

20 ALEXANDER DRIVE, 2nd FLOOR, WALLINGFORD, CT 06492

STERLING 4 MA

56 KENDALL HILL ROAD STERLING, MA 01564

PROJECT TYPE: NEW RAW LAND WIRELESS TELECOMMUNICATIONS INSTALLATION WITH 125' MONOPOLE

SITE INFORMATION:

PROPERTY OWNER:

SALLY BECKWITH

56 KENDALL HILL ROAD

STERLING, MA 01564

APPLICANT: CELLCO PARTNERSHIP (dba VERIZON WIRELESS)

(dba VERIZON WIRELESS)
20 ALEXANDER DRIVE, 2nd FLOOR
WALLINGFORD, CT 06492

SITE ADDRESS: 56 KENDALL HILL ROAD STERLING, MA 01564

COUNTY: WORCESTER COUNTY, MA

SITE CONTROL POINT: CENTER OF PROPOSED MONOPOLE

N 42°-25'-33.87" (42.426075°) (NAD '83) W 71°-44'-44.86" (71.745794°) (NAD '83)

ZONING CLASSIFICATION: RRF (RURAL RESIDENTIAL & FARMING)

ZONING JURISDICTION: TOWN OF STERLING, MA

TAX ID PARCEL NUMBER: MAP 112 LOT 12

ARCHITECT / ENGINEER: CHAPPELL ENGINEERING ASSOCIATES, LLC

201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752

PRESIDING POWER COMPANY: STERLING MUNICIPAL LIGHT DEPARTMENT

50 MAIN STREET STERLING, MA 01564

TELEPHONE COMPANY: VERIZON

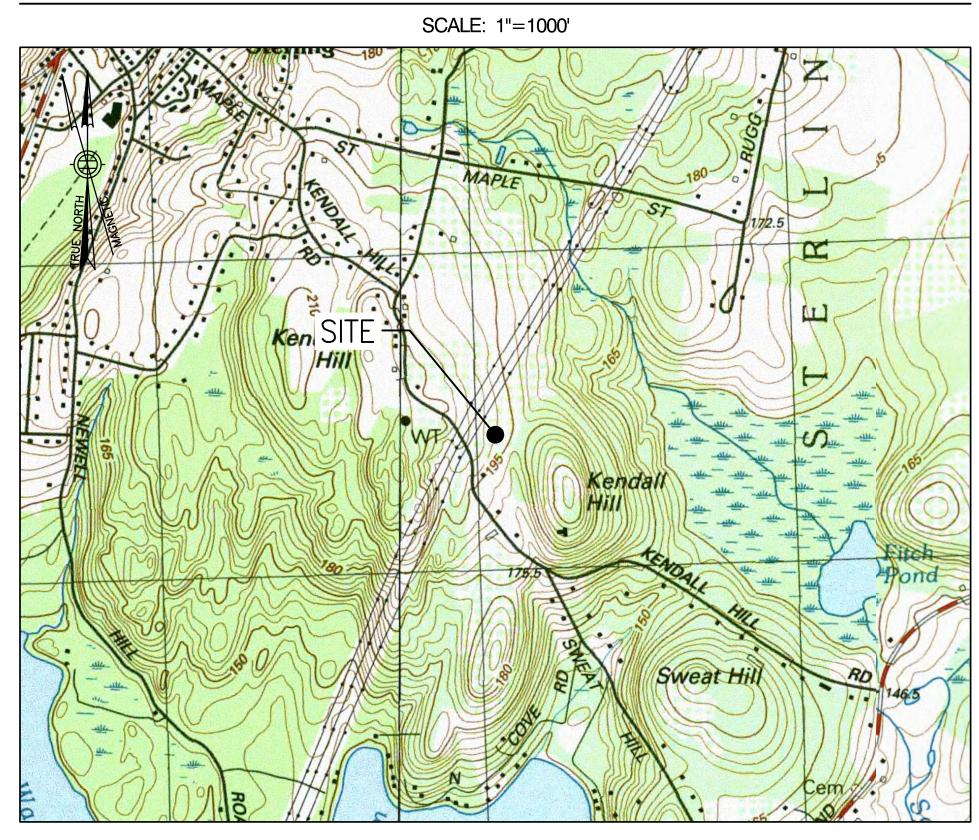
VERIZON 185 FRANKLIN STREET BOSTON, MA 02107

(800) 941-9900

ZONING DRAWINGS

(NOT FOR CONSTRUCTION)

VICINITY MAP



DRIVING DIRECTIONS

FROM WALLINGFORD, TAKE I-91 NORTH. TAKE EXIT 29 ON LEFT FOR U.S. 5 N/CONNECTICUT 15 N/I-84 EAST TOWARD EAST HARTFORD/BOSTON. MERGE ONTO US-5 NORTH. CONTINUE ONTO CT-15 NORTH. TAKE THE EXIT ON THE LEFT ONTO I-84 EAST TOWARD BOSTON. KEEP LEFT TO STAY ON I-84 EAST AND FOLLOW SIGNS FOR BOSTON. TAKE THE EXIT ONTO I-90 EAST TOWARD BOSTON/N.H. - MAINE. TAKE EXIT 90 FOR I-290 EAST TOWARD WORCESTER. TAKE EXIT 20-22-22-23 FOR I-190 NORTH TOWARD MA-12/HOLDEN/FITCHBURG. CONTINUE ONTO I-190 NORTH. KEEP LEFT TO STAY ON I-190 NORTH. TAKE EXIT 9 FOR MA-140 NORTH. TURN LEFT ONTO MA-140 NORTH. TURN RIGHT ONTO DANA HILL ROAD. CONTINUE ONTO MUDDY POND ROAD. MUDDY POND ROAD TURNS SLIGHTLY RIGHT AND BECOMES GREENLAND ROAD. TURN LEFT ONTO MA-12 NORTH. CONTINUE STRAIGHT ONTO MA-12 N/MA-62 EAST. TURN RIGHT ONTO MAPLE STREET. TURN RIGHT ONTO KENDALL HILL ROAD. TURN RIGHT TO STAY ON KENDALL HILL ROAD. TURN LEFT. THE SITE WILL BE ON THE LEFT HAND SIDE.

SHEET INDEX

DWG.	DESCRIPTION	REV.
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A01	EQUIPMENT COMPOUND PLAN	1
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A03	NORTHWEST AND SOUTHWEST EQUIPMENT COMPOUND ELEVATIONS	1
RF01	ANTENNA MOUNTING PLAN AND DETAILS	1
RF02	ANTENNA DETAILS AND ANCILLARY EQUIPMENT SPECIFICATIONS	1

DO NOT SCALE DRAWINGS

ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS AT THE PROPOSED PROJECT SITE SHALL BE VERIFIED IN THE FIELD DURING THE CONSTRUCTION PHASE. THE PROJECT OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES IMMEDIATELY PRIOR TO PROCEEDING WITH THE PROPOSED WORK AFFECTED BY SUCH DISCREPANCIES. IN THE EVENT OF LACK OF SUCH NOTIFICATION, SUCH DISCREPANCIES SHALL BECOME THE RESPONSIBILITY OF THE PREVAILING CONTRACTOR RESPONSIBLE FOR CONSTRUCTION.

