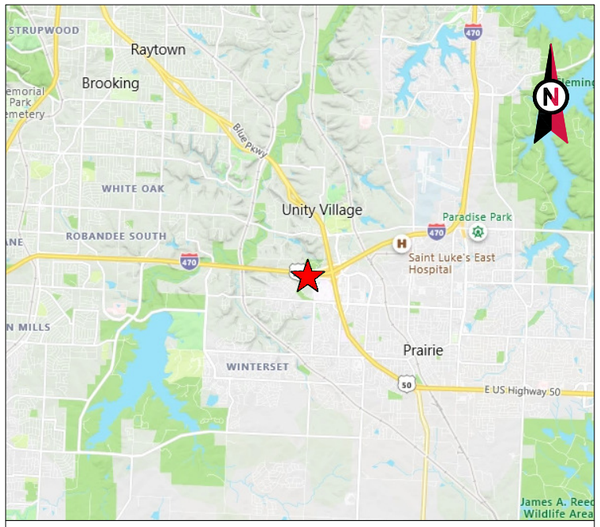


VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: UNITY VILLAGE MO 2
ATC SITE NUMBER: 306035
AT&T PACE NUMBER: MRKSL045230, MRKSL045284
MRKSL045778, MRKSL045231, MRKSL045484
AT&T SITE ID: KS4022
AT&T FA CODE: 10000434
AT&T SITE NAME: UNITY VILLAGE
SITE ADDRESS: 2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

AT&T MOBILITY
ANTENNA AMENDMENT DRAWINGS

LOCATION MAP

COMPLIANCE CODE

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

1. INTERNATIONAL BUILDING CODE (IBC)
2. NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY:KCP&L
PHONE: TBD
TELEPHONE COMPANY: AT&T
PHONE: TBD

811
Know what's **below.**
Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

2150 NORTHWEST LOWENSTEIN DRIVE

LEES SUMMIT, MO 64081

COUNTY: JACKSON

GEOGRAPHIC COORDINATES:

LATITUDE: 38.9336100

LONGITUDE: -94.4169400

GROUND ELEVATION: 983' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

AT&T MOBILITY

ARCHITECT (COORDINATING PROFESSIONAL:

PETER LICHOMSKI, AIA
49030 PONTIAC TRAIL, SUITE 400,
WIXOM, MI 48393
PH: (248) 705-9212

PROPERTY OWNER:

AMERICAN TOWER CORPORATION
116 HUNTIGTON AVENUE,
11TH FLOOR BOSTON, MA 02116

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

TOWER WORK:
REMOVE (3) ANTENNAS AND (6) RRHS

INSTALL (3) ANTENNAS AND (3) RRHS

EXISTING (9) ANTENNAS, (3) TMAS, (12) RRHS, (3) SQUID, (6) #8 AWG DC CABLES, (2) 18 PAIR FIBER TRUNK, (1) 3/8" RET CONTROL CABLE, AND (12) 1-5/8" COAX CABLES TO REMAIN

GROUND WORK:
EXISTING (1) EXISTING FSM4 ASIA C1 AND 5GNR ASIK C2 TO REMAIN

INSTALL (1) AMIA, (4) ABIA, (2) ASIA, (1) ABIL, (1) ASIK AND (1) POWER CONVERTER

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.

PROJECT LOCATION DIRECTIONS

DIRECTIONS FROM CHARLES B WHEELER DOWNTOWN AIRPORT, DEPART AND HEAD TOWARD NW LOU HOLLAND DR, TURN LEFT ONTO NW LOU HOLLAND DR, ROAD NAME CHANGES TO N RICHARDS RD, AT THE ROUNDABOUT, TAKE THE 1ST EXIT FOR RAMP, MERGE ONTO US-169 S / N BROADWAY FWY S, KEEP STRAIGHT TO GET ONTO BROADWAY BLVD, TURN LEFT ONTO W 6TH ST, TAKE THE RAMP ON THE LEFT AND FOLLOW SIGNS FOR I-35 NORTH / I-70 EAST / US-24 EAST / US-40 EAST, TAKE THE RAMP ON THE RIGHT FOR US-71 SOUTH / I-70 EAST / US-40 EAST AND HEAD TOWARD JOPLIN / ST LOUIS, KEEP STRAIGHT TO GET ONTO US-71 S, TAKE THE RAMP ON THE RIGHT FOR I-470 EAST / US-50 EAST / I-435 WEST / US-50 WEST AND HEAD TOWARD LEE'S SUMMIT / WICHITA, AT EXIT 7A, HEAD RIGHT ON THE RAMP FOR US-50 EAST TOWARD SEDALIA, TURN RIGHT ONTO NW PRYOR RD, TURN RIGHT ONTO NW LOWENSTEIN DR, TURN RIGHT, ARRIVE AT 2150 NORTHWEST LOWENSTEIN DRIVE, LEES SUMMIT, MO 64081

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	COVER SHEET	0	06/24/2021	RC
G-002	GENERAL NOTES	0	06/24/2021	RC
C-001	OVERALL SITE PLAN	0	06/24/2021	RC
C-101	DETAILED SITE PLAN	0	06/24/2021	RC
C-102	SHELTER LAYOUT	0	06/24/2021	RC
C-201	TOWER ELEVATION	0	06/24/2021	RC
C-401	RF SCHEDULE AND ANTENNA INSTALLATION	0	06/24/2021	RC
C-501	CONSTRUCTION DETAILS	0	06/24/2021	RC
E-501	GROUNDING DETAILS	0	06/24/2021	RC
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			
R-606	SUPPLEMENTAL			
R-607	SUPPLEMENTAL			

AMERICAN TOWER®

LAB
49030 Pontiac Trail, Suite 400
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	05/25/21
0	FINAL CD	RC	06/24/21

ATC SITE NUMBER:
306035
ATC SITE NAME:
UNITY VILLAGE
MO 2
SITE ADDRESS:
2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

SEAL:

AT&T

DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

COVER SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, AT&T MOBILITY "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)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - 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 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 MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. 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.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, 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 AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY 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 AT&T MOBILITY CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD IMMEDIATELY.
17. 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 EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY 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.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. 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 MOBILITY 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. 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.
29. 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.
30. 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 AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. 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.
32. AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY 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.
33. AT&T MOBILITY 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 AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
   - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
   - E. 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.
   - F. 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:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL 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.

AMERICAN TOWER®

LAB
49030 Pontiac Trail, Suite 400
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	05/25/21
0	FINAL CD	RC	06/24/21

ATC SITE NUMBER:
306035
ATC SITE NAME:
UNITY VILLAGE
MO 2
SITE ADDRESS:
2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

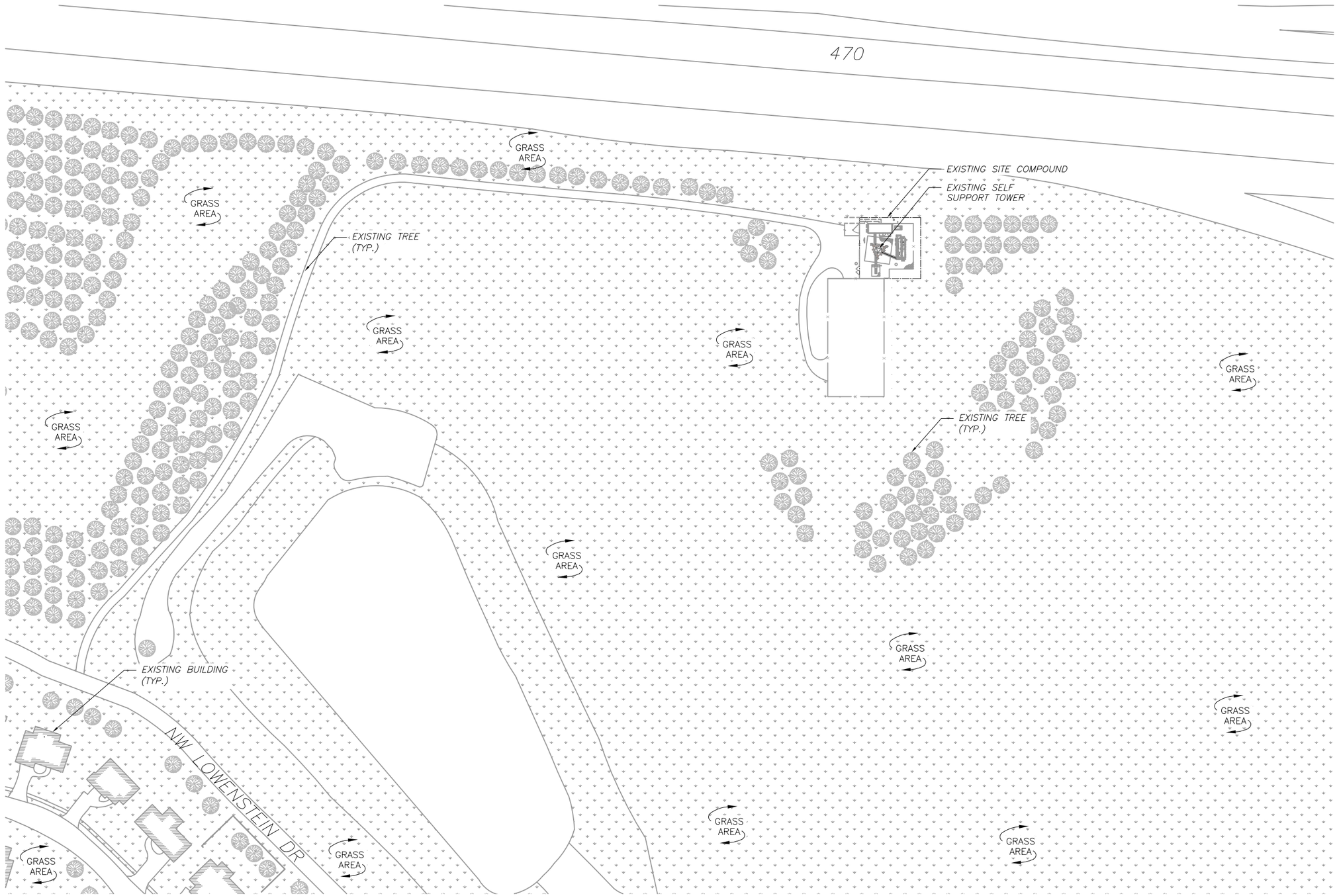
SEAL:

AT&T

DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0



1 OVERALL SITE PLAN

0 120' 240'

SCALE: 1"=120' (11X17)
1"=60' (22X34)

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306035

ATC SITE NAME:
UNITY VILLAGE
MO 2

SITE ADDRESS:
2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

SEAL:

STATE OF MISSOURI
PETER P. LICHOMSKI
NUMBER A-2015003113
ARCHITECT

AT&T

DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

OVERALL SITE PLAN

SHEET NUMBER:	REVISION:
C-001	0

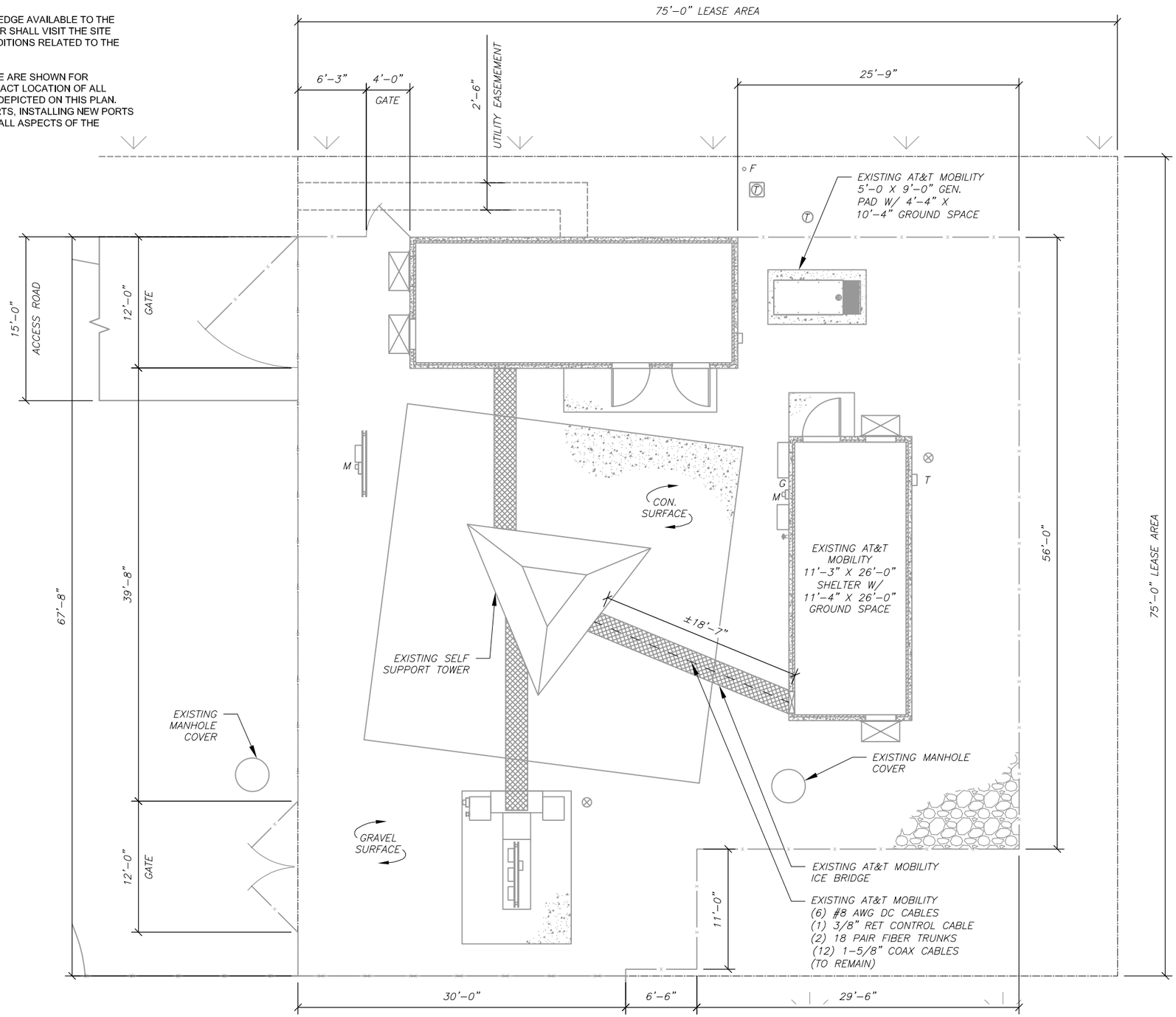
SITE PLAN NOTES:

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.

2. 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.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
—x—	CHAINLINK FENCE



1 DETAILED SITE PLAN

0 10' 20'

SCALE: 1"=10' (11X17)
1"=5' (22X34)

PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **243'**. 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.
2. 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).

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ATC SITE NUMBER:
306035

ATC SITE NAME:
UNITY VILLAGE
MO 2

SITE ADDRESS:
2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

SEAL:

STATE OF MISSOURI
PETER P. LICHOMSKI
NUMBER A-2015003113
ARCHITECT

AT&T

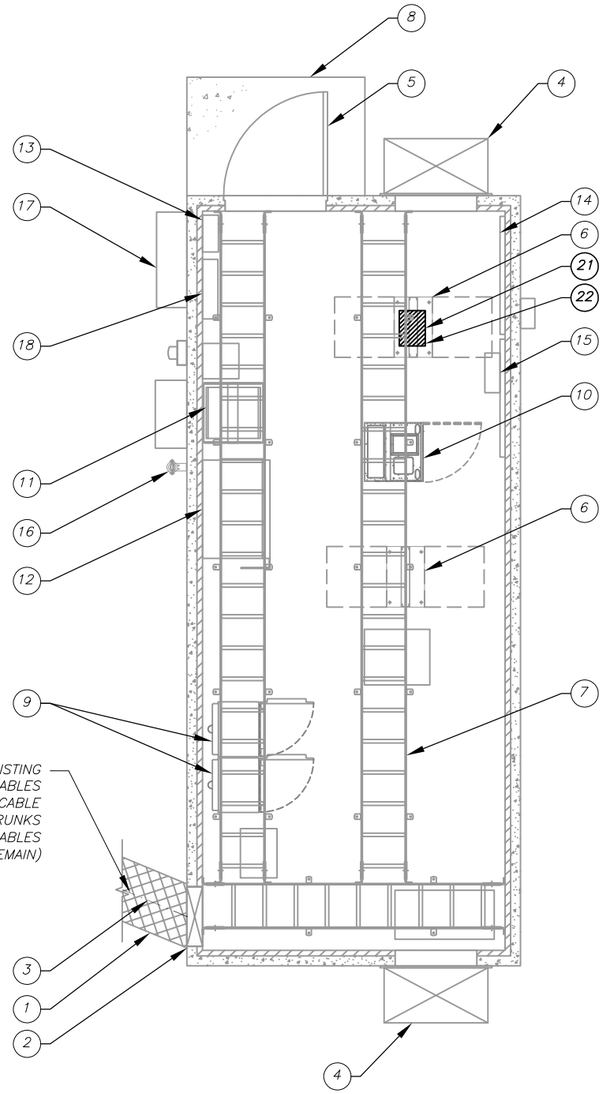
DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

