Robinson+Cole

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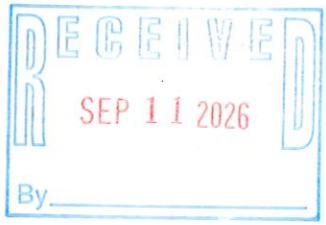
Also admitted in Massachusetts and Vermont

September 9, 2026

Via Electronic and U.S. Mail

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **Notice of Exempt Modification – Facility Modification**
911 Route 32, Montville, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of a single cannister antenna and a remote radio head attached to a telecommunications tower and associated equipment on the ground near the base of the tower. The Town of Montville issued Building Permit No. B2012-0054 on February 21, 2012 for the existing tower. Cellco's shared use of the tower was approved by the Council on July 18, 2016 (PE1133-VER-20160615). Copies of Building Permit No. B2012-0054 and Sub-Petition PE1133-VER-20160615 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing one (1) antenna and one (1) remote radio head ("RRHs") and installing one (1) new antenna and two (2) RRHs on a new antenna mounting structure. The height of the antenna will remain the same. A set of project plans showing Cellco's proposed facility modifications and the specifications for Cellco's new antennas and RRHs are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Montville's Chief Elected Official and Land Use Director. The Town is the owner of the Property. A copy of this letter is also being sent to Landmark Infrastructure Holding Company LLC, the owner of the tower.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's new antennas will be installed at the same height on the tower.

2. The proposed modifications will not require the extension of the project site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of Cellco's new cannister antenna and RRH will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Included in Attachment 3 is a Calculated Radio Frequency Emission Report demonstrating that the proposed modified facility will comply with the FCC safety standards. The modified facility will be capable of providing Cellco's 5G wireless service.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis Report ("SA") and Replacement Antenna Mount Analysis Report ("MA") the existing tower, foundation and new antenna mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Jonathan H. Schaefer

Enclosures
Copy to:
Leonard G. Bunnell Sr., Mayor
Dennis Goderre, PLA, AICP CUD, Land Use Director
Landmark Infrastructure Holding Company, LLC, Tower Owner
Audra Maher, SAI Group, via email
Charity Sullivan, Verizon Wireless, via email

ATTACHMENT 1

TOWN OF MONTVILLE

Building Department

310 NORWICH-NEW LONDON TURNPIKE

UNCASVILLE, CT 06382-2599

TEL. (860) 848-3030 X382 FAX. (860) 848-7231

BUILDING PERMIT

Permit Number: B2012-0054 Date: 21-Feb-12 Map/Lot: 083/029-000 Owner ID: 6675000

Project Location: 911 ROUTE 32 **Unit:**

Job Description: 10x12 Block Building, 140' Self Supporting Steel Radio Tower

Owner Nam Town Of Montville
Careof:
310 Norwich N L Tpke
Uncasville CT 06382-

Tenant Name N/A
Telephone:

Contractor Nam Marcia Viaun
DBA: Town of Montville
310 Route 32
Uncasville CT 06382-

Telephone:
Lic/Reg Type
Lic/Reg N 0
Exp Date:

Construction Value		Permit Fees		Construction Information
Building Value:	$101,545.00	Building Fee:	$0.00	Use Group: U
Plumbing Value:	$0.00	Plumbing Fee:	$0.00	Code: 2005 State Building Code
Mechanical Valu	$500.00	Mechanical Fe	$0.00	
Electrical Value:	$5,000.00	Electrical Fee:	$0.00	Construction Type 2B
Total Value:	$107,045.00	Penalty Fee:	$0.00	Permit Code: C5
		C of O Fee:	$0.00	Comment
		Plan Review Fe	$0.00	
		State Ed Fee:	$27.84	
		Total Fee Paid:	$27.84	

It shall be the owners repsonsibility to schedule the following inspections a minimum of 2 business days in advance:

Field set of approved construction documents shall be available onsite during all inspections.

BUILDING PERMIT INSPECTIONS

- ☐ Footing - Prior to pouring concrete
- ☐ Deck Piers
- ☐ Backfill - Footing drains and waterproofing
- ☐ Concrete Slab - Prior to pouring concrete
- ☐ Anchor Bolts - with sill plate and prior to floor frami
- ☐ Framing
- ☐ Masonry Fireplace Throat or Chimney Thimble
- ☐ Fireblocking Draftstopping
- ☐ Insulation

PLUMBING, MECHANICAL, ELECTRICAL PERMIT INSPECTIONS

- ☐ R Plumbing and leak test
- ☑ R Electrical
- ☐ Elec Trench - with conduit installed
- ☐ Pool Bonding
- ☐ Electrical Service CRS No: 0
- ☑ R HVAC
- ☐ Gas Piping and leak test

INSPECTION REQUIRED UPON COMPLETION

- ☐ Certificate of Approval
- ☑ Certificate of Occupancy

Building Official's Approval:

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

July 18, 2016

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **PE1133-VER-20160615** – Cellco Partnership d/b/a Verizon Wireless sub-petition for a declaratory ruling for approval of an eligible facility request for modifications to an existing telecommunications facility located at 911 Route 32, Montville, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby approves your Eligible Facilities Request (EFR) to install antennas and associated equipment at the above-referenced facility pursuant to the Federal Communications Commission Wireless Infrastructure Report and Order, with the following conditions:

1. All coax cables shall be routed as specified in Section 3 of the structural analysis report performed by Centek Engineering dated October 20, 2015 and stamped by Timothy Lynn;
2. Within 45 days following completion of equipment installation, Cellco shall provide documentation that its installation complied with the recommendations of the structural analysis;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. The Petitioner may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the EFR dated June 15, 2016.

Thank you for your attention and cooperation.

Very truly yours,

Melanie Bachman
Acting Executive Director

MB/CW

c: Honorable Ronald K. McDaniel, Mayor, Town of Montville
Marcia A. Vlaun, Town Planner, Town of Montville

S:\PETITIONS\1101-1200\1133\3_Subpetitions_ByTown\Montville\PE1133-VER-20160615-ddtn-Route32-Montville.docx

ATTACHMENT 2

verizon

UNCASVILLE CT SC 2
SITE ID: 17037883
911 ROUTE 32
MONTVILLE, CT 06353

GENERAL NOTES AND SPECIFICATIONS

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2022 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-222 REVISION "H" "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES." 2022 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE AND LOCAL CODES.
2. SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
3. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
4. BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AT OR CONTIGUOUS TO THE SITE, WHICH MAY AFFECT PERFORMANCE AND COST OF THE WORK.
5. ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SURFACE, AND SUBSURFACE CONDITIONS ARE APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS AND ANGLES WITH EXISTING CONDITIONS AND WITH ARCHITECTURAL AND SITE DRAWINGS BEFORE PROCEEDING WITH ANY WORK.
6. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS WHICH ARE IN CONFLICT OR OTHERWISE NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS, AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
7. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
8. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
9. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL, AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
10. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND ENSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
11. LOCATION OF EQUIPMENT AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
12. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
13. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
14. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
15. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
16. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
17. ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO "EXTRA" WILL BE ALLOWED FOR MISSED ITEMS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
19. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
20. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
21. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUITS AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND CONFIRMED WITH THE PROJECT MANAGER AND OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK
22. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
23. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
24. CONTRACTOR SHALL COMPLY WITH THE OWNER'S ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.
25. THE COUNTY/CITY/TOWN MAY MAKE PERIODIC FIELD INSPECTIONS TO ENSURE COMPLIANCE WITH THE DESIGN PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS.
26. THE COUNTY/CITY/TOWN MUST BE NOTIFIED (2) WORKING DAYS PRIOR TO CONCEALMENT/BURIAL OF ANY SYSTEM OR MATERIAL THAT WILL PREVENT THE DIRECT INSPECTION OF MATERIALS, METHODS OR WORKMANSHIP. EXAMPLES OF THESE PROCESSES ARE BACKFILLING A GROUND RING OR TOWER FOUNDATION, POURING TOWER FOUNDATIONS, BURYING GROUND RODS, PLATES OR GRIDS, ETC. THE CONTRACTOR MAY PROCEED WITH THE SCHEDULED PROCESS (2) WORKING DAYS AFTER PROVIDING NOTICE UNLESS NOTIFIED OTHERWISE BY THE COUNTY/CITY/TOWN.
27. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER ON RECORD, PRIOR TO THE COMMENCEMENT OF ANY WORK.

SITE LOCATION

NTS

PROJECT SUMMARY

1. THE PROPOSED UPGRADE SCOPE OF WORK AT THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY GENERALLY INCLUDES THE FOLLOWING:
   - INSTALL (1) PROPOSED COMMSCOPE NNVV54-360S-8F2 ANTENNA
   - INSTALL (1) PROPOSED SAMSUNG RF4461d-13A RADIO
   - INSTALL (1) PROPOSED SAMSUNG RT-8808-77A RADIO
   - INSTALL (2) SITEPRO1: TLS-U ANTENNA MOUNTS AND ASSOCIATED PIPE MASTS AND CONNECTIONS. REFER TO REPLACEMENT ANTENNA MOUNT ANALYSIS REPORT PREPARED BY COLLIERS ENGINEERING & DESIGN (PROJECT # 26777098) DATED 07/20/26 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
   - REMOVE EXISTING NH65PS-DG-FDM ANTENNA
   - REMOVE (1) EXISTING NOKIA UHIC B4 RRH 2x60-4R RADIO (AT GRADE)
   - RETAIN (1) 2x4 HYBRIFLEX CABLE
   - RELOCATE ONTO NEW ANTENNA MOUNT (1) RRFDC-1064-PF-48

PROJECT INFORMATION

SITE NAME:	UNCASVILLE CT SC 2
SITE ADDRESS:	911 ROUTE 32 MONTVILLE, CT 06353
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
CONTACT PERSON:	ANDREW LEONE STRUCTURE CONSULTING GROUP (617) 620-4175
ENGINEER:	CENTEK ENGINEERING, INC. 63-2 NORTH BRANFORD RD. BRANFORD, CT 06405 (203) 488-0580
PROJECT COORDINATES:	LATITUDE: 41°-27'-4.434" N LONGITUDE: 72°-06'-18.781" W GROUND ELEVATION: ±60.0' A.S.M.L SITE COORDINATES AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH AND VERIZON WIRELESS RFDS SHEET

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	0
N-1	NOTES AND SPECIFICATIONS	0
C-1	SITE/PARTIAL SITE PLANS	0
C-2	EQUIPMENT PLAN AND TOWER ELEVATION	0
C-3	ANTENNA SECTOR CONFIGURATION DETAILS	0
RF-1	RF EQUIPMENT DETAILS	0
RF-2	RF PLUMBING DIAGRAM	0
E-1	ELECTRICAL DETAILS AND SPECIFICATIONS	0

REV	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
0	07/30/26	ZNH	LB	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
A	07/07/26	ZNH	LB	CONSTRUCTION DRAWINGS - ISSUED FOR CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
Centered on Solutions
(203) 488-0580
63-2 North Branford Road, Branford, CT 06405
www.CentekEng.com

VERIZON WIRELESS

UNCASVILLE CT SC 2
911 ROUTE 32
MONTVILLE, CT 06353

DATE: 07/30/2026
SCALE: AS NOTED
JOB NO. 250393.00

TITLE SHEET

T-1

Sheet No. 1 of 8

NOTES AND SPECIFICATIONS:

DESIGN BASIS:

GOVERNING CODE: 2021 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY THE 2022 CONNECTICUT STATE BUILDING CODE.