PROJECT DESCRIPTION

- 1. THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT INSTALLATION AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC WIRELESS TELECOMMUNICATIONS SERVICE.
- 2. THIS FACILITY WILL CONSUME NO UNRECOVERABLE ENERGY.
- 3. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.
- NO WASTE WATER WILL BE GENERATED AT THIS LOCATION
 NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.

verizon Verizon

ARCHITECT/ENGINEER:



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(508) 481-7400
www.chappellengineering.com

SEAL:

ENGINEER/LAND SURVEYOR

DRAWING SCALE NOTE

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1	REVISED PER TOWN'S PEER REVIEWER	4/24/24		

PROJECT NAME:

STERLING 4 MA

PROJECT ADDRESS:

56 KENDALL HILL ROAD STERLING, MA 01564

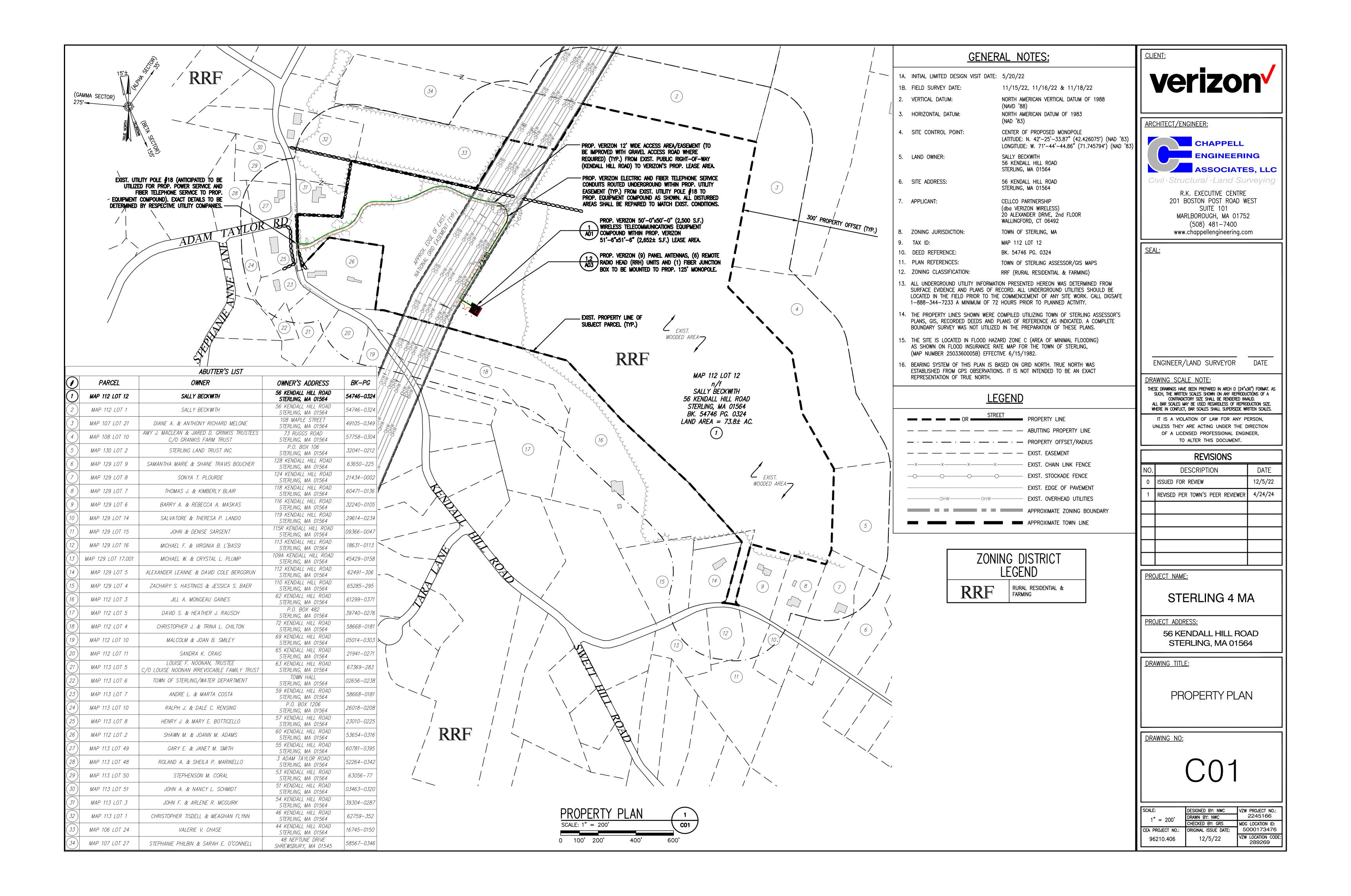
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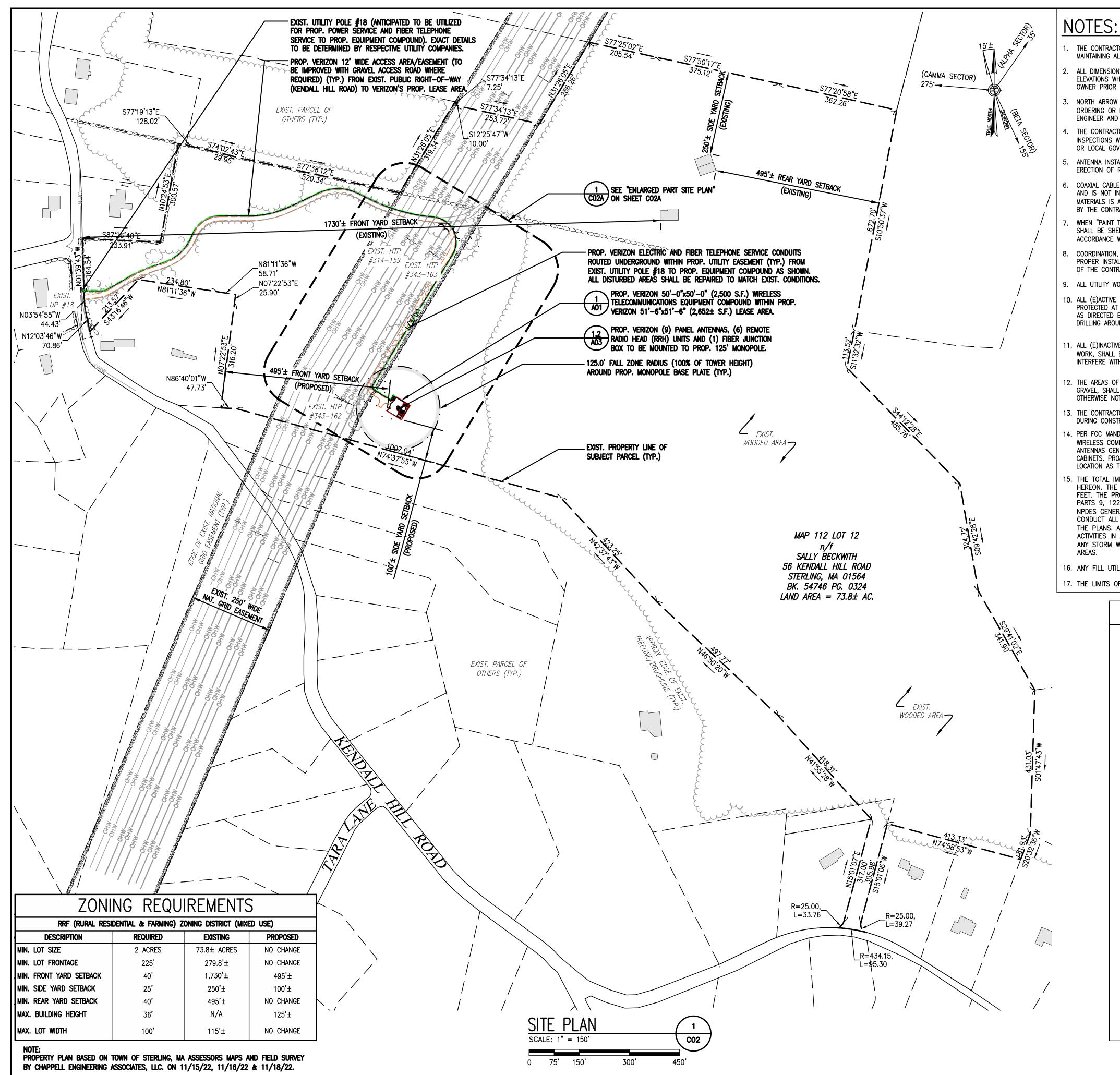
TITLE SHEET

