

For Office Use: Filing Date: _____ Case Number: SR- _____ Zoning District _____

This APPLICATION is for: Dish Tower Antenna

PROPERTY ADDRESS AND TAX MAP NUMBER:

As shown on the current City of Syracuse Tax Assessment Roll available at syrgov.net, or 315-448-8280.

960 Salt Springs Road, Syracuse, NY 13224 Tax ID 038.-16-31.0

PROPERTY OWNER:

Dave Hubbard, Facilities Mgr.

Name: Elmcrest Children's Center Phone: 315-446-6250

Mailing Address:

960 Salt Springs Road, Syracuse, NY 13224 (Elmcrest Children's Center)
T-Mobile Northeast, LLC is Lessee -103 monarch Drive, Liverpool, NY 13088

REPRESENTATIVE:

Attorney, Architect, Contractor, Other: and Authorized Agent for T-Mobile Northeast, LLC

Name: Network Building and Consulting Engineering/Architect - LIC#091974 Phone: 717-947-0149

Mailing Address:

1777 entry Pkwy W, Veva 17, Suite 400, Blue Bell PA 19422

OTHERS INVOLVED (if applicable):

Lessee, Contract Purchaser, Other:

Name: T-Mobile Northeast, LLC Phone: 717-947-0149 Chris McDonough Authorized Agent

Mailing Address:

103 Monarch Drive, Liverpool, NY 13088

STRUCTURE INFORMATION:

MAXIMUM HEIGHT from ground level to top of structure: 48 feet - current height 47' 6"

DISTANCE from structure to front property line: Existing facility - no change

DISTANCE to closest side property line existing facility - no change

DIAMETER of structure (if dish) N/A

HEIGHT from ground to bottom of structure (if dish) N/A

Chris McDonough - Authorized Agent on behalf of T-Mobile [Signature]


DECLARATION

I understand that false statements made herein are punishable as a Class A Misdemeanor, pursuant to section 210.45 of the Penal Law of the State of New York. I declare that, subject to the penalties of perjury, any statements made on this application and any attachments are the truth and to the best of my knowledge correct.

I also understand that any false statements and/or attachments presented knowingly in connection with this application will be considered null and void.

CURRENT PROPERTY OWNER SIGNATURE

As listed on the City of Syracuse Tax Assessment Roll. If not listed as the owner on the current rolls, please include a proof of ownership, for example, a copy of the deed. Attorney's signing on behalf of the owner must include a one page letter describing the legal representative arrangement. Architects, engineers, contractors, tenants, etc. cannot sign on behalf of the property owner. If property owner is a Corporation or an Organization, then the person signing must provide verification they are a member of such, and can sign on the owners' behalf.


 _____ 11/16/20
 CURRENT PROPERTY OWNER SIGNATURE DATE
 JOSEPH J. GAGLIA, Executive Director

 Please legibly PRINT SIGNATURE NAME and TITLE

REQUIRED SUBMITTALS

- APPLICATION:** Completely filled out and signed by owner of property.
- PROPERTY SURVEY:** One full sized, to scale copy of a property survey drawn and stamped by a licensed land surveyor.
- SITE PLAN:** Showing proposed exact location of the proposed tower, dish, or antenna.
- TOWER AND ANTENNA SUPPORT STRUCTURE SITE PLANS** (not including satellite dish antennas and antennas on buildings): drawings, calculations, and other documentation, signed and sealed by licensed engineers, showing the location and dimensions of all improvements, including:
 - Topography
 - Radio frequency coverage
 - Tower height requirements
 - Setbacks
 - Fencing
 - Landscaping
 - Additional information necessary to assess the nature of the proposal and its potential impacts, as maybe determined by the City Planning Commission.
- PHOTO SIMULATION:** Showing before and after photos of the proposed exact location of proposed tower, dish, or antenna.

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information			
T-Mobile Anchor Project - 3ONS079B - Elmcrest Children's Center			
Name of Action or Project: 3ONS07BA - Anchor			
Project Location (describe, and attach a location map): 960 Salt Springs Road. Syracuse NY 13205 (rooftop - unmanned wireless antenna facility) - enclosed maps			
Brief Description of Proposed Action: Modification of an existing wireless antenna facility. Add one (2) antennas per sector, swapping (1) antenna per sector, Within existing lease area, on existing concrete pad, add (1) battery cabinet and one (1) equipment cabinet. Add additional hybrid fiber optic cabling. Per tax card, total parcel area is 1331.41x1409.98 - all work will be within T-Mobile lease area which is less than 0.01 acre)			
Name of Applicant or Sponsor: T-Mobile Northeast, LLC c/o NB+C (authorized agent - Chris McDonough)		Telephone: 717-947-0149 E-Mail: cmcdonough	
Address: 103 Monarch Drive			
City/PO: Liverpool		State: NY	Zip Code: 13205
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.		NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: City of Syracuse Building and Zoning Permit		NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
3. a. Total acreage of the site of the proposed action?		less than 1 acres	
b. Total acreage to be physically disturbed?		_____ acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		less than 1 acres	
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. <input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input checked="" type="checkbox"/> Other(Specify): Wireless Antenna Facility <input type="checkbox"/> Parkland			

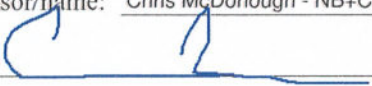
5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?	NO	YES	
If Yes, identify: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Are public transportation services available at or near the site of the proposed action?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements?	NO	YES	
If the proposed action will exceed requirements, describe design features and technologies:			
Existing wireless antenna facility modification involves installation of battery cabinet - no significant increase in electricity usage _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply?	NO	YES	
If No, describe method for providing potable water: _____			
This is an existing unmanned wireless antenna facility - no potable water needed _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities?	NO	YES	
If No, describe method for providing wastewater treatment: _____			
This is an existing unmanned wireless antenna facility - no waste water utility needed _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	NO	YES	
Please see enclosed Historic Resource	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____			
Not applicable _____ _____			

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
<input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input checked="" type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Will storm water discharges flow to adjacent properties?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

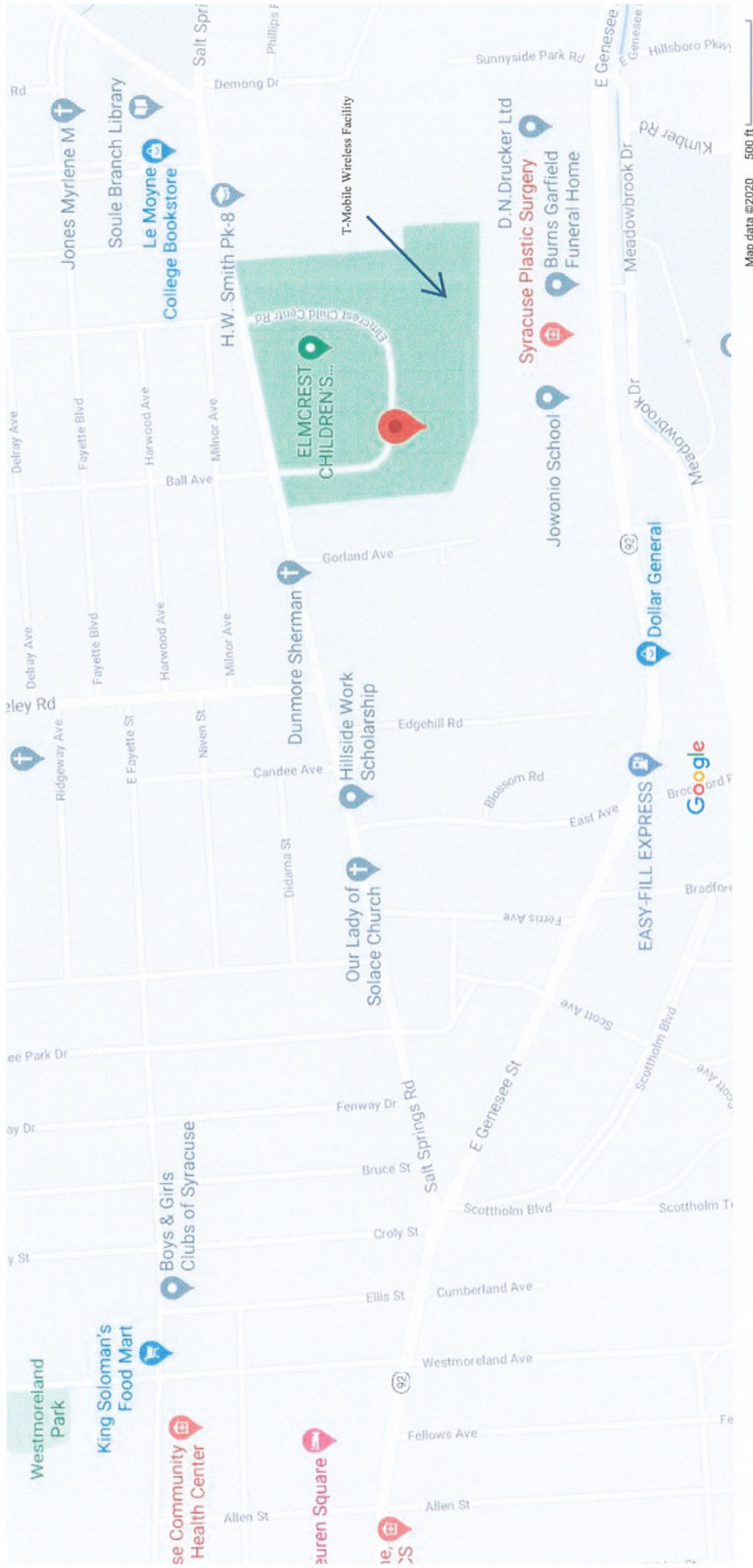
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment:	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>

19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>

20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe:	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE		
Applicant/sponsor/name: <u>Chris McDonough - NB+C authorized agent for T-Mobile</u> Date: <u>11/16/20</u>		
Signature: <u></u> Title: <u>Site Acquisition Specialist</u>		

Google Maps 43°02'42.0"N 76°05'57.2"W
30NS079B Anchor



NOTE TO GENERAL CONTRACTOR:
NO WORK IS TO BE PERFORMED ON THIS SITE WITHOUT REVIEW OF THE APPROVED STRUCTURAL ANALYSIS. IF ANY DISCREPANCIES ARE FOUND, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. AT NO TIME WILL ANY ADDITIONAL ANTENNAS BE INSTALLED WITHOUT WRITTEN CONSENT FROM TOWER/BUILDING ENGINEER.



T-MOBILE NORTHEAST LLC

SITE NUMBER: 3ONS079B

SITE NAME: EAST_GENESEE

T-MOBILE ANCHOR INSTALLATION, DESIGN 67D5A997DB HYBRID

960 SALT SPRING ROAD
SYRACUSE, NEW YORK 13224
CITY OF SYRACUSE
ONONDAGA COUNTY

ENGINEERING FIRM

TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

APPLICANT

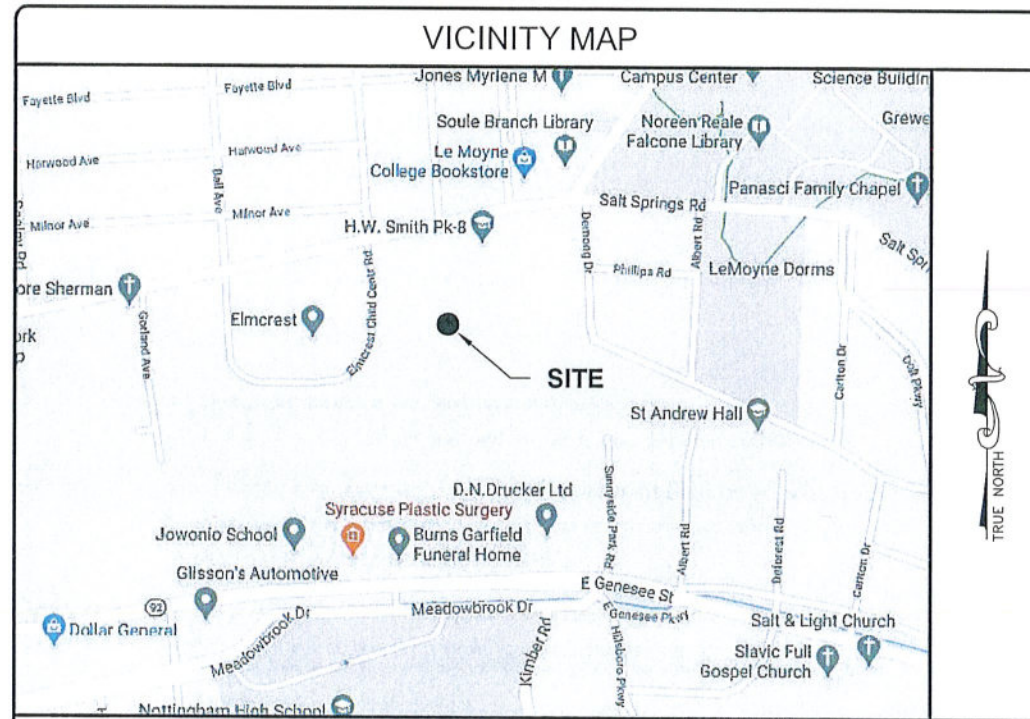
T-MOBILE NORTHEAST LLC

103 MONARCH DRIVE
LIVERPOOL, NY 13088
OFFICE: (315) 265-1882

SITE INFORMATION

3ONS079B
EAST_GENESEE
960 SALT SPRINGS ROAD
SYRACUSE, NY 13224
CITY OF SYRACUSE
ONONDAGA COUNTY

SITE INFORMATION	
LATITUDE (NAD 83):	43.04467908°
LONGITUDE (NAD 83):	-76.09659070°
GROUND ELEVATION:	609.00 FEET (AMSL)
CONSTRUCTION TYPE:	IIB
USE GROUP:	U
TAX ACCOUNT NUMBER:	311500-380-000-0016-031-000-000
PARCEL AREA:	43.10± ACRES
PARCEL OWNER:	ELMCREST CHILDREN CENTER 960 SALT SPRING ROAD SYRACUSE, NEW YORK 13224
STRUCTURE TYPE:	ROOFTOP
STRUCTURE HEIGHT:	38.00'



SCOPE OF WORK	
PROJECT CONSISTS OF INSTALLING (1) PROPOSED EQUIPMENT CABINET, (1) PROPOSED BATTERY CABINET, (9) PROPOSED ANTENNAS, (6) PROPOSED RRUs, (1) 200A PPC, (4) PROPOSED 1-1/4"Ø (6X12) HYBRID CABLES AND (1) PROPOSED SLED MOUNT TO AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.	PROJECT CONSISTS OF REMOVING (1) EXISTING 3518 CABINET, (1) EXISTING 100A DISTRIBUTION PANEL, (3) EXISTING ANTENNAS, (3) EXISTING TMA, (3) EXISTING 7/8" COAX, (1) EXISTING HYBRID, AND (1) EXISTING SLED FROM AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.

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.	
<ul style="list-style-type: none"> 2020 BUILDING CODE OF NEW YORK STATE 2017 NATIONAL ELECTRICAL CODE NFPA 101, LIFE SAFETY CODE 2020 NEW YORK STATE FIRE CODE AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION 13TH EDITION 	<ul style="list-style-type: none"> ANSI/TIA-222-H (NY EDITION) TIA 607 INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81 IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION TELECORDIA GR-1275 ANSI/311

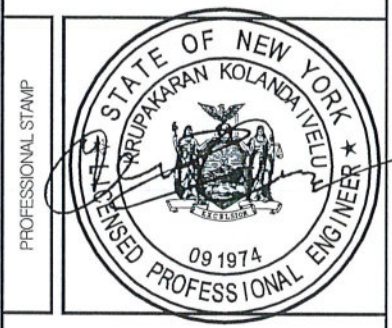
DRAWING INDEX	
T-1	TITLE SHEET
GN-1	GENERAL NOTES
C-1	ROOFTOP PLAN
C-2	EQUIPMENT PLANS
C-3	ELEVATION
A-1	ANTENNA SCHEDULE
A-2	ANTENNA ORIENTATION PLANS
A-3	ANTENNA SPECIFICATIONS & DETAILS
A-4	SLED & GATE DETAILS
A-5	EQUIPMENT SPECIFICATIONS & DETAILS
A-6	CABLING DETAIL & RF PLUMBING DIAGRAM
E-1	ELECTRICAL DETAILS
G-1	GROUNDING DETAILS

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE SCALED AT FULL SIZE (22"x34") AND MAY NOT SCALE WHEN PRINTED AT OTHER SIZES. 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.

PROJECT TEAM	
APPLICANT:	T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088 OFFICE: (315) 265-1882
PROJECT MANAGEMENT FIRM:	NETWORK BUILDING + CONSULTING, LLC. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122
ENGINEERING FIRM:	NB+C ENGINEERING SERVICES, LLC. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122

REVISIONS			
REV	DATE	DESCRIPTION	BY
1	11/12/20	ISSUED FOR PERMITTING	CMA
0	10/26/20	PRELIMINARY	AP



ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

ELECTRICAL & GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- 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).
- 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).
- 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.
- 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.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS IN AREAS WHERE VIBRATION OCCURS AND FLEXIBILITY IS NEEDED.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE THHN, THWN-2, OR THIN INSULATION.
- 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.
- 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.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 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.
- GROUND CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- 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.
- 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.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL MECHANICAL GROUND CONNECTIONS.
- 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.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
- THE T-MOBILE ELECTRICAL EQUIPMENT INCLUDING PANEL, SWITCH GEAR AND DISCONNECT ARE TO BE LABELED WITH ENGRAVED BAKELITE LABELS.

