



AMERICAN TOWER®

ATC SITE NAME: WOODS CHAPEL ATC SITE NUMBER: 306042 AT&T SITE ID: WSKSL0040816 AT&T FA CODE: 10000448 AT&T SITE NAME: WOODS CHAPEL SITE ADDRESS: 1204 N.E. WOODS CHAPEL RD LEES SUMMIT, MO 64064



AT&T PACE NUMBER(s): MRKSL071270,MRKSL071377,MRKSL071558,MRKSL072913,MRKSL073771,MRKSL074119,MRKSL075821,MRKSL076228,MRKSL077009 AT&T IWM NUMBER(s): WSKSL0040816,WSKSL0040403,WSKSL0044133,WSKSL0042880,WSKSL0042168,WSKSL0039503,WSKSL0039772,WSKSL0043559,WSKSL0045732

BIRD WATCH SITE: PLEASE CONTACT BIRD.WATCH@AMERICAN AMERICAN TOWER NOC AT 877-518-6937 FOR

AT&T AMENDMENT PLAN

| COMPLIANCE CODE | PROJECT SUI | MMARY | PROJECT DESCRIPTION | | SHEET INDEX | | |
|---|---|---------------|---|--------------|-------------------------------|------|---|
| ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS | SITE ADDRE | | THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: | SHEET NO: | DESCRIPTION: | REV: | |
| OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES, NOTHING IN THESE PLANS IS | LEES SUMMIT, MO 64064 | | REMOVE (8) ANTENNA(s), (12) RRU(s), AND (3) TTA(s) | G-001 | TITLE SHEET | 0 | |
| TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. | COUNTY: JACH | | INSTALL MOUNT MODS, (5) ANTENNA(s), AND (12) RRU(s) | G-002 | GENERAL NOTES | 0 | T |
| INTERNATIONAL BUILDING CODE (IBC 2018) | GEOGRAPHIC COOI | | EXISTING (4) ANTENNA(s), (3) SQUID(s), (2) 2" CONDUIT, (8) 1 5/8" COAX, | C-101 | DETAILED SITE PLAN | 0 | T |
| NATIONAL ELECTRICAL CODE (NFPA 70, NEC 2014) | 38° 59' .311" N LONGITUDE: -94.34981584 94° 20' 59.337" W | | (6) 0.78" 8 AWG 6 DC TRUNK, (2) 0.39" FIBER TRUNK, AND (1) 3/8" RET CABLE(s) TO REMAIN | C-201 | TOWER ELEVATION | 0 | T |
| | | | | C-401 | ANTENNA PLAN AND SCHEDULE | 0 | T |
| | GROUND ELEVATION | N: 973' AMSL | | C-402 | ANTENNA PLAN AND SCHEDULE | 0 | T |
| | | | | C-501 | CONSTRUCTION DETAILS | 0 | T |
| | | | | E-501 | GROUNDING DETAILS | 0 | T |
| | | | PROJECT NOTES | | SUPPLEMENTAL SHEETS (6 PAGES) | | T |
| | PROJECT T | ГЕАМ | THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A | | | | T |
| | TOWER OWNER: | APPLICANT: | MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND | | | | T |
| | AMERICAN TOWER | AT&T MOBILITY | DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL | | | | T |
| | 10 PRESIDENTIAL WAY WOBURN, MA 01801 | | IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. | | | | Ť |
| | ENGINEER: | | 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED | | | | Ť |
| | ATC TOWER SERVICES LLC | | REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE | | | | T |
| UTILITY COMPANIES | - 1 FENTON MAIN, STE 300 CARY, NC 27511 | | COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL | | | | Ť |
| | _ | | CHANGE UNDER CFR § 1.61000 (B)(7). | | | | + |
| POWER COMPANY: KANSAS CITY POWER & LIGHT PHONE: (888) 471-5275 | PROPERTY OWNER: | | PROJECT LOCATION DIRECTIONS | | | | t |
| TELEPHONE COMPANY: AT&T | PAUL L KELLEY TRUST 5619 AVE N | | | | | | t |
| PHONE: (888) 544-8847 | KEARNEY, NE 68847 | | FROM DOWNTOWN KANSAS CITY, MO TAKE I-70 WEST FOR 12.9 MILES, AT EXIT 15A, TAKE RAMP (RIGHT) ONTO I-470 [SR-291] FOR | | | | t |
| 811 | | | 4.1 MILES, AT EXIT 12, TURN RIGHT ONTO RAMP, TURN LEFT (EAST) ONTO NE WOODS CHAPEL RD FOR 0.4 MILES, TURN LEFT (NORTH) | | | | t |
| | | | ONTO DRIVEWAY IN FRONT OF TOWER, ATC SIGN IN LOCATED ON THE EAST SIDE OF THE DRIVEWAY | | | | + |
| Know what below. Call before you dig. | | | | | | | + |

| TEL | OCATION | | AMERICAN TOWER® ATC TOWER SERVICES LLC 1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 2015011232 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. |
|-----|----------------------------|-----|--|
| - | | 1.5 | REV. DESCRIPTION BY DATE |
| | P ER.COM OR SISTANCE | | FOR CONSTRUCTION AP 10/01/24 A |
| | DATE: | BY: | SITE ADDRESS: 1204 N.E. WOODS CHAPEL RD |
| _ | 10/01/24 | AP | LEES SUMMIT, MO 64064 |
| | 10/01/24 | AP | SEAL. |
| | 10/01/24 | AP | Ele A South |
| | 10/01/24 | AP | SCOTTO. |
| | 10/01/24 | AP | WIRGAU |
| | 10/01/24 | AP | |
| | 10/01/24 | AP | N R |
| | 10/01/24 | AP | PE-2016036844 |
| | | | T&TA 😂 |
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| | | | ATC PROJ. #: 14863347_G0 CUST. ID: WSKSL0040816 |
| | | | CUST. #: 10000448 |
| | | | TITLE SHEET |
| _ | | | SHEET NUMBER: REVISION: |
| | | | G-001 0 |
| | | | |

GENERAL CONSTRUCTION NOTES:

- OWNER FURNISHED MATERIALS, AT&T "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - AC/TELCO INTERFACE BOX (PPC)
 - ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION) D. TOWERS, MONOPOLES
 - TOWER LIGHTING
 - GENERATORS & LIQUID PROPANE TANK
 - ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- ANTENNAS (INSTALLED BY OTHERS)
- TRANSMISSION LINE
- TRANSMISSION LINE JUMPERS
- TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS TRANSMISSION LINE GROUND KITS
- HANGERS
- HOISTING GRIPS
- O. BTS EQUIPMENT
- 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 XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T 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 ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS 7
- 8 DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION 9. SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED 10. FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES. GROUNDS 11. DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T REP 12. PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS. 13.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS 14. PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING 15. INSTALLATION USING A SILICONE SEALANT
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET. 16. CONTRACTOR SHALL NOTIFY THE AT&T REP AND ENGINEER OF RECORD IMMEDIATELY
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE 17. AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF 18. EACH DAY
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER 19. CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY
- CONTRACTOR SHALL FURNISH AT&T AND AMERICAN TOWER CORPORATION (ATC) WITH 20. A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK
- PRIOR TO SUBMISSION OF BID. CONTRACTOR SHALL COORDINATE WITH AT&T REP TO 21. 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.

DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THE

- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T 23. SPECIFICATIONS AND REQUIREMENTS
- 24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S 25. SPECIFICATIONS AND LOCATED ACCORDING TO AT&T SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT
- 27. CONTRACTOR SHALL NOTIFY AT&T 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
- WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL 28. 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.
- 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.
- ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER 32. BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T REP. ANY WORK FOUND BY THE AT&T REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
- 33. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
- AT&T FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE HE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
- 35. AT&T OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH. IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH TH CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T OR THEIR

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

WORK INCLUDED

29.

31.

- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T 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 AT&T SPECIFICATIONS
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE
- CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED

G. ANTENNA AND COAXIAL CABLE GROUNDING:

- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR FOLIAL
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS) 3.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO

| AMERICAN TOW | E R ® |
|---|---|
| ATC TOWER SERVICES | LLC |
| 1 FENTON MAIN SUITE 300 | |
| CARY, NC 27511 PHONE: (919) 468-0112 | |
| 2015011232 | |
| THE USE AND PUBLICATION OF THESE SHALL BE RESTRICTED TO THE ORIGIN. WHICH THEY ARE PREPARED. ANY DISCLOSURE OTHER THAN THAT WHIC TO AMERICAN TOWER OR THE SPECIFI IS STRICTLY PROHIBITED. NEITHER THE NOR THE ENGINEER WILL BE PROVIDIN CONSTRUCTION REVIEW OF THIS PI CONTRACTOR(S) MUST VERIFY ALL DI AND ADVISE AMERICAN TOWER OR THE CARRIER OF ANY DISCREPANCIES. AI ISSUANCE OF THIS DRAWING IS SUPEF THE LATEST VERSION. | AL SITE FOR USE OR H RELATES ED CARRIER ARCHITECT IG ON-SITE ROJECT. MENSIONS E SPECIFIED NY PRIOR |
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| ATC SITE NUMBER: | |
| 306042 | |
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| WOODS CHAPEL | |
| AT&T SITE NAME: | |
| WOODS CHAPEL | - |
| SITE ADDRESS: 1204 N.E. WOODS CHAPEL F | סא |
| LEES SUMMIT, MO 64064 | |
| SEAL: | |
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| ATC PROJ. #: 14863347_G0 CUST. ID: WSKSL0040816 | |
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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.**

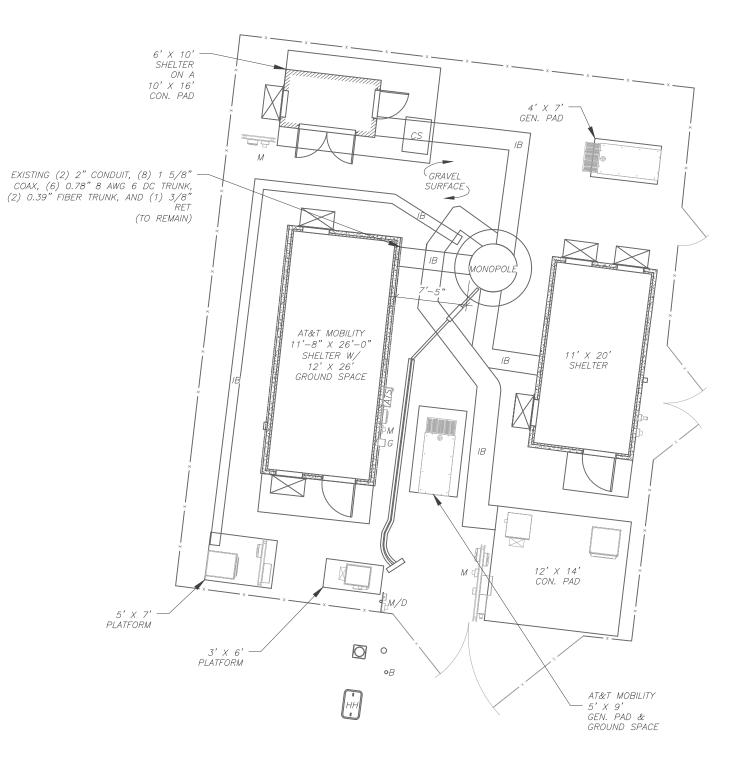
SITE PLAN NOTES:

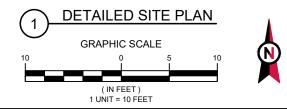
- 1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE AT&T 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.

GROUND SOW NOTES:

- 1. RETAIN (1) VERTIV STD -48VDC NETSURE 7100 PLANT 1000A
- 2. INSTALL (1) NEQ.53008 24 TO 58 RETRO FIT
- 3. RETAIN (10) VERTIV R48-2000E3 RECTIFIERS
- 4. INSTALL (7) VERTIV C48/58-1500P3 CONVERTERS
- 5. RETAIN (8) SBS190F BATTERIES
- 6. EXISTING (3) 200A BATTERY BREAKERS
- 7. BATTERY INSTALLATION DATE: 03/22/2022
- 8. REMOVE (1) DISTRIBUTION BOX
- 9. INSTALL (2) 6651S
- 10. INSTALL (1) 6601
- 11. INSTALL (1) 6610
- 12. INSTALL (1) XMU
- 13. INSTALL BREAKERS AS NEEDED PER ATT-CEM-18002

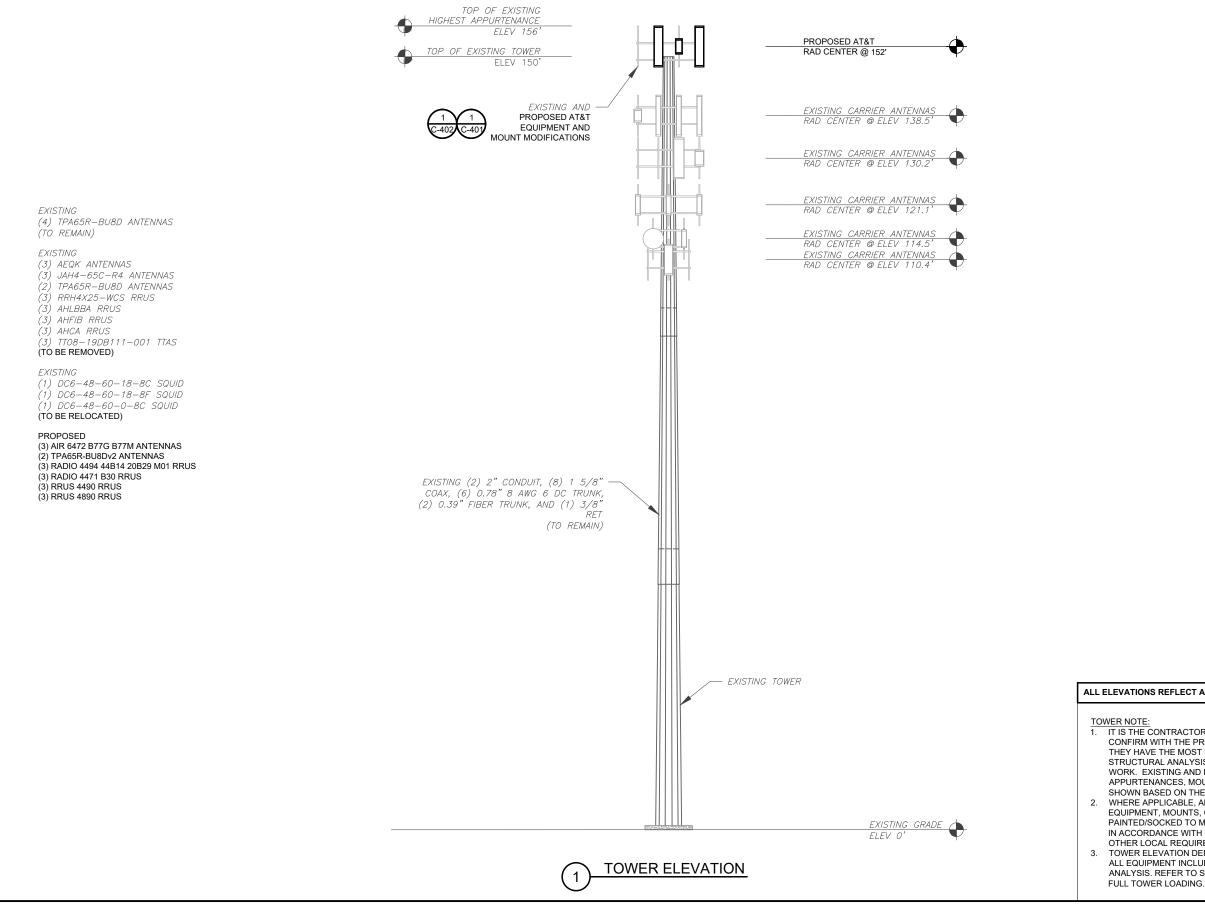
| | LEGEND |
|-------|---------------------------|
| 8 | GROUNDING TEST WELL |
| ATS | AUTOMATIC TRANSFER SWITCH |
| В | BOLLARD |
| CSC | CELL SITE CABINET |
| D | DISCONNECT |
| E | ELECTRICAL |
| F | FIBER |
| GEN | GENERATOR |
| G | GENERATOR RECEPTACLE |
| HH, V | HAND HOLE, VAULT |
| IB | ICE BRIDGE |
| К | KENTROX BOX |
| LC | LIGHTING CONTROL |
| М | METER |
| PB | PULL BOX |
| PP | POWER POLE |
| Т | TELCO |
| TRN | TRANSFORMER |
| × | CHAINLINK FENCE |
| | |





