



AMERICAN TOWER®

ATC SITE NAME: LACROSSE FL 6 ATC SITE NUMBER: 303048 T-MOBILE SITE NAME: 9JK0174A T-MOBILE SITE NUMBER: 9JK0174A

SITE ADDRESS: 183 SOUTHEAST WATERLEAF DRIVE

LAKE CITY, FL 32024

SITE CLASS: GUYED



LOCATION MAP

Patrick Barry Date: 2024.07.10 16:16:02

Plans Reviewed

for Code

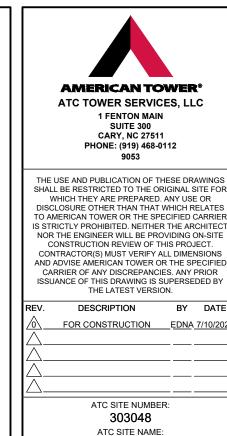
Compliance

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T-MOBILE MICROWAVE PLA

COMPLIANCE CODE PROJECT SUMMARY PROJECT DESCRIPTION SHEET INDEX SHEET SITE ADDRESS: THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED ALL WORK SHALL BE PERFORMED AND MATERIALS DESCRIPTION: REV: DATE: BY: INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: 183 SOUTHEAST WATERLEAF DRIVE OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL G-001 TITLE SHEET 0 7/10/2024 EDNA LAKE CITY, FL 32024 INSTALL MOUNT MODIFICATIONS, (1) DISH, (2) ODU(s), (2) 1/2" COAX, GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS COUNTY: COLUMBIA AND (2) 2.25" HYBRID CABLE(s) TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO G-002 **GENERAL NOTES** 0 7/10/2024 EDNA EXISTING (3) ANTENNA(s), (9) RRU(s), AND (2) 1.99" HYBRID CABLE(s) THESE CODES GEOGRAPHIC COORDINATES: C-101 DETAILED SITE PLAN 0 7/10/2024 EDNA LATITUDE: 29.95150071 NATIONAL ELECTRICAL CODE (NFPA 70, NEC 2020) 29° 57' 5.403" N C-201 TOWER ELEVATION 7/10/2024 EDNA 0 2023 FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION LONGITUDE: -82.5707286 (IMC 2021 W/ AMND) ANTENNA INFORMATION & SCHEDULE EDNA 82° 34' 14.623" W C-401 0 7/10/2024 2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION (IPC GROUND ELEVATION: 153' AMSL 2021 W/ AMND) FDNA C-501 CONSTRUCTION DETAILS 0 7/10/2024 2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION, 8TH EDITION (IECC 2021 W/ AMND) F-501 GROUNDING DETAILS 0 7/10/2024 FDNA 2023 FLORIDA FIRE PREVENTION CODE, 8TH EDITION (NFPA 1, 2021 W/ AMND) SUPPLEMENTAL SHEETS (5 PAGES) 2023 FLORIDA BUILDING CODE, EXISTING BUILDING, 8TH **PROJECT NOTES** EDITION (IEBC 2021 W/ AMND) 8TH ED (2023) FLORIDA BUILDING CODE THE FACILITY IS UNMANNED. 2023 FLORIDA BUILDING CODE, RESIDENTIAL, 8TH EDITION PROJECT TEAM A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A (IRC 2021 W/ AMND) MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 2023 FLORIDA BUILDING CODE, FUEL GAS, 8TH EDITION (IFGC TOWER OWNER: APPLICANT: THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND 2018 W/ AMND) DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. T-MOBILE AMERICAN TOWER NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL 10 PRESIDENTIAL WAY IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED.
THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED WOBURN, MA 01801 **ENGINEER:** REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN ATC TOWER SERVICES, LLC EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF 1 FENTON MAIN, STE 300 TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL UTILITY COMPANIES CARY, NC 27511 CHANGE UNDER CFR § 1.61000 (B)(7). POWER COMPANY: CLAY ELECTRIC PROPERTY OWNER: PROJECT LOCATION DIRECTIONS ROBERTS LAND TIMBER INVESTME TELEPHONE COMPANY: BELL SOUTH 183 SOUTHEAST (800) 247-2020 WATERLEAF DRIVE LAKE CITY, FL 32024 IN FL ON I-75: TAKE EXIT 414 AND TRAVEL SOUTH ON HWY 41 APP. 3 MILES TO CR 18 AND TURN LEFT. TRAVEL APP 2 MILE TO SITE ON THE RIGHT JUST PRIOR TO CROSSING OVER THE INTERSTATE.



LACROSSE FL 6 T-MOBILE SITE NAME:

9JK0174A

SITE ADDRESS: 183 SOUTHEAST WATERLEAF DRIVE LAKE CITY, FL 32024

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| 4 | CUST. ID: | 9JK0174A |
| | CUST. #: | 9JK0174A |
| | | |

TITLE SHEET

SHEET NUMBER:

G-001

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND
- BUILD/CO-LOCATE ONLY)

 B. AC/TELCO INTERFACE BOX (PPC)
- C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
- TO FURNISH AND INSTALL FOR ROOFTOP
 D. TOWERS, MONOPOLES
- F TOWERS, MONOR C
- F. GENERATORS & LIQUID PROPANE TANK
- G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- H. ANTENNAS (INSTALLED BY OTHERS)
- I. TRANSMISSION LINE
- J. TRANSMISSION LINE JUMPERS
- K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
- L. TRANSMISSION LINE GROUND KITS
- M. HANGERS
- N. HOISTING GRIPS
- O. BTS EQUIPMENT
- 2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR NIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE ORILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANS//EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
- 4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- 7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION
 SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOILTS, ETC.
- 11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- 12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
- 13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE TAMORIE E CONSTRUCTION MANAGER
- 15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD INVESTIGATION.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- 18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC), AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC)
 WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP
 TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED
 SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL
 ALL ITEMS PROVIDED.

- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP
 TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED
 PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE
 CONTRACTOR.
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PI ANS.
- 26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELLY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 27. CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
- 28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
- COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
- 30. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- 31. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
- 32. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
- 34. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
- 35. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO THE FOR THE ROBUST OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- 1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL/HYBRID CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.
 - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND T-MOBILE
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - INSTALL COAXIAL/HYBRID CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- . ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:
 - A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #2012/3 OP ECILIA.

 ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE
CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC
ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN.
FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR
ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR
APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE
RESPONSIBILITY OF THE GENERAL CONTRACTOR.