DRAWING NO:

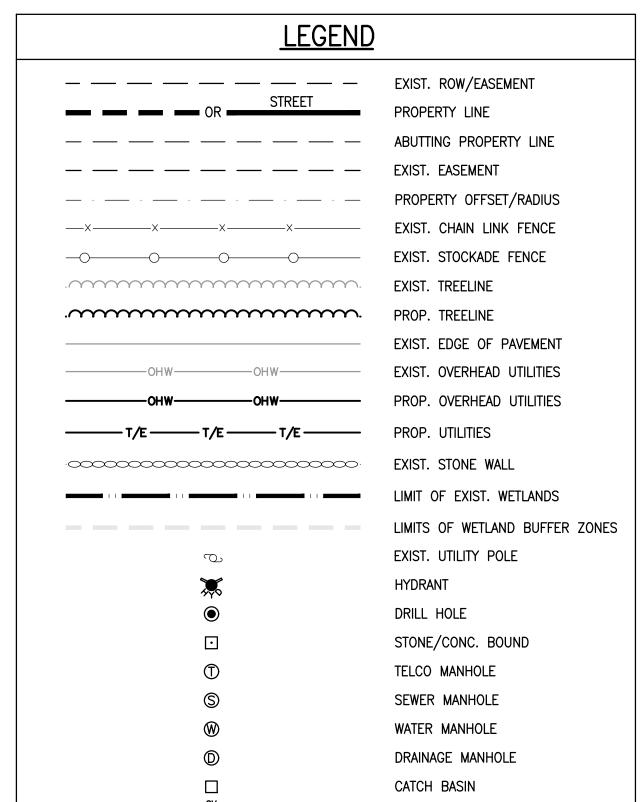
TO

SCALE:	DESIGNED BY: NWC	VZW PROJECT NO.:
AS SHOWN	DRAWN BY: NWC	2245166
7.6 61161111	CHECKED BY: GRS	MDG LOCATION ID:
CEA PROJECT NO.:	ORIGINAL ISSUE DATE:	5000173476
96210.406	12/5/22	VZW LOCATION CODE: 289269





- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS SHOWN HEREIN.
- ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.
- NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. PRIOR TO THE START OF CONSTRUCTION, ORDERING OR FABRICATING OF ANTENNA MOUNTS, CONTRACTOR SHALL CONSULT WITH PROJECT OWNER'S RF ENGINEER AND FIELD VERIFY ALL ANTENNA SECTOR LOCATIONS AND ANTENNA AZIMUTHS.
- THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.
- COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
- WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINE'S.
- COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY
- 9. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- 10. ALL (E)ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
- 11. ALL (E)INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING.
- 12. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED.
- 13. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES DURING CONSTRUCTION.
- 14. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROX. TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.
- 15. THE TOTAL IMPACT AREA OF THE DISTURBED CONSTRUCTION SITE IS BOUNDED BY THE LIMIT OF WORK AS SHOWN HEREON. THE MAXIMUM AREA OF DISTURBANCE WITHIN THE LIMIT OF WORK IS APPROXIMATELY 43.608 SQUARE FEET. THE PROJECT IMPACT AREA IS BELOW THE EXEMPTION THRESHOLD OF 43,560 SQUARE FEET IN 40 CFR PARTS 9. 122-124 AND THEREFORE IS NOT SUBJECT TO REGULATION UNDER THE EPA OR STATE-MANAGED NPDES GENERAL CONSTRUCTION PERMIT PROGRAM. THE PROJECT OWNER'S GENERAL CONTRACTOR SHALL CONDUCT ALL SITE DEVELOPMENT WORK IN A MANNER THAT DOES NOT EXCEED THE LIMITS OF WORK SHOWN ON THE PLANS. ADDITIONALLY. THE PROJECT OWNER'S GENERAL CONTRACTOR SHALL CONDUCT ALL CONSTRUCTION ACTIVITIES IN A MANNER THAT DOES NOT RESULT IN STORM WATER DISCHARGES WITH AN ADVERSE IMPACT ON ANY STORM WATER COLLECTION/CONVEYANCE SYSTEM, WETLAND, WATER BODY, OR OTHER WATER RESOURCE
- 16. ANY FILL UTILIZED FOR THIS PROJECT SHALL BE FREE OF HAZARDOUS MATERIALS AS REQUIRED BY BYLAW.
- 17. THE LIMITS OF CONSTRUCTION ACTIVITY SHALL BE MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION



GAS VALVE

WATER VALVE

CLIENT: verizon

ARCHITECT/ENGINEER:



Civil·Structural ·Land Surveying

R.K. EXECUTIVE CENTRE 201 BOSTON POST ROAD WEST SUITE 101 MARLBOROUGH, MA 01752 (508) 481-7400 www.chappellengineering.com

<u>SEAL:</u>

ENGINEER/LAND SURVEYOR

DRAWING SCALE NOTE:

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	NO.	DESCRIPTION	DATE	
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	1	REVISED PER TOWN'S PEER REVIEWER	4/24/24	
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PROJECT NAME:

STERLING 4 MA

PROJECT ADDRESS:

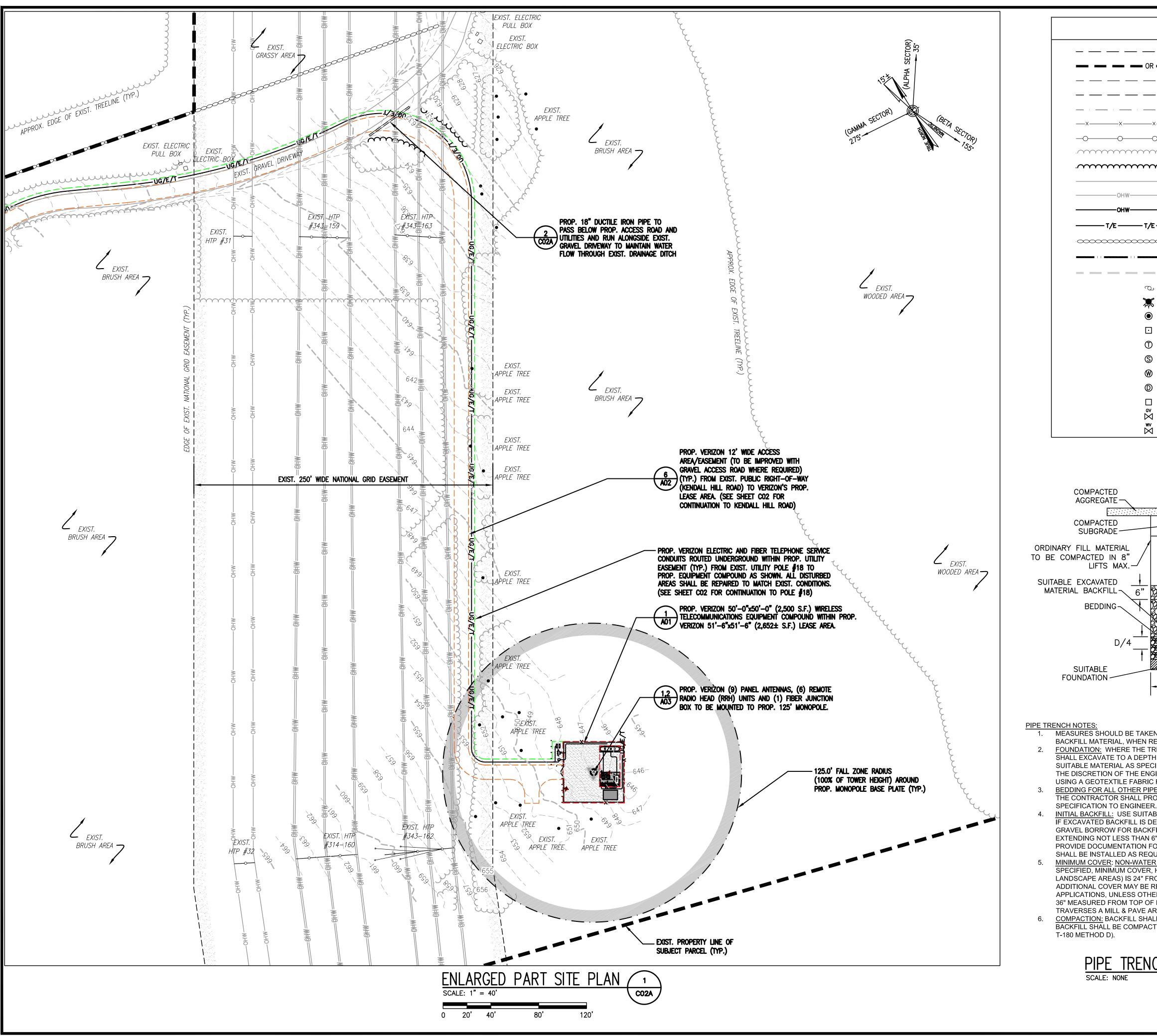
56 KENDALL HILL ROAD STERLING, MA 01564

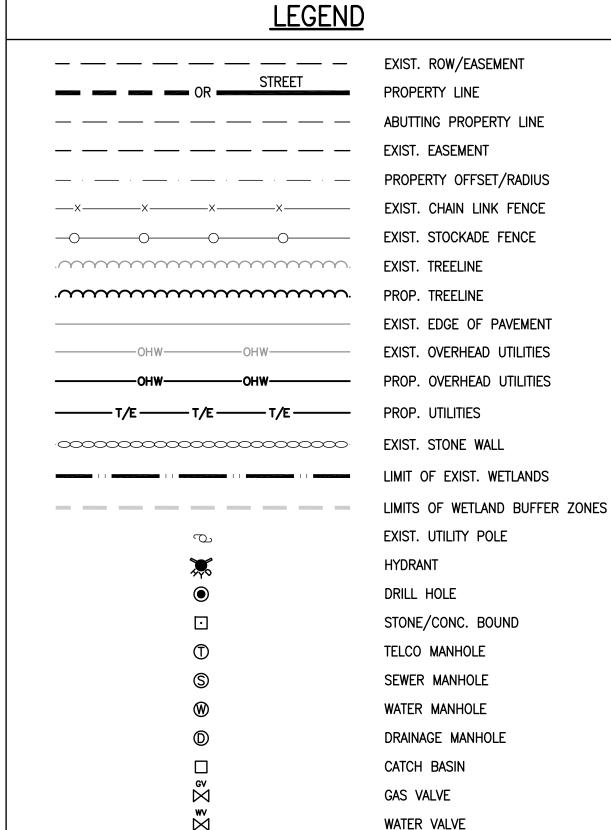
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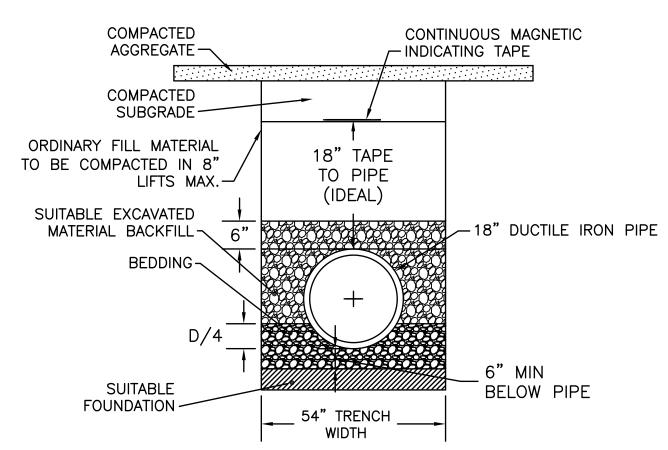
SITE PLAN

DRAWING NO:

SCALE:	DESIGNED BY: NWC	VZW PROJECT NO.:
1" = 150'	DRAWN BY: NWC	2245166
1 - 150	CHECKED BY: GRS	MDG LOCATION ID:
CEA PROJECT NO.:	ORIGINAL ISSUE DATE:	5000173476
96210.406	12/5/22	VZW LOCATION CODE: 289269







MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO

BACKFILL MATERIAL, WHEN REQUIRED.

FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE FABRIC FOR STABILIZATION.

BEDDING FOR ALL OTHER PIPES: USE GRAVEL BORROW TYPE b, MASSDOT M1.03.0. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL

INITIAL BACKFILL: USE SUITABLE EXCAVATED BACKFILL MATERIAL WHEN POSSIBLE, IF EXCAVATED BACKFILL IS DEEMED UNSUITABLE BY THE ENGINEER, USE MASSDOT GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

MINIMUM COVER: NON-WATER OR GRAVITY: UNLESS OTHERWISE SHOWN OR SPECIFIED, MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 24" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, UNLESS OTHERWISE SHOWN OR SPECIFIED, MINIMUM COVER, H, IS 36" MEASURED FROM TOP OF PIPE TO TOP OF PAVEMENT. WHERE TRENCH TRAVERSES A MILL & PAVE AREA, BACKFILL TO BOTTOM OF GRANULAR SUBBASE.

COMPACTION: BACKFILL SHALL BE COMPACTED IN LAYERS NOT TO EXCEED 6". BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY (AASHTO TEST T-180 METHOD D).

