



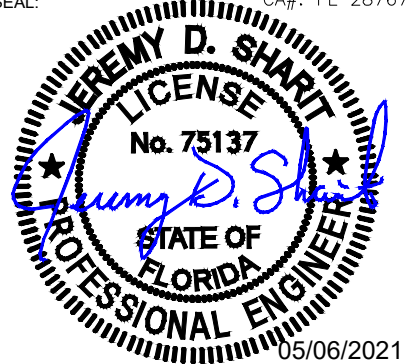
CURRENT PROJECTS:

4TX4RX	- PACE #:	MRTFL004884
5G NR	- PACE #:	MRTFL004883
4C	- PACE #:	MRTFL004885
5C	- PACE #:	MRTFL004886
4TX4RX	- PACE #:	MRTFL004887

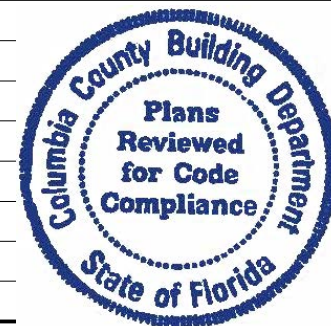


ATC SITE NUMBER:
88417
ATC SITE NAME:
BENTON FL
AT&T MOBILITY SITE NAME:
FNL03217
SITE ADDRESS:
**188 NW BAY CREEK STREET
WHITE SPRINGS, FL 32096**

SEAL:  CA#: FL 28767



SHEET NUMBER: G-001	REVISION: 0
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[illegible]

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 KIT 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 OF 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 AND PROVIDE PRINTOUT OF THAT TEST.
- 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)

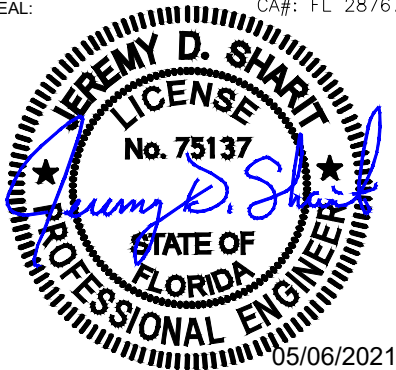
ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE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



REV.	DESCRIPTION	BY	DATE
0	ISS. FOR CONSTRUCTION	WSM	05/06/21

ATC SITE NUMBER:
88417
ATC SITE NAME:
BENTON FL
AT&T MOBILITY SITE NAME:
FNL03217
SITE ADDRESS:
188 NW BAY CREEK STREET
WHITE SPRINGS, FL 32096

SEAL: CA#: FL 28767



DATE DRAWN:	05/19/20
ATC JOB NO:	272058
CUSTOMER ID:	10091921
CUSTOMER #:	GSVLFLU0217

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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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.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

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

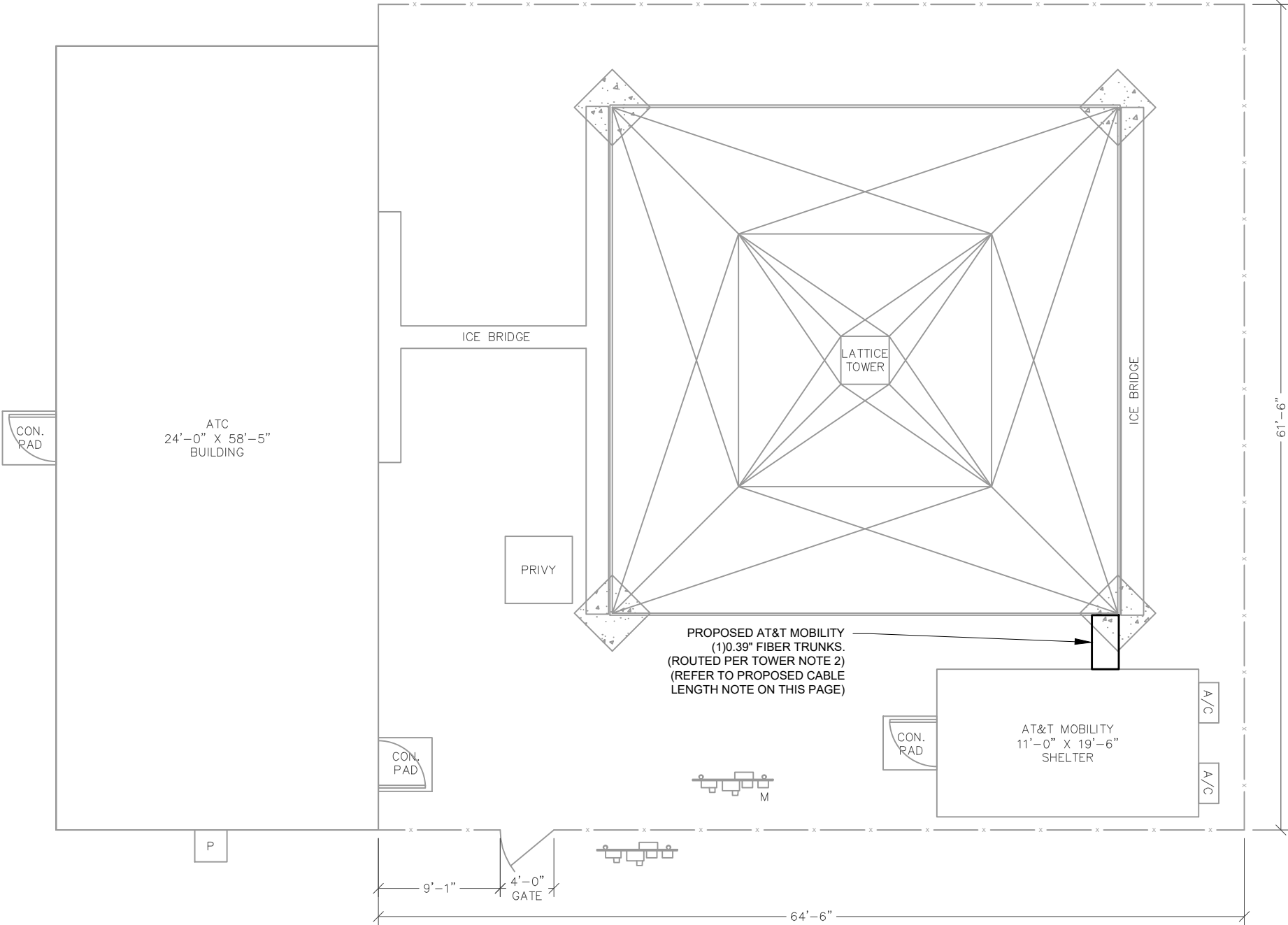
TRN

TRANSFORMER

— x —

CHAINLINK FENCE

- PROPOSED CABLE LENGTH :
1. ESTIMATED LENGTH OF PROPOSED CABLE IS 345' . 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).