EXISTING EQUIPMENT

1. *EXISTING ICE BRIDGE*
2. *EXISTING COAX PORT*
3. *EXISTING COAX TRUNK CABLE*
4. *EXISTING HVAC*
5. *EXISTING DOOR*
6. *EXISTING FIF RACK*
7. *EXISTING ELEVATED CABLE TRAY (TYP.)*
8. *EXISTING STOOP*
9. *EXISTING GSM CABINET*
10. *EXISTING UMTS CABINET*
11. *EXISTING DC POWER PLANT*
12. *EXISTING BATTERIES*
13. *EXISTING AC PANEL*
14. *EXISTING TELCO BOARD*
15. *EXISTING FIBER BOX*
16. *EXISTING GPS ANTENNA*
17. *EXISTING DISCONNECT SWITCH*
18. *EXISTING MANUAL TRANSFER SWITCH*
19. *EXISTING METER*
20. *EXISTING FSM4 ASIA C1 AND 5GNR ASIK C2*
21. (1) AMIA, (4) ABIA, (2) ASIA, (1) ABIL AND (1) ASIK
22. NEW POWER CONVERTER



1 DETAILED EQUIPMENT LAYOUT

0 5' 10'

SCALE: 1"=5' (11X17)
1"=2.5' (22X34)

N

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LEES SUMMIT, MO 64081

SEAL:

STATE OF MISSOURI
PETER P. LICHOMSKI
NUMBER A-2015003113
ARCHITECT

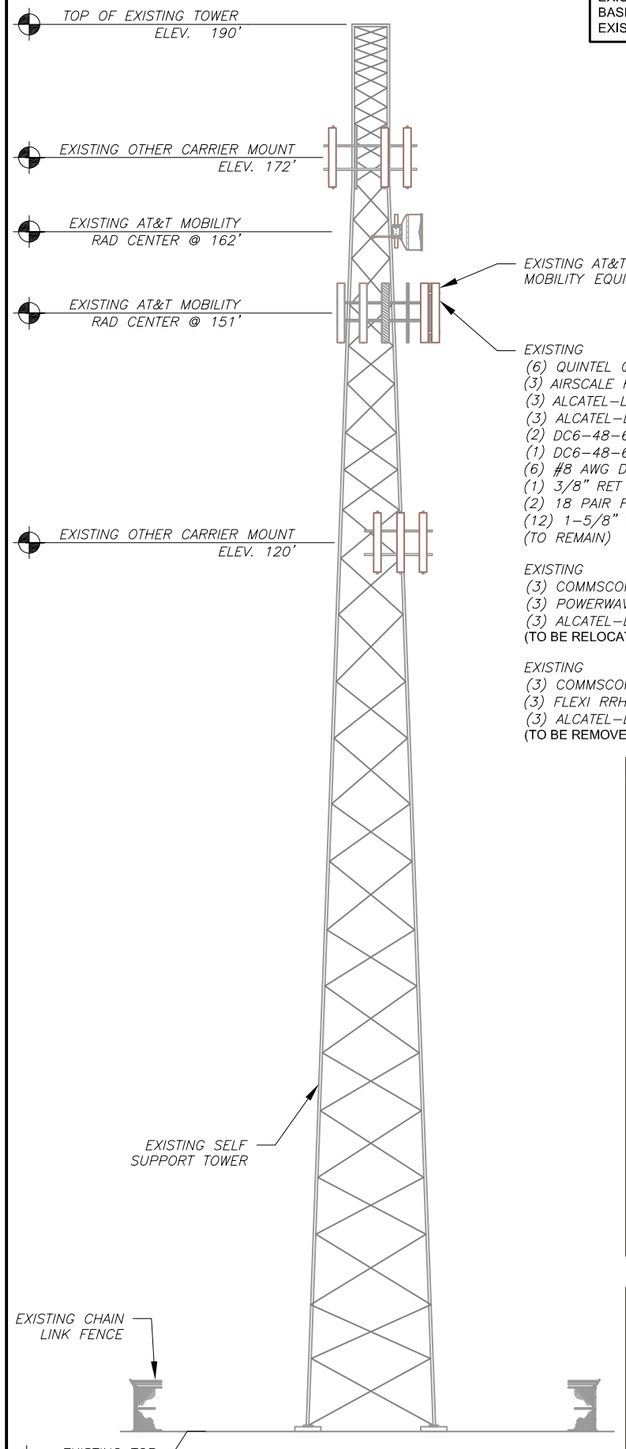
AT&T

DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

SHELTER LAYOUT

SHEET NUMBER:	REVISION:
C-102	0

EXISTING AND FINAL CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



EXISTING AT&T MOBILITY EQUIPMENT (1 / C-401)

EXISTING
(6) QUINTEL QS86512-2 ANTENNA
(3) AIRSCALE RRH 4T4R B5 160W AHCA RRU
(3) ALCATEL-LUCENT B66A RRH4X45-4R RRU
(3) ALCATEL-LUCENT RRH4X25-WCS-4R RRU
(2) DC6-48-60-18-8F SQUID
(1) DC6-48-60-08F SQUID
(6) #8 AWG DC CABLES
(1) 3/8" RET CONTROL CABLE
(2) 18 PAIR FIBER TRUNK
(12) 1-5/8" COAX CABLES
(TO REMAIN)

EXISTING
(3) COMMSCOPE (ANDREW) SBNHH-1D65C ANTENNA
(3) POWERWAVE ALLGON TT08-19DB111-001 TMA'S
(3) ALCATEL-LUCENT B25 RRH4X30-4R RRU
(TO BE RELOCATED)

EXISTING
(3) COMMSCOPE (ANDREW) SBNH-1D6565C ANTENNA
(3) FLEXI RRH 4T4R B14 160W FRBI RRU
(3) ALCATEL-LUCENT RRH2x40W_7L RRU
(TO BE REMOVED)

SPECIAL NOTES:

1. GC TO VERIFY ALL HEIGHTS AND AZIMUTHS IN FIELD PRIOR TO CONSTRUCTION. GC SHALL NOTIFY P.M. AND ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
2. STRUCTURAL/ DESIGN & ANALYSIS SHALL BE PERFORMED & APPROVED BY TOWER OWNER AND MANUFACTURER (STRUCTURAL ANALYSIS BY OTHERS)
3. STRUCTURAL ANALYSIS PERFORMED BY OTHERS. CONTRACTOR TO THOROUGHLY REVIEW THE TOWER STRUCTURAL ANALYSIS FOR INFORMATION PERTAINING TO TOWER UPGRADES, MOUNTING TYPES, ANTENNA HEIGHTS, AND CABLE ROUTING, ANY OTHER DISCREPANCIES BETWEEN THE DRAWINGS, STRUCTURAL ANALYSIS, AND TOWER PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING AND INSTALLATION.

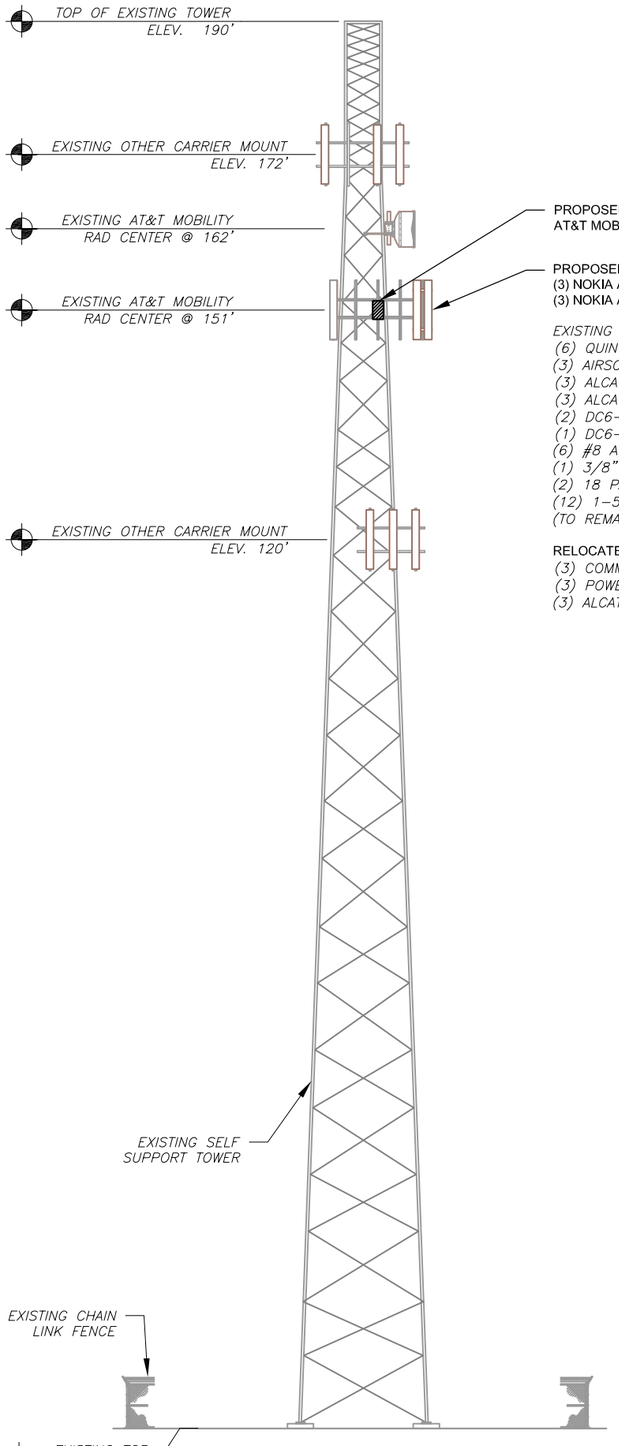
NOTES:
THIS DRAWING IS FOR EXHIBIT AND LAYOUT PURPOSES ONLY.

