NOTE TO GENERAL CONTRACTOR:

REFER TO THE PASSING STRUCTURAL ANALYSIS AND CONSIDERING THE EXISTING AND PROPOSED PERFORMED BY NB+C ES (PROJECT 100249). IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.

DESIGN BASED ON RFDS VERSION: 1 DATED: 03/16/21.



SITE NUMBER: 7WAC529A SITE CASCADE: WA33XC951

SPRINT KEEP INSTALLATION, DESIGN 67D5A997DB 6160 (GSM ONLY)

374 MAPLE AVE EAST **VIENNA, VA 22180** TOWN OF VIENNA

SCOPE OF WORK

PROJECT CONSISTS OF: **REMOVING:**

(3) EXISTING ANTENNAS (6) EXISTING RADIOS (3) EXISTING COMBINERS (2) EXISTING CABINETS (1) EXISTING DISTRIBUTION BOX **EXISTING CABLE TRAY**

ALL EXISTING ICE BRIDGES ALL EXISTING COAX/CABLES (1) EXISTING FLAGPOLE

INSTALLING:

(9) PROPOSED ANTENNAS (6) PROPOSED RADIOS (3) PROPOSED 6X24 HYBRID CABLES (2) PROPOSED CABINETS (9) PROPOSED MOUNTING PIPES (9) PROPOSED MOUNTING BRACKETS (1) PROPOSED WORK LIGHT PROPOSED CUSTOM SCREEN WALL PROPOSED HATCH GUARD RAIL

SITE INFORMATION

LATITUDE (NAD 83): LONGITUDE (NAD 83):

38.90676117° -77.25909424°

JURISDICTION: TOWN OF VIENNA C-1A

ZONING:

STRUCTURE HEIGHT:

0382 02 0025 MAP NUMBER: 0.83± ACRES PARCEL AREA:

PARCEL OWNER: 374 MAPLE AVENUE LLC 1410 SPRING HILL RD #500 ADDRESS:

MCLEAN, VA 22102-3056 C022 C/O GRETA TO SI MILLER

GROUND ELEVATION: 380.0' (AMSL) **ROOFTOP** STRUCTURE TYPE:

PROJECT TEAM

APC REALTY AND EQUIPMENT COMPANY, LLC **APPLICANT:**

38.0' (AGL)

6220 SPRINT PARKWAY OVERLAND PARK, KS 66251

(855) 848-3280

PROJECT MANAGEMENT FIRM:

NETWORK BUILDING + CONSULTING, LLC.

6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075

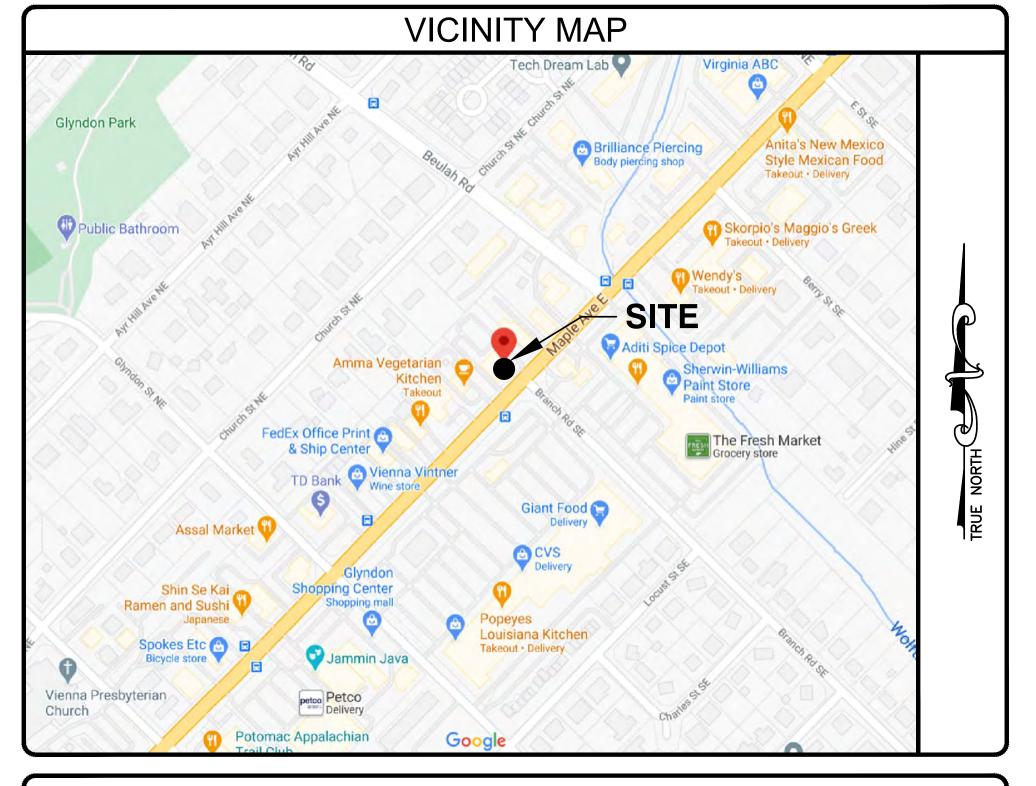
(410) 712-7092

ENGINEERING FIRM: NB+C ENGINEERING SERVICES, LLC.

6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075 (410) 712-7092

MARCO GROTTI

MGROTTI@NBCLLC.COM (410) 712-7092 - EXT 1032



CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2015 VIRGINIA UNIFORM STATEWIDE BUILDING TIA 607 CODE (USBC)
- 2014 NATIONAL ELECTRICAL CODE
- 2015 NFPA 101, LIFE SAFETY CODE
- 2015 STATEWIDE FIRE PREVENTION CODE
- 2015 INTERNATIONAL BUILDING CODE(IBC)
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSI/TIA-222-H

- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST **EDITION**
- TELCORDIA GR-1275
- ANSI/T 311
- FAIRFAX STRUCTURAL DESIGN LOADS AND RELATED
- GROUND SNOW LOAD = 25 PSF BASIC WIND SPEED = 90 MPH
- EARTHQUAKE SPECTRAL RESPONSE ACCELERATIONS SS = 0.16 AND S1 = 0.053

	DRAWING INDEX			
T-1	TITLE SHEET			
GN-1	GENERAL NOTES			
SP-1	SITE PLAN			
C-1	ROOFTOP PLAN			
C-2	EQUIPMENT PLANS			
C-3	ELEVATION			
A-1	ANTENNA SCHEDULE			
A-2	ANTENNA PLANS			
A-3	ANTENNA SPECIFICATIONS & DETAILS			
A-4	EQUIPMENT SPECIFICATIONS & DETAILS			
A-5	PLUMBING DIAGRAM & CABLING DETAIL			
E-1	ELECTRICAL DETAILS			
G-1	GROUNDING DETAILS			
ST-1	ANTENNA MOUNTING DETAILS			
ST-2	CONCEALMENT PLAN VIEW			
ST-3	DUNNAGE PLAN VIEW			
ST-4	SCREEN WALL SECTIONS			
ST-5	SCREEN WALL SECTIONS			
ST-6	SCREEN WALL SECTIONS			
ST-7	SCREEN WALL DETAILS			

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"X34". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

Know what's below.

Call before you dig.



