

COMPLIANCE CODE



AMERICAN TOWER®

ATC SITE NAME: HIGHWAY 441 NORTH

ATC SITE NUMBER: 97139

PROJECT SUMMARY

VERIZON SITE NAME: HIGHWAY 441 VERIZON SITE NUMBER: 228804

VERIZON FUZE PID: 16276872

SITE ADDRESS: 22535 N US HWY 441

WHITE SPRINGS, FL 32096-7100



LOCATION MAP

SHEET INDEX

VERIZON WIRELESS ANTENNA AMENDMENT DRAWINGS

PROJECT DESCRIPTION

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE	SITE ADDRESS	=	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS	22535 N US HWY 441 WHITE SPRINGS, FL 32096-7100		TOWER WORK:	G-001	TITLE SHEET	0	06/22/23	ВЈО	
TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO			REMOVE (9) ANTENNA(S), (6) TMA(s), AND (2) 1-5/8" COAX CABLE(S).	G-002	GENERAL NOTES	0	06/22/23	BJO	
THESE CODES.	COUNTY: COLUME		INSTALL (9) ANTENNA(S), (6) RRU(s), (2) OVP(s), (3) COMBINER(S),		OVERALL SITE DLAN	0	06/22/23	BJO	
2020 FLORIDA BUILDING CODE, 7TH EDITION ANSI/TIA-222-H	GEOGRAPHIC COORD		AND (2) 6x12 HYBRIFLEX CABLE(S).		C-001 OVERALL SITE PLAN				
7TH EDITION FLORIDA FIRE PREVENTION CODE (NFPA 70)	LATITUDE: 30.506		EXISTING (10) 1-5/8" COAX CABLE(S) TO REMAIN.	C-101	DETAILED SITE PLAN	0	06/22/23	BJO	
2017 NATIONAL ELECTRICAL CODE CITY/COUNTY ORDINANCES	LONGITUDE: -82.66	6652	GROUND WORK:	C-102	DETAILED EQUIPMENT LAYOUT	0	06/22/23	BJO	
5. GITT/GOUNTT ORDINANCES	GROUND ELEVATION: 1	21' AMSL	REMOVE (6) RRU(s), (1) BATTERY CABINET(S), (1) 6201 CABINET(S), (1) CDMA CABINET(S), (1) BATTERY RACK(S) AND (1) MCPA FRAME(S).	C-201	TOWER ELEVATION	0	06/22/23	ВЈО	
DESIGN CRITERIA FOR TOWER STRUCTUAL ANALYSIS:	ZONING INFORMATION: JURISDICTION: COLUMBIA COUNTY		INSTALL (1) GE NE-M -48 POWER PLANT(S), (2) -48 STRINGS HT200ET	C-401			06/22/23	ВЈО	
ULTIMATE WIND SPEED: 116 MPH SERVICE WIND SPEED: 60 MPH	PARCEL ID: 121N1601		BATTERY(IES), (1) 19" RACK(S) AND BASEBAND/ROUTER IN EXISTING 19" RACK(S).	C-501	CONSTRUCTION DETAILS	0	06/22/23	ВЈО	
RISK CATEGORY: II	DDO IFOT TE	A. D. A.		E-501 GROUNDING DETAILS		0	06/22/23	BJO	
EXPOSURE CATEGORY: B TOPOGRAPHIC CATGUT: 1	PROJECT TE	AM	NOTE: THIS CONSTRUCTION DRAWING SET IS NOT INTENDED TO	R-601	SUPPLEMENTAL				
INFORMATION PROVIDED BY PASSING STRUCTURAL	TOWER OWNER:	APPLICANT:	REPRESENT ANY ELECTRICAL DESIGN OTHER THAN THE GROUNDING SHOWN, OR TO BE USED TO OBTAIN AN ELECTRICAL	R-602	SUPPLEMENTAL				
ANALYSIS BY TELAMON CLS, DATED JUNE 7, 2021.	AMERICAN TOWER 10 PRESIDENTIAL WAY		PERMIT. AN ELECTRICAL PERMIT IS REQUIRED TO WIRE UP THE PROPOSED EQUIPMENT. ANY ELECTRICAL UPGRADES WILL BE	R-603	SUPPLEMENTAL				
	WOBURN, MA 01801		ENGINEERED AND PERMITTED IN A SEPARATE CONSTRUCTION DRAWING SET.	R-604	SUPPLEMENTAL				
UTILITY COMPANIES	ENGINEER:	PROPERTY OWNER:	PROJECT NOTES	R-605	SUPPLEMENTAL				
POWER COMPANY: SUWANNEE VALLEY ELEC COOP PHONE: (800) 447-4509		CARTER SARA JANE	THE FACILITY IS UNMANNED.						
TELEPHONE COMPANY: AT&T	PROFESSIONALS 177 NW MADISON ST 326 TRYON ROAD LAKE CITY, FL 32055	2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A							
PHONE: (800) 331-0500	RALEIGH, NC 27603-3530		MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND						
	PROJECT LOCATION	DIRECTIONS	DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.						
Always call 811 two full business days before you dig	IN FL ON I-10: TAKE EXIT 303 AND TRAVEL NORTH APP. 18.7 MILES TO TOWER ON THE RIGHT.		5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).						



326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net

FL COA#: 31011 ATC SITE NUMBER:

97139 ATC SITE NAME:

HIGHWAY 441 NORTH

VERIZON WIRELESS SITE NAME: HIGHWAY 441

SITE ADDRESS:

22535 N US HWY 441 WHITE SPRINGS, FL 32096-7100

REV.	DESCRIPTION	BY	DATE
\mathbb{A}_{-}	PRELIMINARY	SDD	05/03/23
<u> </u>	100% CONSTRUCTION	BJO	06/22/23
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DIGITAL/ELECTRONIC SEAL:
THIS ITEM HAS BEEN DIGITALLY SIGNED AND
SEALED BY JOSHUA H. CARDEN, P.E. ON THE
DATE ADJACENT TO THE SEAL.

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verizon /

DATE DRAWN:	06/22/23
ATC JOB NO:	13686693
CUSTOMER NAME:	HIGHWAY 441
CUSTOMER ID:	228804

TITLE SHEET

SHEET NUMBER:

G-001

GENERAL CONSTRUCTION NOTES:

- 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
- 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 VERIZON WIRELESS TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS
- DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING,
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES. GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC, BEFORE COMMENCING WORK
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON WIRELESS REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON WIRELESS REP PRIOR TO
- EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON WIRELESS REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET CONTRACTOR SHALL NOTIFY THE VERIZON WIRELESS REP AND ENGINEER OF RECORD
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH VERIZON WIRELESS AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS 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.