1 DETAILED SITE PLAN

0

10'

20'

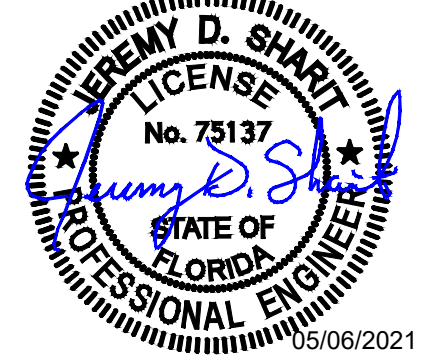
SCALE: 1"=10' (11X17)
1"=5' (22X34)



REV.	DESCRIPTION	BY	DATE
0	ISS. FOR CONSTRUCTION	WSM	05/06/21
1			
2			
3			
4			

ATC SITE NUMBER:
88417
ATC SITE NAME:
BENTON FL
AT&T MOBILITY SITE NAME:
FNL03217
SITE ADDRESS:
188 NW BAY CREEK STREET
WHITE SPRINGS, FL 32096

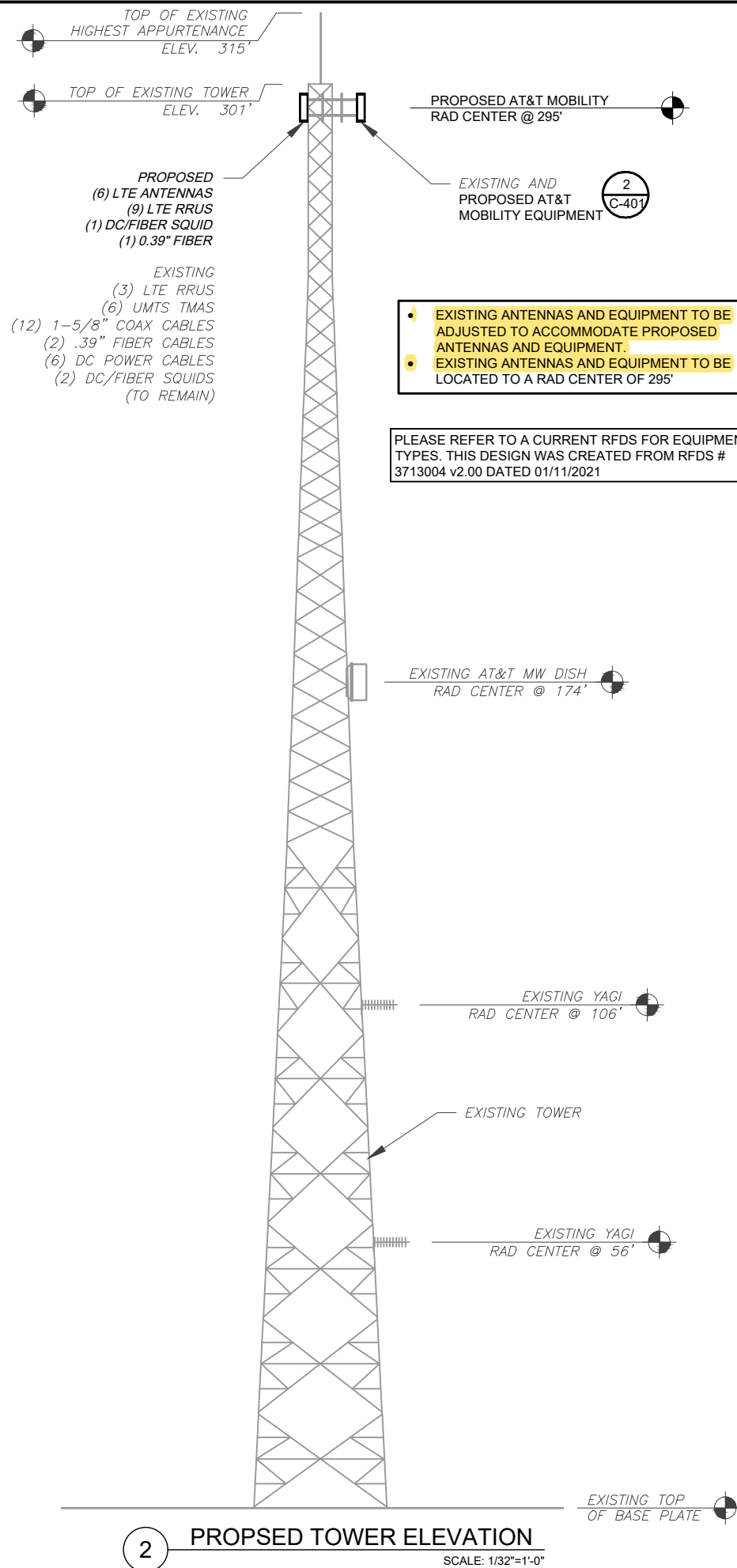
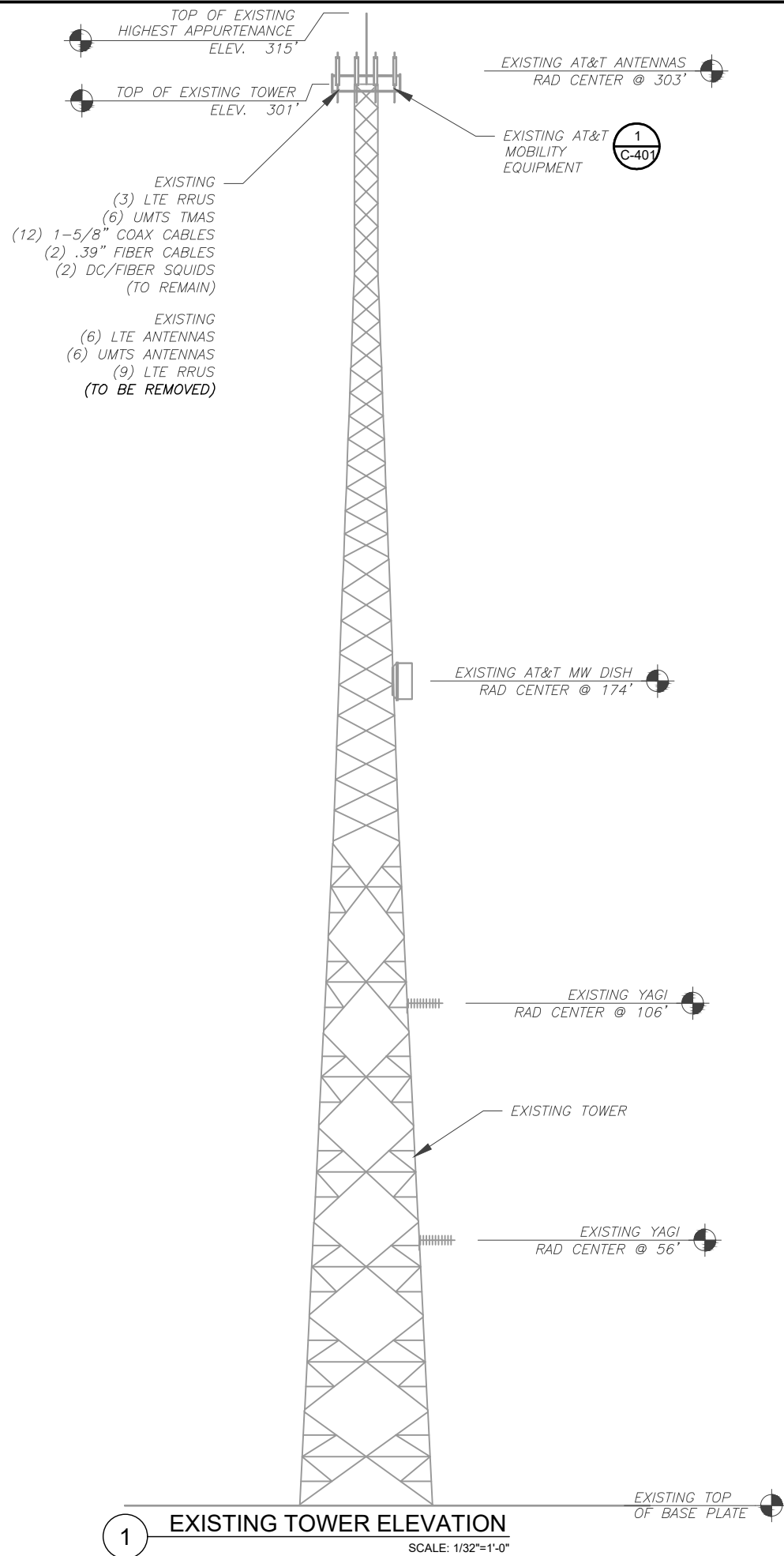
SEAL: CA#: FL 28767



DATE DRAWN:	05/19/20
ATC JOB NO:	272058
CUSTOMER ID:	10091921
CUSTOMER #:	GSVLFLU0217

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0



PER MOUNT ANALYSIS COMPLETED BY ATC TOWER SERVICES, LLC, DATED 03/05/2021, 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

- COAXIAL CABLE NOTES:
- CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION. REFER TO "ANTENNA SYSTEM LABELING STANDARD" ND-00027 LATEST VERISON.
 - CONTRACTOR SHALL WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE. WEATHERPROOFING SHALL BE COMPLETED IN STRICT ACCODRANCE WITH AT&T STANDARDS.
 - CONTRACTOR SHALL GROUND ALL EQUIPMENT. INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CBALES AS A COMPLETE SYTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
 - CONTRACTOR 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.

