# Robinson+Cole

#### KENNETH C. BALDWIN

280 Trumbull Street Hartford, CT 06103-3597 Main (860) 275-8200 Fax (860) 275-8299 kbaldwin@rc.com Direct (860) 275-8345

Also admitted in Massachusetts and New York

October 7, 2021

Via Electronic 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 37 North Main Street, Wallingford, 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 Cellco facility consists of antennas attached to two masts on the roof of the building, within two faux chimney concealment enclosures. Equipment associated with the antennas is located inside the attic of the building. Cellco's existing roof-top facility was approved by the Council in December of 2015 (PE1133-VER-20151113). A copy of the Sub-Petition (PE1133-VER-20151113) approval letter is included in <u>Attachment 1</u>.

Cellco now intends to modify its facility by replacing its three (3) existing antennas with three (3) MX14FIT665-01 antennas on modified antenna mounting hardware within the same concealment enclosures. New Remote Radio Heads ("RRHs") will be installed inside the attic of the building. A set of project plans showing Cellco's proposed facility modifications and new antennas and RRH specifications are included in <u>Attachment 2</u>.

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 Wallingford's Chief Elected Official and Land Use Officer.

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Robinson & Cole LLP

Melanie A. Bachman, Esq. October 7, 2021 Page 2

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 antenna structures. Cellco's replacement antennas will be installed at same height as its existing antennas on the roof.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the 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 antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A general power density calculation table for the modified facility is included in <u>Attachment 3</u>. 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 Letter (SL), the antenna mounts, radio frequency transparent enclosures and host building can support Cellco's proposed antenna modifications. A copy of the SL is included in <u>Attachment 4</u>.

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

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).

Melanie A. Bachman, Esq. October 7, 2021 Page 3

Sincerely,

Kunig mm

Kenneth C. Baldwin

Enclosures

Copy to:

William W. Dickinson, Jr., Wallingford Mayor Kevin Pagini, Wallingford Town Planner Wallace Realty Inc. Aleksey Tyurin



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

December 29, 2015

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

RE: **PE1133-VER-20151113** – 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 37 North Main Street, Wallingford, 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:

- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- 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;
- The validity of this action shall expire one year from the date of this letter; and
- 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 received November 13, 2015.

Thank you for your attention and cooperation.

Very truly yours,

Melanie Bachman Acting Executive Director

MB/RM/CW

c: Honorable William W. Dickinson, Jr, Mayor, Town of Wallingford Kacie Costello, Town Planner, Town of Wallingford



ver	izon√

## WALLINGFORD 4 CT - A 37 N MAIN STREET WALLINGFORD, CT 06492

#### GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT. SINCLUDING THE TA/EA-222 REVISION "G" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE, AND LOCAL CODES.
- SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
- 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 DARTIES. THE SUBCONTRACTORS SHALL DRAWING ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEM WORK.
- 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.
- 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.
- 6. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, AND ALL TRADES AS APPLICABLE PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTINUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE ANALABLE ALL OLD DRAWINGS SHALL BE CONTRACTOR SHALL FUNKING AN UNS-BULLT SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- CINEL OF OF COMPACT AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATCALLY 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.
- 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, UNDERPRIVATING, ETC. THAT MAY BE NECESSARY, MUNITAN EXISTING BUILDING'S / DROPERTY'S OPERATIONS COOPDINATE WORK WITH BUILDING/PROPERTY OWNER.
- DRAWINGS INDICATE THE MINIMUM STANDARDS BUT IF ANY WORK SHOULD BE INDICATE TO BE SUBSTANDARD TO ANY ORDWARES SHOULD BE INDICATE TO BE SUBSTANDARD TO ANY ORDWARES CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXCUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LANS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.

- ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- 12. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS, CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- 13. ANY AND ALL ERRORS, DISCREPANCIES, AND 'MISSED' ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER DURING THE BIDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRM' WILL BE ALLOWED FOR MISSED ITEMS.
- 14. 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.
- 15. 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.
- 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.
- COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- RESPONSIBILIT OF THE CONTINUE OF A PLOCASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB- CONTRACTORS FOR ANY CONDITION PER THE MANUFACTURE'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- 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 ACTIVITES.
  - 20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455, ALL UTILITES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION WORK, CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITES THROUGHOUT PROJECT COMPLETION.