VIRGINIA LAW REQUIRES THREE WORKING DAYS NOTICE PRIOR TO ANY EARTH MOVING ACTIVITIES

APC REALTY AND EQUIPMENT COMPANY, LLC **OVERLAND PARK, KS 66251** (855) 848-3280

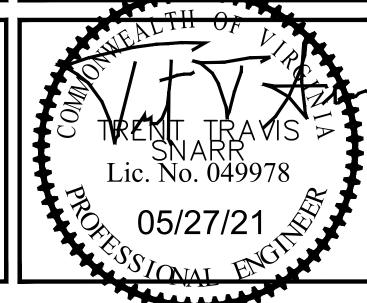
NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300

ELKRIDGE, MD 21075

7WAC529A NTM REPL FOR WA33XC951 374 MAPLE AVE EAST **VIENNA**, **VA** 22180 TOWN OF VIENNA

SITE INFORMATION

REVISIONS REV. PER COMMENTS REV DATE



TRENT TRAVIS SNARR, P.E. VIRGINIA PROFESSIONAL ENGINEER LICENSE #049978

TITLE SHEET

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ELECTRICAL & GROUNDING NOTES

- 1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- 2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- 3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- 4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- 5. ELECTRICAL AND TELCO WIRING AT EXPOSED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC OR RIGID SCHEDULE 80 PVC FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) (AS PERMITTED BY CODE).
- 6. ELECTRICAL AND TELCO WIRING AT CONCEALED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING, ELECTRICAL NONMETALLIC TUBING, OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC AS PERMITTED BY CODE).
- 7. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING, ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS (RGS) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- 8. BURIED CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT (RIGID SCHEDULE 40 PVC): DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT TRAFFIC, ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY TRAFFIC.
- 9. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS IN AREAS WHERE VIBRATION OCCURS AND FLEXIBILITY IS NEEDED.
- 10. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE THHN, THWN-2, OR THIN INSULATION.
- 11. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- 12. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- 13. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 14. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTING PROTECTION SHALL BE DONE IN ACCORDANCE WITH T-MOBILE CELL SITE GROUNDING STANDARDS.
- 15. GROUND CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- 16. INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- 17. ALL POWER AND GROUND CONNECTIONS TO BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY HARGER (OR APPROVED EQUAL) RATED FOR OPERATION AT NO LESS THAN 75°C OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- 18. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- 19. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- 20. APPLY OXIDE INHIBITING COMPOUND TO ALL MECHANICAL GROUND CONNECTIONS.
- 21. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- 22. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMNS MINIMUM RESISTANCE REQUIRED.
- 23. CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
- 24. THE T-MOBILE ELECTRICAL EQUIPMENT INCLUDING PANEL, SWITCH GEAR AND DISCONNECT ARE TO BE LABELED WITH ENGRAVED BAKELITE LABELS.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES. UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- 5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
- 9. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO
- 10. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA,
- 11. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS
- 12. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD
- 13. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- 14. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- 15. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- 16. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS
- 18. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.

STRUCTURAL NOTES

REQUIREMENTS.

1. THE STRUCTURAL STEEL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANCHOR BOLT LOCATIONS, ELEVATION OF TOP OF CONCRETE AND BEARING PLATES, ALIGNMENT ETC. PRIOR TO START OF STEEL ERECTION.

2. THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS SHALL GOVERN:

A. AISC - "ALLOWABLE STRESS DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". B. AISC - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

C. AWS - "D1.1 STRUCTURAL WELDING CODE - STEEL".

3. MATERIAL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE FOLLOWING ASTM **SPECIFICATIONS**

STRUCTURAL WIDE FLANGE & M SHAPES A992 OR A572 FY = 50KSI

OTHER STRUCTURAL SHAPES AND PLATES A36, FY = 36 KSI STRUCTURAL TUBING A500, GRADE B

FY = 46 KSI

HIGH STRENGTH BOLTS A325 THREADED RODS A354, GRADE BC ANCHOR BOLTS A325 OR A354 BC PIPE (HANDRAIL) SCH 40 PIPE

4. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER AISC

- 5. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED. ALL HOLES IN BEARING PLATES SHALL BE DRILLED.
- 6. ALL STEEL TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.
- 7. EPOXY ANCHORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 8. ALL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD PER AISC SPECIFICATIONS USING STANDARD HOLES.
- 9. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND FIT PRIOR TO FABRICATION.



APC REALTY AND EQUIPMENT COMPANY, LLC 6220 SPRINT PARKWAY OVERLAND PARK, KS 66251 (855) 848-3280

TOTALLY COMMITTED **NB+C ENGINEERING SERVICES, LLC.**

6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075

7WAC529A NTM REPL FOR WA33XC951 374 MAPLE AVE EAST **VIENNA**, **VA** 22180 TOWN OF VIENNA

REVISIONS DESIGN 05/27/21 REV. PER COMMENTS REV DATE

SITE

TRENT TRAVIS SNARR, P.E. VIRGINIA PROFESSIONAL ENGINEER LICENSE #049978

GENERAL NOTES

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8. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.

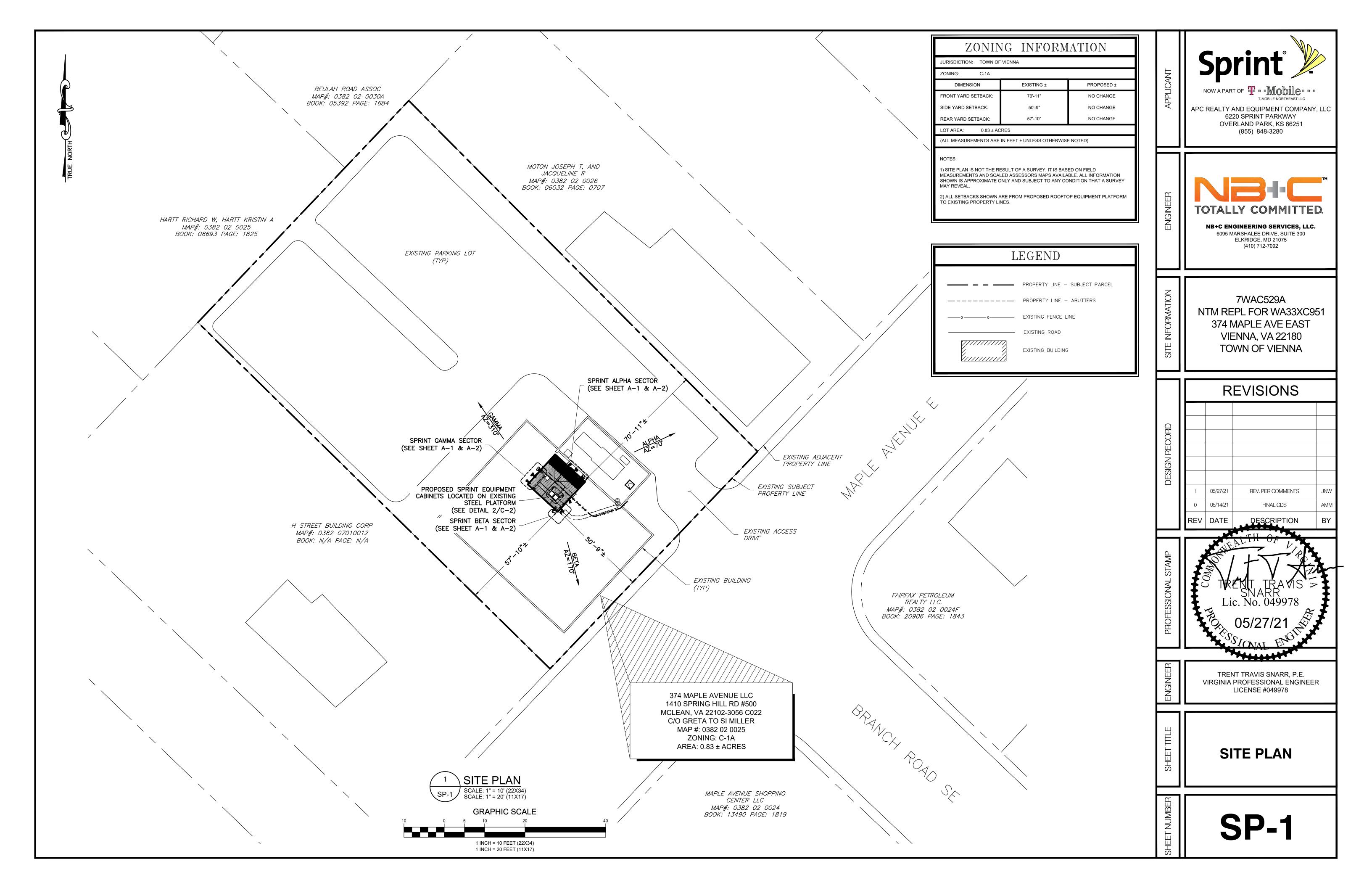
EXCAVATING.

