP DOES NOT GUARANTEE, OR ENSURE THE PRECISION, ACCURACY, OR CORRECTNESS AND ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DAMAGES, LOSS OF REVENUE, OR INJURY THAT MIGHT OCCUR. THE INFORMATION SUPPLIED BY THE CUSTOMER WAS INCORPORATED FOR REFERENCE ONLY.
- EE NOTES
 - RE-USE 5216
 - RE-USE XMU03
 - RE-USE 6601
 - ADD VERTIV POWER EXTEND
 - ADD (3) POWER EXTEND CONVERTERS
 - INSTALL VERTIV DCCP 19"/19 BREAKER EQUIPMENT INSIDE OF FLX12
 - INSTALL FLX12 UNDER EXISTING FLX16



PLANS PREPARED FOR:

2002 PISGAH CHURCH ROAD, SUITE 300
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111 EAST SAINT PETER STREET
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PROJECT INFORMATION:

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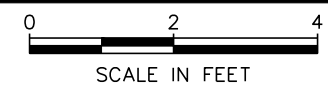
DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:

EQUIPMENT LAYOUT

SHEET NUMBER:	REVISION:
C-2	2
TEP#: 43027.445632	

EQUIPMENT LAYOUT
SCALE: 3/8" = 1'-0"



SCOPE:

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

CODES:

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
 - C. REGULATIONS OF THE SERVING UTILITY COMPANY
 - D. LOCAL AND STATE AMENDMENTS
 - 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:

1. CONDUITORS 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 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.
 - B. CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND #12 MAY BE SOLID OR STRANDED.
 - C. 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:

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	
<p>A – AMPERE AFG – ABOVE FINISHED GRADE ATS – AUTOMATIC TRANSFER SWITCH AWG – AMERICAN WIRE GAUGE BCW – BARE COPPER WIRE BFG – BELOW FINISHED GRADE BKR – BREAKER C – CONDUIT CKT – CIRCUIT DISC – DISCONNECT EGR – EXTERNAL GROUND RING EMT – ELECTRIC METALLIC TUBING FSC – FLEXIBLE STEEL CONDUIT GEN – GENERATOR GPS – GLOBAL POSITIONING SYSTEM GRD – GROUND IGB – ISOLATED GROUND BAR IGR – INTERIOR GROUND RING (HALO) KW – KILOWATTS NEC – NATIONAL ELECTRIC CODE PCS – PERSONAL COMMUNICATION SYSTEM PH – PHASE PNL – PANEL</p>	<p>PNLBD – PANELBOARD PVC – RIGID NON-METALLIC CONDUIT RGS – RIGID GALVANIZED STEEL CONDUIT SW – SWITCH TGB – TOWER GROUND BAR UL – UNDERWRITERS LABORATORIES V – VOLTAGE W – WATTS XFMR – TRANSFORMER XMTR – TRANSMITTER</p>
<p>----E---- UNDERGROUND ELECTRICAL CONDUIT ----T---- UNDERGROUND TELEPHONE CONDUIT KILOWATT-HOUR METER ----- UNDERGROUND BONDING AND GROUNDING CONDUCTOR. GROUND ROD GROUND ROD WITH INSPECTION WELL</p>	

PLANS PREPARED FOR:



2002 PISGAH CHURCH ROAD, SUITE 300
GREENSBORO, NC 27455

PLANS PREPARED FOR:



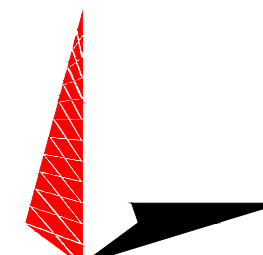
111 EAST SAINT PETER STREET
CARENCRO, LA 70520

PROJECT INFORMATION:

AT&T SITE #: 368-355

1275 NC 55 EAST
COATS NC, 27521
(HARNETT COUNTY)

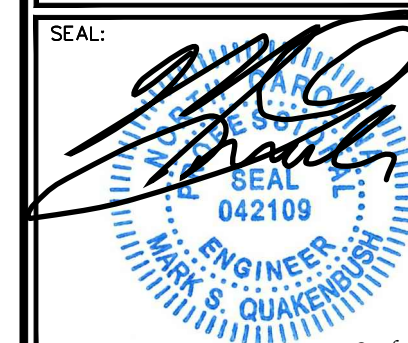
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TOWER ENGINEERING PROFESSIONALS