1. DESIGN CRITERIA:

- RISK CATEGORY III (BASED ON IBC TABLE 1604.5)
- ULTIMATE DESIGN SPEED: 135 MPH (V_{ULT})
  (EXPOSURE C/ IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-16).

SITE NOTES

1. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. ACTIVE EXISTING UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY, PRIOR TO PROCEEDING, SHOULD ANY UNCOVERED EXISTING UTILITY PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE AREAS OF THE COMPOUND DISTURBED BY THE WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
4. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
5. IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL PROCEED WITH AFFECTED WORK AFTER CONFLICT IS SATISFACTORILY RESOLVED.

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2022 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-222 REVISION "H" "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES." 2022 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE AND LOCAL CODES.
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21. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUITS AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND CONFIRMED WITH THE PROJECT MANAGER AND OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK
22. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
23. THE CONTRACTOR SHALL CONTACT 'CALL BEFORE YOU DIG' AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
24. CONTRACTOR SHALL COMPLY WITH THE OWNER'S ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.
25. THE COUNTY/CITY/TOWN MAY MAKE PERIODIC FIELD INSPECTIONS TO ENSURE COMPLIANCE WITH THE DESIGN PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS.
26. THE COUNTY/CITY/TOWN MUST BE NOTIFIED (2) WORKING DAYS PRIOR TO CONCEALMENT/BURIAL OF ANY SYSTEM OR MATERIAL THAT WILL PREVENT THE DIRECT INSPECTION OF MATERIALS, METHODS OR WORKMANSHIP. EXAMPLES OF THESE PROCESSES ARE BACKFILLING A GROUND RING OR TOWER FOUNDATION, POURING TOWER FOUNDATIONS, BURYING GROUND RODS, PLATES OR GRIDS, ETC. THE CONTRACTOR MAY PROCEED WITH THE SCHEDULED PROCESS (2) WORKING DAYS AFTER PROVIDING NOTICE UNLESS NOTIFIED OTHERWISE BY THE COUNTY/CITY/TOWN.
27. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER ON RECORD, PRIOR TO THE COMMENCEMENT OF ANY WORK.

REV	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	07/30/26	ZDS	LJS	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
	06/01/26	ZDS	LJS	CONSTRUCTION DRAWINGS - ISSUED FOR CLIENT REVIEW

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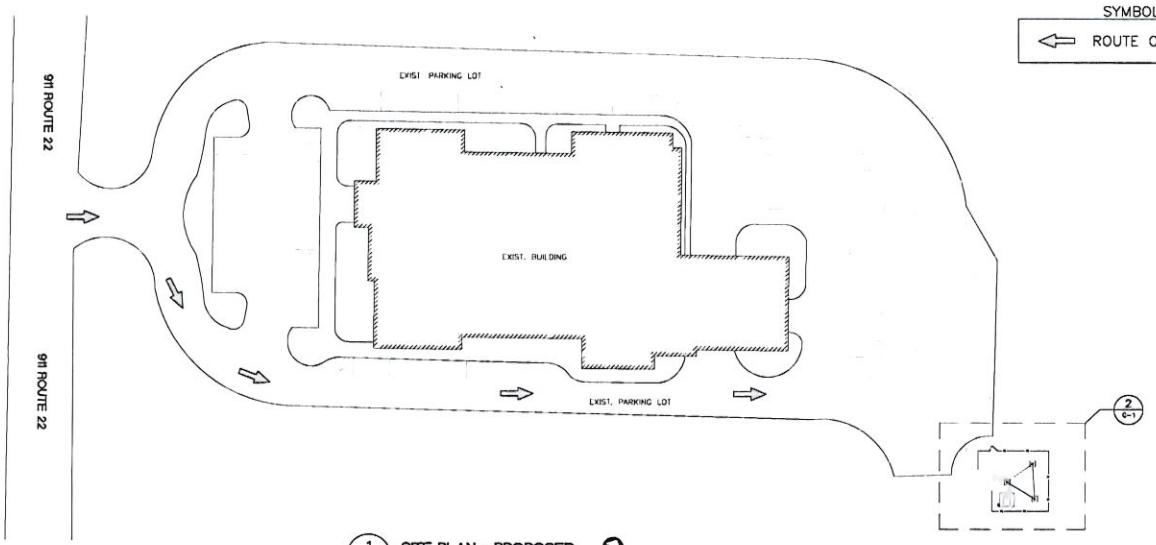
SCALE: AS NOTED
JOB NO. 280363.00

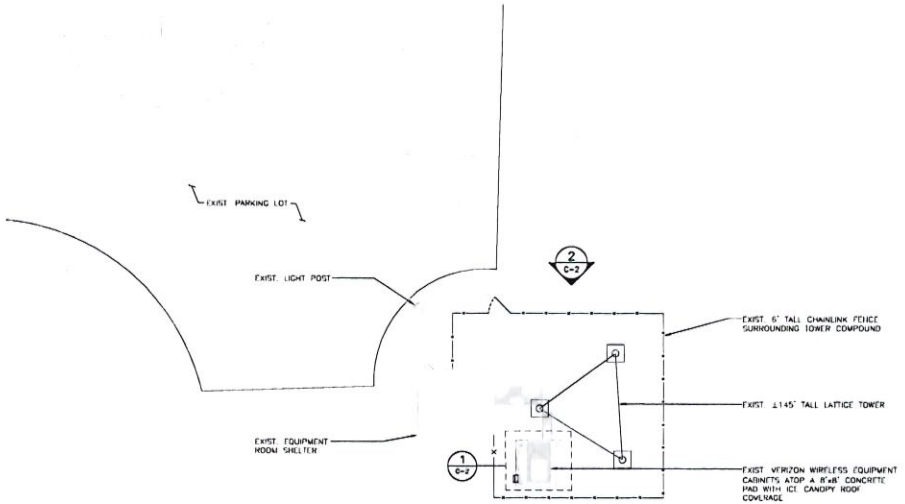
NOTES AND SPECIFICATIONS

N-1

Sheet No. 2 of 8



1 C-1 **SITE PLAN - PROPOSED**
SCALE 1" = 30'



2 C-1 **PARTIAL SITE PLAN - PROPOSED**
SCALE 1" = 10'

REV	DATE	BY	DESCRIPTION
A	07/30/26	ZKW	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
B	09/01/26	ZKW	CONSTRUCTION DRAWINGS - ISSUED FOR CLIENT REVIEW

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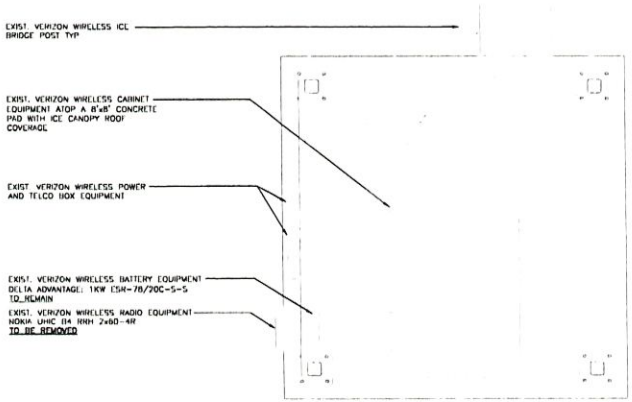
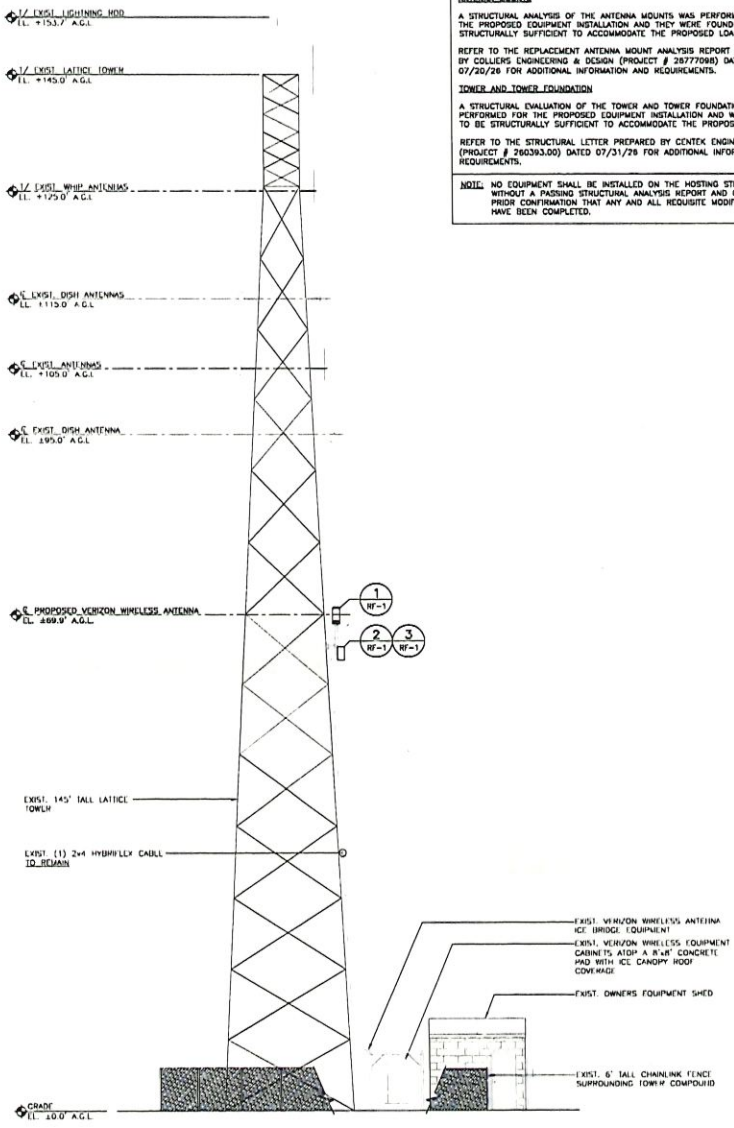
SITE/PARTIAL SITE PLANS

C-1

Sheet No. 3 of 11



1 C-2 **EXISTING/PROPOSED EQUIPMENT PLAN**
SCALE: 3/4" = 1'-0"



2 C-2 **TOWER ELEVATION - PROPOSED**
SCALE: 1/8" = 1'-0"

STRUCTURAL COMPLIANCE

ANTENNA MOUNTS

A STRUCTURAL ANALYSIS OF THE ANTENNA MOUNTS WAS PERFORMED FOR THE PROPOSED EQUIPMENT INSTALLATION AND THEY WERE FOUND TO BE STRUCTURALLY SUFFICIENT TO ACCOMMODATE THE PROPOSED LOADING..

