From: Mayo, Rachel < rmayo@RC.com > Sent: Tuesday, March 29, 2022 12:46 PM

To: Bachman, Melanie < Melanie.Bachman@ct.gov >

Cc: Baldwin, Kenneth < KBALDWIN@RC.com >; Mayo, Rachel < rmayo@RC.com >

Subject: RE: Verizon Wireless Filing- Bethel

EXTERNAL EMAIL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Good Afternoon, we have been told that we are good to go and proceed with this one now.

Please see the attached final plans approved by Eversource for the council's use in continuing on with the review of our 3/14/22 filing.

Please let us know if you have any questions.

Thank you

### Rachel A. Mayo Land Use Analyst

Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103 Direct 860.275.8213 | Fax 860.275.8299 rmayo@rc.com | Bio | V-Card

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# Verizon<sup>V</sup>

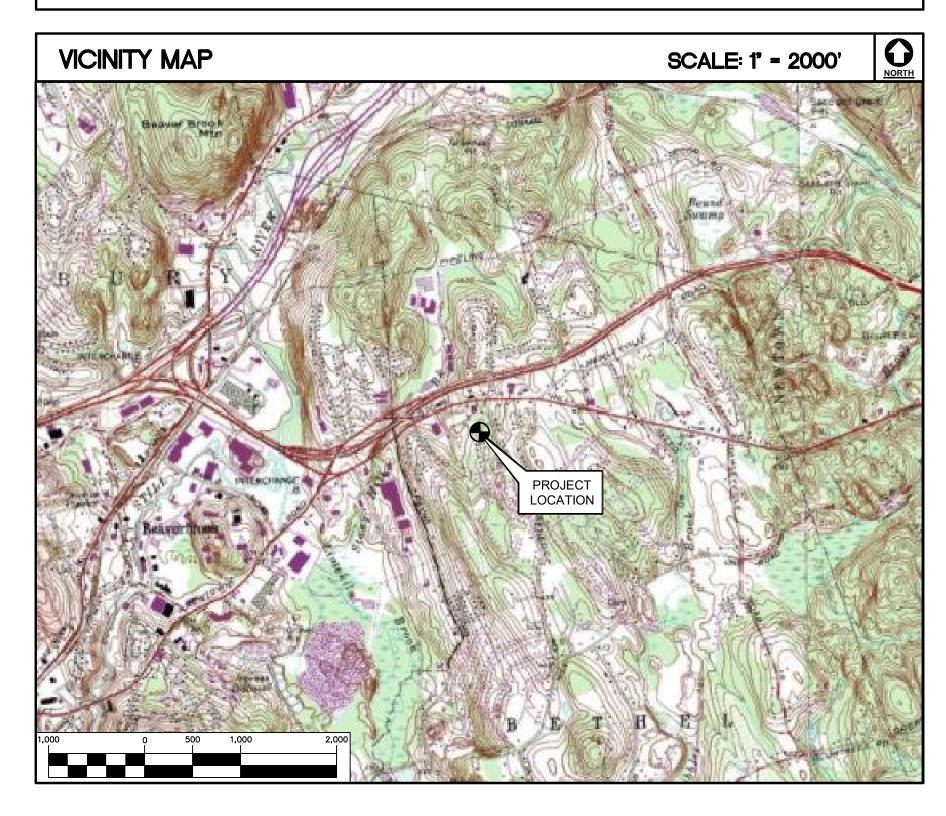
# BETHEL NORTH CT SKY EDGE LANE BETHEL, CT 06801

### GENERAL NOTES AND SPECIFICATIONS

- CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-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 PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR 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.
- 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 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 20. REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN 'AS-BUILT' SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- 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.
- 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. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
- 10. 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.
- 11. 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.

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING 13. 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.
  - 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
  - 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.
  - 16. 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.
  - 17. 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.
  - 18. 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.
  - 19. 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.
  - 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 PRIOR TO ANY EXCAVATION WORK. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
  - 21. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE GOVERNING BUILDING
  - 22. 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.
  - 23. 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, ANGLES WITH EXISTING CONDITIONS AND WITH ARCHITECTURAL AND SITE DRAWINGS BEFORE PROCEEDING WITH ANY WORK.
  - 24. 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.