1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 9053

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

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| ł | ATC SITE NUMBER | | |

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LACROSSE FL 6

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9JK0174A

SITE ADDRESS: 183 SOUTHEAST WATERLEAF DRIVE LAKE CITY. FL 32024

SEAL:



Digitally Signed: 2024-07-10

T-Mobile

ATC PROJ. #: 14863653_G0
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GENERAL NOTES

SHEET NUMBER:

G-002

SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING **EQUIPMENT AND STRUCTURES DEPICTED ON THIS** PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- NO ELECTRICAL SCOPE IS INCLUDED IN THIS

GROUNDING TEST WELL AUTOMATIC TRANSFER SWITCH ATS BOLLARD CSC CELL SITE CABINET DISCONNECT ELECTRICAL FIBER GEN **GENERATOR** GENERATOR RECEPTACLE HH, V HAND HOLE, VAULT ICE BRIDGE KENTROX BOX LIGHTING CONTROL LC METER

ΙB

PB

TRN

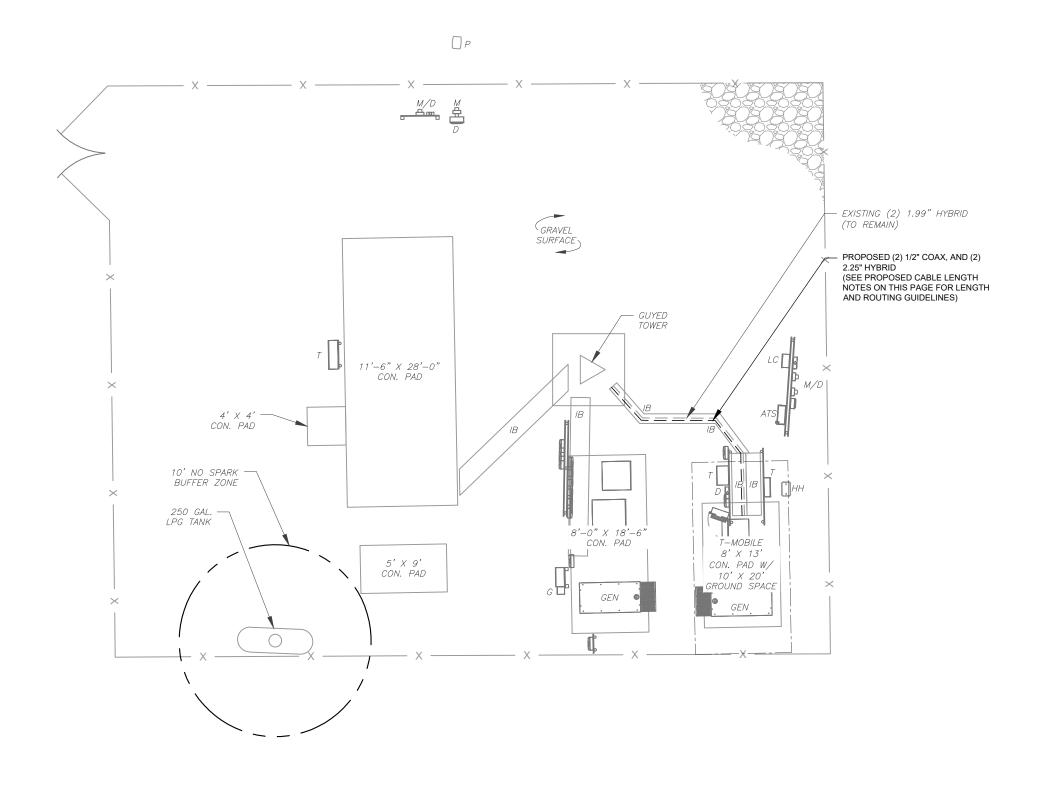
LEGEND

PROPOSED CABLE NOTES:

TRANSFORMER CHAINLINK FENCE

PULL BOX POWER POLE TELCO

- ESTIMATED LENGTH OF PROPOSED CABLE IS <u>250</u>'. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



DETAILED SITE PLAN

GRAPHIC SCALE

1 UNIT = 10 FEET



ATC TOWER SERVICES, LLC 1 FENTON MAIN SUITE 300

CARY, NC 27511 PHONE: (919) 468-0112

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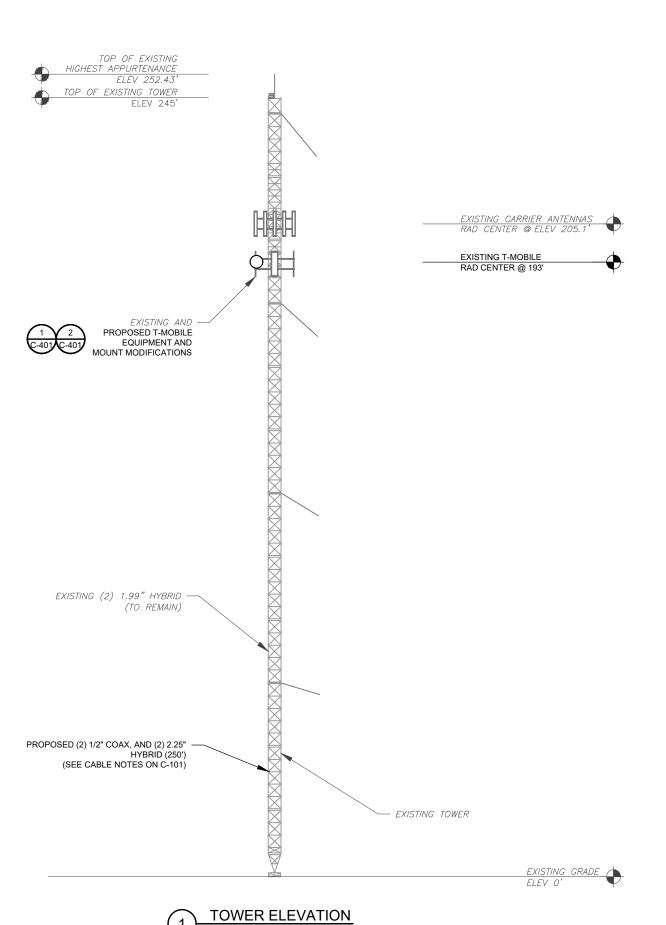
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DETAILED SITE PLAN

SHEET NUMBER:

C-101



PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 06/27/24, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

ALL ELEVATIONS REFLECT ABOVE GROUND LEVEL (A.G.L.)

