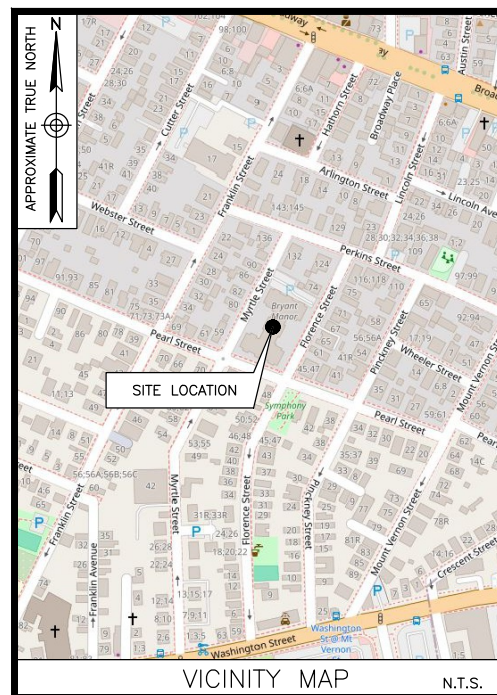




SOMERVILLE EAST MA

75 MYRTLE ST.
SOMERVILLE, MA 02145



VICINITY MAP

N.T.S.

ENGINEER

DEWBERRY ENGINEERS INC.
99 SUMMER ST.
SUITE 700
BOSTON, MA 02110

PHONE # (617) 531-0813
FAX # (617) 695-3310

CONTACT: BENJAMIN B. REVETTE

CONSTRUCTION

VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

CONTACT: ERIC WAINWRIGHT

TEAM

SITE NAME:
SOMERVILLE EAST MA

PROPERTY OWNER:
SOMERVILLE HOUSING AUTH
30 MEMORIAL RD
SOMERVILLE, MA 02145

APPLICANT:
VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

PARCEL ID:
91 F 4

ELECTRIC UTILITY:
EVERSOURCE
(800) 340-9822

TELEPHONE UTILITY:
VERIZON
(800) 827-4966

COORDINATES*:
LATITUDE: 42° 23' 04.51" (42.384586°) N (NAD83)
LONGITUDE: 71° 04' 58.04" (71.082789°) W (NAD83)

GROUND ELEVATION*:
43'-1" (NAV88)

*PER FAA-2C

PROJECT SUMMARY

SITE ADDRESS:
75 MYRTLE ST.
SOMERVILLE, MA 02145

ZONING DISTRICT:
URBAN RESIDENTIAL (UR)

PROJECT DIRECTORY

THE SITE WILL CONSIST OF INSTALLING (12) ANTENNAS WITHIN RF FRIENDLY ENCLOSURES & ASSOCIATED EQUIPMENT MOUNTED TO UNISTRUT FRAMES TO BALLAST MOUNTS ON THE ROOF OF THE EXISTING BUILDING. EQUIPMENT CABINETS & ASSOCIATED ANTENNA EQUIPMENT WILL BE INSTALLED ON EXISTING/PROPOSED STEEL FRAME.

PROJECT DESCRIPTION

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.

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES-I
GN-2	GENERAL NOTES-II
C-1	PROPOSED ROOF PLAN
C-1A	SETBACK PLAN
C-2	PROPOSED EQUIPMENT LAYOUT
C-3	SOUTH ELEVATION
C-3A	DETAILED ELEVATIONS
C-4	CONSTRUCTION DETAILS-I
C-5	CONSTRUCTION DETAILS-II
C-6	FINAL EQUIPMENT CONFIGURATION TABLE & DETAILS
RF-1	EME BARRIER PLAN
S-1	ENCLOSURE & BALLAST DETAILS
S-2	PROPOSED STEEL FRAME PLANS
S-3	EQUIPMENT STEEL FRAME DETAILS
S-4	STRUCTURAL DETAILS
E-1	ELECTRICAL ONE-LINE DIAGRAM
E-2	ELECTRICAL SCHEDULES
E-3	GROUNDING DIAGRAMS
E-4	GROUNDING DETAILS
SHEET INDEX	



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PHONE: 617.695.3400
FAX: 617.695.3310



DRAWN BY: 04/14/2026 JG

REVIEWED BY: OAS

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50183479

SITE LOCATION CODE (PSLC)

783472

SITE ADDRESS

75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GN-1

POST-INSTALLED HILTI ANCHORS NOTES:

1.

EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THEIR RESPECTIVE ICC-ES REPORT AND MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS:
- | APPLICATION | ANCHORING SYSTEM | ICC-ES REPORT |
|---|---|--------------------|
| ANCHORAGE TO CONCRETE | HILTI HY 200 ADHESIVE | ESR-3814 |
| | HILTI RE 500 V3 ADHESIVE | ESR-4266 |
| | HILTI KWIK BOLT TZ2 | ESR-3027 |
| | HILTI KWIK HUS EZ | ESR-1545 |
| | HILTI HSL-3 | ESR-1546 |
| | HILTI HDA | ESR-3814 |
| REBAR DOWELING | HILTI RE 500 V3 ADHESIVE W/ SAFE SET INSTALLATION | ESR-3187 |
| | HILTI HY 200 V3 ADHESIVE W/ SAFE SET INSTALLATION | ESR-4143 |
| ANCHORAGE TO SOLID GROUTED MASONRY | HILTI HY 270 ADHESIVE | ESR-4561 |
| | HILTI KWIK BOLT TZ2 | ESR-4561 |
| ANCHORAGE TO HOLLOW/MULTI-WYTHE MASONRY | HILTI HY 270 ADHESIVE WITH SCREEN TUBE | ESR-4143, ESR-4144 |
2.

ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT INCLUDING AN ICC-ES REPORT SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE, SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, ETC.
3.

ADHESIVE ANCHORS INSTALLED IN A HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION INTO CONCRETE AND SUPPORTING A SUSTAINED TENSION LOAD SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER. INSTALLER SHALL BE CERTIFIED THROUGH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUAL.
4.

CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE ANCHOR INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. CONTRACTOR SHALL SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL INSTALLING ANCHORS HAVE RECEIVED THE REQUIRED TRAINING PRIOR TO THE COMMENCEMENT OF WORK.
5.

ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR POST INSTALLED ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4.3/4.4 OF THE ICC-ES REPORT FOR THE INDIVIDUAL ANCHOR. SPECIAL INSPECTOR SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION EFFORTS.
7.

POST INSTALLED ADHESIVE ANCHORS ARE NOT PERMITTED TO BE INSTALLED IN MORTAR JOINTS. ALL ANCHORS TO BE INSTALLED WITHIN THE FACE OF MASONRY UNIT.

FIBERGLASS NOTES:

1.

FRP (FIBERGLASS REINFORCED POLYMER) STRUCTURAL SHAPES SHALL BE MANUFACTURED USING THE PULTRUSION PROCESS.
2.

IF PRE-FABRICATED MEMBERS DO NOT ASSEMBLE ACCORDING TO PLAN, CONTACT THE FIBERGLASS MANUFACTURER BEFORE CUTTING OR ALTERING FABRICATED MEMBERS.
3.

FRP MEMBERS SHALL BE FABRICATED AND ASSEMBLED AS INDICATED ON THE DRAWINGS.
4.

THE CONTRACTOR SHALL PROTECT THE FRP STRUCTURAL MEMBERS FROM ABUSE TO PREVENT BREAKAGE, NICKS, GOUGES, ETC. DURING FABRICATION, HANDLING, AND INSTALLATION.
5.

FRP BOLTS SHOULD BE TIGHTENED 1/2 TURN PAST SNUG AND LOCKED WITH EPOXY.
6.

FIBERGLASS TO MEET ALL VERIZON WIRELESS STANDARDS FOR RF PROPAGATION. PROVIDE TEST REPORTS TO VERIZON WIRELESS FOR REVIEW & APPROVAL.
7.

STRUCTURAL FRP SHALL HAVE THE MINIMUM MECHANICAL PROPERTIES:
E=2800KSI
TENSILE STRENGTH(LW): 33KSI
COMPRESSIVE STRENGTH(LW): 33 KSI
FLEXURAL STRENGTH(LW): 33KSI
DENSITY: 104PCF
8.

FIBERGLASS PANEL DESIGN & CONNECTION DESIGN TO BE BY OTHERS.
9.

PROVIDE FRP SHOP DRAWINGS TO DEWBERRY ENGINEERS INC. FOR REVIEW & APPROVAL PRIOR TO FRP FABRICATION.



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SOMERVILLE EAST
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DRAWN BY: 04/14/2026 JG

REVIEWED BY: OAS

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50183479

SITE LOCATION CODE (PSLC)

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SITE ADDRESS

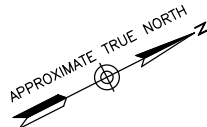
75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

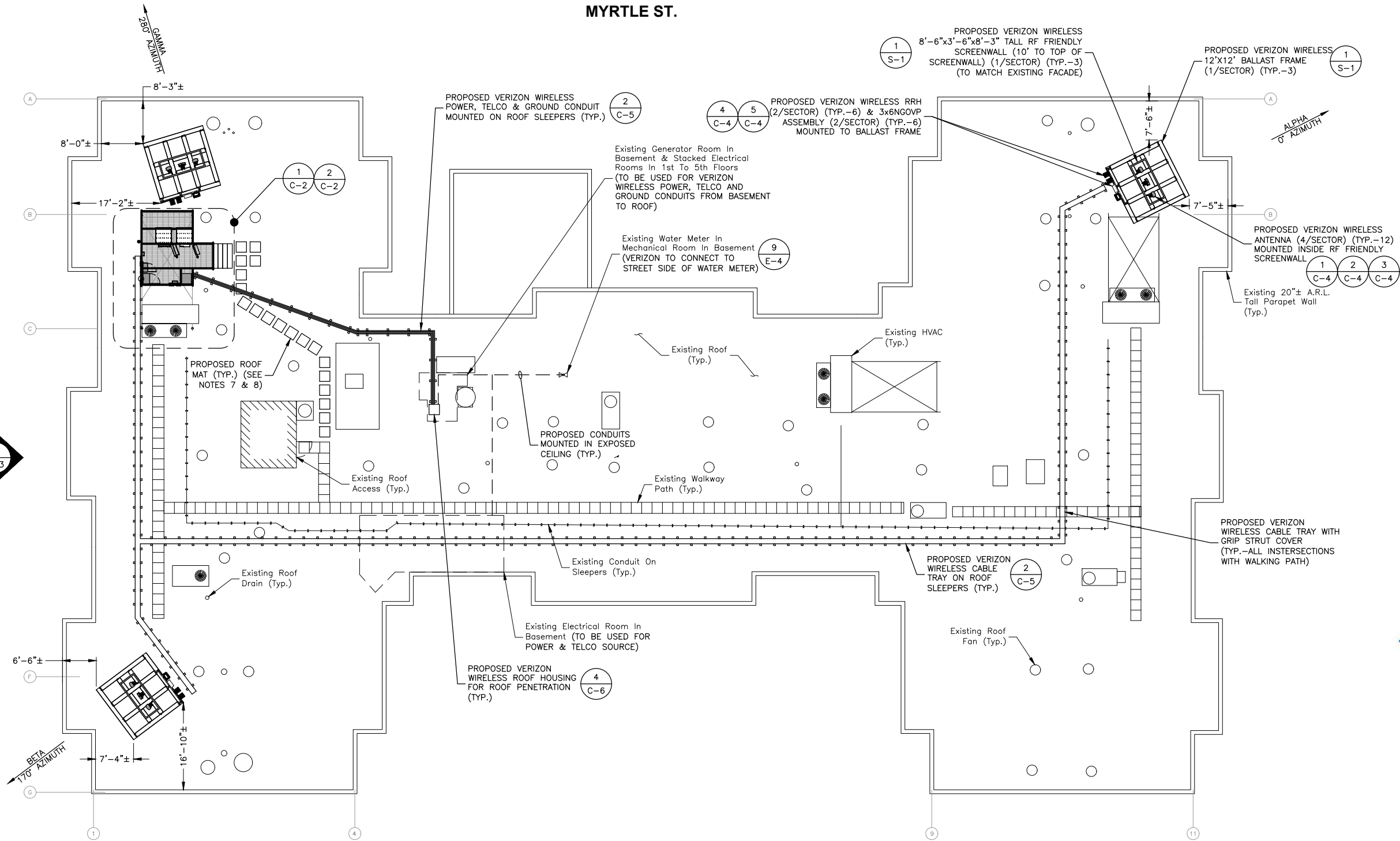
GENERAL NOTES-II

SHEET NUMBER

GN-2



MYRTLE ST.