### SITE DIRECTIONS FROM: 20 ALEXANDER DRIVE WALLINGFORD, CONNECTICUT TO: SKY EDGE LANE BETHEL, CT 06801 START OUT GOING NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD. TURN RIGHT ONTO BARNES INDUSTRIAL RD. TAKE THE 1ST LEFT ONTO CT-68 W. 4.40 MI 4. TURN RIGHT. 0.20 MI 5. TURN RIGHT ONTO N COLONY RD. 6. TURN RIGHT TO MERGE ONTO CT-15 N TOWARD HARTFORD. 0.50 MI MERGE ONTO CT-15 N. 3.10 MI B. USE THE MIDDLE LANE TO SAY ON CT-15 N. 0.10 MI 9. TAKE EXIT 68 W TO MERGE ONTO I-691 W TOWARD MERIDEN/WATERBURY. 7.70 MI 10. USE ANY LANE TO EXIT 1 FOR I-84 W TOWARD WATERBURY/DANBURY. 1.20 MI 11. MERGE ONTO I-84. 1.60 MI 12. KEEP LEFT TO STAY ON I-84. 21.6 MI 13. TAKE EXIT 8 T MERGE ONTO NEWTOWN RD TOWARD BETHEL. 0.30 MI 14. MERGE ONTO NEWTOWN RD. 0.20 MI 15. CONTINUE STRAIGHT TO STAY ON NEWTOWN RD. 0.10 MI 16. TURN LEFT ONTO US-6 E/NEWTOWN RD. 0.40 MI 17. TURN RIGHT ONTO SKY EDGE DR. 0.20 MI 18. CONTINUE ONTO SKY EDGE LN. ENTRANCE TO SITE WILL BE ON THE LEFT. 0.08 MI



### **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): 93 MPH (Vasd) (EXPOSURE B/IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) PER 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.

### PROJECT SUMMARY

- 1. THE PROPOSED UPGRADE SCOPE OF WORK AT THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY GENERALLY INCLUDES THE FOLLOWING:
- A. AT THE EXISTING UTILITY POLE MOUNTED ANTENNA SECTORS:
- REMOVE (6) EXISTING ANDREW ANTENNAS.
- RETAIN (12) EXISTING COAXIAL CABLES.
- INSTALL (3) SAMSUNG MT6407-77A ALL-IN-ONE ANTENNA/ RRUs.
- INSTALL (3) COMMSCOPE NNH4-65B-R6H4 ANTENNAS.
- INSTALL (6) COMMSCOPE CBC61923T-DS-43 TRIPLEXERS.
- INSTALL (1) 6x12 HYBRIFLEX CABLE ON EXTERIOR OF TOWER, CLEARLY LABELED "ENERGIZED". SAID CABLE DC POWER SUPPLY IS NOT TO EXCEED 48V.
- INSTALL (1) OVP-6 BOX.
- B. AT THE EXISTING EQUIPMENT SHELTER:
- REMOVE (3) EXISTING COMMSCOPE COMBINERS.
- REMOVE (6) EXISTING RFS DIPLEXERS.
- RETAIN (3) EXISTING SAMSUNG B2/B66A RRH-BR049.
- RETAIN (3) EXISTING SAMSUNG B5/B13 RRH-BR04C.
- INSTALL (6) COMMSCOPE CBC61923T-DS-43 TRIPLEXERS.
- INSTALL (3) COMMSCOPE TD-850B-LTE78-43 COMBINER.

# PROJECT INFORMATION

**ENGINEER:** 

SITE NAME: BETHEL NORTH CT SITE ADDRESS: SKY EDGE LANE BETHEL, CT 06801 LESSEE/TENANT: CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492 **CONTACT PERSON:** WALTER CHARCZNSKI (CONSTRUCTION MANAGER) VERIZON WIRELESS (860) 306-1806

CENTEK ENGINEERING, INC. 63-2 NORTH BRANFORD RD. BRANFORD, CT. 06405 (203) 488-0580

LATITUDE: 41° 24' 48.4884"N

LONGITUDE: 73° 24' 3.1392"W

(COORDINATES REFERENCED FROM VERIZON WIRELESS RFDS DATED 09/27/2021)

SHEET	INDEX	
SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	2
B-1	RF BILL OF MATERIALS	2
C-1	COMPOUND PLAN AND ELEVATION	2
C-2	ANTENNA SECTOR CONFIGURATION DETAILS	2
C-3	RF DETAILS	2
E-1	ELECTRICAL DETAILS AND SPECIFICATIONS	2

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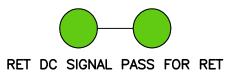
12/02/21 SCALE: AS NOTED JOB NO. 21007.74

> TITLE SHEET

# Commscope NNH4-65B-R6H4-V1 . . . . . Commscope NNH4-65B-R6H4-V1 L\_Sub6 MT6407-77A OUT IN -45 Commscope CBC61923T-DS-43 Commscope CBC61923T-DS-43 6 OVP Box Shared with all sector antennas UTILITY POLE SHELTER **EQUIPMENT PAD** Commscope CBC61923T-DS-43 Commscope CBC61923T-DS-43 Commscope TD-850B-LTE78-43 (1)B2/B66A RRH-BR049 (AISG OUT OUT) B5/B13 RRH-BR04C (RFV01U-D2A) 850 Cell AISG OUT