| AMERICAN TOW | | | | |
|--|------------|--|--|--|
| ATC TOWER SERVICES 1 FENTON MAIN | LLC | | | |
| SUITE 300 CARY, NC 27511 | | | | |
| PHONE: (919) 468-0112 | | | | |
| 2015011232 | | | | |
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| WOODS CHAPEL | | | | |
| AT&T SITE NAME: | | | | |
| WOODS CHAPEL | _ | | | |
| SITE ADDRESS: | | | | |
| 1204 N.E. WOODS CHAPEL F LEES SUMMIT, MO 64064 | RD | | | |
| SEAL | | | | |
| SCOTTA WIRGAU NUMBER PE-2016036844 | ALL X LAND | | | |
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| ATC PROJ. #: 14863347_G0 | | | | |
| CUST. ID: WSKSL0040816 | | | | |
| CUST. #: 10000448 | | | | |
| DETAILED SITE P | PLAN | | | |
| SHEET NUMBER: | REVISION: | | | |
| C-101 | | | | |
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EQUIPMENT.

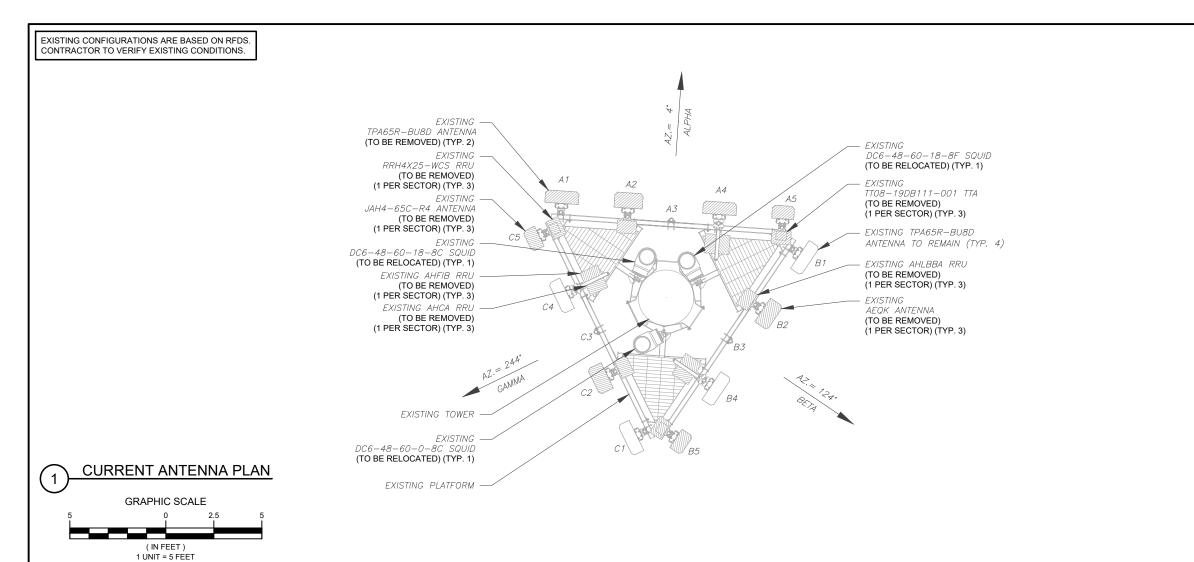


PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 09/10/24, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET. MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER

AMERICAN TOWER® ATC TOWER SERVICES LLC 1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 2015011232 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 VERIEY 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. DESCRIPTION BY DATE REV. \wedge FOR CONSTRUCTION AP 10/01/24 ATC SITE NUMBER: 306042 ATC SITE NAME: WOODS CHAPEL AT&T SITE NAME: WOODS CHAPEL SITE ADDRESS: 1204 N.E. WOODS CHAPEL RD LEES SUMMIT, MO 64064 SEAL: OF MISS -07 0 SCOTTA! WIRGAU * * NUMBER PE-2016036844 EER PRO TESSIONAL ENO ESSIONAL ENGI Digitally Signed: 2024-10-01 AT&T ATC PROJ. #: 14863347_G0 WSKSL0040816 CUST ID. 10000448 CUST. #: TOWER ELEVATION SHEET NUMBER: REVISION C-201 0

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

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. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR



| EX | | | | ANTENNA SCHEDULE | EXISTING | | | | |
|------------------------------|------------|---|----------------------|------------------|-------------|------|------------|-----------|---------|
| | Y | NON ANTENNA SUMMARY | | ANTENNA SUMMARY | | | | LOCATION | |
| MODE | STATUS | ADDITIONAL TOWER MOUNTED | STATUS | BAND | ANTENNA | POS | AZ | RAD | SECTOR |
| DC6-48 | entree | EQUIPMENT | 01/100 | BrittB | , | 100 | , <u>~</u> | 1010 | OLOTOIN |
| | - | _ | RMV | _ | TPA65R-BU8D | A 1 | | | |
| DC6-48 | RMV | AHLBBA RRU | RMV | _ | AEQK | A2 | | | |
| DC6-48 | _ | _ | - | — | _ | A3 | 4° | 1.101 | |
| | RMV RMV | AHCA RRU AHFIB RRU | RMV | _ | TPA65R-BU8D | A4 | 4 | 149' | ALPHA |
| | RMV RMV | RRH4X25-WCS RRU TT08-19DB111-001 TTA | RMV | _ | JAH4-65C-R4 | A5 | | | |
| | - | - | B1 TPA65R-BU8D - RMN | | | | | | |
| | RMV | AHLBBA RRU | RMV | _ | AEQK | B2 | | | |
| | - | _ | - | _ | _ | B3 | 10.11 | | 0.571 |
| EXI | RMV RMV | | _ | TPA65R-BU8D | B4 | 124° | 149' | BETA | |
| CABLE Q | RMV RMV | RRH4X25-WCS RRU TT08-19DB111-001 TTA | RMV | _ | JAH4-65C-R4 | B5 | | | |
| (2) 2" CONL | _ | _ | RMN | _ | TPA65R-BU8D | C1 | | | |
| COAX, (6) 0. TRUNK, (2) 0 | RMV | AHLBBA RRU | RMV | _ | AEQK | C2 | | 149' 244* | |
| AND (1 | _ | _ | | _ | — | C3 | | | |
| | RMV RMV | AHCA RRU AHFIB RRU | RMN | _ | TPA65R-BU8D | C4 | 244* | | GAMMA |
| L | RMV RMV | RRH4X25-WCS RRU TT08-19DB111-001 TTA | RMV | C5 JAH4-65C-R4 - | | | | | |