REFER TO THE REPLACEMENT ANTENNA MOUNT ANALYSIS REPORT PREPARED BY COLLIERS ENGINEERING & DESIGN (PROJECT # 26777098) DATED 07/20/26 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

TOWER AND TOWER FOUNDATION

A STRUCTURAL EVALUATION OF THE TOWER AND TOWER FOUNDATION WAS PERFORMED FOR THE PROPOSED EQUIPMENT INSTALLATION AND WAS FOUND TO BE STRUCTURALLY SUFFICIENT TO ACCOMMODATE THE PROPOSED LOADING.

REFER TO THE STRUCTURAL LETTER PREPARED BY CENTEK ENGINEERING (PROJECT # 260393.00) DATED 07/31/26 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

NOTE: NO EQUIPMENT SHALL BE INSTALLED ON THE HOSTING STRUCTURE WITHOUT A PASSING STRUCTURAL ANALYSIS REPORT AND CONTRACTOR PRIOR CONFIRMATION THAT ANY AND ALL REQUISITE MODIFICATIONS HAVE BEEN COMPLETED.

REV	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	07/30/26	ZKH	LJR	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
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DATE:	07/30/2026
SCALE:	AS NOTED
JOB NO.	260393.00

EQUIPMENT PLAN AND TOWER ELEVATION

C-2

Sheet No. 4 of 8

KEY/LEGEND

	(E/P) RF EQUIPMENT	QTY.
1	(P) COMMSCOPE: NNVV54-360S-BF2	1
2	(P) SAMSUNG: RF4461d-13A RADIO EQUIPMENT	1
3	(P) SAMSUNG: RT-8808-77A RADIO EQUIPMENT	1
4	(E) RAYCAP: RRFDC-1064-PF-48 OVP BOX	1
5	(P) SITEPRO1: TLS-U ANTENNA MOUNT W/ ASSOCIATED PIPE MASTS	2

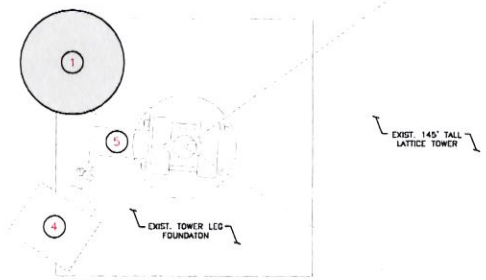
STRUCTURAL COMPLIANCE

ANTENNA MOUNTS

A STRUCTURAL ANALYSIS OF THE ANTENNA MOUNTS WAS PERFORMED FOR THE PROPOSED EQUIPMENT INSTALLATION AND THEY WERE FOUND TO BE STRUCTURALLY SUFFICIENT TO ACCOMMODATE THE PROPOSED LOADING..

REFER TO THE REPLACEMENT ANTENNA MOUNT ANALYSIS REPORT PREPARED BY COLLIERS ENGINEERING & DESIGN (PROJECT # 26777098) DATED 07/20/26 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

NOTE: NO EQUIPMENT SHALL BE INSTALLED ON THE HOSTING STRUCTURE WITHOUT A PASSING STRUCTURAL ANALYSIS REPORT AND CONTRACTOR PRIOR CONFIRMATION THAT ANY AND ALL REQUISITE MODIFICATIONS HAVE BEEN COMPLETED.



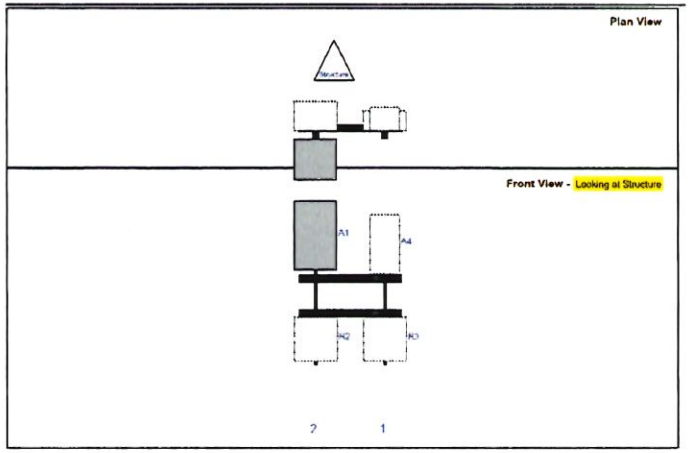
1 / C-3 **PROPOSED SECTOR CONFIGURATION PLAN**
SCALE: 1-1/2" = 1'-0"

Sector A Nominal Mount Azimuth: 310.00° 7/15/2026

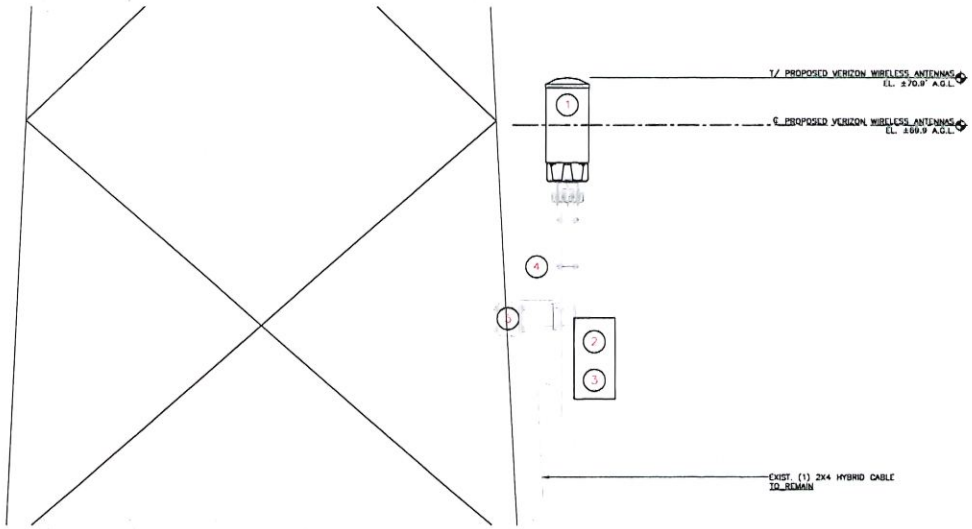
Structure Type: Self Support 10353409

Mount Elev: 68.00 Page 1

Colliers Engineering & Design



Ref#	Model	Height (in)	Width (in)	H Dist From L	Pipe #	Pipe Pos V	Ant Pos	C Ant From T	Ant H Off	Status	Validation
R3	RT-8808-77A	15	15	30	1	a	Behind	39	0	Added	
A4	RRFDC-1064-PF-48	20.6	10.15	30	1	a	Behind	6	0	Retained	
A1	NNVV54-360S-BF2	24	14.8	6	2	a	Front	3	0	Added	
R2	RF4461d-13A	15	15	6	2	a	Behind	38	0	Added	



2 / C-3 **PROPOSED SECTOR CONFIGURATION ELEVATION**
SCALE: 3/4" = 1'-0"

REV	DATE	DRAWN BY	Cnk'D BY	DESCRIPTION
A	07/30/26	ZRX	TJR	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
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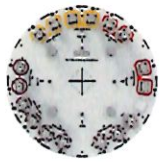
ANTENNA SECTOR CONFIGURATION DETAILS

C-3

Sheet No. 3 of 7

FRONT VIEW



NNVV54-3805-BF2 (BOTTOM VIEW)

ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: NNVV54-3805-BF2	24.02"H x 14.6"ø	±32.6 LBS.
NOTES: 1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.		

1 RF-1 PROPOSED ANTENNA DETAIL
SCALE: NOT TO SCALE

RT-8808-77A

REMOTE RADIO UNIT (RRU)		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: RT-8808-77A	14.96"H x 14.96"W x 6.8"D	±59.5 LBS.
NOTES: 1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.		

2 RF-1 PROPOSED REMOTE RADIO UNIT DETAIL
SCALE: NOT TO SCALE

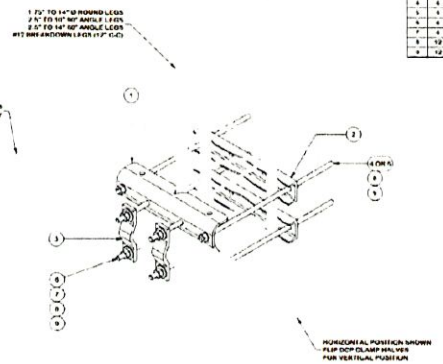
RF4461d-13A

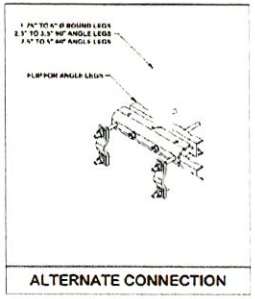
REMOTE RADIO UNIT (RRU)		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: RF4461d-13A	14.96"H x 14.96"W x 10.23"D	±79.1 LBS.
NOTES: 1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.		