TOWER NOTE

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- 3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
 - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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| <u> </u> | FOR CONSTRUCTION | EDNA | 7/10/2024 |
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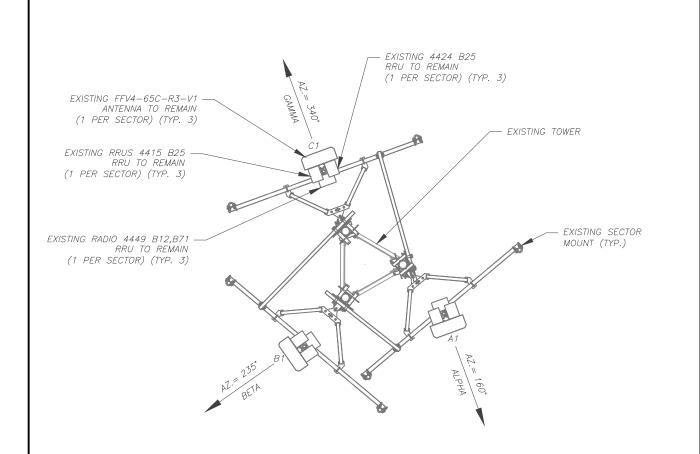
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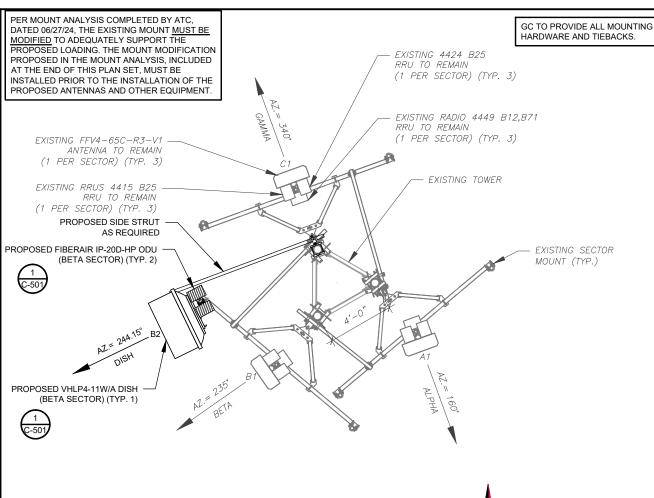
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TOWER ELEVATION

SHEET NUMBER:

C-201





FINAL ANTENNA PLAN

EXISTING ANTENNA SCHEDULE LOCATION ANTENNA SUMMARY NON ANTENNA SUMMARY ADDITIONAL TOWER MOUNTED EQUIPMENT MECH/ELEC SECTOR RAD ΑZ POS ANTENNA BAND STATUS STATUS D-TILT (1) RRUS 4415 B25 RMN 193' 160° A1 FFV4-65C-R3-V1 RMN (1) 4424 B25 RMN 1) RADIO 4449 B12,B71 RMN (1) RRUS 4415 B25 RMN 193' 235° B1 FFV4-65C-R3-V1 (1) 4424 B25 RMN (1) RADIO 4449 B12,B71 RMN (1) RRUS 4415 B25 RMN (1) 4424 B25 GAMMA 193' 340° C1 FFV4-65C-R3-V1 RMN RMN1) RADIO 4449 B12,B71 RMN

EXISTING ANTENNA PLAN

CABLE LENGTHS FOR JUMPERS JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10'

REL: TO BE RELOCATED ADD: TO BE ADDED

| | NOTES | | FINAL ANTENNA SCHEDULE | | | | | | | | |
|---|--|--------|------------------------|---------|-----|----------------|---------------------|---------------------|--------|---|-------------------|
| | 1. GC TO VERIFY THE FINAL RFDS | LC | CATION | 1 | | ANTE | NON ANTENNA SUMMARY | | | | |
| S | MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY | SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| | DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT. 2. GC TO CAP ALL UNUSED PORTS. | ALPHA | 193' | 160° | A1 | FFV4-65C-R3-V1 | - | - | RMN | (1) RRUS 4415 B25 (1) 4424 B25 (1) RADIO 4449 B12,B71 | RMN RMN RMN |
| | 3. GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING | BETA | 193' | 235° | B1 | FFV4-65C-R3-V1 | - | - | RMN | (1) RRUS 4415 B25 (1) 4424 B25 (1) RADIO 4449 B12,B71 | RMN RMN RMN |
| | PEGS. | | | 244.15° | B2 | VHLP4-11W/A | | | ADD | (2) FIBEAIR IP-20D-HP | ADD |
| | STATUS ABBREVIATIONS RMV: TO BE REMOVED RMN: TO REMAIN | GAMMA | 193' | 340° | C1 | FFV4-65C-R3-V1 | - | - | RMN | (1) RRUS 4415 B25 (1) 4424 B25 (1) RADIO 4449 B12,B71 | RMN RMN RMN |
| | AWAY. TO REWAIN | | | | | | | | | | |

| EXISTING FIBER DISTRIBUTION / OVP | вох | EXISTING CABLING SUMMARY | |
|-----------------------------------|---|--------------------------|-----|
| MODEL NUMBER | DEL NUMBER STATUS CABLE QTY, SIZE, TYPE | | |
| _ | RMN | (2) 1.99" HYBRID | RMN |
| - | RMV | | RMV |

| \bigcirc | EQUIPMENT SCHEDULES |
|-------------------------|---------------------|
| $\left(\circ \right) $ | |

| FINAL FIBER DISTRIBUTION / OVP BO | OX | FINAL CABLING SUMMARY | | |
|-----------------------------------|--------|-------------------------------------|-----|--|
| MODEL NUMBER | STATUS | S CABLE QTY, SIZE, TYPE S | | |
| – RMN (2) | | (2) 1.99" HYBRID | RMN | |
| _ | ADD | (2) 1/2" COAX, AND (2) 2.25" HYBRID | ADD | |

SCALE: N.T.S.