STATUS ABBREVIATIONS RMV: TO BE REMOVED RMN: TO REMAIN REL: TO BE RELOCATED ADD: TO BE ADDED

2

EQUIPMENT SCHEDULE



| AMERICAN TOWER® ATC TOWER SERVICES LLC 1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (914) 468-0112 2016011232 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 IS AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRUCTON REVIEW OF THIS PROJECT. CONTRACTORS) MUST VERFY ALL DIMENSIONS AND DISCLOSURE OTHE SPECIFIED CARRIER ON THE VERICAN TOWER OR THE SPECIFIED CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTORS) MUST VERFY ALL DIMENSIONS AND DISCLOSURE OTHES PROJECT. CONTRACTORS MUST VERFY ALL DIMENSIONS AND DISCLOSURE OTHES PROJECT. ATC SITE NUMBER: 306042 ATC SITE NUMBER: 306042 ATC SITE NAME: WOODDS CHAPEL ATT SITE NAME: WOODDS CHAPEL SITE ADDRESS: 1204 N.E. WOODS CHAPEL RD LEES SUMMIT, MO 64064 SEAL: OF MISSON DIGITALLY SIGNED: 2024-10-01 WINGAU NUMBER PE-2016036844 WINGAU NUMBER PE-2016036844 MUMBER PE-2016036844 MUMBER PE-2016036844 ANTENNAP LAN AND SCHEDULE SHEET NUMBER: C-4001 0 | | | |
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| EXISTING SQUID SUMMAR | RY |
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| MODEL NUMBER | STATUS |
| DC6-48-60-18-8C | REL |
| DC6-48-60-18-8F | REL |

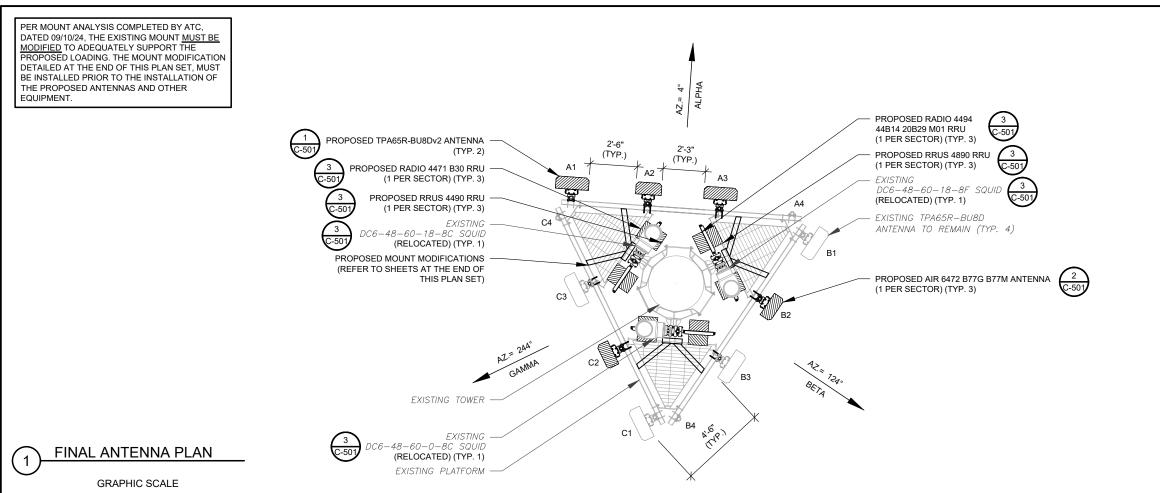
REL

EXISTING CABLING SUMMARY

DC6-48-60-0-8C

| QTY, SIZE, TYPE | STATUS |
|---|--------|
| NDUIT, (8) 1 5/8" 0.78" 8 AWG 6 DC 0.39" FIBER TRUNK, (1) 3/8" RET | RMN |
| _ | _ |

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.



5 0 2.5 (IN FEET) 1 UNIT = 5 FEET

FINAL ANTENNA SCHEDULE NOTES GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL LOCATION ANTENNA SUMMARY NON ANTENNA SUMMARY MOD ADDITIONAL TOWER MOUNTED RRU DC TRUNK CONSTRUCTION DRAWINGS. GC SECTOR RAD AZ POS ANTENNA BAND STATUS STATUS VOLTAGE EQUIPMENT SIZE TO NOTIFY ATC PM OF ANY DC6-4 DISCREPANCY PRIOR TO RADIO 4471 B30 RRU -48V 8 AWG ADD A1 TPA65R-BU8DV2 LTE 700/850/2300 ADD INSTALLING THE EQUIPMENT **RRUS 4490 RRU** -58V 8 AWG ADD DC6-4 GC TO CAP ALL UNUSED PORTS AIR 6472 B77G B77M -58V 8 AWG A2 5G CBAND/DOD ADD CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER ALPHA 152' 4° RADIO 4494 44B14 20B29 M01 RRU -48V 8 AWG ADD DC6-ADD A3 TPA65R-BU8DV2 LTE 700/1900/2100 CONFLICTS NOR IMPEDE TOWER RRUS 4890 RRU -58V 8 AWG ADD CLIMBING PEGS. A4 THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT RADIO 4471 B30 RRU -48V 8 AWG ADD B1 TPA65R-BU8D LTE 700/850/2300 RMN -58V RRUS 4490 RRU 8 AWG ADD CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT B2 AIR 6472 B77G B77M 5G CBAND/DOD ADD -58V 8 AWG BETA 152' 124° LIMITED TO, ANTENNA AZIMUTHS, RADIO 4494 44B14 20B29 M01 RRU -48V 8 AWG ADD MOUNT CONFIGURATIONS AND B3 TPA65R-BU8D LTE 700/1900/2100 RMN -58V 8 AWG **RRUS 4890 RRU** ADD TOWER ORIENTATION. SCALES B4 SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS RADIO 4471 B30 RRU ADD -48V 8 AWG C1 TPA65R-BU8D I TE 700/850/2300 RMN CABLE (ARE APPROXIMATE. THE RRUS 4490 RRU -58V 8 AWG ADD CONTRACTOR SHALL VERIFY ALL C2 AIR 6472 B77G B77M 5G CBAND/DOD ADD -58V 8 AWG (2) 2" COI EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC GAMMA 152' 244° CÓAX, (6) RADIO 4494 44B14 20B29 M01 RRU -48V 8 AWG ADD C3 TPA65R-BU8D LTE 700/1900/2100 RMN OF ANY DISCREPANCIES. **RRUS 4890 RRU** -58V ADD TRUNK, (2) 8 AWG CONTRACTOR TO ENSURE AND C4 PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE

STATUS ABBREVIATIONS RMV: TO BE REMOVED RMN: TO REMAIN REL: TO BE RELOCATED ADD: TO BE ADDED

SHEET R-602)

2

EQUIPMENT SCHEDULE

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

| | AMERICAN TOWA ATC TOWER SERVICES 1 FENTON MAIN SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 2015011232 | |
|-----------------------|--|--|
| | THE USE AND PUBLICATION OF THESE SHALL BE RESTRICTED TO THE ORIGIN WHICH THEY ARE PREPARED. ANY DISCLOSURE OTHER THAN THAT WHIC TO AMERICAN TOWER OR THE SPECIFI IS STRICTLY PROHIBITED. NEITHER THE NOR THE ENGINEER WILL BE PROVIDIN CONSTRUCTION REVIEW OF THIS P CONTRACTOR(S) MUST VERIFY ALL DI AND ADVISE AMERICAN TOWER OR THI CARRIER OF ANY DISCREPANCIES. A ISSUANCE OF THIS DRAWING IS SUPEI THE LATEST VERSION. | AL SITE FOR USE OR ED CARRIER ED CARRIER ARCHITECT NG ON-SITE ROJECT. IMENSIONS E SPECIFIED NY PRIOR RSEDED BY |
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| | ATC SITE NUMBER: 306042 | |
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| | WOODS CHAPEL | - |
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| | ATC PROJ. #: 14863347_G0 | |
| | CUST. ID: WSKSL0040816 | |
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| | ANTENNA PLAN SCHEDULE | |
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| LAW. | C-402 | 0 |

PROPOSED RRUS MUST BE INSTALLED A MINIMUM OF 12' AWAY FROM ALL ANTENNAS UNLESS NOTED OTHERWISE, MOUNT FACE AZIMUTHS

MOUNT FACE AZIMUTHS MATCH ANTENNA AZIMUTHS.