#### SITE DIRECTIONS





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LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.g. VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492		80	-
CONTACT PERSON:	WALTER CHARCZNSKI (CONSTRUCTION VERIZON WIRELESS (860) 306-1806	MANAGER)	Wire	1-1-
ENGINEER:	CENTEK ENGINEERING, INC. 63-2. NORTH BRANFORD RD. BRANFORD, CT. 06405 (203) 488-0580		/erizol	0 4 0
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Cellco Partnership d/b/a Verizon Wireless					37 N MAN STREET		WALLINGFORD, CT 06492	
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#### NOTES AND SPECIFICATIONS

#### DESIGN BASIS:

#### GOVERNING CODE: 2015 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY THE 2018 CT STATE BUILDING CODE AND AMENDMENTS.

- 1. DESIGN CRITERIA:
- RISK CATEGORY: II (BASED ON TABLE 1604.5 OF THE 2015 IBC)
- NOMINAL DESIGN SPEED (TOWER): 125 MPH (Vasd) (EXPOSURE B/MPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) FER 2015 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE.
- SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

#### GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE GOVERNING BUILDING CODE.
- DEALINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LWKS, CODES, RULES, OR REGULATONS BERAING ON THE WORK, THE CONTRECTOR SHALL INCLUDE IN HIS WORK AND SHALL DECOTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LWKS, CODES, RULES OR REQUILIDINGS WITH NO INCREASE IN COSTS.
- BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AND CONTIGUOUS TO THE SITE WHICH MAY AFFECT PERFORMANCE AND COST OF THE WORK.
- DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
   THE CONTRACTOR SHALL VERITY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
- C. ALL DIRVISIONS, ELEVATIONS, AND OTHER REFERENCES TO DISTINIS STRUCTURES, SURFACE, AND SUBSURFACE COMMITMENS ARE APPROXIMATE. NO CURANTER IS MODE FORT THE ACCURACE TO COMMETCINES OF TOM INFORMATION APPROX. THE ACCURACE OF OF TOM INFOR
- 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 SATISFACTORLY RESOLVED.
- 8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVING AND MAINTAINING ADQUATE SHORNG, BRACING, AND BARRICADES AS MAY BE REQUIRED FOR THE PROTECTION OF EXISTING PROPERTY, CONSTRUCTION WORKERS, AND FOR PUBLIC SWETY.
- 9. The continuence is solid; reservinge to bettermine construction precommendation is solided; and to beside the certific of the beside structures and its conformer parts burne construction, this includes the continuon of whatever solver, barned, buildennine, etc. That may be incomplete the burned of the burned of the burned with the incomplete transmission of the burned of the burned of the burned incomplete the burned of the burned of the burned of the burned incomplete the burned of the burned o
- ALL DAWAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAWAGED DURING CONSTRUCTION ACTIVITIES.
- 11. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

















EQUIPMENT	DESCRIPTION	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: SDX1926Q-43	ULTRA COMPACT PCS/AWS	4.2"H × 6.9"W × 2.9"D	-









EQUIPMENT	BANDS	DIMENSIONS	WEIGHT		
MAKE: SAMSUNG MODEL: RF440d-13A	B5: 850 MHz B13: 700 MHz	15.0"H x 15.0"W x 9.0"D	70.3 LBS.		
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.					

5 DUAL-BAND 700/850 MHZ MACRO RADIO UNIT DETAIL NOT TO SCALE







- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056.
- 3 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8.
- 2 INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4.
- 1 TINNED COPPER GROUND BAR, 1/4" × 4" × 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.







#### ELECTRICAL SPECIFICATIONS

#### SECTION 16010 1.01. SCOPE OF WORK

SECTION 16450 1.01. GROUNDING

C. EQUIPMENT GROUNDING CONDUCTOR:

D. CELLULAR GROUNDING SYSTEM:

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

- 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 ENITRE 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.
- C. DRIVINGE INVOLTE CRIEBAL ARRANGEMENT OF WORK INCLUED IN CONTRACT. CONTROLOGY SALL, WITHOUT CRIED CHARGE WAY MODIFICATIONS OF THE LYNOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK CHECK ALL DRIWINGS AND WOST AND SITE TO VERTI'S PACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITIAL OF BID.
- H. THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3) COMPLETE SETS OF APPROVED DRWINKS, ENGINEERING DATA SHEETS, MANTENNOE AND OPERATING INSTRUCTION MANUALS FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPIENT. THESE MANUALS SHALL BE INSERTED IN WINTL COVERED 3-RING BINDERS AND TURNED OVER TO OWNER'S REPRESENTATION ONE (1) WEEK PRIOR TO FININE PUNCH LIST.
- 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.