3 RF-1 PROPOSED REMOTE RADIO UNIT DETAIL
SCALE: NOT TO SCALE

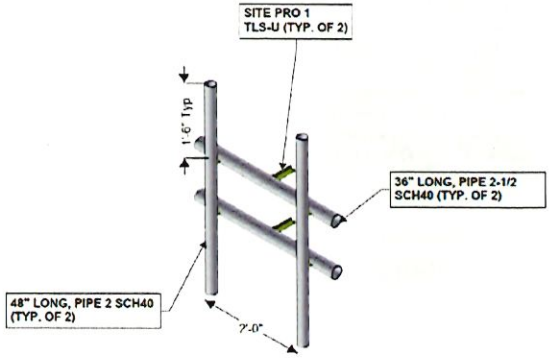
PARTS LIST

ITEM	QTY	PART NO	PART DESCRIPTION	LENGTH	UNIT WT	NET WT
1	1	X-TLU-DPL	TOWER LEG CLAMP DONT PLATE	17 1/4 in	28.08	28.08
2	2	X-FLC-DS	TOWER LEG CLAMP CHANNEL BRACKET	17 1/4 in	8.74	17.48
3	2	DCP	1/2" THICK, X-3/4" ENTER TO CENTER CLAMP HALF	5 1/8 in	2.36	4.72
4	4	GSAR 24	5/8" x 24" THREADED ROD (HDG.)		2.09	8.36
5	5	GSAR 12	5/8" x 12" THREADED ROD (HDG.)		1.01	4.19
6	4	GSHHL	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.57	2.47
7	4	GSWFW	5/8" HDG USS FLATWASHER	99 in	0.07	0.28
8	12	GSLW	5/8" HDG LOCKWASHER		0.01	0.11
9	12	GSNUT	5/8" HDG HEAVY 2H HEX NUT		0.11	1.56
					TOTAL WT =	67.46





ALTERNATE CONNECTION



FINISH:
HOT DIP GALVANIZED

TOLERANCE NOTES	DESCRIPTION	SITE PRO 1
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: MACHINED SAWED AND GAS CUT EDGES (± 0.030") DRILLED AND GAS CUT HOLES (± 0.04") - NO COMING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO COMING OF HOLES BENDS AND ANGLES ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")	UNIVERSAL TOWER LEG SUPPORT	Engineering Support Team 1-888-763-7446
	DRAWN BY: CMFL 6/21/2023	ENG. APPROVAL: 6/18/2023
	CHECKED BY: JET 6/18/2023	PART NO.: TLS-U
	CLASS: 02 DRAWING BASIS: CUSTOMER	DWG. NO.: TLS-U

4 RF-1 PROPOSED MOUNT DETAILS
SCALE: NOT TO SCALE

REV	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
-	06/01/26	ZKW	LJR	CONSTRUCTION DRAWINGS – 65% ZD FOR CONSTRUCTION
A	07/30/26	ZKW	LJR	CONSTRUCTION DRAWINGS – 65% ZD FOR CLIENT REVIEW

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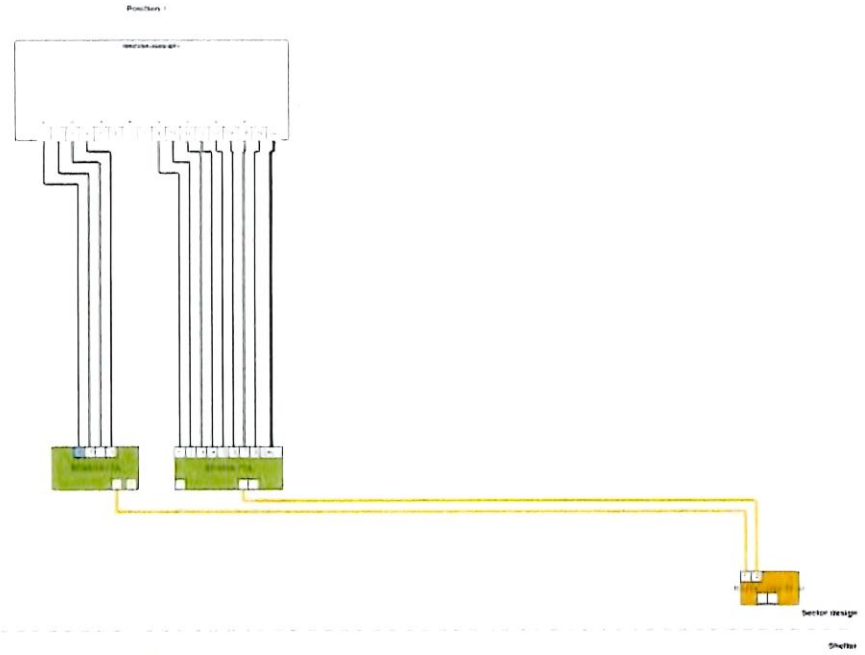
RF EQUIPMENT DETAILS

RF-1

Sheet No. 5 of 5



Alpha
(Proposed)

Legends

RET dc signal capable port

700/850(LB)
700(LT)
850(CB)
AWS(AW)
PCS(PC)
AWS/PCS(HB)
28GHz(U28)
39GHz(U39)
L-Sub6(S6)
CBRS(RS)
LAA(LA)
Fiber
AISG
DC

Coax
Coax Jumper
Sectors Shared Equipments

Notes:

-Antenna view is from the back of the antennas
-Colors of connections are just for clarification
-Size of objects in drawing doesn't reflect equipment true dimensions

1 RF-2 PROPOSED RF PLUMBING DIAGRAM
SCALE: NOT TO SCALE

REV	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	07/30/26	ZRW	LB	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
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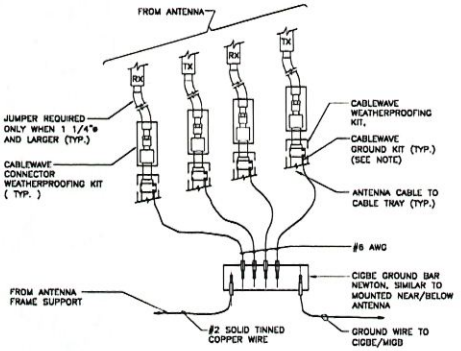
RF PLUMBING DIAGRAM

RF-2

Sheet No. 7 of 8

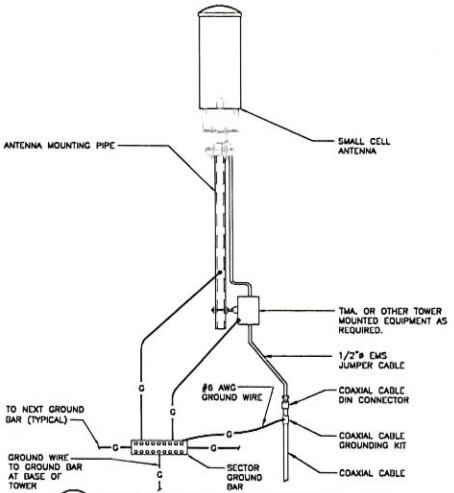


NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

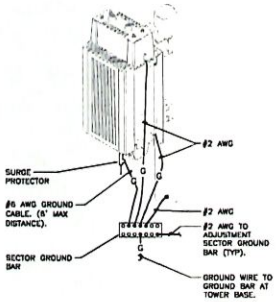
1 E-1 CONNECTION OF GROUND WIRES TO GROUND BAR

SCALE: NOT TO SCALE



2 E-1 TYPICAL ANTENNA GROUNDING DETAIL

NOT TO SCALE



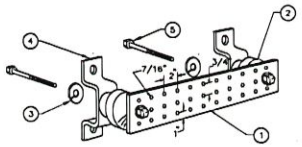
NOTE:

EACH RRH CABINET SHALL BE GROUNDED IN THE FOLLOWING MANNER:

1. AT TOP OF THE CABINET.
2. AT RIGHT SIDE OF THE CABINET.

3 E-1 RRH POLE MOUNT GROUNDING

SCALE: NOT TO SCALE



NOTES

1. TINNED COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3081-4.
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-8056.
5. 5/8-11 x 1" STAINLESS STEEL TRUSS SPANNER MACHINE SCREWS.

4 E-1 GROUND BAR DETAIL

SCALE: NOT TO SCALE

ELECTRICAL SPECIFICATIONS

SECTION 16010

1.01. SCOPE OF WORK

A. WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE (MAKE READY FOR OPERATION) ALL THE ELECTRICAL WORK INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. CELLULAR GROUNDING SYSTEMS CONSISTING OF ANTENNA GROUNDING, GROUND BARS, ETC.

1.02. GENERAL REQUIREMENTS

A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.

B. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND COORDINATION OF THE ENTIRE ELECTRICAL SERVICE. ALL ACTIVITIES TO BE COORDINATED THROUGH OWNERS REPRESENTATIVE, DESIGN ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION OF TRADES.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES THAT MAY BE REQUIRED FOR THE ELECTRICAL WORK AND FOR SCHEDULING OF ALL INSPECTIONS THAT MAY BE REQUIRED BY THE LOCAL AUTHORITY.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE BUILDING OWNER FOR NEW AND/OR DEMOLITION WORK INVOLVED.

E. NO MATERIAL OTHER THAN THAT CONTAINED IN THE "LATEST LIST OF ELECTRICAL FITTINGS" APPROVED BY THE UNDERWRITERS' LABORATORIES, SHALL BE USED IN ANY PART OF THE WORK. ALL MATERIAL FOR WHICH LABEL SERVICE HAS BEEN ESTABLISHED SHALL BEAR THE U.L. LABEL.

F. THE CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE DATE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WARRANTIES FROM ALL EQUIPMENT MANUFACTURERS FOR SUBMISSION TO THE OWNER.

G. DRAWINGS INDICATE GENERAL ARRANGEMENT OF WORK INCLUDED IN CONTRACT. CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE MODIFICATIONS TO THE LAYOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK. CHECK ALL DRAWINGS AND VISIT JOB SITE TO VERIFY SPACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITTAL OF BID.

H. THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3) COMPLETE SETS OF APPROVED DRAWINGS, ENGINEERING DATA SHEETS, MAINTENANCE AND OPERATING INSTRUCTION MANUALS FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPMENT. THESE MANUALS SHALL BE INSERTED IN VINYL COVERED 3-RING BINDERS AND TURNED OVER TO OWNER'S REPRESENTATIVE ONE (1) WEEK PRIOR TO FINAL PUNCH LIST.

I. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND WILL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

J. ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED.

K. BEFORE FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS (AS-BUILTS), LEGIBLY MARKED IN RED PENCIL TO SHOW ALL CHANGES FROM THE ORIGINAL PLANS.

L. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH OWNER'S SPECIFICATIONS, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPROPRIATE INDIVIDUALS TO OBTAIN ALL SUCH SPECIFICATIONS AND REQUIREMENTS. NOTHING CONTAINED IN, OR OMITTED FROM, THESE DOCUMENTS SHALL RELIEVE CONTRACTOR FROM THIS OBLIGATION.

SECTION 16450

1.01. GROUNDING

A. ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNDING SOURCES.

B. GROUNDING SYSTEM WILL BE IN ACCORDANCE WITH THE LATEST ACCEPTABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.

C. EQUIPMENT GROUNDING CONDUCTOR:

1. EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-122.

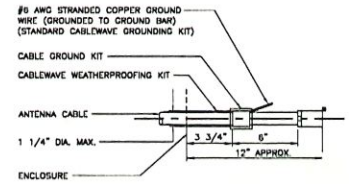
2. THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE #12 AWG COPPER.

D. CELLULAR GROUNDING SYSTEM:

PROVIDE THE CELLULAR GROUNDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:

1. GROUND BARS
2. ANTENNA GROUND CONNECTIONS AND PLATES.

E. ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C., MFG. SPECIFICATIONS, AND OWNER'S SPECIFICATIONS.



NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

5 E-1 ANTENNA CABLE GROUNDING DETAIL

SCALE: NOT TO SCALE

REV	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	07/30/26	ZKH	LJR	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
	09/01/26	ZKH	LJR	CONSTRUCTION DRAWINGS - ISSUED FOR CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering

VERIZON WIRELESS

UNCASVILLE CT SC 2

911 ROUTE 32

MONTVILLE, CT 06353

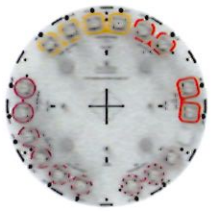
DATE:	07/30/2026
SCALE:	AS NOTED
JOB NO.	260393.00

ELECTRICAL DETAILS AND SPECIFICATIONS

E-1

Sheet No. 8 of 8

NNVVS4-360S-BF2



16-port small cell antenna, 4x 698-896, 4x 1695–2690 and 8x Beamforming 3300- 4000, 360° Horizontal Beamwidth, fixed tilt.

- Two broadband low band arrays (Bands 12/13/29/14/5) with 4T4R (4X MIMO) capability
- Two broadband mid band arrays (Bands 25/66/30/40/41) with 4T4R (4X MIMO) capability
- 8T8R omni beamforming array with calibration port for 3.5 GHz (Bands 48, 77, 78)

General Specifications

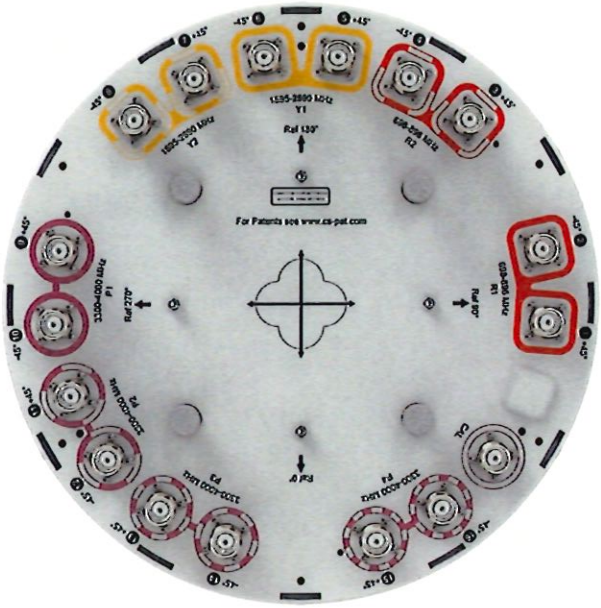
Antenna Type	Small Cell
Band	Multiband
Calibration Connector Interface	4.3-10 Female
Calibration Connector Quantity	1
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	ASA
Radiator Material	Aluminum | Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Dimensions

Length	610 mm | 24.016 in
Net Weight, antenna only	14.8 kg | 32.628 lb
Outer Diameter	370 mm | 14.567 in

Port Configuration

NNVVS4-360S-BF2



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 3300 – 4000 MHz | 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,200 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1-Y2	Y1-Y2	Y1-Y2	Y1-Y2	P1-P4	P1-P4	P1-P4
Frequency Band, MHz	**698–806**	**806–896**	**1695–1920**	**1920–2180**	**2300–2360**	**2360–2690**	**3300–3550**	**3550–3700**	**3700–4000**
RF Port	1-4	1-4	5-8	5-8	5-8	5-8	9-16	9-16	9-16
Gain, dBi	5.3	5.5	7.8	8.3	8.8	8.6	8.3	8.8	8.8
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360	360	360
Beamwidth, Vertical,	45.9	42	21	18.2	16.4	15.6	9.5	9	8.5

NNVVS4-360S-BF2

degrees									
Beam Tilt, degrees	2	2	2	2	2	2	2	2	2
Coupling level, Amp, Antenna port to Cal port, dB							26	26	26
Coupling level, max Amp Δ, Antenna port to Cal port, dB							±2	±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB							1	1	1
Coupler, max Phase Δ, Antenna port to Cal port, degrees							10	10	10
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	25
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145	-145	-145
Input Power per Port at 50° C, maximum, watts	100	100	100	100	100	100	75	75	75

Electrical Specifications, Service Beam

Frequency Band, MHz	**3300–3550**	**3550–3700**	**3700–4000**
Steered 0° Gain, dBi	12.1	12.2	12.3
Steered 0° Beamwidth, Horizontal, degrees	63	63	61

Electrical Specifications, Broadcast 360°

Frequency Band, MHz	**3300–3550**	**3550–3700**	**3700–4000**
Gain, dBi	8.5	8.5	8.7
Beamwidth, Horizontal at 3 dB, degrees	360	360	360
Beamwidth, Vertical, degrees	9.6	8.7	8

Mechanical Specifications

Wind Loading @ Velocity, frontal	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)

NNVVS4-360S-BF2

Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	478 mm | 18.819 in
Depth, packed	464 mm | 18.268 in
Length, packed	894 mm | 35.197 in
Weight, gross	19 kg | 41.888 lb

Regulatory Compliance/Certifications

Agency	**Classification**
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

700/850 4T4R Macro 320W ORU - New Filter (RF4461d-13A)

SAMSUNG

Specifications

Item	Specification	
Air Interface	LTE, NR(HW resource ready)	
Band	Band13 (700MHz)	Band5 (850MHz)
Frequency	DL: 746~756MHz UL: 777~787MHz	DL: 869~894MHz UL: 824~849MHz
IBW	10MHz	25MHz
OBW	10MHz	25MHz
Carrier Bandwidth	LTE/NR 5*/10MHz	LTE 5/10MHz NR 5/10/15/20MHz
# of carriers	2C*	3C
Total # of carriers	4C + B13 (SDL) 1C	
RF Chain	4T4R/2T4R/2T2R/1T2R 2T2R+2T2R bi-sector	
RF Output Power	Total : 320W	
	4 x 40W or 2 x 60W	4 x 40W or 2 x 60W
Spectrum Analyzer	TX/RX Support	
RX Sensitivity	Typ. -104.5dBm @1Rx (25RBs 5MHz)	
Modulation	256QAM support, (1024QAM with 1~2dB power back-off)	
Input Power	-48VDC (-38VDC to -57VDC)	
Power Consumption	1,165 Watt @ 100% RF load, room temperature	
Size (WHD)	380 x 380 x 260 mm (14.96 x 14.96 x 10.23 inch)	
Volume	37.5 L	
Weight (W/o Solar Shield & finger guard)	35.9 kg (79.1 lb)	
Operating Temperature	-40°C (-40°F) ~ 55°C (131°F) (Without solar load)	
Cooling	Natural convection	
Unwanted Emission	3GPP 36.104	3GPP 36.104
	FCC 47 CFR 27.53 c), f)	FCC 47 CFR 22.917
	-	-69 dBm/100 kHz per path @ 896 ~901MHz
CPRI Cascade	Not supported	
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP+, single mode, Duplex (Option: Bi-di)	
RET & TMA Interface	AISG 3.0	
Bias-T	4 ports (2 ports per band)	
Mounting Options	Pole, wall	
NB-IoT	2GB+2IB or 4IB	2SA+2GB or 2GB+2IB or 4GB
PIM Cancellation	Support	
# of antenna port	4	
External Alarm	4	
Fronthaul Interface	Opt. 8 CPRI / Opt. 7-2x selectable (not simultaneous support)	
CPRI compression	Not Support	

* 5MHz supporting in B13(700MHz) depends on 3GPP std. and UE capability.
External filters in interferer and victim sides for Mexican boarder to support 5MHz service need to be considered
** Finger guard is not needed.

Specifications

The following table outlines the main specifications of RT8808-77A.