### PLUMBING DIAGRAM NOTES:

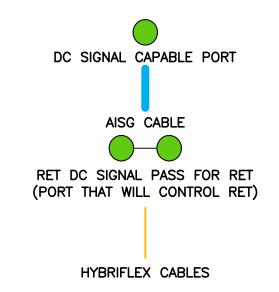
- 1. PORTS 1,2,3 & 4 ARE FOR LOW BAND (698-896 MHz).
- 2. PORTS 5,6,7,8,9,10,11 & 12 ARE FOR HIGH BAND (1695-2360 MHz).
- SMART BIAS TEE (SBT) IS THROUGH ANTENNA PORTS 1 & 4 FOR LOW BAND AND 5,7,10 &12 FOR HIGH BAND.
- 4. AISG CABLE IS ONLY NEEDED WHEN DRAWN IN THE DIAGRAMS ABOVE. IF IT IS NOT DRAWN THEN SBT IS ENOUGH TO CONTROL ALL RET MOTORS.
- 5. NOT ALL SBT PORTS ARE NEEDED TO CONTROL RET. ONLY GREEN PORT CONNECTION TO GREEN PORT WILL CONTROL



(PORT THAT WILL CONTROL RET)

PLUMBING DIAGRAM COMMENTS:

- A. DIAGRAMS SHOW ANTENNA PORT CONFIGURATIONS AS VIEWED FROM STANDING BEHIND THE ANTENNAS.
- B. ANTENNAS WILL BE INSTLLED IN THAT ORDER FROM LEFT TO
- C. CAP AND WEATHERPROOF UNUSED ANTENNA PORTS.
- D. ALL PLUMBING DIAGRAM COLORS ARE IRRELEVANT EXCEPT FOR AISG AND HYBRIFLEX CABLE. (FOR THE COAX COLORS, FOLLOW COAX COLORS GUIDE ABOVE)



### NOTES:

CABLES

SIDE-BY-SIDE MOUNTING KIT

LTE AWS 2100

- . INFORMATION SHOWN HEREIN IS FOR USE BY VERIZON WIRELESS EQUIPMENT OPERATIONS.
- 2. THIS B.O.M. DRAWING IS BASED ON FACILITY UPGRADE DESIGN DRAWINGS PREPARED BY CENTEK ENGINEERING (REV.2 DATED: 03/22/22), & VERIZON WIRELESS RF ANTENNA EQUIPMENT RECOMMENDATION (DATED 09/27/2021).

	BILL OF MATE	RIALS
TECHNOLOGY	QUANTITY	ANTENNA
LTE 700		
LTE 850	6	COMMISCORE ANTENNA MOREL. NAULA GER RELIA
LTE PCS 1900	6	COMMSCOPE ANTENNA MODEL: NNH4-65B-R6H4
LTE AWS 2100		
5G	3	SAMSUNG ANTENNA MODEL: MT6407-77A