- OWNER FURNISHED MATERIALS, VERIZON WIRELESS "THE COMPANY" WILL PROVIDE AND 22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR
 - 23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON
 - CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - 25 ALL FOLIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS 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 VERIZON WIRELESS, REP A MINIMUM OF 48 HOLIRS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING
 - 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
 - 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. FITHER 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 VERIZON WIRELESS REP. ANY WORK FOUND BY THE VERIZON WIRELESS, 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
 - VERIZON WIRELESS FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WIRELESS VAREHOUSE, 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.
 - VERIZON WIRELESS 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 VERIZON WIRELESS OR THEIR

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON WIRELESS 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
- INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON WIRELESS 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.
- 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:
- ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OF

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.



326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net FL COA#: 31011

ATC SITE NUMBER

97139

ATC SITE NAME: **HIGHWAY 441 NORTH**

VERIZON WIRELESS SITE NAME:

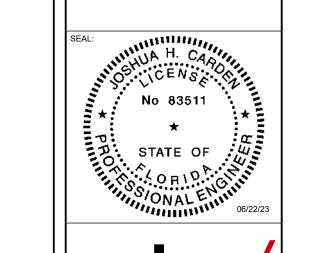
HIGHWAY 441 SITE ADDRESS:

22535 N US HWY 441 WHITE SPRINGS, FL 32096-7100

DESCRIPTION PRELIMINARY SDD 05/03/23 100% CONSTRUCTION BJO 06/22/23

DIGITAL/ELECTRONIC SEAL: THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA H. CARDEN, P.E. ON THE DATE ADJACENT TO THE SEAL.

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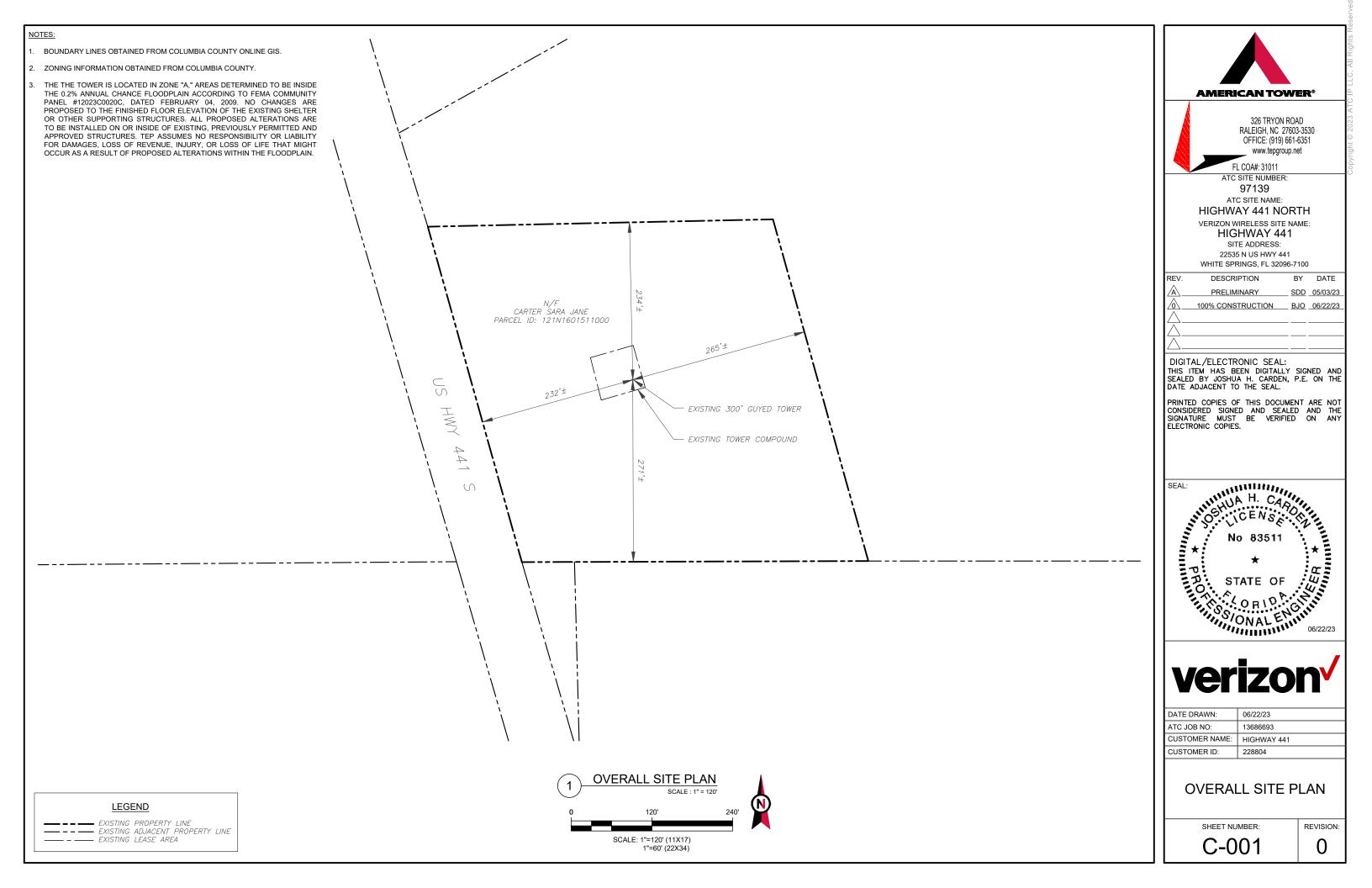


DATE DRAWN: 06/22/23 ATC JOB NO: 13686693 CLISTOMER NAME: HIGHWAY 441 CUSTOMER ID: 228804

GENERAL NOTES

SHEET NUMBER:

G-002



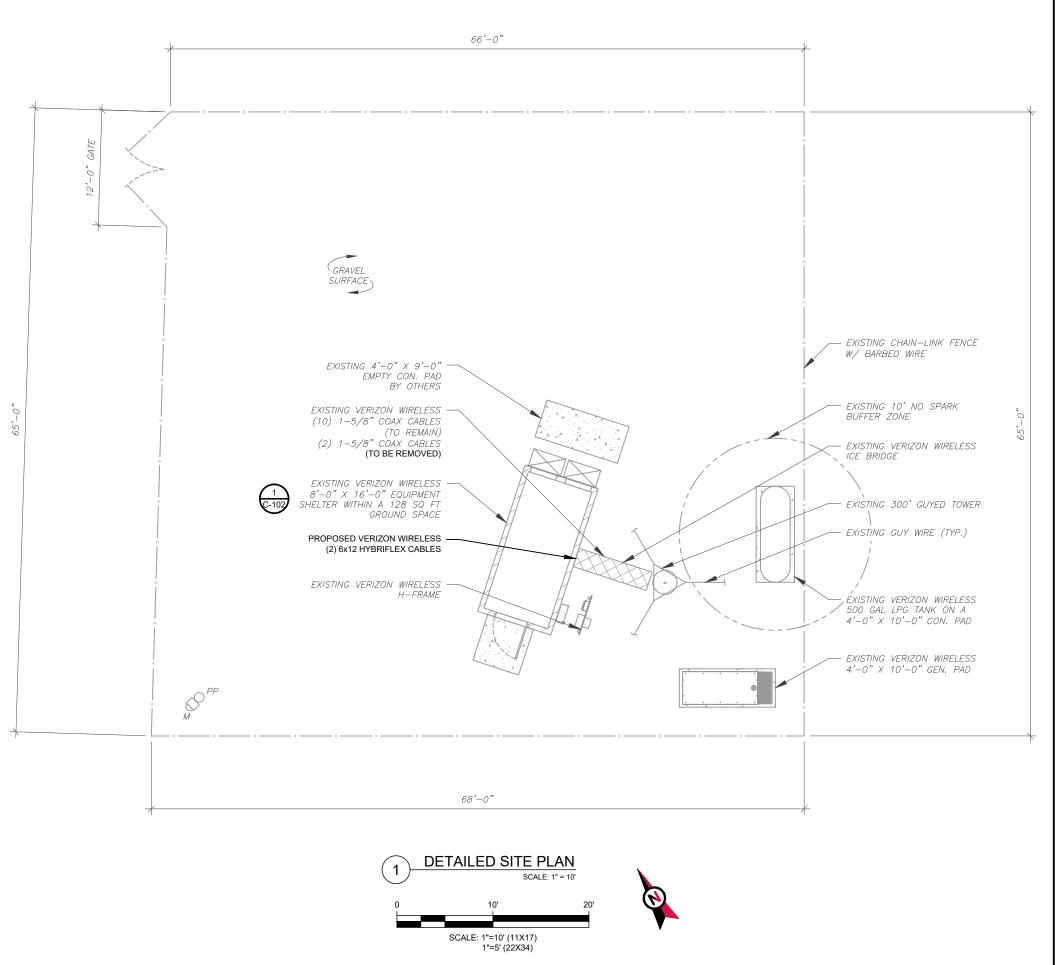
SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- 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 CONSTRUCTION DRAWING SET IS NOT INTENDED TO REPRESENT ANY ELECTRICAL DESIGN OTHER THAN THE GROUNDING SHOWN, OR TO BE USED TO OBTAIN AN ELECTRICAL PERMIT. AN ELECTRICAL PERMIT IS REQUIRED TO WIRE UP THE PROPOSED EQUIPMENT. ANY ELECTRICAL UPGRADES WILL BE ENGINEERED AND PERMITTED IN A SEPARATE CONSTRUCTION DRAWING SET

LEGEND
GROUNDING TEST WELL
AUTOMATIC TRANSFER SWITCH
BOLLARD
CELL SITE CABINET
DISCONNECT
ELECTRICAL
FIBER
GENERATOR
GENERATOR RECEPTACLE
HAND HOLE, VAULT
ICE BRIDGE
KENTROX BOX
LIGHTING CONTROL
METER
PULL BOX
POWER POLE
TELCO
TRANSFORMER
CHAINLINK FENCE

PROPOSED CABLE LENGTH:

- ESTIMATED LENGTH OF PROPOSED CABLE IS 350'.
 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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FL COA#: 31011 ATC SITE NUMBER:

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ATC SITE NAME:

HIGHWAY 441 NORTH VERIZON WIRELESS SITE NAME:

HIGHWAY 441

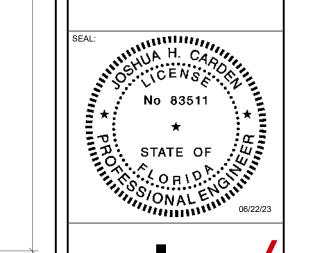
SITE ADDRESS: 22535 N US HWY 441

22535 N US HWY 441 WHITE SPRINGS, FL 32096-7100

REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIMINARY	SDD	05/03/23
<u> </u>	100% CONSTRUCTION	BJO	06/22/23
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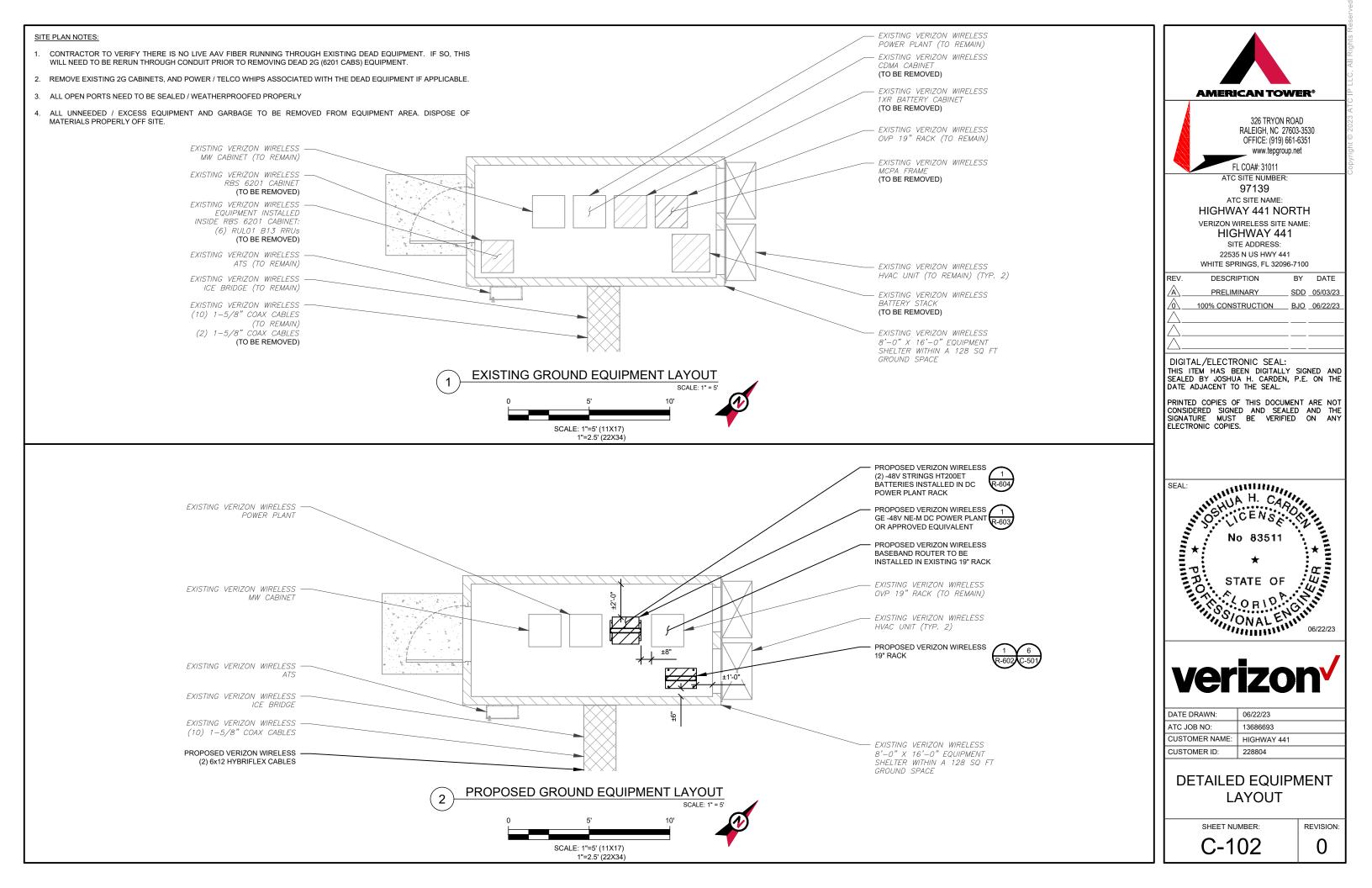


