

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

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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

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Our cross-disciplinary team continues to closely monitor COVID-19 legal implications - resources [HERE](#)

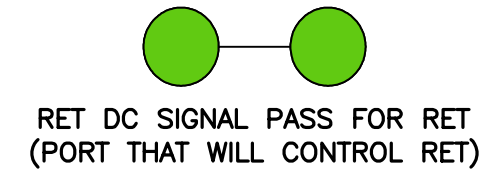
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Commscope NNH4-65B-R6H4-V1



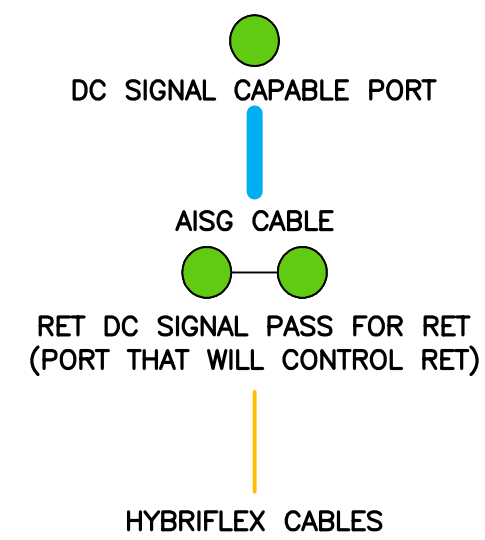
PLUMBING DIAGRAM NOTES:

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).
3. 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 RET.



PLUMBING DIAGRAM COMMENTS:

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



NOTES:

- INFORMATION SHOWN HEREIN IS FOR USE BY VERIZON WIRELESS EQUIPMENT OPERATIONS.
- 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 MATERIALS		
TECHNOLOGY	QUANTITY	ANTENNA
LTE 700	6	COMMSCOPE ANTENNA MODEL: NNH4-65B-R6H4
LTE 850		
LTE PCS 1900		
LTE AWS 2100	3	SAMSUNG ANTENNA MODEL: MT6407-77A
5G		

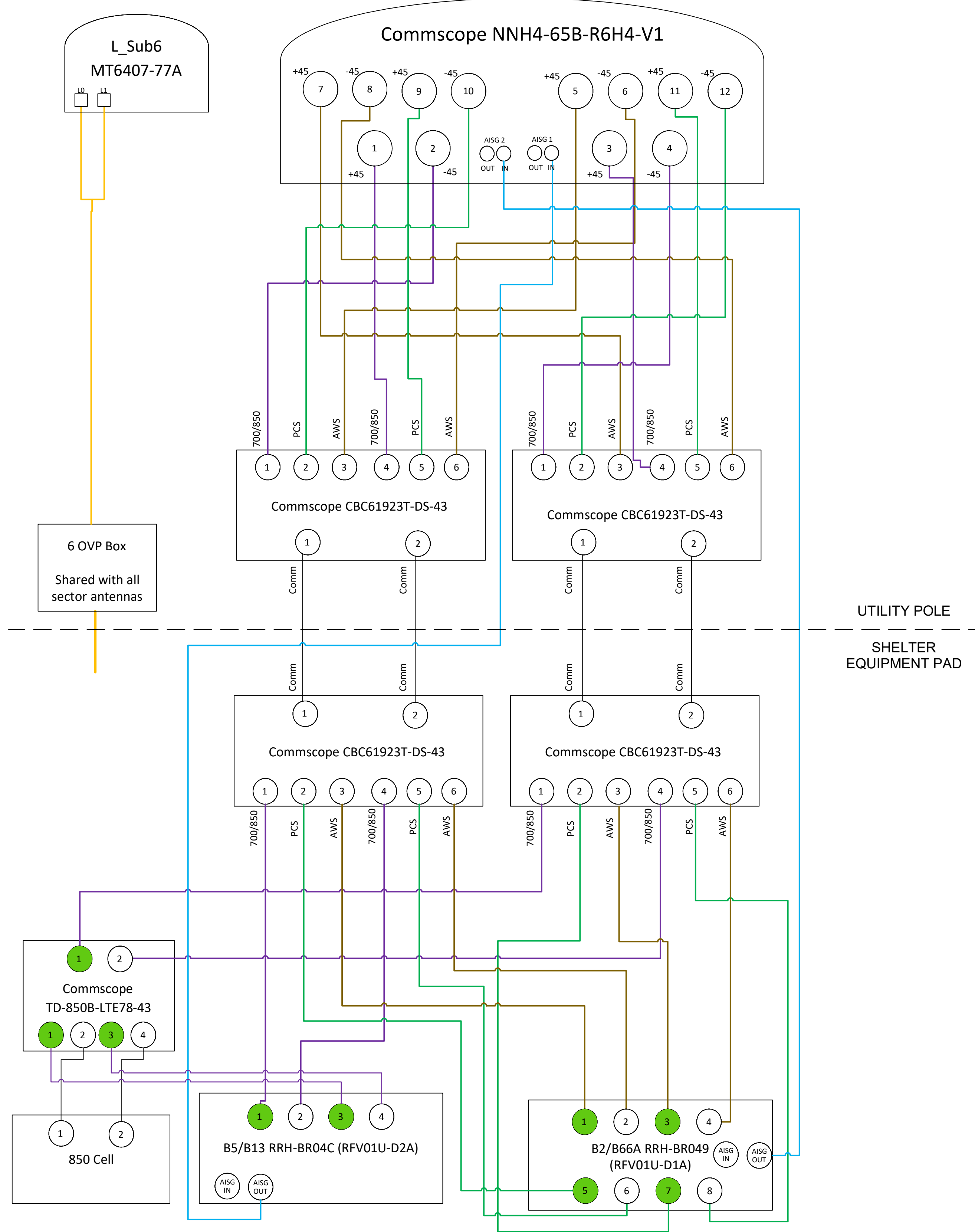
CABLES	QUANTITY	LENGTH EA	COMMENTS
HYBRID CABLE	1	±287 FT EA	6X12 HYBRIFLEX CABLE