PROPOSED ROOF PLAN

SCALE: 3/64"=1' FOR 11"x17"
3/32"=1' FOR 22"x34"



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VERIZON WIRELESS
51 ALDER STREET
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SOMERVILLE EAST
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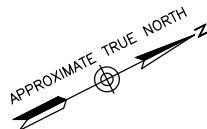
75 MYRTLE ST.
SOMERVILLE, MA 02145

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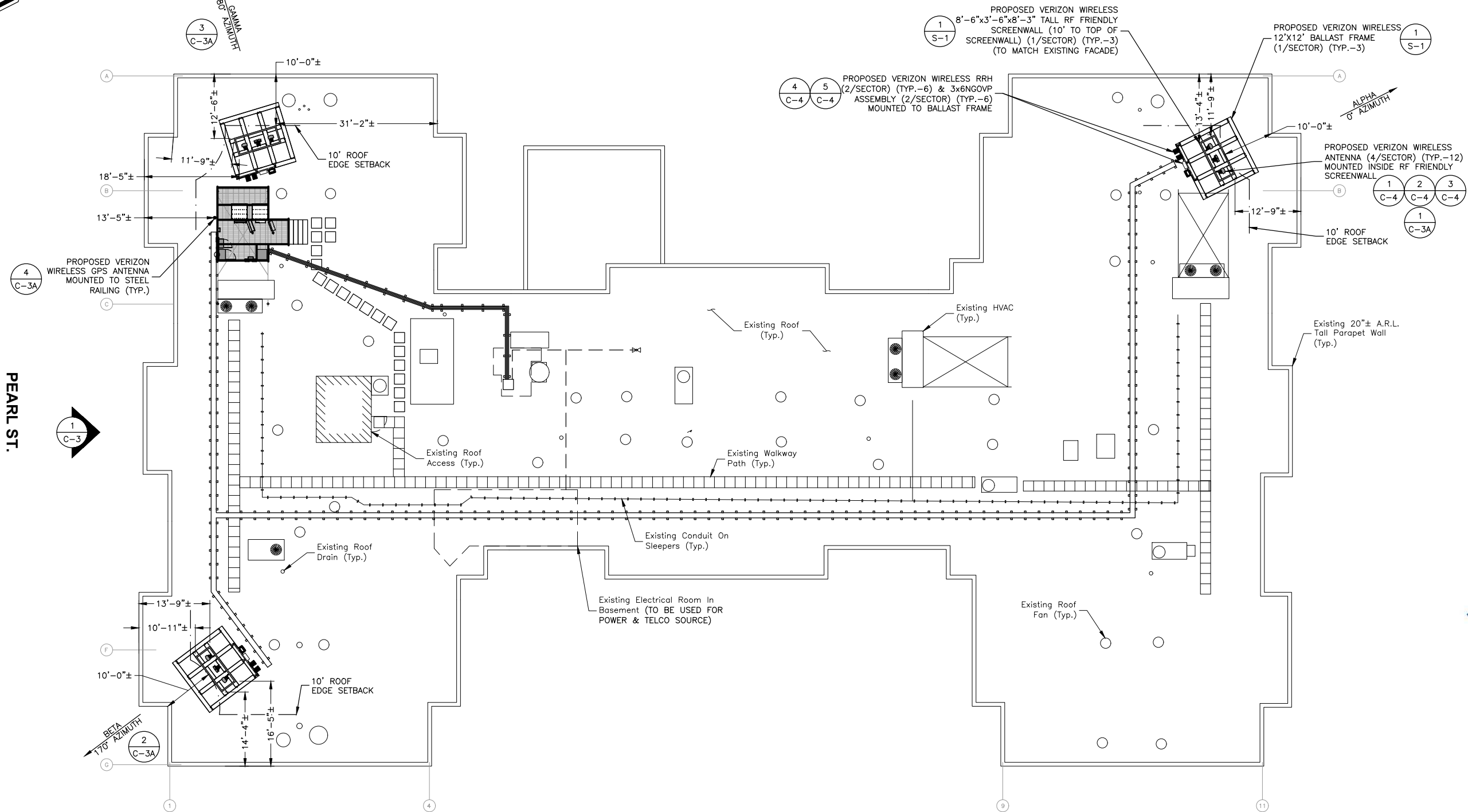
PROPOSED
ROOF PLAN

SHEET NUMBER

C-1



MYRTLE ST.



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SETBACK PLAN

SCALE: 3/64"=1' FOR 11"x17"
3/32"=1' FOR 22"x34"



VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

SOMERVILLE EAST
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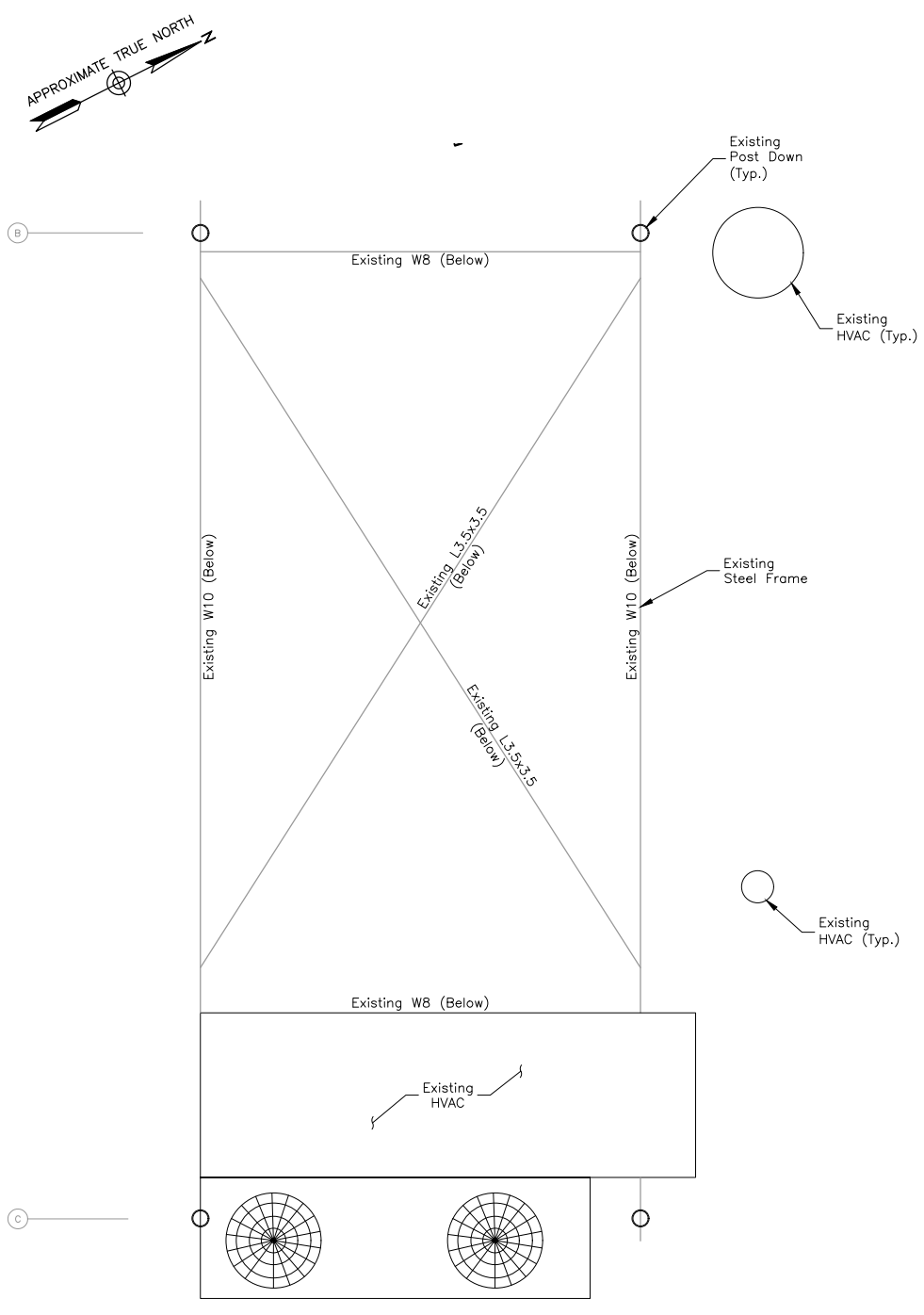
75 MYRTLE ST.
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SETBACK PLAN

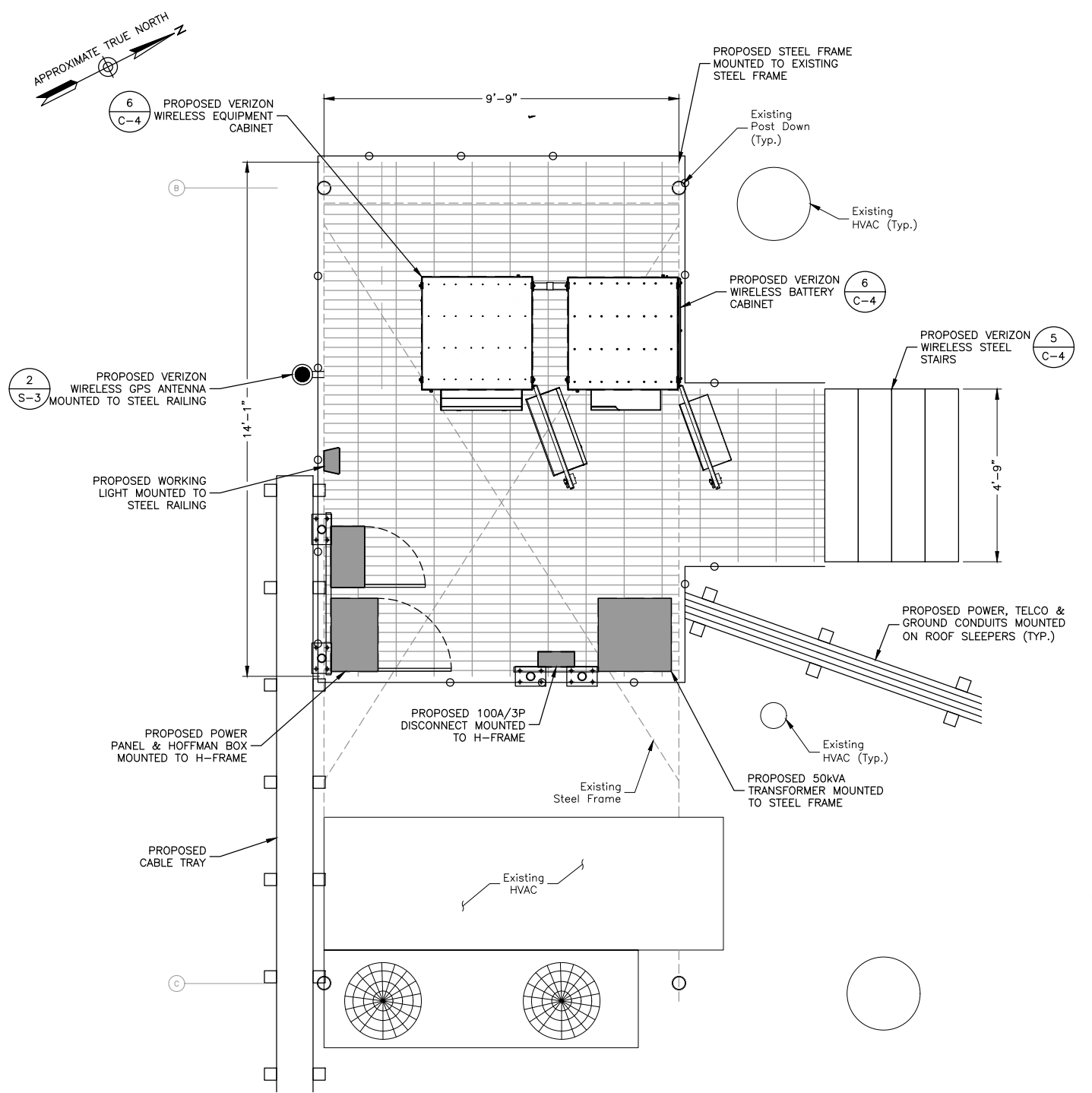
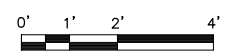
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C-1A



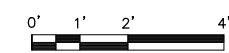
EXISTING STEEL FRAME LAYOUT

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



PROPOSED EQUIPMENT LAYOUT

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



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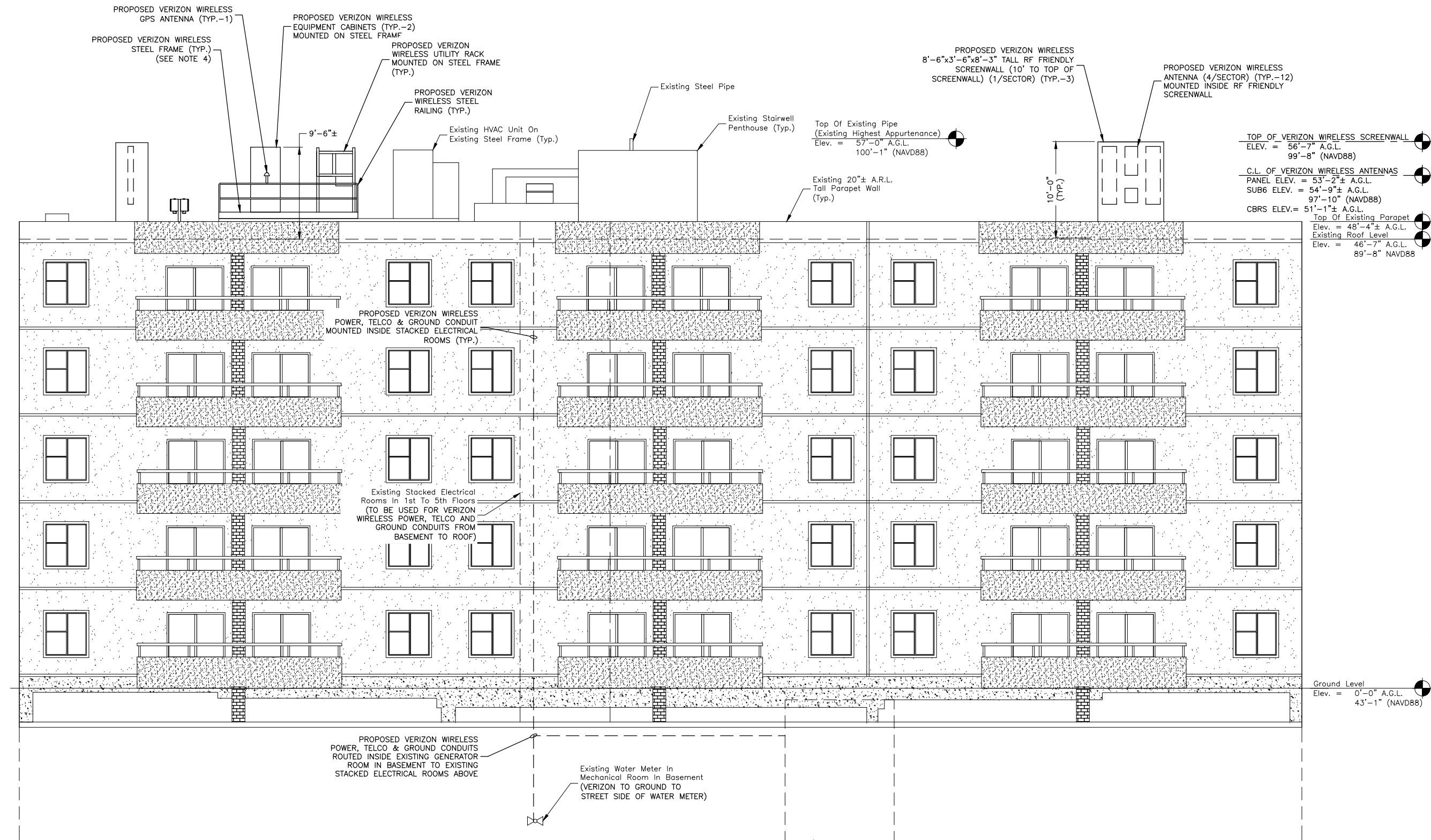
75 MYRTLE ST.
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SHEET TITLE