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 LELOTTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.

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

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

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

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



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CONSTRUCTION D

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488-0580 488-8587 Fox North Branford I ford. CT 06405

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d/b/a Verizon

Partnership



### NWAV™ X-Pol 14-Port Antenna

#### X-Pol 14-Port 6 ft, 65° Form in Tighter with Smart Bias Ts, 698-4200 MHz:

2 ports 698-894 MHz, 4 ports 1695-2180 MHz, and 8 ports 3700-4200 MHz

- Combination of Hex Port Antenna with integrated 5G 3.5 GHz 8T8R beamforming capability
- Optimized antenna array design for all 3.5 GHz beamforming combinations
- Maintains existing low and mid band RF performance
- New optimized form factor for reduced wind loading
- Lower antenna weight with new Integrated RF distribution design
- Excellent passive intermodulation (PIM) performance reduces harmful interference.
- Fully integrated internal (iRETs) with SBT for independent RET control on all bands



Electrical specification (minimum/maximum)	Ports	s 1, 2		Ports 3, 4, 5, 6	;
Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
Polarization	± 4	15°	± 45°		
Gain over all tilts, dBi	14.4	15.0	17.3	17.7	18.0
Horizontal beamwidth (HBW), degrees <sup>1</sup>	66	62	66	63.0	58.0
Front-to-back ratio, @180°, dB	>26.0	>27.0	>28.0	>26.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>20.0	>18.0	>19.0	>17.0	>17.0
Vertical beamwidth (VBW), degrees <sup>1</sup>	14	12	5.7	5.3	4.8
Electrical downtilt (EDT) range, degrees	2-14 0-9				
First upper side lobe (USLS) suppression, dB <sup>1</sup>	≤-16.0	≤-16.0	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB <sup>1</sup>	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1	/ -14.0	1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-1	53	-153		
Max input power per any port, watts	30	00		250	
Total composite power all ports (1-14), watts	1500				

<sup>1</sup> Typical value over frequency and tilt



### NWAV™ X-Pol 14-Port Antenna

Electrical specification (minimum/maximum)	Ports 7, 8, 9, 10, 11, 12, 13, 14
Frequency bands, MHz	3700-4200
Gain over all tilts, dBi	15.7
Horizontal beamwidth (HBW), degrees <sup>1</sup>	85
Horizontal beam width tolerance, degrees	±5
Front-to-back ratio, @180°, dB	27
Vertical beamwidth (VBW), degrees <sup>1</sup>	7.5
Vertical beam width tolerance, degrees	±0.3
Beam tilt, degrees	2-12
First upper side lobe (USLS) suppression, dB <sup>1</sup>	15
Coupling level, Amp, Antenna port to Cal port, dB	26
Coupling level, max Amp $\Delta$ , Antenna port to Cal port, dB	±0.7
Coupler, max Amp $\Delta$ , Antenna port to Cal port, dB	0.65
Coupler, max Phase $\Delta$ , Antenna port to Cal port, degrees	4
Cross-polar isolation, port-to-port, dB <sup>1</sup>	25
Isolation, Inter-band, dB	25
Max VSWR / return loss, dB	1.5 / -14.0
PIM, 3rd Order, 2 x 20 W, dBc	-145
Max input power per any port at 50 °C, watts	75

<sup>1</sup> Typical value over frequency and tilt

Electrical specification, Broadcast 65°	Ports 7, 8, 9, 10, 11, 12, 13, 14
Frequency bands, MHz	3700-4200
Gain over all tilts, dBi	21.2
Horizontal beamwidth (HBW), degrees1	65
Horizontal beamwidth tolerance, degrees	±4
Vertical beamwidth (VBW), degrees <sup>1</sup>	7.5
Vertical beamwidth tolerance, degrees	±0.3
First upper side lobe (USLS) suppression, dB <sup>1</sup>	<-16



### NWAV™ X-Pol 14-Port Antenna

Electrical specification, Service Beam	Ports 7, 8, 9, 10, 11, 12, 13, 14
Frequency bands, MHz	3700-4200
Steered 0° gain, dBi	21.2
Steered 0° Gain tolerance, dBi	±0.6
Steered 0° Beamwidth, Horizontal, degrees	24
Steered 0° CPR at beampeak, dB	18
Steered 0° Horizontal Sidelobe, dB	12
Steered 30° Gain, dBi (max)	20.5
Steered 30° Gain tolerance, dBi	±0.6
Steered 30° Gain, dBi	20.7
Steered 30° Beamwidth, Horizontal, degree	22
Steered 30° CPR at beampeak, dB	18
Steered 30° Horizontal Sidelobe, dB	10