COMMENTS

INTEGRATED INTO MT6407-77A ANTENNA

HYBRID CABLE	1 ±287 FT E	6X12 HYBRIFLEX CABLE
RADIOS	QUANTITY	COMMENTS
LTE 700		
LTE 850	0	_
LTE PCS 1900		

QUANTITY LENGTH EA

TRIPLEXERS	QUANTITY	COMMENTS
COMMSCOPE	12	COMMSCOPE MODEL: CBC61923T-DS-43

OVP BOXES	QUANTITY	COMMENTS
OVP	1	RFS MODEL: DB-B1-6C-12AB-0Z
ANTENNA MOUNT	QUANTITY	COMMENTS

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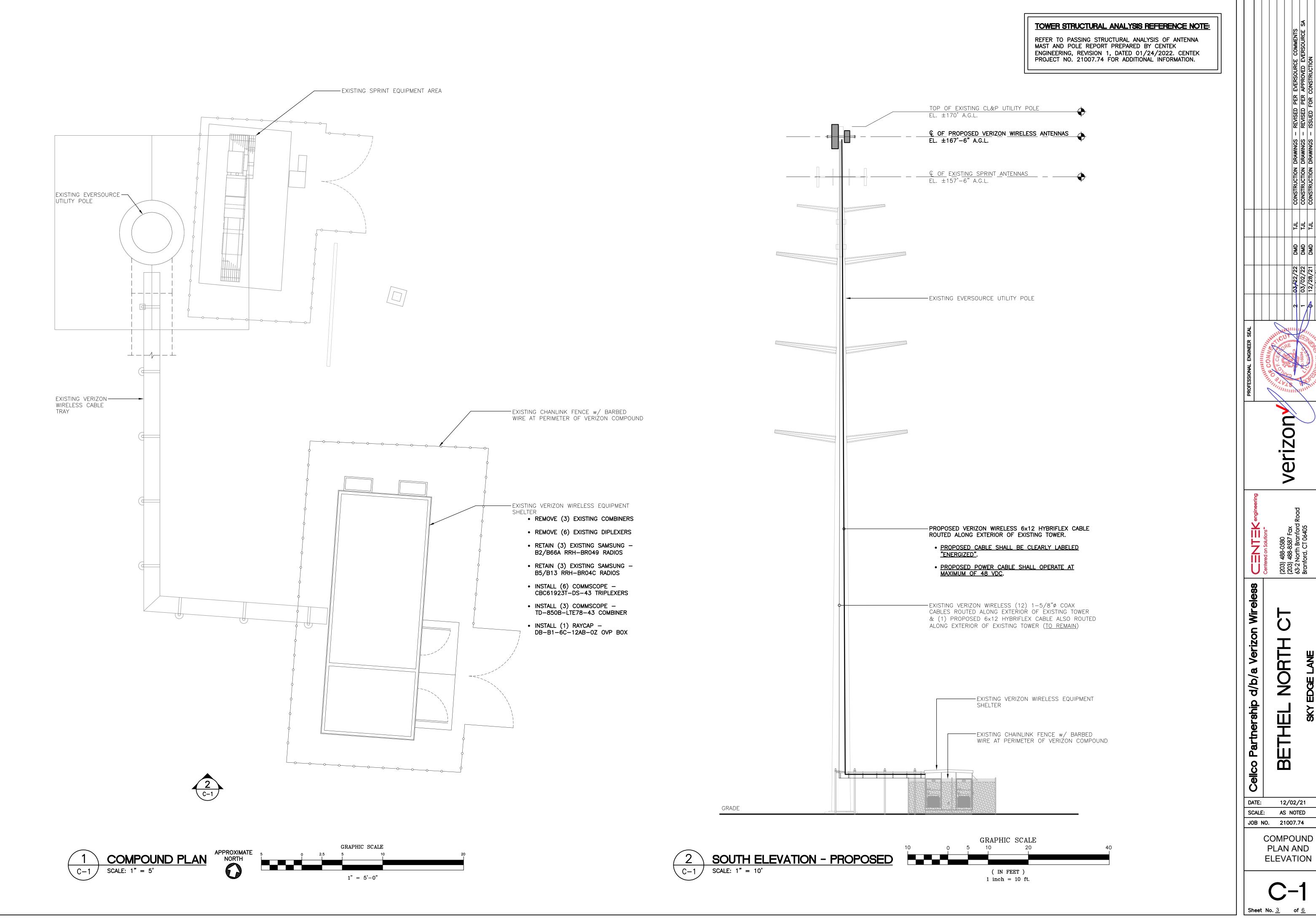
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SKY EDGE LANE BETHEL, CT 06801 BETHEL