PROPOSED EQUIPMENT
LAYOUT

SHEET NUMBER

C-2



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SOUTH ELEVATION

SCALE: 3/32"=1' FOR 11"x17"
3/16"=1' FOR 22"x34"



1



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SOMERVILLE EAST
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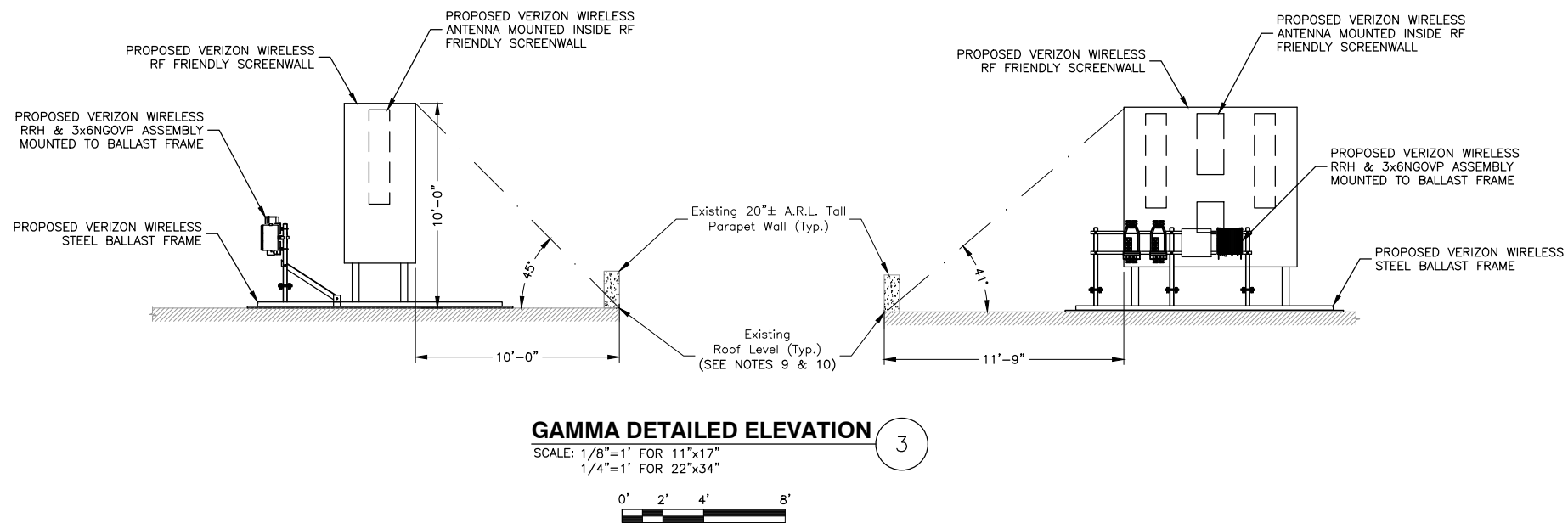
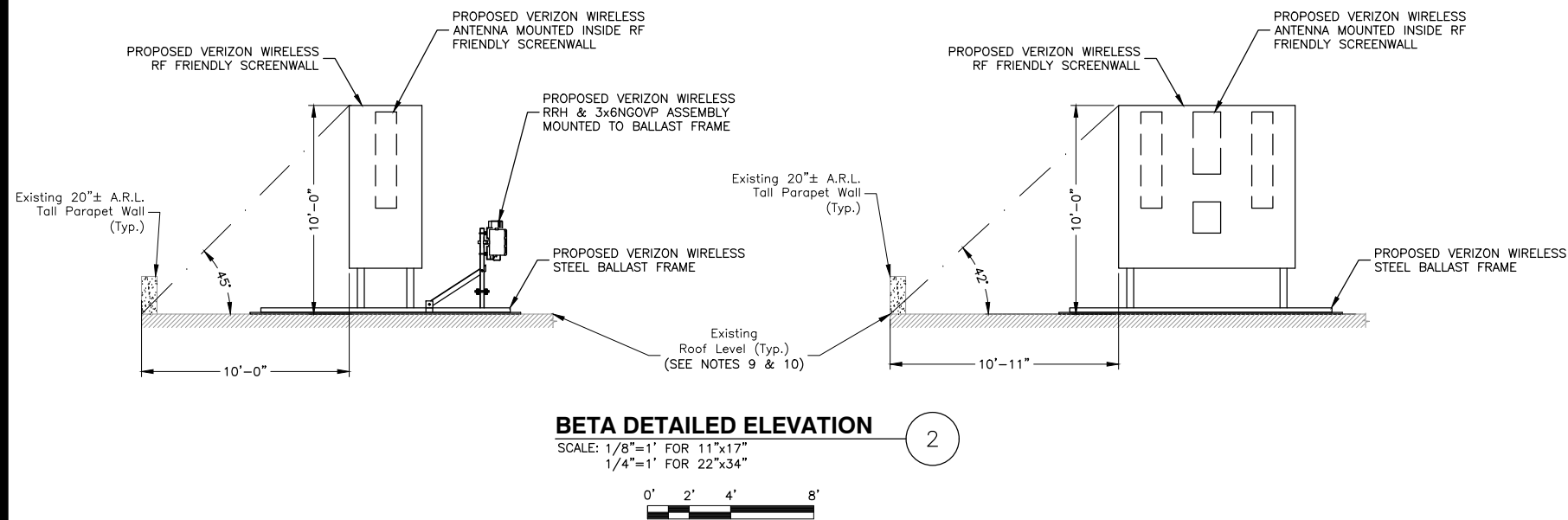
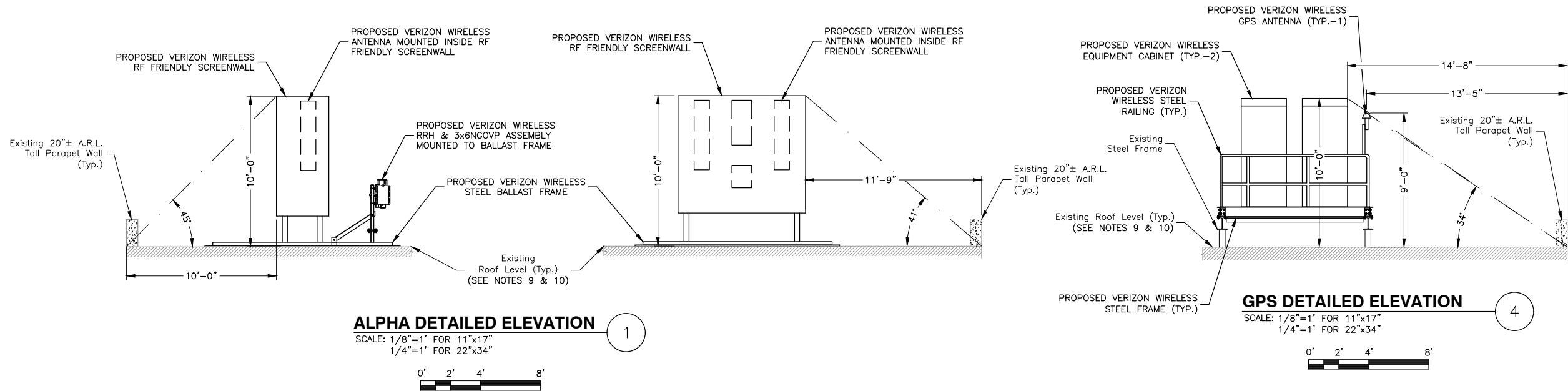
75 MYRTLE ST.
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SHEET TITLE

SOUTH ELEVATION

SHEET NUMBER

C-3



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verizon

VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

**SOMERVILLE EAST
MA**

CONSTRUCTION DRAWINGS

5	04/13/26	FOR SUBMITTAL
4	03/25/26	FOR SUBMITTAL
3	01/23/26	FOR SUBMITTAL
2	11/06/25	FOR SUBMITTAL
1	08/07/25	FOR SUBMITTAL
0	07/16/25	FOR SUBMITTAL
A	06/03/25	FOR COMMENT

Dewberry®

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



DRAWN BY: 04/14/2026 JG

REVIEWED BY: OAS

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50183479

SITE LOCATION CODE (PSLC)

783472

SITE ADDRESS

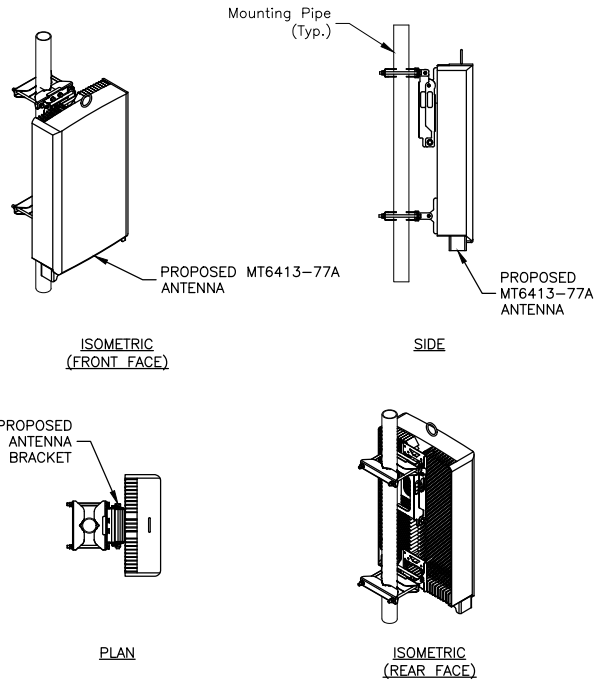
75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

DETAILED ELEVATIONS

SHEET NUMBER

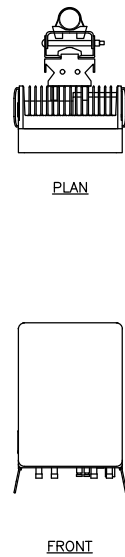
C-3A



MODEL: MT6413-77A
DIMENSIONS: 28.90"H X 15.75"W X 5.51"D
WEIGHT: 57.3 LBS

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

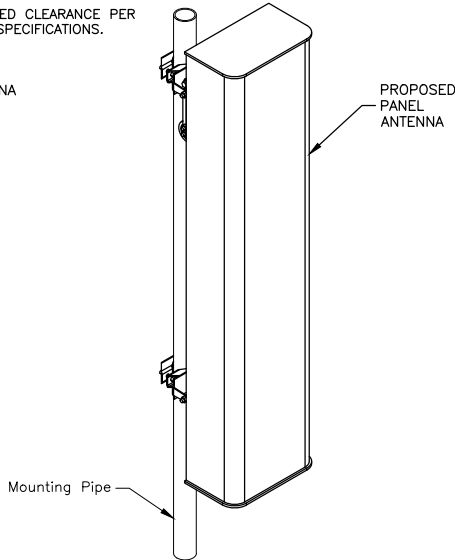
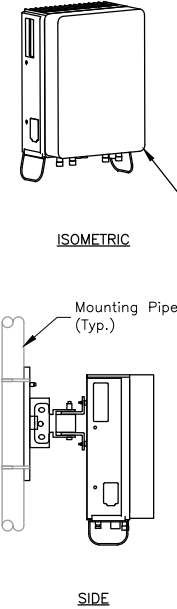
1



MODEL: R0440CC - CLIP ON ANTENNA FOR RT4423
DIMENSIONS: 14.25"H X 8.66"W X 5.02D
WEIGHT: 15.4 LBS

CBRS RRH WITH CLIP ANTENNA DETAIL
SCALE: N.T.S.

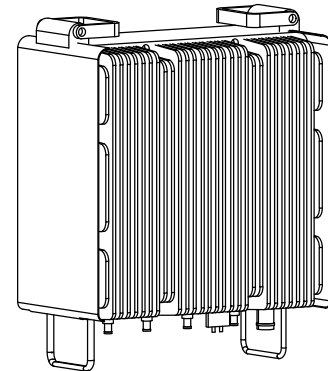
- ANTENNA NOTES:
1. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. USE APPROPRIATE MOUNTING HARDWARE FOR CONSTRUCTION TYPE.
 2. ALL FEEDERS ARE TO BE NEATLY BUNDLED. PROVIDE MOUNTING HARDWARE AS REQUIRED.
 3. ALL STEEL TO BE GALVANIZED.
 4. CONTRACTOR TO GROUND PROPOSED PIPE MOUNTS WITH GROUNDING LEADS. CONNECT LEADS TO THE SECTOR GROUNDING BAR.
 5. MAINTAIN REQUIRED CLEARANCE PER MANUFACTURER SPECIFICATIONS.



MANUFACTURER: COMMSCOPE
PART NUMBER: NHH-65A-R2B
DIMENSIONS: 55.6"H X 11.8"W X 7.0"D
WEIGHT: 35.1 LBS (W/OUT MOUNTING KIT)

PIPE PANEL ANTENNA DETAIL
SCALE: N.T.S.

3



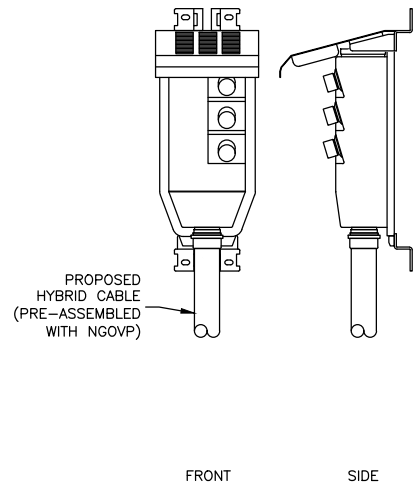
PROPOSED LTE AWS/PCS
MANUFACTURER: SAMSUNG
MODEL: AWS/PCS RF4801d-25A
DIMENSIONS: 21.8"H X 17.3"W X 7.2"D
WEIGHT: 87.9 LBS

PROPOSED LTE 700/850
MANUFACTURER: SAMSUNG
MODEL: 700/850 RF4461d-13A
DIMENSIONS: 14.9"H X 14.9"W X 10.2"D
WEIGHT: 79.2 LBS

- NOTES:
1. CONTRACTOR TO VERIFY WITH CONSTRUCTION MANAGER FOR FINAL MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.
 2. MAINTAIN REQUIRED CLEARANCE PER MANUFACTURER SPECIFICATIONS.

REMOTE UNIT DETAIL
SCALE: N.T.S.