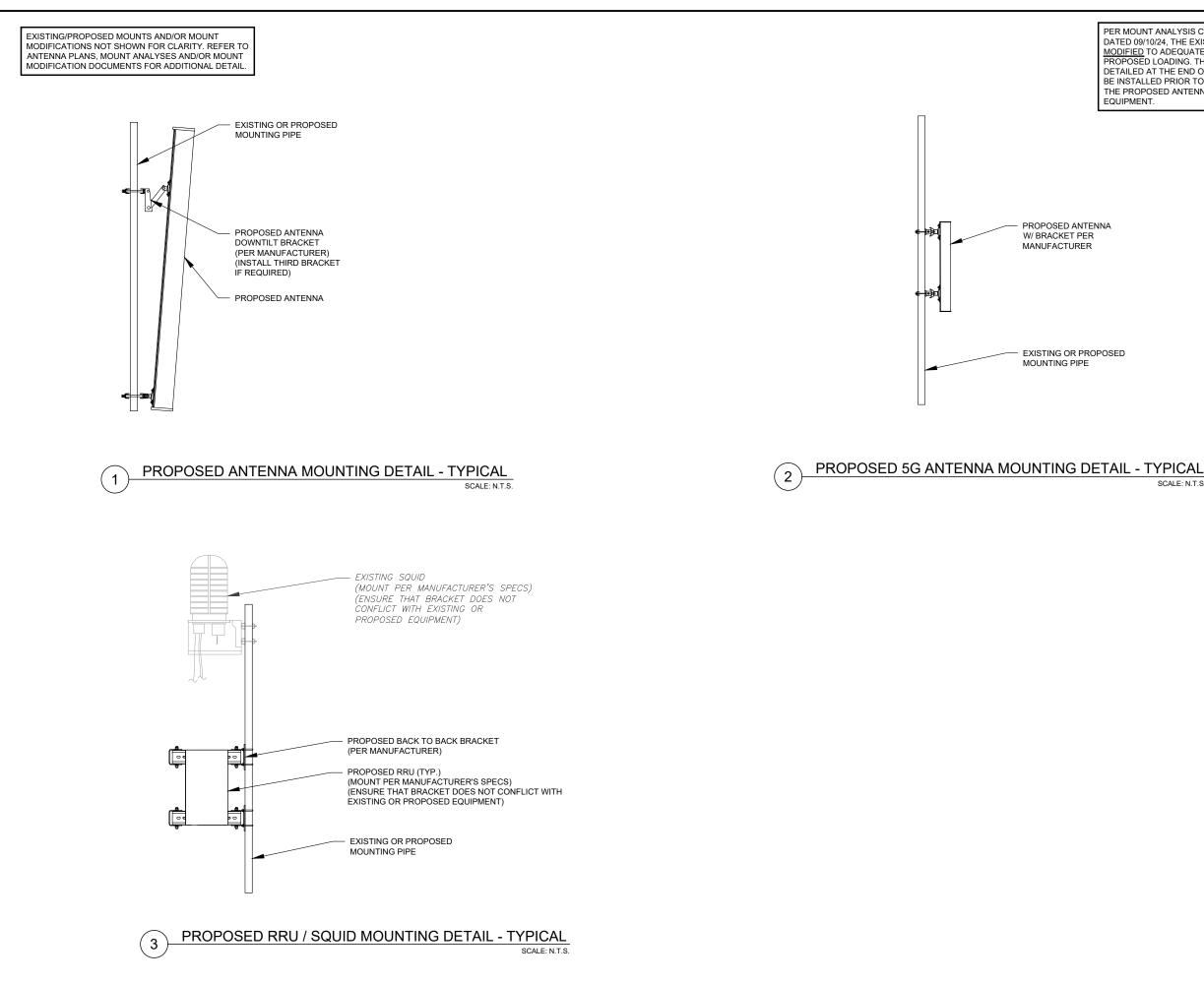
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FINAL CABLING SUMMARY

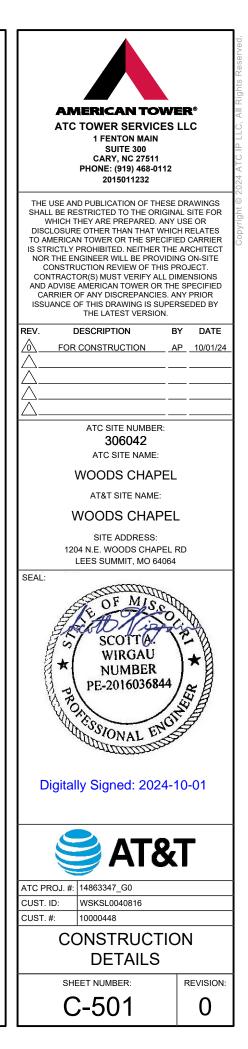
| QTY, SIZE, TYPE | STATUS |
|---|--------|
| NDUIT, (8) 1 5/8" 0.78" 8 AWG 6 DC 0.39" FIBER TRUNK, (1) 3/8" RET | RMN |
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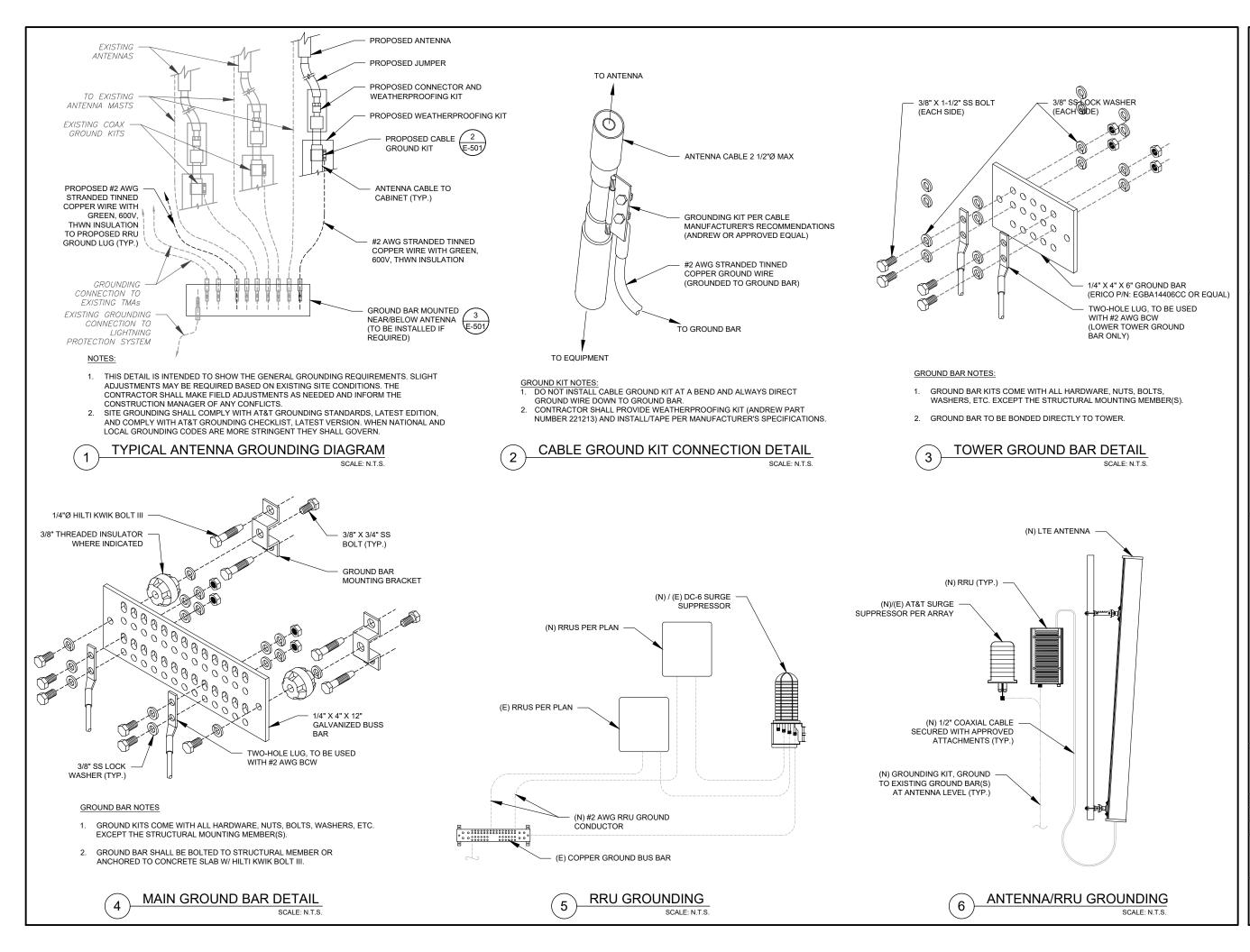
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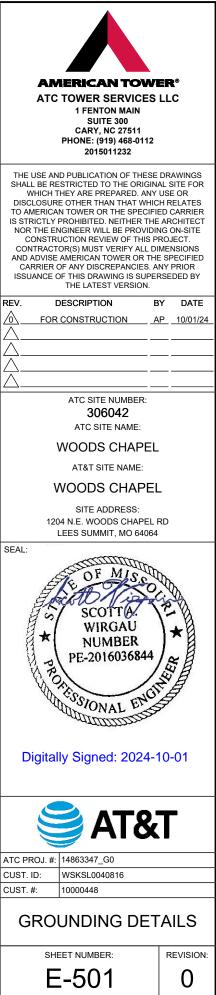