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> RF BILL OF MATERIALS

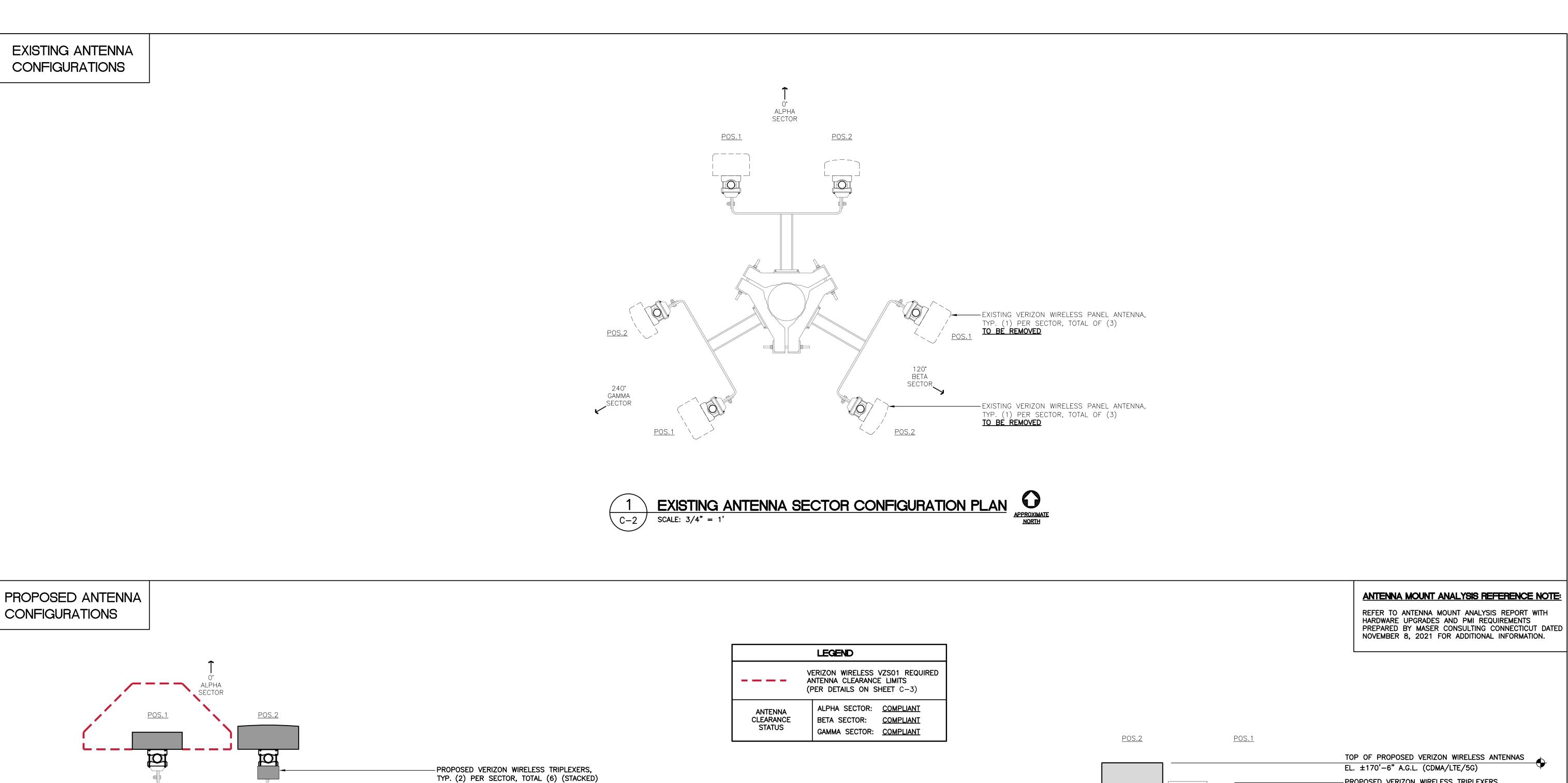
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BETHEL

12/02/21



NOT TO SCALE

(P/N: COMMSCOPE - CBC61923T-DS-43)

-PROPOSED VERIZON WIRELESS OVP-6 BOX, (P/N: RAYCAP - DB-B1-6C-12AB-0Z). SEE

DETAIL 2/C-2 FOR MOUNTING HARDWARE.

REFER TO THE <u>ANTENNA MOUNT ANALYSIS</u>
 <u>REFERENCE NOTE</u> ON THIS SHEET FOR
 REQUIREMENTS ASSOCIATED WITH THE

INSTALLATION OF THE OVP BOX AND

OTHER INFORMATION AND REQUIREMENTS.

-PROPOSED VERIZON WIRELESS PANEL ANTENNA,

-PROPOSED VERIZON WIRELESS PANEL ANTENNAS,

TYP. (1) PER SECTOR, TOTAL (3) (P/N: SAMSUNG - MT6407-77A)