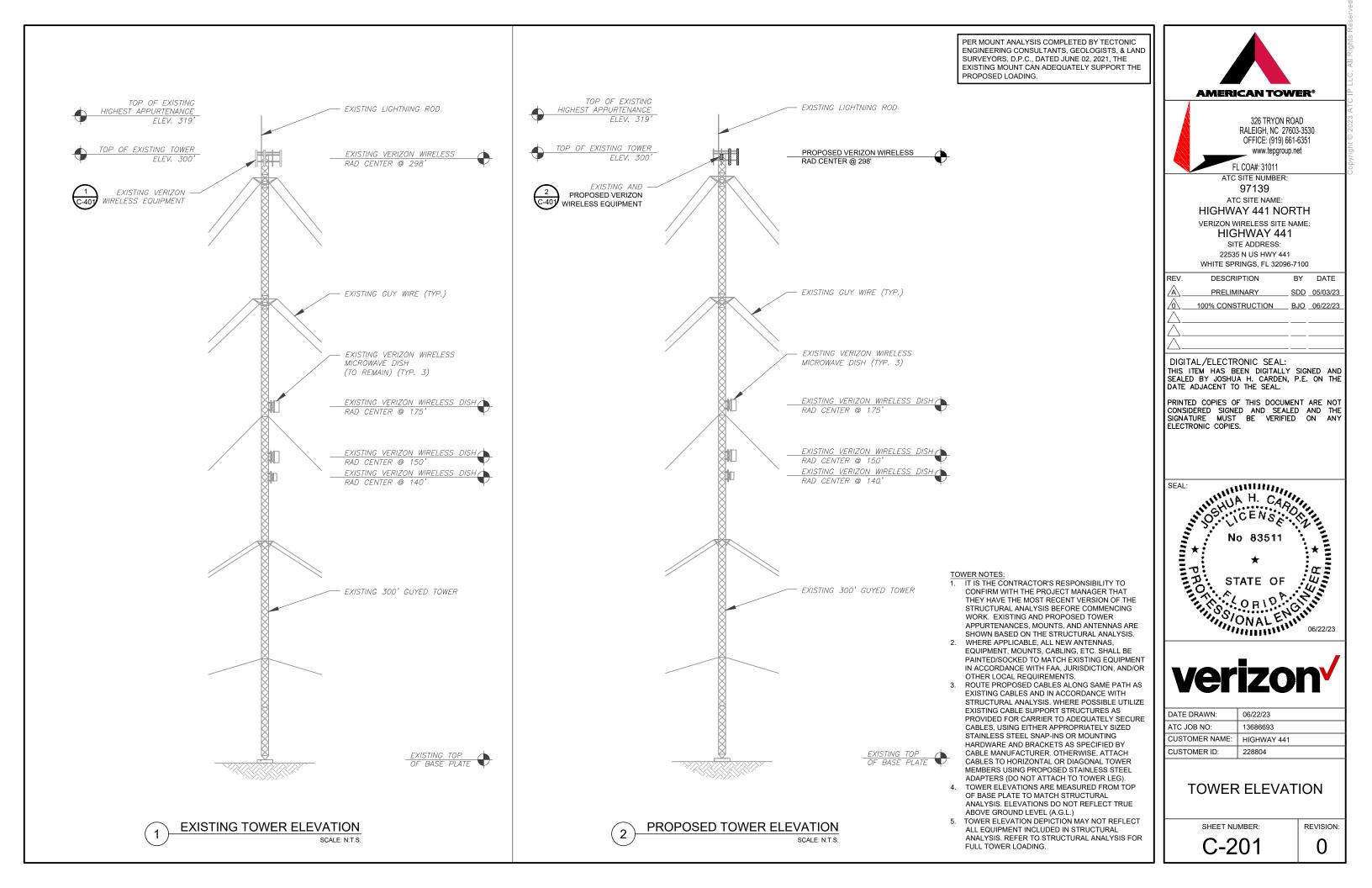
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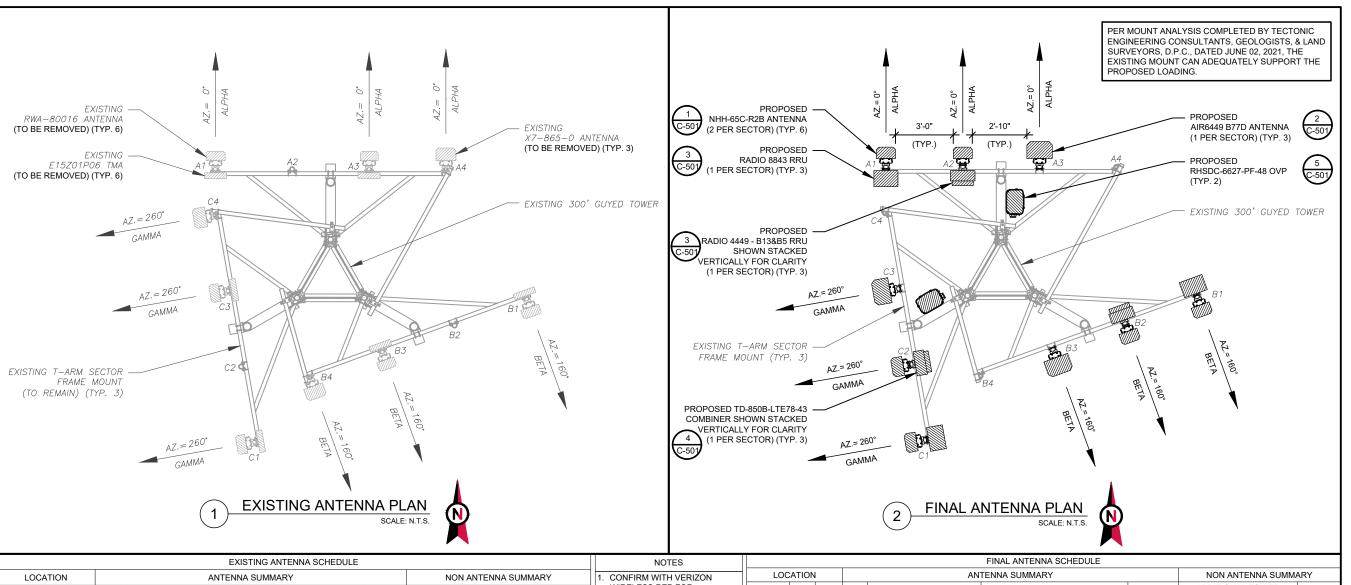
DETAILED SITE PLAN