SUITE 300 **CARY, NC 27511** PHONE: (919) 468-0112

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIEV ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

| REV. | DESCRIPTION | BY | DATE |
|---------------------|------------------|-------------|-----------|
| \triangle_{-} | FOR CONSTRUCTION | <u>EDNA</u> | 7/10/2024 |
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| $\overline{\wedge}$ | | | |
| \triangle | | | |
| | REV. | ^ | ^ |

ATC SITE NUMBER: 303048 ATC SITE NAME:

LACROSSE FL 6

T-MOBILE SITE NAME:

9JK0174A

SITE ADDRESS: 183 SOUTHEAST WATERLEAF DRIVE LAKE CITY, FL 32024

No. 78374

*
No. 7

Digitally Signed: 2024-07-10

T-Mobile

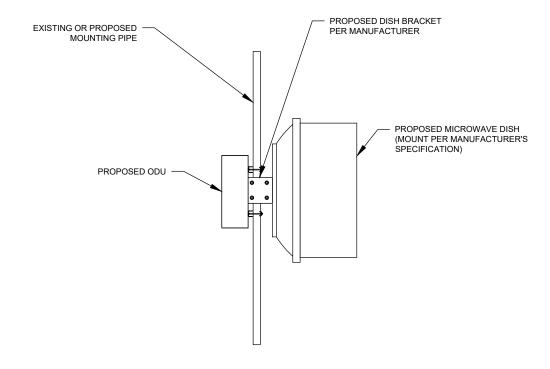
| | ATC PROJ. #: | 14863653_G0 |
|-----|--------------|-------------|
| | CUST. ID: | 9JK0174A |
| | CUST. #: | 9JK0174A |
| - 1 | | |

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:

C-401

EXISTING/PROPOSED MOUNTS AND/OR MOUNT MODIFICATIONS NOT SHOWN FOR CLARITY. REFER TO ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



PROPOSED MICROWAVE MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 9053

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| REV. | DESCRIPTION | BY | DATE |
|---------------------|------------------|------|-----------|
| \triangle _ | FOR CONSTRUCTION | EDNA | 7/10/2024 |
| \triangle_{-} | | | |
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| $\overline{\wedge}$ | | | |
| $\overline{\wedge}$ | | | |

ATC SITE NUMBER: 303048
ATC SITE NAME:

LACROSSE FL 6

T-MOBILE SITE NAME:

9JK0174A

SITE ADDRESS: 183 SOUTHEAST WATERLEAF DRIVE LAKE CITY, FL 32024

SEAL:



Digitally Signed: 2024-07-10

T·-Mobile

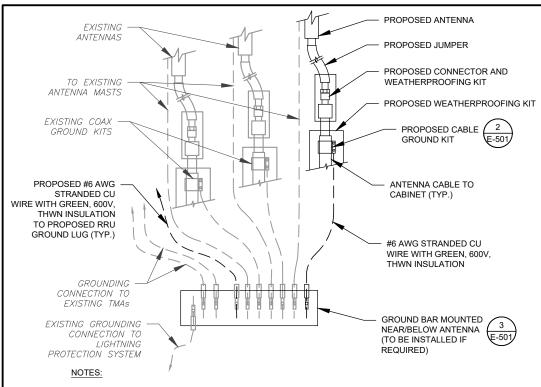
| | ATC PROJ. #: | 14863653_G0 |
|--|--------------|-------------|
| | CUST. ID: | 9JK0174A |
| | CUST. #: | 9JK0174A |
| | | |

CONSTRUCTION DETAILS

SHEET NUMBER:

C-501

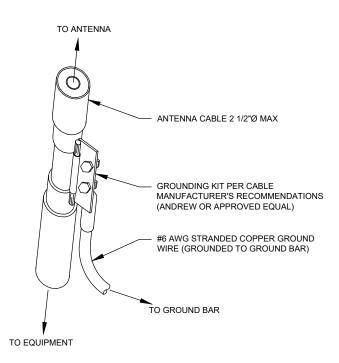
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THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.

SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

TYPICAL ANTENNA GROUNDING DIAGRAM



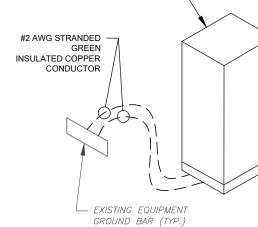
- <u>GROUND KIT NOTES:</u>

 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

CABLE GROUND KIT CONNECTION DETAIL

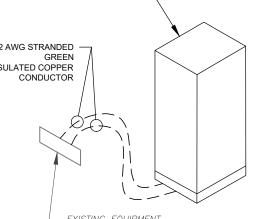
| | STANDARD CONDUIT USE TABLE | | | | | | | | | | |
|-------------------|----------------------------|---|---|--|--|--|--|--|--|--|--|
| CONDUIT TYPE | USE CASE | LOCATION | USE CASE EXAMPLE | | | | | | | | |
| RMC (METALLIC) | AC, DC COMM | ABOVE GROUND | ABOVE GROUND PPC TO SSC | | | | | | | | |
| PVC | AC POWER | UNDERGROUND | UNDERGROUND PPC TO SSC OR BACKHAUL TRANSPORT HUB TO SSC | | | | | | | | |
| LFMC | AC, DC, COMM | MAX 6' PER CONDUIT RUN, ABOVE GROUND ONLY | TIGHT LOCATIONS BETWEEN HUB AND CONDUIT BUT NOT TO BE USED WHERE IT CAN BE STEPPED ON | | | | | | | | |
| EMT | INDOOR AC, DC COMM | INDOOR NOT EXPOSED TO THE OUTDOOR ENVIRONMENT (MUST BE DRY) | CIRCUIT PANEL TO JUNCTION BOX | | | | | | | | |
| LFNC | GROUND WIRE | CONCEALING AND PROTECTING BTCW RISERS ONLY | GROUND RING TO MGB OR SSC | | | | | | | | |

| EXCEPTION CONDUIT USE TABLE | | | | | | | | |
|----------------------------------|--|--|---|--|--|--|--|--|
| CONDUIT TYPE | USE CASE | LOCATION | USE CASE EXAMPLE | | | | | |
| EMT (NOT PREFERRED) | OUTDOOR DC, COMM | OUTDOOR WHEN USED WITH WATERTIGHT HUBS ONLY | BETWEEN EQUIPMENT AND BATTERY CABINET OR EQUIPMENT TO EQUIPMENT CABINETS FOR INTER CABINET CONNECTION | | | | | |
| RMC NONMETALLIC (ALUMINUM) | OUTDOOR/INDOOR PER NEC GUIDLINES | ABOVE GROUND | MAT BE USED AS A LOWER COST ALTERNATIVE TO METALLIC RMC, MUST MEET OR EXCEED FEDERAL SPEC: WW-C-540C, UL-6A, ANSI C80.5, NEC 344.10 (A) ALLOWS THE USE OF EITHER ALUMINUM OR GALVANIZED FITTINGS | | | | | |



PROPOSED CABINET

CABINET GROUNDING DETAIL 5



GROUND BAR NOTES:

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

(EACH SIDE)

GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).