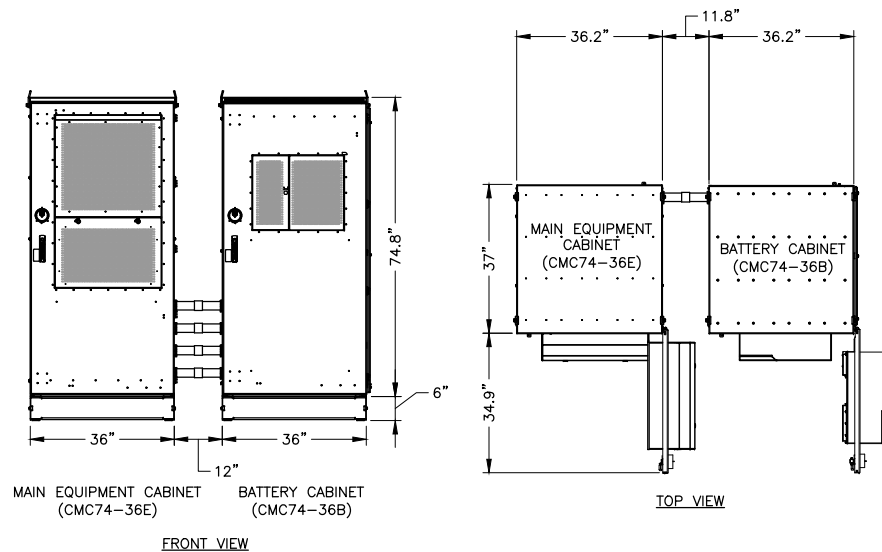
4



PROPOSED 3x6 NGOVP
MANUFACTURER: HUBER + SUHNER /RAYCAP
MODEL: MLRH36 / RTH-0306-PFC
DIMENSIONS: 12.43"H X 9.65"W X 5.43"D
WEIGHT: 15.87 LBS

OVP UNIT DETAIL
SCALE: N.T.S.

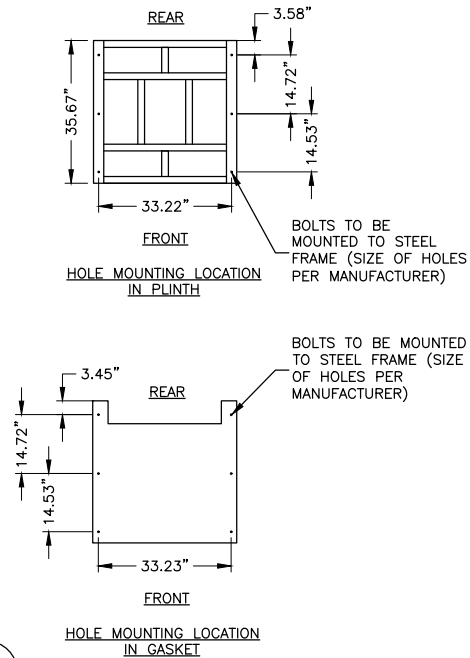
5



- NOTE:
1. CONTRACTOR TO VERIFY WITH C.M. FOR FINAL MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.

COMMSCOPE EQUIPMENT CABINETS
SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"

6



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MEDWAY, MA 02053

SOMERVILLE EAST
MA

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JOB NUMBER: 50183479
SITE LOCATION CODE (PSLC)

783472

SITE ADDRESS

75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

CONTRUCTION DETAILS - I

SHEET NUMBER

C-4

SOMERVILLE EAST
MA

CONSTRUCTION DRAWINGS

5	04/13/26	FOR SUBMITTAL
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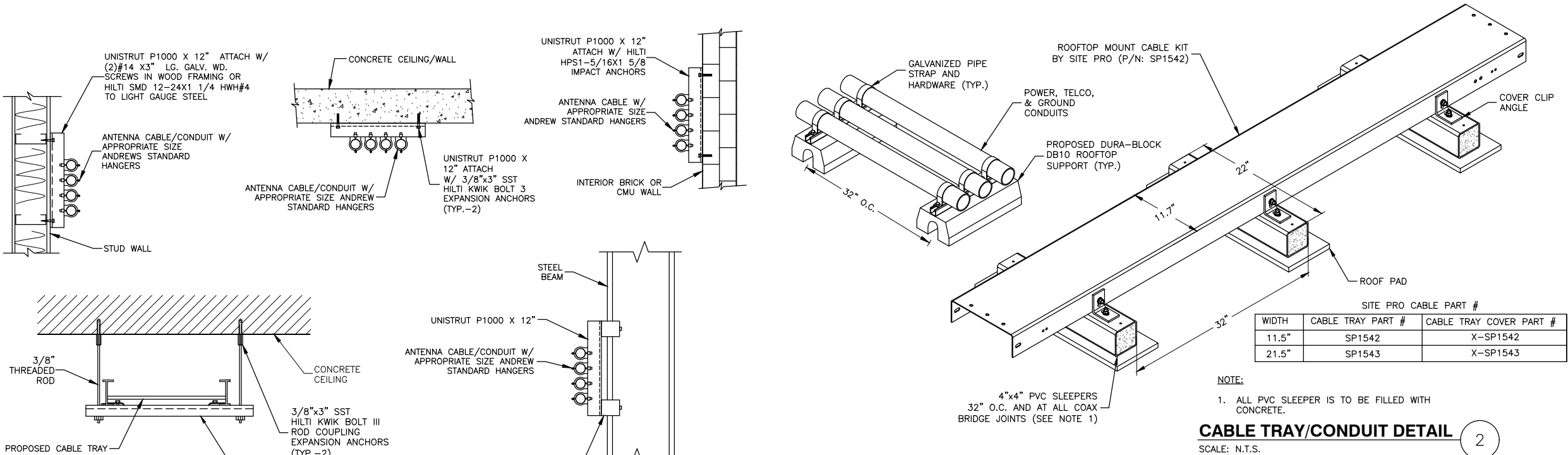
75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

CONTRUCTION DETAILS - II

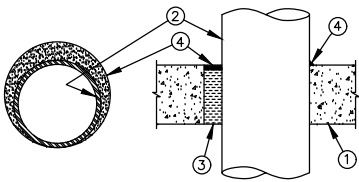
SHEET NUMBER

C-5



CABLE TRAY/CONDUIT DETAIL

SCALE: N.T.S.



SECTION A-A

F RATING - 2 HR
T RATING - 0 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400°F - 4 CFM/SQ FT
W RATING - CLASS I (SEE ITEM 4)

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS *. MAX DIAM OF OPENING IS 12 IN.

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE 0 IN. (POINT CONTACT) TO MAX 1-1/4 IN. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

- STEEL PIPE - NOM 10 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- IRON PIPE - NOM 10 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- CONDUIT - NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.
- COPPER TUBING - NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- COPPER PIPE - NOM 4 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. PACKING MATERIAL - MIN 3 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FOR NOM 4 IN. DIAM (AND SMALLER) PIPES, CONDUITS OR TUBINGS AND A MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FOR PIPE GREATER THAN NOM 4 IN. DIAM, FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

4. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. AT THE POINT OF CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CP601S OR CP604 SEALANT IS USED.

HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC - CP601S, CP604, CP606 OR FS-ONE SEALANT

*BEARING THE UL CLASSIFICATION MARK.

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5. SEE CONCRETE CORING NOTES ON SHEET G-1.

FIRE STOP DETAIL

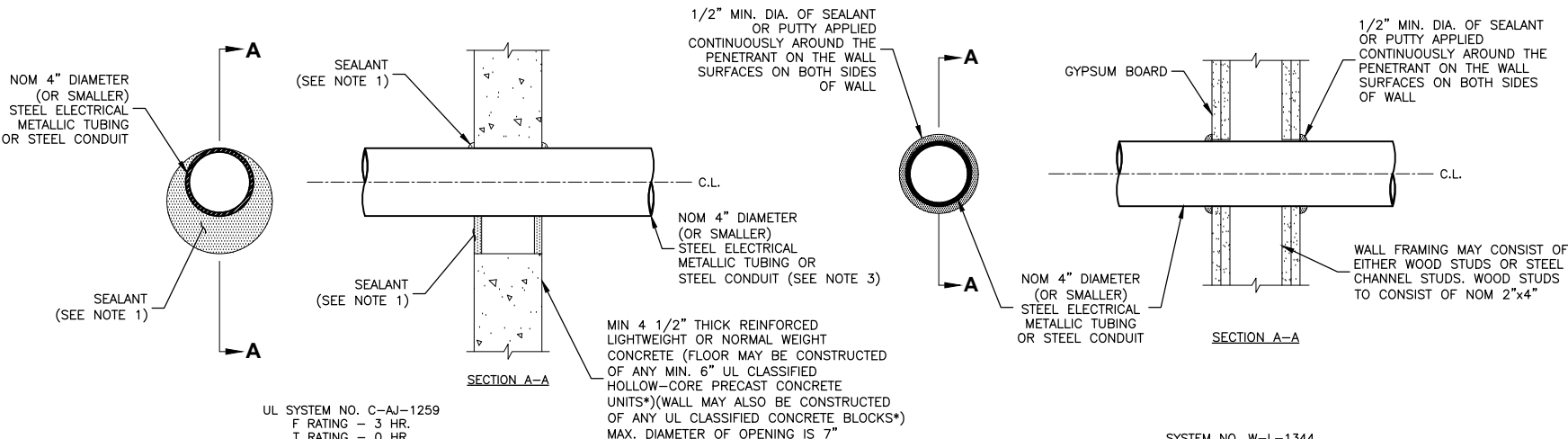
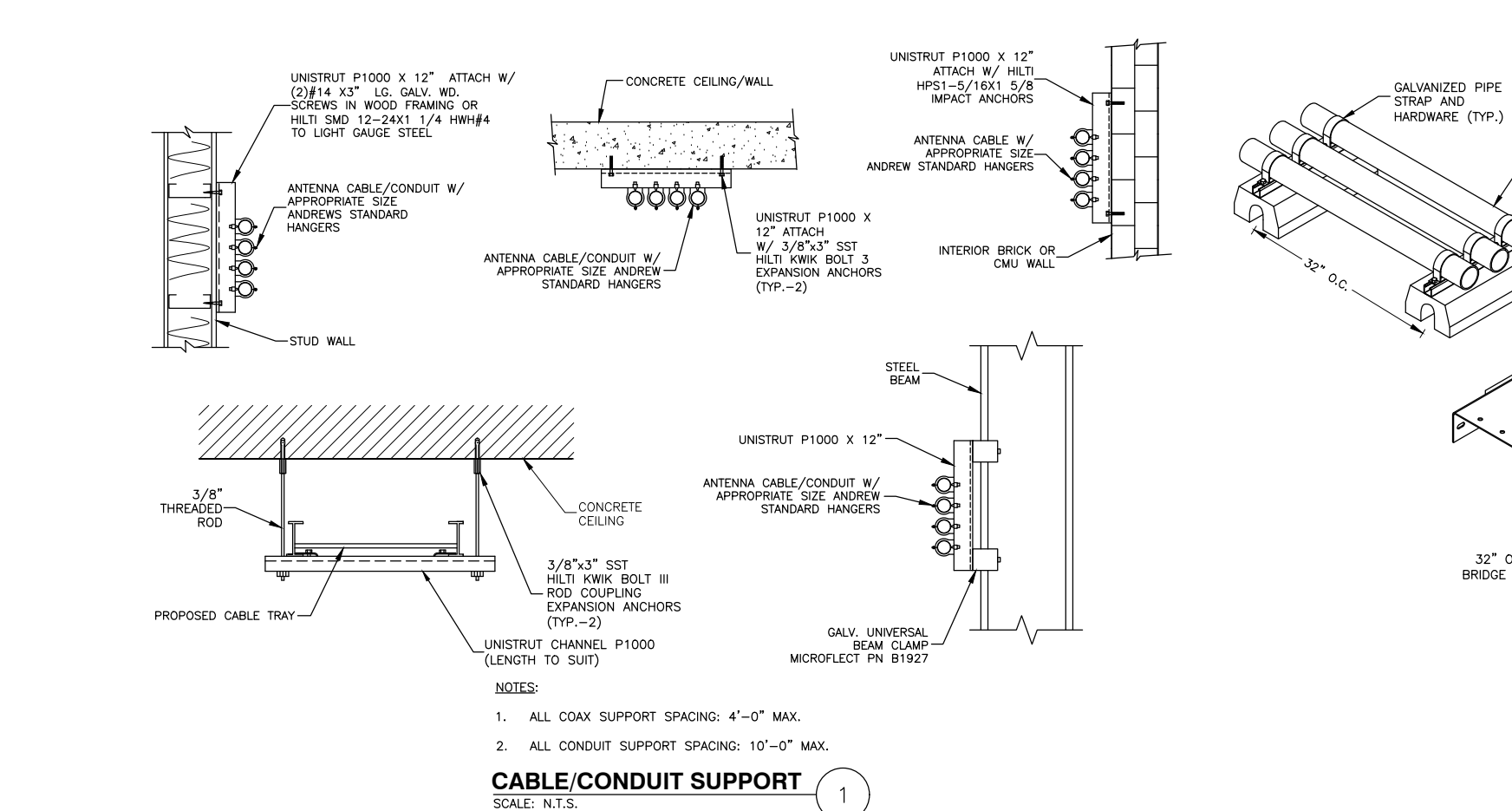
SCALE: N.T.S.

5

SECTION - THROUGH
PENETRATION FIRESTOP SYSTEM

SCALE: N.T.S.