PLEASE REFER TO STRUCTURAL DOCUMENTS (PREPARED BY OTHERS) FOR PROJECT STRUCTURAL CALCULATION AND RESULTS.

NO WORK IS TO BE DONE WITHOUT AN APPROVED STRUCTURAL ANALYSIS PROVIDED BY OTHERS.

1 EXISTING TOWER ELEVATION
SCALE: 1" =20'-0"

PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 05/20/2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



PROPOSED & *EXISTING* AT&T MOBILITY EQUIPMENT (2 / C-401)

PROPOSED
(3) NOKIA AEQK ANTENNA
(3) NOKIA AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA

EXISTING
(6) QUINTEL QS86512-2 ANTENNA
(3) AIRSCALE RRH 4T4R B5 160W AHCA RRU
(3) ALCATEL-LUCENT B66A RRH4X45-4R RRU
(3) ALCATEL-LUCENT RRH4X25-WCS-4R RRU
(2) DC6-48-60-18-8F SQUID
(1) DC6-48-60-08F SQUID
(6) #8 AWG DC CABLES
(1) 3/8" RET CONTROL CABLE
(2) 18 PAIR FIBER TRUNK
(12) 1-5/8" COAX CABLES
(TO REMAIN)

RELOCATED *EXISTING*
(3) COMMSCOPE (ANDREW) SBNHH-1D65C ANTENNA
(3) POWERWAVE ALLGON TT08-19DB111-001 TMA'S
(3) ALCATEL-LUCENT B25 RRH4X30-4R RRU

TOWER NOTE:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION 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.
2. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

COAXIAL CABLE NOTES:
1. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERISON.
2. CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH JUMPERS W/BOOTS. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCODRANCE WITH AT&T STANDARDS.
3. CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
4. CONRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.

2 FINAL TOWER ELEVATION
SCALE: 1" = 20'-0"

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	05/25/21
0	FINAL CD	RC	06/24/21

ATC SITE NUMBER:
306035

ATC SITE NAME:
UNITY VILLAGE
MO 2

SITE ADDRESS:
2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

SEAL:

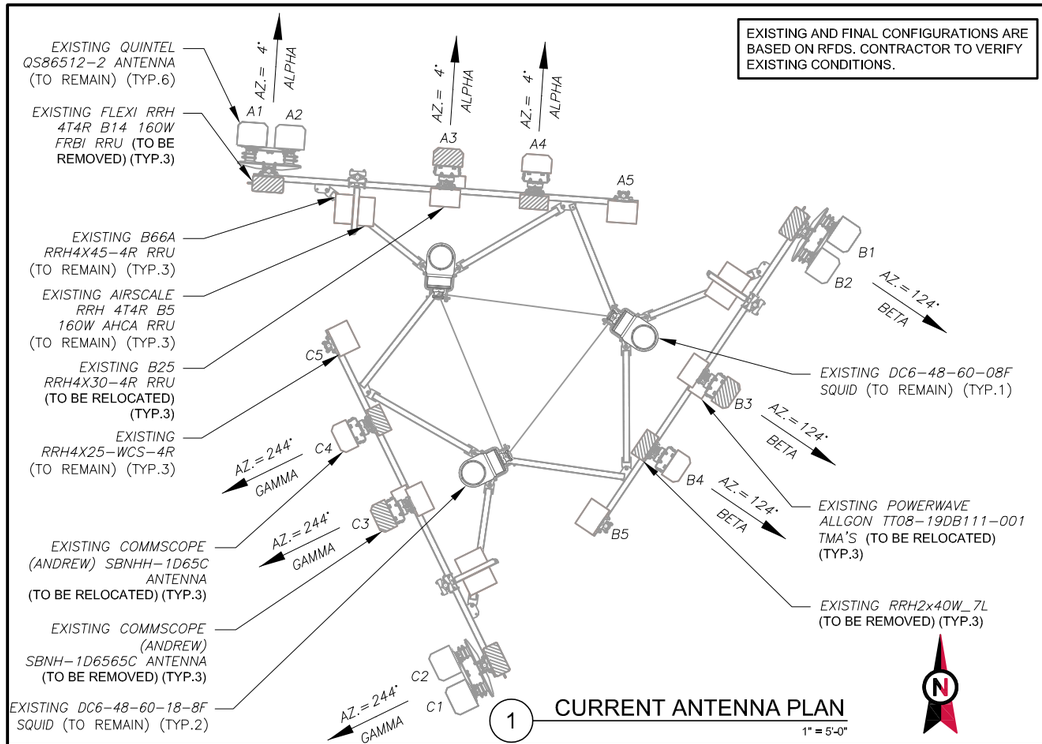
STATE OF MISSOURI
PETER P. LICHOMSKI
NUMBER A-2015003113
ARCHITECT

AT&T

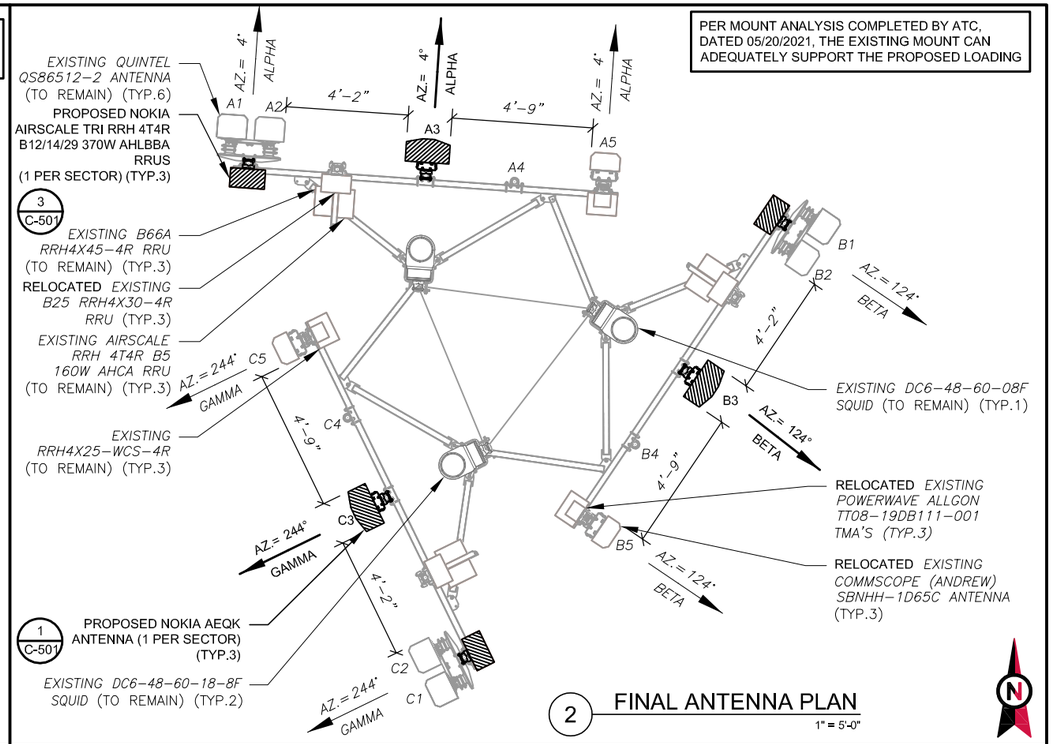
DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0