Electrical specification, Soft Split	Ports 7, 8, 9, 10, 11, 12, 13, 14
Frequency bands, MHz	3700-4200
Gain over all tilts, dBi	19.8
Horizontal beamwidth (HBW), degrees <sup>1</sup>	33
First upper side lobe (USLS) suppression, dB <sup>1</sup>	15

Beamforming weighting table available upon request

Ordering information	
Antenna model	Description
MX14FIT665-01	6F X- Pol 14 Port FIT 65º 2-14º/ 0-9º/ 2-12º RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations
91900314-03	Dual Mount Bracket (see 91900314 bracket document for details)



### NWAV™ X-Pol 14-Port Antenna

Mechanical speci	ifications
------------------	------------

Dimensions height/width/depth, inches (mm)	72.0/ 14.2/ 8.5 (1828.8/ 360.7/ 215.9)
Shipping dimensions length/width/height, inches (mm)	82/20/15 (2082.8/508/381)
No. of RF input ports, connector type, and location	14 x 4.3-10 female, bottom
Calibration interface port, connector type & location	1 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	63 (28.57)
Shipping weight, lb (kg)	101 (45.81)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 12°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal and lateral wind loading @ 150 km/h, lbf (N)	67.0 (298.3), 28.1 (124.9)
Effective projected area (EPA) @ 150 km/h, Frontal & Lateral, ft2 (m2)	3.01 (0.28), 1.26 (0.12)



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### NWAV™ X-Pol 14-Port Antenna

Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9 or RF port bias-t
RET connector torque	Min 0.5 N $\cdot$ m to max 1.0 N $\cdot$ m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors and 3 RF port bias-ts
RET interface connector location	Bottom of the antenna
Total no. of internal RETs 698-894 MHz	1
Total no. of internal RETs 1695-2180 MHz	1
Total no. of internal RETs 3700-4200 MHz	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

#### **RET and RF connector topology**

Each RET device can be controlled either via the designated external AISG connector or RF smart bias-t port as shown below:



#### Array topology

4 sets of radiating arrays	Band	RF port
R1: 698-894 MHz B1: 1695-2180 MHz B2: 1695-2180 MHz P1: 3700-4200 MHz	698-894	1-2
	1695-2180	3-4
	1695-2180	5-6
	3700-4200	7-14

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## SAMSUNG

# AWS/PCS MACRO RADIO DUAL-BAND AND HIGH POWER

FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code

RF4439d-25A







Youtube www.youtube.com/samsung5g

## Points of Differentiation

#### **Continuous Migration**

Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



### **O-RAN** Compliant

A standardized O-RAN radio can help in implementing costeffective networks, which are capable of sending more data without compromising additional investments.

Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### **Optimum Spectrum Utilization**

The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Supports up to 7 carriers

# Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



Same as an incumbent radio volume

 2 FH connectivity
 O-RAN capability
 More carriers and spectrum

## Technical Specifications

ltem	Specification
Tech	LTE/NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

## SAMSUNG

# 700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code

RF4440d-13A





Homepage samsungnetworks.com



Youtube www.youtube.com/samsung5g

## Points of Differentiation

#### **Continuous Migration**

Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



### **Optimum Spectrum Utilization**

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Supports up to 5 carriers

## Technical Specifications

ltem	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

### **O-RAN** Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



## SAMSUNG

## 102 RRU Product Specification

for RT8808-77A

Specifies hardware configuration, functions, specifications, components, ports, and LED information for the radio units.

Document Version 1.0 June 2021

Document Number: 2600-00T7PZGA2

Radio Access Network

## SAMSUNG

Chapter 2 Overview

#### Figure 1. Appearance



The RT8808-77A can be mounted on a wall or pole as displayed in the following installation scenario:

## **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	Telcordia GR-63-CORE, Issue5,
Specification	Earthquake (Section 4.4.1)
Vibration Specification	Telcordia GR-63-CORE, Issue5,
	Office Vibration (Section 4.4.4)  Transportation (Vibration (Operation 4.4.5)
Altitude	Leicordia GR-63-CORE, ISSUE5,
	Annuale (Section 4.1.3)
Salety	
Installation	Pole, Wall, Tower

T

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

#### Site Name: WALLINGFORD 4 CT Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	2	616	1233	67.02	0.0099	0.5007	1.97%
VZW Cellular	874	2	660	1321	67.02	0.0106	0.5827	1.81%
VZW PCS	1975	4	1393	5573	67.02	0.0446	1.0000	4.46%
VZW AWS	2120	4	1513	6051	67.02	0.0485	1.0000	4.85%
VZW CBAND	3730.08	4	6531	26125	67.02	0.2092	1.0000	20.92%
Total Percentage	of Maximum Permissi	ble Exposure	9					34.01%

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992 \*\*Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz mW/cm^2 = milliwatts per square centimeter ERP = Effective Radiated Power

Absolute worst case maximum values used.