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3/8" SS LOCK WASHER

1/4" X 4" X 6" GROUND BAR

(LOWER TOWER GROUND

WITH #2 AWG BCW

BAR ONLY)

TWO-HOLE LUG, TO BE USED

(ERICO P/N: EGBA14406CC OR EQUAL)

(EACH SIDE)

2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

TOWER GROUND BAR DETAIL

ELECTRICAL NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW IN CHART.
- FOR SPECIFIC CABINET / ANCILLARY EQUIPMENT WIRING REQUIREMENTS, THE T-MOBILE CONTRACTOR SHOULD REFERENCE DESIGN DOCUMENTS PROVIDED BY T-MOBILE FOR THIS CURRENT PROJECT CONFIGURATION, IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS & NEC STANDARDS & PRACTICES.

| VOLTS | OCPD SIZE | WIRE SIZE | GROUND | CONDUIT |
|----------------|-----------|------------|--------|---------|
| | 80A/2P | 3-#3 AWG | #8 AWG | 1-1/4" |
| 120/240V | 100/2P | 3-#2 AWG | #8 AWG | 1-1/4" |
| OR 120/208V | 125A/2P | 3-#3/0 AWG | #6 AWG | 2" |
| | 150A/2P | 3-#3/0 AWG | #6 AWG | 2" |
| | 200A/2P | 3-#3/0 AWG | #6 AWG | 2" |
| | 80A/2P | 2-#3 AWG | #8 AWG | 1-1/4" |
| 240V | 100/2P | 2-#2 AWG | #8 AWG | 1-1/4" |
| OR | 125A/2P | 2-#3/0 AWG | #6 AWG | 2" |
| 208V | 150A/2P | 2-#3/0 AWG | #6 AWG | 2" |
| | 200A/2P | 2-#3/0 AWG | #6 AWG | 2" |

ELECTRICAL NOTES



1 FENTON MAIN SUITE 300 **CARY, NC 27511** PHONE: (919) 468-0112

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| FOR CONSTRUCTION | EDNA | 7/10/2024 |
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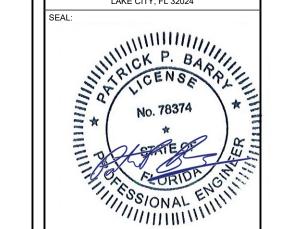
ATC SITE NUMBER: 303048 ATC SITE NAME:

LACROSSE FL 6

T-MOBILE SITE NAME:

9JK0174A

SITE ADDRESS: 183 SOUTHEAST WATERLEAF DRIVE LAKE CITY, FL 32024



Digitally Signed: 2024-07-10



| ATC PROJ. #: | 14863653_G0 |
|--------------|-------------|
| CUST. ID: | 9JK0174A |
| CUST. #: | 9JK0174A |
| | |

GROUNDING DETAILS

SHEET NUMBER

E-501

REVISION

CONDUIT USE TABLES

🚁 iQ.link — Link Budget Report Date Printed: 05-APR-2024 Create Date: 05-APR-2024 Link ID: 3011892 Link Name: 9JK0174A_9JK0345B Region: South Created By: CVance5 Distance (mi) vs. Height (ft) Path length (6.76 mi) 9JK0174A Frequency (GHz) = 11.00 GHz 9JK0345B Latitude: 29-57- 5.4 N K1: 1.33 Latitude: 29-54-31.2 N Longitude: 82-34-14.6 W %F1: 0.60 Longitude: 82-40-19.6 W Azimuth: 244.15 Deg K2: 0.67 Azimuth: 64.10 Deg Elevation: 150.92 ft %F2: 0.30 Elevation: 75.46 ft

Antenna CL: 194.00 ft AGL K3: 1.33 Antenna CL: 250.00 ft AGL %F3: 1.00

| Transmission details | | | | | | | |
|------------------------------------|--------------------|--------------------|--|--|--|--|--|
| SITE ID: | 9JK0174A | 9JK0345B | | | | | |
| [CLUSTER_ID_LABEL]: | [CLUSTER_ID_A] | [CLUSTER_ID_B] | | | | | |
| [CALL_SIGN_LABEL]: | [CALL_SIGN_A] | [CALL_SIGN_B] | | | | | |
| ASR #: | | | | | | | |
| AAV_CONTRACT_ID: | ATT224 | WST185- | | | | | |
| AAV_CONTRACT_STATUS: | Selected | Selected | | | | | |
| Ethernet Installed: | Ethernet | Ethernet | | | | | |
| Latitude: | 29-57- 5.4 N | 29-54-31.2 N | | | | | |
| Longitude: | 82-34-14.6 W | 82-40-19.6 W | | | | | |
| Azimuth (deg): | 244.15 Deg | 64.10 Deg | | | | | |
| Vertical angle (deg): | 0.07 Down | 0.01 Down | | | | | |
| Elevation: | 150.92 ft | 75.46 ft | | | | | |
| Antenna model: | VHLP4-11WA | VHLP4-11WA | | | | | |
| Antenna manufacturer: | ANDREW CORPORATION | ANDREW CORPORATION | | | | | |
| Antenna Id: | 228 | 228 | | | | | |
| Antenna gain (dBi): | 40.70 dBi | 40.70 dBi | | | | | |
| Antenna diameter: | 3.94 ft | 3.94 ft | | | | | |
| Antenna CL: | 194.00 ft AGL | 250.00 ft AGL | | | | | |
| Diversity Antenna model: | | | | | | | |
| Diversity Antenna manufacturer: | | | | | | | |
| Diversity Antenna Id: | | | | | | | |
| Diversity Antenna gain (dBi): | | | | | | | |
| Diversity Antenna diameter: | | | | | | | |
| Diversity Antenna CL: | | 1 | | | | | |
| Branch Loss Tx/Rx (dB): | 4.60/4.60 | 4.60/4.60 | | | | | |
| Attenuator Common/Tx/Rx (dB): | | | | | | | |
| Waveguide #1 Model, Len, Loss(dB): | | † | | | | | |
| Waveguide #2 Model, Len, Loss(dB): | | | | | | | |
| Waveguide #3 Model, Len, Loss(dB): | | | | | | | |