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
- ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
- IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
- PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
- THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.

STRUCTURAL NOTES

- 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.
- 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".
- 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
A500, GRADE B	STRUCTURAL TUBING
	FY = 46 KSI
HIGH STRENGTH BOLTS	A325
THREADED RODS	A354, GRADE BC
ANCHOR BOLTS	A325 OR A354 BC
PIPE (HANDRAIL)	SCH 40 PIPE
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER AISC REQUIREMENTS.
- 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.
- ALL STEEL TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.
- EPOXY ANCHORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- ALL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD PER AISC SPECIFICATIONS USING STANDARD HOLES.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND FIT PRIOR TO FABRICATION.



NB+C ENGINEERING SERVICES, LLC.
 1777 SENTRY PARKWAY WEST
 VEVA 17, SUITE 400
 BLUE BELL, PA 19422
 (267) 480-0122



T-MOBILE NORTHEAST LLC
 103 MONARCH DRIVE
 LIVERPOOL, NY 13088
 OFFICE: (315) 265-1882

30NS079B
 EAST_GENESE
 960 SALT SPRINGS ROAD
 SYRACUSE, NY 13224
 CITY OF SYRACUSE
 ONONDAGA COUNTY

REVISIONS

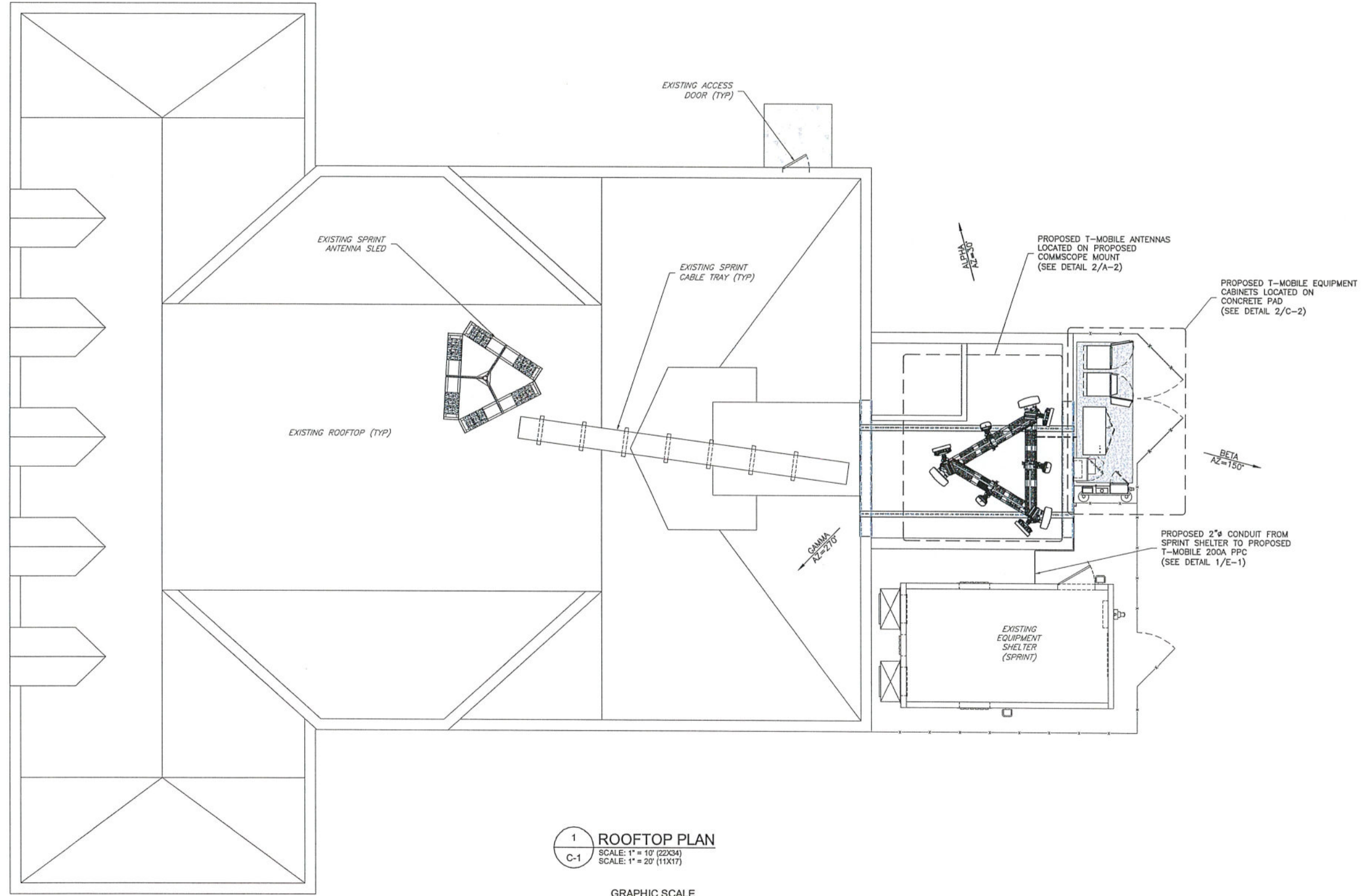
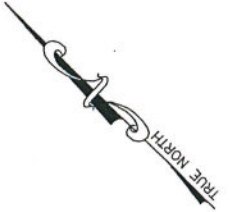
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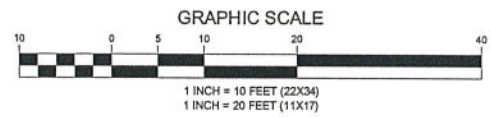
KRUPAKARAN KOLANDAIVELU, P.E.
 STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 LICENSE #091974

GENERAL NOTES

GN-1



1 ROOFTOP PLAN
 SCALE: 1" = 10' (22X34)
 SCALE: 1" = 20' (11X17)



ENGINEERING FIRM

NB+C
 TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
 1777 SENTRY PARKWAY WEST
 VEVA 17, SUITE 400
 BLUE BELL, PA 19422
 (267) 460-0122

APPLICANT

T-Mobile
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SITE INFORMATION

3ONS079B
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 960 SALT SPRINGS ROAD
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PROFESSIONAL STAMP

ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
 STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 LICENSE #091974

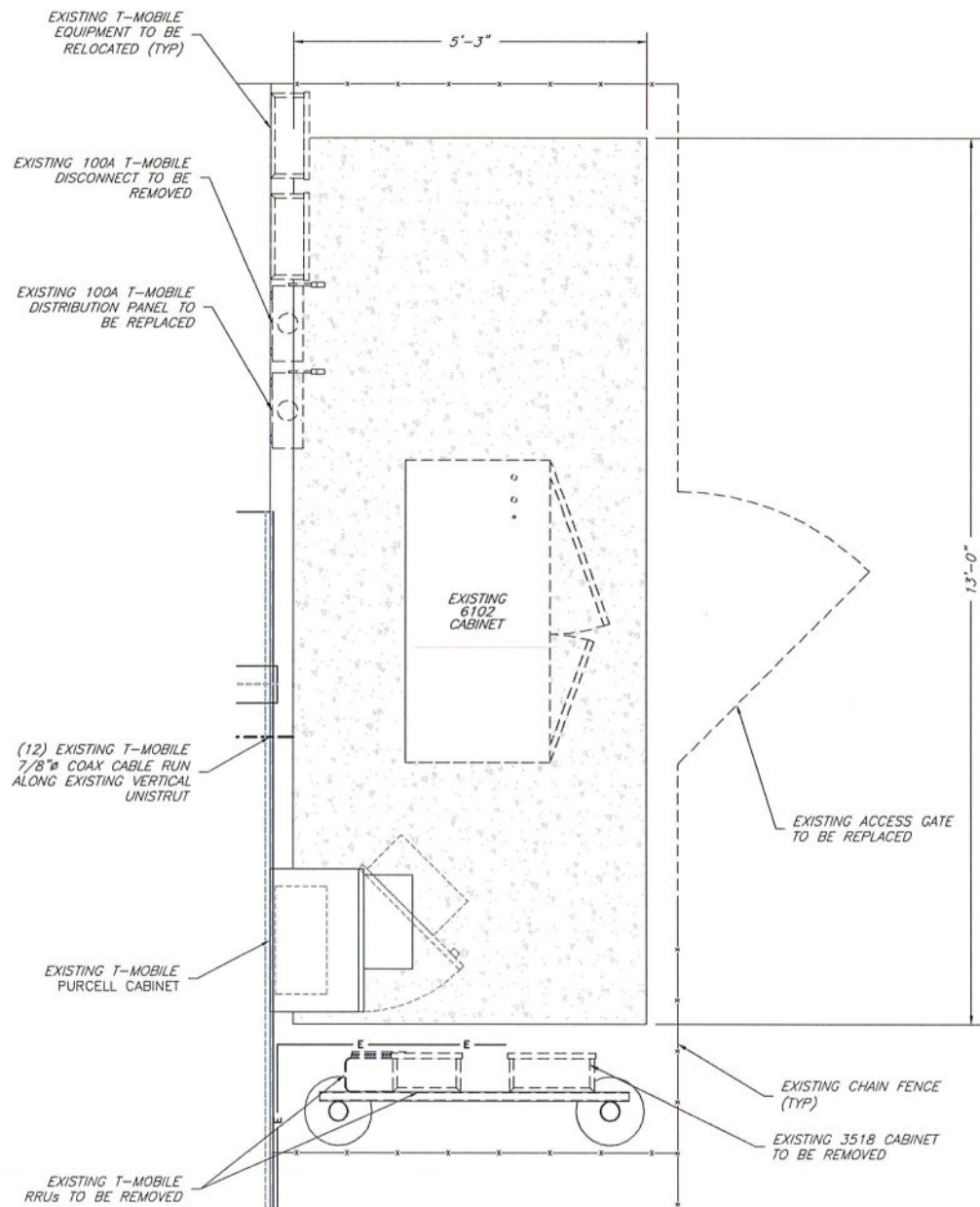
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ROOFTOP PLAN

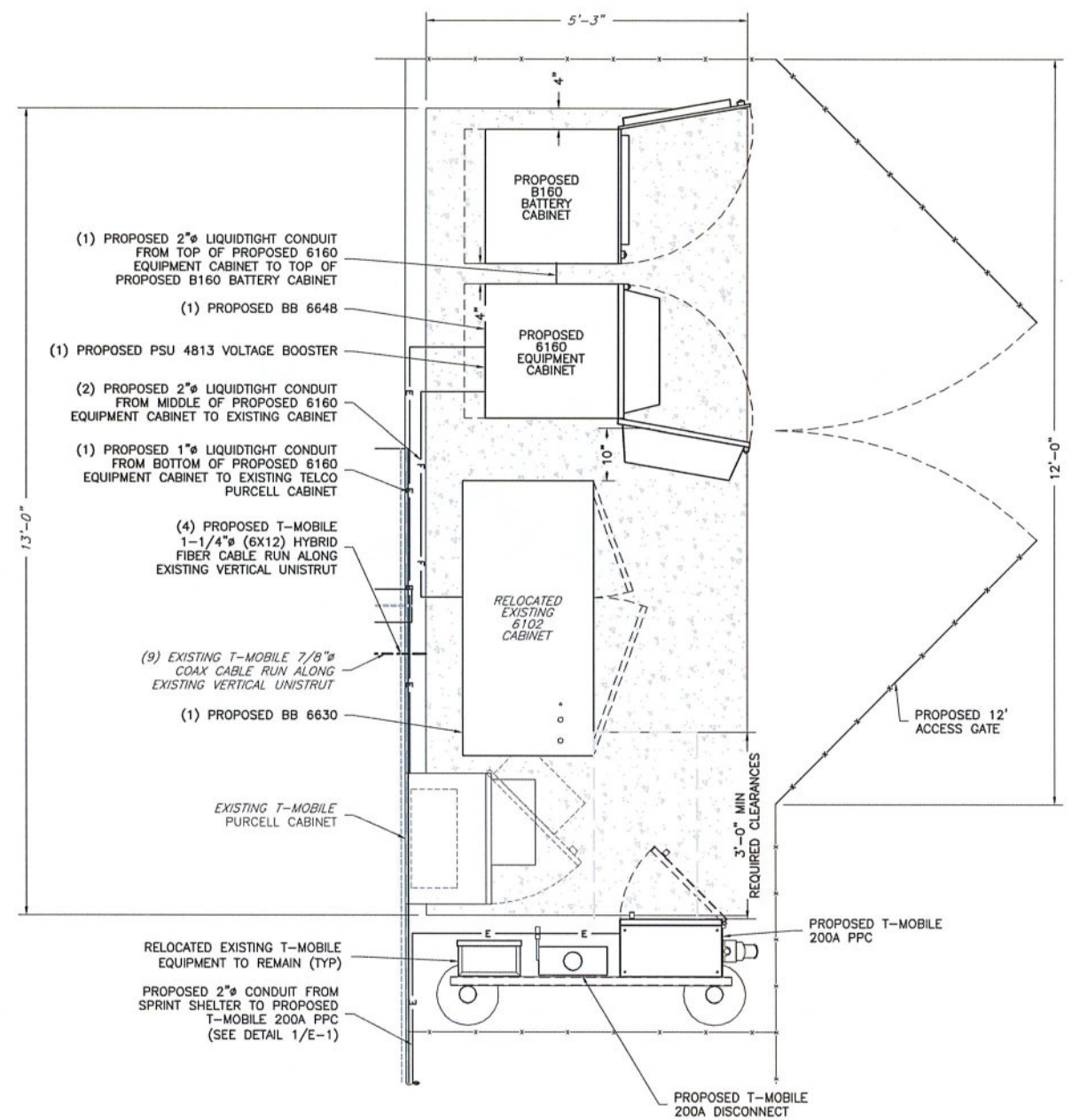
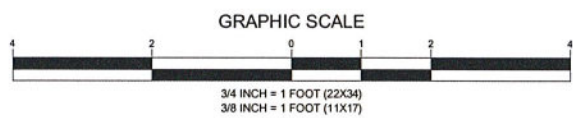
SHEET NUMBER

C-1

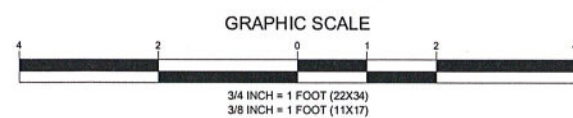
LAST PLOTTED: 11/13/2020 3:29 PM



1 EXISTING EQUIPMENT PLAN
 SCALE: 3/4" = 1' (22X34)
 SCALE: 3/8" = 1' (11X17)



2 PROPOSED EQUIPMENT PLAN
 SCALE: 3/4" = 1' (22X34)
 SCALE: 3/8" = 1' (11X17)



ENGINEERING FIRM

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SHEET TITLE

EQUIPMENT PLANS

SHEET NUMBER

C-2

ENGINEERING FIRM



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1777 SENTRY PARKWAY WEST
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APPLICANT



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SITE INFORMATION

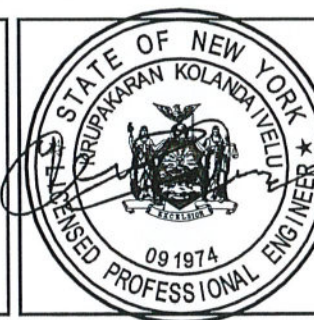
3ONS079B
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ENGINEER

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STATE OF NEW YORK
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SHEET TITLE