- TOWER NOTE:
- 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.
 - 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 ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



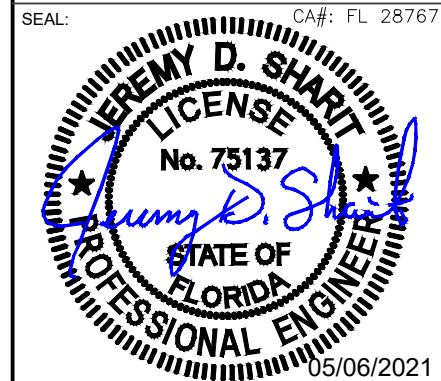
REV.	DESCRIPTION	BY	DATE
0	ISS. FOR CONSTRUCTION	WSM	05/06/21

ATC SITE NUMBER:
88417

ATC SITE NAME:
BENTON FL

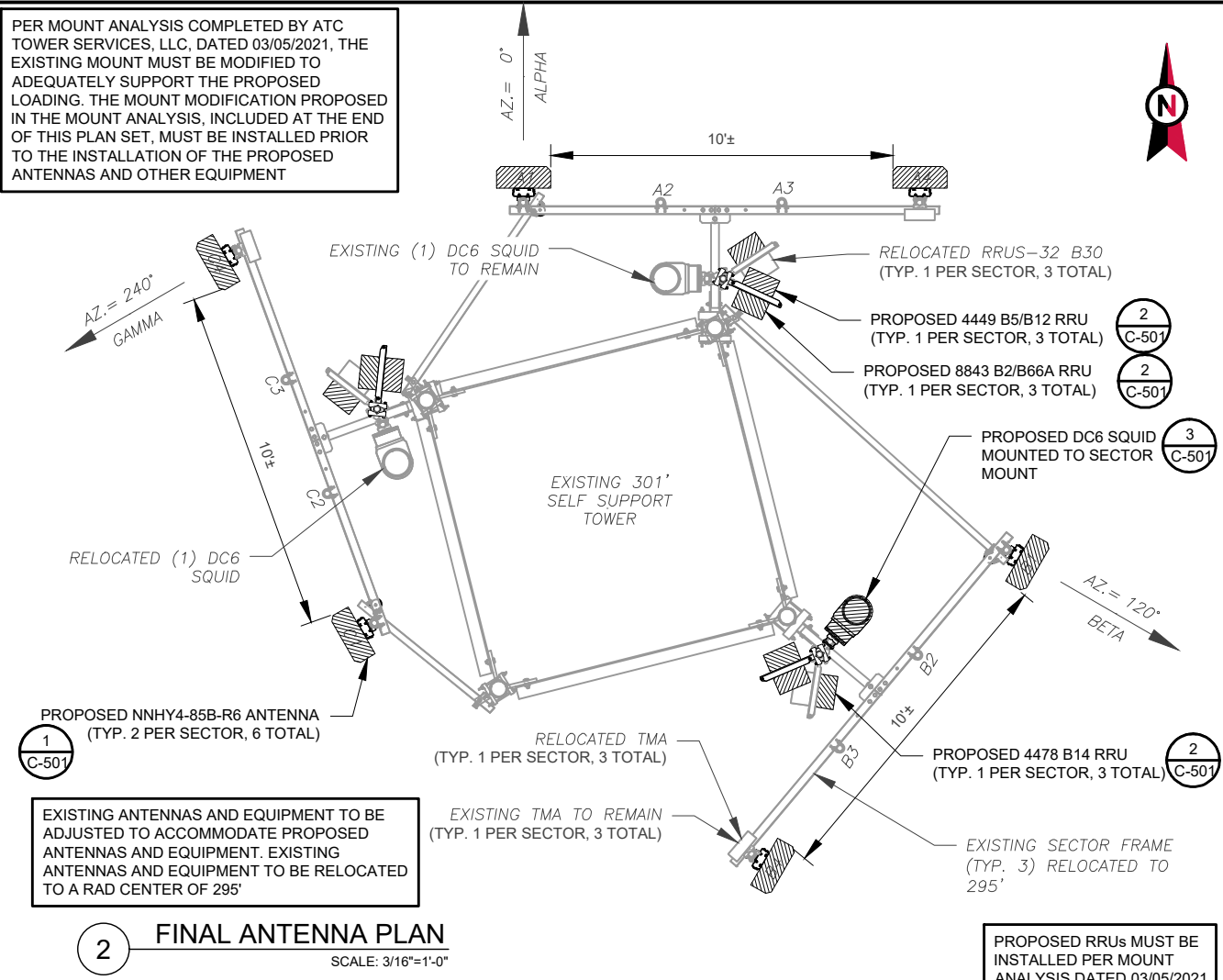
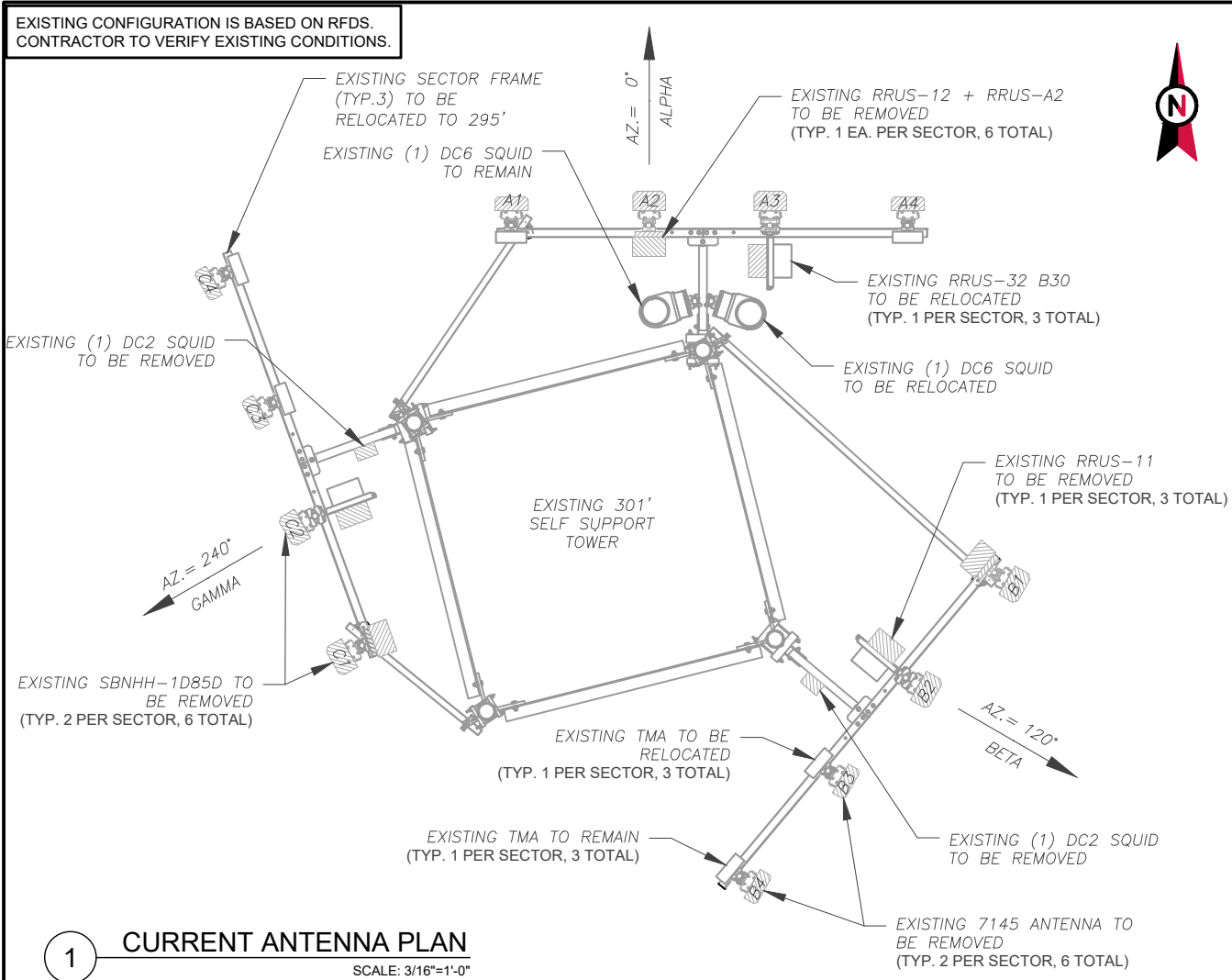
AT&T MOBILITY SITE NAME:
FNL03217