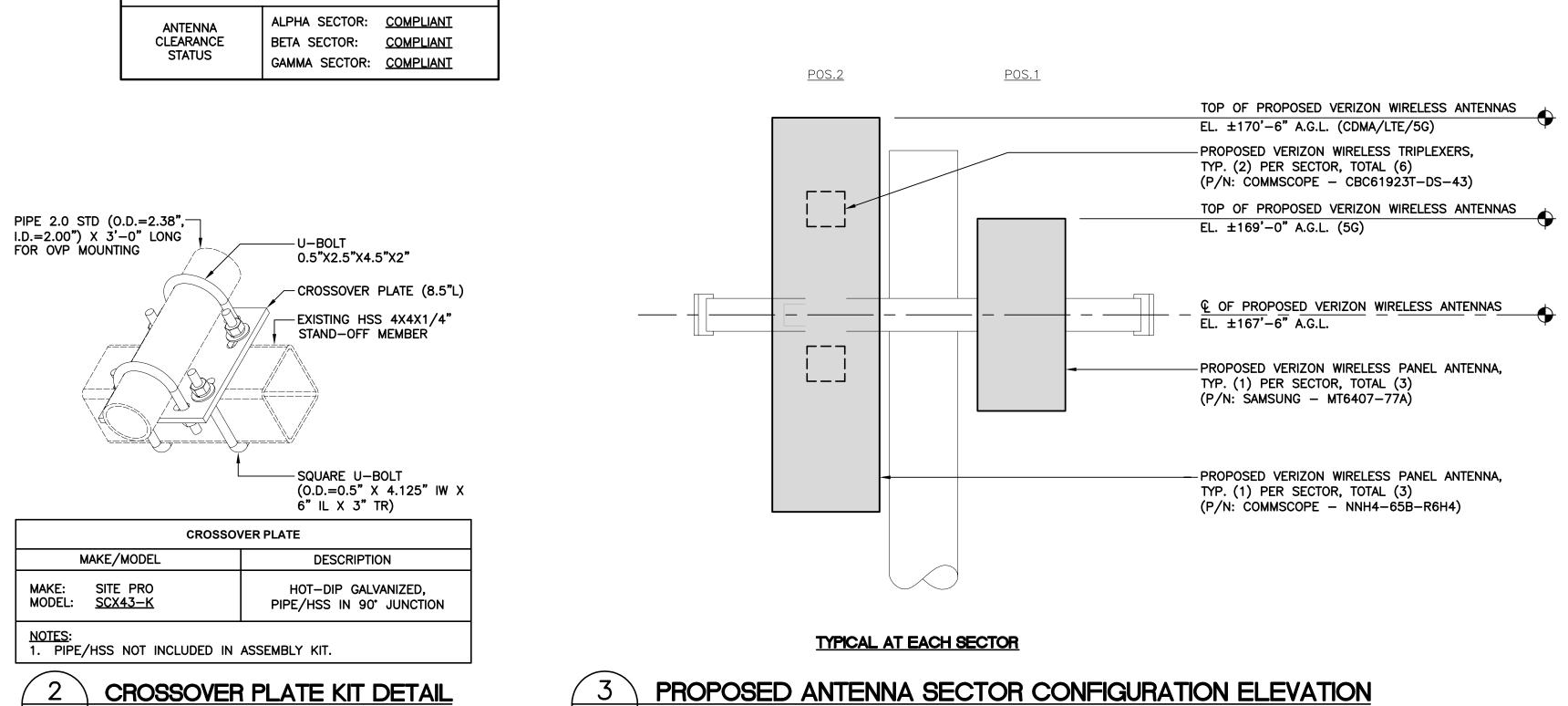
TYP. (1) PER SECTOR, TOTAL (3)

PROPOSED ANTENNA SECTOR CONFIGURATION PLAN

(P/N: COMMSCOPE - NNH4-65B-R6H4)

240° GAMMA SECTOR

SCALE: 3/4" = 1'



SCALE: 3/4" = 1'

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12/02/21

ANTENNA SECTOR CONFIGURATION

**DETAILS** 

SCALE: AS NOTED

JOB NO. 21007.74



		COMBINER		
	EQUIPMENT	DESCRIPTION	DIMENSIONS	WEIGHT
MAKE: MODEL:	COMMSCOPE TD-850B-LTE78-43	TWIN IN-BAND DIPLEXER 850MHz	15.4"H x 15.2"W x 6.4"D	52.9 LBS.

NOTES:

1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.





		TRIPLEXER		
	EQUIPMENT	DESCRIPTION	DIMENSIONS	WEIGHT
MAKE: MODEL:	COMMSCOPE CBC61923T-DS-43	TWIN TRIPLEXER 555-894/PCS/AWS+WCS	6.9"H x 7.8"W x 4.2"D	12.8 LBS. (W/MNTG HDWR)
	ITRACTOR TO COORDINA IAGER PRIOR TO ORDEI	ATE FINAL EQUIPMENT MODEL SELECTION	ON WITH VERIZON WIRELES	S CONSTRUCTION







	OVP BOX	
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: RFS MODEL: DB-B1-6C-12AB-0Z	29.0"H x 15.7"W x 10.3"D	32 LBS.
NOTES:  1. CONTRACTOR TO CONFIRM OVP VERIZON WIRELESS CONSTRUCT	BOX MAKE/MODEL AND QUANTON MANAGER PRIOR TO ORDE	TITY WITH RING.