RADIOS	QUANTITY	COMMENTS
LTE 700	0	-
LTE 850		
LTE PCS 1900		
LTE AWS 2100		
5G	3	INTEGRATED INTO MT6407-77A ANTENNA

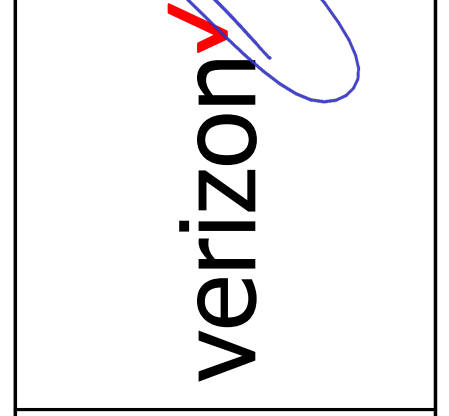
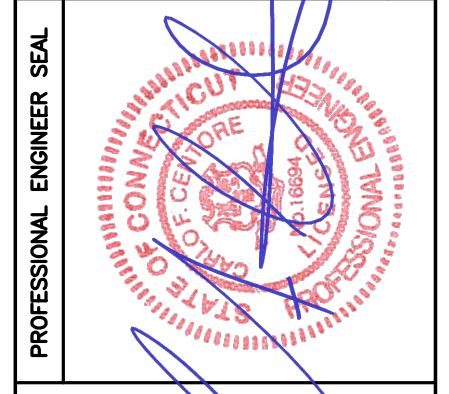
TRIPLEXERS	QUANTITY	COMMENTS
COMMSCOPE	12	COMMSCOPE MODEL: CBC61923T-DS-43

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

ANTENNA MOUNT	QUANTITY	COMMENTS
SIDE-BY-SIDE MOUNTING KIT	0	-



REV.	DATE	BY	CHK'D BY	DESCRIPTION
2	03/22/22	DWA	TUL	CONSTRUCTION DRAWINGS - REVISED PER EVERSOURCE COMMENTS
1	03/02/22	DWA	TUL	CONSTRUCTION DRAWINGS - REVISED PER APPROVED EVERSOURCE SA
1	12/28/21	DWA	TUL	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
A	12/02/21	DWA	TUL	CONSTRUCTION DRAWINGS - ISSUED FOR CLIENT REVIEW