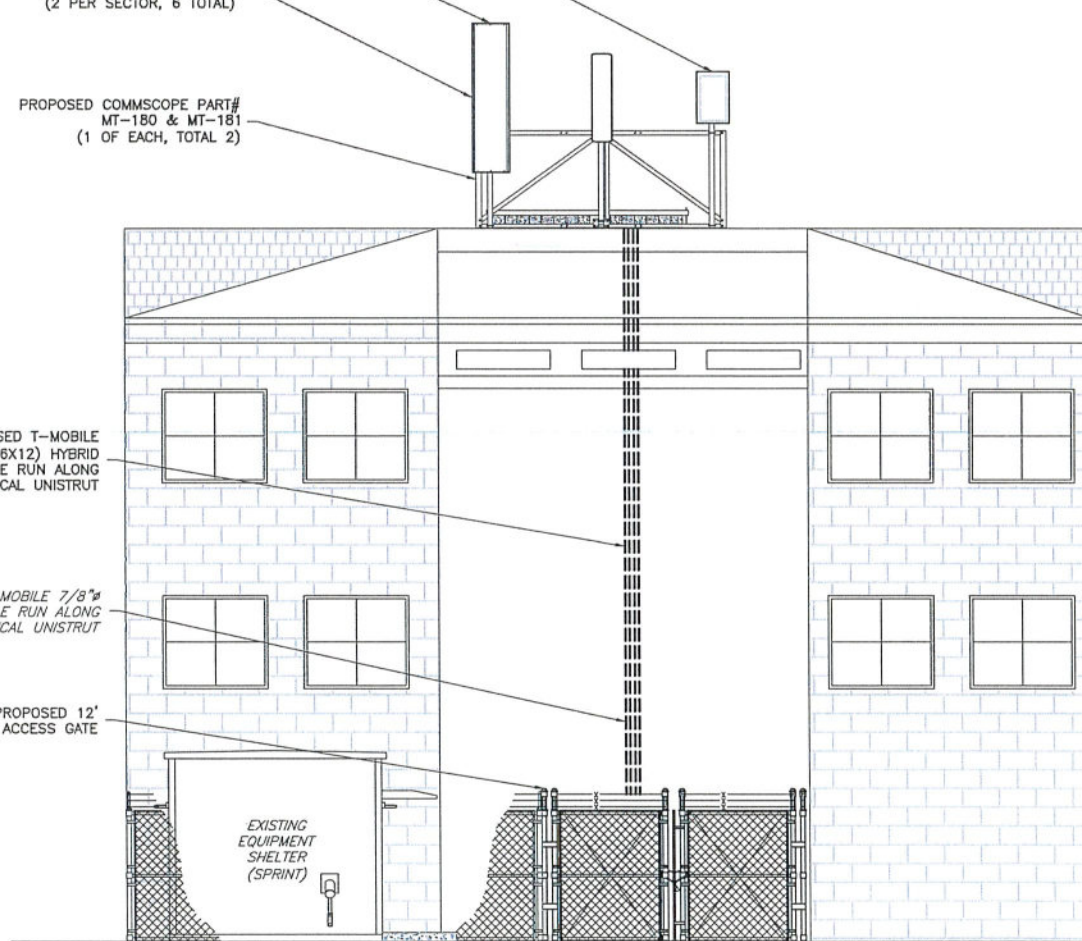
ELEVATION

SHEET NUMBER

C-3

- (3) PROPOSED T-MOBILE ANTENNAS TO REPLACE (3) EXISTING ANTENNAS (SEE SHEET A-1& A-2) (1 PER SECTOR, 3 TOTAL)
- (6) PROPOSED T-MOBILE ANTENNAS (SEE SHEET A-1& A-2) (2 PER SECTOR, 6 TOTAL)
- (6) PROPOSED T-MOBILE RRU (SEE SHEET A-1& A-2) (2 PER SECTOR, 6 TOTAL)
- PROPOSED COMMSCOPE PART# MT-180 & MT-181 (1 OF EACH, TOTAL 2)

- (4) PROPOSED T-MOBILE 1-1/4" (8X12) HYBRID FIBER CABLE RUN ALONG EXISTING VERTICAL UNISTRUT
- (9) EXISTING T-MOBILE 7/8" COAX CABLE RUN ALONG EXISTING VERTICAL UNISTRUT
- PROPOSED 12' ACCESS GATE



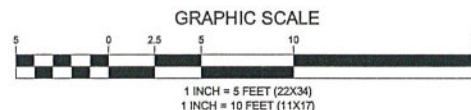
- TOP OF T-MOBILE ANTENNA ELEV.=48'-11" AGL
- T-MOBILE ANTENNA CENTERLINE ELEV.=45'-0" AGL
- TOP OF BUILDING ELEV.=39'-0" AGL

GRADE 00.0' AGL

GENERAL ANTENNA NOTES

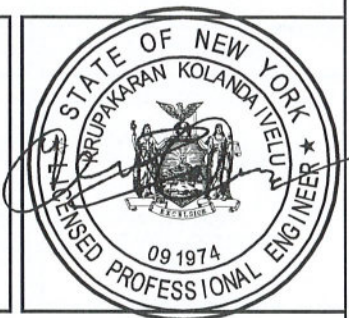
- ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR IS TO COORDINATE AND VERIFY THE PROPOSED DOWNTILTS WITH T-MOBILE MANAGER PRIOR TO CONSTRUCTION.
- ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'. (EXISTING GRADE)
- CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH.
- CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- ALL CABLE LENGTHS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- COLOR TAPE MARKINGS MUST BE 3/4" WIDE AND UV RESISTANT, SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE.
- CONTRACTOR SHALL COORDINATE COLOR CODINGS IN THE FIELD WITH T-MOBILE REPRESENTATIVE.
- 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.

1 ELEVATION
C-3 SCALE: 1" = 5' (22X34)
SCALE: 1" = 10' (11X17)



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PROFESSIONAL ENGINEER
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ANTENNA SCHEDULE

A-1

ANTENNA SCHEDULE

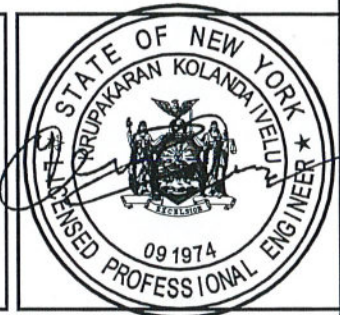
SECTOR	STATUS	TECHNOLOGY				ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA DIMENSIONS (HxWxD)	RAD CENTER	AZIMUTH	ELEC DOWNTILT	MECH DOWNTILT	RRU QUANTITY & MODEL	TMA/DIPLEXER QUANTITY & MODEL	CABLE QUANTITY & TYPE	CABLE LENGTH
A1	PROPOSED	L2500	N2500	L2500	N2500	ERICSSON	AIR6449_B41	33.00"x20.60"x8.60"	45.00'	30°	2°	0°	-	-	(1) PROPOSED 1-1/4"ø (6x12) HYBRID CABLES (3) EXISTING 7/8"ø COAX CABLES	100'±
A2	PROPOSED	L2100	N2100	G1900	G1900	ERICSSON	AIR32 KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	45.00'	30°	2/2°	0°	-	-		98.00'
A3	PROPOSED	L700 L600 N600	L700 L600 N600	L1900 L1900 U1900	L1900 L1900 U1900	RFS	APXVAALL24_43-U-NA20	95.90"x24.00"x8.50"	45.00'	30°	2/2°/2/2°	0°	(1) PROPOSED 4449 B71+B85 (1) PROPOSED 4415 B25	-		
B1	PROPOSED	L2500	N2500	L2500	N2500	ERICSSON	AIR6449_B41	33.00"x20.60"x8.60"	45.00'	150°	2°	0°	-	-	(1) PROPOSED 1-1/4"ø (6x12) HYBRID CABLES (3) EXISTING 7/8"ø COAX CABLES	100'±
B2	PROPOSED	L2100	N2100	G1900	G1900	ERICSSON	AIR32 KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	45.00'	150°	2/2°	0°	-	-		98.00'
B3	PROPOSED	L700 L600 N600	L700 L600 N600	L1900 L1900 U1900	L1900 L1900 U1900	RFS	APXVAALL24_43-U-NA20	95.90"x24.00"x8.50"	45.00'	150°	2/2°/2/2°	0°	(1) PROPOSED 4449 B71+B85 (1) PROPOSED 4415 B25	-		
C1	PROPOSED	L2500	N2500	L2500	N2500	ERICSSON	AIR6449_B41	33.00"x20.60"x8.60"	45.00'	270°	2°	0°	-	-	(2) PROPOSED 1-1/4"ø (6x12) HYBRID CABLES (3) EXISTING 7/8"ø COAX CABLES	100'±
C2	PROPOSED	L2100	N2100	G1900	G1900	ERICSSON	AIR32 KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	45.00'	270°	2/2°	0°	-	-		98.00'
C3	PROPOSED	L700 L600 N600	L700 L600 N600	L1900 L1900 U1900	L1900 L1900 U1900	RFS	APXVAALL24_43-U-NA20	95.90"x24.00"x8.50"	45.00'	270°	2/2°/2/2°	0°	(1) PROPOSED 4449 B71+B85 (1) PROPOSED 4415 B25	-		

NOTES:
1. PLANS PREPARED PER RF SHEET DATED 10/02/2020. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

1 ANTENNA CONFIGURATION SCHEDULE
A-1 NOT TO SCALE

REVISIONS

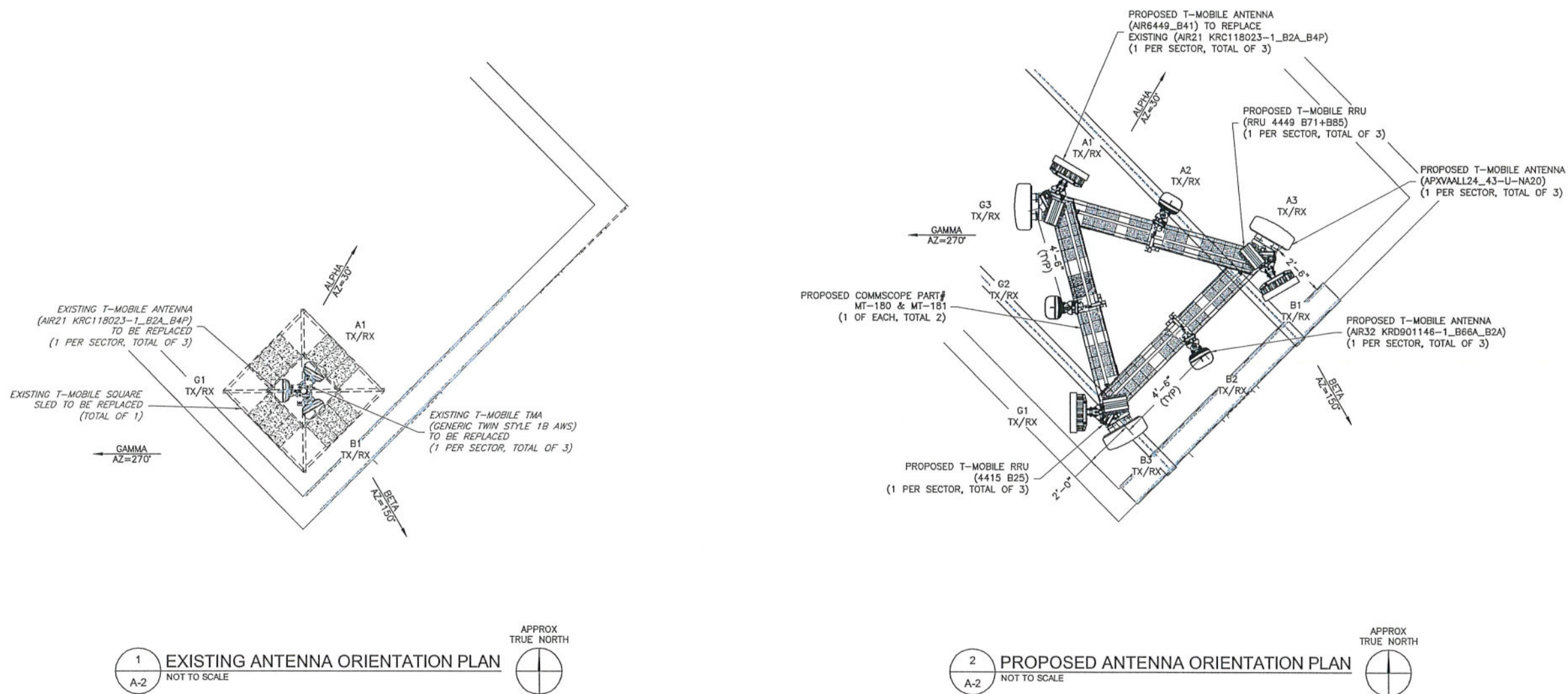
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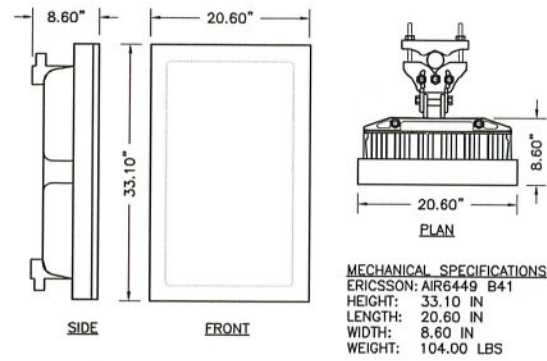


KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974

ANTENNA
ORIENTATION
PLANS

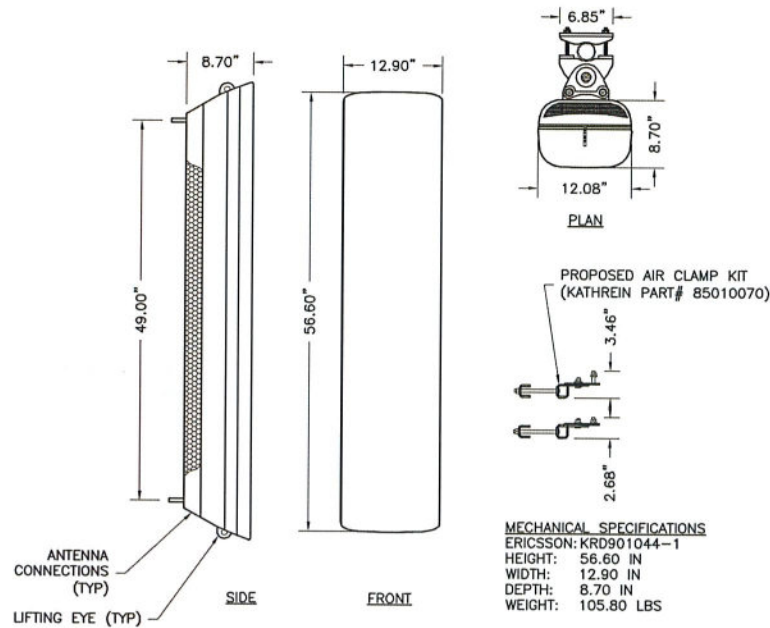
A-2





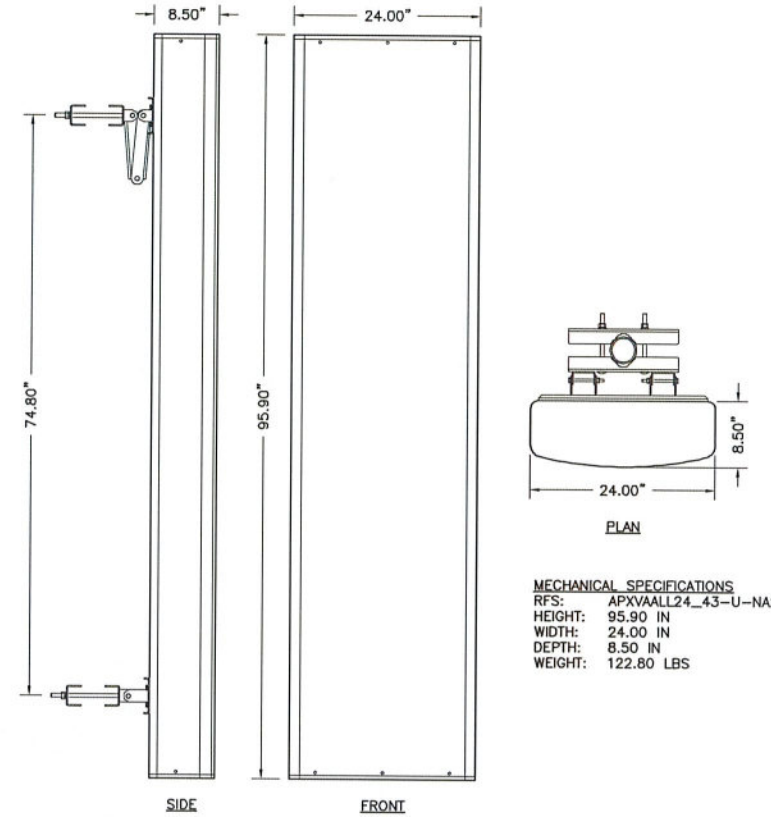
MECHANICAL SPECIFICATIONS
 ERICSSON: AIR6449 B41
 HEIGHT: 33.10 IN
 LENGTH: 20.60 IN
 WIDTH: 8.60 IN
 WEIGHT: 104.00 LBS

1 ERICSSON PANEL ANTENNA
 A-3 NOT TO SCALE



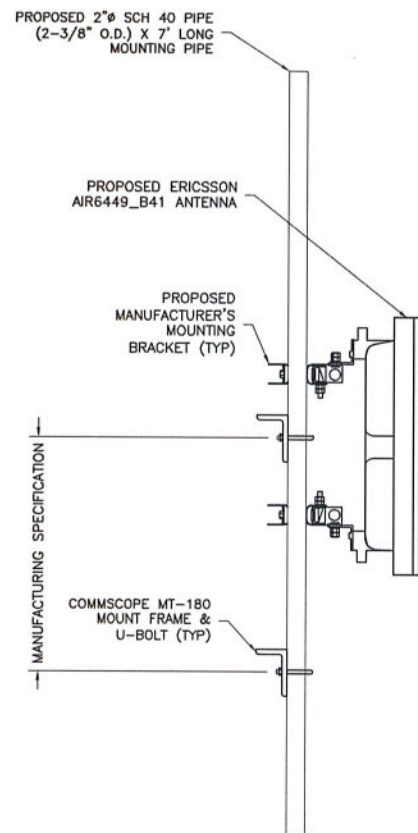
MECHANICAL SPECIFICATIONS
 ERICSSON: KRD901044-1
 HEIGHT: 56.60 IN
 WIDTH: 12.90 IN
 DEPTH: 8.70 IN
 WEIGHT: 105.80 LBS

