



# WEST HARTFORD CENTER CT

14-20 ISHAM ROAD  
WEST HARTFORD, CT 06107

FUZE PROJECT ID: 17082761

PSLC: 535840



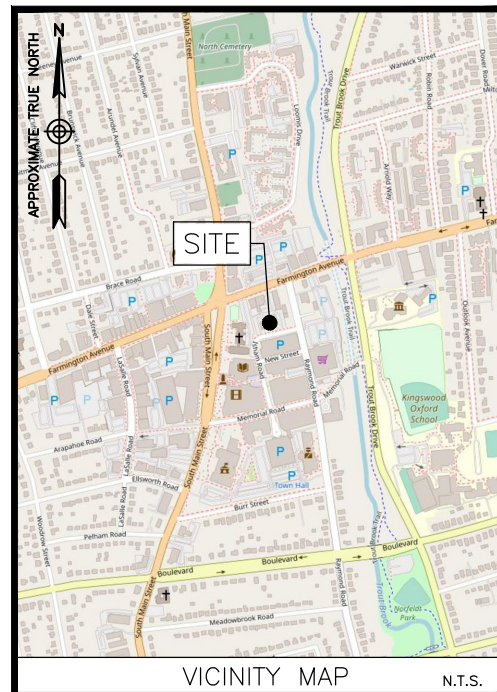
VERIZON WIRELESS  
99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

WEST HARTFORD  
CENTER CT

ANTMO DRAWINGS		
2	07/19/23	FOR SUBMITTAL
1	05/19/23	FOR SUBMITTAL
0	05/15/23	FOR SUBMITTAL



Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



**ENGINEER**  
DEWBERRY ENGINEERS INC.  
99 SUMMER ST.  
SUITE 700  
BOSTON, MA 02110  
PHONE # (617) 531-0800  
CONTACT: BENJAMIN REVETTE, PE

**CONSTRUCTION**  
VERIZON WIRELESS  
99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

**LAND OWNER**  
M+R GASSNER FAMILY II LLC  
P.O. BOX 354  
MILLDALE, CT 06467

**COORDINATES\*:**  
LATITUDE: 41° 45' 41.60" (41.761556) N  
LONGITUDE: 72° 44' 25.35" (72.740375) W  
\*PER RFDS

**GROUND ELEVATION\*:**  
93'±  
\*PER GOOGLE EARTH

PROJECT INFORMATION

PMI ACCESSED AT: [HTTPS://PMI.VZWSMART.COM](https://pmi.vzwsmart.com)

SMART TOOL VENDOR PROJECT NUMBER: 10206578

VZW LOCATION CODE (PSLC): 535840

FUZE NUMBER: 17082761

PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED?	NO
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CONTRACTOR PMI REQUIREMENTS

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

- REMOVE (3) EXISTING MT6407-77A ANTENNAS.
- REMOVE (3) EXISTING CDMA ANTENNAS.
- INSTALL (3) MT6413-77A WITH INTEGRATED RRH ANTENNA/RADIO UNITS.
- INSTALL NEW JUMPER CABLING BETWEEN OVPS AND ANTENNAS AS REQUIRED.

NOTE:

- SCOPE OF WORK BASED ON ANTENNA REC FOR W HARTFORD W CT RELO MA DATED 04/20/23. VERIFY SCOPE OF WORK WITH FINAL RFDS PRIOR TO CONSTRUCTION.

SCOPE OF WORK

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
C-1	ROOF PLAN
C-2	ELEVATION
C-3	EXISTING & PROPOSED ANTENNA PLANS
C-4	CONSTRUCTION DETAILS
C-5	FINAL EQUIPMENT CONFIGURATION
C-6	SMART TOOL SECTOR PLANS & ELEVATION DETAILS

SHEET INDEX

DRAWN BY: 07/19/2023 JG

REVIEWED BY: CDH

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50164391

SITE NUMBER: 535840

SITE ADDRESS: 14-20 ISHAM ROAD WEST HARTFORD, CT 06107

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

## GENERAL CONSTRUCTION NOTES :

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND COMPLY WITH VERIZON WIRELESS SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT "DIG SAFE" (888-344-7233) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR WILL NOTIFY ENGINEER, VERIZON WIRELESS PROJECT CONSTRUCTION MANAGER, AND LANDLORD IMMEDIATELY.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- ALL ROOF WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED ROOFING CONTRACTOR IN COORDINATION WITH ANY CONTRACTOR WARRANTING THE ROOF TO ENSURE THAT THE WARRANTY IS MAINTAINED.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH THREE AS-BUILT SETS OF DRAWINGS UPON COMPLETION OF WORK.
- ANTENNAS AND CABLES ARE TYPICALLY PROVIDED BY VERIZON WIRELESS. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED BY VERIZON WIRELESS. ALL ITEMS NOT PROVIDED BY VERIZON WIRELESS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED BY VERIZON WIRELESS.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR WILL COORDINATE WITH VERIZON WIRELESS PROJECT MANAGER TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY VERIZON WIRELESS. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- GENERAL CONTRACTOR SHALL HAVE A LICENSED HVAC CONTRACTOR START THE HVAC UNITS, SYNCHRONIZE THE THERMOSTATS, ADJUST ALL SETTINGS ON EACH UNIT ACCORDING TO VERIZON WIRELESS CONSTRUCTION MANAGER'S SPECIFICATIONS, AND THOROUGHLY TEST AND BALANCE EACH UNIT TO ENSURE PROPER OPERATION PRIOR TO TURNING THE SITE OVER TO OWNER.
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- UNLESS OTHERWISE NOTED VERIZON WIRELESS SHALL PROVIDE ALL REQUIRED RF MATERIAL FOR CONTRACTOR TO INSTALL, INCLUDING ANTENNAS, TMA'S, BIAS-T'S, COMBINERS, PDU, DC BLOCKS, SURGE ARRESTORS, GPS ANTENNA, GPS SURGE ARRESTOR, COAXIAL CABLE.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE PROVIDED BY VERIZON WIRELESS FOR INSTALLATION BY CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO CONSTRUCTION START, MORE SPECIFICALLY BEFORE; SEALING ANY FLOOR, WALL OR ROOF PENETRATION, FINAL UTILITY CONNECTIONS, POURING CONCRETE, BACKFILLING UTILITY TRENCHES AND STRUCTURAL POST OR MOUNTING CONNECTIONS, FOR ENGINEERING REVIEW AND INSPECTION.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED D FIRE CODE APPROVED MATERIALS.
- REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND LANDLORD.
- ALL DISRUPTIVE WORK AND WORK WITHIN TENANT SPACES TO BE COORDINATED WITH BUILDING REPRESENTATIVE.