SITE ADDRESS:
188 NW BAY CREEK STREET
WHITE SPRINGS, FL 32096



DATE DRAWN:	05/19/20
ATC JOB NO:	272058
CUSTOMER ID:	10091921
CUSTOMER #:	GSVLFLU0217

TOWER ELEVATION	
SHEET NUMBER: C-201	REVISION: 0



EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	303'	0°	A1	POWERWAVE 7145	UMTS 850	RMV	KRY 112 81/2 R26	REL
			A2	ANDREW SBNHH-1D85B	LTE 1900	RMV	RRUS-12 B2 +RRUS A2	RMV
			A3	ANDREW SBNHH-1D85B	700/WCS LTE	RMV	RRUS-11 B12	RMV
			A4	POWERWAVE 7145	UMTS 850	RMV	RRUS-32 B30	REL
BETA	303'	120°	B1	ANDREW SBNHH-1D85B	UMTS 850	RMV	KRY 112 81/2 R26	REL
			B2	ANDREW SBNHH-1D85B	LTE 1900	RMV	RRUS-12 B2 +RRUS A2	RMV
			B3	ANDREW SBNHH-1D85B	700/WCS LTE	RMV	RRUS-11 B12	RMV
			B4	POWERWAVE 7145	UMTS 850	RMV	RRUS-32 B30	REL
GAMMA	303'	240°	C1	POWERWAVE 7145	UMTS 850	RMV	KRY 112 81/2 R26	REL
			C2	ANDREW SBNHH-1D85B	LTE 1900	RMV	RRUS-12 B2 +RRUS A2	RMV
			C3	ANDREW SBNHH-1D85B	700/WCS LTE	RMV	RRUS-11 B12	RMV
			C4	POWERWAVE 7145	UMTS 850	RMV	RRUS-32 B30	REL

- NOTES
1. BASED ON APPROVED ATC APPLICATION 272058, DATED 05/04/2020. 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. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 3. THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
 4. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)

FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	295'	0°	A1	COMMSCOPE NNH4-85B-R6	LTE 700/850/1900/AWS 5G 850	ADD	4449 B5/B12	ADD	
			A2	-	-	-	8843 B2/B66A	ADD	
			A3	-	-	-	-	-	
			A4	COMMSCOPE NNH4-85B-R6	LTE 700/WCS UMTS 850	ADD	(2) KRY 112 81/2 R26 RRUS-32 B30	REL/RMN	
BETA	295'	120°	B1	COMMSCOPE NNH4-85B-R6	LTE 700/850/1900/AWS 5G 850	ADD	4478 B14	ADD	
			B2	-	-	-	4449 B5/B12	ADD	
			B3	-	-	-	8843 B2/B66A	ADD	
			B4	COMMSCOPE NNH4-85B-R6	LTE 700/WCS UMTS 850	ADD	(2) KRY 112 81/2 R26 RRUS-32 B30	REL/RMN	
GAMMA	295'	240°	C1	COMMSCOPE NNH4-85B-R6	LTE 700/850/1900/AWS 5G 850	ADD	4478 B14	ADD	
			C2	-	-	-	4449 B5/B12	ADD	
			C3	-	-	-	8843 B2/B66A	ADD	
			C4	COMMSCOPE NNH4-85B-R6	LTE 700/WCS UMTS 850	ADD	(2) KRY 112 81/2 R26 RRUS-32 B30	REL/RMN	

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(1) DC6-48-60-18-8F	RMN	(12) 1-5/8"	(2) 0.78" 8AWG 6	(2) .39"	RMN
(1) DC6-48-60-18-8F	REL	-	(4) 0.92" CABLE	-	RMN
(2) DC2-48-60-0-9E	RMV	-	-	-	-
-	-	-	-	-	-

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

SQUID TO RRU: 15'
RRU TO ANTENNA: 10'

EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(1) DC6-48-60-18-8F	RMN	(12) 1-5/8"	(2) 0.78" 8AWG 6	(2) .39"	RMN
(1) DC6-48-60-18-8F	REL	-	(4) 0.92" CABLE	-	RMN
(1) DC6-48-60-18-8C-EV	ADD	-	-	(1) 0.39"	ADD



REV.	DESCRIPTION	BY	DATE
A	ISS. FOR CONSTRUCTION	WSM	05/06/21

ATC SITE NUMBER:

88417

ATC SITE NAME:

BENTON FL

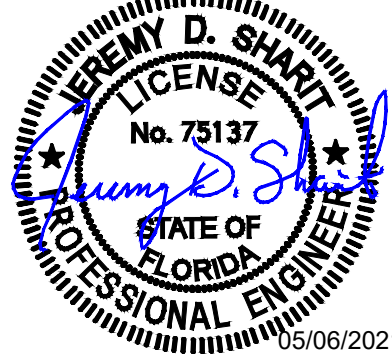
AT&T MOBILITY SITE NAME:

FNL03217

SITE ADDRESS:

188 NW BAY CREEK STREET
WHITE SPRINGS, FL 32096

SEAL: CA#: FL 28767



DATE DRAWN:	05/19/20
ATC JOB NO:	272058
CUSTOMER ID:	10091921
CUSTOMER #:	GSVLFLU0217

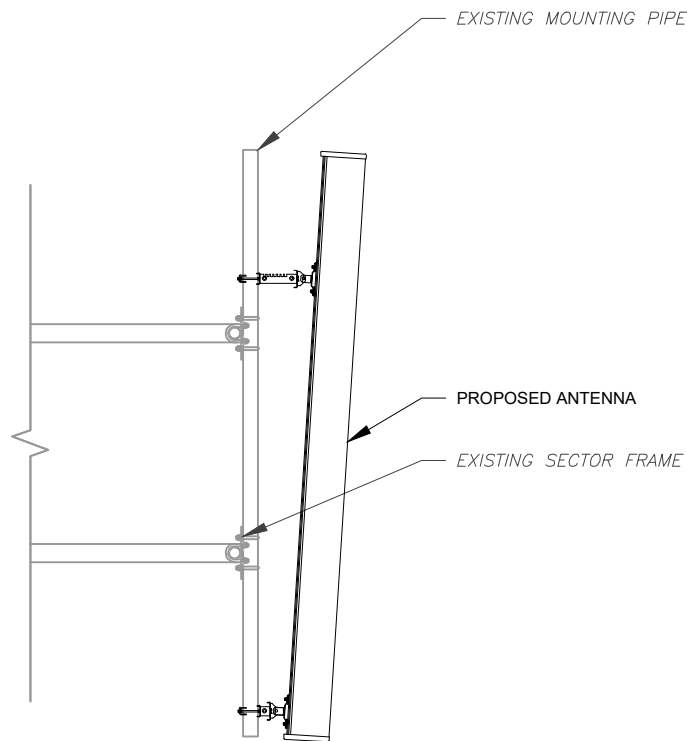
RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:

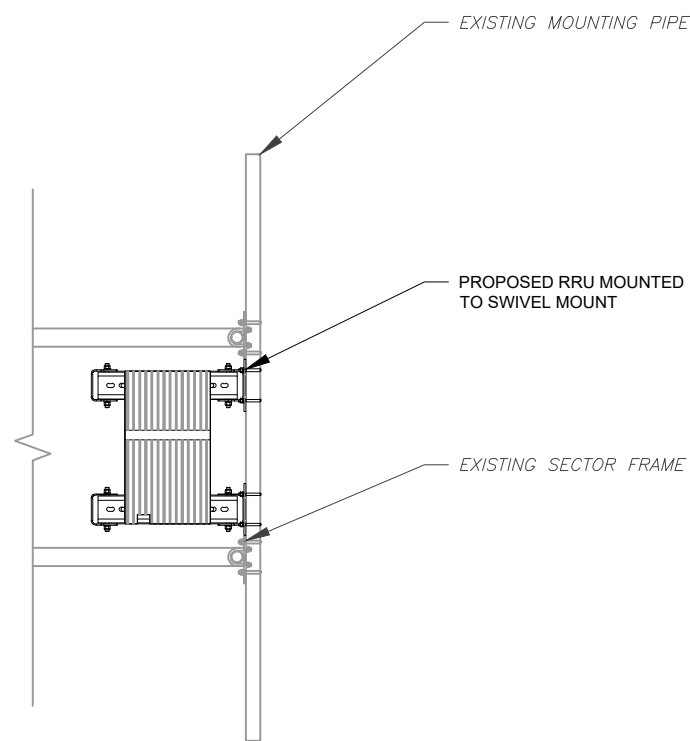
C-401

REVISION:

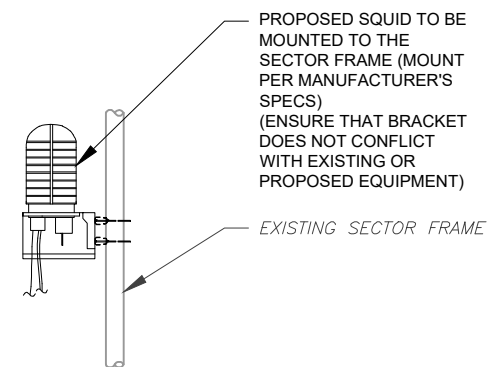
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1 ANTENNA DETAIL
SCALE: N.T.S.



2 RRU DETAIL
SCALE: N.T.S.



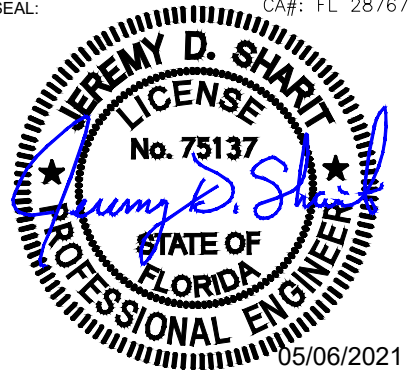
3 PROPOSED SQUID MOUNTING
SCALE: N.T.S.



REV.	DESCRIPTION	BY	DATE
A	ISSUE FOR CONSTRUCTION	WJM	05/08/20

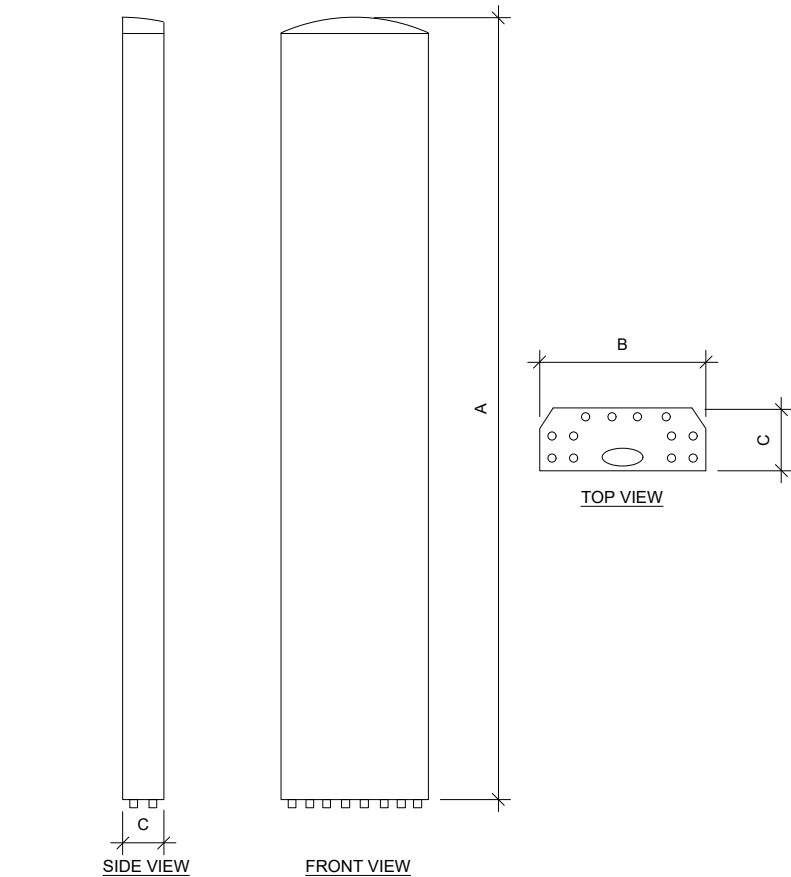
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88417
ATC SITE NAME:
BENTON FL
AT&T MOBILITY SITE NAME:
FNL03217
SITE ADDRESS:
188 NW BAY CREEK STREET
WHITE SPRINGS, FL 32096