2 ERICSSON PANEL ANTENNA
 A-3 NOT TO SCALE

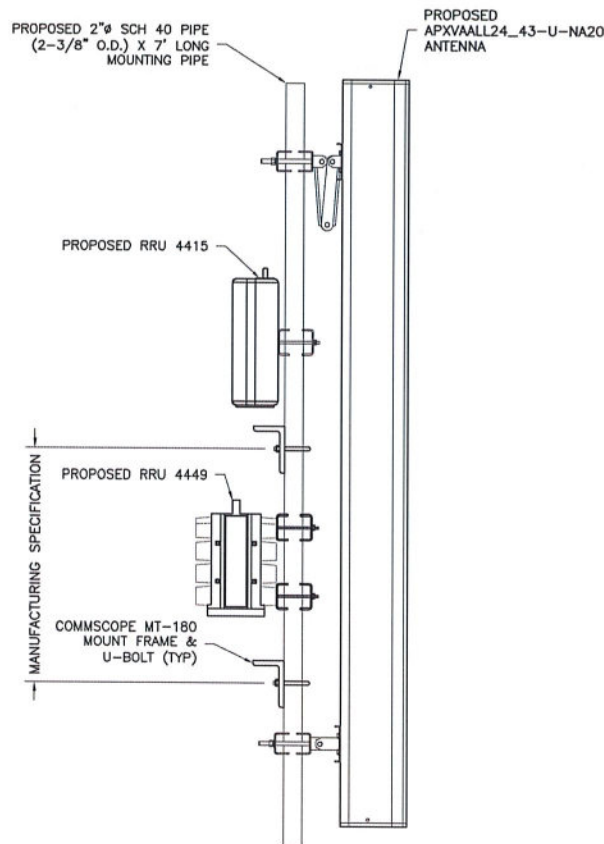


MECHANICAL SPECIFICATIONS
 RFS: APXVAALL24_43-U-NA20
 HEIGHT: 95.90 IN
 WIDTH: 24.00 IN
 DEPTH: 8.50 IN
 WEIGHT: 122.80 LBS

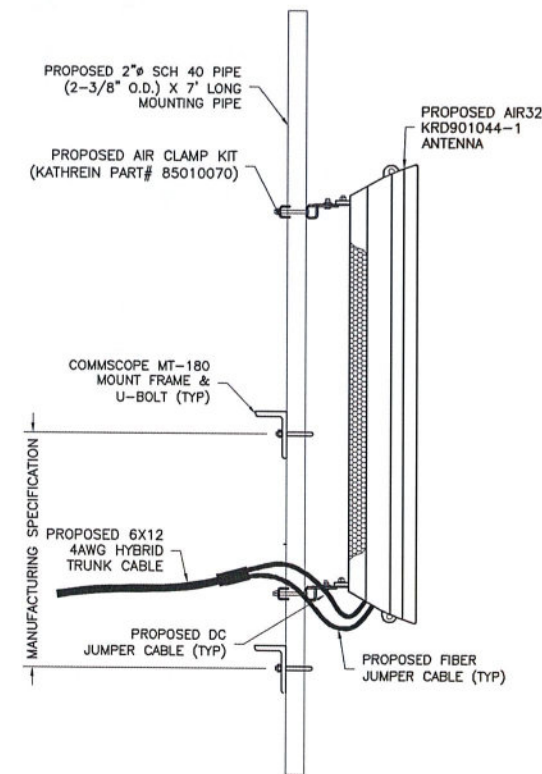
3 RFS PANEL ANTENNA
 A-3 NOT TO SCALE



4 ANTENNA MOUNTING DETAIL
 A-3 NOT TO SCALE



5 ANTENNA MOUNTING DETAIL
 A-3 NOT TO SCALE



6 ANTENNA MOUNTING DETAIL
 A-3 NOT TO SCALE

ENGINEERING FIRM

NB+C
TOTALLY COMMITTED.
 NB+C ENGINEERING SERVICES, LLC.
 1777 SENTRY PARKWAY WEST
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SITE INFORMATION

3ONS079B
 EAST_GENESEE
 960 SALT SPRINGS ROAD
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PROFESSIONAL STAMP



ENGINEER

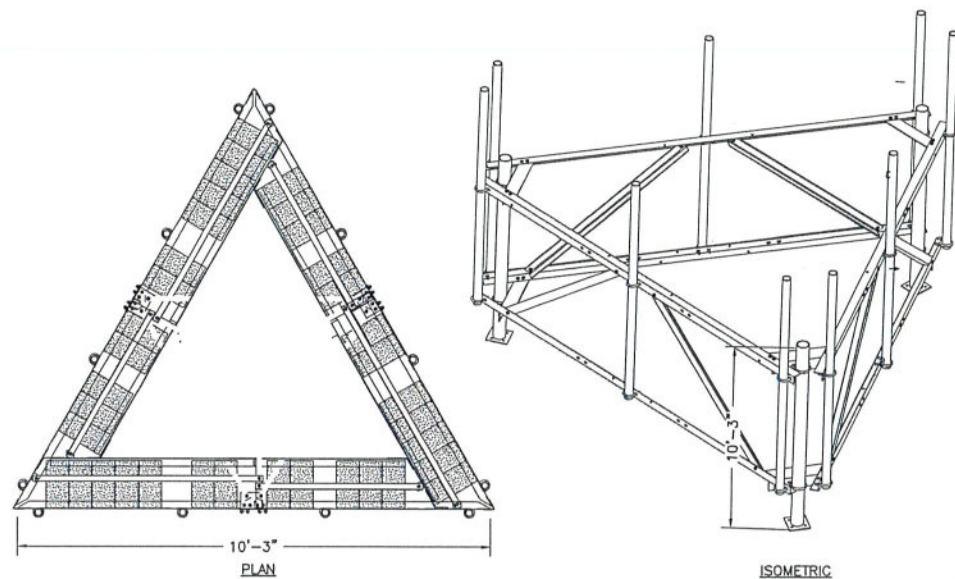
KRUPAKARAN KOLANDAIVELU, P.E.
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SHEET TITLE

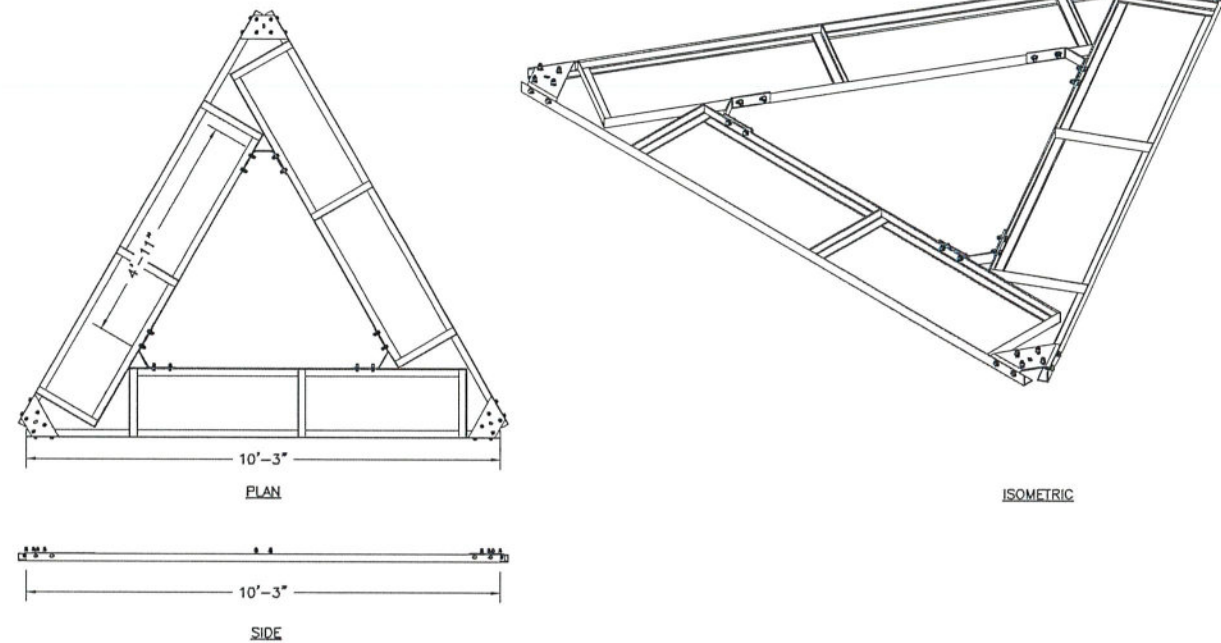
ANTENNA SPECIFICATIONS & DETAILS

SHEET NUMBER

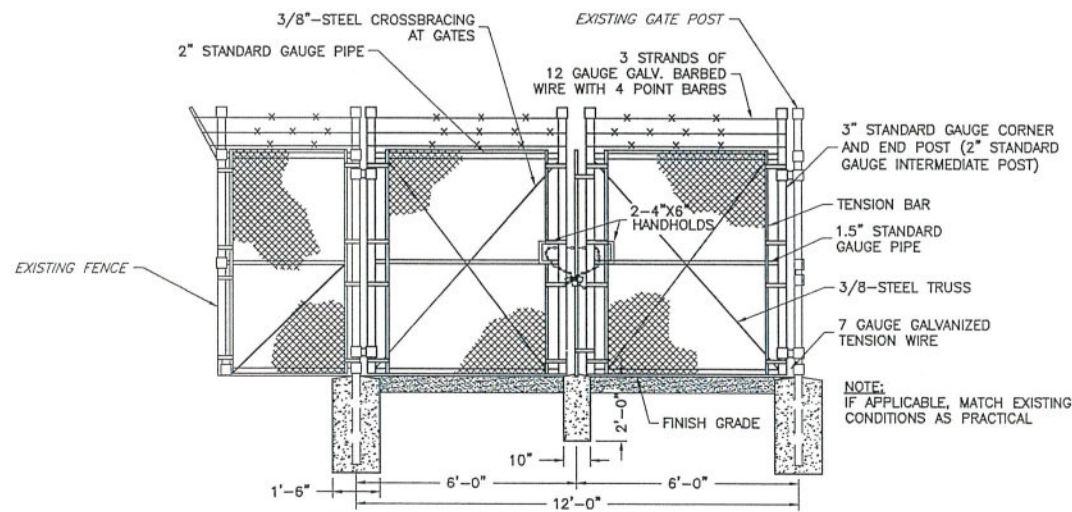
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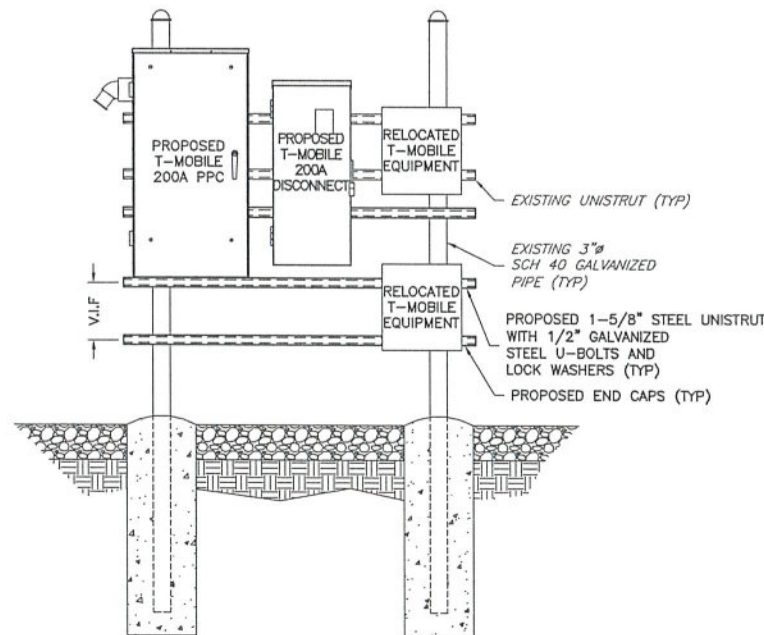
1 COMMSCOPE MT-180 NON PENETRATING SLED DETAIL
A-4 NOT TO SCALE



2 COMMSCOPE MT-181 BALLAST MOUNT DETAIL
A-4 NOT TO SCALE



3 TYPICAL FENCE AND GATE DETAIL
A-4 NTS



4 RRU H-FRAME DETAIL
A-4 NTS

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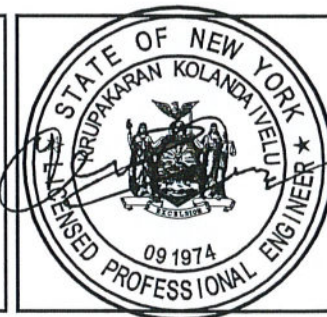
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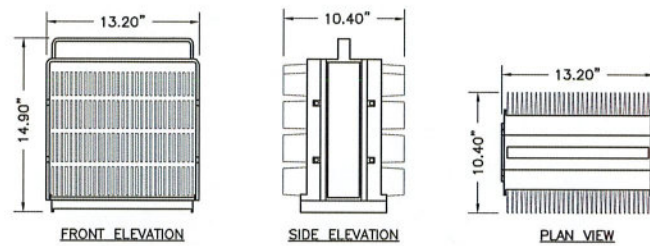
KRUPAKARAN KOLANDAIVELU, P.E.
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SHEET TITLE

SLED &
GATE
DETAILS

SHEET NUMBER

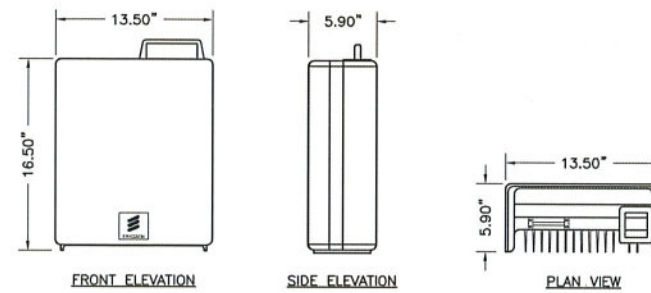
A-4



SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 4449 B71+BB5	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.

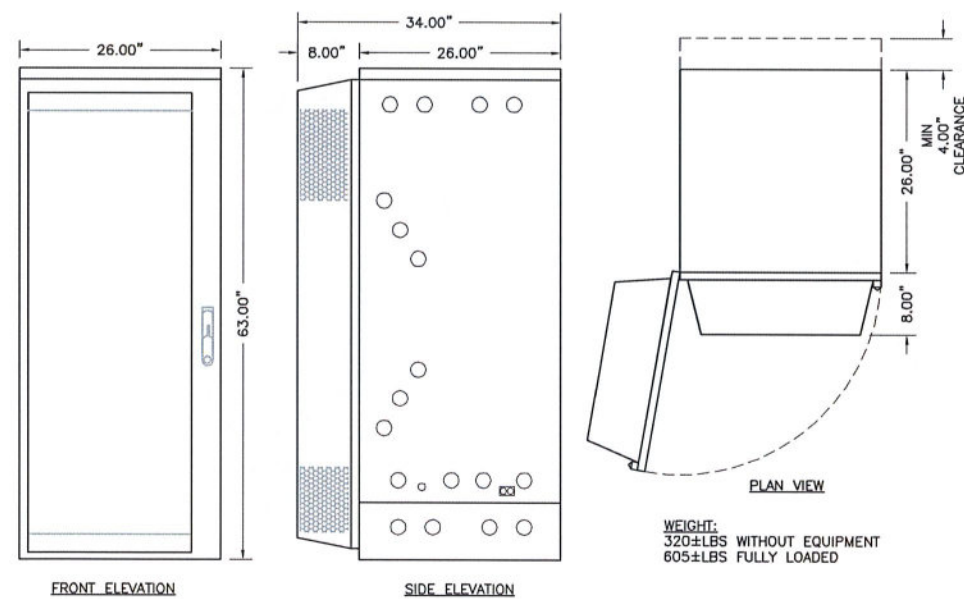
1 REMOTE RADIO UNIT (RRU)
A-5 NOT TO SCALE



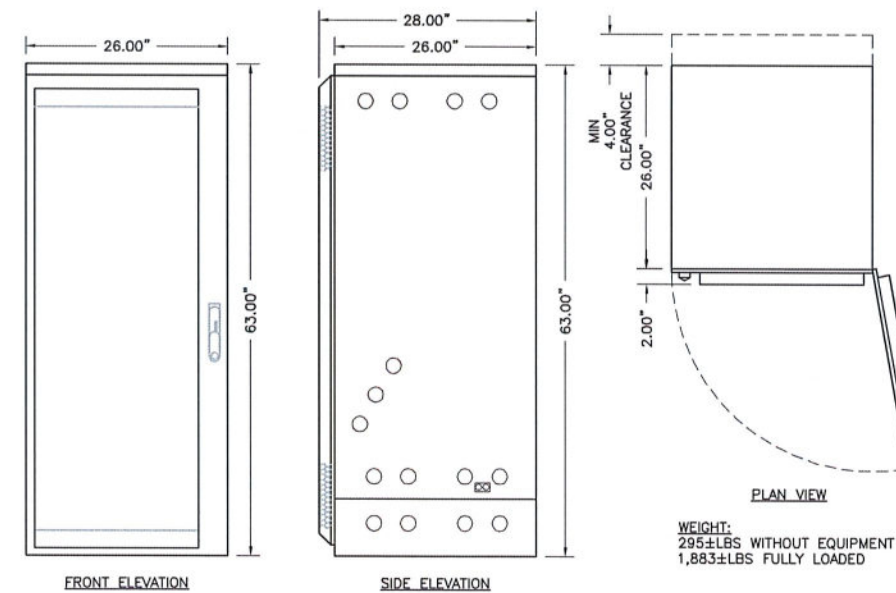
SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 4415	16.50"	13.50"	5.90"	46.00 LBS