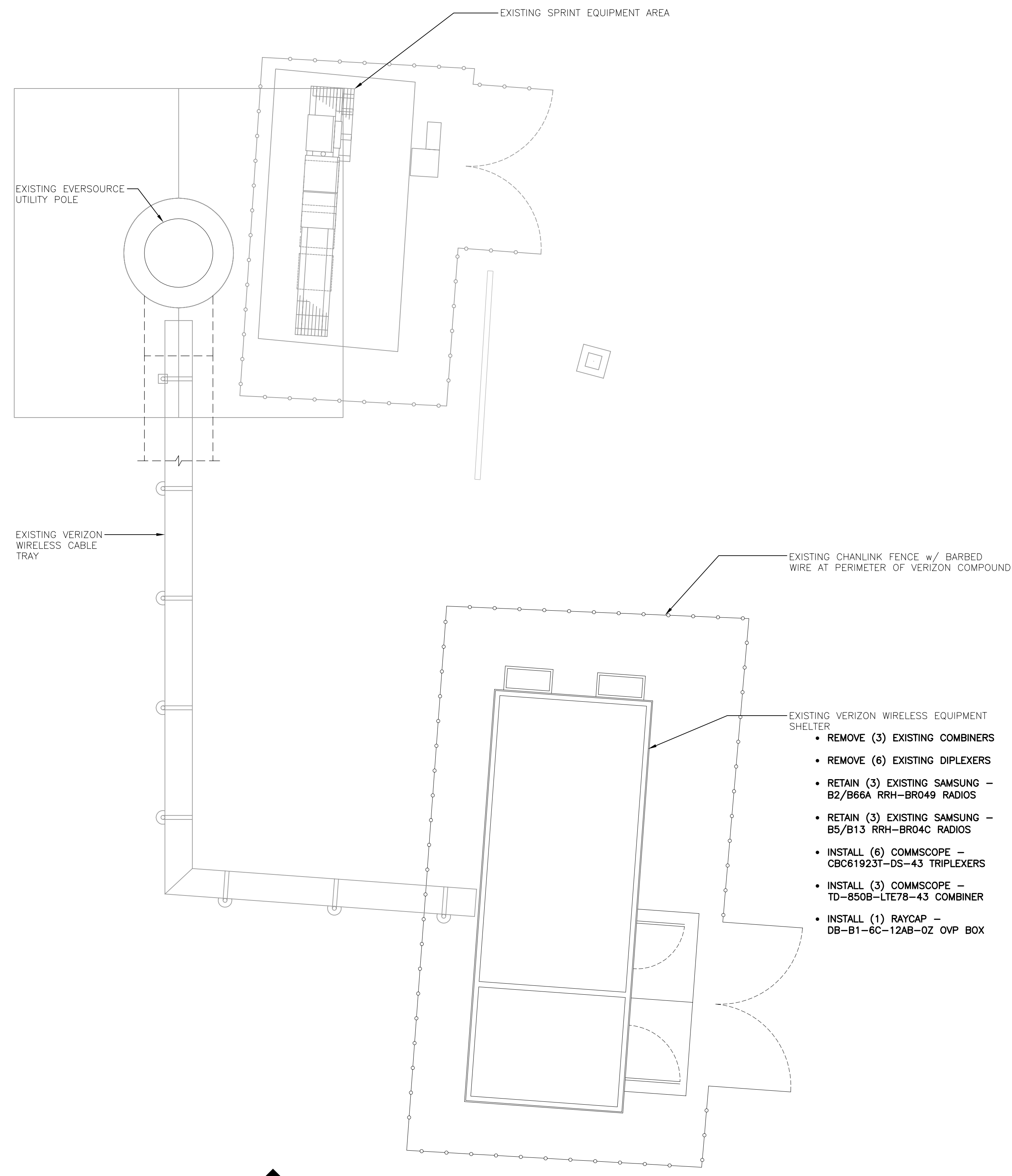
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