## CODE SPECIFICATIONS:

- ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

2022 CONNECTICUT STATE BUILDING CODE WITH THE FOLLOWING APPLICABLE CODES:  
2021 INTERNATIONAL RESIDENTIAL CODE (IRC)  
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)  
2021 INTERNATIONAL BUILDING CODE (IBC)  
2021 INTERNATIONAL MECHANICAL CODE (IMC)  
2020 NATIONAL ELECTRICAL CODE (NEC) (NFPA 70)  
2021 INTERNATIONAL PLUMBING CODE (IPC)  
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)  
ANSI/TIA-222-H STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES (TIA)

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

- ALL STRUCTURAL WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, 13TH EDITION (AISC 13TH ED.)
- ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI 301) SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 318) AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- ALL REINFORCING STEEL WORK TO BE DONE IN ACCORDANCE WITH THE (ACI 315) MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

## GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH NEC ART. 250.
- GROUNDING CONDUCTORS SHALL BE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR INDOOR USE.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. ALWAYS MAKE 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- CONNECTIONS TO GROUNDING BAR SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- TEST COMPLETED GROUNDING SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION. GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.
- GROUNDING CONDUCTORS BETWEEN MGB AND WATERMAIN SHALL BE #2/0. BONDING JUMPERS FROM METALLIC SURFACES SHALL BE #2 MINIMUM. ALL GROUND CONDUCTORS AND BONDING JUMPERS SHALL BE SOFT DRAWN ANNEALED, TINNED, BARE STRANDED COPPER WIRE. COAXIAL CABLES SHALL BE GROUNDED AT A MINIMUM OF TWO LOCATIONS USING VERIZON PROVIDED GROUNDING KITS. EXACT LOCATIONS SHALL BE FINALIZED IN THE FIELD BY THE CONSTRUCTION MANAGER.

## STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:  
ASTM A-992, GRADE 50 ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE.  
ASTM A-36 ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.  
ASTM A-500, GRADE B HSS SECTION (SQUARE, RECTANGULAR, ROUND)  
ASTM A-325, TYPE SC OR N ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS.  
F1554, GRADE 36 ALL ANCHORS BOLTS, UNLESS NOTED OTHERWISE.  
ASTM A-53, GRADE B STEEL PIPE
- ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION. WHERE WELD LENGTH IS NOT INDICATED, USE FULL LENGTH WELD. AT THE COMPLETION OF ALL WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA.) SUPPLIED WITH A NUT AND WASHER UNDER TURNED END AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED METALS.
- ALL EXISTING BEAM AND COLUMN DIMENSIONS SHALL BE FIELD VERIFY BY CONTRACTOR PRIOR TO FABRICATION. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN SHALL BE REPORTED TO DEWBERRY ENGINEER IMMEDIATELY.
- CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
- ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A123/A123M-00 HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED. REPAIR DAMAGED GALVANIZED COATINGS ON GALVANIZED ITEMS WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS, PRIOR TO COMPLETION OF WORK. TOUCHUP ALL DAMAGED GALVANIZED STEEL WITH APPROVED COLD ZINC, "GALVANOX", "DRY GALV", "ZINC-IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
- ALL WELDED COMPONENTS TO BE SHOP WELDED PRIOR TO INSTALLATION. NO WELDING ACTIVITIES IS PERMITTED DURING INSTALLATION OF PROPOSED EQUIPMENTS AND/OR HARDWARE ON SITE.



VERIZON WIRELESS  
99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

WEST HARTFORD  
CENTER CT

ANTMO DRAWINGS

2	07/19/23	FOR SUBMITTAL
1	05/19/23	FOR SUBMITTAL
0	05/15/23	FOR SUBMITTAL



Dewberry Engineers Inc.  
99 SUMMER STREET  
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DRAWN BY: 07/19/2023 JG

REVIEWED BY: CDH

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50164391

SITE NUMBER:

535840

SITE ADDRESS

14-20 ISHAM ROAD  
WEST HARTFORD,  
CT 06107

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1



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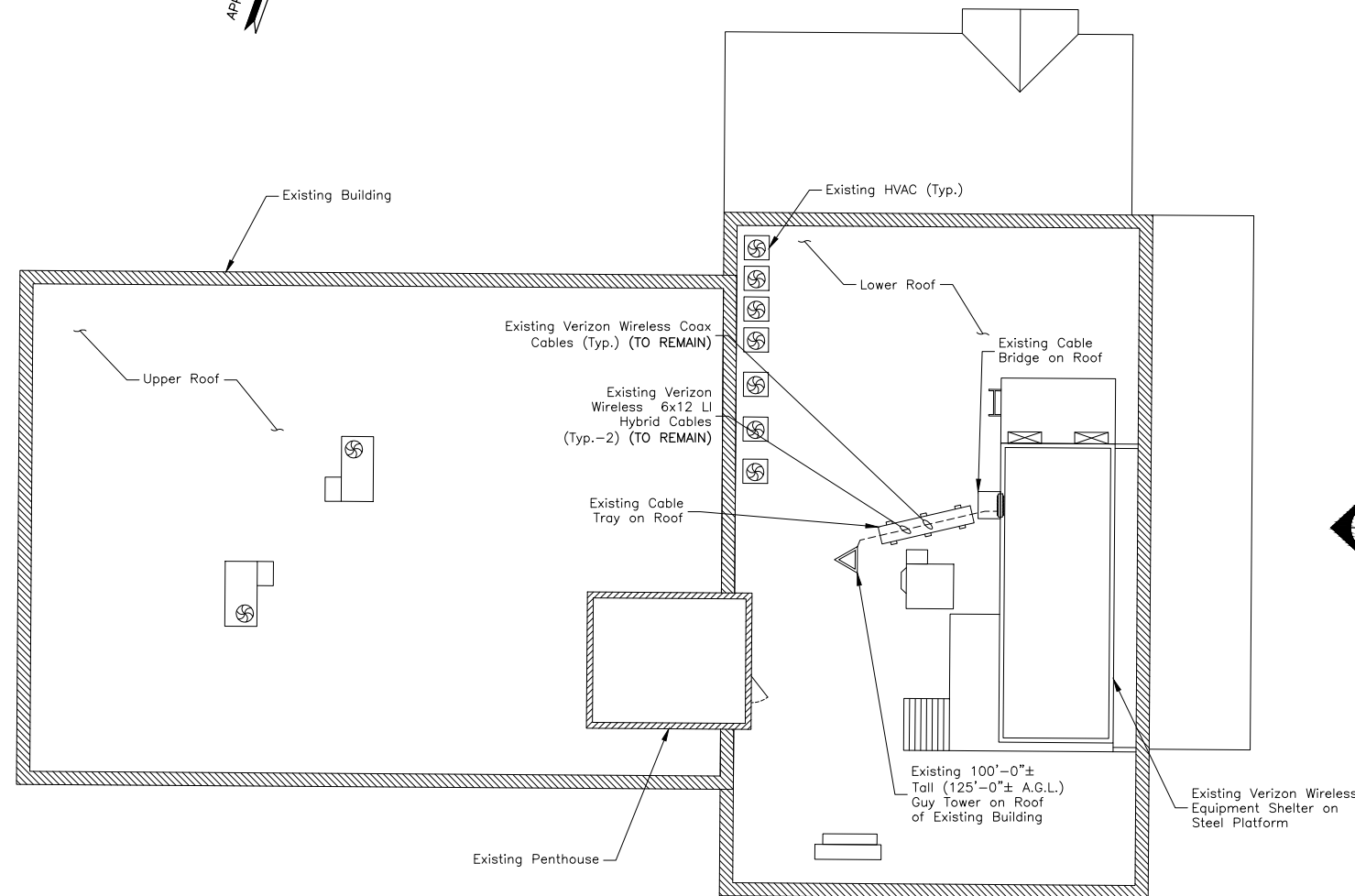
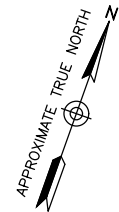
14-20 ISHAM ROAD  
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CT 06107

SHEET TITLE

ROOF PLAN

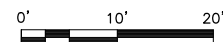
SHEET NUMBER

C-1



**ROOF PLAN**

SCALE: 1"=20' FOR 11"x17"  
1"=10' FOR 22"x34"



**NOTES:**

1. NORTH SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. EXISTING ANTENNAS SHOWN AS APPROXIMATE. ELEVATION BASED ON EXISTING INFORMATION AND VISUAL INSPECTION AND HAVE NOT BEEN VERIFIED THROUGH AN ANTENNA MAPPING.
4. MOUNT ALL PROPOSED EQUIPMENT IN ACCORDANCE WITH MOUNT ANALYSIS COMPLETED BY COLLIER ENGINEERING & DESIGN DATED 07/13/23 & TOWER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS DATED 07/18/23.