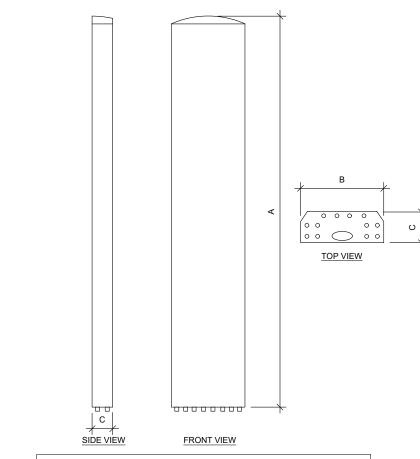
PER MOUNT ANALYSIS COMPLETED BY ATC. DATED 09/10/24, THE EXISTING MOUNT <u>MUST BE</u> <u>MODIFIED</u> TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER





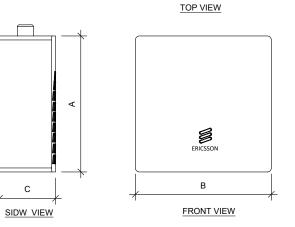






| ANTENNA SPECIFICATIONS | | | | | | | |
|------------------------|--------------------|-------|-------|------|-----------------|--|--|
| | ANTENNA MODEL | A | В | С | WEIGHT (LBS) | | |
| | TPA65R-BU8Dv2 | 96.0" | 20.7" | 7.7" | 88.0 | | |
| | AIR 6472 B77G B77M | 36.4" | 16.1" | 7.5" | 92.6 | | |

ł



| RRU SPECIFICATIONS | | | | | | |
|--------------------------------|-------|-------|------|-----------------|--|--|
| RRU MODEL | А | В | С | WEIGHT (LBS) | | |
| RADIO 4494 44B14 20B29 M01 RRU | 17.5" | 15.1" | 5.6" | 57.3 | | |
| RADIO 4471 B30 RRU | 14.2" | 10.3" | 5.1" | 28.7 | | |
| RRUS 4490 RRU | 20.6" | 15.7" | 7.0" | 68.4 | | |
| RRUS 4890 RRU | 20.6" | 15.7" | 7.2" | 69.5 | | |









Antenna Collocation Guidelines

7. Antenna Separation Guidelines (Our Own Antennas)

7.1 MIMO or 4T4R Antenna Separation (excluding 700 MHz B/C or D/E or B14-FirstNet antennas)

For MIMO (Multiple-Input Multiple-Output) the relationship between antenna correlation and performance is more complicated due to different MIMO operation modes. Depending SNR, several operation modes will be implemented in MIMO: transmit diversity-based space frequency block coding (SFBC), rank-based spatial multiplexing and beamforming. A cross-polarization antenna with single antenna array can support 2x2 MIMO or 2T2R. There are two options to support 4T4R operation: using an antenna with two antenna arrays or use two single-array antennas.

- · There are two architectures for antennas with two same band arrays:
- horizontal side-by-side arrays architecture, the antenna may be wider if it consists of two LO arrays.
- vertical stacking arrays architecture, the trade-off is the gain reduction due to limited antenna elements can be implemented.
- · When use two single-array antennas to support 4T4R operation, the horizontal spacing between two antennas can be any distance and no need to be very close to each other. The antennas can be installed at the standard positions. Several antenna vendors also offer dual-antenna bracket option, it is noted that the total weight (two antennas plus bracket) can be more than 200 lbs and possible wind load impact if the antennas are too

It is noted that 4T4R operation the same azimuth and tilting for both antennas/arrays must be maintained. Those antennas/arrays may be controlled by different actuators.

7.2 Integrated Antenna Separation

Integrated Antenna (IA) like ALU AAS or Ericsson AIR consists of radios integrated with the antenna. Adequate free space is required between Integrated Antennas installed side by side. Please refer to OEM product description or installation documents for required free space. Sufficient air flow is needed to cool the integrated radio when Integrated Antenna is installed inside an FRP (Fiber Reinforced Panel) enclosure.

7.3 700 MHz B/C (B17), 700 MHz D/E (B29) and B14-FirstNet Antennas Separation

Due to 700 MHz B/C (Band 17) and 700 MHz D/E (Band 29) are adjacent each other, LTE transmitter in 700 MHz D/E block must be isolated (via filtering and antenna separation) from adjacent 700 B/C receiver. The two main concerns are out-of-band emission (OOBE) and receiver blocking/desensitization.

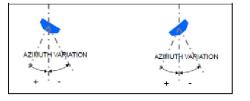
- B14 + B17 will have 3rd order IM (2A-B) in B17 RX or B14 RX.
- B14 + B29 will have 3rd order IM (2A-B) in B14 RX

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- · 700 MHz B/C (B17), 700 MHz D/E (B29) and FirstNet (B14) operation all should have their own antennas. No antenna sharing unless certain dual band or tri-band radios are used
- At least 6' horizontal separation between 700 MHz D/E (B29) and 700 MHz B/C (B17) antennas within the same sector/face.
 - About 40 dB isolation can be achieved for 65° HBW antennas.
 - More separation is required for wide HBW antennas. The horizontal separation will increase proportionally as the HBW increases, e.g., 50% more horizontal separation for 85° or 90° HBW antennas.
 - Based on measurement data, isolation between 700 B/C and D/E will not be compromised if the azimuth variation is less than ± 6° for the antennas within the same sector as shown in the following figure. Please note a maximum aiming/alignment accuracy of ± 3° is required for all panel (directional) antennas [14]



· At least 3' horizontal separation (edge to edge) between FirstNet (B14) antenna from either 700 MHz D/E (B29) or 700 MHz B/C (B17). More separation between B14 and B17 antennas is recommended such as they are not in adjacent position if possible

Considering the vertical or diagonal separation (sections 4.3.1 & 4.3.3) if possible. Good isolation can be easily achieved with more than 3' vertical antenna

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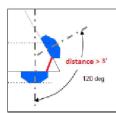
Antenna Collocation Guidelines

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separation (distances between the tips of the antennas, i.e., the distance from the tip of the bottom antenna to the bottom of the top one).