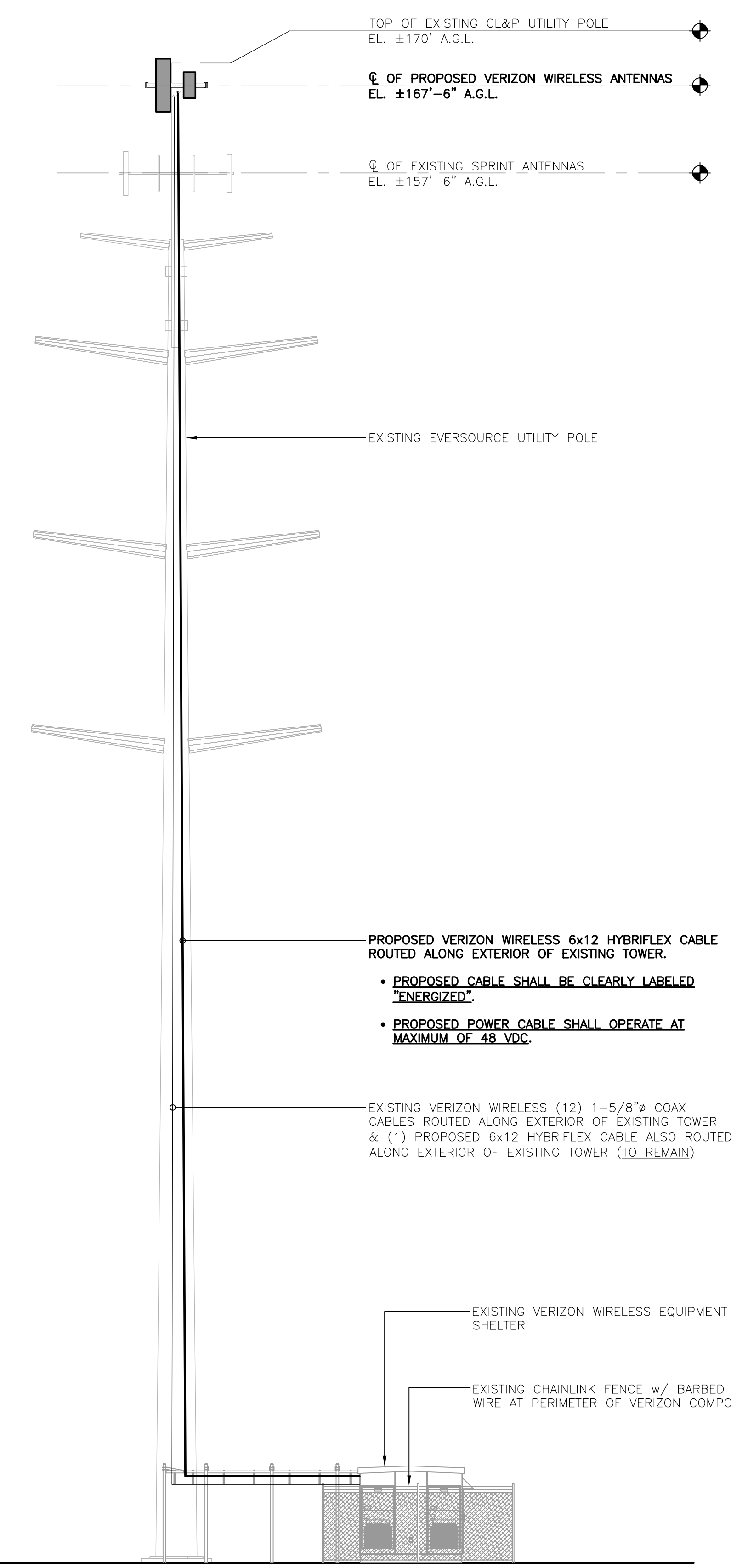
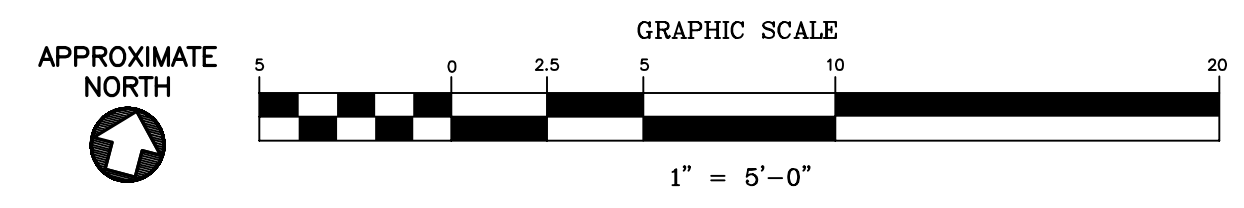
DATE: 12/02/21
 SCALE: AS NOTED
 JOB NO. 21007.74