SEAL: CA#: FL 28767



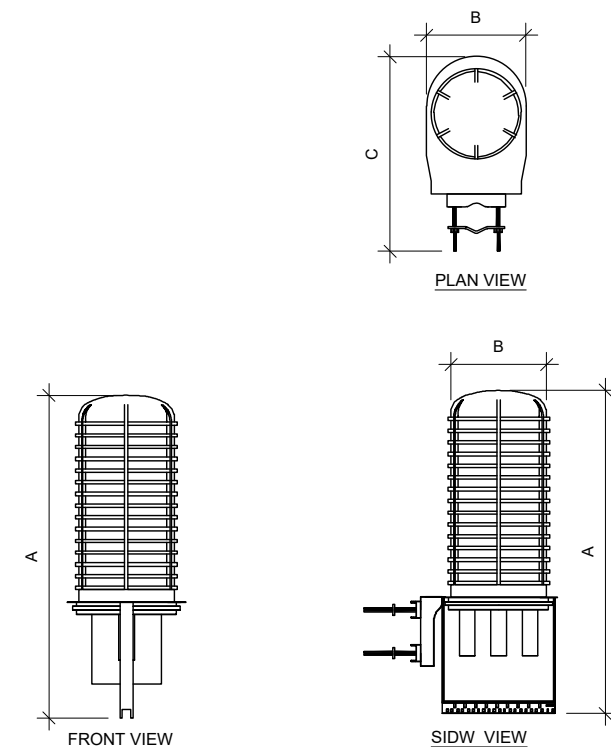
DATE DRAWN:	05/19/20
ATC JOB NO:	272058
CUSTOMER ID:	10091921
CUSTOMER #:	GSVLFLU0217

CONSTRUCTION DETAILS	
SHEET NUMBER: C-501	REVISION: 0



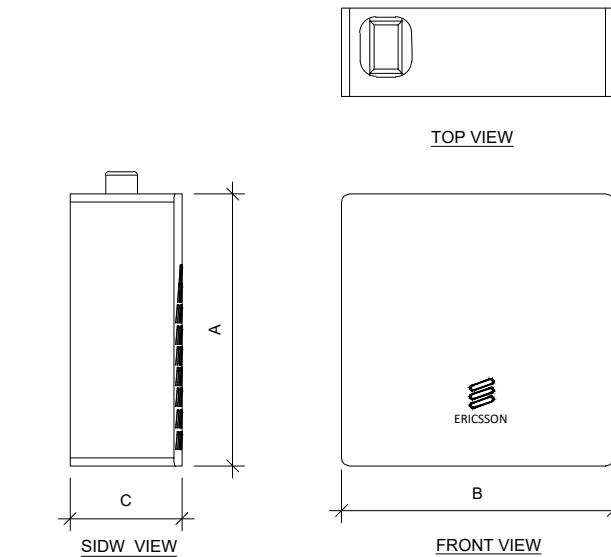
ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
NNH4-85B-R6	72.0"	19.6"	7.8"	82.2

1 ANTENNA SPECIFICATIONS
SCALE: N.T.S.



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC6-48-60-18-8C-EV	31.4"	18.3"	10.2"	26.2

3 RAYCAP SPECIFICATIONS
SCALE: N.T.S.



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4449 B5, B12	17.9"	13.2"	9.4"	71.0
4478 B14	18.1"	13.4"	8.3"	59.4
8843 B2, B66A	14.9"	13.2"	10.9"	72.0

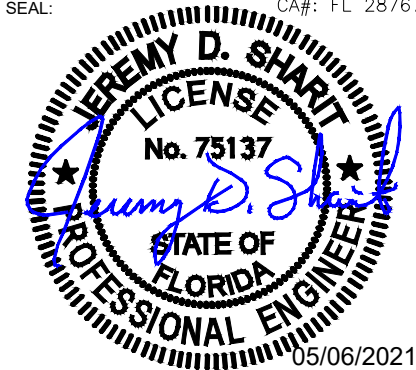
2 RRU SPECIFICATIONS
SCALE: N.T.S.



REV.	DESCRIPTION	BY	DATE
0	ISS. FOR CONSTRUCTION	WSM	05/06/21

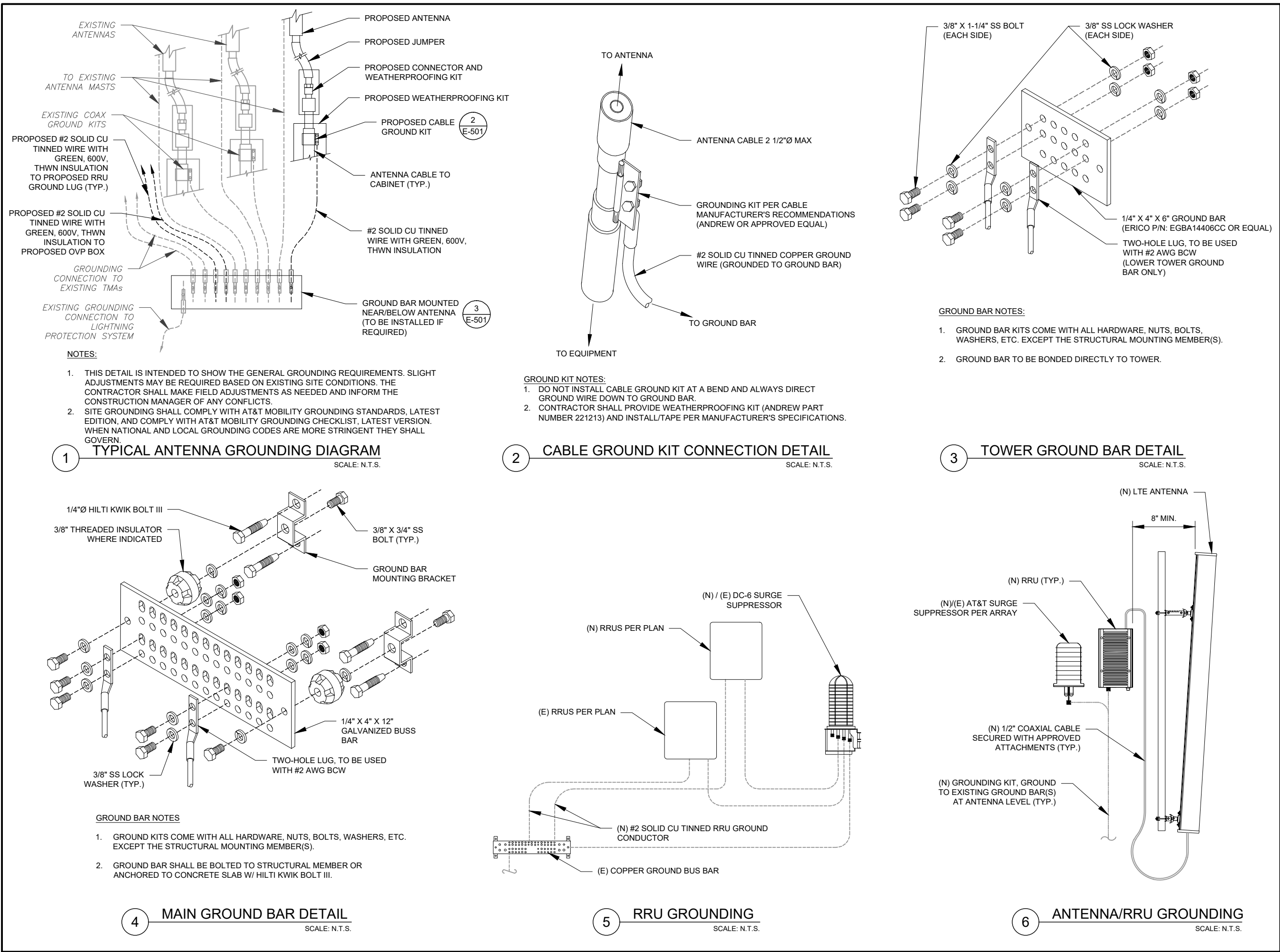
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88417
ATC SITE NAME:
BENTON FL
AT&T MOBILITY SITE NAME:
FNL03217
SITE ADDRESS:
188 NW BAY CREEK STREET
WHITE SPRINGS, FL 32096