4



SECTION A-A

SYSTEM NO. W-L-1344
F RATINGS - 1 AND 2 HR
T RATING - 1/4 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

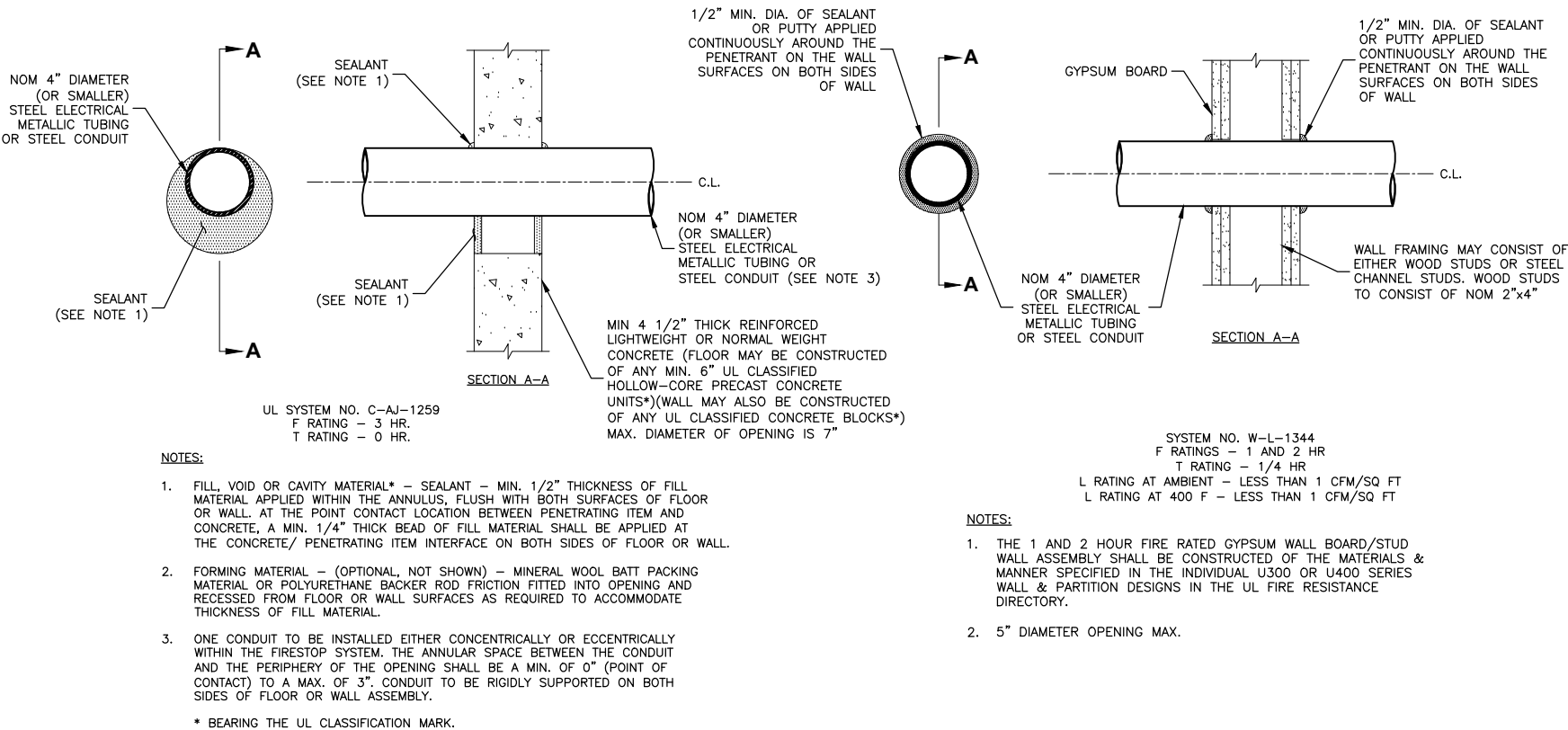
NOTES:

- THE 1 AND 2 HOUR FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS & MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL & PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY.
- 5" DIAMETER OPENING MAX.

SECTION - THROUGH
PENETRATION FIRESTOP SYSTEM

SCALE: N.T.S.

4



CORING DETAIL

SCALE: N.T.S.

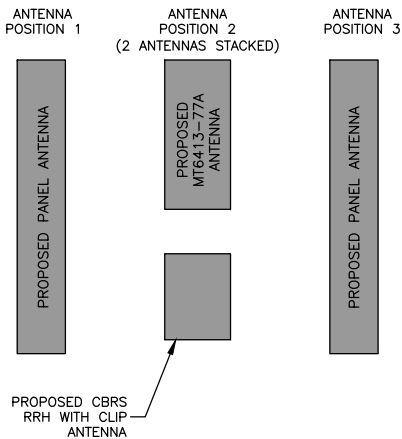
3

FINAL EQUIPMENT CONFIGURATION									
SECTOR	POSITION	TECHNOLOGY	ANTENNA MODEL	VENDOR	RRH (QTY./MODEL)	CENTERLINE (A.G.L.)	AZIMUTH	OVP – HYBRID CABLE (ASSEMBLY)	FEED LINE LENGTH*
ALPHA	A1	LTE 700/850/1900/AWS	(P) NHH-65A-R2B	COMMSCOPE	(1) (P) (RF4461d-13A) (SHARED WITH OTHER ANTENNA)	53'-2"±	0°	(2) (P) 3x6 NGOVP HYBRID CABLE ASSEMBLY	380'±
	A2	5G CBAND	(P) MT6413-77A	SAMSUNG	–	54'-9"±	0°		
	A3	CBRS LTE	(P) R0440CC – CLIP ON ANTENNA FOR RT4423	SAMSUNG	–	51'-1"±	0°		
	A4	LTE 700/850/1900/AWS	(P) NHH-65A-R2B	COMMSCOPE	(1) (P) (RF4801d-25A) (SHARED WITH OTHER ANTENNA)	53'-2"±	0°		
BETA	B1	LTE 700/850/1900/AWS	(P) NHH-65A-R2B	COMMSCOPE	(1) (P) (RF4461d-13A) (SHARED WITH OTHER ANTENNA)	53'-2"±	170°	(2) (P) 3x6 NGOVP HYBRID CABLE ASSEMBLY	130'±
	B2	5G CBAND	(P) MT6413-77A	SAMSUNG	–	54'-9"±	170°		
	B3	CBRS LTE	(P) R0440CC – CLIP ON ANTENNA FOR RT4423	SAMSUNG	–	51'-1"±	170°		
	B4	LTE 700/850/1900/AWS	(P) NHH-65A-R2B	COMMSCOPE	(1) (P) (RF4801d-25A) (SHARED WITH OTHER ANTENNA)	53'-2"±	170°		
GAMMA	C1	LTE 700/850/1900/AWS	(P) NHH-65A-R2B	COMMSCOPE	(1) (P) (RF4461d-13A) (SHARED WITH OTHER ANTENNA)	53'-2"±	280°	(2) (P) 3x6 NGOVP HYBRID CABLE ASSEMBLY	35'±
	C2	5G CBAND	(P) MT6413-77A	SAMSUNG	–	54'-9"±	280°		
	C3	CBRS LTE	(P) R0440CC – CLIP ON ANTENNA FOR RT4423	SAMSUNG	–	51'-1"±	280°		
	C4	LTE 700/850/1900/AWS	(P) NHH-65A-R2B	COMMSCOPE	(1) (P) (RF4801d-25A) (SHARED WITH OTHER ANTENNA)	53'-2"±	280°		
*CONTRACTOR TO FIELD VERIFY HYBRID CABLE LENGTHS PRIOR TO CONSTRUCTION. LENGTH IS ESTIMATED FROM THE BASE EQUIPMENT OVP TO SECTOR OVP WITH 15% BUFFER. FINAL EQUIPMENT CONFIGURATION TABLE BASED ON RFDS PROVIDED BY VERIZON WIRELESS DATED 06/26/25 & 07/18/25.									
(P) = PROPOSED									

FINAL EQUIPMENT CONFIGURATION

SCALE: N.T.S.

1



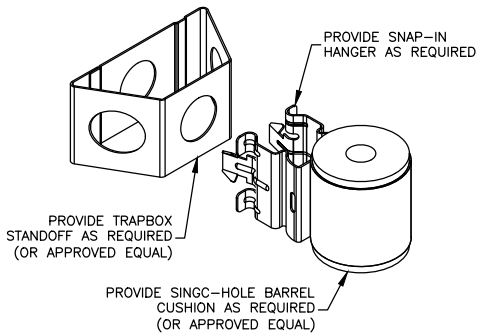
NOTES:

- AS VIEWED STANDING BEHIND THE ANTENNAS.
- CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN PRIOR TO CONSTRUCTION.
- DETAIL TYPICAL FOR ALL SECTORS.

ANTENNA CONFIGURATION

SCALE: N.T.S.

2



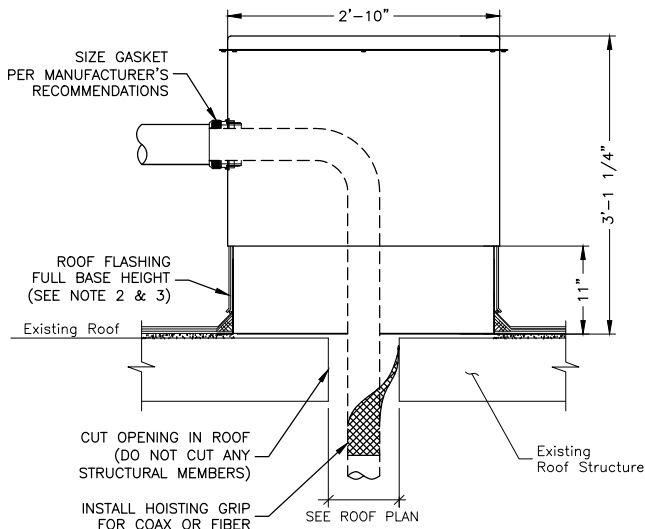
NOTE:

- PROVIDE C-CLAMP SUPPORTS & STAINLESS STEEL HOSE CLAMPS AS REQUIRED BY SITE CONDITIONS.

JUMPER MOUNT

SCALE: N.T.S.

3



NOTES:

- INSTALL RPH-ROOF PENETRATION HOUSINGS LLC ASSEMBLY PER MANUFACTURER'S SPECIFICATIONS BY FISKIO INC. (800) 288-6816 (IN NEW ENGLAND) (800) 994-0945 (OUTSIDE NEW ENGLAND).
- FLASHING & SEALANTS TO MATCH EXISTING ROOFING SYSTEM. WEATHERPROOF ALL EDGES WITH EXTERIOR GRADE SILICON.
- CONTRACTOR TO USE LANDLORD'S APPROVED ROOFER AND SHALL NOT VOID ANY EXISTING WARRANTY. CONTRACTOR TO SEAL ALL UNUSED PORTS WITH PROPER SEALANT CAPS.
- NO STRUCTURAL JOISTS ARE TO BE CUT DURING INSTALLATION.

RPH-ROOF PENETRATION HOUSING

SCALE: N.T.S.

4

verizon

VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

SOMERVILLE EAST
MA

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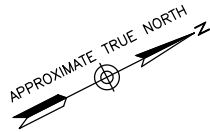
75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

FINAL EQUIPMENT
CONFIGURATION TABLE &
DETAILS

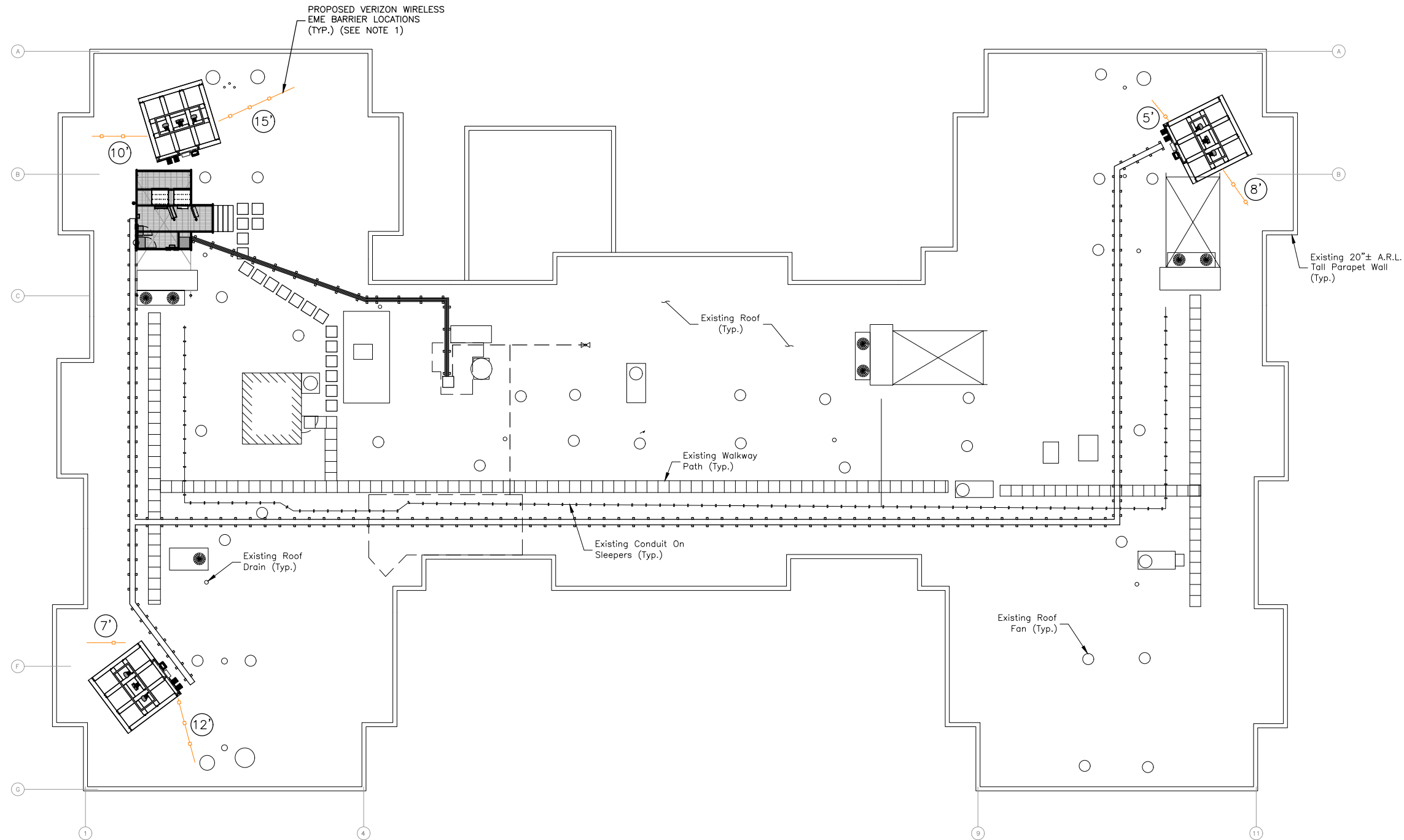
SHEET NUMBER

C-6



MYRTLE ST.

PEARL ST.