RF BILL OF MATERIALS

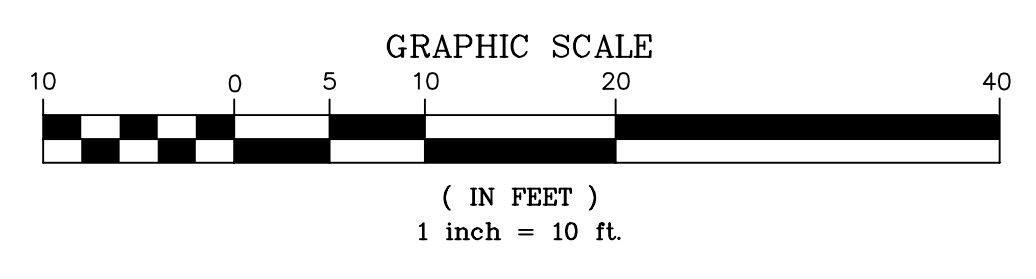
TOWER STRUCTURAL ANALYSIS REFERENCE NOTE:
 REFER TO PASSING STRUCTURAL ANALYSIS OF ANTENNA MAST AND POLE REPORT PREPARED BY CENTEK ENGINEERING, REVISION 1, DATED 01/24/2022. CENTEK PROJECT NO. 21007.74 FOR ADDITIONAL INFORMATION.



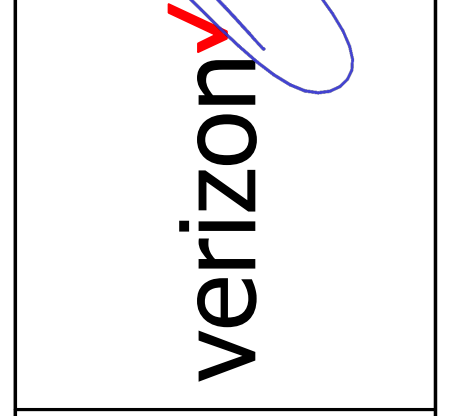
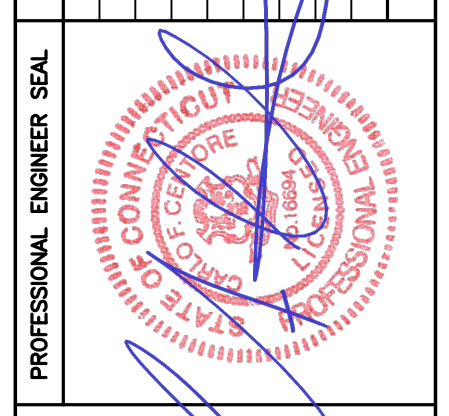
1
 C-1
COMPOUND PLAN
 SCALE: 1" = 5'