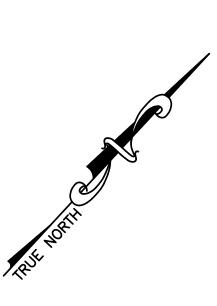
CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.

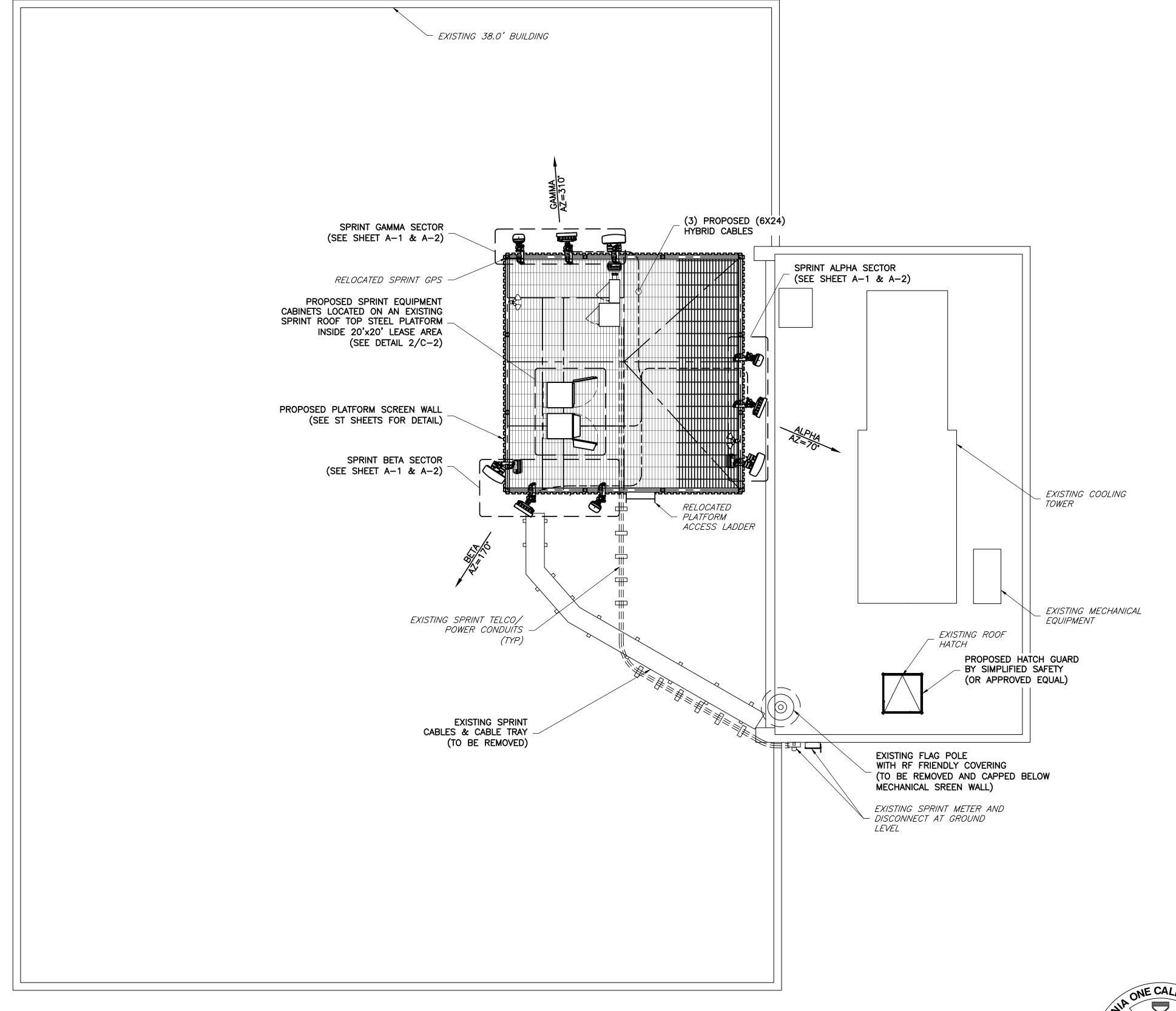
APPROXIMATELY 2 TIMES PER MONTH.

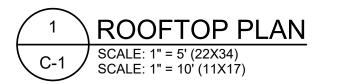
AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.

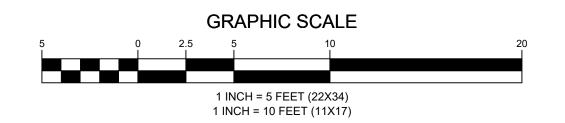
17. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.



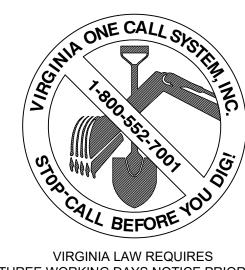












VIRGINIA LAW REQUIRES THREE WORKING DAYS NOTICE PRIOR TO ANY EARTH MOVING ACTIVITIES Sprint

NOW A PART OF TO MODILE TO THE APC REALTY AND EQUIPMENT COMPANY, LLC 6220 SPRINT PARKWAY

OVERLAND PARK, KS 66251 (855) 848-3280

TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.