Table 2. Specifications (RT8808-77A)

Item	RT8808-77A
Radio Technology	5G NR
Operating Frequency	3700 to 3980 MHz
Channel Bandwidth	20/40/60/80/100 MHz
RF Chain	• 8T8R, 4T4R+4T4R Bi-sector • 2T2R+2T2R+2T2R Tri-sector • 4T8R+4T8R split mode
RF Output Power	Max. 320W (8 x 40W)
Capacity	Total Max 2C
CPRI interface	15km, 2 ports (25Gbps x 2), SFP28, single mode, Bi-di (Option: Duplex)
Input Voltage	-48 V DC (-38 V DC to -57 V DC)
Power Consumption (Max.)	1,192 W (100% load, 25°C) (w/o RET)
Operating Humidity	5% to 100%RH (Condensing, not to exceed 30g/m3 absolute humidity)
Operating Temperature	-40°C to 55°C (without solar load)
Dimension (in./mm)	14.96/380 (W) × 6.82/173.3(D) × 14.96/380 (H)
Weight (kg)	27 or less than
Cooling	Natural convection
Waterproof/Dustproof	IP65
Wind Resistance	Telcordia GR-487-CORE Issue5 • Wind Resistance (Section 3.36)
Earthquake Specification	Telcordia GR-63-CORE, Issue5, □ Earthquake (Section 4.4.1)
Vibration Specification	Telcordia GR-63-CORE, Issue5, • Office Vibration (Section 4.4.4) • Transportation Vibration (Section 4.4.5)
Altitude	Telcordia GR-63-CORE, Issue5, • Altitude (Section 4.1.3)
EMC	FCC Title 47 CFR Part 15
RF	FCC Title 47 CFR Part 27, 24
Safety	UL 62368-1, 2nd Edition
Installation	Pole, Wall, Tower

The power consumption is predicted with a simulation and the measured value is subject to change by ±10%

ATTACHMENT 3

C Squared Systems, LLC
65 Dartmouth Drive
Auburn, NH 03032
(603) 644-2800
support@csquaredsystems.com

Calculated Radio Frequency Emissions Report

Uncasville CT SC2

911 Route 32

Montville, CT 06353

September 1, 2026

Table of Contents

List of Figures

List of Tables

1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modification of Verizon's omni-directional antenna mounted at 69.9' above ground level (AGL) on the existing lattice tower located at 911 Route 32, Montville, CT. The coordinates of the existing facility are 41° 27' 4.43" N, 72° 06' 18.76" W.

Verizon is proposing to remove one (1) existing small-cell antenna "NH65PS-DG-F0M" and install one (1) omni-directional small-cell antenna "NNVVS4-360S-BF2" to support its 4G LTE and 5G NR networks.

This report considers the proposed antenna configuration for Verizon, in addition to existing equipment configurations for Eversource and other unidentified operators, to calculate the resulting percentage of Maximum Permissible Exposure (% MPE) at ground level around the existing facility. The technical operating information for the existing operators at this facility was based on prior Connecticut Siting Council (CSC) applications on record and other resources as referenced in Section 4 of this report.

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the various frequency ranges are defined in the documents referenced in Attachment A of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

3. RF Exposure Calculation Methods

The results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{GRF^2 \times \text{EIRP}}{4\pi \times R^2}\right) \text{X Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power`

R = Radial Distance = $\sqrt{(H^2 + V^2)}$

H = Horizontal Distance from antenna

V = Vertical Distance from center of antenna

Off Beam Loss is determined by the selected antenna patterns

GRF = Ground reflection factor of 1.6

These calculations assume that the transmitters are operating at full power and 100 percent capacity, and that all channels are transmitting simultaneously. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not considered. As a result, the calculated power density and corresponding % MPE levels reported below are more conservative (higher) than the actual signal levels will be from the final installation.

The percentage of MPE values presented in this report reflect levels that one may encounter from one sector of a carrier's antennas. Most carriers use 3 or 4 sectors per site with azimuths approximately 90 or 120 degrees apart, respectively; therefore, one could not be standing in the main beam of multiple sectors at the same time. In cases where antenna models are not uniform across all sectors, the antenna model with the highest gain and/or electrical down-tilt was used in the calculations. This results in a conservative or "worst case" assumption for percentage of MPE calculations.

4. Reference Documents

The following resources and documents were used as references in this MPE analysis.

- Verizon's Radio Frequency Design Sheet dated 10/15/2025
- Verizon's Construction Drawings prepared by Centek Engineering, Inc., dated 9/1/2026 (Rev. 0)
- Structural Analysis Report prepared by Centek Engineering, Inc., dated 7/31/2026
- Eversource's Connecticut Siting Council Tower Share Application – 911 Route 32, Montville, CT, dated 8/23/2016

5. Antenna Inventory

Table 1 below outlines the proposed small-cell antenna configurations for Verizon. The associated data model and antenna patterns for these specific antenna models are included in Attachment C.

Operator	Azimuth	TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. / Elec. Tilt	Length (ft)	Antenna Centerline Height (ft)
Verizon	310°	700	160	5.3	542	NNVVS4-360S-BF2	360	0/2	2	69.9
		850	160	5.5	568		360	0/2		
		3700	320	12.3	5434		61	0/2		

Table 1: Proposed Antenna Inventory[1, 2]

[1] Antenna configuration is in reference to Verizon's Radio Frequency Design Sheet dated 10/15/2025 and the Construction Drawings prepared by Centek Engineering Inc., and dated 9/1/2026 (Rev. 0).

[2] Transmit power assumes 0 dB of cable loss.

6. Calculated % MPE Results

The calculated % MPE results for the proposed and existing antenna configurations are shown in Figure 1 below. Each frequency band and technology is calculated as well as the resulting cumulative percentage of MPE. For completeness, the calculations for this analysis range from 0 feet horizontal distance (directly below the antennas) to a value of 3,000 feet horizontal distance from the site. In addition to the other worst-case scenario considerations that were previously mentioned, the power density calculations to each horizontal distance point away from the antennas was completed using a local maximum off beam antenna gain (within ± 5 degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.

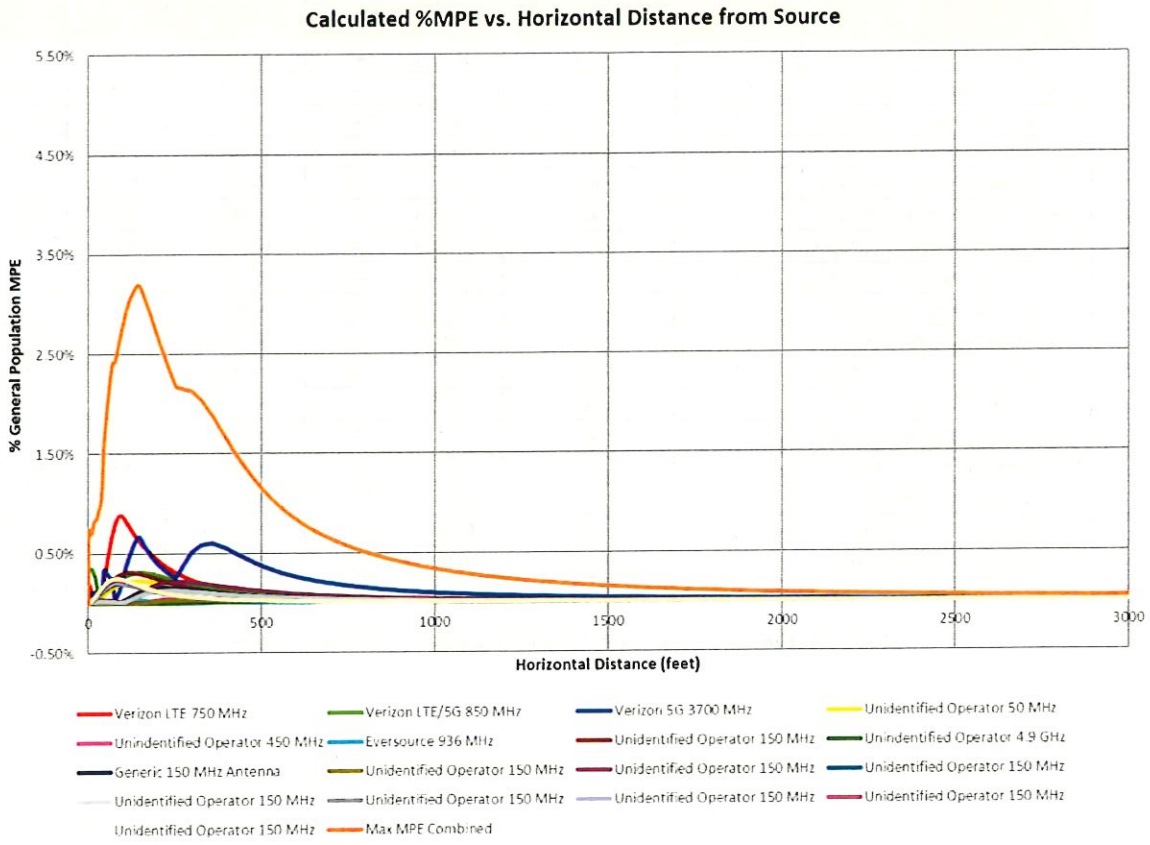


Figure 1: Graph of General Population % MPE vs. Distance

The highest percentage of MPE (**3.19%** of the General Population limit) is calculated to occur at a horizontal distance of 144 feet away from the site. Please note that the percentage of MPE calculations close to the site consider off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 300 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, power density levels vary based on distance from the site and the percentage of MPE decreases significantly as distance from the site increases.

Table 2 below lists percentage of MPE values as well as the associated parameters that were included in the calculations. As stated in Section 3, all calculations assume that the transmitters are operating at full power and transmitting simultaneously. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. Additionally, a six-foot height offset was considered in this analysis to account for the height of a person standing at ground level. As a result, the calculated % MPE levels are more conservative (higher) than the actual signal levels will be from the final installation. The results presented in Figure 1 and Table 2 assume level ground elevation from the base of the site out to the horizontal distances calculated.

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm^2)	Limit (mW/cm^2)	% MPE
Eversource 936 MHz	2	32.1	138.0	144	0.000205	0.624	0.03%
Generic 150 MHz Antenna	1	100.0	105.0	144	0.000207	0.200	0.10%
Unidentified Operator 150 MHz	2	20.0	145.0	144	0.000010	0.200	0.01%
Unidentified Operator 150 MHz	2	100.0	125.0	144	0.000161	0.200	0.08%
Unidentified Operator 150 MHz	1	100.0	115.0	144	0.000132	0.200	0.07%
Unidentified Operator 150 MHz	1	56.2	115.0	144	0.000132	0.200	0.07%
Unidentified Operator 150 MHz	1	56.2	115.0	144	0.000323	0.200	0.16%
Unidentified Operator 150 MHz	1	56.2	110.0	144	0.000341	0.200	0.17%
Unidentified Operator 150 MHz	1	56.2	105.0	144	0.000359	0.200	0.18%
Unidentified Operator 150 MHz	1	56.2	102.0	144	0.000370	0.200	0.18%
Unidentified Operator 150 MHz	1	100.0	125.0	144	0.000600	0.200	0.30%
Unidentified Operator 50 MHz	1	100.0	145.0	144	0.000450	0.200	0.23%
Unindentified Operator 4.9 GHz	1	1.0	95.0	144	0.000006	1.000	0.00%
Unindentified Operator 450 MHz	1	100.0	145.0	144	0.000019	0.300	0.01%
Verizon 5G 3700 MHz	1	320.0	69.9	144	0.006593	1.000	0.66%
Verizon LTE 750 MHz	1	160.0	69.9	144	0.003231	0.500	0.65%
Verizon LTE/5G 850 MHz	1	160.0	69.9	144	0.001730	0.567	0.31%
						Total	**3.19%**

Table 2: Maximum Percentage of General Population Exposure Values [3, 4, 5]

[3] Frequencies listed are representative of the operating band and are not the specific operating frequency.