1 CURRENT ANTENNA PLAN
1" = 5'-0"



2 FINAL ANTENNA PLAN
1" = 5'-0"

CURRENT ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	151'	4°	A1	QUINTEL QS86512-2	LTE 700/LTE 850/5G 850/LTE AWS	RMN	FLEXI RRH 4T4R B14 160W FRBI	RMV
							AIRSCALE RRH 4T4R B5 160W AHCA	RMN
							B66A RRH4X45-4R	RMN
			A2	QUINTEL QS86512-2	LTE PCS	RMN	–	–
			A3	COMMSCOPE (ANDREW) SBNH-1D6565C	UMTS 850	RMV	TT08-19DB111-001_1900 TMA	REL
							B25 RRH4X30-4R	REL
			A4	COMMSCOPE (ANDREW) SBNHH-1D65C	LTE 700/LTE WCS	REL	RRH2X40W_7L	RMV
							RRH4X25-WCS-4R	RMN
			A5	–	–	–	–	–
BETA	151'	124°	B1	QUINTEL QS86512-2	LTE 700/LTE 850/5G 850/LTE AWS	RMN	FLEXI RRH 4T4R B14 160W FRBI	RMV
							AIRSCALE RRH 4T4R B5 160W AHCA	RMN
							B66A RRH4X45-4R	RMN
			B2	QUINTEL QS86512-2	LTE PCS	RMN	–	–
			B3	COMMSCOPE (ANDREW) SBNH-1D6565C	UMTS 850	RMV	TT08-19DB111-001_1900 TMA	REL
							B25 RRH4X30-4R	REL
			B4	COMMSCOPE (ANDREW) SBNHH-1D65C	LTE 700/LTE WCS	REL	RRH2X40W_7L	RMV
							RRH4X25-WCS-4R	RMN
			B5	–	–	–	–	–
GAMMA	151'	244°	C1	QUINTEL QS86512-2	LTE 700/LTE 850/5G 850/LTE AWS	RMN	FLEXI RRH 4T4R B14 160W FRBI	RMV
							AIRSCALE RRH 4T4R B5 160W AHCA	RMN
							B66A RRH4X45-4R	RMN
			C2	QUINTEL QS86512-2	LTE PCS	RMN	–	–
			C3	COMMSCOPE (ANDREW) SBNH-1D6565C	UMTS 850	RMV	TT08-19DB111-001_1900 TMA	REL
							B25 RRH4X30-4R	REL
			C4	COMMSCOPE (ANDREW) SBNHH-1D65C	LTE 700/LTE WCS	REL	RRH2X40W_7L	RMV
							RRH4X25-WCS-4R	RMN
			C5	–	–	–	–	–

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	(12) 1-5/8"	(6) #8 AWG DC CABLES	(1) 3/8" RET CONTROL CABLE,	RMN
DC6-48-60-08F	RMN	–	–	(2) 18 PAIR FIBER TRUNKS	RMN

NOTES

1. BASED ON APPROVED ATC APPLICATION 306035, DATED N/A. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIG OR MOUNT CONFIG. CONTRACTOR TO VERIFY MOUNT CONFIG HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (EQUIP) (I.E. CLEARANCES, MOUNT PIPE, SUFFICIENT LENGTH, ETC.)
3. ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
4. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
5. POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
DSC: TO BE DISCONNECTED & REMAIN
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

FIBER DISTRIBUTION/SQUID TO RRU: 15'
RRU TO ANTENNA: 10'

3 EQUIPMENT SCHEDULES

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	151'	4°	A1	QUINTEL QS86512-2	LTE 700/LTE 850/5G 850/LTE AWS	RMN	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA	ADD
							AIRSCALE RRH 4T4R B5 160W AHCA	RMN
							B66A RRH4X45-4R	RMN
			A2	QUINTEL QS86512-2	UMTS PCS	RMN	B25 RRH4X30-4R	REL
			A3	NOKIA AEQK	5G CBAND	ADD	-	-
			A4	-	-	-	-	-
			A5	COMMSCOPE (ANDREW) SBNHH-1D65C	UMTS 850/ LTE WCS	REL	TT08-19DB111-001_1900 TMA	REL
							RRH4X25-WCS-4R	RMN
BETA	151'	124°	B1	QUINTEL QS86512-2	LTE 700/LTE 850/5G 850/LTE AWS	RMN	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA	ADD
							AIRSCALE RRH 4T4R B5 160W AHCA	RMN
							B66A RRH4X45-4R	RMN
			B2	QUINTEL QS86512-2	UMTS PCS	RMN	B25 RRH4X30-4R	REL
			B3	NOKIA AEQK	5G CBAND	ADD	-	-
			B4	-	-	-	-	-
			B5	COMMSCOPE (ANDREW) SBNHH-1D65C	UMTS 850/ LTE WCS	REL	TT08-19DB111-001_1900 TMA	REL
							RRH4X25-WCS-4R	RMN
GAMMA	151'	244°	C1	QUINTEL QS86512-2	LTE 700/LTE 850/5G 850/LTE AWS	RMN	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA	ADD
							AIRSCALE RRH 4T4R B5 160W AHCA	RMN
							B66A RRH4X45-4R	RMN
			C2	QUINTEL QS86512-2	UMTS PCS	RMN	B25 RRH4X30-4R	REL
			C3	NOKIA AEQK	5G CBAND	ADD	-	-
			C4	-	-	-	-	-
			C5	COMMSCOPE (ANDREW) SBNHH-1D65C	UMTS 850/ LTE WCS	REL	TT08-19DB111-001_1900 TMA	REL
							RRH4X25-WCS-4R	RMN

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-8F	RMN	(12) 1-5/8"	(6) #8 AWG DC CABLES	(1) 3/8" RET CONTROL CABLE,	RMN
DC6-48-60-08F	RMN	–	–	(2) 18 PAIR FIBER TRUNKS	RMN

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	05/25/21
0	FINAL CD	RC	06/24/21

ATC SITE NUMBER:
306035
ATC SITE NAME:
UNITY VILLAGE
MO 2
SITE ADDRESS:
2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

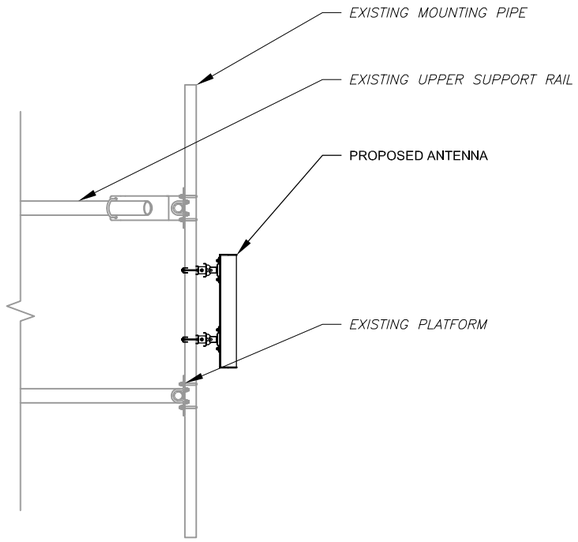
SEAL:

AT&T

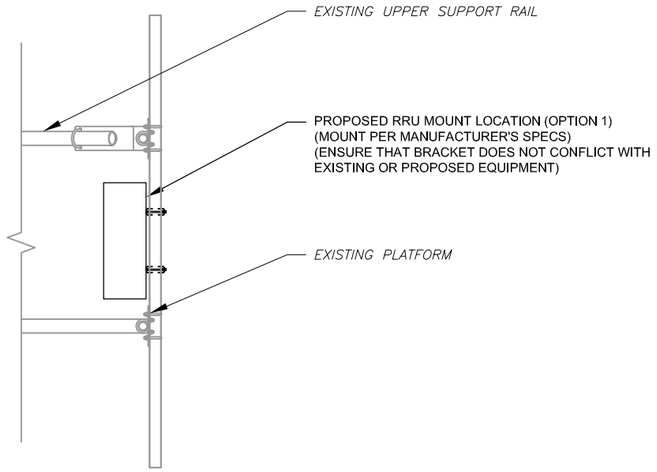
DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:	REVISION:
C-401	0



1 TYPICAL ANTENNA DETAIL
-FOR REFERENCE ONLY
SCALE: N.T.S.



2 TYPICAL RRU DETAIL
-FOR REFERENCE ONLY
SCALE: N.T.S.

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	05/25/21
0	FINAL CD	RC	06/24/21