ENGINEER

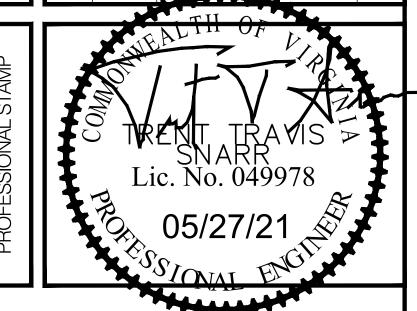
SITE INFORMATION

NB+C ENGINEERING SERVICES, LLC 6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075 (410) 712-7092

7WAC529A NTM REPL FOR WA33XC951 374 MAPLE AVE EAST VIENNA, VA 22180 TOWN OF VIENNA

REVISIONS

1 05/27/21 REV. PER COMMENTS JNW
0 05/14/21 FINAL CDS AMM
REV DATE DESCRIPTION BY



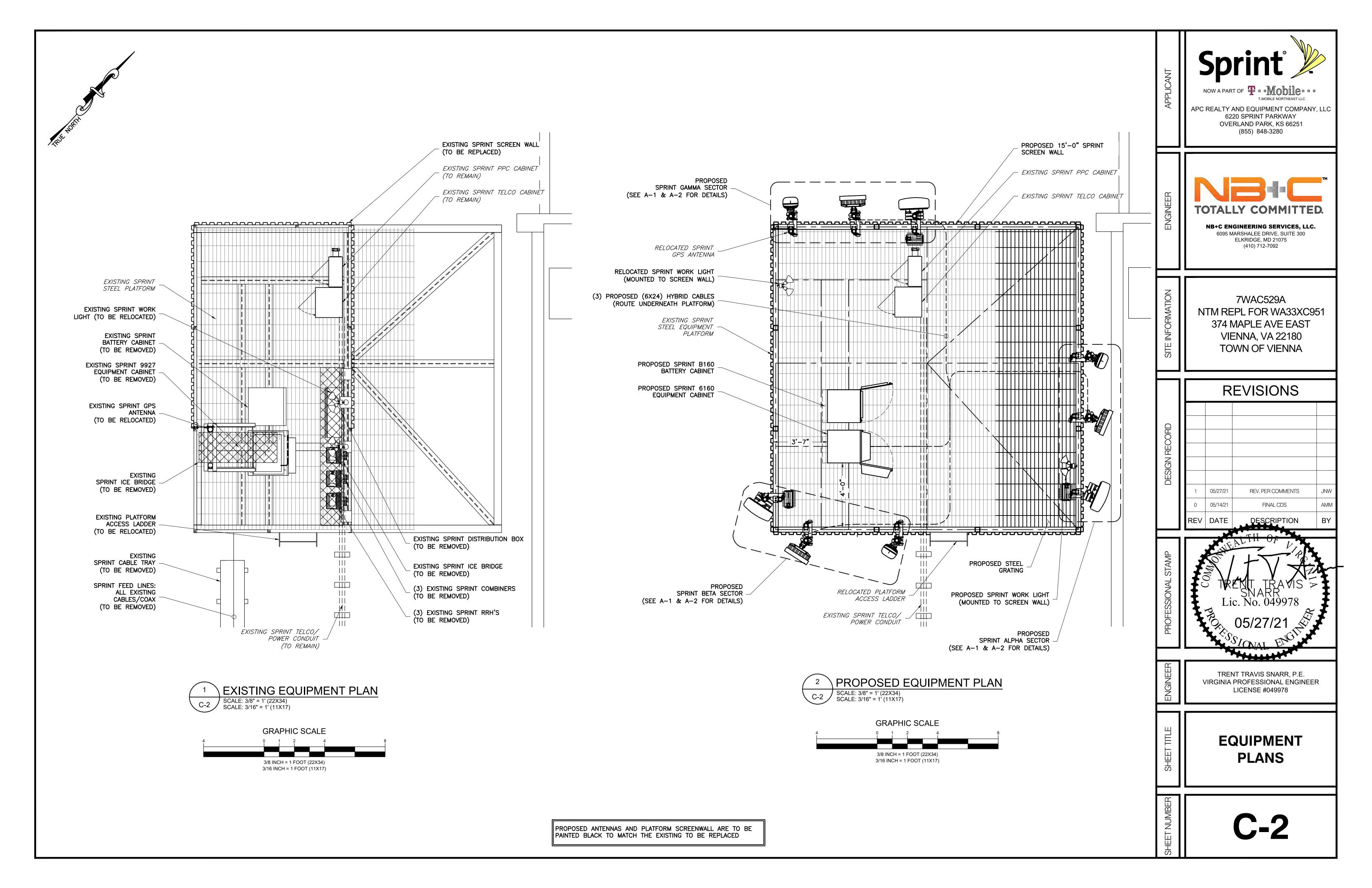
TRENT TRAVIS SNARR, P.E.
VIRGINIA PROFESSIONAL ENGINEER
LICENSE #049978

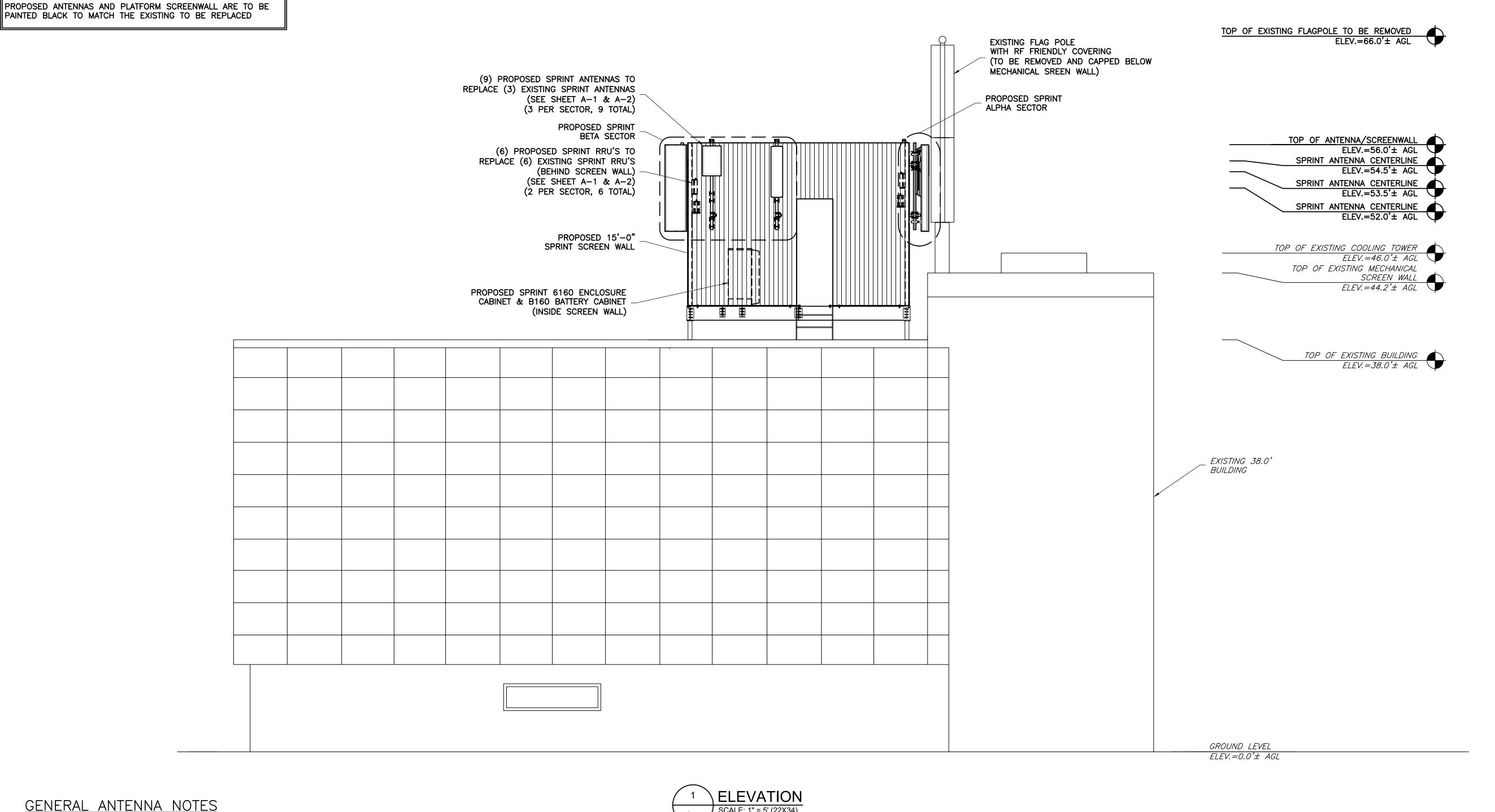
ROOFTOP PLAN

C-1

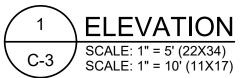
SHEET

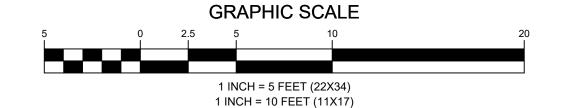
PROPOSED ANTENNAS AND PLATFORM SCREENWALL ARE TO BE PAINTED BLACK TO MATCH THE EXISTING TO BE REPLACED





- 1. ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR IS TO COORDINATE AND VERIFY THE PROPOSED DOWNTILTS WITH SPRINT MANAGER PRIOR TO CONSTRUCTION.
- 2. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'. (EXISTING
- 3. CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH.
- 4. CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- 5. ALL CABLE LENGTHS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 6. COLOR TAPE MARKINGS MUST BE 3/4" WIDE AND UV RESISTANT, SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE.
- 7. CONTRACTOR SHALL COORDINATE COLOR CODINGS IN THE FIELD WITH SPRINT REPRESENTATIVE.
- 8. PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE, A STRUCTURAL & MOUNT ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES. THE OWNER'S AGENT SHALL FURNISH A CERTIFICATION LETTER SEALED BY A REGISTERED PROFESSIONAL ENGINEER STATING THAT THIS STRUCTURAL ANALYSIS WAS PREPARED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.







TOTALLY COMMITTED. NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300

ELKRIDGE, MD 21075

ENGINEER