OVER-VOLTAGE PROTECTION BOX DETAIL

NOT TO SCALE



### **ANTENNA FRONT**

	SECTOR AN	NTENNA	
EQUIPMENT	DIMENSIONS		WEIGHT
MAKE: SAMSUNG MODEL: MT6407-77A	35.1"h x 16.1 (NOT TO E		87 LBS. (NOT TO EXCEED)
CLEARANCES AND SERVI	CE AREA		
TOP:	31.5"	HORIZONTAL (ANT. TO ANT	- · - · · · · · - <del>-</del> ·         - · · · ·
FRONT, SIDES & BOTTON	Λ: 15.7 <b>"</b>	VERTICAL DIS (ANT. TO ANT.	· · · · · - <del>-</del> · · · · · · · · · · · · · · · · · · ·
NOTES: 1. THIS ANTENNA HAS	ITS OWN BUILT-	-IN RRH.	







**BOTTOM** 

**ELEVATION - FRONT** 

	12	2-PORT SECTOR ANTENNA	
EQUIPMEN	NT	DIMENSIONS	WEIGHT
MAKE: MODEL:	COMMSCOPE NNH4-65B-R6H4	72"L x 19.6"W x 7.7"D	84.4 LBS. (W/OUT MOUNT KIT)



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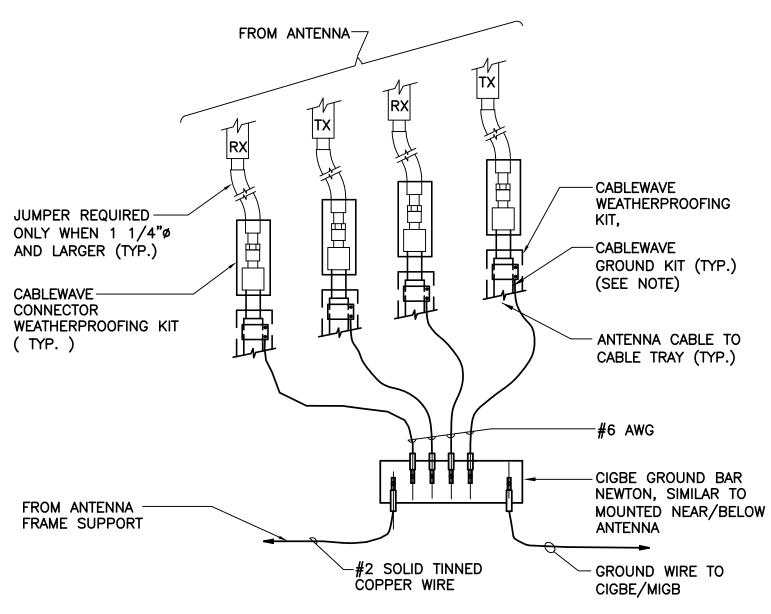
SKY EDGE LANE BETHEL, CT 06801

NORTH CT BETHEL

Cellco Partnership d/b/a Verizon Wirele DATE: 12/02/21
SCALE: AS NOTED

JOB NO. 21007.74

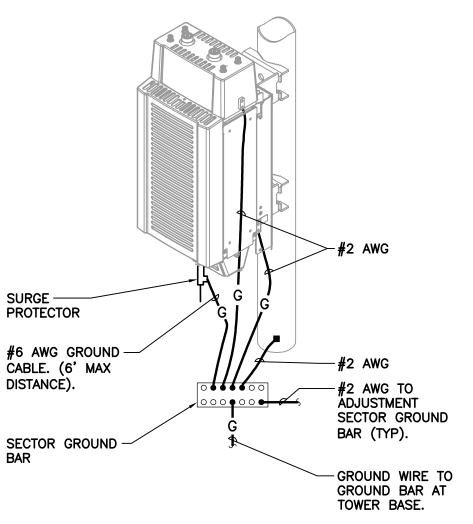
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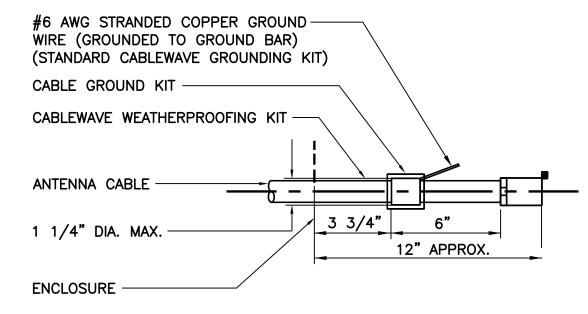
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

### CONNECTION OF GROUND WIRES TO GROUND BAR NOT TO SCALE

EACH RRH CABINET SHALL BE GROUNDED IN THE FOLLOWING MANNER: 1. AT TOP OF THE CABINET 2. AT RIGHT SIDE OF THE CABINET.