SEAL: CA#: FL 28767




DATE DRAWN:	05/19/20
ATC JOB NO:	272058
CUSTOMER ID:	10091921
CUSTOMER #:	GSVLFLU0217

EQUIPMENT SPECIFICATIONS	
SHEET NUMBER: C-502	REVISION: 0





AMERICAN TOWER®



SMW
ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

REV.	DESCRIPTION	BY	DATE
0	ISS. FOR CONSTRUCTION	WSM	05/06/21

ATC SITE NUMBER:

88417

ATC SITE NAME:

BENTON FL

AT&T MOBILITY SITE NAME:

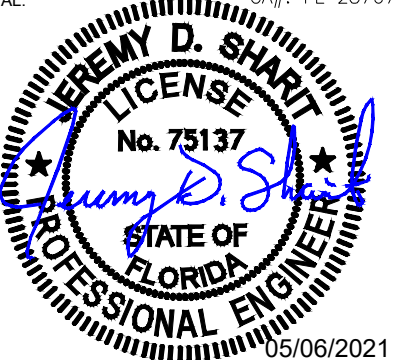
FNL03217

SITE ADDRESS:


188 NW BAY CREEK STREET
WHITE SPRINGS, FL 32096

SEAL:

CA#: FL 28767



05/06/2021



AT&T

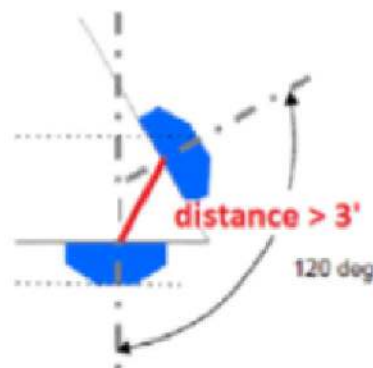
DATE DRAWN:	05/19/20
ATC JOB NO:	272058
CUSTOMER ID:	10091921
CUSTOMER #:	GSVLFLU0217

GROUNDING
DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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

- ❑ Horizontal separation (side to side of antenna): $\geq 3'$
- ❑ Vertical separation (between the tips of the antennas): $> 3'$
- ❑ Inter-sector separation: $> 3'$ between the center of the antenna backplanes.



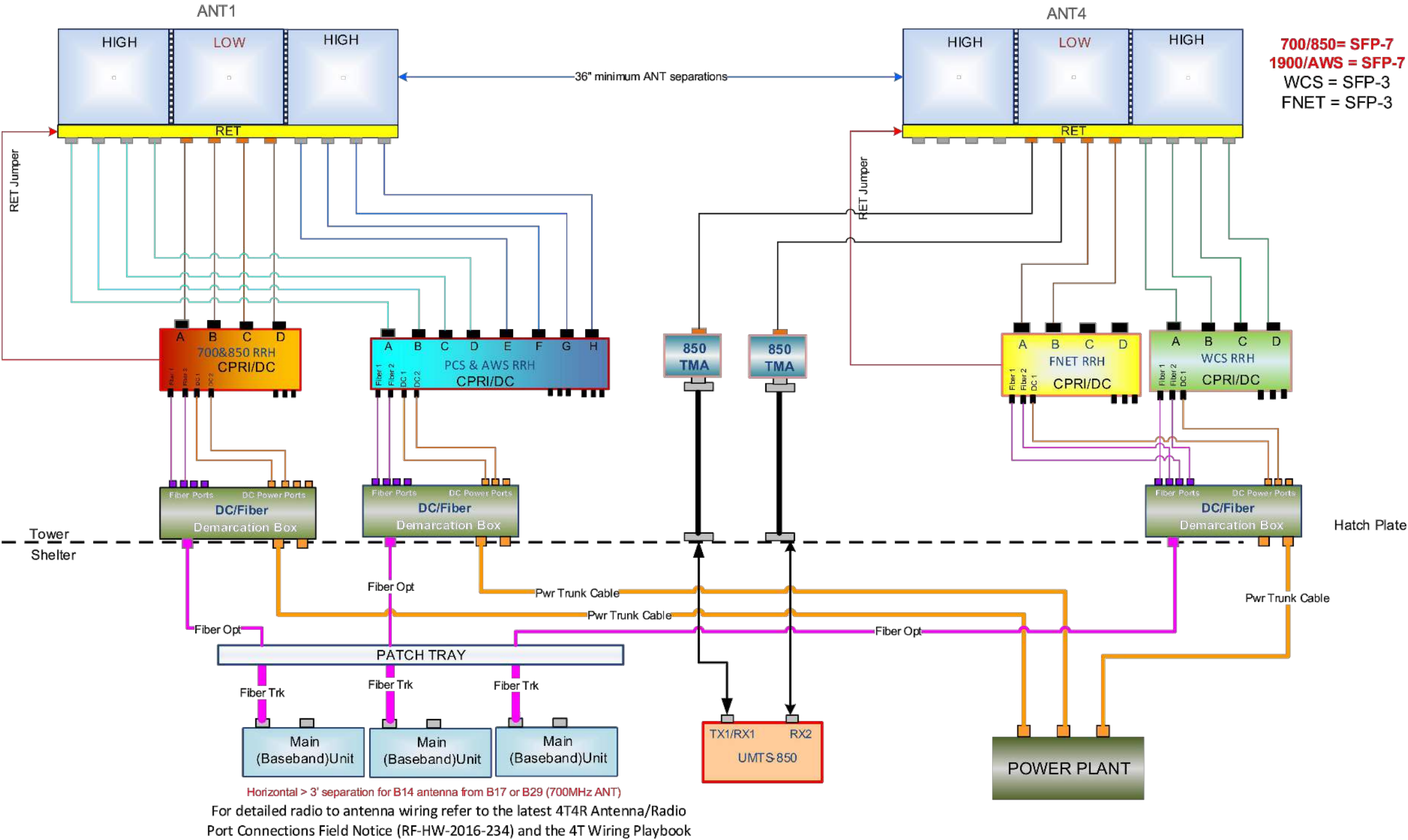
- ❑ Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- ❑ Typical 3' horizontal separation can tolerate skew angle up to 6° .



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

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-601	0





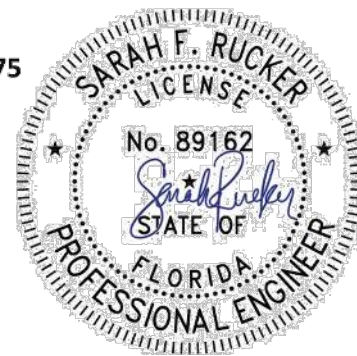
Eng. Number 13337138_C8_02
March 4, 2021
Page 1

Antenna Mount Analysis Report

ATC Site Name : BENTON FL, FL
ATC Site Number : 88417
Engineering Number : 13337138_C8_02
Mount Elevation : 295 ft
Carrier : AT&T Mobility
Carrier Site Name : MRTFL004885 / Benton
Carrier Site Number : 10091921
Site Location : 188 NW Baycreek Street
White Springs, FL 32096
30.51822222 , -82.672875
County : Columbia
Date : March 4, 2021
Max Usage : 72%
Result : Contingent Pass

Prepared By:
Max Carter
Structural Engineer

Reviewed By:



This item has been electronically signed and sealed by Sarah F. Rucker, PE on the date shown using a digital signature. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

Authorized by "EOR"
05 Mar 2021 03:03:39

COA: 9053

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 295 ft.