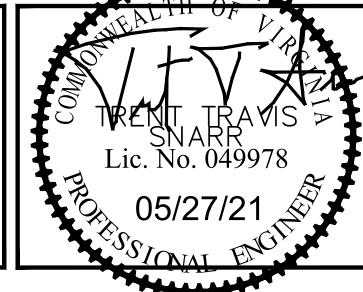
SITE INFOR

OVERLAND PARK, KS 66251 (855) 848-3280

7WAC529A NTM REPL FOR WA33XC951 374 MAPLE AVE EAST VIENNA, VA 22180

TOWN OF VIENNA

REVISIONS DESIGN RECORD 05/27/21 REV. PER COMMENTS REV DATE



TRENT TRAVIS SNARR, P.E. VIRGINIA PROFESSIONAL ENGINEER LICENSE #049978

ELEVATION က်

HEET NUMBER

	ANTENNA SCHEDULE											
SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA DIMENSIONS (HxWxD)	RAD CENTER	AZIMUTH	ELEC DOWNTILT	MECH DOWNTILT	RRU QUANTITY & MODEL	TMA/DIPLEXER QUANTITY & MODEL	CABLE QUANTITY & TYPE	CABLE LENGTH
A1	PROPOSED	ERICSSON	AIR32DB B2A/B66A	56.60"x12.90"x8.70"	53.50'	70°	2*/2*/2*/2*	0•	-	-		
A2	3 PROPOSED RFS APXVAALL24_43-U-NA20		33.10"x20.60"x8.30"	54.50'	70°	2*/2*	0•	_	_	(1) PROPOSED 6x24 HYBRID CABLE	30.00'	
A3			95.90"x24.00"x8.50"	(1) PROPOSED 4415 B25		_						
B1	PROPOSED	ERICSSON	AIR32DB B2A/B66A	56.60"x12.90"x8.70"	53.50'	170°	2./3./3./3.	0.	<i>_</i>	<u>-</u>		<i></i>
B2	PROPOSED	ERICSSON AIR6449_B41		33.10"x20.60"x8.30"	54.50'	170°	2°/2°	0•	-	-	(1) PROPOSED 6x24 HYBRID CABLE	25.00'
B3			95.90"x24.00"x8.50"	52.00'	170°	3./3./5./5.	0,	(1) PROPOSED 4449 B71+B85 (1) PROPOSED 4415 B25	_			
C1	PROPOSED	ERICSSON	AIR32DB B2A/B66A	56.60"x12.90"x8.70"	53.50'	310°	2./3./3./3.	0.	<i>-</i>	<u>-</u>		
C2	PROPOSED	ERICSSON	AIR6449_B41	33.10"x20.60"x8.30"	54.50'	310°	2*/2*	0.	_	_	(1) PROPOSED 6x24 HYBRID CABLE	22.00'
C3	PROPOSED	RFS	APXVAALL24_43-U-NA20	95.90"x24.00"x8.50"	52.00'	310°	3°/3°/2°/2°	0•	(1) PROPOSED 4449 B71+B85 (1) PROPOSED 4415 B25	_		

NOTES:
1. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

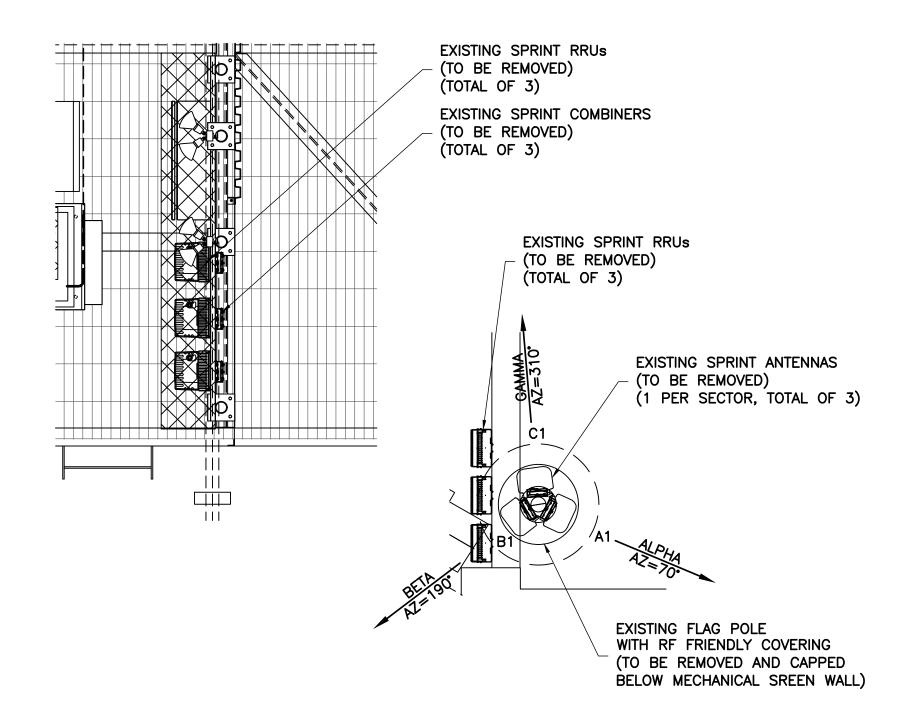


PROPOSED ANTENNAS AND PLATFORM SCREENWALL ARE TO BE PAINTED BLACK TO MATCH THE EXISTING TO BE REPLACED

ALL EXISTING SPRINT ANTENNAS, RADIOS, TMA'S, DIPLEXERS, AND CABLES WILL BE REMOVED FROM THE SITE.