PIPE TRENCH DETAIL (2)



ARCHITECT/ENGINEER:



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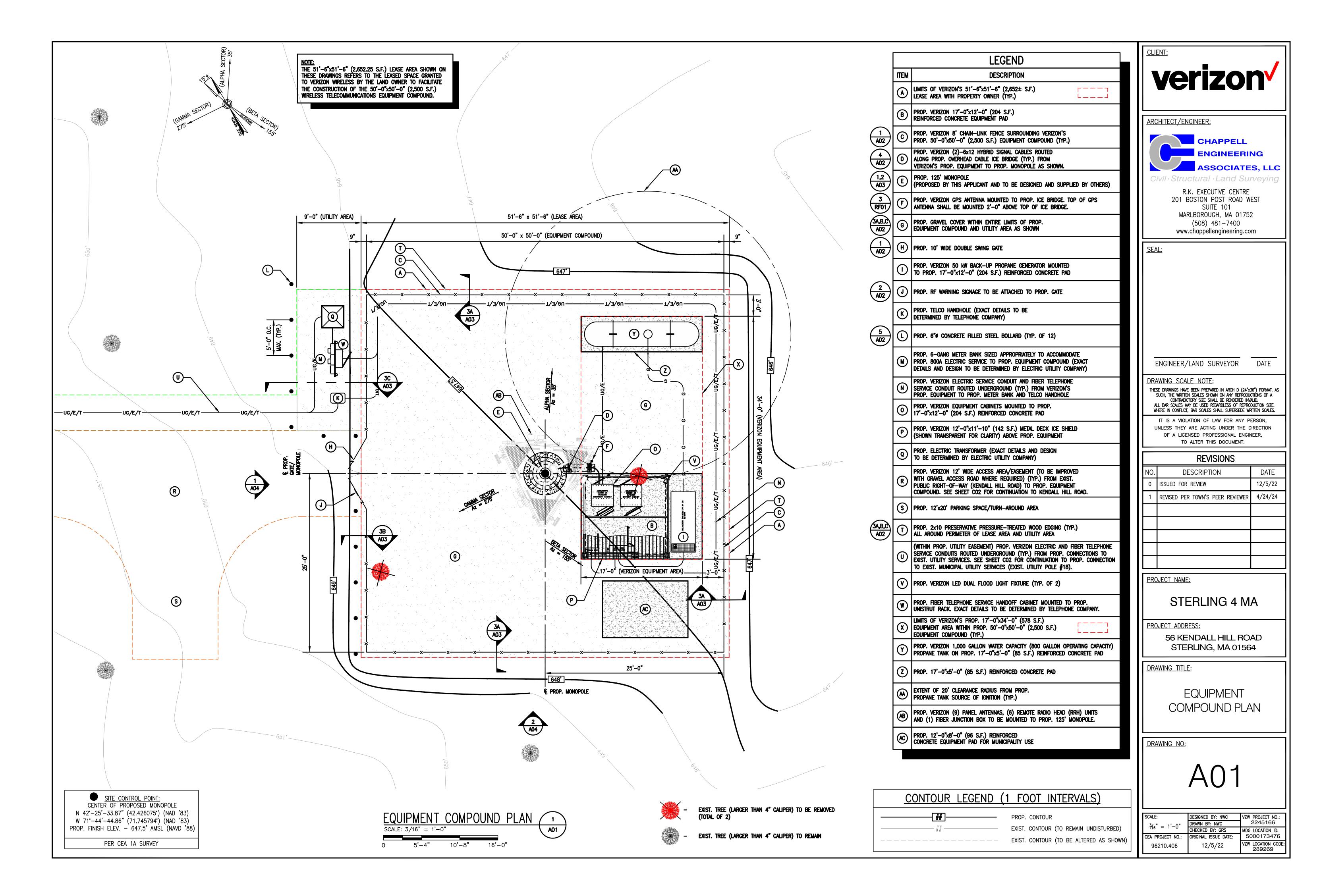
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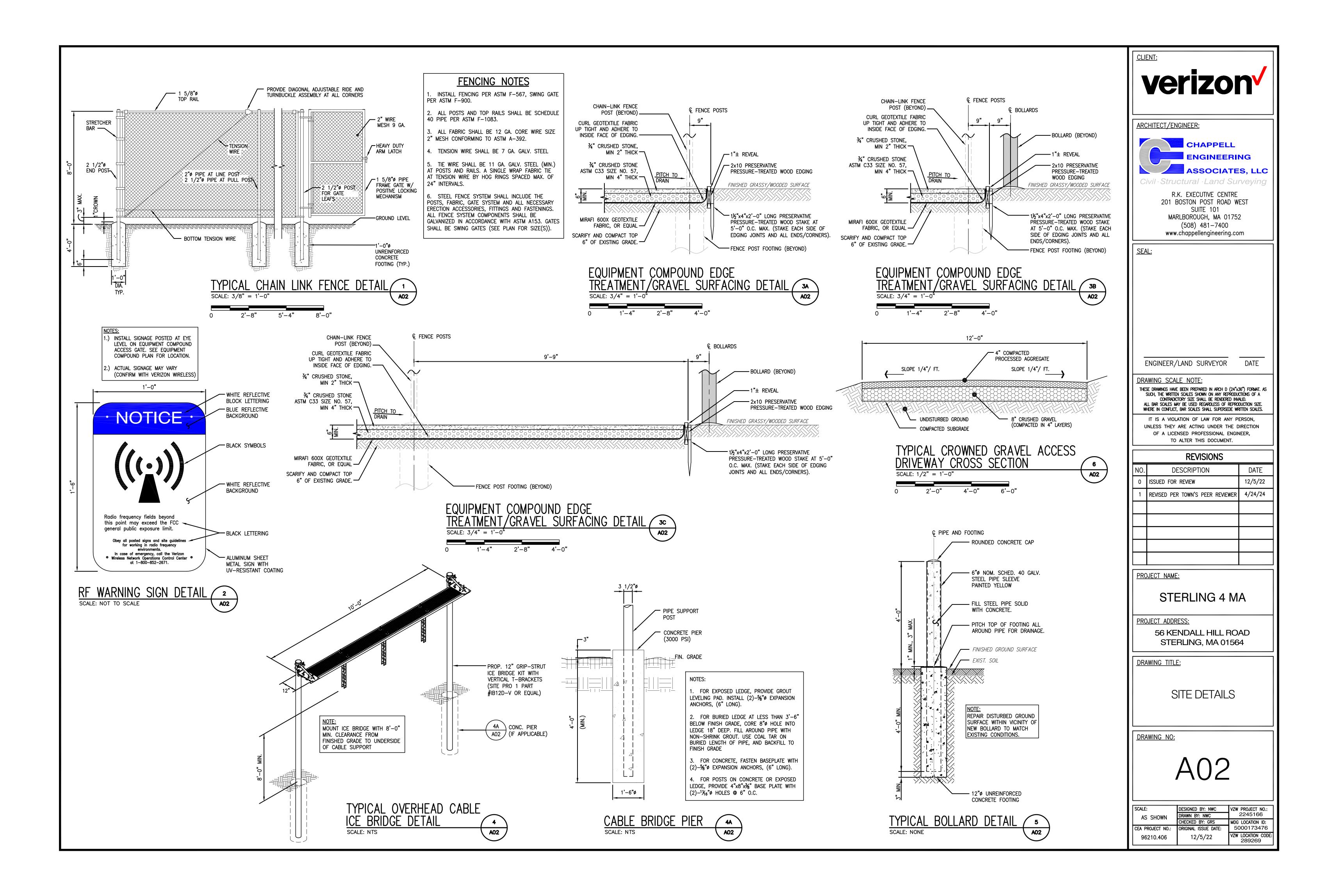
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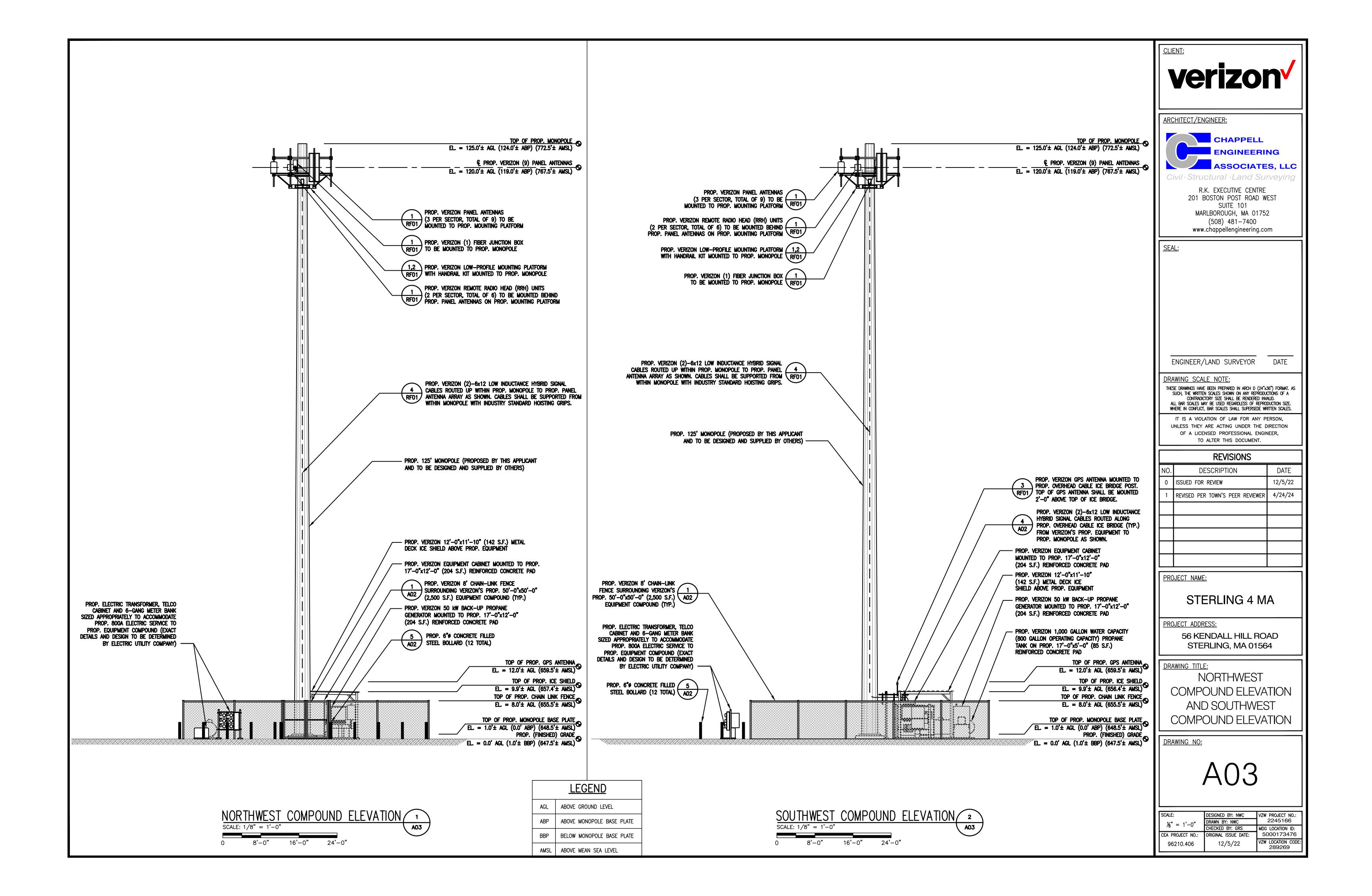
ENLARGED PART SITE PLAN