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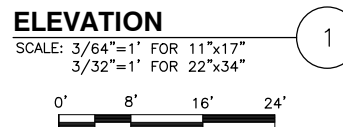
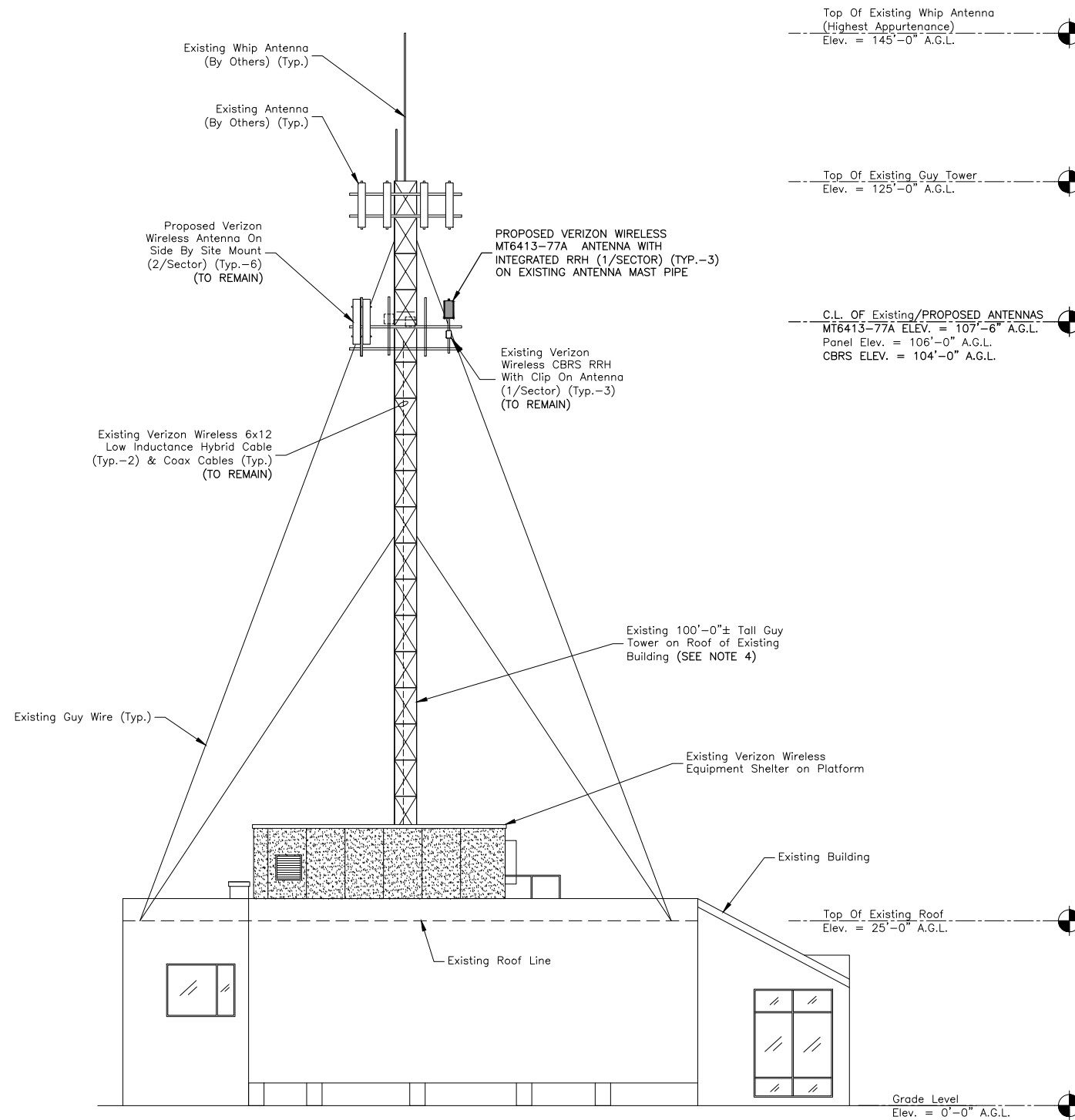
14-20 ISHAM ROAD  
WEST HARTFORD,  
CT 06107

SHEET TITLE

ELEVATION

SHEET NUMBER

C-2



- NOTES:
- ELEVATION SHOWN AS APPROXIMATE.
  - SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
  - EXISTING ANTENNAS SHOWN AS APPROXIMATE. ELEVATION BASED ON EXISTING INFORMATION AND VISUAL INSPECTION AND HAVE NOT BEEN VERIFIED THROUGH AN ANTENNA MAPPING.
  - MOUNT ALL PROPOSED EQUIPMENT IN ACCORDANCE WITH MOUNT ANALYSIS COMPLETED BY COLLIER ENGINEERING & DESIGN DATED 07/13/23 & TOWER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS DATED 07/18/23.
  - A.G.L. = ABOVE GROUND LEVEL





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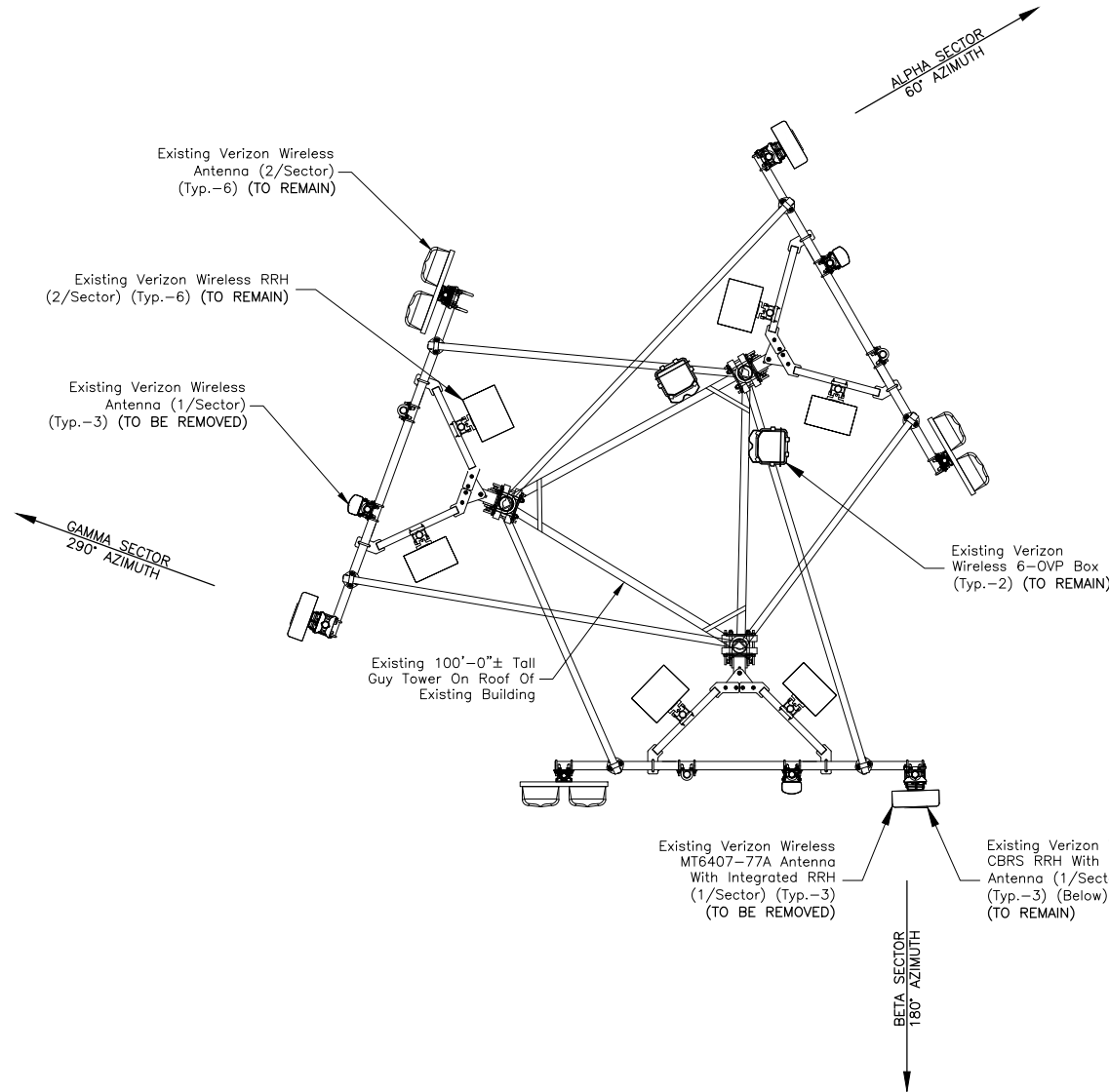
14-20 ISHAM ROAD  
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SHEET TITLE