LEGEND

- (X') = PROPOSED EME BARRIER LENGTH (FT)
—○— = PROPOSED EME BARRIER LOCATION

EME BARRIER PLAN

SCALE: 3/64"=1' FOR 11"x17"
3/32"=1' FOR 22"x34"



1

NOTES:

1. APPROXIMATE BARRIER LOCATIONS BASED ON 'RADIO FREQUENCY EXPOSURE - FCC COMPLIANCE REPORT', SITE NAME SOMERVILLE_EAST_MA BY VERIZON DATED 10/31/25. SEE FULL REPORT FOR SIGNAGE AND BARRIER DETAILS.



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MEDWAY, MA 02053

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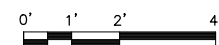
75 MYRTLE ST.
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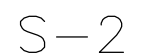
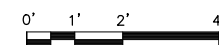
EME BARRIER PLAN

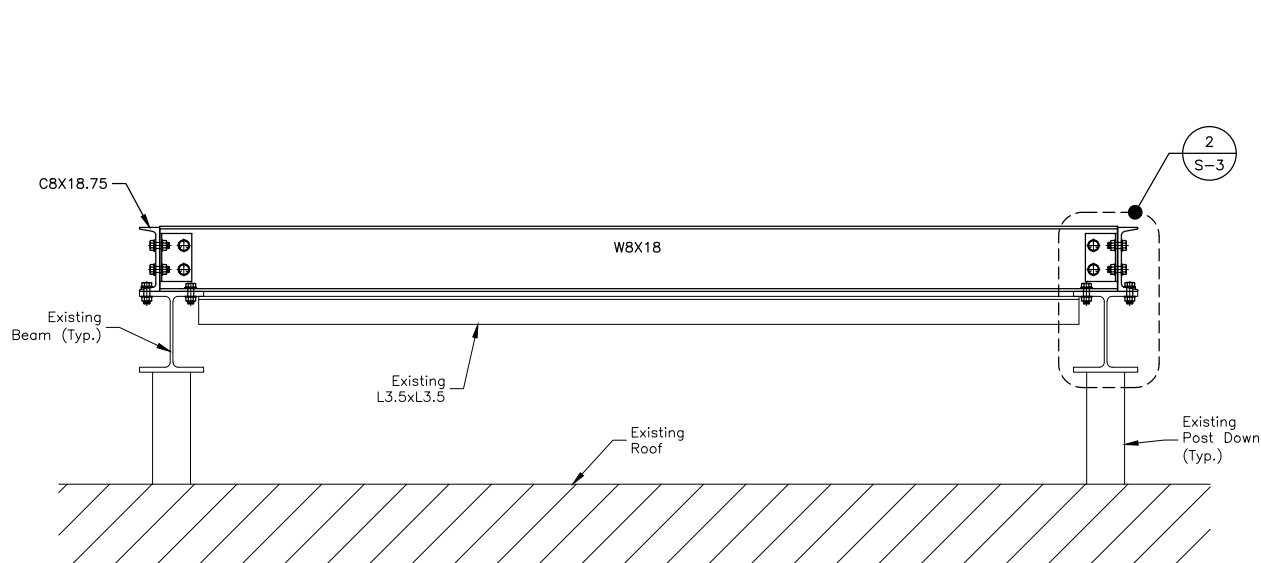
SHEET NUMBER

RF-1



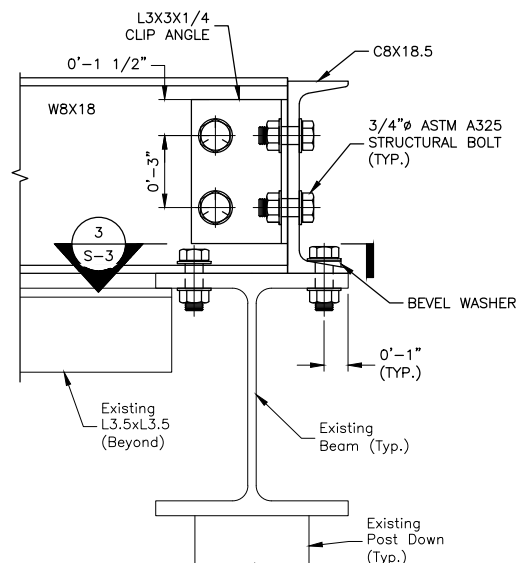
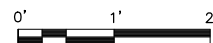
- STRUCTURAL ANALYSIS BASED ON LOADING SHOWN. NO
ADDITIONAL EQUIPMENT SHALL BE ADDED WITHOUT
ADDITIONAL ANALYSIS. SEE STRUCTURAL ANALYSIS REPORT
BY DEWBERRY ENGINEERS INC. DATED 08/08/23.





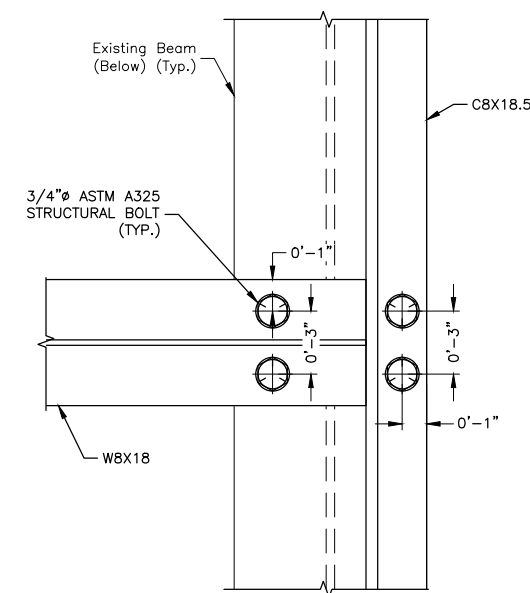
STEEL FRAME SECTION

SCALE: 1/2"=1' FOR 11"x17"
1"=1' FOR 22"x34"



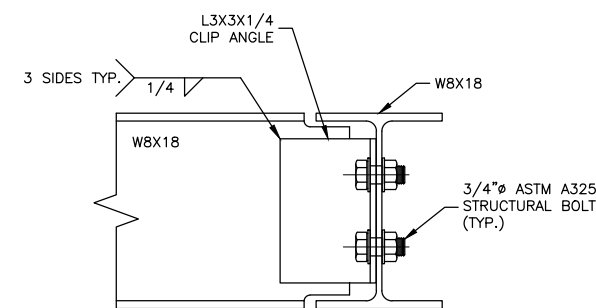
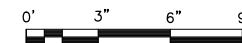
W8 TO C8 CONNECTION

SCALE: 1 1/2"=1' FOR 11"x17"
3"=1' FOR 22"x34"



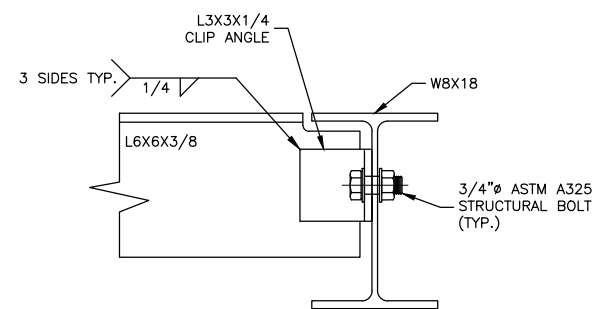
W8 TO C8 CONNECTION (PLAN)

SCALE: 1 1/2"=1' FOR 11"x17"
3"=1' FOR 22"x34"



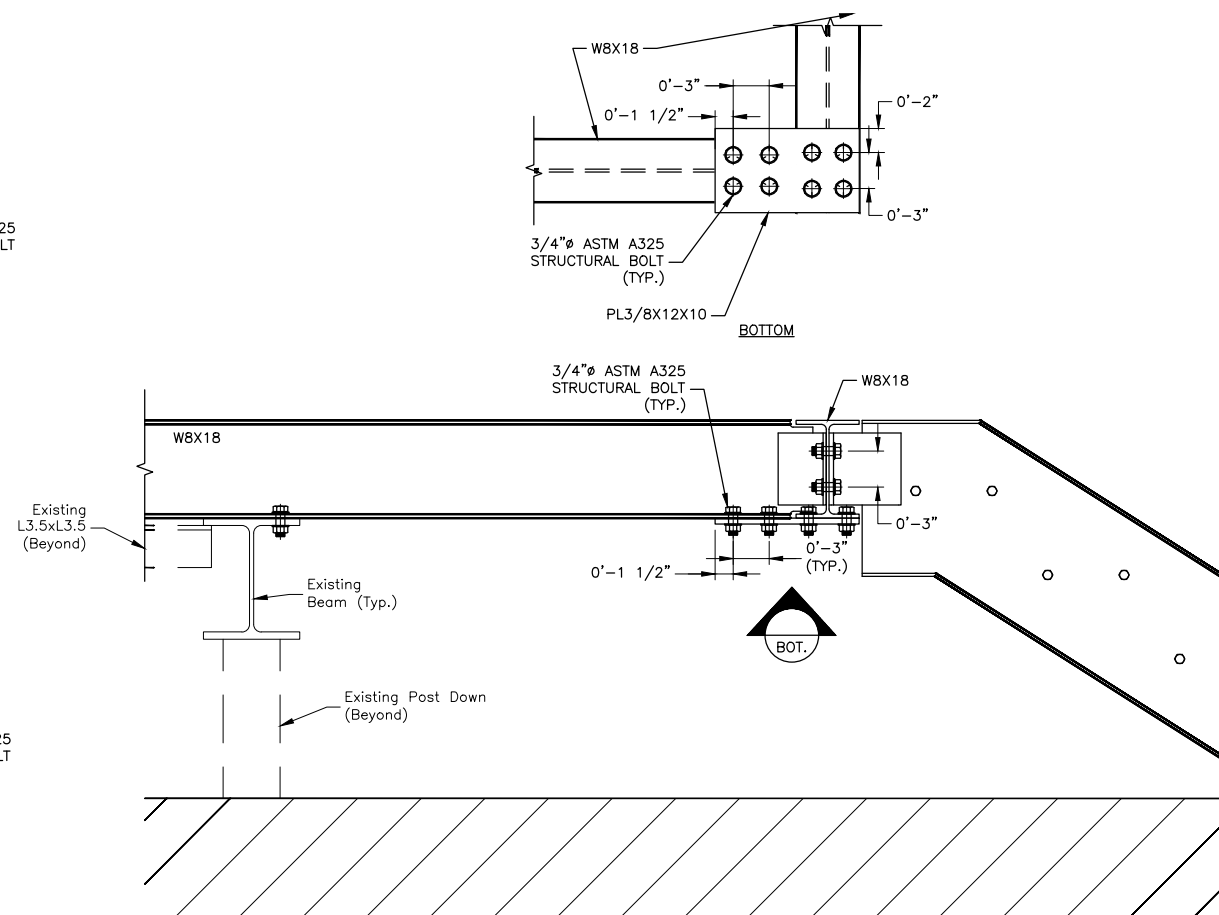
W8 TO W8 CONNECTION

SCALE: 1 1/2"=1' FOR 11"x17"
3"=1' FOR 22"x34"



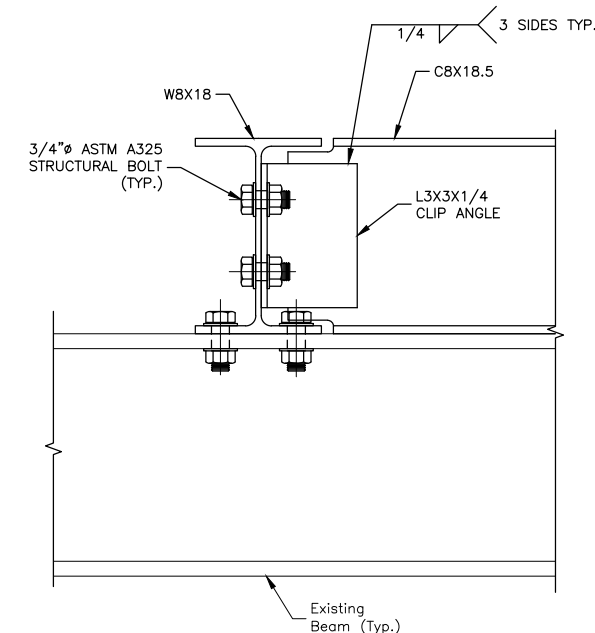
W8 TO ANGLE CONNECTION

SCALE: 1 1/2"=1' FOR 11"x17"
3"=1' FOR 22"x34"



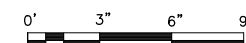
STAIR SECTION DETAIL

SCALE: 3/4"=1' FOR 11"x17"
1 1/2"=1' FOR 22"x34"



W8-C8 TO EXISTING BEAM CONNECTION

SCALE: 1 1/2"=1' FOR 11"x17"
3"=1' FOR 22"x34"



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VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

**SOMERVILLE EAST
MA**

CONSTRUCTION DRAWINGS

NO.	DATE	DESCRIPTION
5	04/13/26	FOR SUBMITTAL
4	03/25/26	FOR SUBMITTAL
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0	07/16/25	FOR SUBMITTAL
A	06/03/25	FOR COMMENT

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04/13/2026

DRAWN BY:	JG
REVIEWED BY:	OAS
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50183479
SITE LOCATION CODE (PSLC)	

783472

SITE ADDRESS

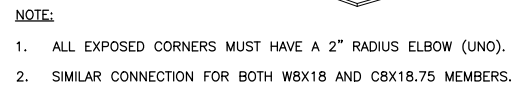
75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

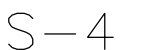
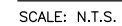
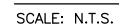
EQUIPMENT
STEEL FRAME DETAILS