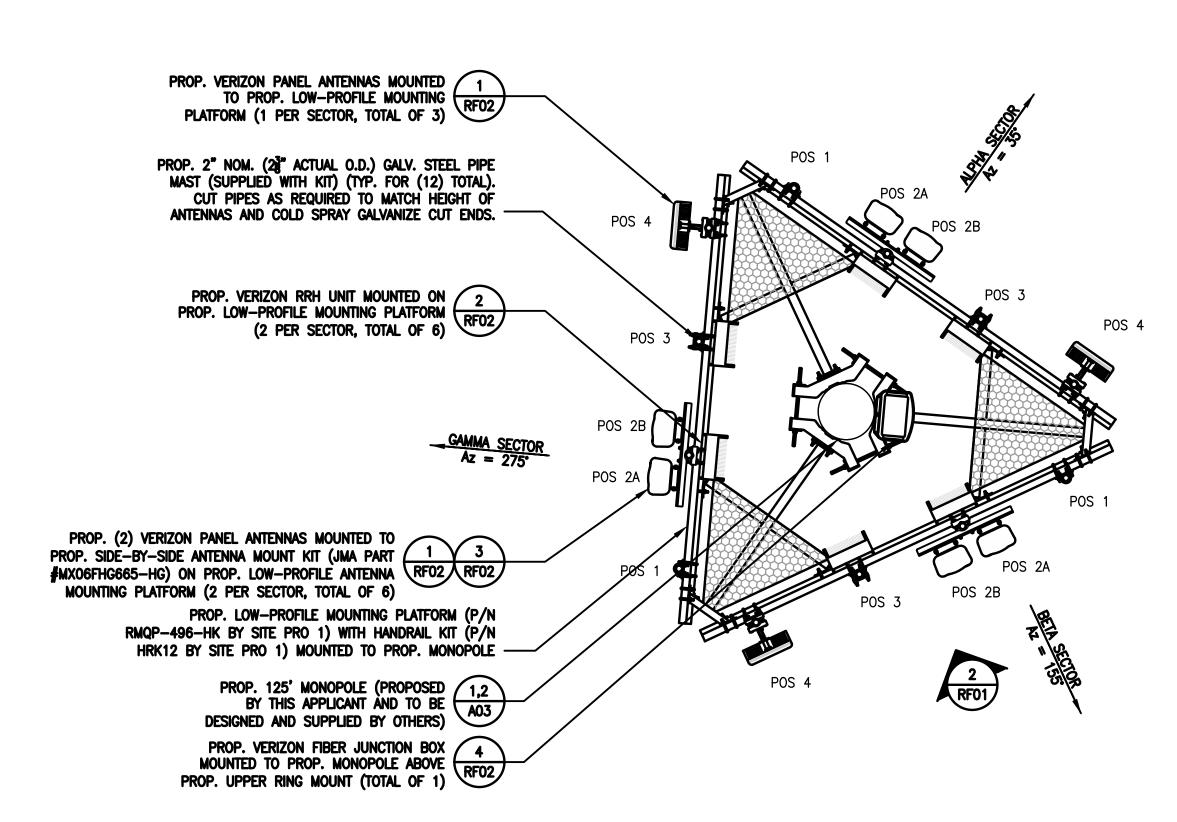
DRAWING NO:

SCALE:	DESIGNED BY: NWC	VZW PROJECT NO.:
1" = 40'	DRAWN BY: NWC	2245166
1 - 40	CHECKED BY: GRS	MDG LOCATION ID:
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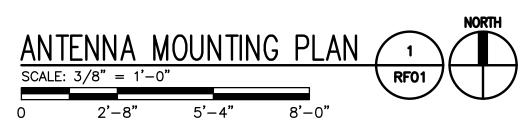