EXISTING & PROPOSED  
ANTENNA PLANS

SHEET NUMBER

C-3

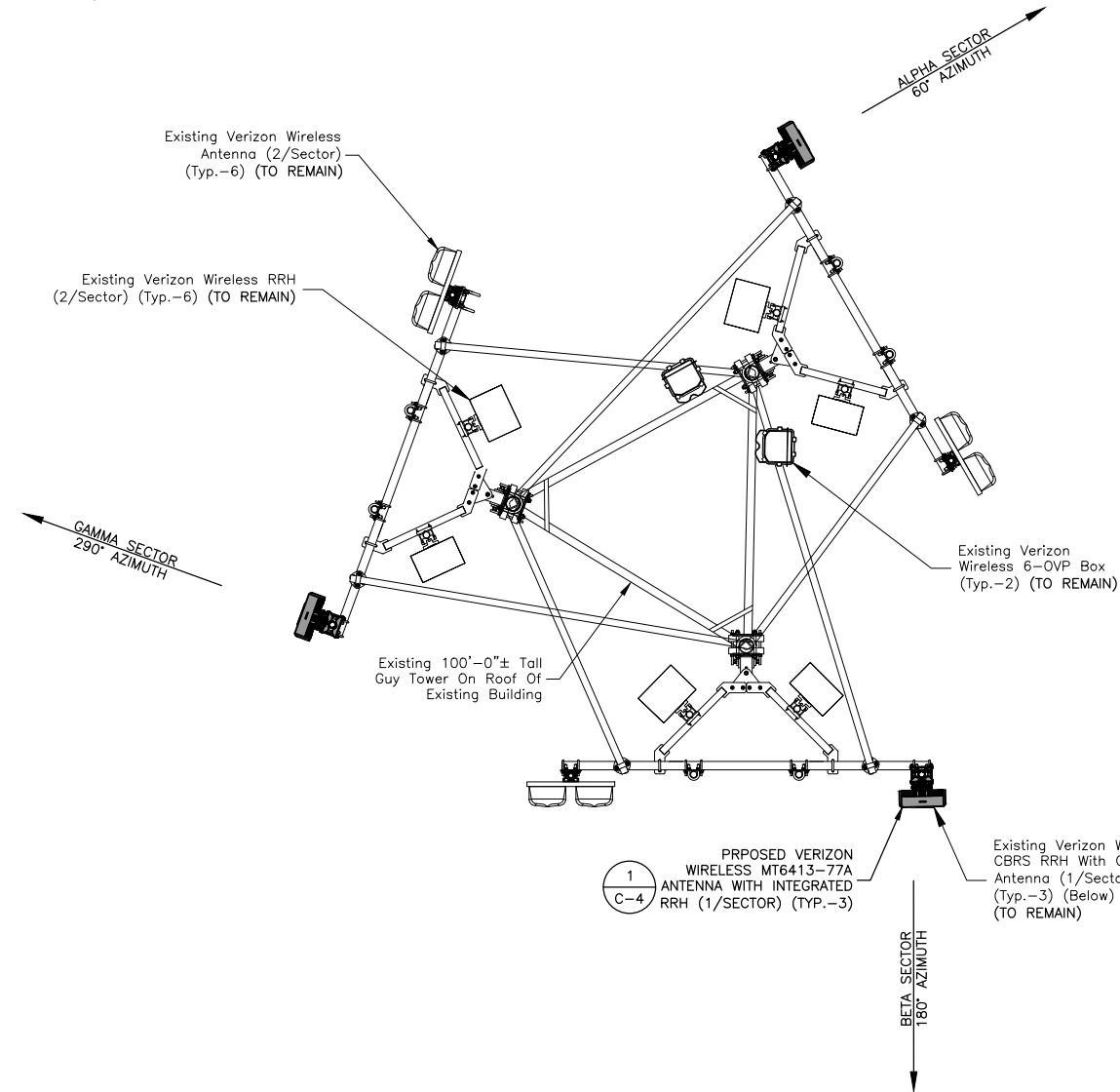


**EXISTING ANTENNA PLAN**  
SCALE: N.T.S.

1

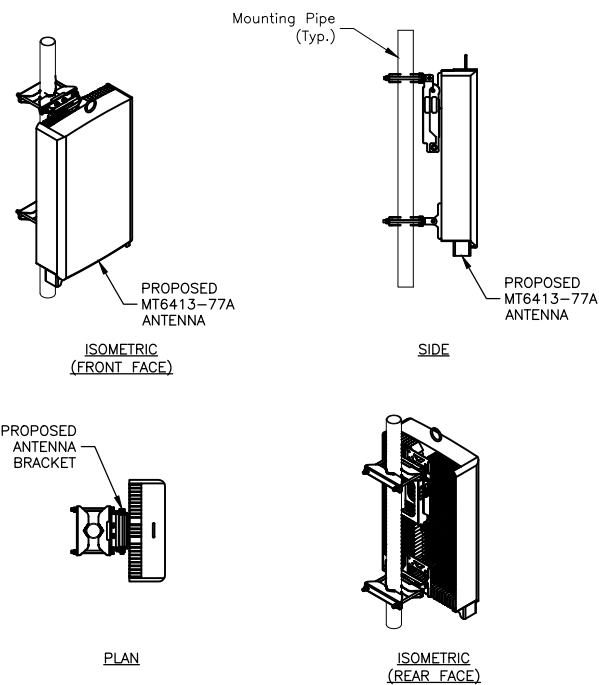
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3. EXISTING ANTENNAS SHOWN AS APPROXIMATE. ELEVATION BASED ON EXISTING INFORMATION AND VISUAL INSPECTION AND HAVE NOT BEEN VERIFIED THROUGH AN ANTENNA MAPPING.
4. MOUNT ALL PROPOSED EQUIPMENT IN ACCORDANCE WITH MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN DATED 07/13/23 & TOWER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS DATED 07/18/23.



**PROPOSED ANTENNA PLAN**  
SCALE: N.T.S.

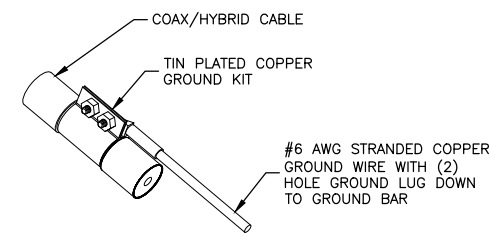