 Isolation between 700 MHz antennas in different faces may be an issue if they are close to each other in the corner as shown in the following figure. The distance between the edge of the antenna backplanes should be at least 6' if possible, 3' is minimum.



If the above recommended separation cannot be obtained, exception review is required so alternative solutions can be provided. For example,

- Tolerate additional uplink performance degradation at reduced horizontal antenna separation
- Reduce radio transmit power.
- Adjust antenna tilting or azimuth or relocate antennas.

The following figures illustrate possible antenna separation between 700 B/C and 700 D/E antennas (shown in green or gray colors). The inter-antenna distance depends upon the sector platform or antenna boom/frame size and the number of antennas positions can be mounted on. The following table lists acceptable antenna positions for typical platform with 10'-14' sector width. Antenna position shall be consistent in all faces and back-to-back separation @ corner > 3'.

| # of antenna positions per sector/face | 3 antenna positions | 4 antenna positions |
|---|---------------------|---------------------|
| 10' platform or antenna boom | (3-B) | (4-A) to (4-C) |
| 12' platform or antenna boom | (3-A) and (3-B) | (4-A) to (4-C) |
| 14' platform or antenna | (3-A) and (3-B) | (4-A) to (4-C) |





SUPPLEMENTAL

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5 antenna positions

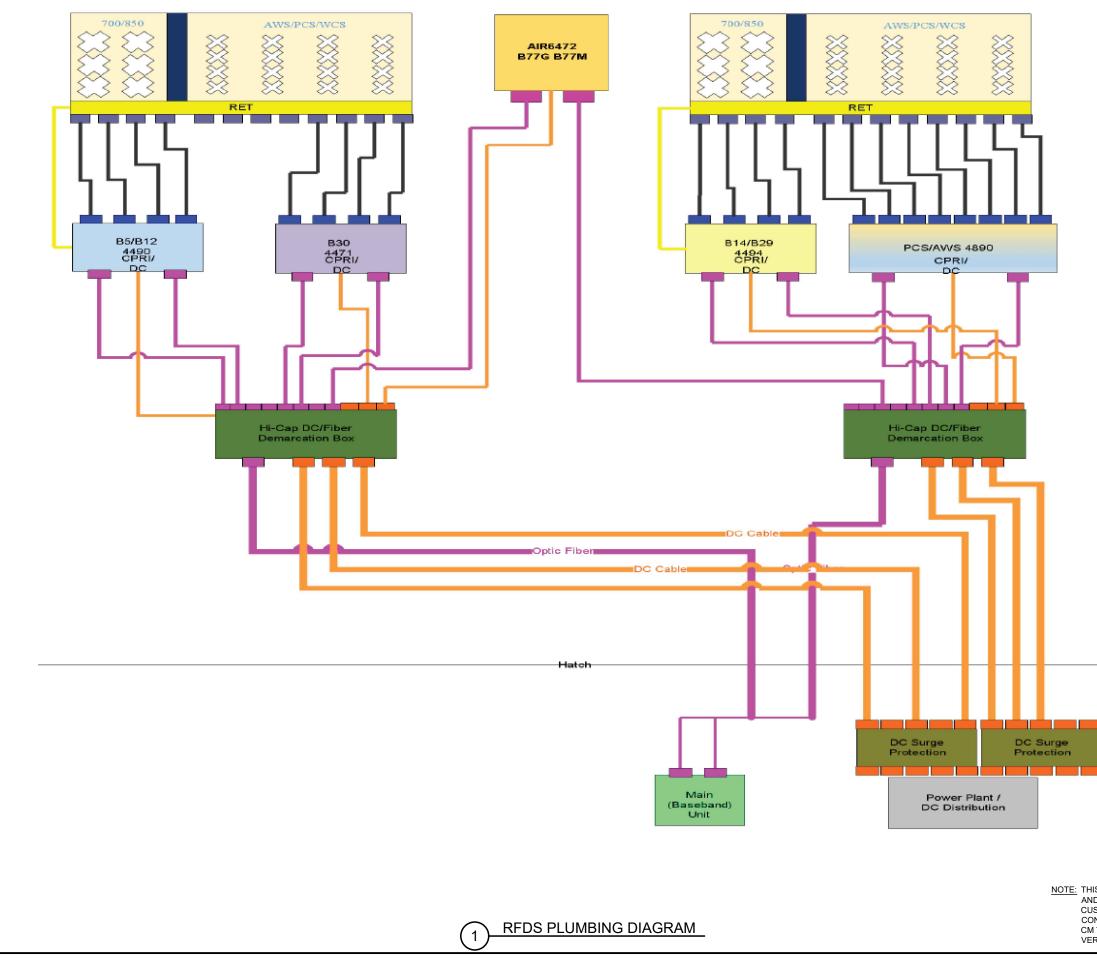
(5-B), (5-C), (5-E)

(5-A) to (5-F)

(5-A) to (5-F)



Antenna Collocation Guidelines



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CORPORATION

Post Modification Mount Analysis Report

| Mount Type | : | 12.5 ft Platform w/ Handrails | |
|-----------------------|---|--|-------------------|
| ATC Asset Name | : | Woods Chapel | |
| ATC Asset Number | : | 306042 | |
| Engineering Number | : | 14863347_C9_04 | |
| Mount Elevation | : | 150.5 ft | |
| Proposed Carrier | : | AT&T Mobility | |
| Carrier Site Name | : | WOODS CHAPEL | |
| Carrier Site Number | : | WSKSL0040816 | |
| Site Location | : | 1204 N.e. Woods Chapel Road Lees Summit, MO 64064-1989 38.9834, -94.3498 | |
| County | : | Jackson | |
| Date | : | September 5, 2024 | E AL |
| Max Usage | : | 48% | SC SC |
| Analysis Result | : | Contingent Pass | * NU PROFISSIO |
| Prepared By: | | | A Ster |
| Brittany Hucks | | | SSIO |
| Structural Engineer I | | | The Martin |
| Buttan Hucks | | | Digitally Sign |



Introduction

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

Supporting Documents

| Specifications Sheet: | Site Pro 1 RMQP, dated July 7, 2015 |
|-----------------------------|---|
| Previous Analysis: | POD Project #13618801_C8_01, dated May 22, 2021 |
| Radio Frequency Data Sheet: | RFDS ID #10000448, dated July 22, 2024 |
| Reference Photos: | Site photos from 2023 |

<u>Analysis</u>

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

| Basic Wind Speed: | 109 mph (3-Second Gust) |
|---|---|
| Basic Wind Speed w/ Ice: | 40 mph (3-Second Gust) w/ 1.50" radial ice concurrent |
| Codes: | ANSI/TIA-222-H / 2018 IBC |
| Exposure Category: | C |
| Risk Category: | Ш |
| Topographic Factor Procedure: | Method 2 |
| Feature: | Flat |
| Crest Height (H): | 0 ft |
| Crest Length (L): | 0 ft |
| Spectral Response: | Ss = 0.099, S1 = 0.068 |
| Site Class: | D - Stiff Soil - Default |
| Live Loads: | Lm = 500 lbs |
| *Live Load(s) reduction is confirmed to either no | t govern or not be annlicable |

*Live Load(s) reduction is confirmed to either not govern or not be applicable * Based on experience, it has been determined that the Lv load cases will not control over Lm load cases in platform mount analyses. The have been excluded from this analysis.

Conclusion

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

• Install modification per ATC Drawing #14863347_C9_04

If you have any questions or require additional information, please reach out to your American To 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 number in the subject line for any questions.