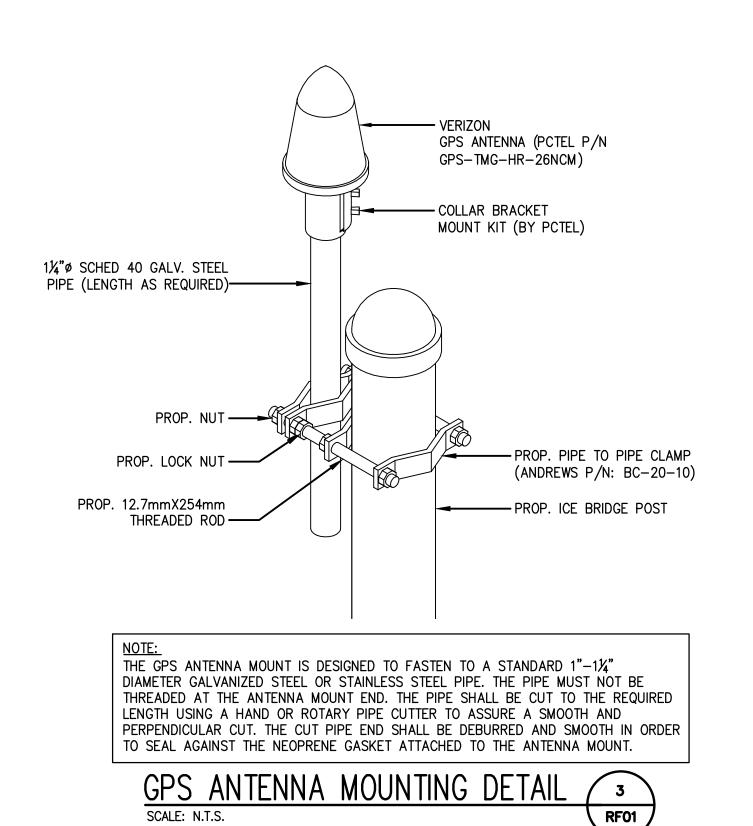


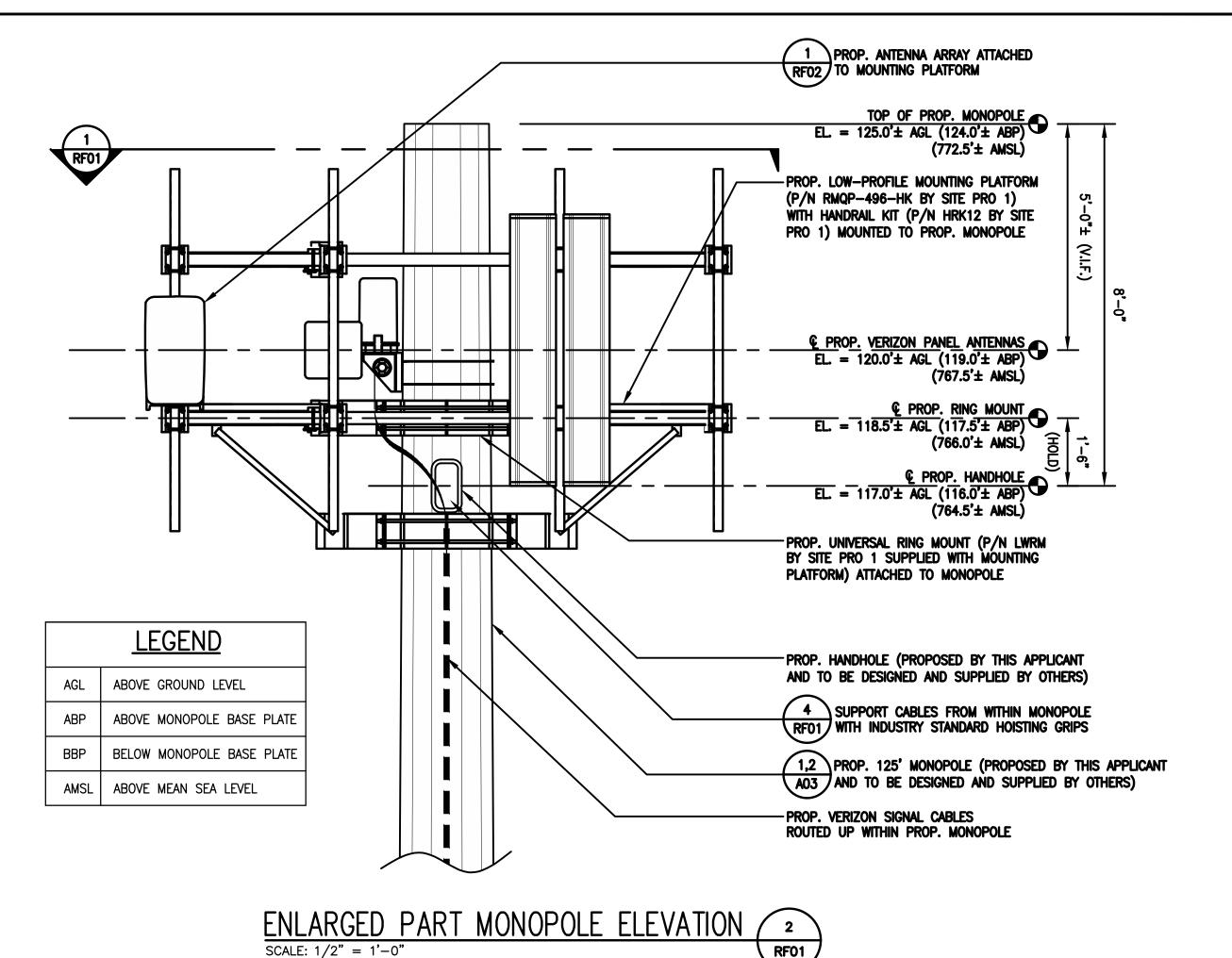


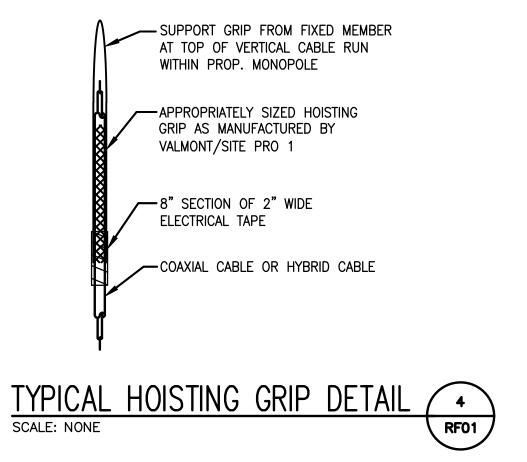


(PROP. MONOPOLE PLAN VIEW AT ELEVATION 120.0'± AGL)