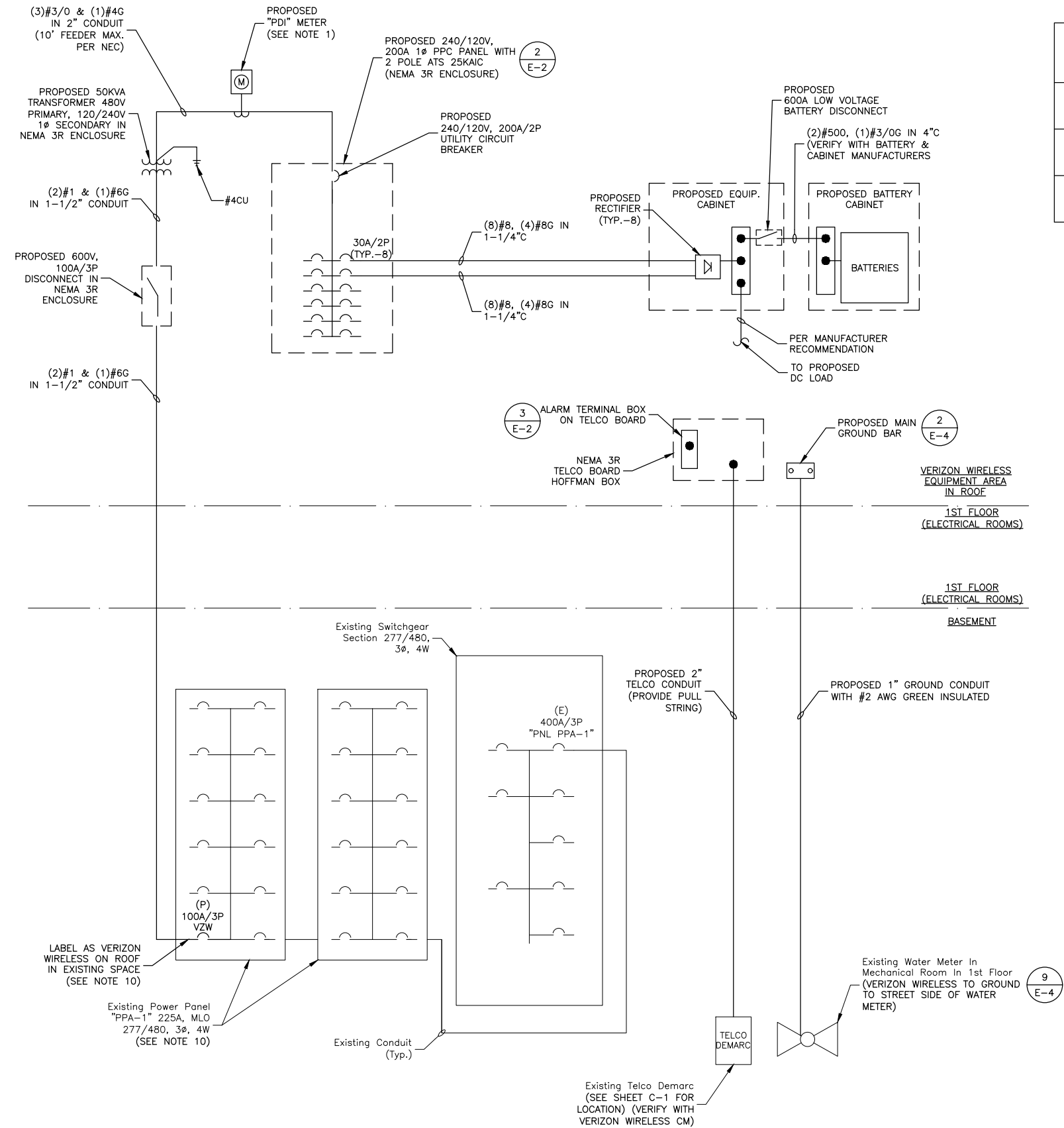
SHEET NUMBER

S-3



SCALE: N.T.S.





UTILITY	CONDUIT*		START	TERMINATE	APPROX. DISTANCE	NOTES
	SIZE	TYPE				
POWER	1-1/2"	SEE NOTE 1	1st FLOOR	VERIZON WIRELESS EQUIPMENT PLATFORM ON THE ROOF	240'±	VERIFY ROUTE WITH BUILDING OWNER
TELCO	(1) 2"Ø WITH PULL STRING	SEE NOTE 1	1st FLOOR	VERIZON WIRELESS EQUIPMENT PLATFORM ON THE ROOF	240'±	VERIFY ROUTE WITH BUILDING OWNER & DEMARC LOCATION WITH UTILITY CO. PROVIDER
GROUND	1"Ø	SEE NOTE 1	1st FLOOR	VERIZON WIRELESS EQUIPMENT PLATFORM ON THE ROOF	200'±	VERIFY ROUTE & CONNECTION WITH BUILDING OWNER.

CONDUIT NOTES:

- SEE GENERAL ELECTRICAL NOTE #26 ON SHEET G-1 FOR CONDUIT SPECIFICATIONS.
- CONDUIT LENGTHS SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY CONDUIT LENGTH & ROUTE PRIOR TO CONSTRUCTION. OWNER & VERIZON WIRELESS C.M. TO APPROVE FINAL ROUTINGS.
- CONTRACTOR TO IDENTIFY ALL CONDUIT PENETRATIONS, TURNS, PULL BOXES, EXPANSION JOINTS & VERIFY ROUTE WITH VERIZON WIRELESS CM & BUILDING OWNER PRIOR TO CONSTRUCTION.
- PAINT CONDUIT TO MATCH EXISTING SURROUNDINGS AS REQUIRED BY BUILDING OWNER & PROVIDE LABELS PER VERIZON WIRELESS REQUIREMENTS.
- CONTRACTOR TO VERIFY LOCATION OF REINFORCEMENT IN EXISTING CONCRETE USING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILL OR ANCHORING. MAINTAIN PROPER CLEARANCES FROM EXISTING REINFORCEMENT.
- FIRE STOP ALL INTERIOR WALL PENETRATIONS. WEATHER SEAL ALL EXTERIOR WALL PENETRATIONS.

CONDUIT CHART

SCALE: N.T.S.

2

LEGEND

	CIRCUIT BREAKER		GROUND BAR
	CHECK METER		GROUND
	EXISTING WATER METER		

NOTES:

- COORDINATE THE INSTALLATION OF NEW CHECK METER WITH BUILDING OWNER. PERMANENTLY LABEL METER AND BREAKER AS "VERIZON WIRELESS ON ROOF".
- COORDINATE ROUTING OF CONDUITS WITH BUILDING OWNER REPRESENTATIVES.
- COORDINATE POWER SHUT-DOWN WITH UTILITY COMPANY, BUILDING OWNER, & TENANTS.
- PROVIDE PULL BOXES AND EXPANSION JOINTS AS REQUIRED BY CODE AND JOB CONDITIONS.
- INSTALL ALL EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
- ALL GROUNDING SHALL COMPLY WITH NEC ARTICLE 250.
- SEE SHEET S-1 FOR EQUIPMENT LAYOUT.
- POWER FEEDS FROM DISTRIBUTION PANEL.
- INSTALL 1" LIQUID TIGHT DROPS FROM JUNCTION BOX (PROVIDED BY CONTRACTOR) TO RECTIFIER CONNECTOR.
- CONTRACTOR TO PERFORM AN ELECTRICAL LOAD STUDY PRIOR TO CONSTRUCTION TO VERIFY EXISTING POWER PANEL ADEQUACY TO ADD VERIZON WIRELESS ELECTRICAL LOAD. COORDINATE WITH DEWBERRY ENGINEERS, BUILDING OWNER AND VERIZON WIRELESS CM.

ELECTRICAL ONE-LINE DIAGRAM

SCALE: N.T.S.

1

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VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

SOMERVILLE EAST
MA

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04/14/26

DRAWN BY: JG

REVIEWED BY: OAS

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50183479

SITE LOCATION CODE (PSLC)

783472

SITE ADDRESS

75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

ELECTRICAL ONE-LINE
DIAGRAM

SHEET NUMBER

E-1

SINGLE PHASE 2 WIRE
CIRCUIT & WIRE SCHEDULE

COPPER CONDUCTORS SIZE		
CONDUCTORS	SIZE CONDUIT	CIRCUIT OR OVERCURRENT RATING
2#12 & 1#12G.	3/4"	15A
2#12 & 1#12G.	3/4"	20A
2#10 & 1#10G.	3/4"	30A
2#8 & 1#10G.	3/4"	40A
2#6 & 1#10G.	3/4"	50A
2#6 & 1#10G.	3/4"	60A

SINGLE PHASE 3 WIRE
CIRCUIT & WIRE SCHEDULE

COPPER CONDUCTORS SIZE		
CONDUCTORS	SIZE CONDUIT	CIRCUIT OR OVERCURRENT RATING
2#12, 1#12N & 1#12G	3/4"	15A
2#12, 1#12N & 1#12G	3/4"	20A
2#10, 1#10N & 1#10G	3/4"	30A
2#8, 1#8N & 1#10G	1"	40A
2#6, 1#6N & 1#10G	1"	50A
2#6, 1#6N & 1#10G	1"	60A

WIRE SCHEDULE

SCALE: N.T.S.

1

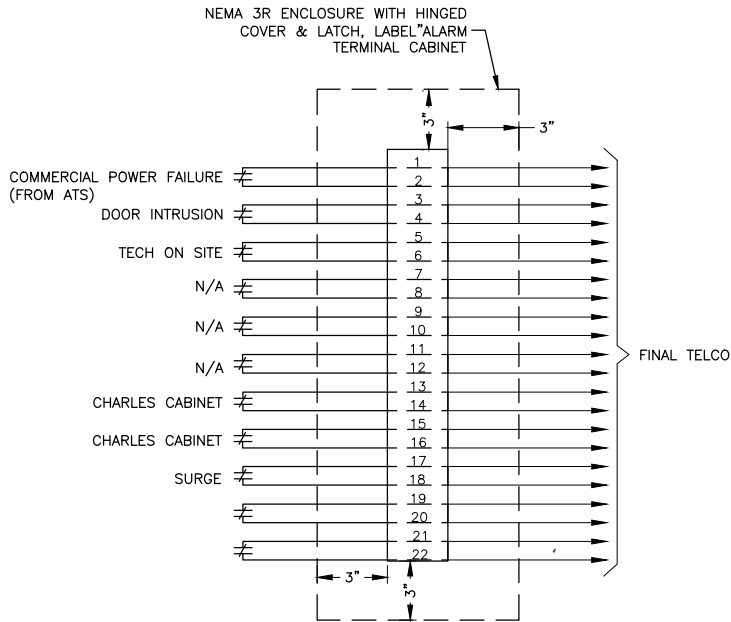
NEMA 3R PANEL SCHEDULE - ILC							V.I.F. A.I.C.
W/200A MAIN C/B							
CKT #	DESCRIPTION	KVA	AMP	AMP	KVA	DESCRIPTION	CKT #
1	RECTIFIER #1	3.1	30	30	3.1	RECTIFIER #2	2
3							4
5	RECTIFIER #3	3.1	30	30	3.1	RECTIFIER #4	6
7							8
9	RECTIFIER #5	3.1	30	30	3.1	RECTIFIER #6	10
11							12
13	RECTIFIER #7	3.1	30	30	3.1	RECTIFIER #8	14
15							16
17	SPACE		-	-		SPACE	18
19							20
21	TELCO CABINET	0.5	20	-	.24	LIGHTING	22
23	SPACE		-	-		SPACE	24
25	SPACE		-	-		SPACE	26
27	SPACE		-	-		SPACE	28
29	SPACE		-	-		SPACE	30
TOTAL KVA: 25.54							

*VERIFY ALL BREAKER SIZES WITH THE CABINET MANUFACTURER AND VERIZON WIRELESS PRIOR TO CONSTRUCTION.

PANEL SCHEDULE

SCALE: N.T.S.

2



CIRCUIT TERMINALS	ALARM DESIGNATION	ALARM GENERATED BY:
1-2	COMMERCIAL POWER FAILURE	TRANSFER SWITCH
3-4	DOOR INTRUSION	EITHER CABINET DOOR
5-6	TECH ON SITE	EITHER CABINET DOOR
7-8	N/A	N/A
9-10	N/A	N/A
11-12	N/A	N/A
13-14	CHARLES CABINET	TELCO CABINET AC FAIL
15-16	CHARLES CABINET	TELCO CABINET SURGE
17-18	SURGE	SURGE
19-20		
21-22		

ALARM TERMINAL NOTES:

- TERMINATIONS: TERMINATIONS TO THE ALARM STRIP WILL HAVE CRIMP ON BLOCK SPADE.
- LABELING: ALL ALARMS WILL BE LABELED WITH WHITE LAMINATED TAPE LABELS AT THE ALARM BLOCK.
- ALL ALARMS WILL BE BROUGHT TO THE TELCO BOARD AND CONNECTED TO THE TERMINAL STRIP.
- TERMINAL STRIP WILL BE LOCATED INSIDE A HOFFMAN BOX MOUNTED TO THE TELCO BOARD.
- USE A MINIMUM 18AWG WIRE TO BRING ALARMS TO THE ALARM BOARD.
- ALARM CONTACTS ARE NORMALLY CLOSED. OPENING OF CONTACTS INDICATES AN ALARM CONDITION.

ALARM DETAILS/SCHEDULE

SCALE: N.T.S.