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SEAL:



October 6, 2020

2	10-06-20	CONSTRUCTION
1	09-30-20	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ER CHECKED BY: BSE

SHEET TITLE:

ELECTRICAL NOTES

SHEET NUMBER: E-1	REVISION: 2
TEP#: 43027.445632	

GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE INCOMING SERVICES WITH LOCAL UTILITIES PRIOR TO TRENCHING.
- ALL CONDUCTORS SHALL BE COPPER, 75 DEGREES C RATED, AND CONDUCTOR INSULATION SHALL BE THWN OR THHN
- ALL TERMINATIONS SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75°C RATED CONDUCTORS OPERATING AT 75°C.
- GROUND FAULT PROTECTION REQUIRED FOR UTILITY RECEPTACLES.
- SERVICE NEUTRAL SHALL BE GROUNDED AT ONE LOCATION ONLY.
- WHITE/NEUTRAL, GREEN/GROUND SHALL BE MAINTAINED THROUGHOUT THE SITE ELECTRICAL SYSTEM (TAPE WILL NOT BE ACCEPTABLE).
- EQUIPMENT LOCATED OUTSIDE OR EXPOSED TO MOISTURE SHALL BE NEMA 3R RATED.
- CONTRACTOR SHALL USE SCHEDULE 80 PVC CONDUIT THROUGHOUT, UNLESS OTHERWISE NOTED.
- ALL NEWLY INSTALLED EQUIPMENT SHALL BE RATED AT 10K AIC MINIMUM. HIGHER RATINGS SHALL BE REQUIRED WHERE AVAILABLE FAULT CURRENT EXCEEDS THIS VALUE. EXACT FAULT CURRENT AVAILABLE SHALL BE COORDINATED WITH LOCAL UTILITY BASED ON EXACT CONDITIONS (XFMR SIZE, PERCENT IMPEDANCE, LENGTH OF CONDUCTORS, ETC).
- CONTRACTOR TO VERIFY REPLACEMENT EQUIPMENT DOES NOT EXCEED SYSTEM CAPABILITY.

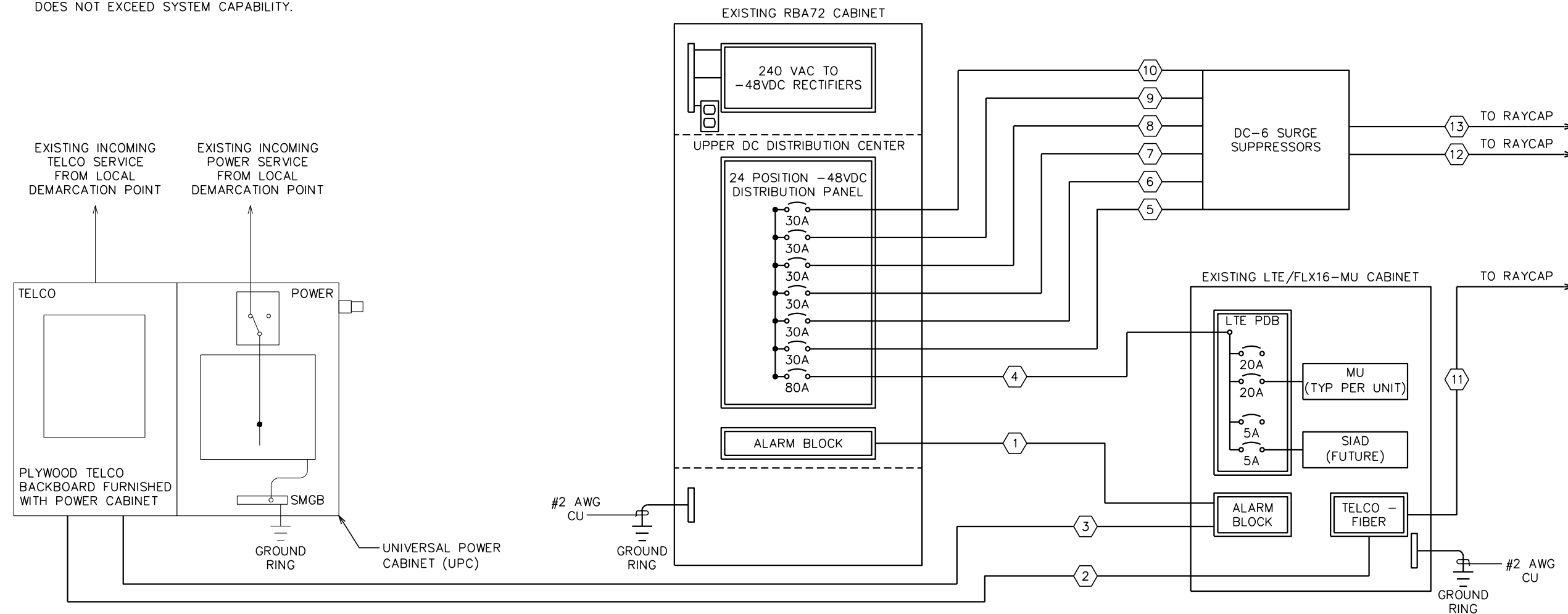
ELECTRICAL SCOPE:

- NEW ANTENNA's. SEE SHEET E-3 FOR DETAILS.
- NEW RRU's. SEE SHEET E-3 FOR DETAILS.
- CONNECT EXISTING BREAKERS TO DC6 SURGE SUPPRESSOR. SEE MARK 5-7 ON THE CONDUIT SCHEDULE.
- CONTRACTOR TO INSTALL THE FOLLOWING EQUIPMENT TO SUPPORT LTE 4C:
 - RE-USE 5216
 - RE-USE XMU03
 - RE-USE 6601
 - ADD VERTIV POWER EXTEND
 - ADD (3) POWER EXTEND CONVERTERS
 - INSTALL VERTIV DCCP 19"/19 BREAKER EQUIPMENT INSIDE OF FLX12
 - INSTALL FLX12 UNDER EXISTING FLX16

*CABLE AND CONDUIT SCHEDULE

MARK	CONDUIT		CABLE			REMARKS
	QUANT.	SIZE	QUANT.	SIZE	GROUND SIZE	
①	1	2"	BELDIN CABLES			ALARM CONTROL FROM RBA72 TO LTE/FLX16-MU. IMC REQUIRED.
②	1	2"	FIBER 12-PAIR			FIBER FROM UPC TO LTE/FLX16-MU.
③	1	2"	BELDIN CABLES			ALARM CONTROL FROM UPC TO LTE/FLX16-MU. IMC REQUIRED.
④	1	2"	1	#2	#2	DC POWER FROM RBA72 TO LTE PDB
⑤	1	2"	1	#8	#8	DC POWER FROM RBA72 TO DC-6 SURGE SUPPRESSOR
⑥			1	#8	#8	DC POWER FROM RBA72 TO DC-6 SURGE SUPPRESSOR
⑦			1	#8	#8	DC POWER FROM RBA72 TO DC-6 SURGE SUPPRESSOR
⑧			1	#8	#8	DC POWER FROM RBA72 TO DC-6 SURGE SUPPRESSOR
⑨			1	#8	#8	DC POWER FROM RBA72 TO DC-6 SURGE SUPPRESSOR
⑩	1	2"	1	#8	#8	DC POWER FROM RBA72 TO DC-6 SURGE SUPPRESSOR
⑪	1	2"	FIBER 18-PAIR			FIBER FROM LTE/FLX16-MU TO RAYCAP
⑫	1	2"	3PR DC #8 AWG			DC POWER FROM DC-6 SURGE SUPPRESSOR TO RAYCAP
⑬	1	2"	3PR DC #8 AWG			DC POWER FROM DC-6 SURGE SUPPRESSOR TO RAYCAP

*ALL CIRCUITS AND CABLES IN CHART EXISTING UNLESS OTHERWISE NOTED.



TYPICAL LTE ONE-LINE DIAGRAM

SCALE: N.T.S.