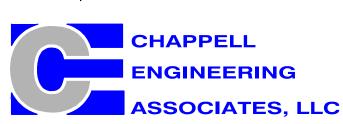








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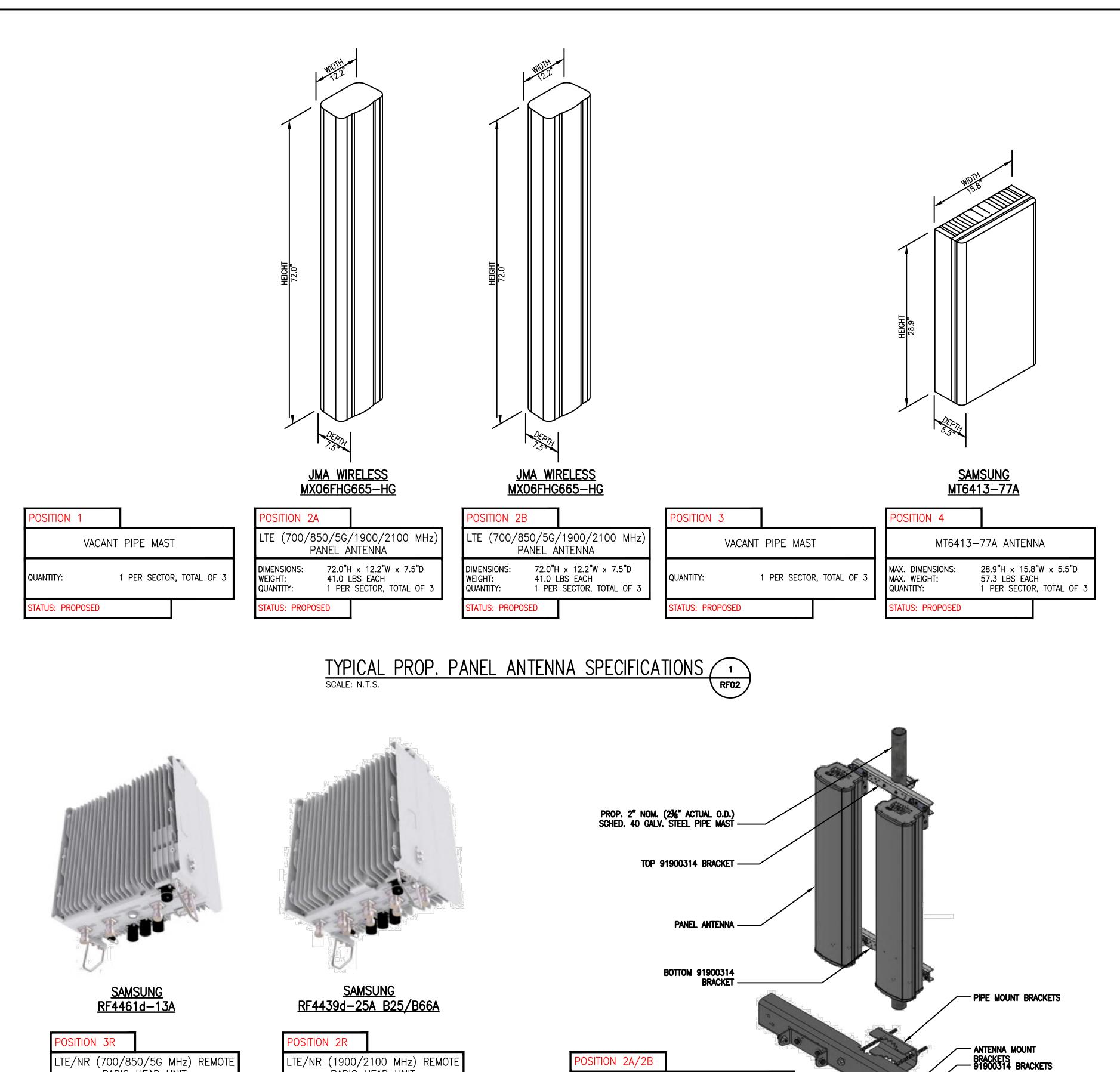
DRAWING TITLE:

ANTENNA MOUNTING PLAN
AND DETAILS

DRAWING NO:

RF01

SCALE:	DESIGNED BY: NWC	VZW PROJECT NO.:
AS SHOWN	DRAWN BY: NWC	2245166
7.6 61161111	CHECKED BY: GRS	MDG LOCATION ID:
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SIDE-BY-SIDE ANTENNA MOUNT BRACKET

1 PER SECTOR, TOTAL OF 3

TYPICAL SIDE-BY-SIDE ANTENNA MOUNT KIT (JMA PART #91900314)

RF02

28.0 LBS EACH

LTE/NR (700/850/5G MHz) REMOTE RADIO HEAD UNIT

STATUS: PROPOSED

15.0"H x 15.0"W x 10.2"D

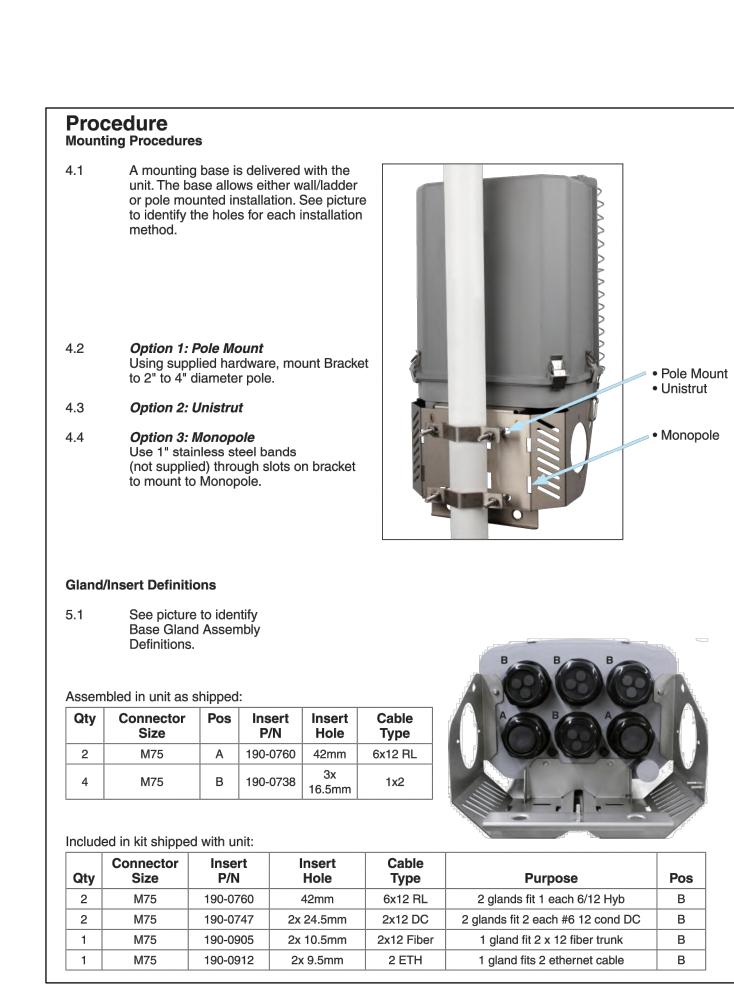
1 PER SECTOR, TOTAL OF 3

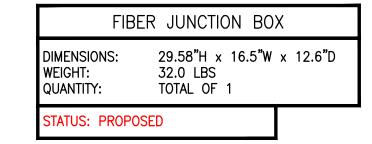
LTE/NR (1900/2100 MHz) REMOTE RADIO HEAD UNIT

STATUS: PROPOSED

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (2) RF02

15.0"H x 15.0"W x 10.0"D 74.7 LBS 1 PER SECTOR, TOTAL OF





TYPICAL FIBER JUNCTION BOX DIMENSIONS, SCHEMATIC AND MOUNTING PROCEDURE 4 RF02 verizon

ARCHITECT/ENGINEER:



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DRAWING TITLE:

ANTENNA DETAILS AND ANCILLARY EQUIPMENT **SPECIFICATIONS**

DRAWING NO:

RF02

SCALE:	DESIGNED BY: NWC	VZW PROJECT NO.:
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710 01101111	CHECKED BY: GRS	MDG LOCATION ID:
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