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

2 REMOTE RADIO UNIT (RRU)
A-5 NOT TO SCALE



3 6160 ENCLOSURE CABINET
A-5 NOT TO SCALE



4 B160 BATTERY CABINET
A-5 NOT TO SCALE

ENGINEERING FIRM

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ENGINEER

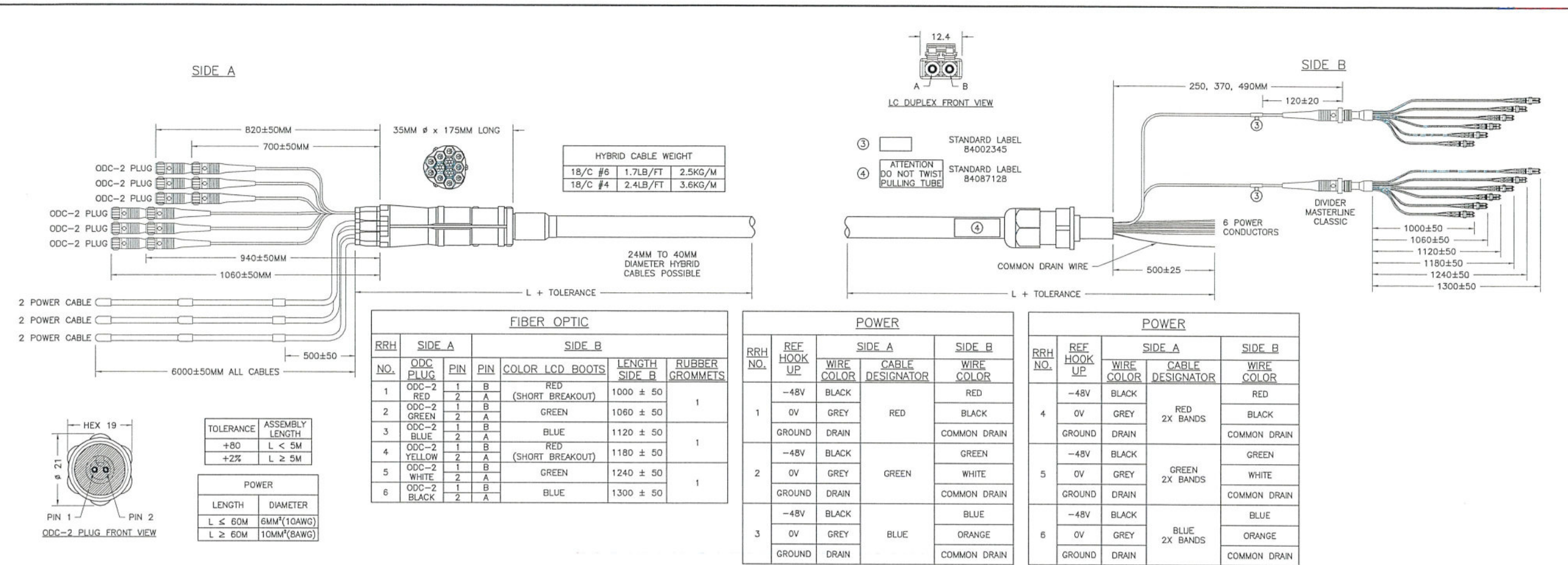
KRUPAKARAN KOLANDAIVELU, P.E.
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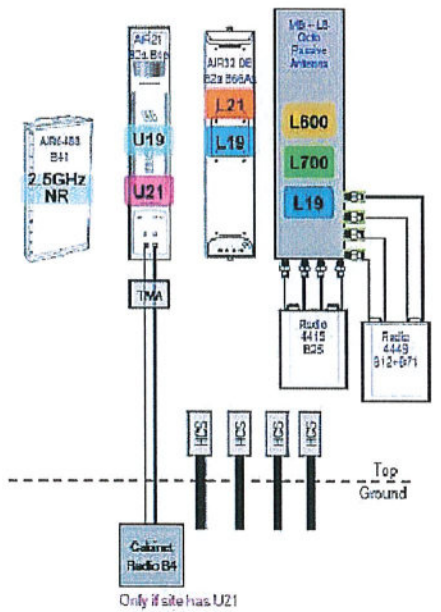
**EQUIPMENT
SPECIFICATIONS
& DETAILS**

SHEET NUMBER

A-5



1 MLE HYBRID CABLE (6 POWER/12 FIBER)
A-6 NOT TO SCALE



2 67D5A997DB HYBRID ANTENNA AND CABLING SCHEMATIC
A-6 NOT TO SCALE

ENGINEERING FIRM
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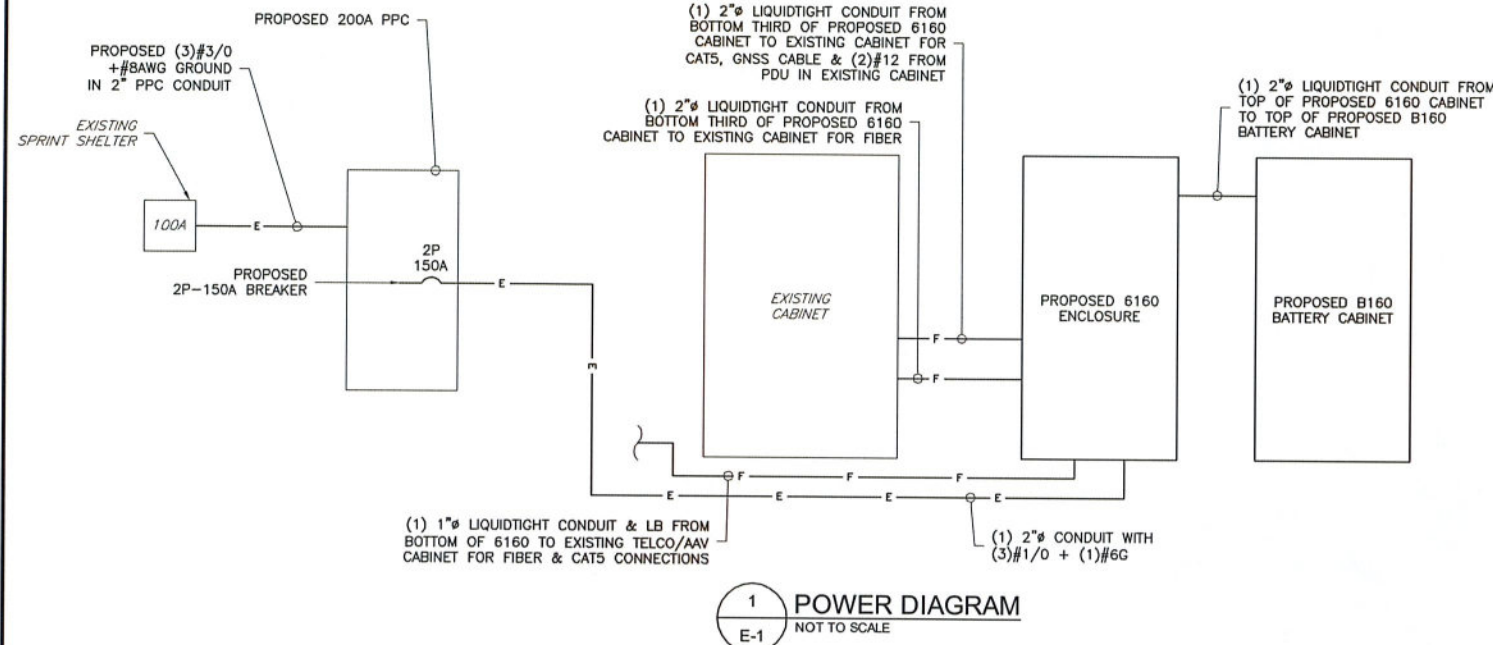
DESIGN RECORD

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 STATE OF NEW YORK
 KRUPAKARAN KOLANDAIVELU
 LICENSED PROFESSIONAL ENGINEER
 09 1974

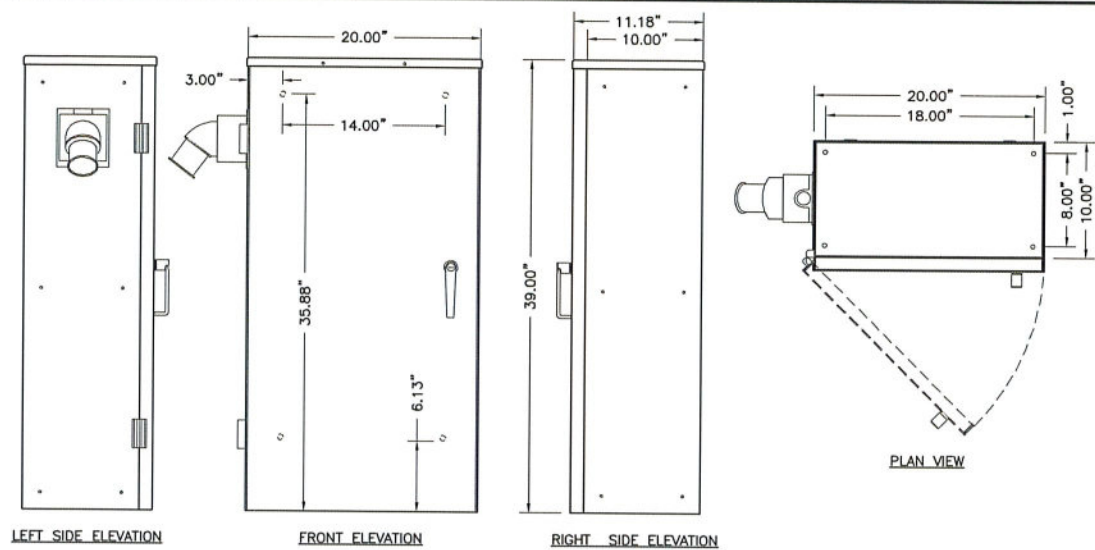
ENGINEER
 KRUPAKARAN KOLANDAIVELU, P.E.
 STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 LICENSE #091974

SHEET TITLE
CABLING DETAILS & RF PLUMBING DIAGRAM

SHEET NUMBER
A-6



1 POWER DIAGRAM
E-1 NOT TO SCALE



PPC SPECIFICATIONS:
 CABINET TYPE: UL TYPE NEMA 3R
 MATERIAL: 0.1" THICK ALUMINUM WITH POWDER COATING
 WEIGHT: APPROXIMATELY 75 LBS
 UL: LISTED TO UL 891
 SERVICE: 120/240V, 1 PHASE, 3 WIRE, 200 AMP
 GENERATOR RECEPTACLE: 200A CAMLOCK SINGLE POLE 45' ADAPTER
 LOAD CENTER: 200A, 30 POSITION SQUARE D (TVSS)

2 VERTIV COMPACT 200A PPC
E-1 NOT TO SCALE

PROPOSED PPC PANEL														
MAIN BREAKER RATING (A):			200			SYSTEM VOLTAGE (V):			240			PHASE: 1 WIRE: 3 BRANCH CB: 24		
C K T	CIRCUIT DESCRIPTION	WATTAGE		POLE	B R K	LOAD PER PHASE		B R K	POLE	WATTAGE		CIRCUIT DESCRIPTION	C K T	
		C	NC			A	B			NC	C			
1	6102 ENCLOSURE	0	9750	2	100	9930		20	60	180	0	PURCELL CABINET	2	
3		0	9750				9930			180	0		4	
5		0	15120				15120			0	0		6	
7	6160 ENCLOSURE	0	15120	2	150		15300	20	1	180	0	6160 GFCI	8	
9		0	0				0			0	10			
11		0	0			0				0	0		12	
13		0	0			0				0	0		14	
15		0	0			0				0	0		16	
17		0	0			0				0	0		18	
19		0	0			0				0	0		20	
21		0	0			0				0	0		22	
23		0	0			0				0	0		24	
TOTAL LOADS PER PHASE						25050	25230							
SUBTOTAL CONTINUOUS						0	125% TOTAL CONTINUOUS (VA) 0							
SUBTOTAL NON-CONTINUOUS						50280	100% TOTAL NON-CONTINUOUS (VA) 50280							
TOTAL AMPS						209.50								
TOTAL CONNECTED LOAD (KVA)						50.28								
SPARE CAPACITY (A)						-9.50								

NOTES

*INSTALL (1) NEW 2P-150A BREAKER FOR PROPOSED 6160

**INSTALL (1) NEW 1P-20A BREAKER FOR PROPOSED 6160 GFCI

***WATTAGE SHOWN FOR EXISTING/PROPOSED EQUIPMENT CABINET(S) ARE BASED ON THE CONNECTED EQUIPMENT PER THE LATEST RFDS

****PROPOSED 200A PPC TO REPLACE EXISTING 100A DISTRIBUTION PANEL

***** REMOVED 3518 CABINET

3 PANEL SCHEDULE
E-1 NOT TO SCALE

NB+C
 TOTALLY COMMITTED.
 NB+C ENGINEERING SERVICES, LLC.
 1777 SENTRY PARKWAY WEST
 VEVA 17, SUITE 400
 BLUE BELL, PA 19422
 (267) 460-0122

T-Mobile
 T-MOBILE NORTHEAST LLC
 103 MONARCH DRIVE
 LIVERPOOL, NY 13088
 OFFICE: (315) 265-1882

3ONS079B
 EAST GENESEE
 960 SALT SPRINGS ROAD
 SYRACUSE, NY 13224
 CITY OF SYRACUSE
 ONONDAGA COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
1	11/12/20	ISSUED FOR PERMITTING	CMA
0	10/26/20	PRELIMINARY	AP

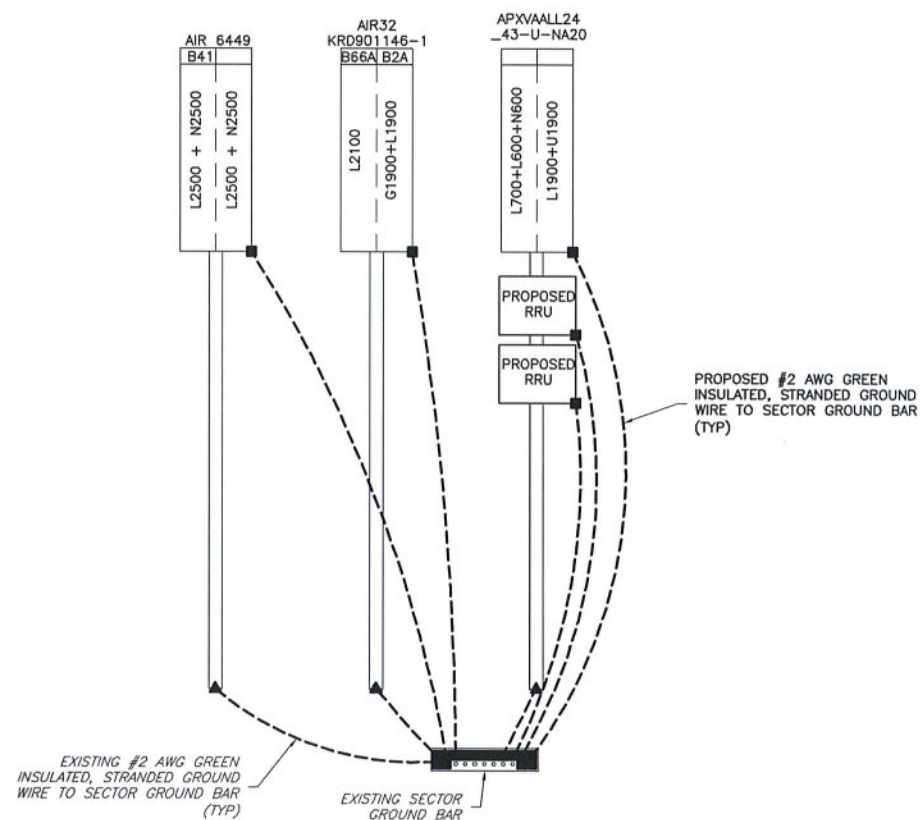


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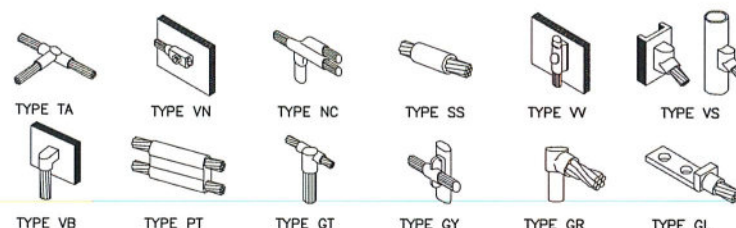
**ELECTRICAL
 DETAILS**

E-1

ALPHA, BETA & GAMMA



1 ANTENNA GROUNDING DETAIL
G-1 NOT TO SCALE



2 GROUNDING CONNECTION DETAILS
G-1 NOT TO SCALE

GROUNDING LEGEND	
■	MECHANICAL COMPRESSION CONNECTION
▲	CADWELD CONNECTION
●	EXOTHERMIC WELD CONNECTION
---	PROPOSED GROUND WIRING
---	EXISTING GROUND WIRING

ENGINEERING FIRM	<p>NB+C TOTALLY COMMITTED.</p> <p>NB+C ENGINEERING SERVICES, LLC. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122</p>																
APPLICANT	<p>T-MOBILE NORTHEAST LLC</p> <p>103 MONARCH DRIVE LIVERPOOL, NY 13088 OFFICE: (315) 265-1882</p>																
SITE INFORMATION	<p>3ONS079B EAST_GENESEE 960 SALT SPRINGS ROAD SYRACUSE, NY 13224 CITY OF SYRACUSE ONONDAGA COUNTY</p>																
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ENGINEER	<p>KRUPAKARAN KOLANDAIVELU, P.E. STATE OF NEW YORK PROFESSIONAL ENGINEER LICENSE #091974</p>																
SHEET TITLE	<p>GROUNDING DETAILS</p>																
SHEET NUMBER	<p>G-1</p>																

NOTE TO GENERAL CONTRACTOR:
NO WORK IS TO BE PERFORMED ON THIS SITE WITHOUT REVIEW OF THE APPROVED STRUCTURAL ANALYSIS. IF ANY DISCREPANCIES ARE FOUND, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. AT NO TIME WILL ANY ADDITIONAL ANTENNAS BE INSTALLED WITHOUT WRITTEN CONSENT FROM TOWER/BUILDING ENGINEER.