2



MODEL:	MT6413-77A
DIMENSIONS:	28.9"H X 15.7"W X 5.5"D (NOT TO EXCEED)
WEIGHT:	57.3 LBS (NOT TO EXCEED)

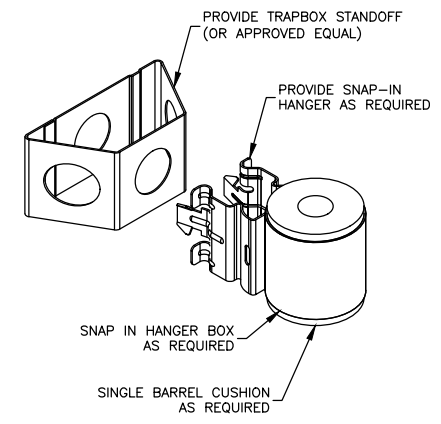
**NOTE:**  
1. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. USE APPROPRIATE MOUNTING HARDWARE FOR CONSTRUCTION TYPE.

**MT6413-77A ANTENNA DETAILS**  
SCALE: N.T.S.

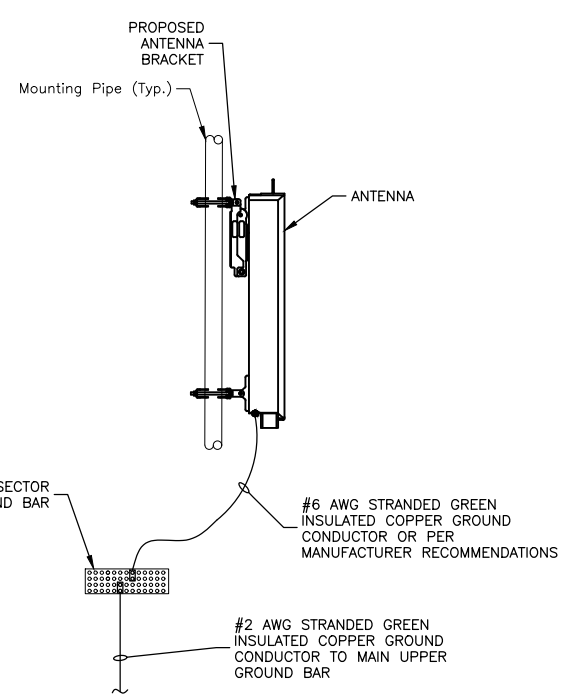


- NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  - GROUNDING KIT SHALL BE TIN PLATED COPPER WITH TWO-HOLE LUG, SIZE PER COAX DIAMETER.
  - WEATHER SEAL GROUND KIT PER CARRIER REQUIREMENTS.
  - COAX CABLE GROUND KIT LOCATION & QUANTITY SHALL BE PER CARRIER SPECIFICATIONS & STANDARDS.