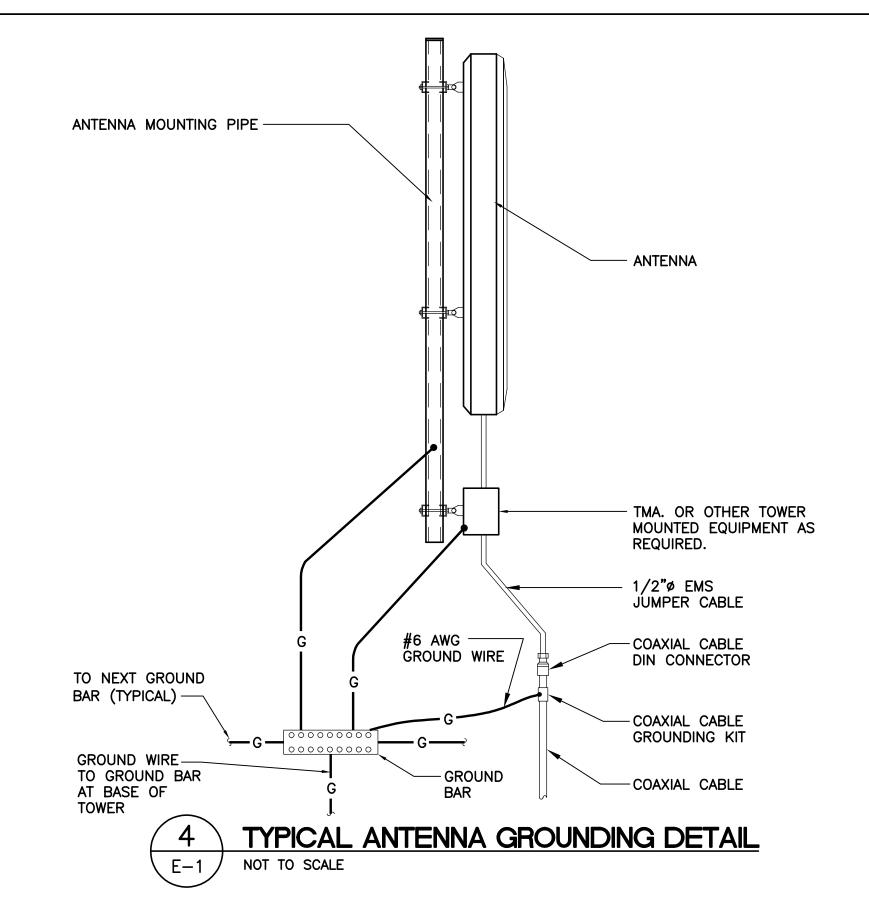
# RRH POLE MOUNT GROUNDING NOT TO SCALE

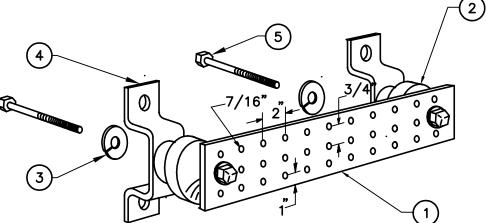


### NOTES:

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

ANTENNA CABLE GROUNDING DETAIL NOT TO SCALE





### **NOTES**

- TINNED COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4.
- 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO.
- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056.
- 5/8-11 x 1" STAINLESS STEEL TRUSS SPANNER MACHINE



# **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,

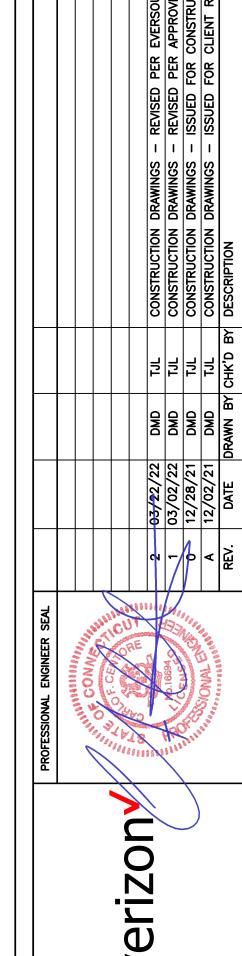
### 1.02. GENERAL REQUIREMENTS

- 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
- 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
- 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.
- 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
- 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 OBTAIN ALL SUCH SPECIFICATIONS AND REQUIREMENTS. NOTHING CONTAINED IN, OR

- 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,

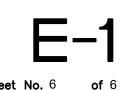
- 1. GROUND BARS 2. ANTENNA GROUND CONNECTIONS AND PLATES.
- E. ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C., MFG. SPECIFICATIONS, AND OWNER'S SPECIFICATIONS.



B

12/02/21 SCALE: AS NOTED JOB NO. 21007.74

ELECTRICAL **DETAILS AND SPECIFICATIONS** 



SPECIFICATIONS, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPROPRIATE INDIVIDUALS TO 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.