T-MOBILE NORTHEAST LLC

SITE NUMBER: 3ONS079B
SITE NAME: EAST_GENESEE

T-MOBILE ANCHOR INSTALLATION, DESIGN 67D5A997DB HYBRID

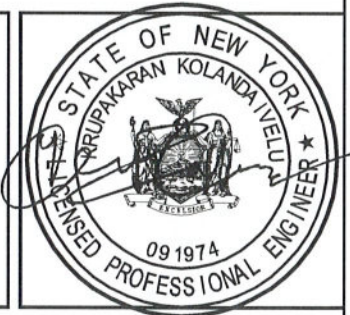
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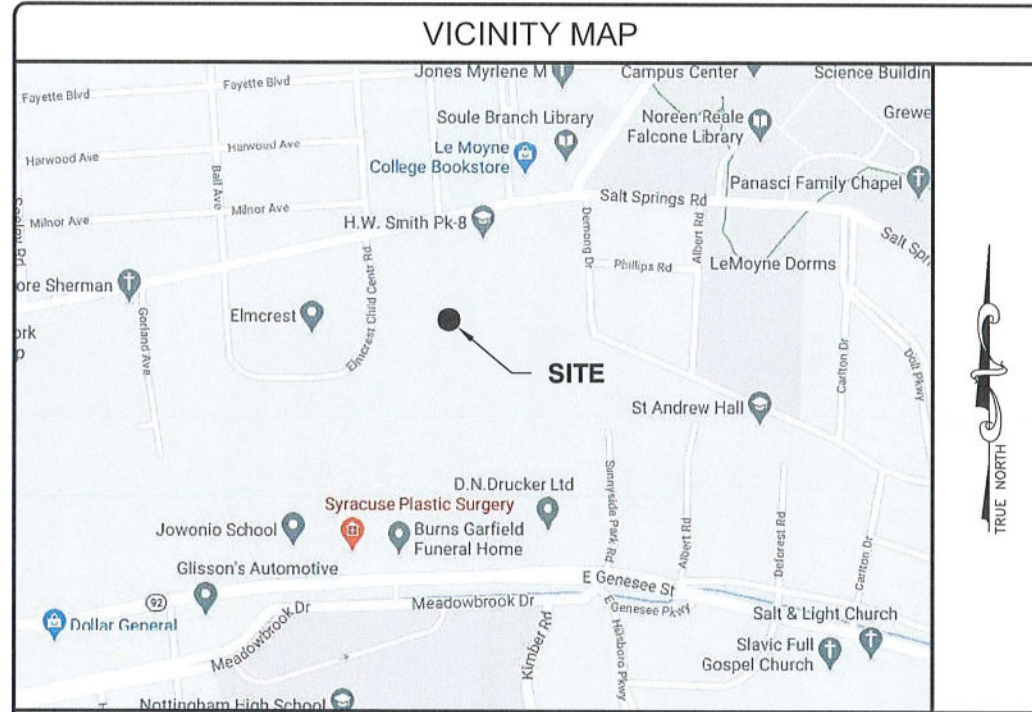


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PROFESSIONAL ENGINEER
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TITLE SHEET

T-1

SITE INFORMATION	
LATITUDE (NAD 83):	43.04467908°
LONGITUDE (NAD 83):	-76.09659070°
GROUND ELEVATION:	609.00 FEET (AMSL)
CONSTRUCTION TYPE:	IIB
USE GROUP:	U
TAX ACCOUNT NUMBER:	311500-380-000-0016-031-000-000
PARCEL AREA:	43.10± ACRES
PARCEL OWNER:	ELMCREST CHILDREN CENTER 960 SALT SPRING ROAD SYRACUSE, NEW YORK 13224
STRUCTURE TYPE:	ROOFTOP
STRUCTURE HEIGHT:	38.00'



SCOPE OF WORK	
PROJECT CONSISTS OF INSTALLING (1) PROPOSED EQUIPMENT CABINET, (1) PROPOSED BATTERY CABINET, (9) PROPOSED ANTENNAS, (6) PROPOSED RRU's, (1) 200A PPC, (4) PROPOSED 1-1/4"Ø (6X12) HYBRID CABLES AND (1) PROPOSED SLED MOUNT TO AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.	PROJECT CONSISTS OF REMOVING (1) EXISTING 3518 CABINET, (1) EXISTING 100A DISTRIBUTION PANEL, (3) EXISTING ANTENNAS, (3) EXISTING TMA, (3) EXISTING 7/8" COAX, (1) EXISTING HYBRID, AND (1) EXISTING SLED FROM AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.

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.	
<ul style="list-style-type: none"> 2020 BUILDING CODE OF NEW YORK STATE 2017 NATIONAL ELECTRICAL CODE NFPA 101, LIFE SAFETY CODE 2020 NEW YORK STATE FIRE CODE AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION 13TH EDITION 	<ul style="list-style-type: none"> ANSI/TIA-222-H (NY EDITION) TIA 607 INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81 IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION TELECordia GR-1275 ANSI/T 311

DRAWING INDEX	
T-1	TITLE SHEET
GN-1	GENERAL NOTES
C-1	ROOFTOP PLAN
C-2	EQUIPMENT PLANS
C-3	ELEVATION
A-1	ANTENNA SCHEDULE
A-2	ANTENNA ORIENTATION PLANS
A-3	ANTENNA SPECIFICATIONS & DETAILS
A-4	SLED & GATE DETAILS
A-5	EQUIPMENT SPECIFICATIONS & DETAILS
A-6	CABLING DETAIL & RF PLUMBING DIAGRAM
E-1	ELECTRICAL DETAILS
G-1	GROUNDING DETAILS

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE SCALED AT FULL SIZE (22"X34") AND MAY NOT SCALE WHEN PRINTED AT OTHER SIZES. 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.

APPROVAL BLOCK			APPROVED	APPROVED AS NOTED	DISAPPROVED/REVISE
PROPERTY OWNER	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SITE ACQUISITION	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONSTRUCTION MANAGER	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONING	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF ENGINEER	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ELECTRICAL & GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- 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).
- 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).
- 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.
- 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.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS IN AREAS WHERE VIBRATION OCCURS AND FLEXIBILITY IS NEEDED.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE THHN, THWN-2, OR THIN INSULATION.
- 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.
- 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.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 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.
- GROUND CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- 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.
- 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.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL MECHANICAL GROUND CONNECTIONS.
- 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.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
- THE T-MOBILE ELECTRICAL EQUIPMENT INCLUDING PANEL, SWITCH GEAR AND DISCONNECT ARE TO BE LABELED WITH ENGRAVED BAKELITE LABELS.




GENERAL NOTES

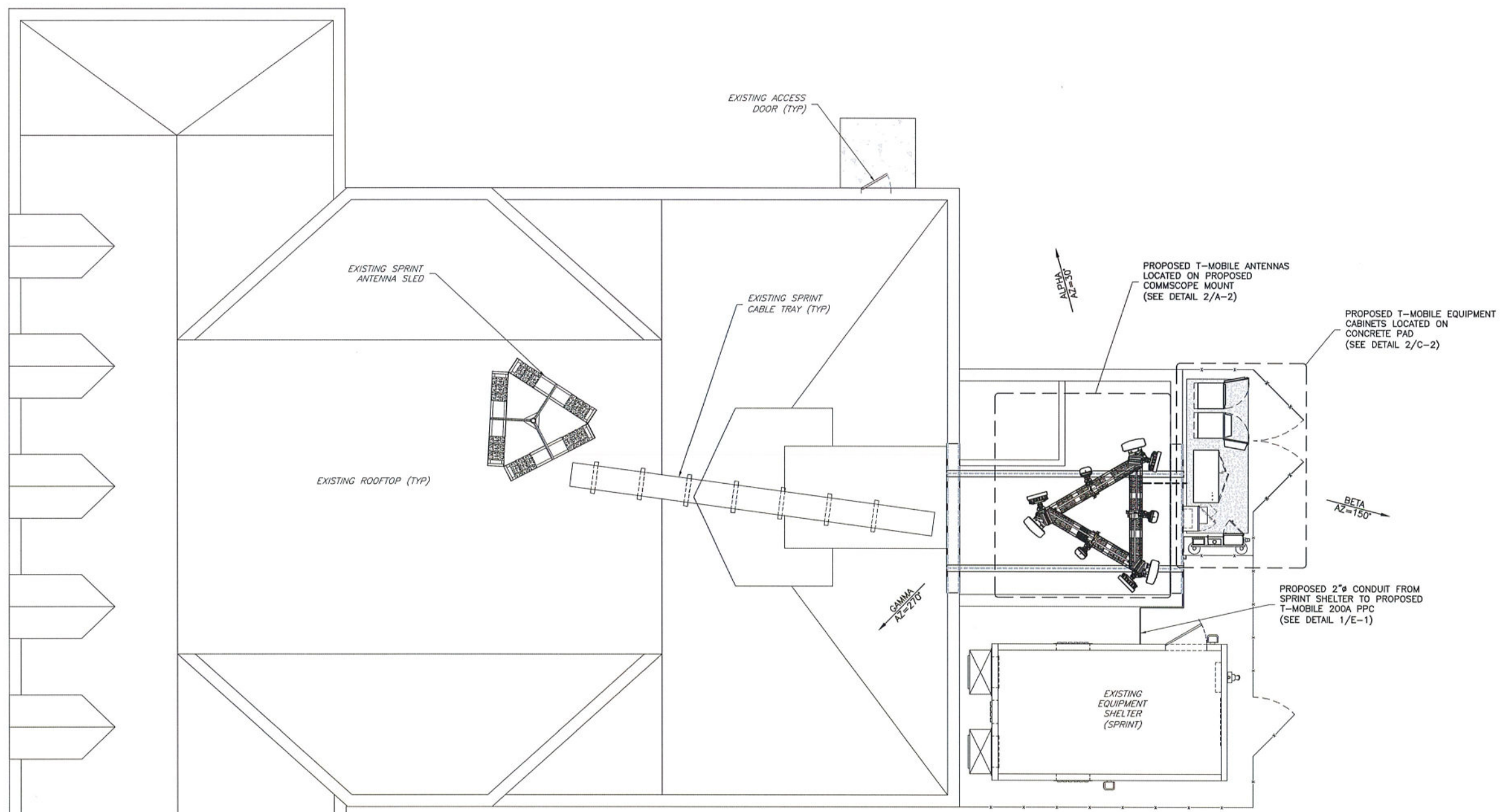
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
- ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
- IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
- PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
- THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.

STRUCTURAL NOTES

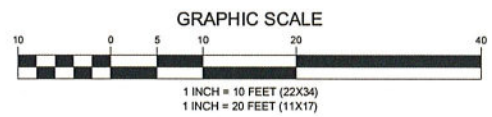
- THE STRUCTURAL STEEL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANCHOR BOLT LOCATIONS, ELEVATION OF TOP OF CONCRETE AND BEARING PLATES, ALIGNMENT ETC. PRIOR TO START OF STEEL ERECTION.
- THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS SHALL GOVERN:
 - A. AISC - "ALLOWABLE STRESS DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
 - B. AISC - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
 - C. AWS - "D1.1 STRUCTURAL WELDING CODE - STEEL".
- 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	
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER AISC REQUIREMENTS.
- 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.
- ALL STEEL TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.
- EPOXY ANCHORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- ALL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD PER AISC SPECIFICATIONS USING STANDARD HOLES.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND FIT PRIOR TO FABRICATION.




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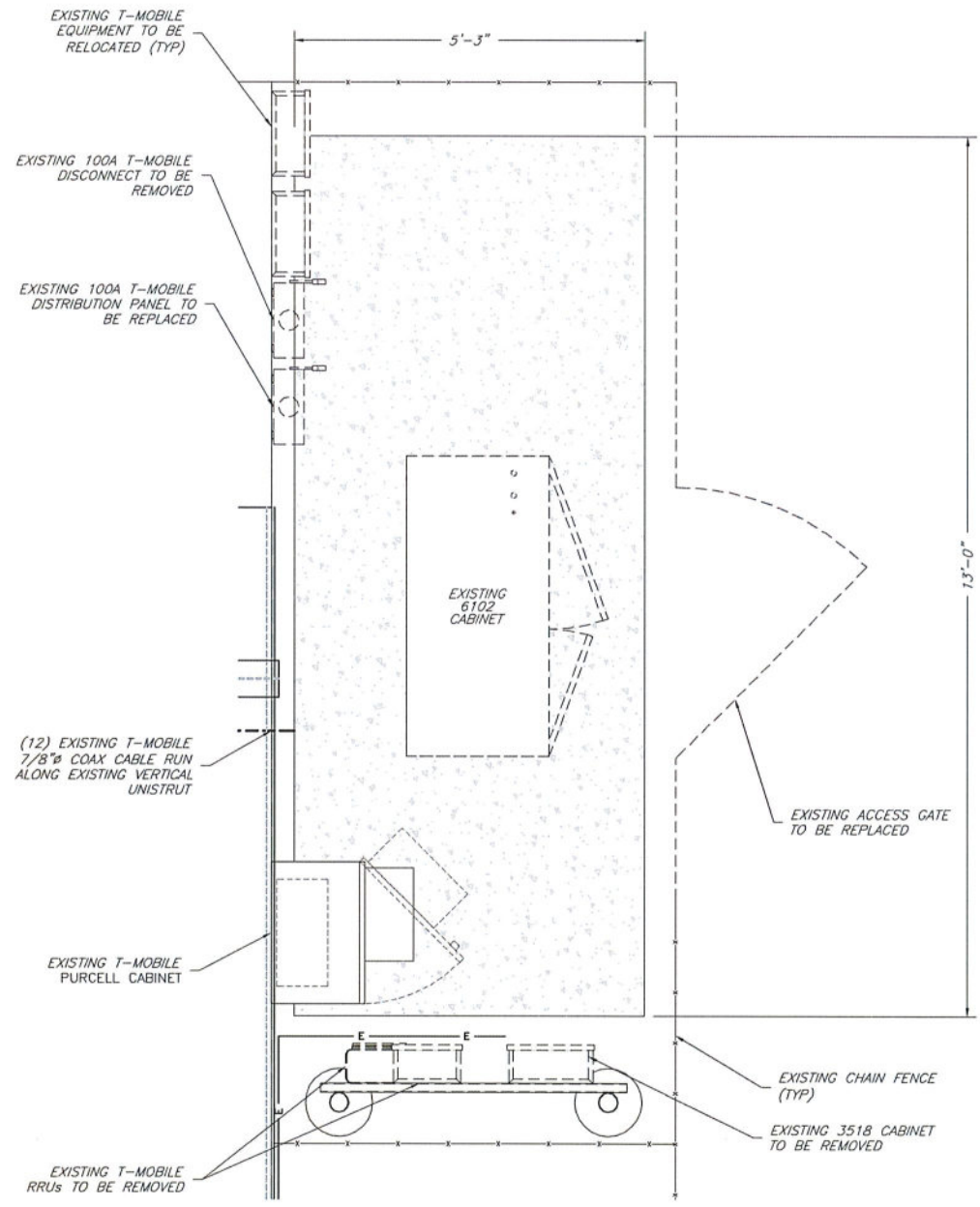