SHEET NUMBER:

C-101







LOCATION NON ANTENNA SUMMARY SECTOR RAD AZ POS ANTENNA BAND STATUS ADDITIONAL TOWER MOUNTED EQUIPMENT STATUS ALPHA 4 1 RWA-80016 CDMA 850 RMV (1) E15Z01P06 RMV ALPHA 4 3 RWA-80016 CDMA 850 RMV (1) E15Z01P06 RMV		EXISTING ANTENNA SCHEDULE								
SECTOR RAD AZ POS ANTENNA BAND STATUS EQUIPMENT STATUS	LOC	CATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
ALPHA 298' 0° A2	SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS		STATUS	
ALPHA 298' 0°				A1	RWA-80016	CDMA 850	RMV	(1) E15Z01P06	RMV	
ALF THA 298 0 A3 RWA-80016 CDMA 850 RMV (1) E15Z01P06 RMV	AL DUA	000,	0.	A2	_	_	_	-	_	
	ALPHA	298 0		A3	RWA-80016	CDMA 850	RMV	(1) E15Z01P06	RMV	-
				A4	X7-865-0	LTE 700	RMV	_	-	
B1 RWA-80016 CDMA 850 RMV (1) E15Z01P06 RMV				B1	RWA-80016	CDMA 850	RMV	(1) E15Z01P06	RMV	١,
BETA 298' 160° B2	DETA	BETA 298'	160°	B2	-	-	_	-	_	`
BETA 290 100 B3 RWA-80016 CDMA 850 RMV (1) E15Z01P06 RMV	DETA		1700	В3	RWA-80016	CDMA 850	RMV	(1) E15Z01P06	RMV	
				B4	X7-865-0	LTE 700	RMV	_	-	
C1 RWA-80016 CDMA 850 RMV (1) E15Z01P06 RMV				C1	RWA-80016	CDMA 850	RMV	(1) E15Z01P06	RMV	lΓ
GAMMA 298' 260° C2	CAMMA		260°	C2	_	-	_	-	-	
GAIMMA 298 200 C3 RWA-80016 CDMA 850 RMV (1) E15Z01P06 RMV	GAIVINA	298	200	C3	RWA-80016	CDMA 850	RMV	(1) E15Z01P06	RMV	
C4 X7-865-0 LTE 700 RMV — —				C4	X7-865-0	LTE 700	RMV	_	_	

NOTES 1. CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE	
WIRELESS REP FOR APPLICABLE	
APPLICABLE	
UPDATES/REVISIONS AND	
MOST RECENT RFDS FOR NS	
CONFIGURATION (CONFIG). G	
TO CAP ALL UNUSED PORTS.	
2. CONFIRM SPACING OF	
PROPOSED EQUIP DOES NOT	Γ
CAUSE TOWER CONFLICTS	
NOR IMPEDE TOWER CLIMBIN	١G
PEGS.	
3. TEP DID NOT VERIFY THE	
EXISTING LOADING. LOADING	-
DATA PROVIDED BY ATC AND)
VERIZON WIRELESS.	

VERIZON WIRELESS.
STATUS ABBREVIATIONS
RMV: TO BE REMOVED RMN: TO REMAIN REL: TO BE RELOCATED
VDD∙ TO BE VDDED

LOC	AHON	N.		AN	I EININA SUIVIIVIAN I		INOIN AINTEININA SUIVIIVI	ANI
SECTOR	RAD	AZ	POS	OS ANTENNA BAND STATUS		ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
			A1	NHH-65C-R2B	LTE 700/LTE 850/LTE AWS/ LTE AWS3/CDMA 850/5G 850	ADD	(1) RADIO 8843	ADD
ALPHA	298'	0°	A2	NHH-65C-R2B	LTE 700/LTE 850/LTE AWS/ LTE AWS3/CDMA 850/5G 850	ADD	(1) TD-850B-LTE78-43 (1) RADIO 4449 - B13&B5	ADD ADD
			A3	AIR6449 B77D	5G L-SUB6	ADD	-	-
			A4	-	-	-	-	-
BETA 298' 160	8' 160°	B1	NHH-65C-R2B	LTE 700/LTE 850/LTE AWS/ LTE AWS3/CDMA 850/5G 850	ADD	(1) RADIO 8843	ADD	
		B2	NHH-65C-R2B	LTE 700/LTE 850/LTE AWS/ LTE AWS3/CDMA 850/5G 850	ADD	(1) TD-850B-LTE78-43 (1) RADIO 4449 - B13&B5	ADD ADD	
				В3	AIR6449 B77D	5G L-SUB6	ADD	-
			B4	-	-	-	-	-
			C1	NHH-65C-R2B	LTE 700/LTE 850/LTE AWS/ LTE AWS3/CDMA 850/5G 850	ADD	(1) RADIO 8843	ADD
GAMMA	298'	260°	C2	NHH-65C-R2B	LTE 700/LTE 850/LTE AWS/ LTE AWS3/CDMA 850/5G 850	ADD	(1) TD-850B-LTE78-43 (1) RADIO 4449 - B13&B5	ADD ADD
			С3	AIR6449 B77D	5G L-SUB6	ADD	-	-
			C4	_	_	_	_	_

CABLE LENGTHS FOR JUMPERS

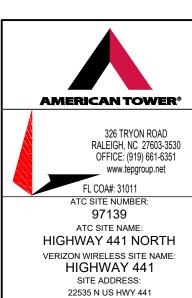
JUNCTION BOX TO RRU: 15'

RRU TO ANTENNA: 10'

EXISTING FIBER DISTRIBUTION/O	/P BOX	EXISTIN	NG CABLING SUMMARY	
MODEL NUMBER	STATUS	COAX	HYBRIFLEX	STATUS
-	_	(10) 7/8"	-	REL
-	_	(2) 1-5/8"	-	RMV