September 22, 2021

Mr. Andrew Leone Verizon Wireless 20 Alexander Drive Wallingford, CT 06492

Re: Structural Letter ~ Antenna Mounts Verizon – Site Ref: Wallingford 4 37 North Main Street Wallingford, CT 06492

Centek Project No. 21007.42

Dear Mr. Leone,

Centek Engineering, Inc. has reviewed the Verizon equipment upgrade at the above referenced site. The purpose of the review is to determine the structural adequacy of the existing mounts, RF transparent enclosures and host building to accommodate the proposed equipment configuration. The review considered the effects of wind load, dead load and ice load in accordance with the 2015 International Building Code as modified by the 2018 Connecticut State Building Code (CTBC).

The Verizon loads considered in this evaluation consist of the following:

#### Verizon (Proposed Final Configuration):

<u>All Sectors:</u> Three (3) JMA MX14FIT665-01 panel antennas and three (3) Commscope SDX1926Q-43 diplexers mounted within two (2) existing RF transparent enclosures on the roof of the host building with a RAD center elevation of +/- 67-ft AGL. Three (3) Samsung RF4439d-25A RRUs, three (3) Samsung RF4440d-13A RRUs, three (3) Samung RT-8808-77A RRUs and two (2) OVP boxes mounted within the building attic.

All antennas will be mounted within the existing enclosures resulting in no increase to the overall loading on the existing host building support framing above the original design.

Based on our review of the installation, it is our opinion that the subject mounts, RF transparent enclosures and host building **have sufficient capacity** to support the aforementioned equipment configuration. Our findings are based on the assumption that the hosting structure, all structural members and appurtenances were properly designed, detailed, fabricated, installed and have been properly maintained since erection. If there are any questions regarding this matter, please feel free to call

unnnn, Respectfully Submitted by: OF PROFESSI HOTES SIONAL Timothy J. Lynn, PE Structural Engineer

#### 37 NORTH MAIN ST

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XQ

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#### Lot Classification: Bus. District

N

98

S

301

150

Center St

Simoon

5

N Main

LOCATION: 37 NORTH MAIN ST **OWNER 1:** WALLACE REALTY INC OWNER 2: MAIL ADDRESS: 33 N MAIN ST MAIL CITY: WALLINGFORD MAIL STATE: CT MAIL ZIP: 06492 SALE DATE: 12/5/1990, 7:00 PM SALE PRICE: 0.00 OCC DESCRIPTION: MIXED USE M94 STYLE DESCRIPTION: Store/Apartment BUILDING LIVING AREA: 29868 YEAR BUILT: 1900 STORIES: 4 OCCUPANCY: 24 INTERIOR FLOOR 1: Carpet INTERIOR FLOOR 2: Hardwood INTERIOR WALL1: Drywall INTERIOR WALL 2: EXTERIOR WALL 1: Brick Veneer Zoom to

33>

\*\*\*

150 Center St

-

Ave

Wallace

5

S Main



UConn/CTDEE

Name and Address of Sender	TOTAL NO. TOTAL NO. of Pieces Listed by Sender of Pieces Received a	Affix Stamp Here				
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	Postmaster, per (name our acceiving employee)	DCT 07 2021	Postmark with Date of Receipt. neopost <sup>M</sup> 10/07/2021 US POSTAGE SOO2.999 ZIP 06103 041L12203937			
USPS® Tracking Number	Address	Postage Fee	Special Handling	Parcel Airlift		
Firm-specific Identifier	William W Dickinson Ir Mayor	USTS				
1.	Town of Wellingford					
	45 South Main Street					
	Wellingford CT 06402					
	wallingfold, C1 00492					
2.	Kevin Pagini, Town Planner					
	Town of Wallingford					
	45 South Main Street					
	Wallingford, CT 06492					
3	Wallace Realty Inc.					
	33 North Main Street					
	Wallingford, CT 06492					
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