1 ROOFTOP PLAN
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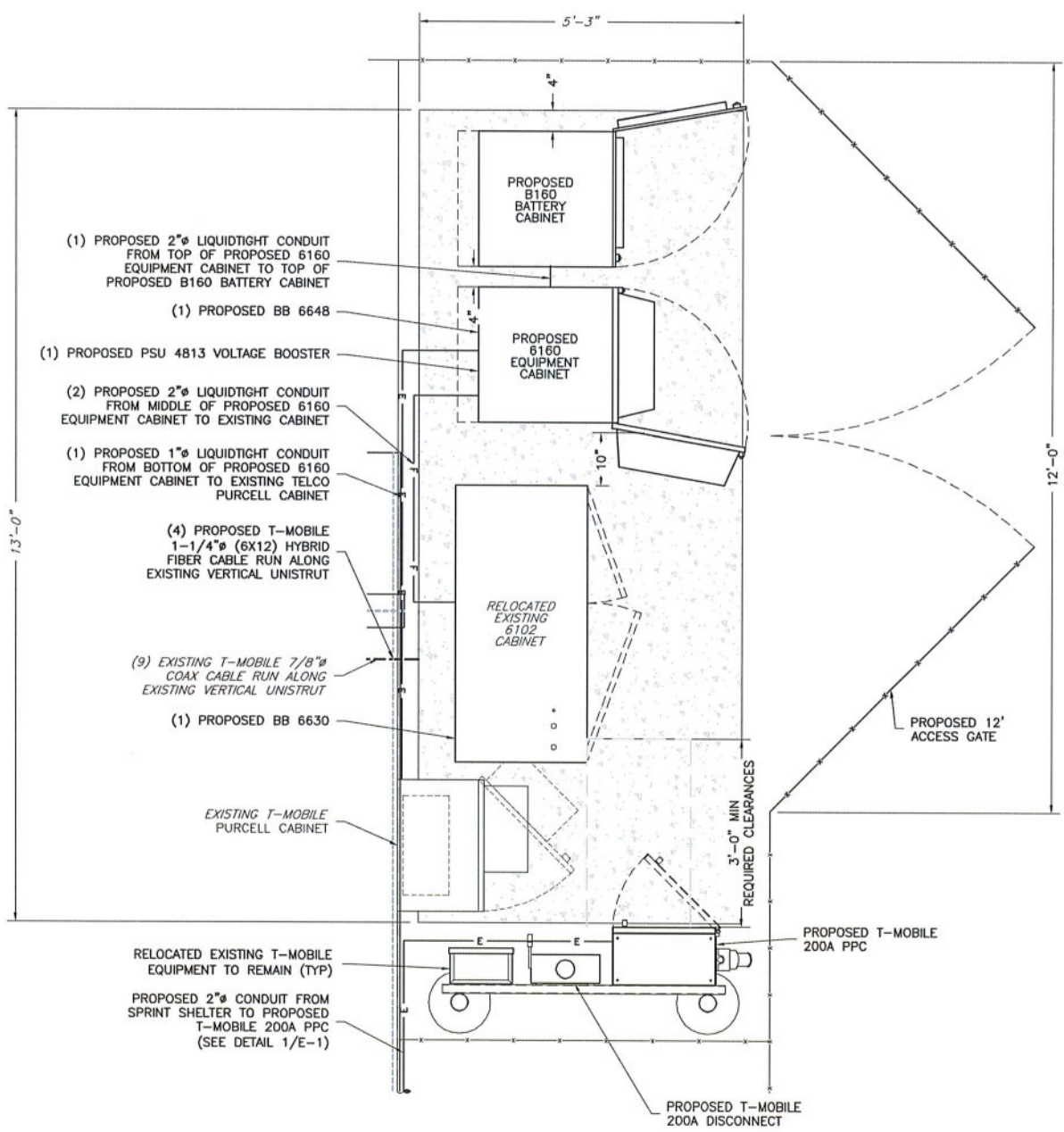
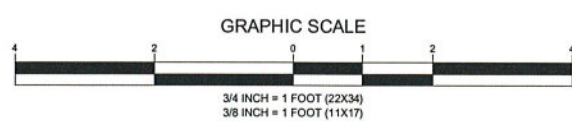


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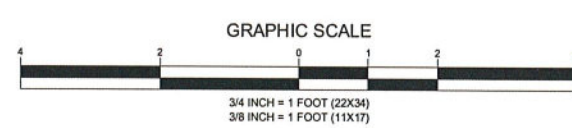
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SITE INFORMATION	3ONS079B EAST_GENESEE 960 SALT SPRINGS ROAD SYRACUSE, NY 13224 CITY OF SYRACUSE ONONDAGA COUNTY																
DESIGN RECORD	<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11/1/20</td> <td>ISSUED FOR PERMITTING</td> <td>CMA</td> </tr> <tr> <td>0</td> <td>10/28/20</td> <td>PRELIMINARY</td> <td>AP</td> </tr> </tbody> </table>	REVISIONS				REV	DATE	DESCRIPTION	BY	1	11/1/20	ISSUED FOR PERMITTING	CMA	0	10/28/20	PRELIMINARY	AP
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PROFESSIONAL STAMP																	
ENGINEER	KRUPAKARAN KOLANDAIVELU, P.E. STATE OF NEW YORK PROFESSIONAL ENGINEER LICENSE #091974																
SHEET TITLE	<h2 style="text-align: center;">ROOFTOP PLAN</h2>																
SHEET NUMBER	<h1 style="text-align: center;">C-1</h1>																



1 EXISTING EQUIPMENT PLAN
 SCALE: 3/4" = 1' (22X34)
 SCALE: 3/8" = 1' (11X17)



2 PROPOSED EQUIPMENT PLAN
 SCALE: 3/4" = 1' (22X34)
 SCALE: 3/8" = 1' (11X17)



ENGINEERING FIRM

NB+C
 TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
 1777 SENTRY PARKWAY WEST
 VEVA 17, SUITE 400
 BLUE BELL, PA 19422
 (267) 460-0122

APPLICANT

T-Mobile
 T-MOBILE NORTHEAST LLC

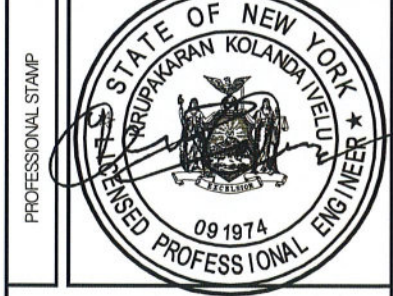
103 MONARCH DRIVE
 LIVERPOOL, NY 13088
 OFFICE: (315) 265-1882

SITE INFORMATION

3ONS079B
 EAST_GENESEE
 960 SALT SPRINGS ROAD
 SYRACUSE, NY 13224
 CITY OF SYRACUSE
 ONONDAGA COUNTY

DESIGN RECORD

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ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
 STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 LICENSE #091974

SHEET TITLE

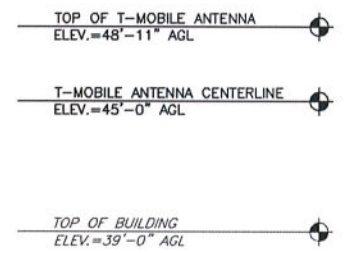
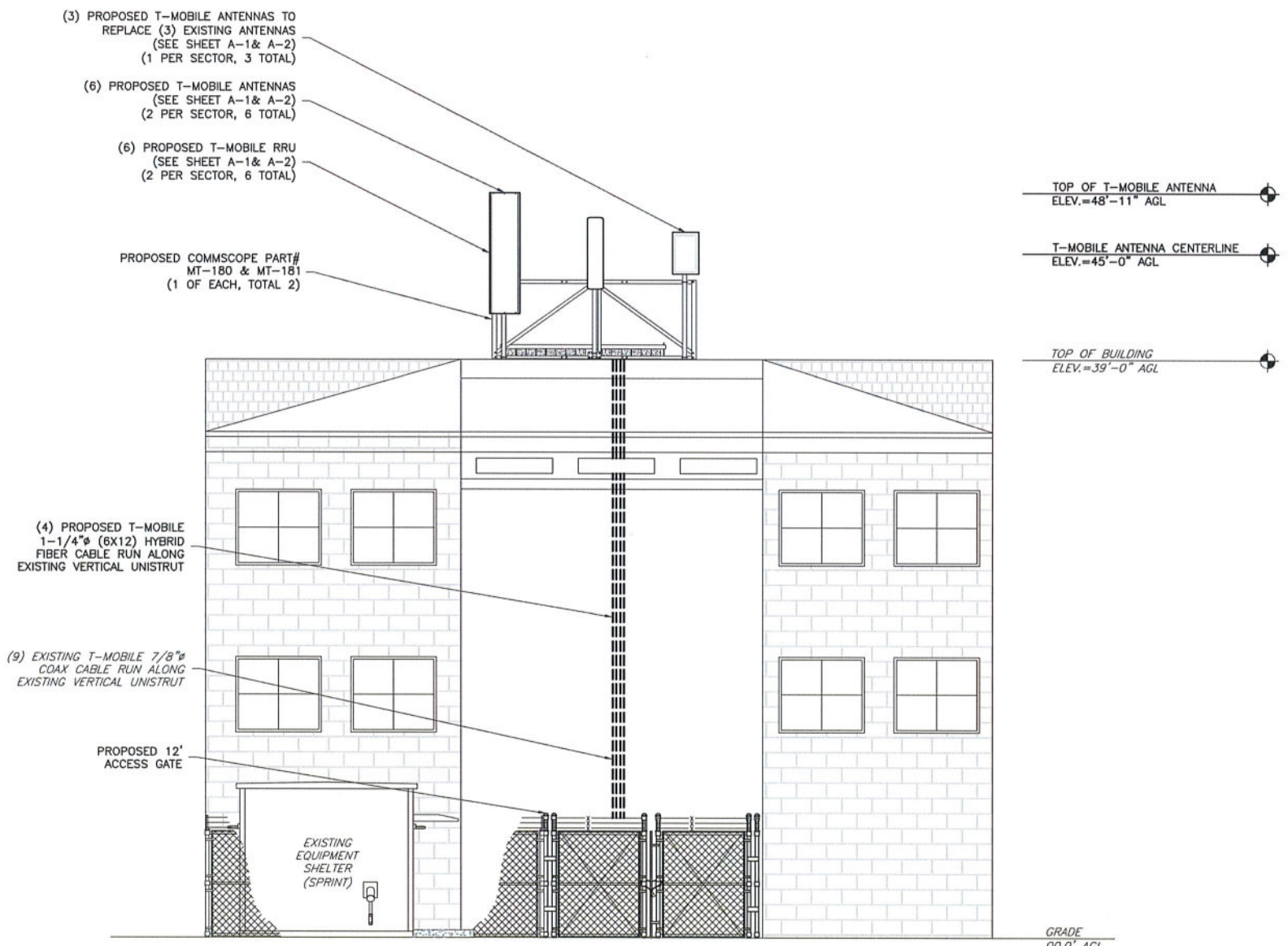
EQUIPMENT PLANS

SHEET NUMBER

C-2

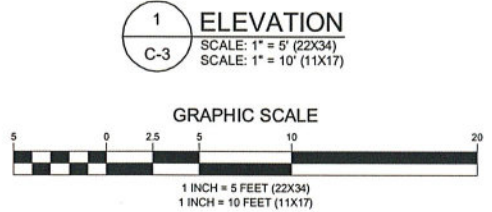
LAST PLOTTED: 11/13/2020 3:29 PM




LAST PLOTTED: 11/13/2020 3:29 PM



GENERAL ANTENNA NOTES

1. ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR IS TO COORDINATE AND VERIFY THE PROPOSED DOWNTILTS WITH T-MOBILE MANAGER PRIOR TO CONSTRUCTION.
2. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'. (EXISTING GRADE)
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 T-MOBILE 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.



ENGINEERING FIRM	 TOTALLY COMMITTED. <small>NB+C ENGINEERING SERVICES, LLC. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122</small>																
APPLICANT	 T-Mobile <small>T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088 OFFICE: (315) 265-1882</small>																
SITE INFORMATION	<small>3ONS079B EAST_GENESEE 960 SALT SPRINGS ROAD SYRACUSE, NY 13224 CITY OF SYRACUSE ONONDAGA COUNTY</small>																
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ENGINEER	<small>KRUPAKARAN KOLANDAIVELU, P.E. STATE OF NEW YORK PROFESSIONAL ENGINEER LICENSE #091974</small>																
SHEET TITLE	ELEVATION																
SHEET NUMBER	C-3																



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KRUPAKARAN KOLANDAIVELU, P.E.
 STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 LICENSE #091974

ANTENNA SCHEDULE

A-1

ANTENNA SCHEDULE

SECTOR	STATUS	TECHNOLOGY				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	L2500	N2500	L2500	N2500	ERICSSON	AIR6449_B41	33.00"x20.60"x8.60"	45.00'	30°	2'	0°	-	-	(1) PROPOSED 1-1/4"Ø (6x12) HYBRID CABLES (3) EXISTING 7/8"Ø COAX CABLES	100'±
A2	PROPOSED	L2100	N2100	G1900 L1900	G1900 L1900	ERICSSON	AIR32_KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	45.00'	30°	2'/2'	0°	-	-		
A3	PROPOSED	L700 L600 N600	L700 L600 N600	L1900 U1900	L1900 U1900	RFS	APXVAALL24_43-U-NA20	95.90"x24.00"x8.50"	45.00'	30°	2'/2'/2'/2'	0°	(1) PROPOSED 4449 B71+BB5 (1) PROPOSED 4415 B25	-		
B1	PROPOSED	L2500	N2500	L2500	N2500	ERICSSON	AIR6449_B41	33.00"x20.60"x8.60"	45.00'	150°	2'	0°	-	-	(1) PROPOSED 1-1/4"Ø (6x12) HYBRID CABLES (3) EXISTING 7/8"Ø COAX CABLES	100'±
B2	PROPOSED	L2100	N2100	G1900 L1900	G1900 L1900	ERICSSON	AIR32_KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	45.00'	150°	2'/2'	0°	-	-		
B3	PROPOSED	L700 L600 N600	L700 L600 N600	L1900 U1900	L1900 U1900	RFS	APXVAALL24_43-U-NA20	95.90"x24.00"x8.50"	45.00'	150°	2'/2'/2'/2'	0°	(1) PROPOSED 4449 B71+BB5 (1) PROPOSED 4415 B25	-		
C1	PROPOSED	L2500	N2500	L2500	N2500	ERICSSON	AIR6449_B41	33.00"x20.60"x8.60"	45.00'	270°	2'	0°	-	-	(2) PROPOSED 1-1/4"Ø (6x12) HYBRID CABLES (3) EXISTING 7/8"Ø COAX CABLES	100'±
C2	PROPOSED	L2100	N2100	G1900 L1900	G1900 L1900	ERICSSON	AIR32_KRD901146-1_B66A_B2A	56.60"x12.90"x8.70"	45.00'	270°	2'/2'	0°	-	-		
C3	PROPOSED	L700 L600 N600	L700 L600 N600	L1900 U1900	L1900 U1900	RFS	APXVAALL24_43-U-NA20	95.90"x24.00"x8.50"	45.00'	270°	2'/2'/2'/2'	0°	(1) PROPOSED 4449 B71+BB5 (1) PROPOSED 4415 B25	-		

NOTES:
 1. PLANS PREPARED PER RF SHEET DATED 10/02/2020. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
 2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

1 ANTENNA CONFIGURATION SCHEDULE
 A-1 NOT TO SCALE

REVISIONS

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KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974

ANTENNA
ORIENTATION
PLANS

A-2

ENGINEERING FIRM

APPLICANT

SITE INFORMATION

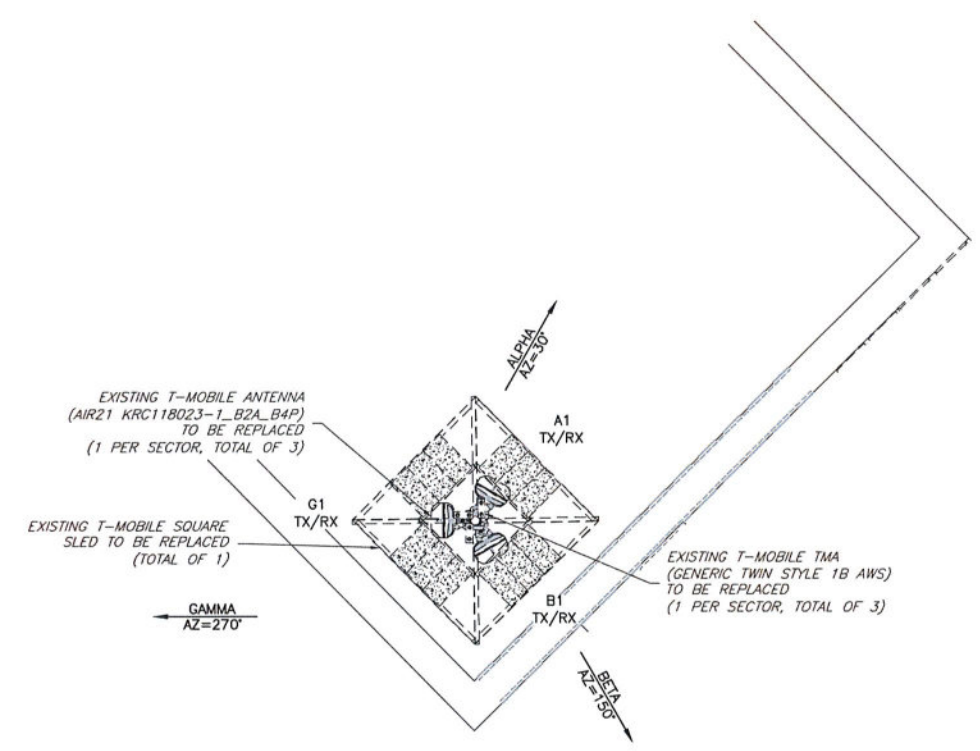
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PROFESSIONAL STAMP