| Total Waveguide Loss (dB): | | |
|-----------------------------------|-----------------------|-----------------------|
| Other Losses (dB): | 0.00 | 0.00 |
| Frequency (GHz): | 11.00 |) GHz |
| Path length: | 6.76 | 6 mi |
| Free space loss (dB): | 134.0 | 01 dB |
| Atmospheric absorption loss (dB): | 0.16 | 6 dB |
| Obstruction Loss (dB): | 0.00 dB | (oLOS) |
| Field margin (dB): | 1.00 |) dB |
| Net path loss (dB): | 58.37 dB | 58.37 dB |
| Configuration: | 4+0/DP/DM | 4+0/DP/DM |
| Radio model: | IP20D-HP11-80X-A_4501 | IP20D-HP11-80X-A_4501 |
| Radio manufacturer: | Ceragon Networks | Ceragon Networks |
| Radio Id: | 754 | 754 |
| Frequency Plan: Frequency (MHz): | High: N/A | Low: N/A |
| Polarization: | N/A | N/A |
| Emission designator: | 80M0D7W | 80M0D7W |
| Climatic factor: | 1. | 00 |
| Terrain roughness factor: | 2.1 | 26 |
| Average annual temperature: | 68.26 | degF |
| Design Path Polarity: | Veri | tical |
| Rain region: | Jacksonvi | lle, Florida |
| 0.01% Rain Rate: | 72.9 r | nm/hr |
| | Passive Repeaters | |
| Antenna model: | | |
| Antenna manufacturer: | | |
| | | |

| М | odulation / Throughput | Tx Power | A/B (dBm) | EIRP A/ | B (dBm) | | iignal A/B Bm) | Comp Fade Margi | osite in A/B (dB) | | |
|---|------------------------|----------|-----------|---------|---------|--------|-------------------|--------------------|----------------------|--------|--------|
| | BPSK 67.00 Mbps | 36.00 | 36.00 | 72.10 | 72.10 | -25.97 | -25.97 | 59.33 | 59.33 | -86.30 | -86.30 |

SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

0

| 4QAM 136.00 Mbps | 36.00 | 36.00 | 72.10 | 72.10 | -25.97 | -25.97 | 53.53 | 53.53 | -80.50 | -80.50 |
|--------------------|-------|-------|-------|-------|--------|--------|-------|-------|--------|--------|
| 8QAM 195.00 Mbps | 36.00 | 36.00 | 72.10 | 72.10 | -25.97 | -25.97 | 49.83 | 49.83 | -76.80 | -76.80 |
| 16QAM 279.00 Mbps | 35.00 | 35.00 | 71.10 | 71.10 | -26.97 | -26.97 | 45.83 | 45.83 | -73.80 | -73.80 |
| 32QAM 368.00 Mbps | 35.00 | 35.00 | 71.10 | 71.10 | -26.97 | -26.97 | 42.43 | 42.43 | -70.40 | -70.40 |
| 64QAM 451.00 Mbps | 34.00 | 34.00 | 70.10 | 70.10 | -27.97 | -27.97 | 38.53 | 38.53 | -67.50 | -67.50 |
| 128QAM 533,00 Mbps | 33.00 | 33.00 | 69.10 | 69.10 | -28.97 | -28.97 | 34.53 | 34.53 | -64.50 | -64.50 |
| 256QAM 614.00 Mbps | 32.00 | 32.00 | 68.10 | 68.10 | -29.97 | -29.97 | 30.83 | 30.83 | -61.80 | -61.80 |
| 512QAM 675.00 Mbps | 32.00 | 32.00 | 68.10 | 68.10 | -29.97 | -29.97 | 28.13 | 28.13 | -59.10 | -59.10 |
| 1KLQAM 735.00 Mbps | 31.00 | 31.00 | 67.10 | 67.10 | -30.97 | -30.97 | 23.93 | 23.93 | -55.90 | -55.90 |
| 1KHQAM 780.00 Mbps | 31.00 | 31.00 | 67.10 | 67.10 | -30.97 | -30.97 | 23.53 | 23.53 | -55.50 | -55.50 |
| 2KQAM 826.00 Mbps | 31.00 | 31.00 | 67.10 | 67.10 | -30.97 | -30.97 | 20.63 | 20.63 | -52.60 | -52.60 |

| <u> </u> | 1 | | | | | | | | 1 | | 1 | |
|-----------------------|-----------------------|--------|------------------|---------|------------------|---------|-------------|---------|--------------|---------|----------------------|-------------|
| Modulation/Throughput | Worst Month Multipath | | Worst Month Rain | | Annual Multipath | | Annual Rain | | Total Annual | | Total Active in Mode | |
| | (100-%) | (s) | (100-%) | (s) | (100-%) | (s) | (100-%) | (s) | (100-%) | (s) | (100-%) | (s) |
| BPSK 67.00 Mbps | 99.999996 | 0.12 | 99.998255 | 45.85 | 99.999998 | 0.48 | 99.999798 | 63.66 | 99.999797 | 64.14 | 0.000122 | 38.34 |
| 4QAM 136.00 Mbps | 99.999983 | 0.45 | 99.997402 | 68.28 | 99.999994 | 1.83 | 99.999681 | 100.65 | 99.999675 | 102.48 | 0.000125 | 39.33 |
| 8QAM 195.00 Mbps | 99.999960 | 1.05 | 99.996592 | 89.57 | 99.999986 | 4.30 | 99.999564 | 137.51 | 99.999550 | 141.81 | 0.000205 | 64.75 |
| 16QAM 279.00 Mbps | 99.999900 | 2.63 | 99.995366 | 121.77 | 99.999966 | 10.79 | 99.999379 | 195.77 | 99.999345 | 206.56 | 0.000268 | 84.58 |
| 32QAM 368.00 Mbps | 99.999781 | 5.76 | 99.993921 | 159.77 | 99.999925 | 23.60 | 99.999152 | 267.53 | 99.999077 | 291.13 | 0.000493 | 155.53 |
| 64QAM 451.00 Mbps | 99.999462 | 14.15 | 99.991587 | 221.10 | 99.999816 | 57.94 | 99.998767 | 388.72 | 99.998584 | 446.66 | 0.000879 | 277.11 |
| 128QAM 533.00 Mbps | 99.998648 | 35.53 | 99.988117 | 312.29 | 99.999539 | 145.54 | 99.998166 | 578.23 | 99.997705 | 723.77 | 0.001467 | 462.67 |
| 256QAM 614.00 Mbps | 99.996830 | 83.30 | 99.983468 | 434.45 | 99.998918 | 341.17 | 99.997320 | 845.27 | 99.996238 | 1186.44 | 0.001838 | 579.50 |
| 512QAM 675.00 Mbps | 99.994098 | 155.11 | 99.978710 | 559.50 | 99.997986 | 635.29 | 99.996415 | 1130.65 | 99.994400 | 1765.94 | 0.005415 | 1707.80 |
| 1KLQAM 735.00 Mbps | 99.984475 | 407.99 | 99.968058 | 839.43 | 99.994701 | 1670.97 | 99.994283 | 1802.76 | 99.988985 | 3473.74 | 0.000783 | 246,90 |
| 1KHQAM 780.00 Mbps | 99.982977 | 447.36 | 99.966742 | 874.02 | 99.994190 | 1832.19 | 99.994012 | 1888.45 | 99.988202 | 3720.64 | 0.007983 | 2517.36 |
| 2KQAM 826.00 Mbps | 99.966808 | 872.27 | 99.955121 | 1179.43 | 99.988672 | 3572.48 | 99.991548 | 2665.52 | 99.980219 | 6238.01 | 99.980219 | 31529761.99 |