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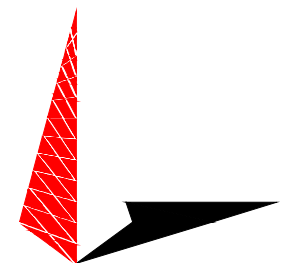
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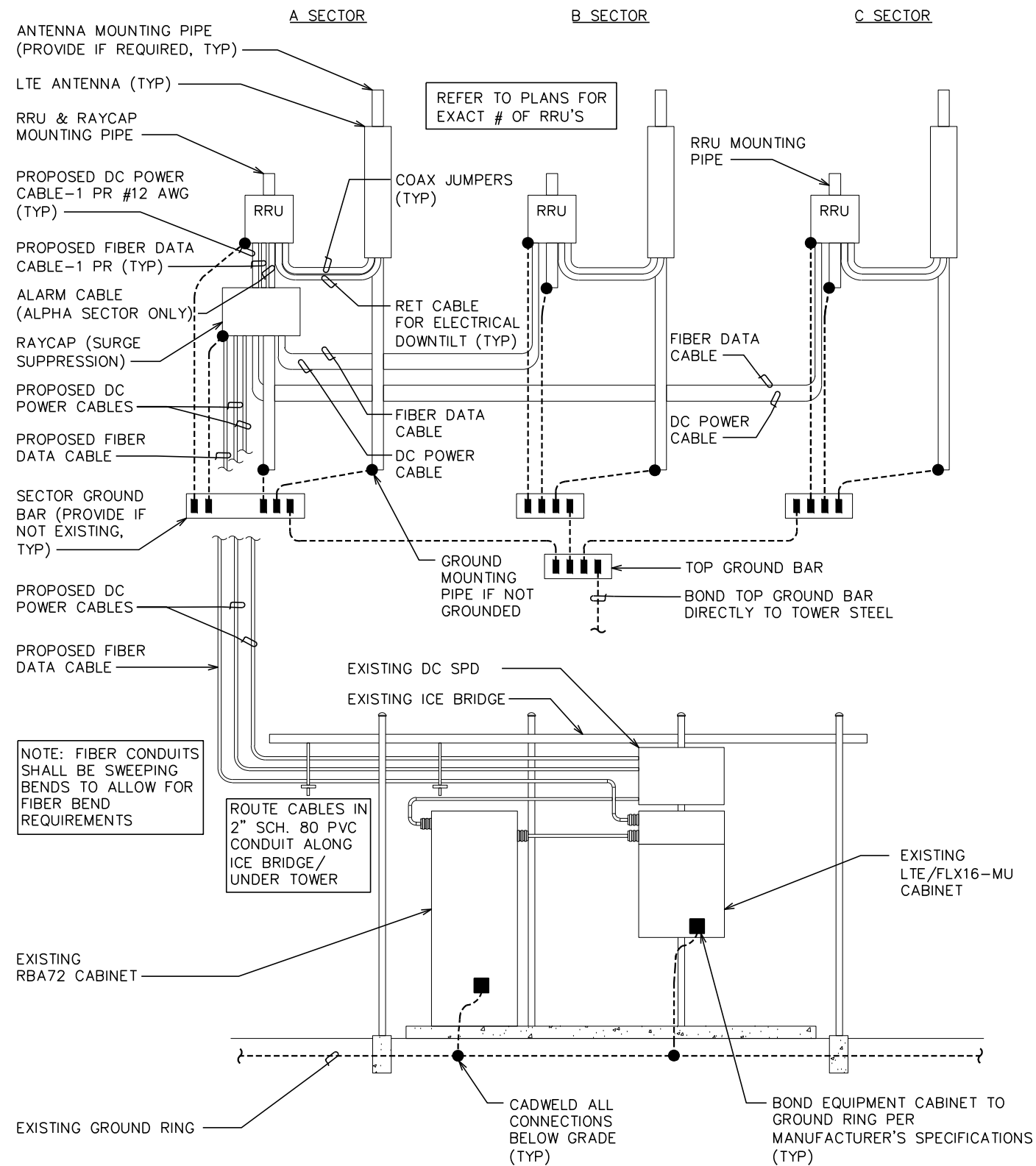
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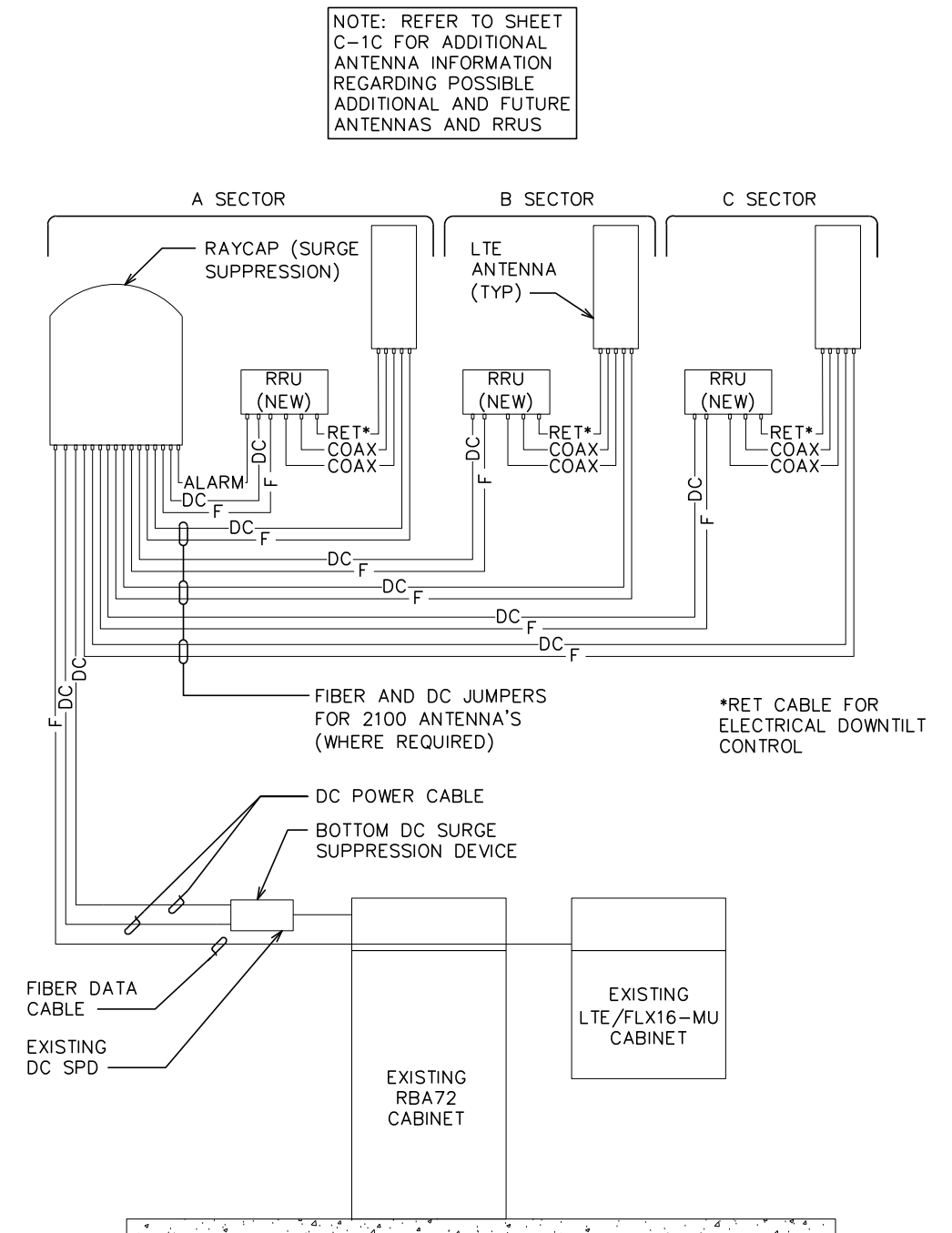
SHEET TITLE:
TYPICAL LTE ONE-LINE DIAGRAM

SHEET NUMBER: E-2	REVISION: 2
TEP#: 43027.445632	



TYPICAL CABLE AND GROUNDING RISER DIAGRAM

SCALE: N.T.S.



TYPICAL RF RISER DIAGRAM

SCALE: N.T.S.

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SHEET TITLE:

TYPICAL LTE RISER DIAGRAM

SHEET NUMBER: **E-3** REVISION: **2**

TEP#: 43027.445632