1	2	EQUIPMENT SCHEDULES
\	્ડ	

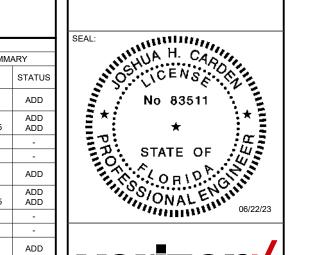
FINAL FIBER DISTRIBUTION / OVE	FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	HYBRIFLEX	STATUS
-	-	(10) 7/8"	-	RMN
(2) RHSDC-6627-PF-48	ADD	-	(2) 6x12	ADD



WHITE SPRINGS, FL 32096-7100

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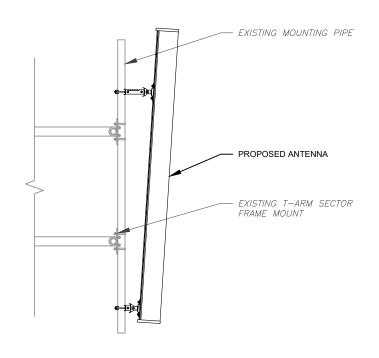


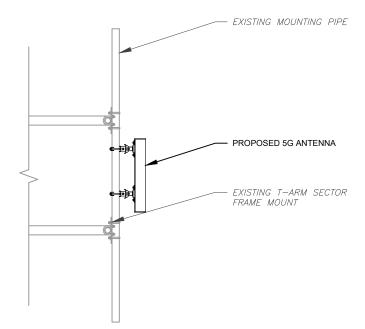


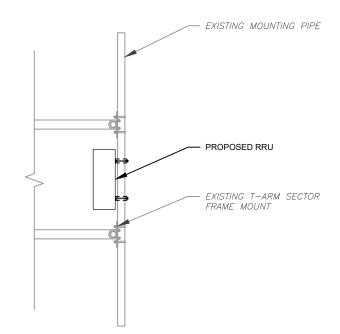
1		
l	DATE DRAWN:	06/22/23
l	ATC JOB NO:	13686693
l	CUSTOMER NAME:	HIGHWAY 441
l	CUSTOMER ID:	228804

ANTENNA INSTALLATION AND SCHEDULE

SHEET NUMBER:





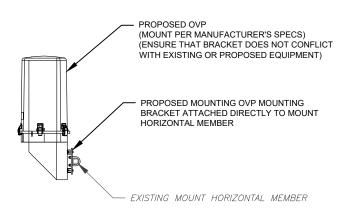


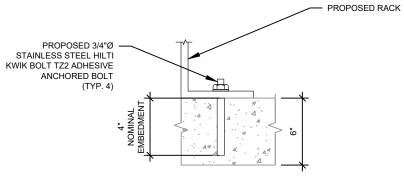
PROPOSED ANTENNA MOUNTING DETAIL

PROPOSED 5G ANTENNA MOUNTING DETAIL

PROPOSED RRU MOUNTING DETAIL SCALE: N.T.S.

EXISTING MOUNTING PIPE PROPOSED COMBINER EXISTING T-ARM SECTOR FRAME MOUNT





NOTES:

1. INSTALL HILTI KWIK BOLT TZ2 ANCHOR(S) STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.US.HILTI.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

2. SEE C-102 SHEET FOR SPACING AND PLACEMENT OF PROPOSED RACK.

PROPOSED COMBINER MOUNTING DETAIL

PROPOSED OVP MOUNTING DETAIL

PROPOSED RACK ATTACHMENT DETAIL

SCALE: N.T.S.



326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net

FL COA#: 31011 ATC SITE NUMBER:

97139

ATC SITE NAME:

HIGHWAY 441 NORTH

VERIZON WIRELESS SITE NAME: HIGHWAY 441

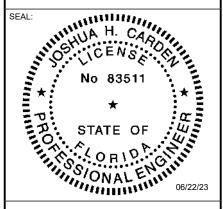
SITE ADDRESS:

22535 N US HWY 441 WHITE SPRINGS, FL 32096-7100

REV.	DESCRIPTION	BY	DATE
<u> </u>	PRELIMINARY	SDD	05/03/23
△_	100% CONSTRUCTION	BJO	06/22/23
\triangle _			
\triangle _			
\triangle _			

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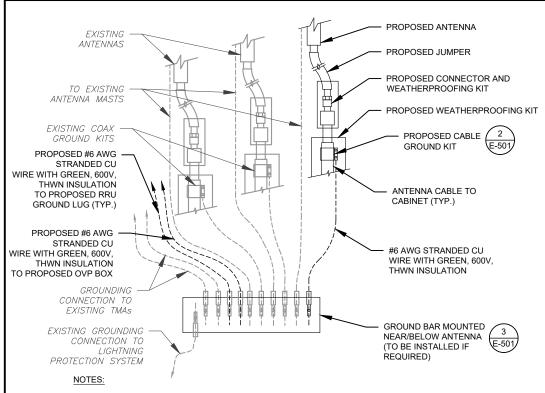


DATE DRAWN:	06/22/23
ATC JOB NO:	13686693
CUSTOMER NAME:	HIGHWAY 441
CUSTOMER ID:	228804

CONSTRUCTION **DETAILS**

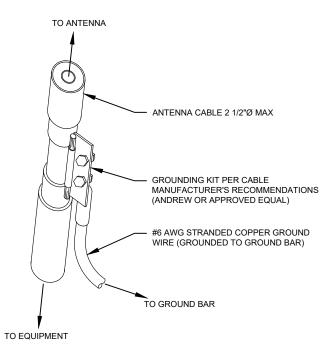
SHEET NUMBER:

C-501



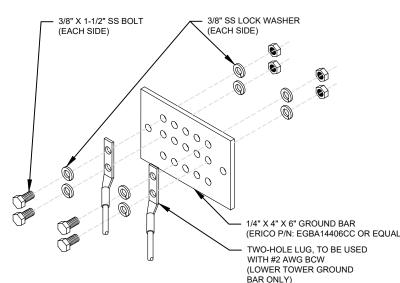
- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS
- SITE GROUNDING SHALL COMPLY WITH VERIZON WIRELESS GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON WIRELESS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY

TYPICAL ANTENNA GROUNDING DIAGRAM



- 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.

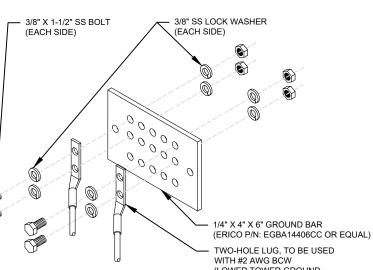




GROUND BAR NOTES:

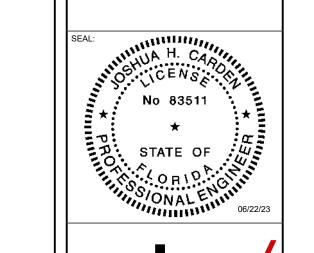
GROUND BAR KITS COME WITH ALL HARDWARE NUTS BOLTS WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).