ATC SITE NUMBER:
306035

ATC SITE NAME:
UNITY VILLAGE
MO 2

SITE ADDRESS:
2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

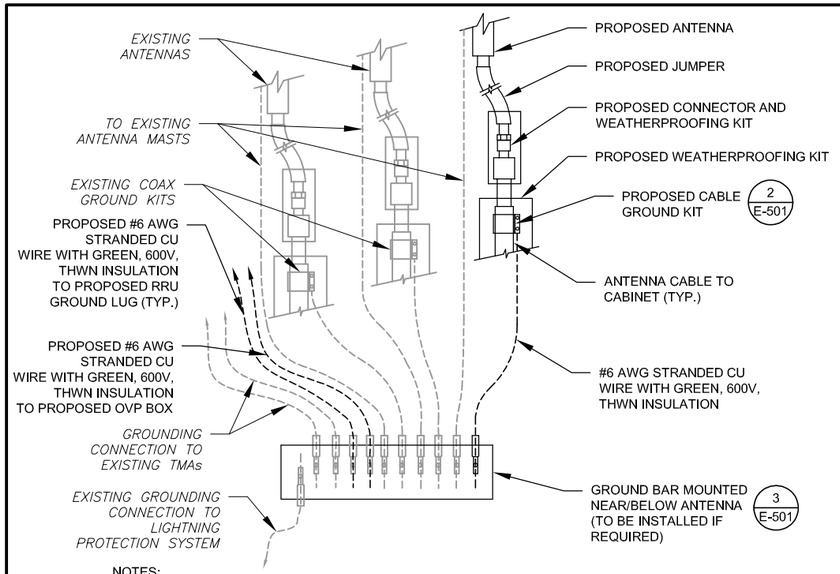
SEAL:

AT&T

DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

CONSTRUCTION
DETAILS

SHEET NUMBER:	REVISION:
C-501	0

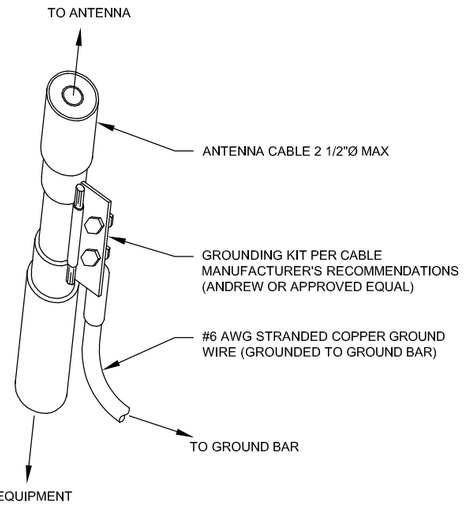


NOTES:

1. 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.
2. SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T MOBILITY GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

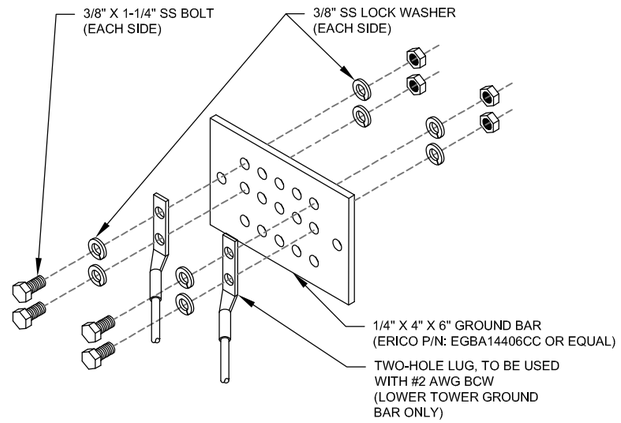


GROUND KIT NOTES:

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.

2 TYP. CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.

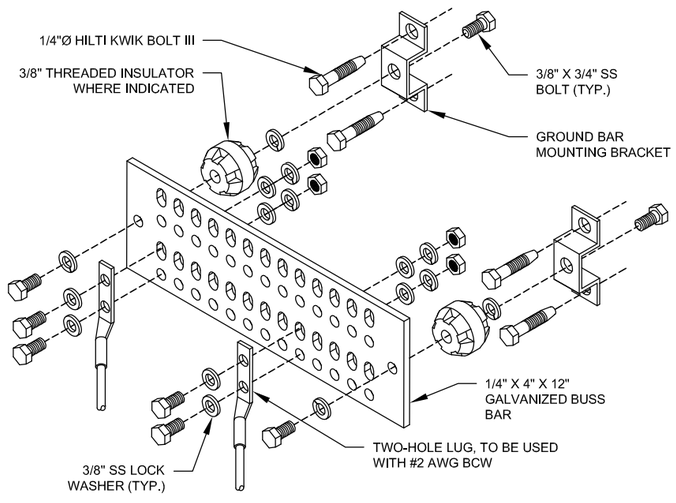


GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TYP. TOWER GROUND BAR DETAIL

SCALE: N.T.S.

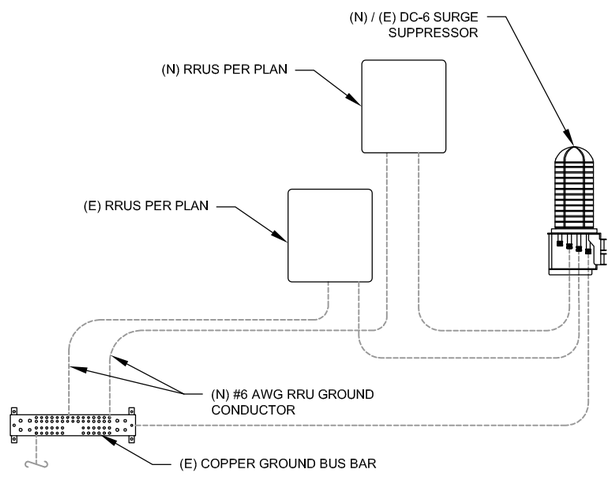


GROUND BAR NOTES

1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

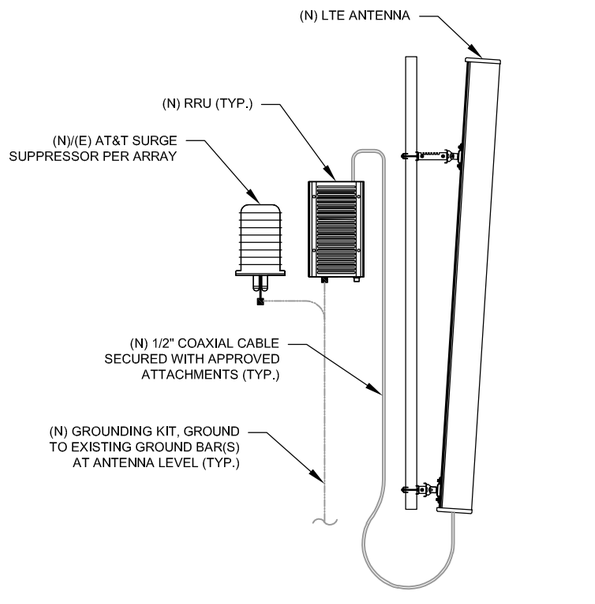
4 TYP. MAIN GROUND BAR DETAIL

SCALE: N.T.S.



5 TYP. RRU GROUNDING

SCALE: N.T.S.



6 TYP. ANTENNA/RRU GROUNDING

SCALE: N.T.S.

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Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RC	05/25/21
0	FINAL CD	RC	06/24/21

ATC SITE NUMBER:
306035
ATC SITE NAME:
UNITY VILLAGE
MO 2
SITE ADDRESS:
2150 NORTHWEST LOWENSTEIN DRIVE
LEES SUMMIT, MO 64081

SEAL:

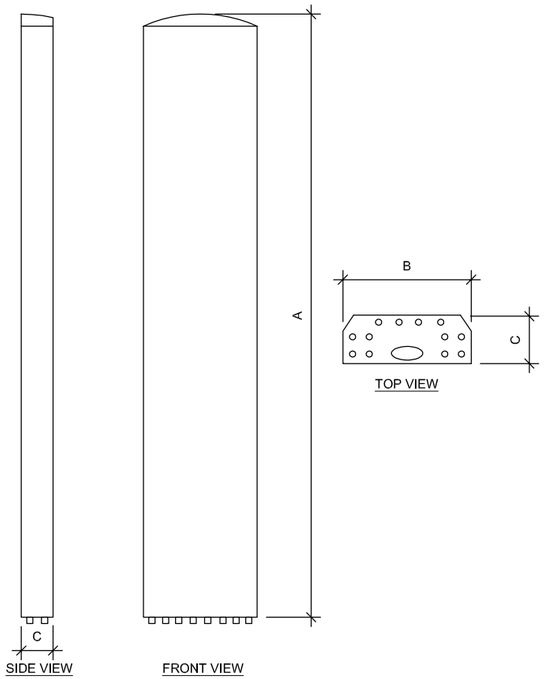
STATE OF MISSOURI
PETER P. LICHOMSKI
NUMBER A-2015003113
ARCHITECT

AT&T

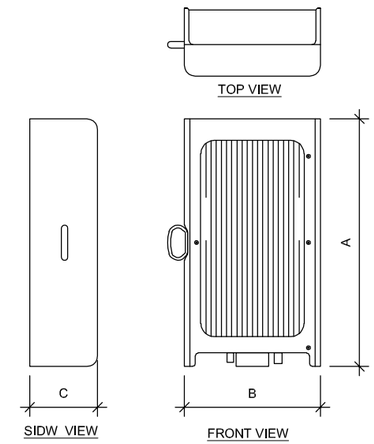
DATE DRAWN:	05/25/21
ATC JOB NO:	13619563
CUSTOMER ID:	KS4022
CUSTOMER NAME:	UNITY VILLAGE