Multipath fading method - VIGANTS Rain fading method - Crane City/Jacksonville, Florida

5

SUPPLEMENTAL

SHEET NUMBER:

REVISION:

R-602

VHLP4-11W/A



1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 10.125-11.700 GHz

Product Classification

Product Type Microwave antenna Product Brand Valutine®

General Specifications

Antenna Type VHLP - ValuLine® High Performance Low Profile Antenna, single-

polarized

Polarization Single Side Struts, Included 1 inboard Side Struts, Optional 1 inboard

Dimensions

1.2 m | 4 ft Diameter, nominal

VHLP4-11W/A

1.3 VSWR Radiation Pattern Envelope Reference (RPE) 7182A

Electrical Compliance Brazil Anatel Class 2 | Canada SRSP 310.5 | Canada SRSP 310.7 Part B | ETSI 302 217 Class 3 | US FCC Part 101A @ 10.55-10.7

GHz | US FCC Part 101A @ 10.7-1 1.7 GHz | US FCC Part 101B @ 10.125-11.7 GHz

Mechanical Specifications

Compatible Mounting Pipe Diameter 115 mm | 4.5 in Fine Azimuth Adjustment Range ±15°

Fine Elevation Adjustment Range ±15°

Wind Speed, operational 200 km/h | 124,274 mph 250 km/h | 155.343 mph Wind Speed, survival

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 5326 N | 1,197.333 lbf 2638 N | 593.046 lbf Side Force (FS) Twisting Moment (MT) 2162 N-m | 19,135 312 in lb 2862 N | 643.403 lbf Force on Inboard Strut Side Zca without Ice 43 mm | 1.693 in Zcg with 1/2 in (12 mm) Radial Ice 284 mm | 11.181 in Weight with 1/2 in (12 mm) Radial Ice 74 kg | 163.142 lb

FibeAir IP-20A

CERAGON

High-availability, split-mount, modular multicore aggregation node

Designed uniquely for the North American market, FibeAir IP-20A is a highly-flexible aggregation node that delivers multi-Gbps radio capacity at a very large scale. Now available with multicore technology and new radio units, IP-20A features high modularity and flexibility and supports up to B radio links with an exceptionally wide variety of line interfaces via pluggable modules, in a wide range of network topologies - making it the preferred node for your transport network's aggregation sites

The FibeAir IP-20A operates within the entire microwave and millimeter-wave spectrum, offering high spectral efficiency across licensed and license-exempt frequency bands (4-86 GHz). It also supports all high-speed data interfaces (10G/1G/FE) and a wide variety of TDM interfaces (DS1, OC-3); operates with a wide variety of multicore, standard and high power radios; and accommodates various network configurations including 1x 8+0, 4x 2+0, and 8x 1+0.

For exact feature availability, contact your Ceragon representative. In case of discrepancy between this Datasheet and the Technical Description for the product, the Technical Description prevails.

General

Assembly options

1RU Chassis - 5x Universal slots; 2RU Chassis -10x Universal slots Redundant TCC slots (2RU chassis only)

Supported Frequency Range

Standard Power: 6-42 GHz, 71-76 GHz, 81-86 GHz

High Power: 4-11 GHz

Supported RFUs

RFU-D - High-capacity MultiCore radio

RFU-D-HP - High-capacity, high-power MultiCore radio

RFU-E - High capacity E-band radio RFU-S - High-capacity radio

RFU-C - High-capacity radio

RFU-A - High capacity, high power radio

1500HP/RFU-HP - High-capacity, high-power radio

Typical Radio Configurations

N+0 (up to N=8), 1x 8+0, 2x 4+0, 4x 2+0, 8x 1+0, 1+1, 2+2

Split Mount (Standard Power, High Power)

All Indoor (High Power)

Radio Features

Multi-Carrier Adaptive Bandwidth Control (up to 8+0) Protection and Diversity: HSB, SD (BBC and BBS) High spectral utilization: BPSK to 4096 QAM w/ACM

Channel bandwidth:

 4-42 GHz: up to 112 MHz . E-Band: up to 500 MHz

112 channels are planned for future

Multiband (with IP-50E/IP-20E)

Advanced Space Diversity (ASD)

Field Replaceable Diplexers/ Field Replaceable Channel Filters

Ethernet

Ethernet Interfaces

1RU/2RU Traffic Interfaces - Up to 10 x 1000Base-T (RJ-45) or 1000base-X (SFP)

Up to 2 x 10Gbase-X (SFP+)

Management Interfaces - 2 x 10/100 Base-T (RJ-45)

SFP Types - Optical 1000Base-LX (1310 nm) or SX (850 nm)

Ethernet Features

MTU - 9600 Bytes

Quality of Service

 Multiple Classification criteria (VLAN ID, P-bits, IPv4 DSCP, IPv6 TC, MPLS EXP)

. 8 priority queues per port

. Deep buffering (configurable up to 64 Mbit per queue)

· WRED

P-bit marking/remarking

4K VLANS

VLAN add/remove

MSTP, ERP (ITU-T G.8032)

Frame Cut Through - controlled latency and PDV for delay sensitive applications

Header DeDuplication - Capacity boosting by eliminating inefficiency in all layers (L2,MPLS, L3,L4, Tunneling - GTP for

Y.1731 Ethernet OAM

V.1731 Ethernet Bandwidth Notification (ETH-BNI

Technical Specifications

Mechanical Specifications

1RU Chassis - 1.8*(H), 17.5*(W), 9.6*(D), 6.6 lbs. (empty); 2RU Chassis - 3.46"(H), 17.5"(W), 9.6"(D), 13.2 lbs. (empty)

Plugin Card Weights: 0.66 - 3.3 lbs.