COA: 2006031326

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MOUNT ANALYSIS

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| Eng. Number 14863347_C9_04 September 5, 2024 Page 3 |
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| r American Tower contact. If you ontact , site number, and engineering |
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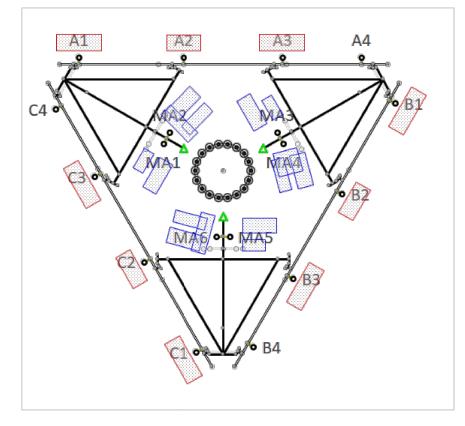
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| R-604 | |





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Mount Layout



Equipment Position Table

| МР | RAD Center (ft) | Qty. | Antenna Model | Max Width (in) | Left (in) | Right (in) |
|----|--------------------|-------------|---|----------------------|----------------|---------------|
| A1 | 152.0 | 1 | CCI TPA65R-BU8Dv2 | 20.7 | 51.27 | 29.6 |
| A2 | 152.0 | 1 | Ericsson AIR 6472 B77G B77M (92.6lbs) | 16.1 | 29.6 | 26.6 |
| A3 | 152.0 | 1 | CCI TPA65R-BU8Dv2 | 20.7 | 26.6 | 26.6 |
| A4 | - | - | Empty | - | 26.6 | 92.29 |
| B1 | 152.0 | 1 | CCI TPA65R-BU8D | 21 | 92.29 | 29.45 |
| B2 | 152.0 | 1 | Ericsson AIR 6472 B77G B77M (92.6lbs) | 16.1 | 29.45 | 26.45 |
| B3 | 152.0 | 1 | CCI TPA65R-BU8D | 21 | 26.45 | 51.29 |
| B4 | - | - | Empty | - | - | - |
| C1 | 152.0 | 1 | CCI TPA65R-BU8D | 21 | 51.29 | 29.45 |
| C2 | 152.0 | 1 | Ericsson AIR 6472 B77G B77M (92.6lbs) | 16.1 | 29.45 | 26.45 |
| | ATC To | wer Service | s - 1 Fenton Main, Suite 300 - Cary, NC 27511 - 919.468.0112 Office - 919.466.541 | 4 Fax - www.ame | ricantower.com | |

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Equipment Position Table Cont.

| МР | RAD Center (ft) | Qty. | Antenna Model | Max Width (in) | Left (in) | Right (in) |
|-------|--------------------|------|-------------------------------------|----------------------|-----------|---------------|
| C3 | 152.0 | 1 | CCI TPA65R-BU8D | 21 | 26.45 | 51.27 |
| C4 | - | - | Empty | - | - | - |
| MA1 | 152.0 | 1 | Ericsson Radio 4471 B30 | | | |
| IVIAL | 152.0 | 1 | Ericsson RRUS 4490 | | | - |
| | 152.0 | 1 | Ericsson Radio 4494 44B14 20B29 M01 | | | |
| MA2 | 152.0 | 1 | Ericsson RRUS 4890 | - | | - |
| | 151.0 | 1 | Raycap DC6-48-60-0-8C | | | |
| MAD | 152.0 | 1 | Ericsson Radio 4471 B30 | | | |
| MA3 | 152.0 | 1 | Ericsson RRUS 4490 | - | - | - |
| | 152.0 | 1 | Ericsson Radio 4494 44B14 20B29 M01 | | | |
| MA4 | 152.0 | 1 | Ericsson RRUS 4890 |] - | | - |
| | 151.0 | 1 | Raycap DC6-48-60-18-8F(32.8 lbs) | | | |
| | 152.0 | 1 | Ericsson Radio 4471 B30 | | | |
| MA5 | 152.0 | 1 | Ericsson RRUS 4490 | - | | - |
| | 152.0 | 1 | Ericsson Radio 4494 44B14 20B29 M01 | | | |
| MA6 | 152.0 | 1 | Ericsson RRUS 4890 | - | | - |
| | 150.0 | 1 | Raycap DC6-48-60-18-8C | | | |

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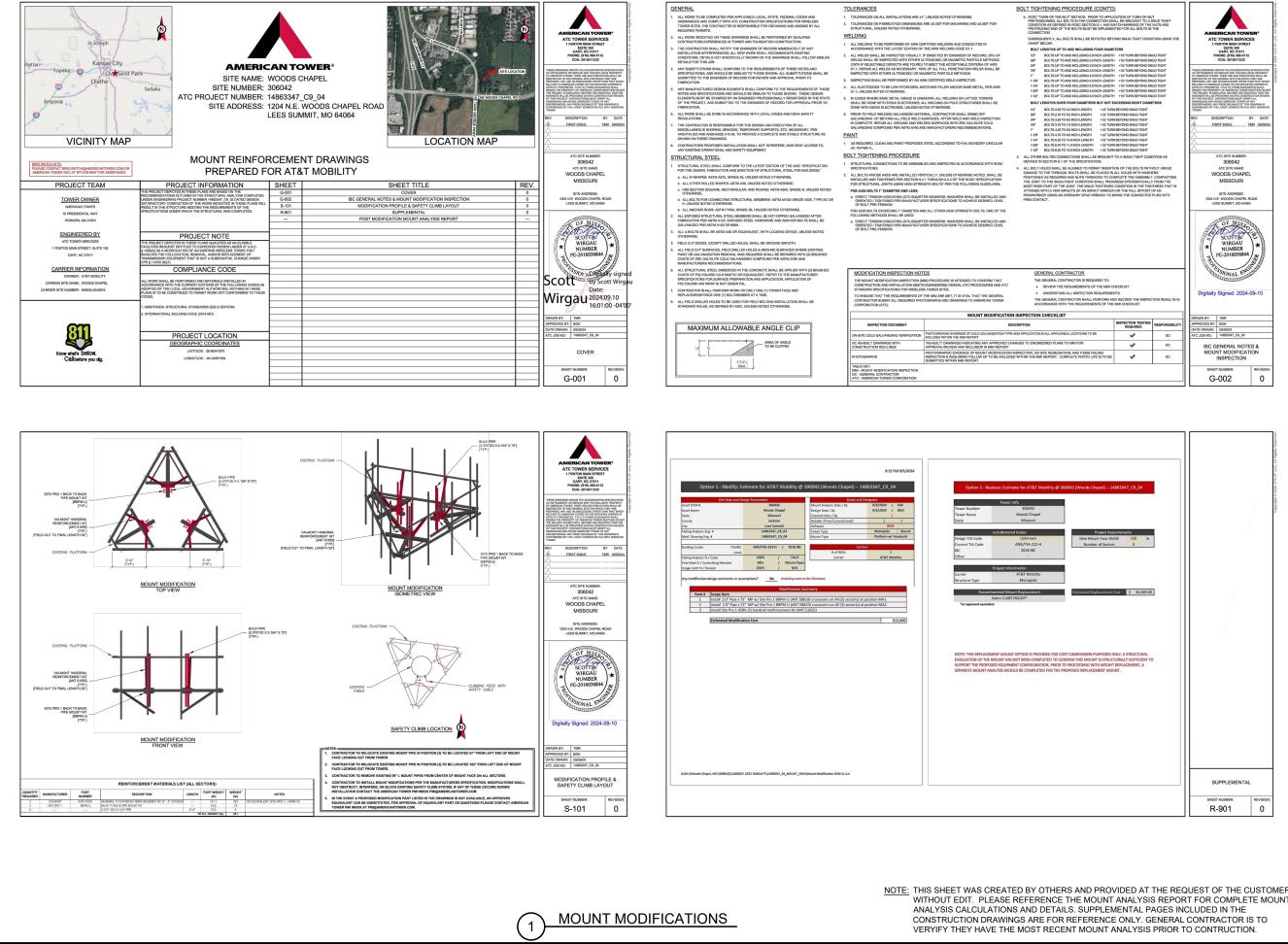
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