2
 C-1
SOUTH ELEVATION - PROPOSED
 SCALE: 1" = 10'



REV.	DATE	BY	CHK'D BY	DESCRIPTION
2	03/02/23	DWD	TUL	CONSTRUCTION DRAWINGS - REISED PER EVERSOURCE COMMENTS
1	03/02/23	DWD	TUL	CONSTRUCTION DRAWINGS - REISED PER APPROVED EVERSOURCE SA
A	12/02/21	DWD	TUL	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
A	12/02/21	DWD	TUL	CONSTRUCTION DRAWINGS - ISSUED FOR CLIENT REVIEW



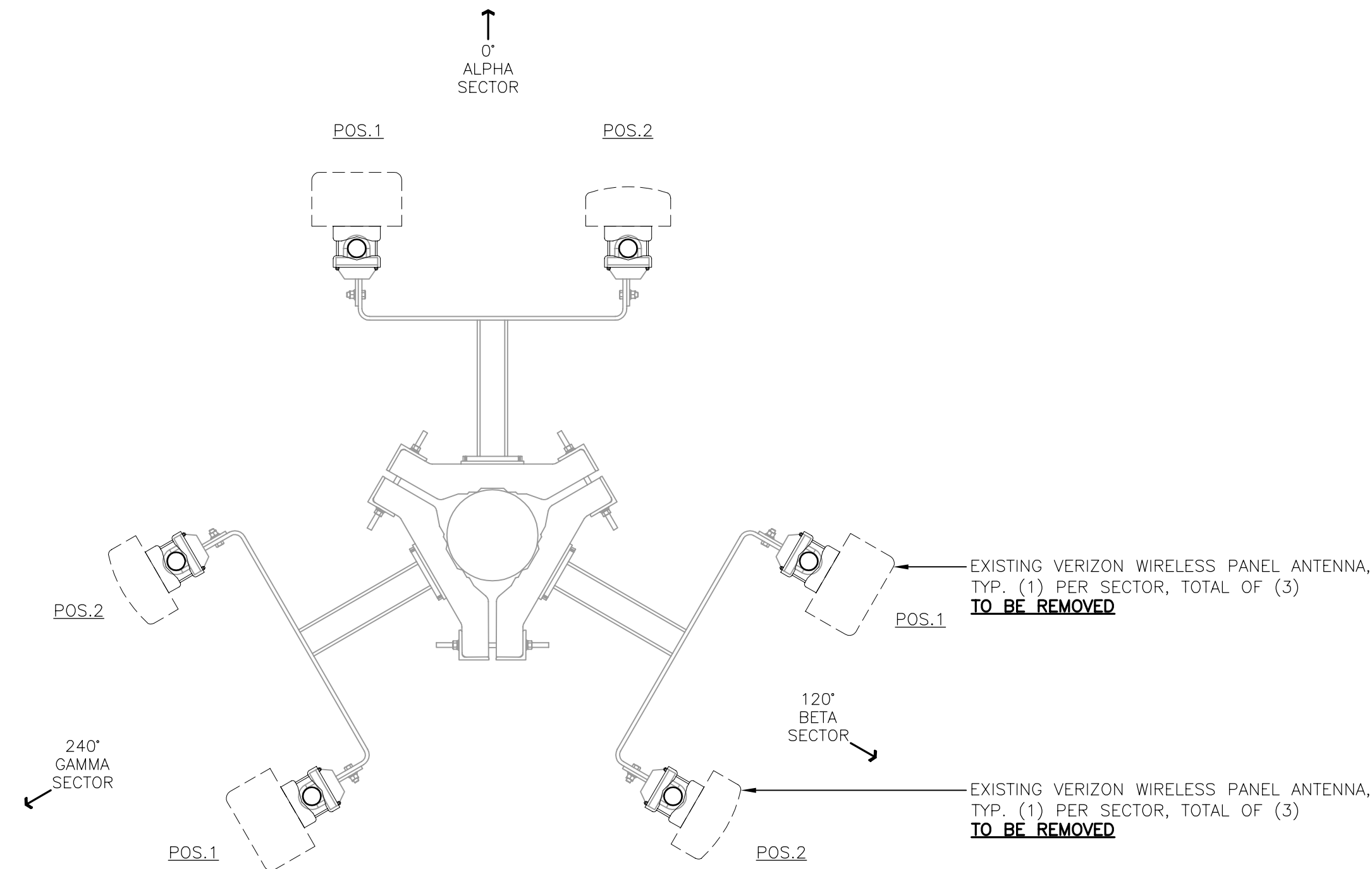
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COMPOUND
 PLAN AND
 ELEVATION