2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.





AMERICAN TOWER®

FL COA#: 31011

ATC SITE NUMBER:

97139

ATC SITE NAME: **HIGHWAY 441 NORTH**

VERIZON WIRELESS SITE NAME:

HIGHWAY 441

22535 N US HWY 441

WHITE SPRINGS, FL 32096-7100

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SDD 05/03/23

BJO _06/22/23

DESCRIPTION

PRELIMINARY

100% CONSTRUCTION

DIGITAL/ELECTRONIC SEAL:

DATE ADJACENT TO THE SEAL.

SITE ADDRESS:

326 TRYON ROAD

RALEIGH, NC 27603-3530

OFFICE: (919) 661-6351

www.tepgroup.net

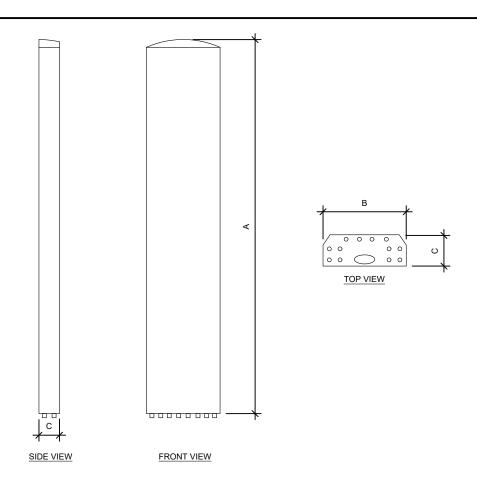


DATE DRAWN:	06/22/23
ATC JOB NO:	13686693
CUSTOMER NAME:	HIGHWAY 441
CUSTOMER ID:	228804

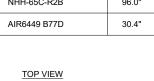
GROUNDING DETAILS

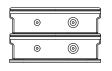
SHEET NUMBER:

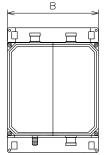
E-501

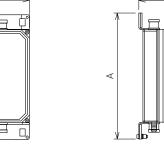


ANTENNA SPECIFICATIONS					
ANTENNA MODEL	А	В	С	WEIGHT (LBS)	
NHH-65C-R2B	96.0"	11.9"	7.1"	51.6	
AIR6449 B77D	30.4"	15.9"	10.6"	81.6	









FRONT VIEW

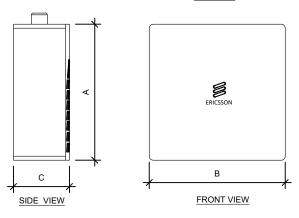
SIDE VIEW

COMBINER SPECIFICATIONS				
COMBINER MODEL A B C WEIGH (LBS)				
TD-850B-LTE78-43	15.4"	15.3"	6.4"	53.0

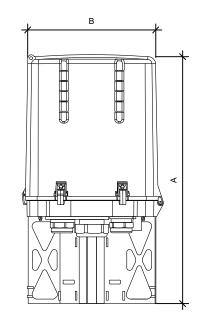


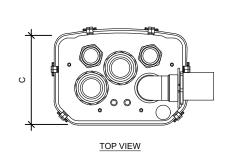


TOP VIEW



RRU SPECIFICATIONS				
RRU MODEL	А	В	С	WEIGHT (LBS)
RADIO 8843	28.0"	15.0"	10.0"	85.0
RADIO 4449 - B13&B5	15.0"	13.2"	9.3"	70.0





FRONT VIEW

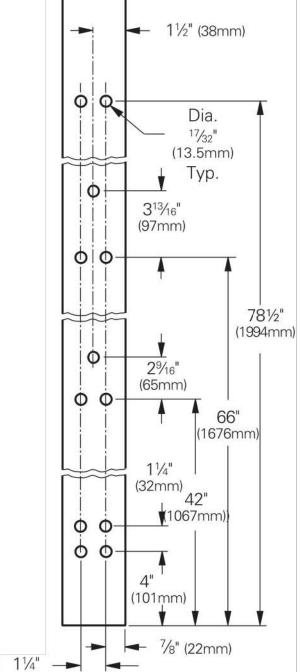
OVP SPECIFICATIONS				
OVP MODEL	А	В	С	WEIGHT (LBS)
RHSDC-6627-PF-48	29.5"	16.5"	12.6"	32.0

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SHEET NUMBER:

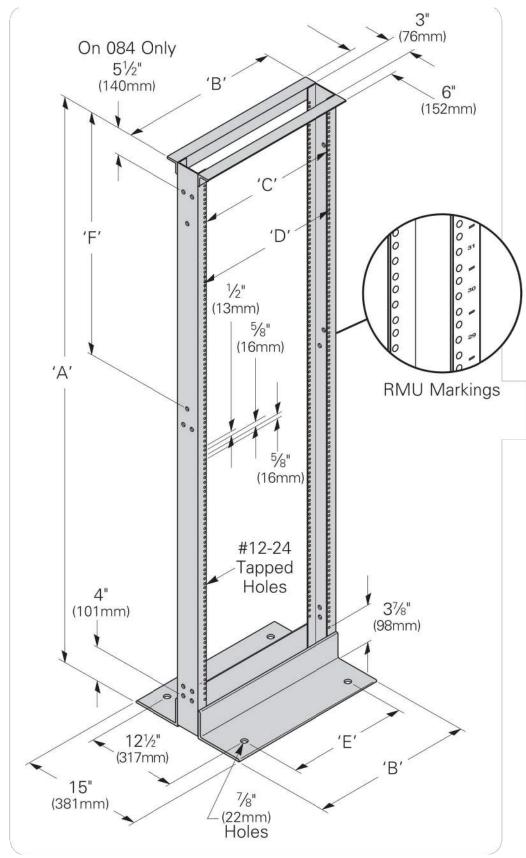
R-601

Junction Hole Pattern for 84" tall rails



(32mm)





PROPOSED 19" RACK DETAIL

SUPPLEMENTAL

SHEET NUMBER:

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

R-602



Infinity M HC Power System

Dual Voltage Capable, Rack Mounted **Power System**



Overview

The GE Infinity M DC energy system is a modular power plant that supports dual voltage (+24V/-48V) operation through the use of a comprehensive range of advanced rectifiers and DC-DC converters. Primary voltage is supported by rectifiers and battery reserve, while secondary voltage is supported by DC-DC converter modules. Primary voltage can be -48V or +24V.

The Infinity M Power System has primary voltage capacity for +24V and -48V power up to 2,100A; secondary voltage capacity is up to 600A per expansion module.