[4] The total % MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

[5] For the purpose of this analysis, a maximum ERP of 100 Watts is used to represent worst-case analysis for omni-directional antennas operating in the VHF/UHF frequency range.

7. Conclusion

The above analysis concludes that RF exposure levels from Verizon's proposed equipment configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative % MPE at ground level in consideration of all transmitters is calculated to be **3.19% of the FCC limit (General Population/Uncontrolled)**. This maximum cumulative percentage of MPE value is calculated to occur 144 feet away from the site.

8. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.1, ANSI/IEEE Std. C95.3, and FCC OET Bulletin 65 Edition 97-01.

Report Prepared By: Evelio Sotolongo
Sr RF Engineer
C Squared Systems, LLC

August 31, 2026
Date

Reviewed/Approved By: Martin Lavin
Senior RF Engineer
C Squared Systems, LLC

September 1, 2026
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

IEEE C95.1-2019, IEEE Standard Safety Levels With Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2021, IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields With Respect to Human Exposure to Such Fields, 0 Hz to 300 GHz IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure [6]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure [7]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 3: FCC Limits for Maximum Permissible Exposure

[6] Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

[7] General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

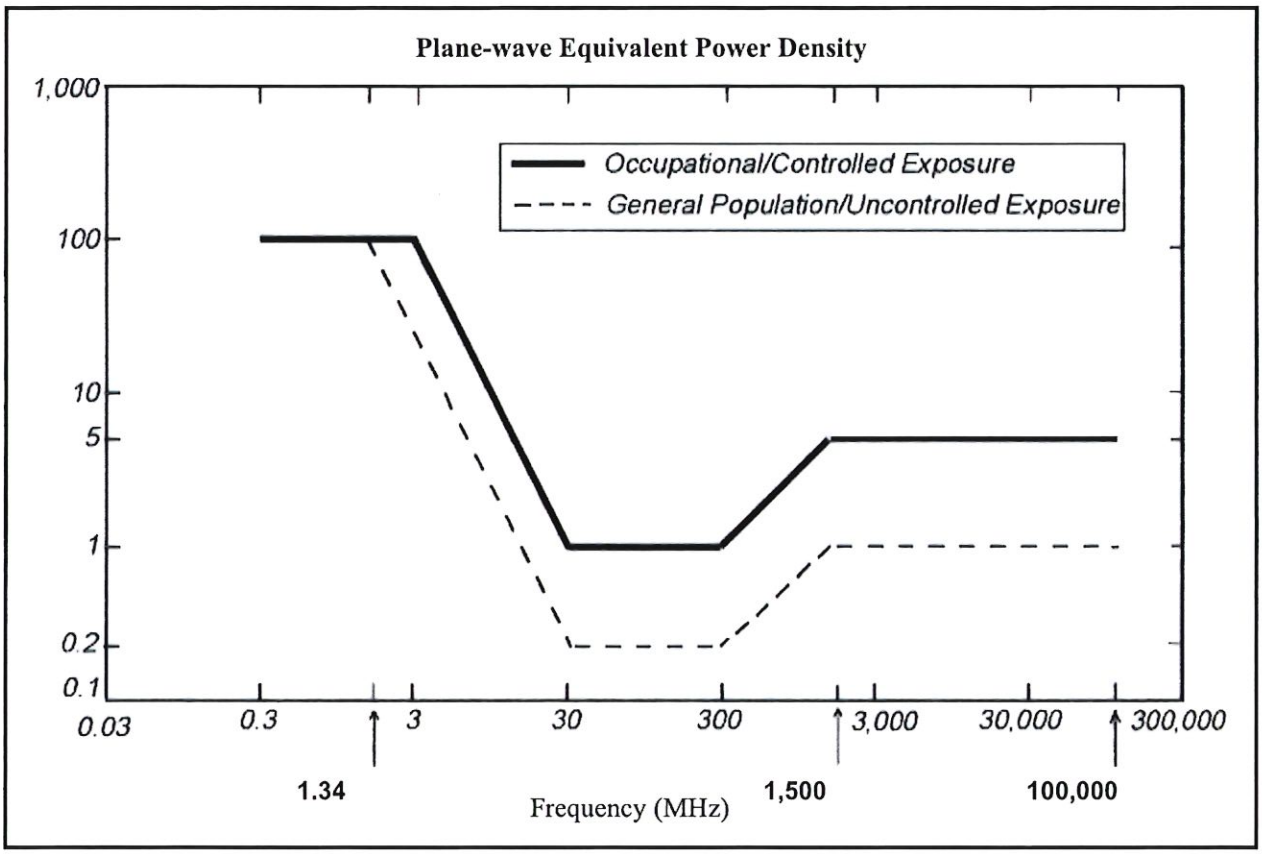
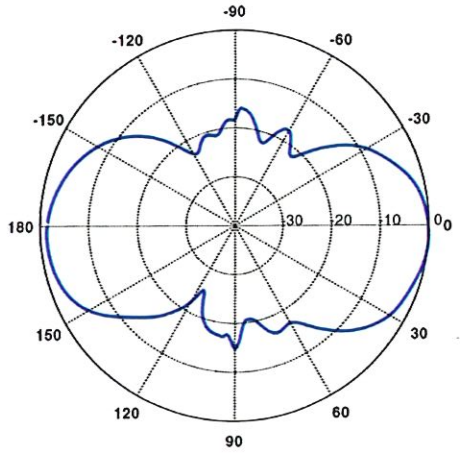


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: Verizon Antenna Model Data Sheets and Electrical Patterns

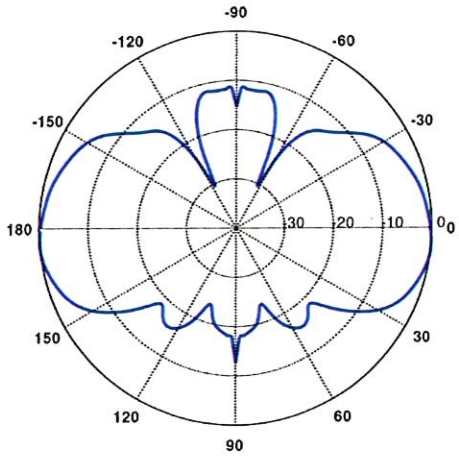
700 MHz

Manufacturer:	Andrew
Model #:	NNVVS4-360S-BF2
Frequency Band:	698–806 MHz
Gain:	5.3 dBi
Electrical Down-Tilt:	2°
Vertical Beamwidth:	45.9°
Horizontal Beamwidth:	360°
Polarization:	±45°
Dimensions (Length):	24″



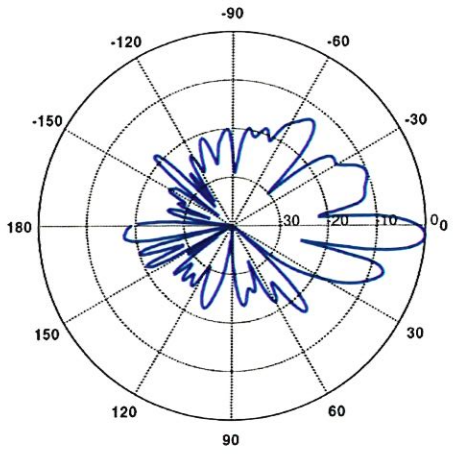
850 MHz

Manufacturer:	Andrew
Model #:	NNVVS4-360S-BF2
Frequency Band:	806–896 MHz
Gain:	5.5 dBi
Electrical Down-Tilt:	2°
Vertical Beamwidth:	42.0°
Horizontal Beamwidth:	360°
Polarization:	±45°
Dimensions (Length):	24″