GROUNDING DETAILS

SHEET NUMBER: E-501
REVISION: 0



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AEQK	29.5"	17.2"	9.5"	99.2



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
NOKIA AIRSCALE TRI RRH 4T4R B12/14/29 370 W AHLBBA	24.0"	14.1"	7.8"	94.8

1 EQUIPMENT SPECIFICATIONS

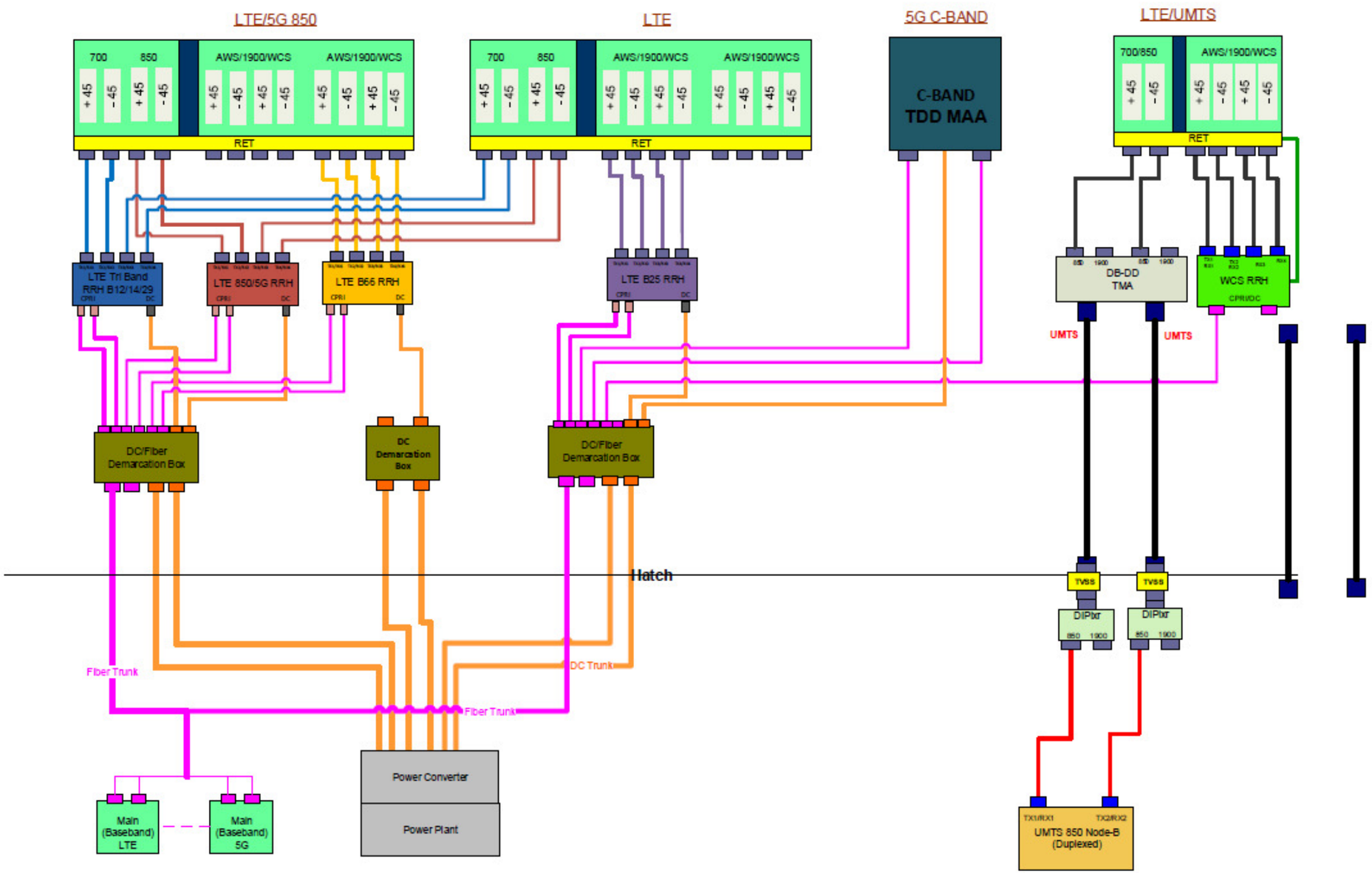
SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: 0

Diagram - Sector	A	Diagram File Name - KSL04022.vsd					
Atoll Site Name -	KSL04022	Location Name -	UNITY VILLAGE	Market -	KANSAS CITY	Market Cluster -	MISSOURI/KANSAS
Comments:							



1 PLUMBING DIAGRAM

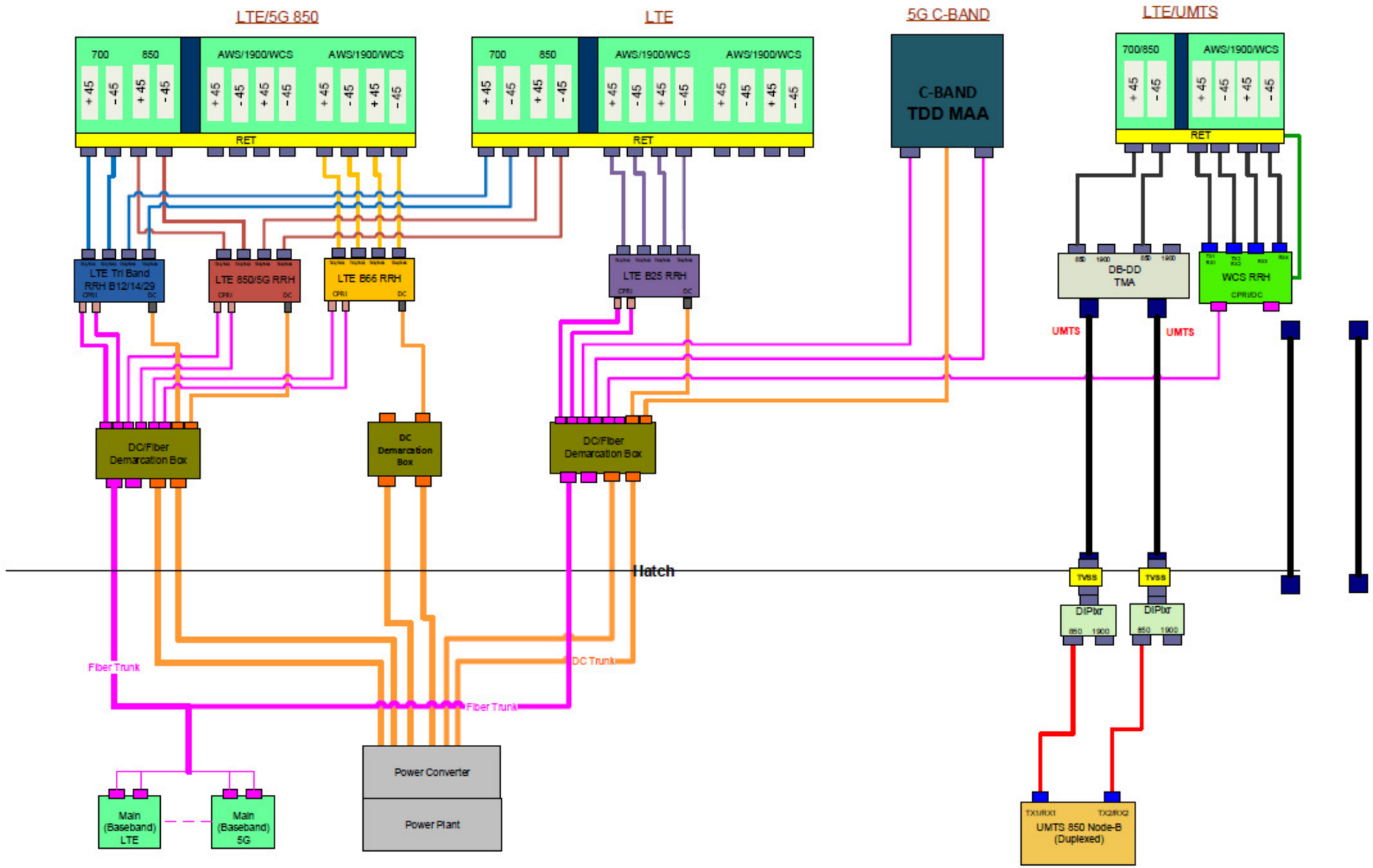
SCALE: NOT TO SCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-602	0