3

verizon

VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

SOMERVILLE EAST
MA

CONSTRUCTION DRAWINGS

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04/14/26

DRAWN BY: JG

REVIEWED BY: OAS

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JOB NUMBER: 50183479

SITE LOCATION CODE (PSLC)

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SITE ADDRESS

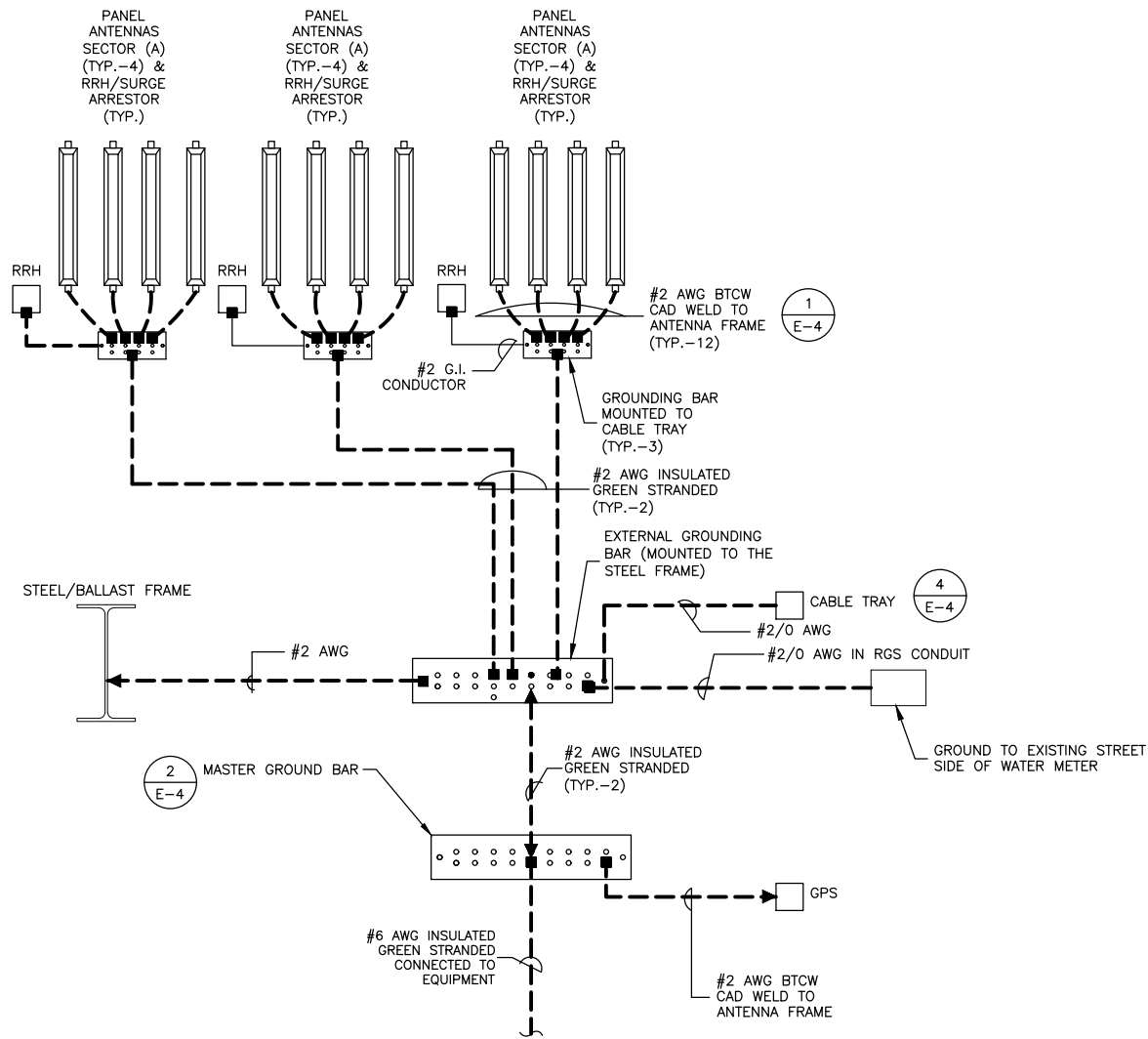
75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E-2



WIRE SIZE	LUG #	BOLT SIZE
#2	53207	1/4" - 20 NC x 1/2" S.S. BOLT & NUT W/LOCK WASHERS
#6	53205	

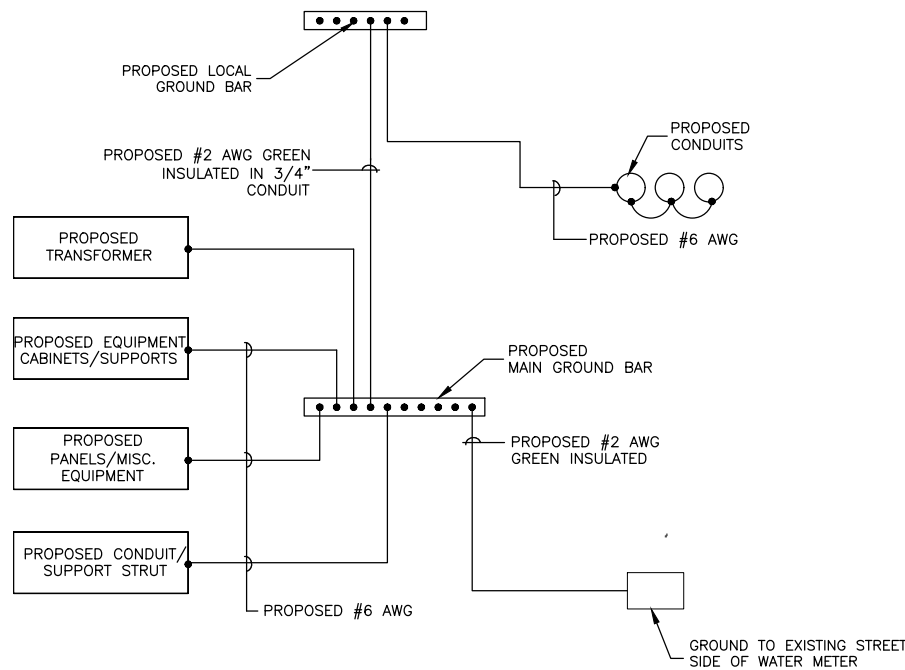
* USE WHERE EXOTHERMIC WELD IS NOT CALLED FOR.

GROUNDING LEGEND	
SYMBOL	DESCRIPTION
▶	EXOTHERMIC WELD
■	MECHANICAL CONNECTION
---	GROUND CONDUCTOR
G.I.	GREEN INSULATED

GROUNDING SCHEMATIC

SCALE: N.T.S.

1



GROUNDING DIAGRAM

SCALE: N.T.S.

2

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.



VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

SOMERVILLE EAST MA

CONSTRUCTION DRAWINGS

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04/14/26

DRAWN BY: JG

REVIEWED BY: OAS

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SITE LOCATION CODE (PSLC)

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SITE ADDRESS

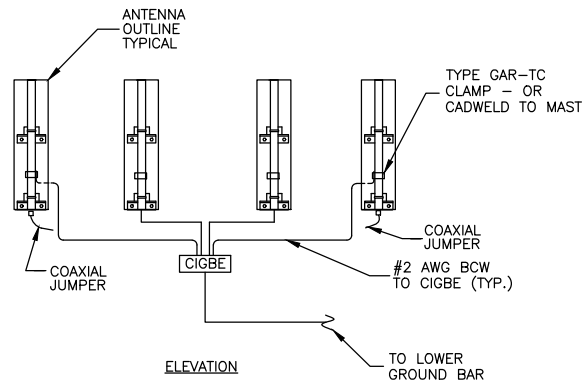
75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

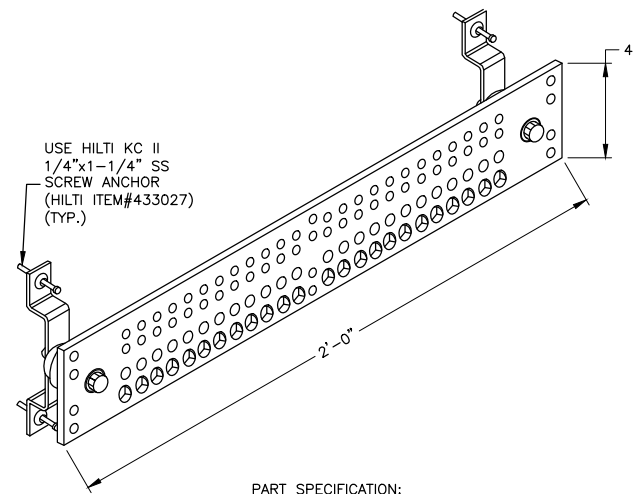
GROUNDING DIAGRAMS

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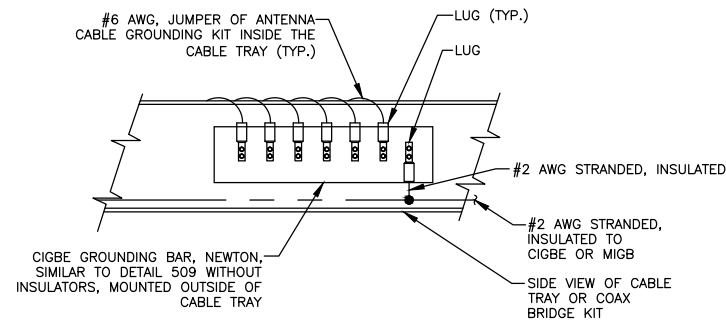
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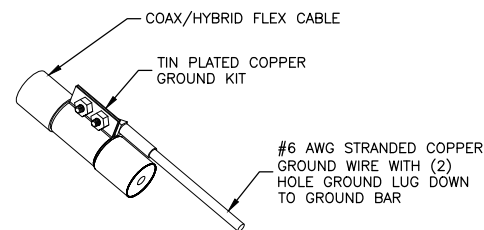
ANTENNA MOUNT GROUNDING DETAIL
SCALE: N.T.S.



GROUND BAR DETAIL
SCALE: N.T.S.

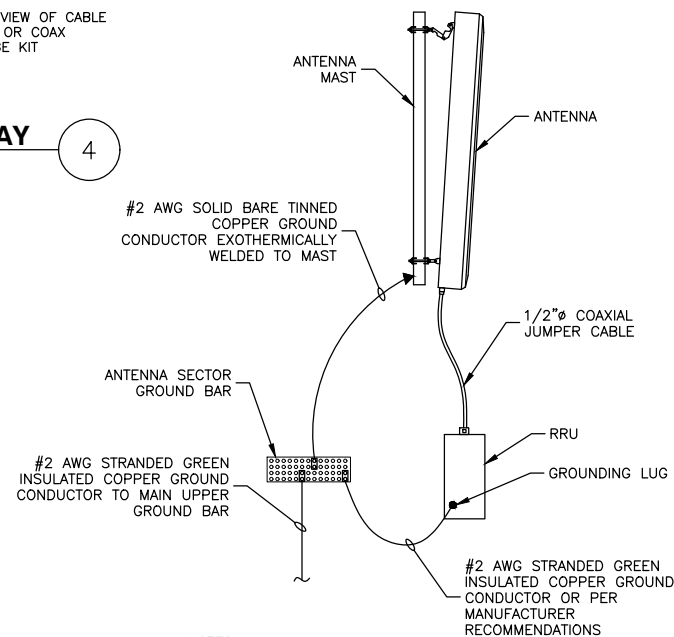


GROUNDING BAR MOUNTED ON CABLE TRAY
SCALE: N.T.S.



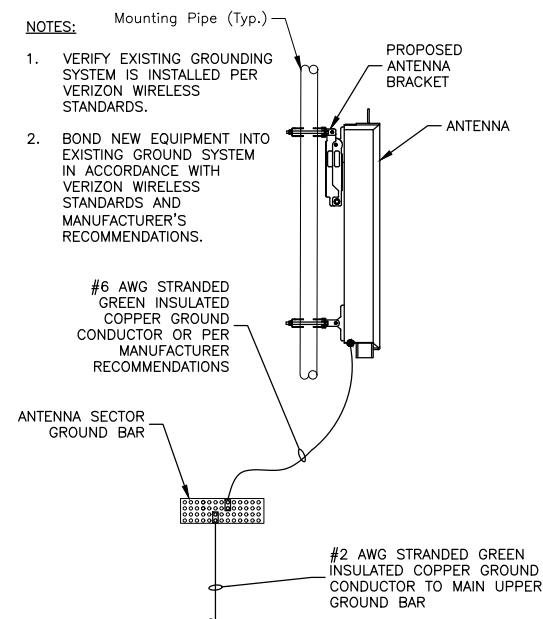
- NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT SHALL BE TIN PLATED COPPER WITH TWO-HOLE LUG, SIZE PER COAX DIAMETER.
 - WEATHER SEAL GROUND KIT PER CARRIER REQUIREMENTS.
 - COAX CABLE GROUND KIT LOCATION & QUANTITY SHALL BE PER CARRIER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

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

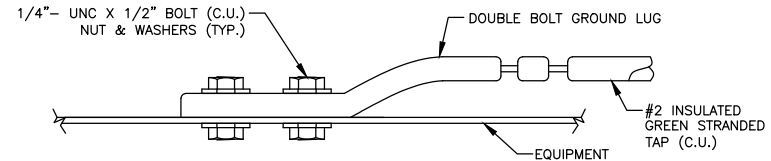


- NOTES:**
- VERIFY EXISTING GROUNDING SYSTEM IS INSTALLED PER VERIZON WIRELESS STANDARDS.
 - BOND NEW EQUIPMENT INTO EXISTING GROUND SYSTEM IN ACCORDANCE WITH VERIZON WIRELESS STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

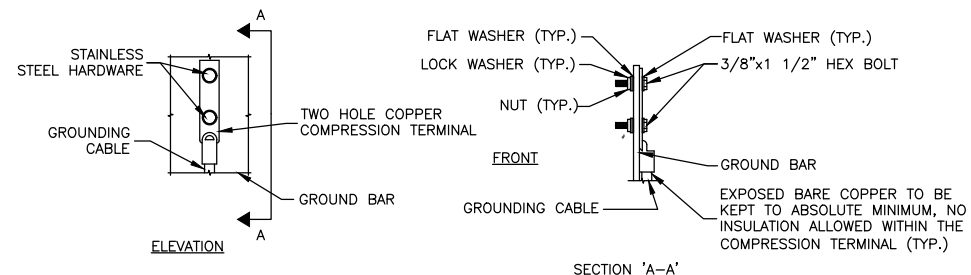
TYPICAL ANTENNA/RRU GROUNDING DETAIL
SCALE: N.T.S.



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

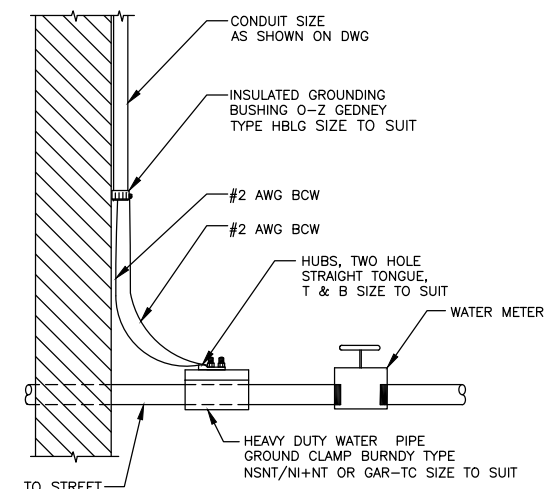


CONNECTION TO EQUIPMENT DETAIL
SCALE: N.T.S.



- NOTES:**
- DOUBLING UP OR STACKING OF CONNECTIONS IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL
SCALE: N.T.S.



- NOTE:**
- BURNDY TYPE GROUND CLAMP SHOULD BE ATTACHED ON STREET SIDE OF WATER CUT-OFF. VALVE IS INSULATED BETWEEN WATER METER & STREET GROUNDING CLAMP SHOULD BE ATTACHED TO STREET SIDE.

WATER METER GROUNDING
SCALE: N.T.S.

verizon

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**SOMERVILLE EAST
MA**

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SITE ADDRESS

75 MYRTLE ST.
SOMERVILLE, MA 02145

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

E-4