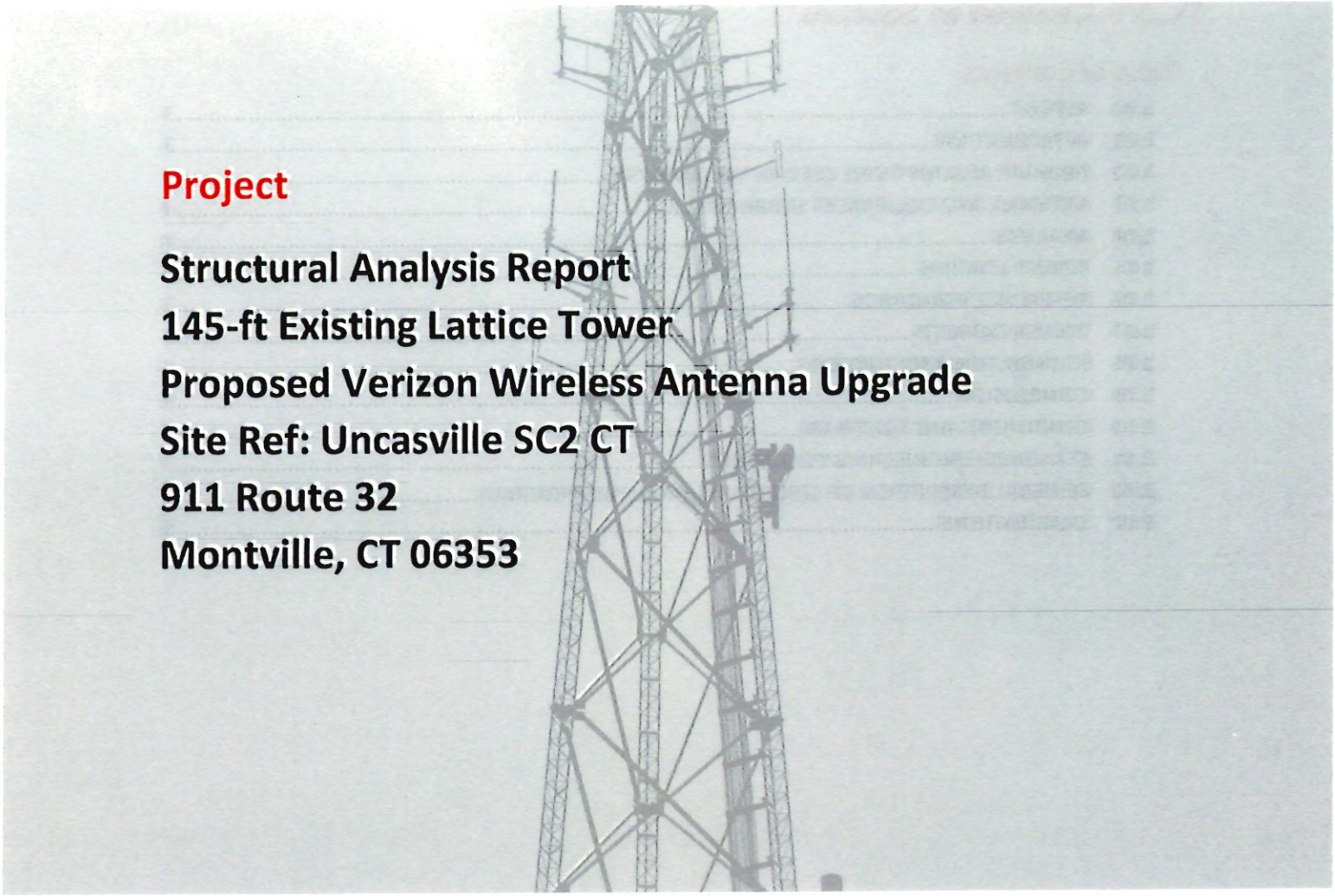


3700 MHz

Manufacturer:	Andrew
Model #:	NNVVS4-360S-BF2
Frequency Band:	3550–3700 MHz
Gain:	12.3 dBi
Electrical Down-Tilt:	2°
Vertical Beamwidth:	-°
Horizontal Beamwidth:	61°
Polarization:	±45°
Dimensions (Length):	24″



ATTACHMENT 4



Project

Structural Analysis Report
145-ft Existing Lattice Tower
Proposed Verizon Wireless Antenna Upgrade
Site Ref: Uncasville SC2 CT
911 Route 32
Montville, CT 06353

Centek Project No.: 260393.00

Date Issued: July 31, 2026

Prepared For
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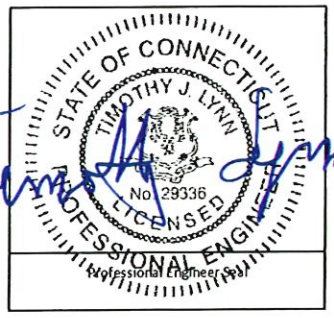

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1.00 REPORT

1.01 INTRODUCTION

The purpose of this report is to summarize the results of the non-linear, P-Δ structural analysis of the antenna upgrade proposed by Verizon Wireless on the existing lattice tower located in Uncasville, Connecticut.

The host tower is a 145-ft, three-legged, lattice tower designed and manufactured by Valmont eng. File no. A-158420 dated November 11, 2011. The tower geometry, structure member sizes and foundation information were taken from a previous structural report prepared by Centek Engineering job no. 15122.000, dated October 21, 2016.

Antenna and appurtenance inventory were obtained from a combination of the aforementioned Centek Engineering, Inc. structural analysis and field investigation conducted by Centek Engineering personnel on July 14, 2026.

The tower consists of eight (8) vertical sections consisting of solid round legs and truss legs conforming to ASTM A572 Gr.50 and solid round lateral bracing conforming to ASTM A572 Gr. 50 and angle lateral bracing conforming to ASTM A36. The vertical tower sections are connected by bolted flange plates with the diagonal and horizontal bracing to pipe legs consisting of bolted connections. The width of the tower face is 5.0-ft at the top and 18.0-ft at the bottom.

1.02 PRIMARY ASSUMPTIONS USED IN THE ANALYSIS

The tower structure's theoretical capacity does not include any assessment of the condition of the tower.
The tower carries horizontal and vertical loads due to the weight of appurtenances, ice load and wind.
The tower is properly installed and maintained.
The tower is in plumb condition.
Tower loading for appurtenance and mounts is as listed in this report.
All bolts are appropriately tightened providing the necessary connection continuity.
All welds are fabricated with ER-70S-6 electrodes.
All members are assumed to be as specified in the original tower design documents.
All members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
All members' protective coatings are in good condition.
All tower members were properly designed, detailed, fabricated, installed and have been properly maintained since erection.
Any deviation from the analyzed appurtenance loading will require a new analysis for verification of structural adequacy.
All coax cables are installed as indicated in this report.

1.03 ANTENNA AND EQUIPMENT SUMMARY

Carrier	Antenna/Appurtenance	Elevation (A.G.L.)	Mount	Cables
Unknown	(1) 10-ft Lightning Rod	±145-ft	N/A	(4) 1/2" Ø
	(2) Telewave ANT150F2 Omni Antennas (1) Telewave ANT450F2 Omni Antenna (1) Kreco CO-41A Omni Antenna		(3) 3' Side Arms	
Eversource	(1) Andrew DB589-Y Omni Antenna	±138-ft	3' Side Arm	(1) 1-1/4" Ø
Unknown	(2) Telewave ANT150F2 Omni Antennas (1) Kreco CO156AN Omni Antenna	±125-ft	(3) 3' Side Arms	(1) 7/8" Ø (2) 1/2" Ø
	(1) Telewave ANT150D Dipole (1) Telewave ANT50F2 Omni Antenna	±115-ft	3' Side Arm	(3) 1/2" Ø
	(1) Telewave ANT150D Dipole	±110-ft	3' Side Arm	
	(1) Telewave ANT150D Dipole (1) 10'x3" Omni Antenna	±105-ft	3' Side Arm	(3) 1/2" Ø
	(1) Telewave ANT150D Dipole	±102-ft	3' Side Arm	
	(1) Radiowaves SPD2-4.7 Dish Antenna	±95-ft	Pipe Mount	(2) 1/2" Ø
Verizon	**(1) Andrew NNVVS4-360S-BF2 Antenna** **(1) Samsung RT8808-77A RRU** **(1) Samsung RF4461d-13A** (1) Raycap RRFDC-1064-PF-48 OVP ~~(1) Andrew NH65PS-DG-F0M Antenna~~ ~~(1) Nokia UHIC B4 RRU~~	±70-ft	Pipe Mount w/ SitePro TLS-U	(1) 2x4 Hybrid

Equipment – Indicates equipment to remain.

~~Equipment – Indicates equipment to be removed.~~

Equipment – Indicates equipment to be installed.

1.04 ANALYSIS

The existing tower was analyzed using a comprehensive program entitled tnxTower. The program analyzes the tower, considering the worst-case loading condition. The tower is considered to be loaded by concentric forces and the model assumes that the pole is subjected to bending, axial and shear forces.

The existing tower was analyzed for the controlling basic wind speed (3-second gust) with no ice and the applicable wind and ice combination to determine stresses in members as per the guidelines of TIA-222-H-2018 entitled "Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures", the American Institute of Steel Construction (AISC) and the Manual of Steel Construction; Load and Resistance Factor Design (LRFD).

The controlling wind speed is determined by evaluating the local available wind speed data provided in Appendix P of the CSBC and the wind speed data available in the TIA-222-H-2018 Standard.

1.05 TOWER LOADING

Tower loading was determined by the basic wind speed as applied to projected surface areas with modification factors per TIA-222-H-2018, gravity load of the pole structures and its components, and the application of 1.00" radial ice on the tower structure and its components.

Load Cases:

Load Case 1; 135 mph wind speed w/ no ice plus gravity load – used in calculation of tower stresses and rotation — *Appendix P of the 2022 CSBC*

Load Case 2; 50 mph wind speed w/ 1.00" radial ice plus gravity load – used in calculation of tower stresses. — *Annex B of TIA-222-H*

1.06 REFERENCE STANDARDS

2021 International Building Code amended by the 2022 Connecticut State Building Code
AISC 360 – 16: Specification for Structural Steel Buildings
ASCE/SEI 7 – 16: Minimum Design Loads and Associated Criteria for Building and Other Structures
TIA-222-H: "Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures"

1.07 TOWER CAPACITY

Calculated stresses were found to be within allowable limits. The tower was found to be at **79.3%** of its total capacity.

Tower Section	Elevation	Stress Ratio (percentage of capacity)	Result
Leg (T8)	0'-20'	79.3%	**PASS**
Diagonal (T8)	0'-20'	76.8%	**PASS**

1.08 FOUNDATION AND ANCHORS

The existing foundation consists of three (3) 3.0-ft square x 4.5-ft long reinforced concrete piers on a 26.5-ft square x 1.5-ft thick reinforced concrete pad bearing directly on existing sub grade. The sub-grade conditions used in the analysis of the existing foundation were obtained from the aforementioned structural analysis. Tower legs are connected to the foundation by means of (6) 1.0" Ø, ASTM F1554 Gr. 105 anchor bolts per leg, embedded 5-ft into the concrete foundation structure.

The tower reactions developed from the governing Load Case were used in the verification of the foundation and anchor bolts.

Reactions	Vector	Proposed Base Reactions
Base	Shear	**24 kips**
	Compression	**17 kips**
	Moment	**1,764 ft-kips**
Leg	Shear	**15 kips**
	Uplift	**102 kips**
	Compression	**119 kips**

The anchor bolts were found to be **within allowable limits.**

Tower Section	Component	Stress Ratio (percentage of capacity)	Result
Anchor Bolts	Compression + Shear	27.3%	**PASS**

The foundation was found to be **within allowable limits.**

Foundation	Design Limit	TIA-222-H FS/Allowable Bearing	Proposed Loading FS/Bearing	Result
Reinforced Concrete Piers (3) and Mat	OM	1	2.59	**PASS**
	Bearing	4,000 psf	930 psf	**PASS**

1.09 CONCLUSION

This analysis finds the subject tower, foundation, and anchor bolts to **HAVE SUFFICIENT CAPACITY** to support the proposed equipment configuration.

The analysis is based, in part, on the information provided to this office by Verizon Wireless. If the existing conditions are different than the information in this report, Centek Engineering, Inc. must be contacted for resolution of any potential issues.

Please feel free to call with any questions or comments.

Respectfully Submitted by:

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Structural Engineer

Prepared by:

Christian Tomaso, EIT
Structural Engineer