**COAX/HYBRID GROUNDING DETAIL**  
SCALE: N.T.S.



**JUMPER MOUNT**  
SCALE: N.T.S.



- NOTES:**
- VERIFY EXISTING GROUNDING SYSTEM IS INSTALLED PER VERIZON WIRELESS STANDARDS.
  - BOND NEW EQUIPMENT INTO EXISTING GROUND SYSTEM IN ACCORDANCE WITH VERIZON WIRELESS STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

**TYPICAL ANTENNA GROUNDING DETAIL**  
SCALE: N.T.S.

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REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50164391
SITE NUMBER:	

535840

SITE ADDRESS

14-20 ISHAM ROAD  
WEST HARTFORD,  
CT 06107

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER



VERIZON WIRELESS  
99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

**WEST HARTFORD  
CENTER CT**

ANTMO DRAWINGS

2	07/19/23	FOR SUBMITTAL
1	05/19/23	FOR SUBMITTAL
0	05/15/23	FOR SUBMITTAL



Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



FINAL EQUIPMENT CONFIGURATION										
SECTOR	POSITION	TECHNOLOGY	ANTENNA MODEL	VENDOR	RRH (QTY./MODEL)	CENTERLINE	AZIMUTH	OVP	HYBRID CABLE TYPE	FEED LINE LENGTH*
ALPHA	A1	5G	(P) MT6413-77A	SAMSUNG	-	107'-6"±	60°	(2) (E) 6-OVP BOX TO REMAIN	(2) (E) 6X12 HYBRID CABLE TO REMAIN	160'±
	A2	LTE CBRS	(E) XXDWMM-12.5-65-8T	SAMSUNG	(1) (E) RT4401-48A	104'-0"±	60°			
	A3	LTE 700/850	(E) SBNHH-1D65B	ANDREW	(1) (E) B5/B13 RFV01U-D2A	106'-0"±	60°			
	A4	LTE 1900/AWS	(E) SBNHH-1D65B	ANDREW	(1) (E) B2/B66A RFV01U-D1A	106'-0"±	60°			
BETA	B1	5G	(P) MT6413-77A	SAMSUNG	-	107'-6"±	180°			
	B2	LTE CBRS	(E) XXDWMM-12.5-65-8T	SAMSUNG	(1) (E) RT4401-48A	104'-0"±	180°			
	B3	LTE 700/850	(E) SBNHH-1D65B	ANDREW	(1) (E) B5/B13 RFV01U-D2A	106'-0"±	180°			
	B4	LTE 1900/AWS	(E) SBNHH-1D65B	ANDREW	(1) (E) B2/B66A RFV01U-D1A	106'-0"±	180°			
GAMMA	G1	5G	(P) MT6413-77A	SAMSUNG	-	107'-6"±	290°			
	G2	LTE CBRS	(E) XXDWMM-12.5-65-8T	SAMSUNG	(1) (E) RT4401-48A	104'-0"±	290°			
	G3	LTE 700/850	(E) SBNHH-1D65B	ANDREW	(1) (E) B5/B13 RFV01U-D2A	106'-0"±	290°			
	G4	LTE 1900/AWS	(E) SBNHH-1D65B	ANDREW	(1) (E) B2/B66A RFV01U-D1A	106'-0"±	290°			

\*CONTRACTOR TO FIELD VERIFY HYBRID CABLE LENGTHS PRIOR TO CONSTRUCTION. LENGTH IS ESTIMATED FROM THE BASE EQUIPMENT OVP TO SECTOR OVP. NO HYBRID CABLES ARE PROPOSED UNDER CURRENT SCOPE OF WORK.

(E) = Existing  
(P) = PROPOSED

**FINAL EQUIPMENT CONFIGURATION**

SCALE: N.T.S.

1

DRAWN BY: 07/19/2023JG

REVIEWED BY: CDH

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50164391

SITE NUMBER:

535840

SITE ADDRESS

14-20 ISHAM ROAD  
WEST HARTFORD,  
CT 06107

SHEET TITLE

FINAL EQUIPMENT  
CONFIGURATION

SHEET NUMBER

C-5



VERIZON WIRELESS  
99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

**WEST HARTFORD  
CENTER CT**

ANTMO DRAWINGS

2	07/19/23	FOR SUBMITTAL
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REVIEWED BY: CDH

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PROJECT NUMBER: 50121487

JOB NUMBER: 50164391

SITE NUMBER:

535840

SITE ADDRESS

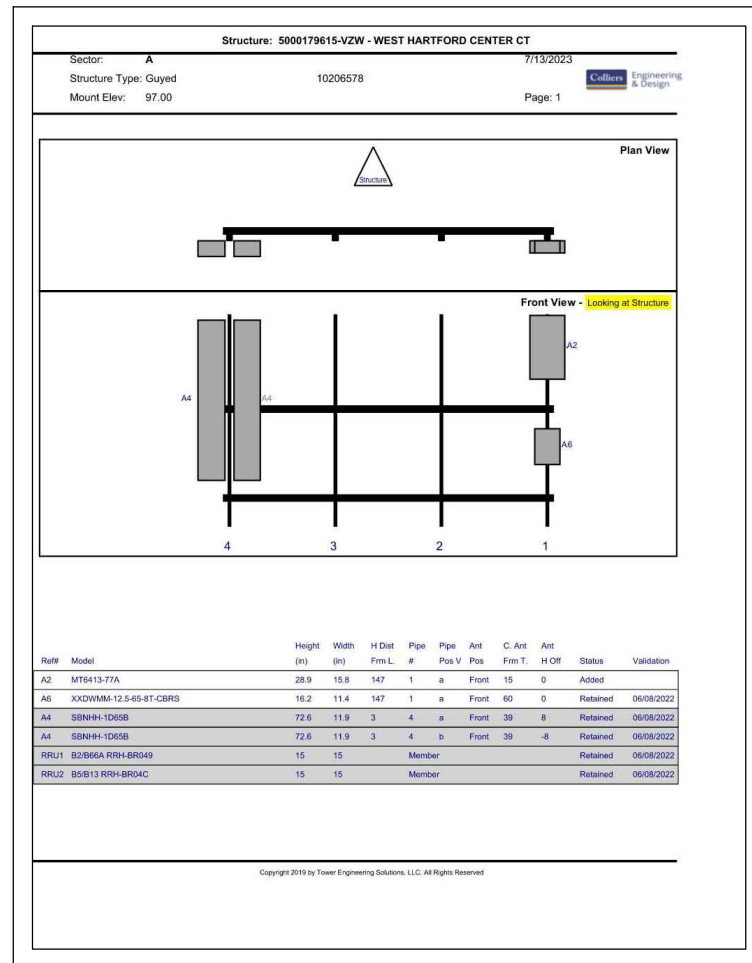
14-20 ISHAM ROAD  
WEST HARTFORD,  
CT 06107