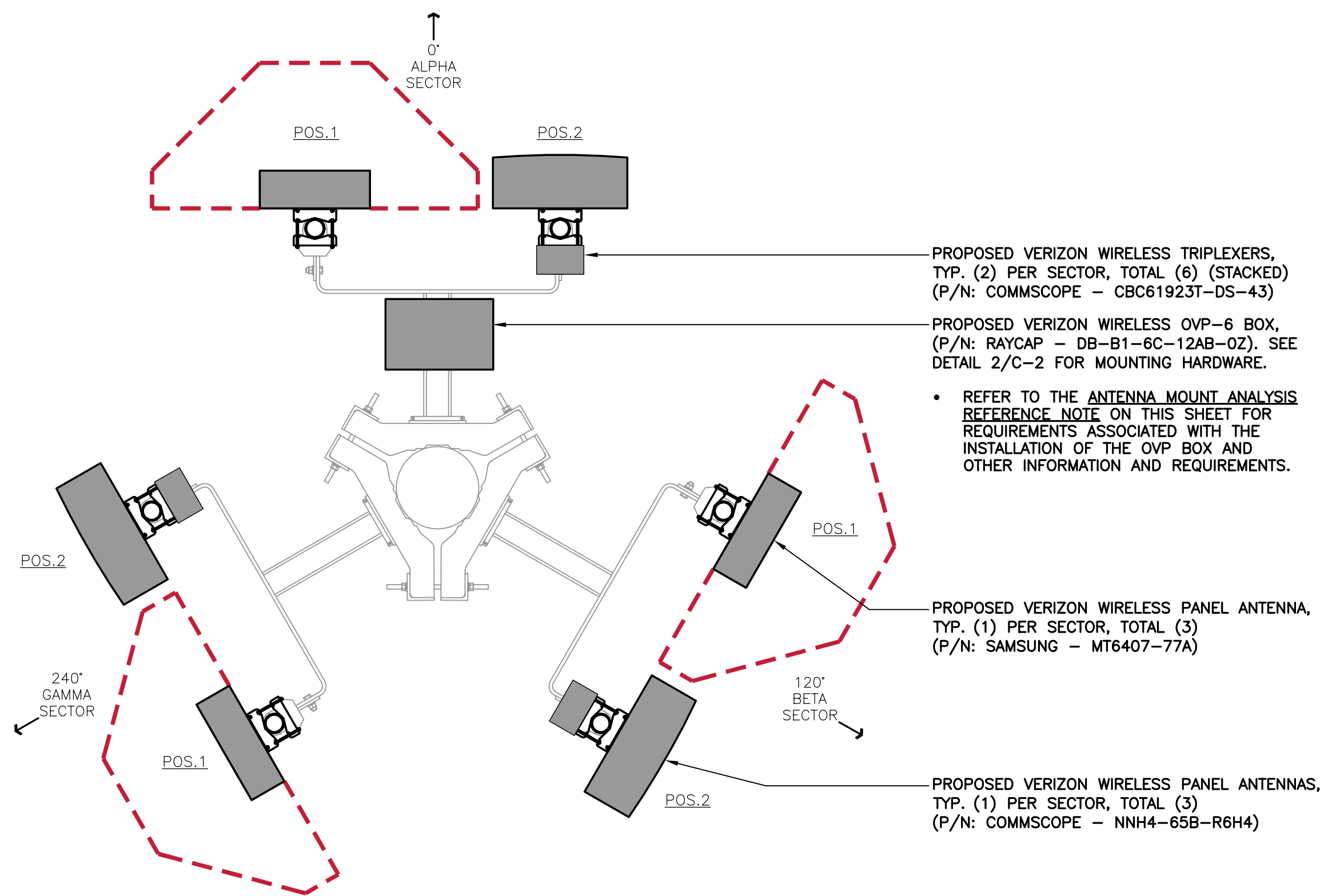
EXISTING ANTENNA CONFIGURATIONS



1 EXISTING ANTENNA SECTOR CONFIGURATION PLAN
 C-2 SCALE: 3/4" = 1' APPROXIMATE NORTH

PROPOSED ANTENNA CONFIGURATIONS

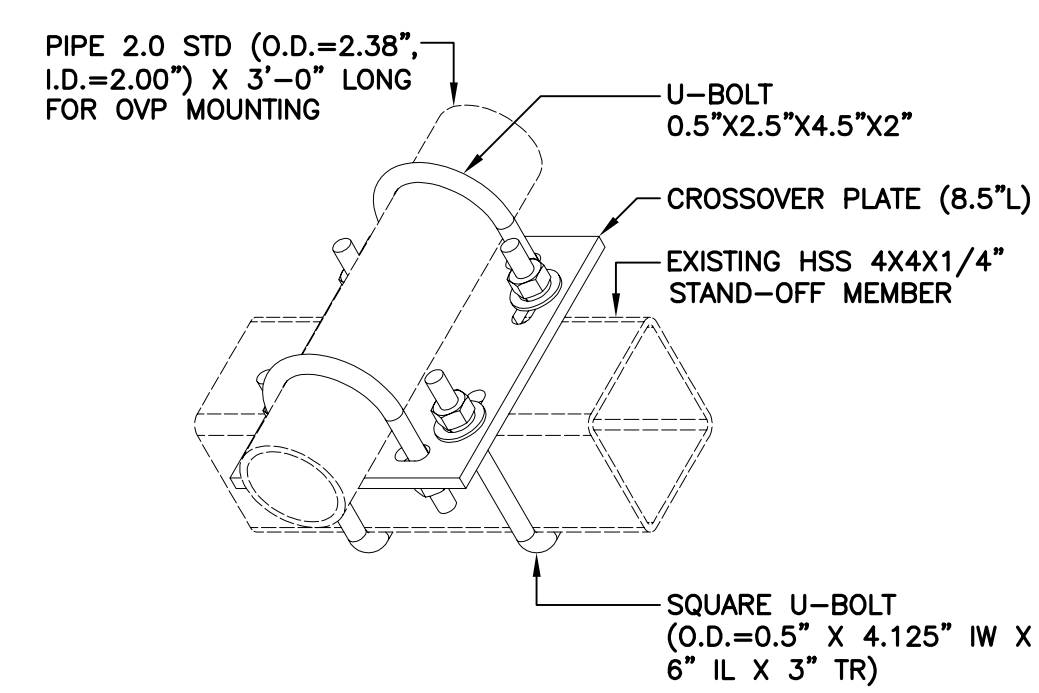
ANTENNA MOUNT ANALYSIS REFERENCE NOTE:
 REFER TO ANTENNA MOUNT ANALYSIS REPORT WITH HARDWARE UPGRADES AND PMI REQUIREMENTS PREPARED BY MASER CONSULTING CONNECTICUT DATED NOVEMBER 8, 2021 FOR ADDITIONAL INFORMATION.



LEGEND

--- VERIZON WIRELESS VZS01 REQUIRED ANTENNA CLEARANCE LIMITS (PER DETAILS ON SHEET C-3)