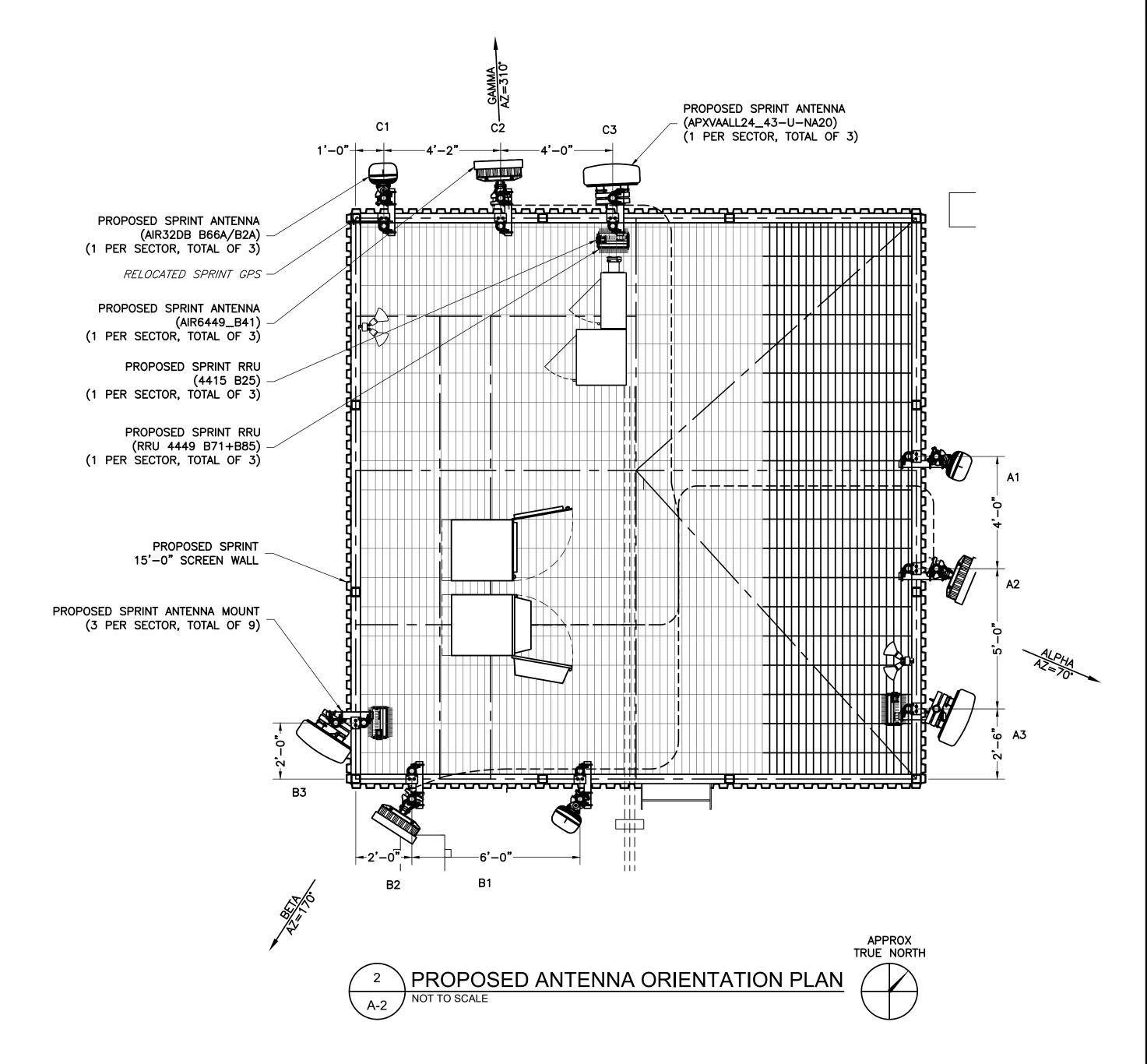
(MICROWAVE EQUIPMENT IS EXCLUDED FROM THIS REQUIREMENT)

APC REALTY AND EQUIPMENT COMPANY, LLC 6220 SPRINT PARKWAY OVERLAND PARK, KS 66251 (855) 848-3280 ENGINEER TOTALLY COMMITTED. NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075 (410) 712-7092 SITE INFORMATION 7WAC529A NTM REPL FOR WA33XC951 374 MAPLE AVE EAST VIENNA, VA 22180 TOWN OF VIENNA **REVISIONS** DESIGN RECORD 05/27/21 REV. PER COMMENTS REV DATE TRENT TRAVIS SNARR, P.E. VIRGINIA PROFESSIONAL ENGINEER LICENSE #049978 **ANTENNA** SCHEDULE



EXISTING ANTENNA ORIENTATION PLAN

NOT TO SCALE



PROPOSED ANTENNAS AND PLATFORM SCREENWALL ARE TO BE PAINTED BLACK TO MATCH THE EXISTING TO BE REPLACED

ALL EXISTING SPRINT ANTENNAS, RADIOS, TMA'S, DIPLEXERS, AND CABLES WILL BE REMOVED FROM THE SITE.

(MICROWAVE EQUIPMENT IS EXCLUDED FROM THIS REQUIREMENT)

Sprint

NOW A PART OF THOUSE NORTHEAST LLC

APC REALTY AND EQUIPMENT COMPANY, LLC 6220 SPRINT PARKWAY OVERLAND PARK, KS 66251 (855) 848-3280

TOTALLY COMMITTED.