RFU-D-9.05"(H), 9.17"(W), 3.85"(D), 14.33 lbs. (includes diplexer unit)

RFU-D-HP - 12.56"(H), 11.26"(W), 4.21"(D), 26.5 lbs.

(includes diplexer or OCU unit) RFU-E - 8.66"(H), 7.8"(W), 3"(D), 6.6 lbs.

RFU-S = 8.54(H), 8.27"(W), 3.35"(D), 8.82 lbs.

REU-C = 7.87"(H), 7.87"(W), 3.35"(D), 9 lbs.

RFU-A - 1.8"(H), 19"(W), 13.18"(D), 26.45 lbs.

1500HP/RFU-HP - 19"(H), 6"(W), 11"(D), 15 lbs. (excluding

1500HP/REU-HP OCB Branching (Split Mount and Compact All-Indoor) - 16.5"(H), 4.33"(W), 15"(D), 15 lbs. per

Environmental Specifications

IDU: +23°F to +131°F (-13°F to +149°F extended); RFU: -27°F to +131°F (-49°F to +140°F extended)

Power Input Specifications

IDU Standard Input: -48 VDC

IDU DC Input range: -40 to -60 VDC, with maximum current

of up to 15A (1RU chassis) or 30A (2RU chassis)

Dual-feed power support

Power Consumption Specifications

TCC - 25W; RMC - 17W; RIC-D - 12W; 1X10G LIC - 12W; 4XGE LIC - 9W: 16XDS1 LIC - 17W: ch-OC-3 LIC - 25W:

Fans (1RU/2RU) = 6/30W max (4/6W-25°C)

OC-3 - 9W RFU-D - 75W

REU-D-HP - 130W/180W

RFU-E - 43W

RFU-5 - 43W

RFU-C - 6-26 GHz (1+0/1+1): 22W/39W; 28-42 GHz

(1+0/1+1): 26W/43W

RFU-A* (1+0) - High Level: 77W; Medium Level: 53W; Low Level: 43W; Mute: 24W

RFU-A* (1+1 HSB/SD BBS) - High Level: 101W:

Medium Level: 77W; Low Level: 67W; Mute: 48W

REU-HP (6-8 GHz) - Max Bias: 73W: Mid Bias: 48W: Min Bias: 3dW: Mute: 18W

RFU-HP (11 GHz) - Max Bias: 74W; Mid Bias: 64W;

1500HP - Max Bias: 85W; Mid Bias: 72W; Mute: 29W

SUPPLEMENTAL

R-603

REVISION

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Mount Analysis Report

ATC Asset Name : Lacrosse FL 6

ATC Asset Number : 303048

Engineering Number : 14863653_C8_01

Mount Elevation : 191.75 ft

Proposed Carrier : T-Mobile

Carrier Site Name : 9JK0174A

Carrier Site Number

: 183 Southeast Waterleaf Drive Site Location

: 9JK0174A

: Columbia

Lake City, FL 32024-0001 29.951501, -82.570729

Date : June 26, 2024

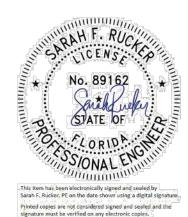
Max Usage : 88%

Analysis Result : Contingent Pass

Prepared By: Joseph Swier Structural Engineer I

County





Sarah Rucker

Digitally signed by Sarah Rucker Date; 2024.06.27

18:51:12 -04'00°

COA: 9053

ATC Tower Services, LLC - 1 Fenton Main, Suite 300 - Cary, NC 27511 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com



Eng. Number 14863653_C8_01 June 26, 2024 Page 3

Introduction

The purpose of this report is to summarize results of the mount analysis performed for T-Mobile at 191.75 ft.

Supporting Documents

| Specifications Sheet: | Sabre C10857007C, dated October 19, 2016 |
|-----------------------------|--|
| Radio Frequency Data Sheet: | RFDS ID #9JK0174A, dated May 30, 2024 |
| Reference Photos: | Site photos from 2023 |

Analysis

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

| Basic Wind Speed: | 121 mph (3-Second Gust) |
|-------------------------------|---|
| Basic Wind Speed w/ Ice: | No Ice Considered |
| Codes: | ANSI/TIA-222-H / 2021 IBC / 8th ED (2023) Florida Building Code |
| Exposure Category: | С |
| Risk Category: | |
| Topographic Factor Procedure: | Method 2 |
| Feature: | Flat |
| Crest Height (H): | 0 ft |
| Crest Length (L): | 0 ft |
| Spectral Response: | Ss = 0.081, S1 = 0.048 |
| Site Class: | D - Stiff Soil - Default |
| Live Loads: | Lm = 500 lbs, Lv = 250 lbs |

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

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above provided the modifications listed below are completed:

- On Beta, install P4 (4.5" x 72") in mount pipe position B2 to be located 3" from right end of mount face looking out from tower. Connect with Site Pro 1 SCX7-U (or approved equivalent) crossover plate kits.
- No structural failures were addressed with the noted contingencies. Contingencies address Carrier's antenna spacing requirements.

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact MountAnalysis@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

ATC Tower Services, LLC - 1 Fenton Main, Suite 300 - Cary, NC 27511 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com

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

ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO

VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

SUPPLEMENTAL

REVISION:

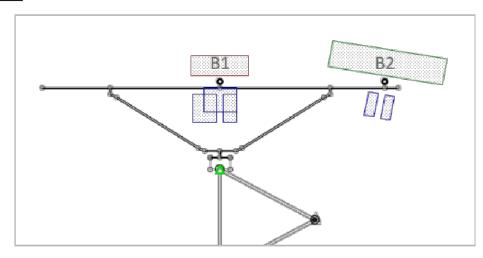
SHEET NUMBER:

R-604



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Mount Layout



Equipment Position Table

| MP | RAD Center (ft) | Qty. | Antenna Model | Max Width (in) | Left (in) | Right (in) |
|-------------------------------------|--------------------|------------------------|--------------------------------------|----------------------|-----------|---------------|
| B1 193.0 193.0 193.0 193.0 | 193.0 | 1 | Commscope FFV4-65C-R3-V1 | | NI/A | N1/A |
| | 193.0 | 1 | Ericsson Radio 4449 B12,B71 (75 lbs) | 25.2 | | |
| | 1 | Ericsson RRUS 4415 B25 | 25.2 | N/A | N/A | |
| | 193.0 | 1 | Ericsson 4424 B25 | | | |
| B2 — | 193.0 | 1 | Commscope VHLP4-11W/A | | | - |
| | 193.0 | 2 | Ceragon FibeAir IP-20D-HP | | - | |

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