SHEET TITLE

SMART TOOL SECTOR PLANS  
& ELEVATION DETAILS

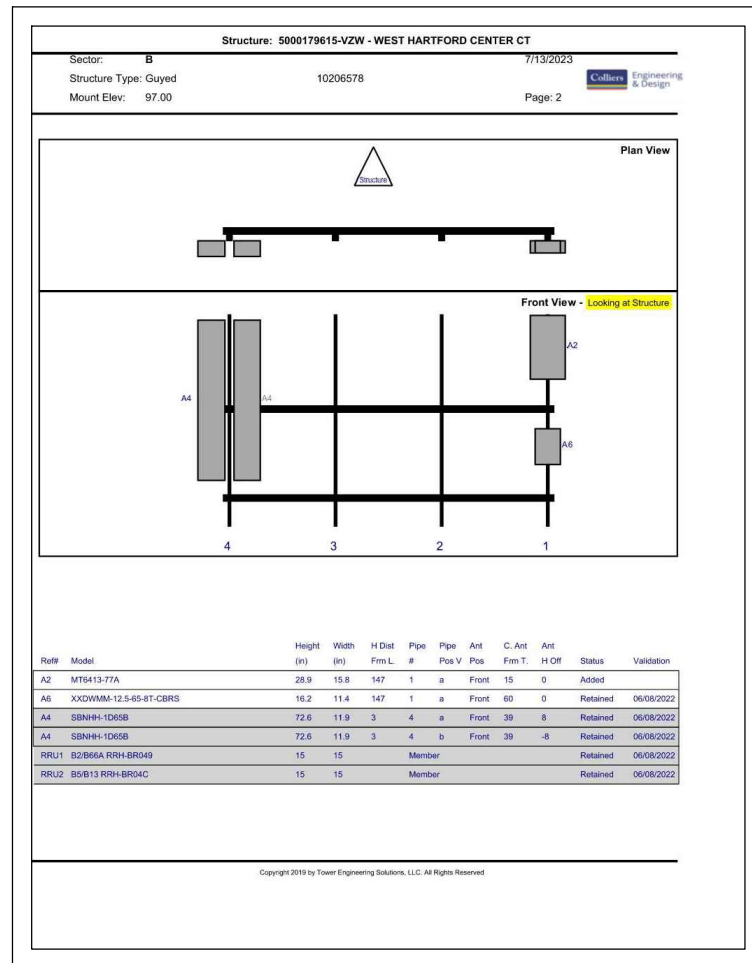
SHEET NUMBER

C-6



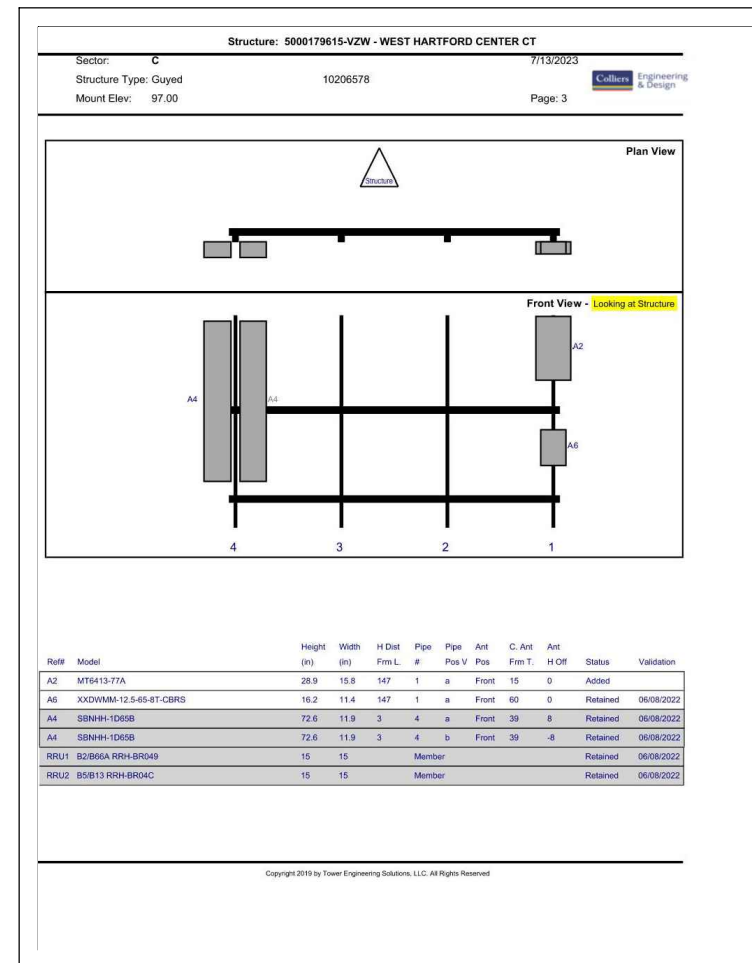
**ALPHA SECTOR**  
SCALE: N.T.S.

1



**BETA SECTOR**  
SCALE: N.T.S.

2



**GAMMA SECTOR**  
SCALE: N.T.S.

3

NOTE:

- SECTOR PLANS AND ELEVATIONS TAKEN FROM MOUNT ANALYSIS: SMART TOOL# 10206578, COLLIERS PROJECT # 23777094, FUZE # 17082761 BY MASER CONSULTING P.A. DATED 07/13/2023.