Supporting Documents

Specifications Sheet	Commscope VSRDual-TS-B-HD, dated September 26, 2017
Mount Mapping	TEP Project #53155-15126, dated February 12, 2018
Radio Frequency Data Sheet	RFDS ID #10091921, dated July 28, 2020
Reference Photos	Site photos from 2020
Previous Mount Analysis	SMW Engineering Group Project #18-5094 dated February 26, 2018

Analysis

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

Basic Wind Speed:	116 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	30 mph (3-Second Gust) w/ 1/4" radial ice concurrent
Codes:	ANSI/TIA-222-H / 2018 IBC / 7th Ed. (2020) Florida Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.094, S1 = 0.054
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 provided the modifications listed below are completed:

- Install mount pipe E within 12" of the tower connection to hold the proposed RRUs. For this analysis an antenna mounting pipe 2.0" SCH 40 x 84" was considered.

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.

DC / FIBER DEMARCATION BOX							
RAYCAP DC FIBER DEMARCATION BOX			CABLES				NOTES
MOUNTING HEIGHT	MODEL	QTY.	MODEL	SIZE	QTY.	LENGTH PER LINE	
295'-0"	DC6-48-60-18-3F	2	FB-198B-034 (18) PAIR FIBER TRUNK	0.39"	3	345'-0"	
295'-0"	DC6-48-60-18-8C-EV	1	WR-V666ST-BRD - R8 AWG 6 POWER CABLE	0.78"	2	345'-0"	
			DC POWER CABLE	0.92"	4	345'-0"	

ANTENNA AND COAX SCHEDULE																						
SECTOR	AZ.	RAD CNTR	ANTENNAS				CABLES							RRU/RRH		A2 MOD	COMPONENT			TMA		
			ANTENNA		QTY.	APPROXIMATE ANTENNA SPECS	DOWNTILT		MODEL	SIZE	QTY.	LENGTH/UNE	COLOR CODE	MODEL	QTY.		MODEL	TWR QTY.	GRND QTY.	MODEL	QTY.	
			MAKE	MODEL			ELEC.	MECH.														QTY.
ALPHA (A1)	0°	295'-0"	COMMSCOPE	NNH4-85B-R6	1	H-71.97" x W-19.6" x D-7.76"	0/2	0	RET JUMPER 1-5/8" COAX FEEDER CABLE ROSENBERGER FIBER JUMPER (DC6 TO RRU) ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU) 1/2" COAX JUMPER (RRU TO ANTENNA)	5/16" 1-5/8" 3/8" 7/16" 1/2"	1 2 4 4 12	15'-0" 345'-0" 15'-0" 15'-0" 10'-0"	1 RED 1 RED 1 RED 1 RED 1 RED	- 4449 B5/B12 - 8843 B2/B66A -	- 1 - 1 1	- - - - -	-	-	-	-	-	
ALPHA (A4)	0°	295'-0"	COMMSCOPE	NNH4-85B-R6	1	H-71.97" x W-19.6" x D-7.76"	2	0	RET JUMPER 1-5/8" COAX FEEDER CABLE ROSENBERGER FIBER JUMPER (DC6 TO RRU) ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU) 1/2" COAX JUMPER (RRU/TMA TO ANTENNA)	5/16" 1-5/8" 3/8" 7/16" 1/2"	1 2 4 2 8	15'-0" 345'-0" 15'-0" 15'-0" 10'-0"	2 RED 2 RED 2 RED 2 RED 2 RED	- RRU5-32 B30 - 4478 B14 -	- 1 - 1 -	- - - - -	-	-	-	-	-	
BETA (B1)	120°	295'-0"	COMMSCOPE	NNH4-85B-R6	1	H-71.97" x W-19.6" x D-7.76"	0/2	0	RET JUMPER 1-5/8" COAX FEEDER CABLE ROSENBERGER FIBER JUMPER (DC6 TO RRU) ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU) 1/2" COAX JUMPER (RRU TO ANTENNA)	5/16" 1-5/8" 3/8" 7/16" 1/2"	1 2 4 4 12	15'-0" 345'-0" 15'-0" 15'-0" 10'-0"	1 BLUE 1 BLUE 1 BLUE 1 BLUE 1 BLUE	- 4449 B5/B12 - 8843 B2/B66A -	- 1 - - 1	- - - - -	-	-	-	-	-	
BETA (B4)	120°	295'-0"	COMMSCOPE	NNH4-85B-R6	1	H-71.97" x W-19.6" x D-7.76"	2	0	RET JUMPER 1-5/8" COAX FEEDER CABLE ROSENBERGER FIBER JUMPER (DC6 TO RRU) ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU) 1/2" COAX JUMPER (RRU/TMA TO ANTENNA)	5/16" 1-5/8" 3/8" 7/16" 1/2"	1 2 4 2 8	15'-0" 345'-0" 15'-0" 15'-0" 10'-0"	2 BLUE 2 BLUE 2 BLUE 2 BLUE 2 BLUE	- RRU5-32 B30 - 4478 B14 -	- 1 - 1 -	- - - - -	-	-	-	-	-	
GAMMA (G1)	240°	295'-0"	COMMSCOPE	NNH4-85B-R6	1	H-71.97" x W-19.6" x D-7.76"	0/2	0	RET JUMPER 1-5/8" COAX FEEDER CABLE ROSENBERGER FIBER JUMPER (DC6 TO RRU) ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU) 1/2" COAX JUMPER (RRU TO ANTENNA)	5/16" 1-5/8" 3/8" 7/16" 1/2"	1 2 4 4 12	15'-0" 345'-0" 15'-0" 15'-0" 10'-0"	1 GREEN 1 GREEN 1 GREEN 1 GREEN 1 GREEN	- 4449 B5/B12 - 8843 B2/B66A -	- 1 - - 1	- - - - -	-	-	-	-	-	
GAMMA (G4)	240°	295'-0"	COMMSCOPE	NNH4-85B-R6	1	H-71.97" x W-19.6" x D-7.76"	2	0	RET JUMPER 1-5/8" COAX FEEDER CABLE ROSENBERGER FIBER JUMPER (DC6 TO RRU) ROSENBERGER SINGLE PAIR DC CABLE (DC6 TO RRU) 1/2" COAX JUMPER (RRU/TMA TO ANTENNA)	5/16" 1-5/8" 3/8" 7/16" 1/2"	1 2 4 2 8	15'-0" 345'-0" 15'-0" 15'-0" 10'-0"	2 GREEN 2 GREEN 2 GREEN 2 GREEN 2 GREEN	- RRU5-32 B30 - 4478 B14 -	- 1 - 1 -	- - - - -	-	-	-	-	-	
									TOTAL 1-5/8" COAX (ACTIVE)			12	4,140'-0"									
-ANTENNA AND COAX IN OR WAIT ON FROM 2ND FLOOR THE NS 1RD DS 3/13/04 V.2.00 SHEET 1 OF 11 (01/11/2012)												12	4,140'-0"									
									TOTAL			12	0	TOTAL			0	0	TOTAL			0

-ANTENNA AND COAX INFORMATION PROVIDED FROM THE NSI TRS 31713004 V.2.00 SHEET 01-11A (11/01/2021).

-CONTRACTOR TO VERIFY INFO WITH THE DTD PRIOR TO CONSTRUCTION.

-COAX LENGTHS ARE APPROXIMATE AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.

-ALL COAX SHALL BE COATED WITH TOP AND BOTTOM JUMPER AND AT TOP OF TOWER BOTTOM OF TOWER, AND NSI TRS SHEET 1-10 VIA V COAX.

-EAC - MAIN COAX SHALL HAVE CORROSION "PROOF" TAGS INSTALLED INSIDE THE SHELTER AT THE POINT AND AT THE ANTENNA.

QUANTITIES GIVEN ARE TOTAL EXISTING AND PROPOSED.

1

ANTENNA AND COAX SCHEDULE

SCALE: N.T.S.

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

SUPPLEMENTAL

SHEET NUMBER:
R-604

REVISION:
0