ANTENNA CLEARANCE STATUS	ALPHA SECTOR: COMPLIANT
	BETA SECTOR: COMPLIANT
	GAMMA SECTOR: COMPLIANT

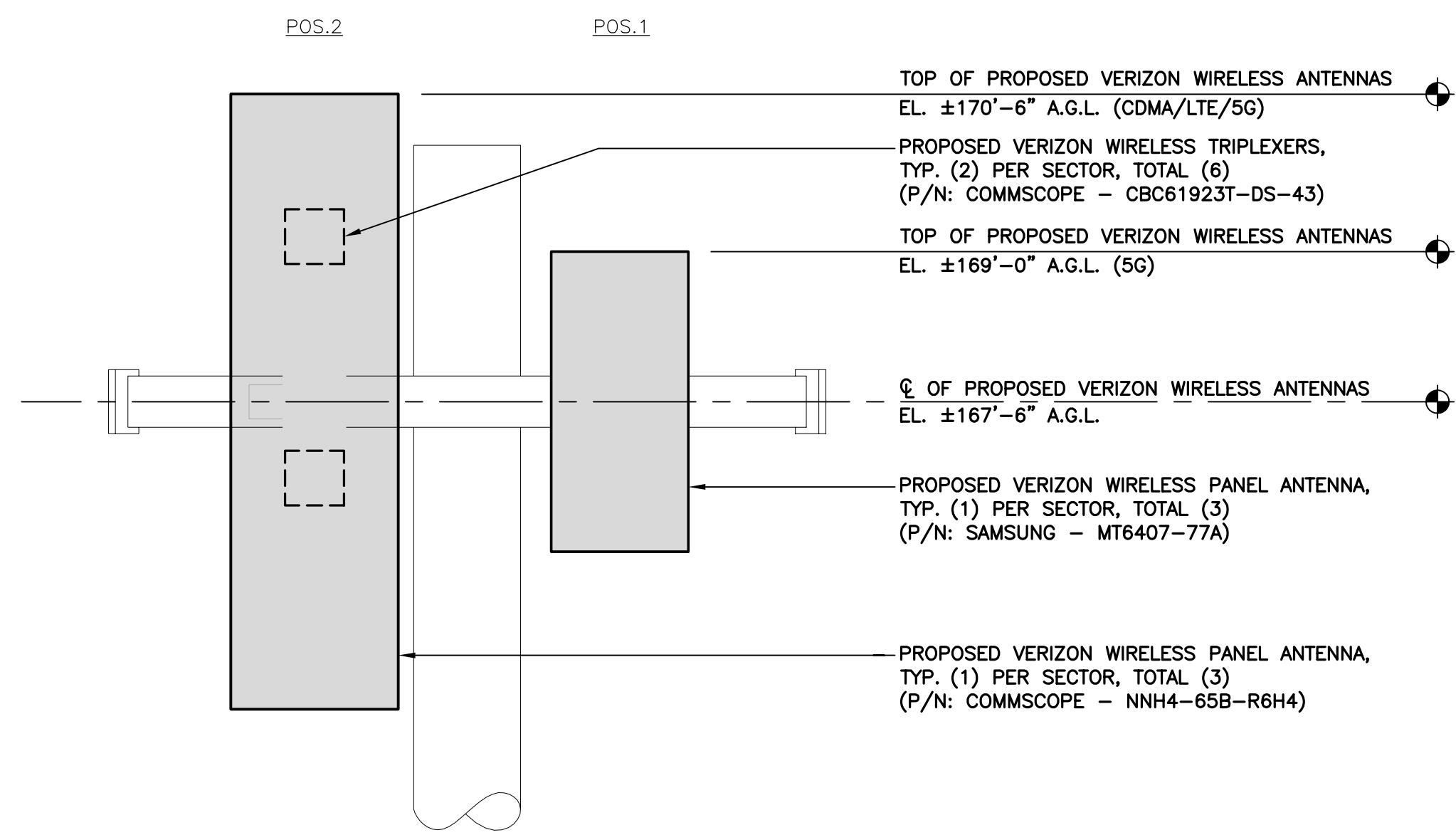


CROSSOVER PLATE

MAKE/MODEL	DESCRIPTION
MAKE: SITE PRO MODEL: SCX43-K	HOT-DIP GALVANIZED, PIPE/HSS IN 90° JUNCTION

NOTES:
 1. PIPE/HSS NOT INCLUDED IN ASSEMBLY KIT.

2 CROSSOVER PLATE KIT DETAIL
 C-2 NOT TO SCALE

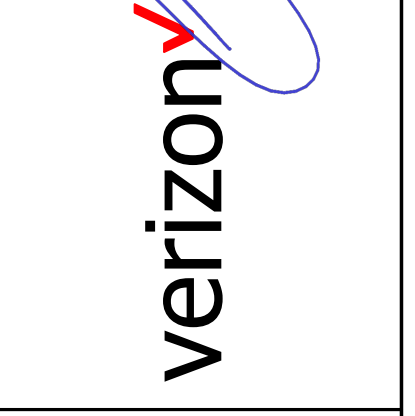
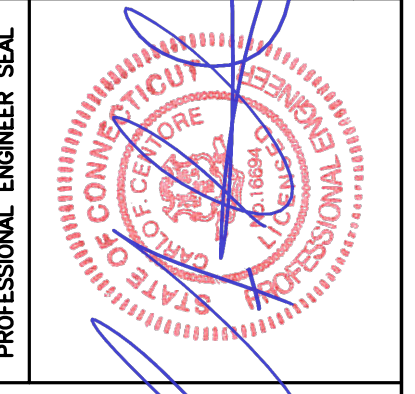


TYPICAL AT EACH SECTOR

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

1A PROPOSED ANTENNA SECTOR CONFIGURATION PLAN
 C-2 SCALE: 3/4" = 1' APPROXIMATE NORTH

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ANTENNA SECTOR CONFIGURATION DETAILS



COMBINER			
EQUIPMENT	DESCRIPTION	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: 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.

1
C-3 **COMBINER DETAIL**
NOT TO SCALE



TRIPLEXER			
EQUIPMENT	DESCRIPTION	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: 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)

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

2
C-3 **TRIPLEXER DETAIL**
NOT TO SCALE



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 BOX MAKE/MODEL AND QUANTITY WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.

3
C-3 **OVER-VOLTAGE PROTECTION BOX DETAIL**
NOT TO SCALE



ANTENNA FRONT

SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: MT6407-77A	35.1"H x 16.1"W x 5.5"D (NOT TO EXCEED)	87 LBS. (NOT TO EXCEED)

CLEARANCES AND SERVICE AREA			
TOP:	31.5"	HORIZONTAL DISTANCE:	31.5" (ANT. TO ANT.)
FRONT, SIDES & BOTTOM:	15.7"	VERTICAL DISTANCE:	63.0" (ANT. TO ANT.)

NOTES:
1. THIS ANTENNA HAS ITS OWN BUILT-IN RRH.

4
C-3 **ANTENNA DETAIL**
NOT TO SCALE



ELEVATION - FRONT

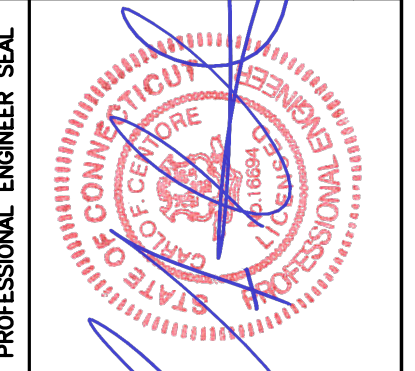


BOTTOM

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

5
C-3 **ANTENNA DETAIL**
NOT TO SCALE

REV.	DATE	BY	CHK'D BY	DESCRIPTION
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RF DETAILS