Shelf / Bay Options

Infinity M systems may be equipped in a 7ft 23" relay rack; a half height rack for mounting on battery stands; indoor or outdoor power cabinets; or mounting rails for field install applications. The distribution module is either 10U (17.5"), 14U (24.5") or 18U (31.5") tall and accommodates up to 104 single voltage or selectable voltage bullet breaker positions or up to 24 Large Breaker positions that support GJ style breakers and TPL Fuses. Universal shelves are 1U tall with four slots that accept any Infinity series rectifier or converter interchangeably in any power slot. This

allows the available slots to be filled with the mix of power modules desired. The only restriction is whether AC power is applied to the shelf. This gives extreme flexibility in the provisioning of power modules within the system.

Infinity Rectifier and Converter Family

The Infinity Series offers DC rectifiers and converters for both +24V to -48V and -48V to +24V applications. For easy module selection, the rectifiers and converters are color coded to quickly identify voltage, module type and input voltage type (AC or DC).

Galaxy Pulsar* Plus Controller

The Galaxy Pulsar Plus is used throughout many of the GE DC Power products including GPS, Infinity, CP, and SPS with the only differentiator being the form factor which is scaled to meet the nature of the application. The controller utilizes secure network management protocols allowing for advanced network supervision with SNMP communications to deliver extensive monitoring and control features with both local and remote access.

Galaxy Millennium* II Controller

The Galaxy Millennium II controller combines sophisticated power monitoring and secure remote management. This flagship controller simplifies operations and maintenance while lowering administrative costs. Remote peripheral modules support over 500 monitoring points for GJ, TPL and Bullet Breaker current monitoring as well as external GE or third party devices. Ethernet, SNMP Modbus, and TL1 provide integration with power engineering and NOC workflow.

Advantages

- Dual Voltage power system with ultimate flexibility
- -48V up to 2100amps and expandable to 4200amp with Supplemental bay
- Secondary voltage up to 600A
- · High availability applications
- Hardened for extreme environments
- · Efficiency approaching 97%

SUPPLEMENTAL

R-603



Nominal Voltage: 12-Volts

Rating: 190 Ampere-Hours @ 8 hr. rate to 1.75 V.P.C.

Positive Plate: Pure lead, low-calcium, high-tin alloy

Negative Plate: Lead calcium alloy

Post Seal: Epoxy-sealed

Terminal: Front access, 1/4" - 20 threaded insert

Case/Cover: Flame-retardant, THT™ – UL 94 V-0/>39% L.O.I.

Catalyst: Microcat®

Safety Vent: Low positive pressure,

self-sealing w/ flame arrestor

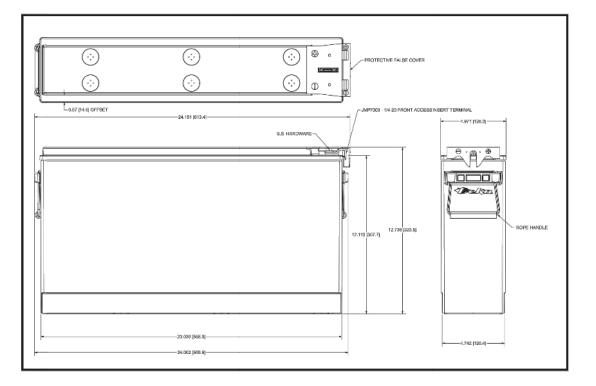
Float Voltage: 2.25 V.P.C. ± 0.01 V.P.C. (Range: 13.44V to 13.56V per battery)

Design life: 10 years in float applications at 95°F (35°C)

Dimensions: Length - 24.15" (613.4 mm) Width - 4.97" (126.3 mm) Height - 12.73" (323.4 mm)

Weight: 151 lbs. (68.5 kg)

Volts Per Cell (V.P.C.)	1 HR.	2 HR.	3 HR.	4 HR.	5 HR.	8 HR.	12 HR.	20 HR.	24 HR
1.75	144	82	57.3	44.4	36.4	23.5	16.3	10.1	8.4
1.80	136	79.1	55.4	43.1	35.4	23.2	16.0	9.9	8.3
1.85	124	73.1	51.9	40.6	33.5	22.1	15.2	9.4	7.9
1.88	113	68	48.7	38.3	31.7	21.0	14.5	9.0	7.6
1.90	105	63.9	46.2	36.4	30.1	20.0	13.9	8.6	7.2



INSTALLATION AND OPERATING INSTRUCTIONS

• http://www.eastpennmanufacturing.com/wp-content/uploads/Fahrenheit-IO-Manual-2100.pdf









East Penn Manufacturing Co. Lyon Station, PA 19536-0147 Phone: 610-682-3263 Fax: 610-682-0891 e-mail: reservepowersales@dekabatteries.com

www.dekabatteries.com

E.P.M. Form No. 2201 2/16 © 2016 by EPM Printed in U.S.A.

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PROPOSED BATTERY DETAILS

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SUPPLEMENTAL

SHEET NUMBER:

REVISION:

R-604





Tectonic Engineering Consultants, Geologists, & Land Surveyors, D.P.C.
1279 Route 300
Newburgh, NY 12550
(845)567-6656
TecVZWOrders@tectonicengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10071297 Tectonic Project #:10880.119

June 2, 2021

<u>Site Information</u> Site ID: 228804-VZW / HIGHWAY 441

Site Name: HIGHWAY 441
Carrier Name: Verizon Wireless
Address: SR-6 Hwy 441

White Springs, Florida 32055, Columbia County

Latitude: 30.506667° Longitude: -82.666389°

Structure Information Tower Type: 300-Ft Guyed

Mount Type: 12.50-Ft Sector Frame

FUZE ID # 16276872

Analysis Results

Sector Frame: 78 % Pass

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com

Contractor - Please Review Specific Site PMI Requirements Upon Award Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Ian Marinaccio / William LaPorte

Edward Martella Edward Martella 2021.06.02 18:10:38 No. PE71995

Mount Post-Modification Analysis Report (3) 12.50-Ft Sector Frames

June 2, 2021 Site ID: 228804-VZW / HIGHWAY 441 Page | 4

- All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Tectonic is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
- Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:

Channel, Solid Round, Angle, Plate
HSS (Rectangular)
Pipe
Threaded Rod
Bolts

ASTM A36 (Gr. 36)
ASTM 500 (Gr. B-46)
ASTM A53 (Gr. B-35)
F1554 (Gr. 36)
ASTM A325

Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Tectonic.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	76 %	
Standoff Vertical	7 %	
Standoff Horizontal	33 %	
Mount Pipe	65 %	Pass
Tieback	29 %	
VZWSMART-SFK3 V-Bracing Kit	30 %	
Tower Connection	78 %	

Structure Rating – (Controlling Utilization of all Components)	78 %
--	------

Recommendation:

The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

- 1. Mount Photos
- 2. Mount Mapping Report (for reference only)
- 3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables
- 5. Antenna Placement Diagrams

MOUNT ANALYSIS

SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

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