ENGINEER

SITE INFORMATION

NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075 (410) 712-7092

7WAC529A NTM REPL FOR WA33XC951 374 MAPLE AVE EAST VIENNA, VA 22180 TOWN OF VIENNA

REVISIONS

1 05/27/21 REV. PER COMMENTS JNM
0 05/14/21 FINAL CDS AMM
REV DATE DESCRIPTION BY

TRENT TRAVIS Lic. No. 049978

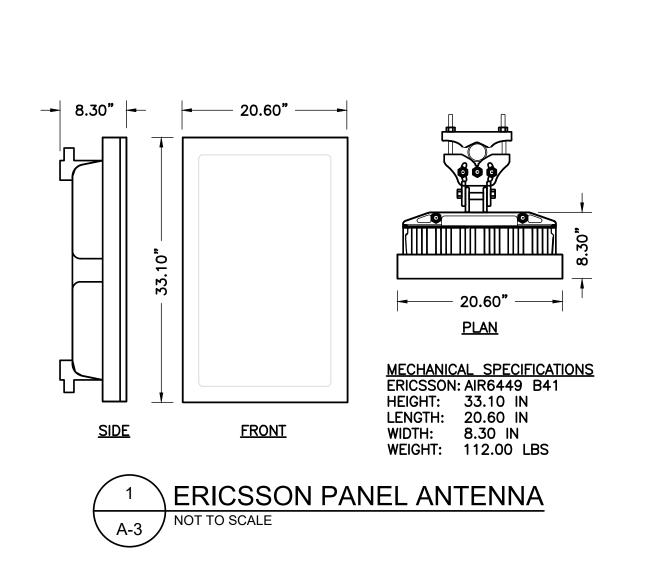
05/27/21

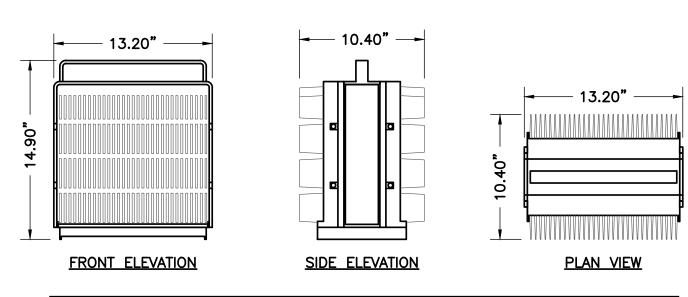
05/27/21

TRENT TRAVIS SNARR, P.E.
VIRGINIA PROFESSIONAL ENGINEER
LICENSE #049978

ANTENNA ORIENTATION PLANS

A-2

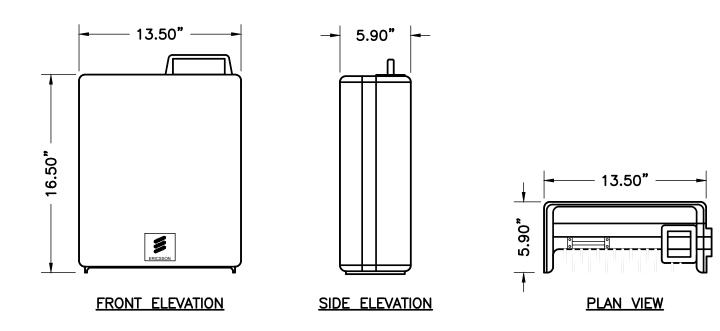




SIZE AND WEIGHT TABLE							
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET			
ERICSSON 4449 B71+B85	14.90"	13.20"	10.40"	74.00 LBS			

NOTE:
DO NOT PAINT THE RRU. RRU SOLAR SHIELD CAN BE PAINTED PER MANUFACTURER'S METHOD OF PROCEDURE.

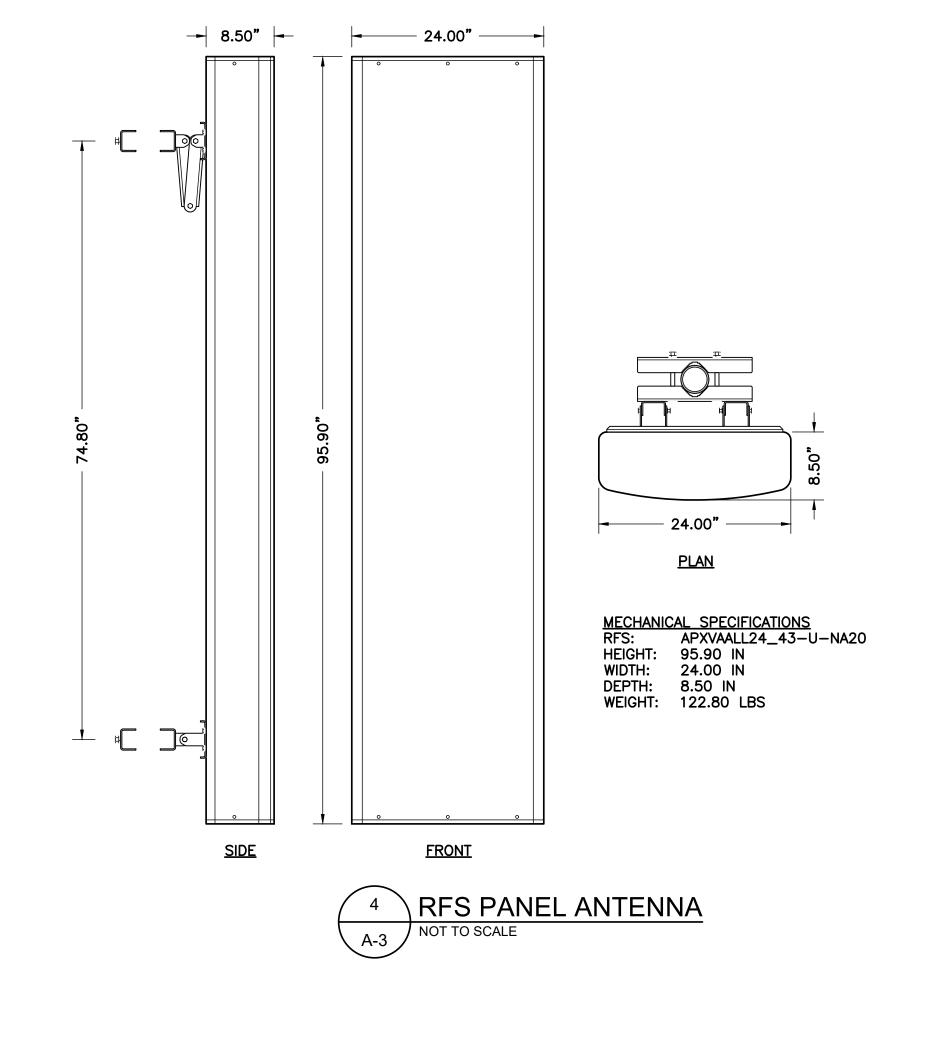


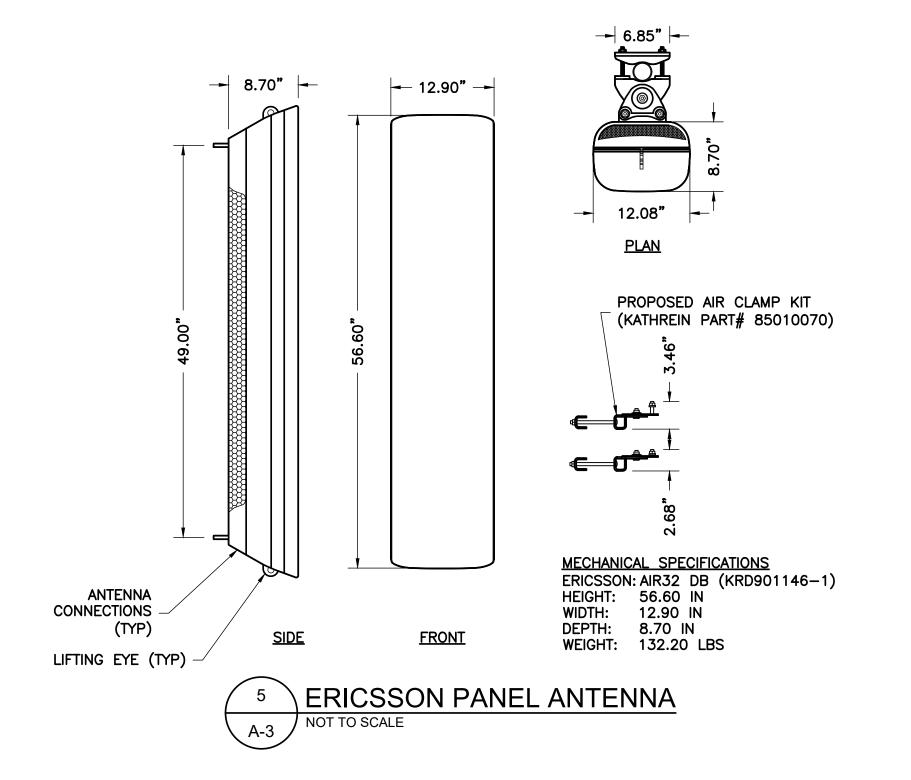


SIZE AND WEIGHT TABLE						
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET		
ERICSSON 4415	16.50"	13.50"	5.90"	46.00 LBS		