Diagram - Sector	B	Diagram File Name - KSL04022.vsd					
Atoll Site Name -	KSL04022	Location Name -	UNITY VILLAGE	Market -	KANSAS CITY	Market Cluster -	MISSOURI/KANSAS
Comments:							



1 PLUMBING DIAGRAM

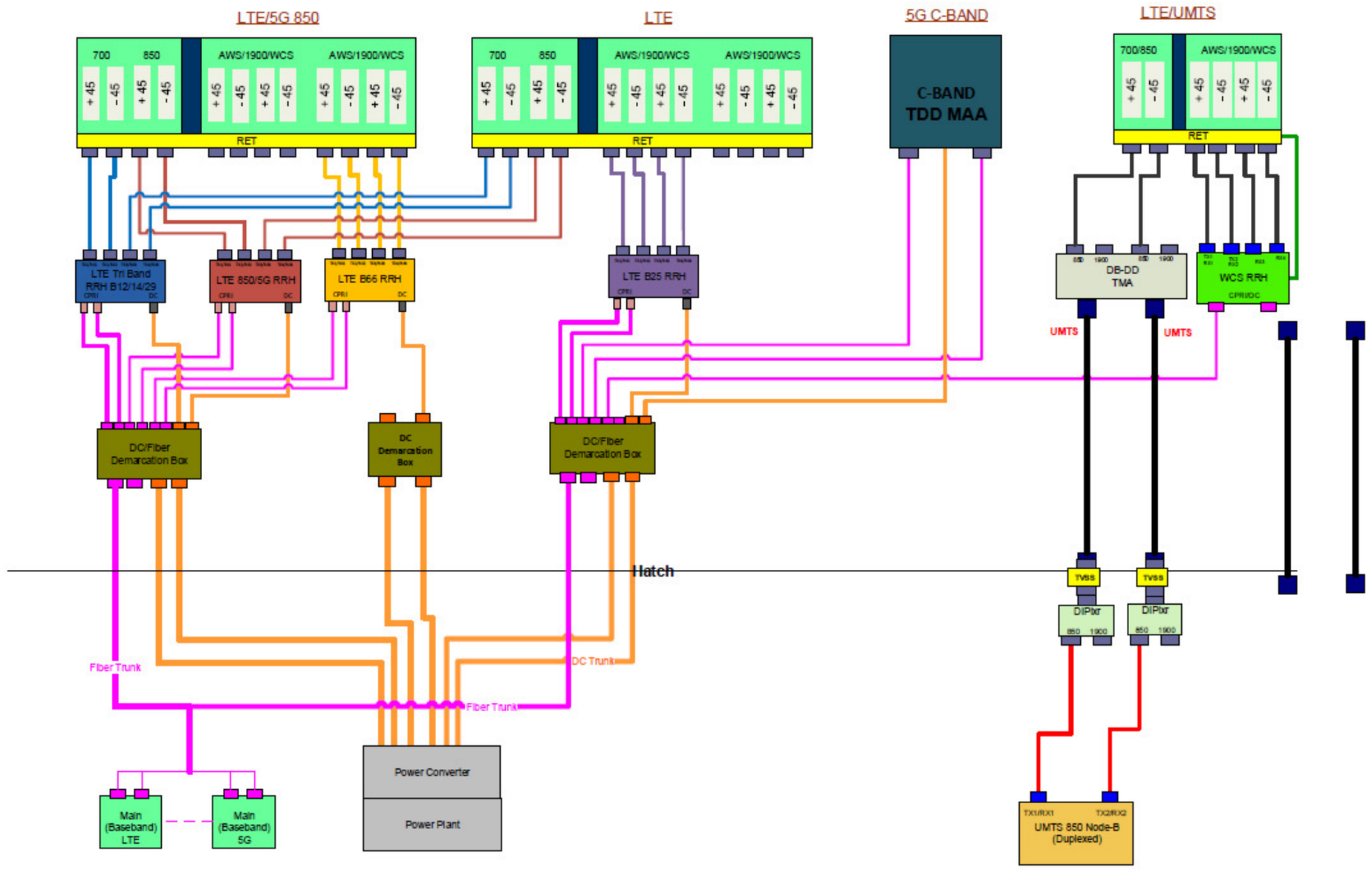
SCALE: NOT TO SCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-603	0

Diagram - Sector	C	Diagram File Name - KSL04022.vsd					
Atoll Site Name -	KSL04022	Location Name -	UNITY VILLAGE	Market -	KANSAS CITY	Market Cluster -	MISSOURI/KANSAS
Comments:							



1 PLUMBING DIAGRAM

SCALE: NOT TO SCALE

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SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-604	0

AMERICAN TOWER®
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Mount Analysis Report

ATC Site Name	:	**Unity Village MO 2, MO**
ATC Site Number	:	**306035**
Engineering Number	:	**13619563_C8_01**
Mount Elevation	:	**150 ft**
Carrier	:	**AT&T Mobility**
Carrier Site Name	:	**UNITY VILLAGE**
Carrier Site Number	:	**KS4022**
Site Location	:	**2150 NW LOWENSTEIN** **Lees Summit, MO 64081-1905** **38.93361269 , -94.41749129**
County	:	**Jackson**
Date	:	**May 20, 2021**
Max Usage	:	**46%**
Result	:	**Pass**

Prepared By:
Alan Samboy
Structural Engineer

Alan Samboy

Reviewed By:

STATE OF MISSOURI
SCOTT A WIRGAU
NUMBER PE-2016036844
PROFESSIONAL ENGINEER

COA: 2006031326

AMERICAN TOWER®
CORPORATION

Introduction

The purpose of this report is to summarize results of the mount analysis performed for AT&T Mobility at 150 ft.

Supporting Documents

Specifications Sheet	Sabre C10857007C, dated February 29, 2016
Radio Frequency Data Sheet	RFDS ID #10000434, dated April 28, 2021
Reference Photos	Site photos from 2019

Analysis

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 1/2" radial ice concurrent
Codes:	ANSI/TIA-222-H
Exposure Category:	C
Risk Category:	II
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
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above. The mount can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

ATC Tower Services - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919.468.0112 Office - 919.466.5414 Fax - www.americantower.com

1 MOUNT ANALYSIS

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

SHEET NUMBER:	REVISION:
R-605	0

Application Loading

Mount Centerline (ft)	Equipment Centerline (ft)	Qty	Equipment Manufacturer & Model
162.0	162.0	1	Andrew Microwaves UHX6-105
150.0	151.0	3	Nokia AEQK AirScale MAA 64T64R 192AE n77 200W
		6	Quintel QS86512-2
		3	Commscope SBNHH-1D65C
		3	Powerwave Allgon TT08-19DB111-001
		1	Raycap DC6-48-60-18-8F
		1	Raycap DC6-48-60-0-8F
		1	Raycap DC6-48-60-18-8F ("Squid")
		3	Nokia AHLBBA
		3	Alcatel-Lucent RRH4X25-WCS
		3	Nokia AirScale RRH 4T4R B5 160W AHCA
		3	Alcatel-Lucent B66A RRH4x45-4R w/ Solar Shield
		3	Alcatel-Lucent B25 RRH4x30

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Horizontals	45%	Pass
Verticals	20%	Pass
Diagonals	17%	Pass
Tie-Backs	4%	Pass
Mount Pipes	46%	Pass

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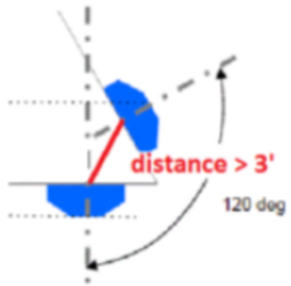
SUPPLEMENTAL

SHEET NUMBER: R-606

REVISION: 0

RF REQUIREMENTS FOR 700 B14 FIRSTNET, 700 B12, 700D B29 ANTENNA SEPARATION

- ❑ Horizontal separation (side to side of antenna): >= 3’
- ❑ Vertical separation (between the tips of the antennas): > 3’
- ❑ Inter-sector separation: > 3’ between the center of the antenna backplanes.



- ❑ Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- ❑ Typical 3' horizontal separation can tolerate skew angle up to 6°.

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SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-607	0