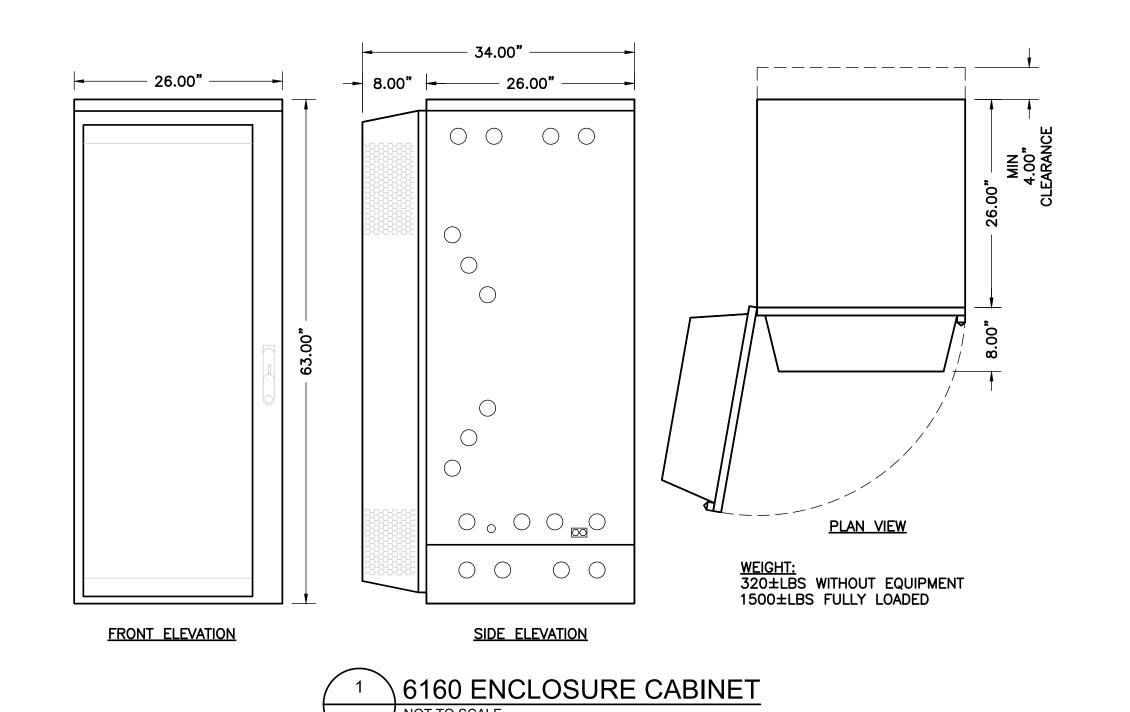
NOTE:
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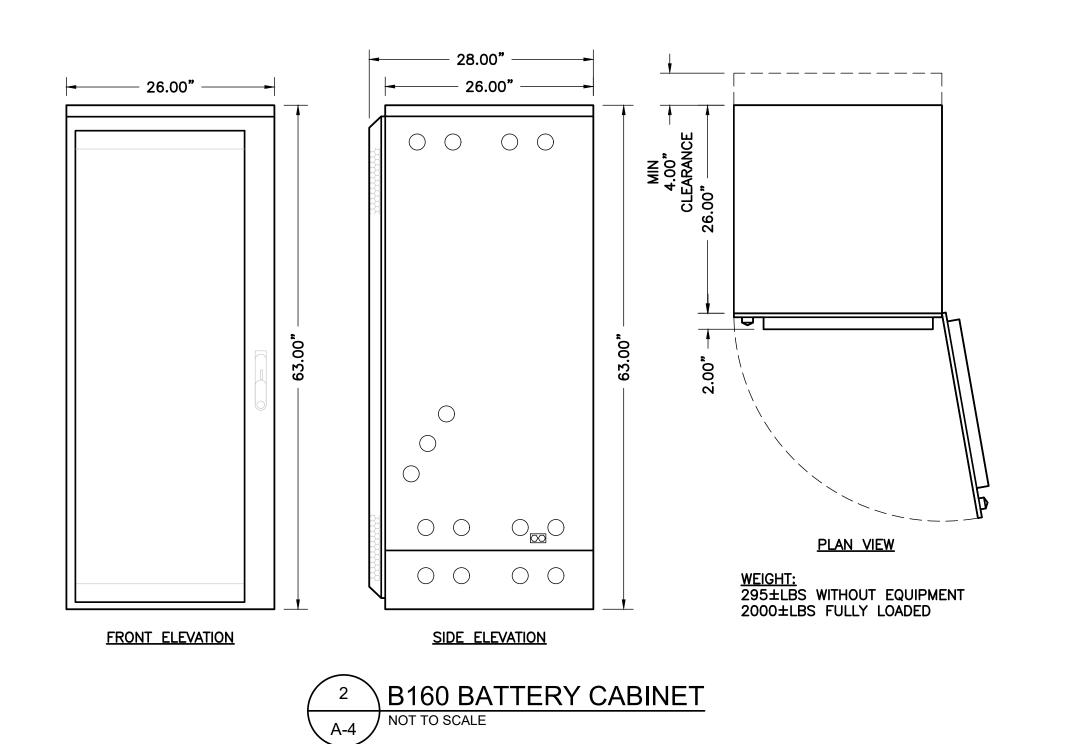






NOW A PART OF T-MODILE IN T-MOBILE NORTHEAST LLC APC REALTY AND EQUIPMENT COMPANY, LLC 6220 SPRINT PARKWAY OVERLAND PARK, KS 66251 (855) 848-3280 ENGINEER TOTALLY COMMITTED. NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075 (410) 712-7092 SITE INFORMATION 7WAC529A NTM REPL FOR WA33XC951 374 MAPLE AVE EAST VIENNA, VA 22180 TOWN OF VIENNA **REVISIONS** DESIGN RECORD 05/27/21 REV. PER COMMENTS REV DATE TRENT TRAVIS SNARR, P.E. VIRGINIA PROFESSIONAL ENGINEER LICENSE #049978 **ANTENNA SPECIFICATIONS** & DETAILS 오 SHEET NUMBER **A-3**





APC REALTY AND EQUIPMENT COMPANY, LLC 6220 SPRINT PARKWAY OVERLAND PARK, KS 66251 (855) 848-3280 NB+C ENGINEERING SERVICES, LLC. 6095 MARSHALEE DRIVE, SUITE 300 ELKRIDGE, MD 21075 (410) 712-7092 SITE INFORMATION 7WAC529A NTM REPL FOR WA33XC951 374 MAPLE AVE EAST VIENNA, VA 22180 TOWN OF VIENNA **REVISIONS** DESIGN RECORD REV. PER COMMENTS REV DATE TRENT TRAVIS SNARR, P.E. VIRGINIA PROFESSIONAL ENGINEER LICENSE #049978 **EQUIPMENT SPECIFICATIONS** & DETAILS Ω