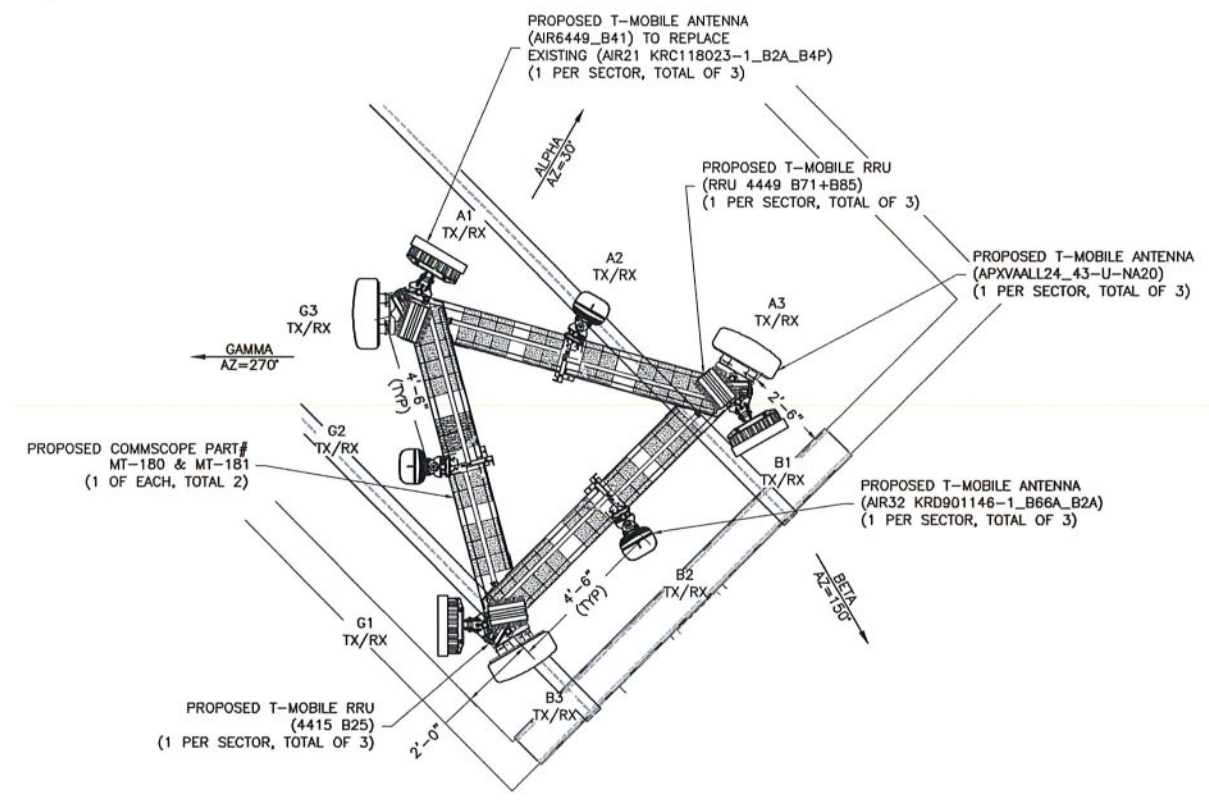
ENGINEER

SHEET TITLE

SHEET NUMBER



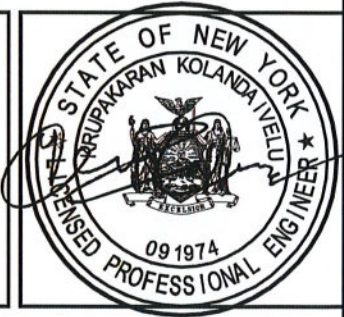
1 EXISTING ANTENNA ORIENTATION PLAN
A-2 NOT TO SCALE



2 PROPOSED ANTENNA ORIENTATION PLAN
A-2 NOT TO SCALE

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STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974

ANTENNA SPECIFICATIONS & DETAILS

A-3

ENGINEERING FIRM

APPLICANT

SITE INFORMATION

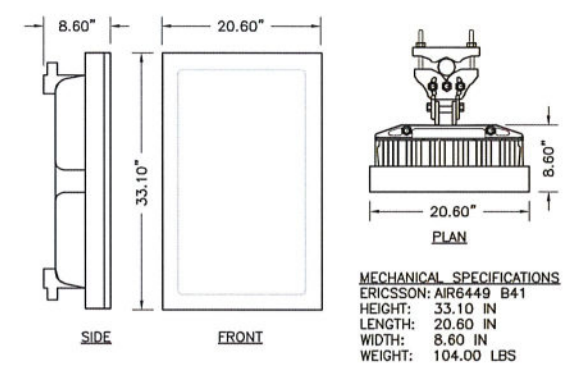
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PROFESSIONAL STAMP

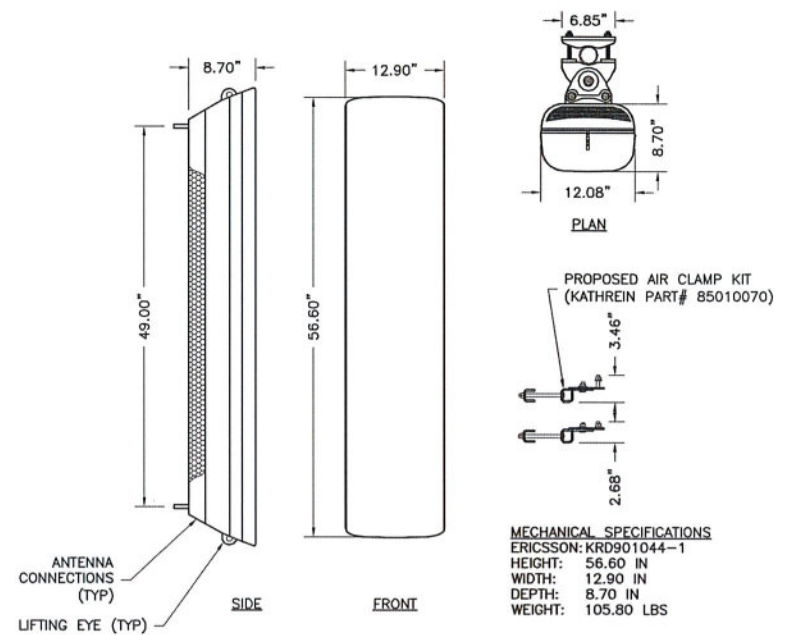
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SHEET TITLE

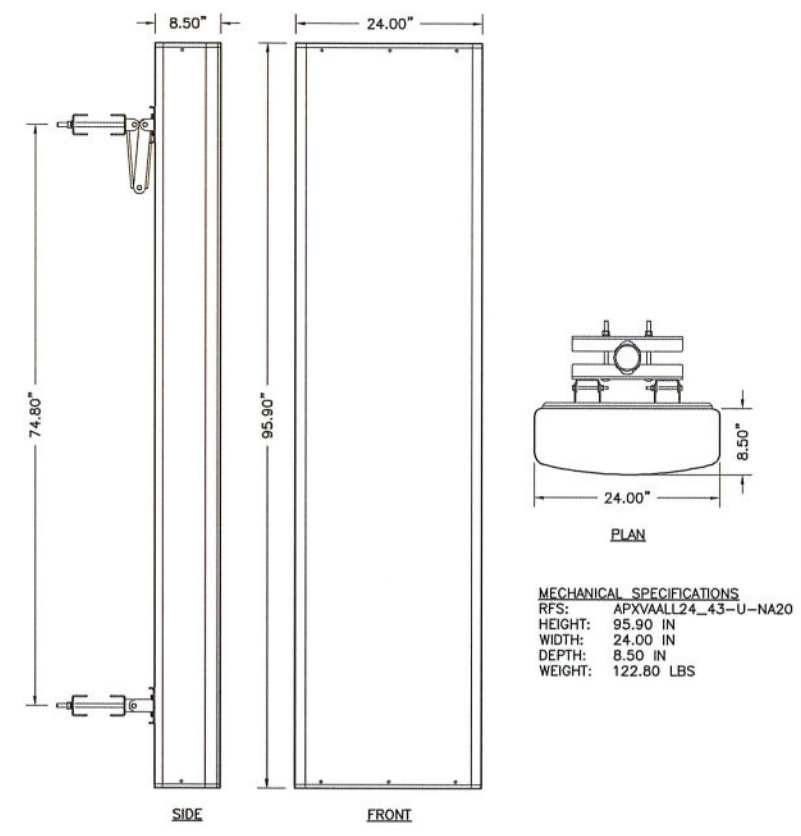
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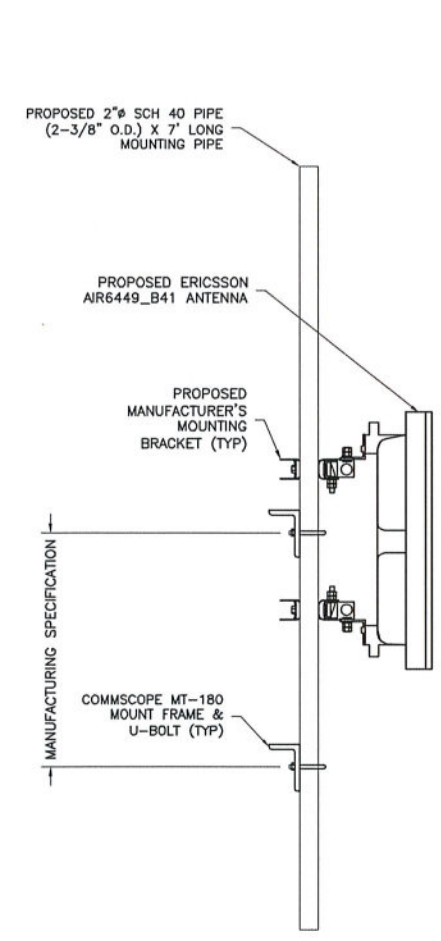
1 ERICSSON PANEL ANTENNA
NOT TO SCALE



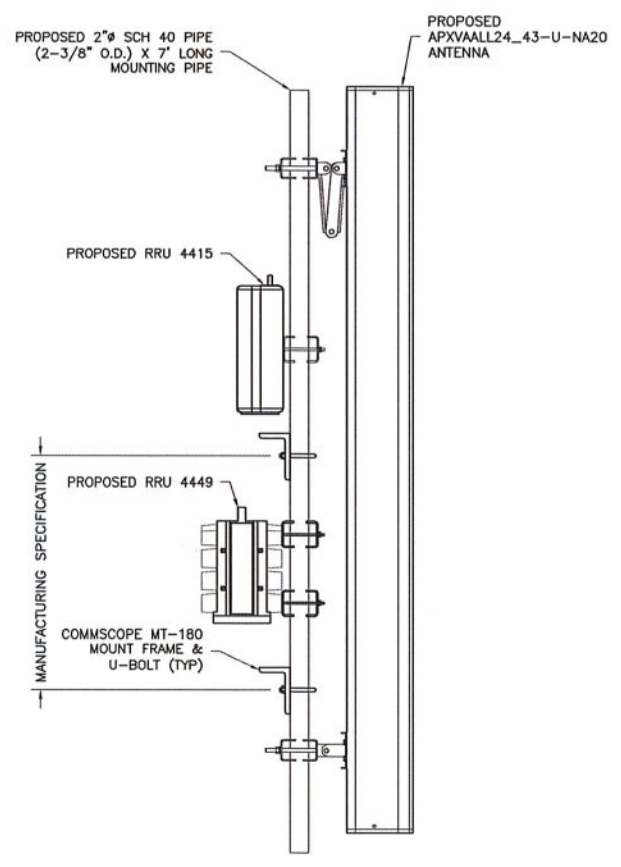
2 ERICSSON PANEL ANTENNA
NOT TO SCALE



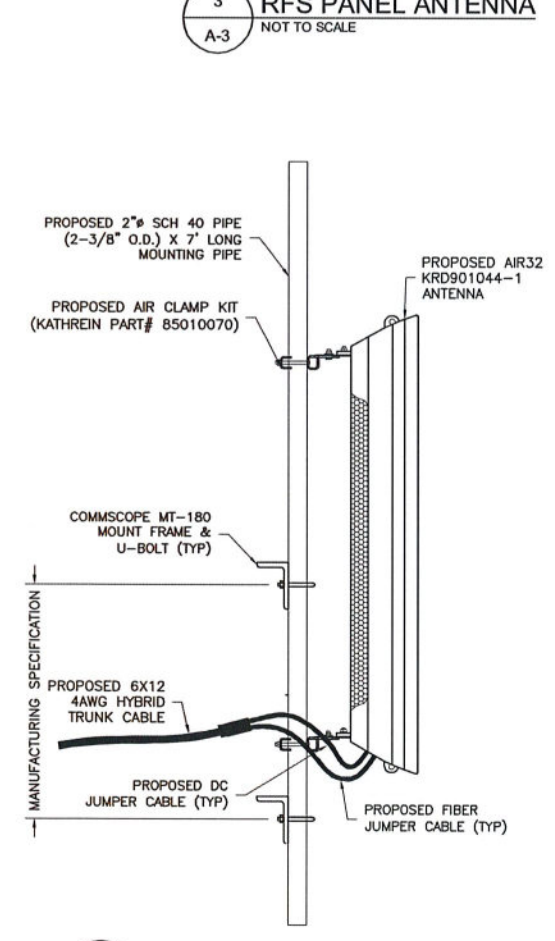
3 RFS PANEL ANTENNA
NOT TO SCALE



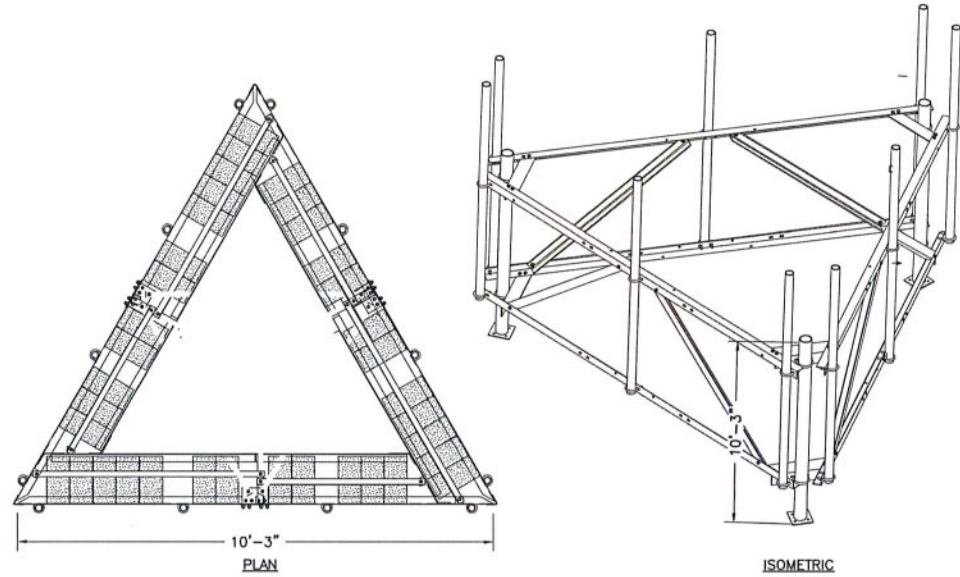
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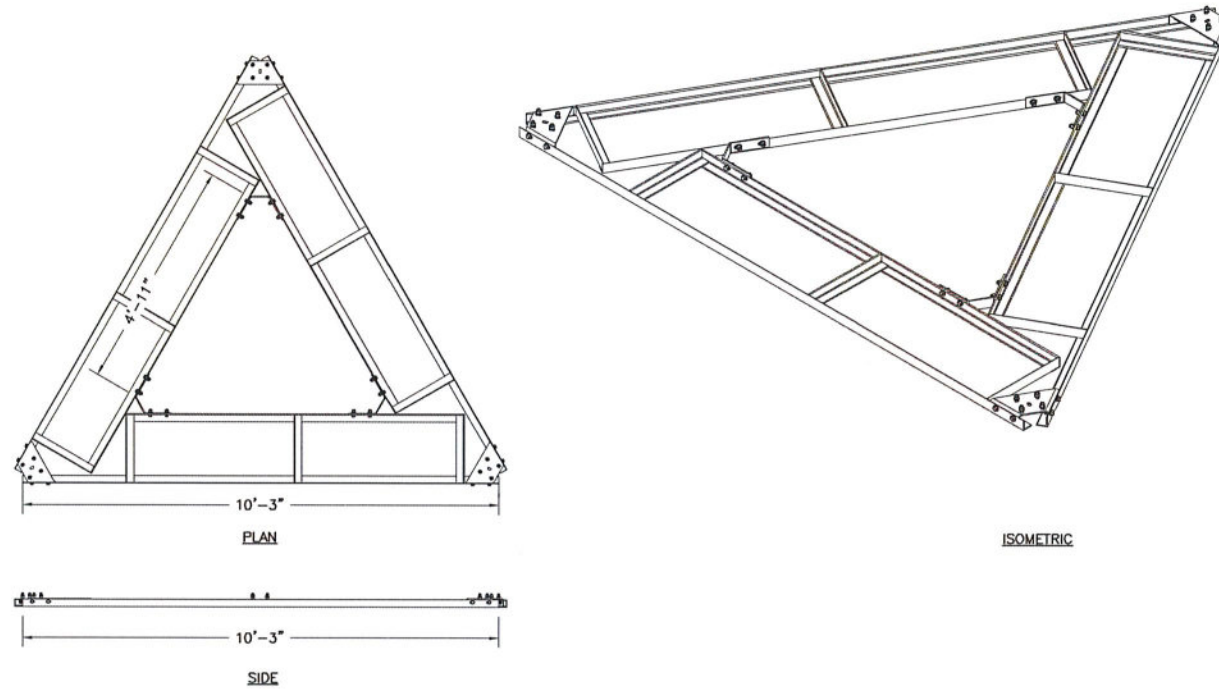
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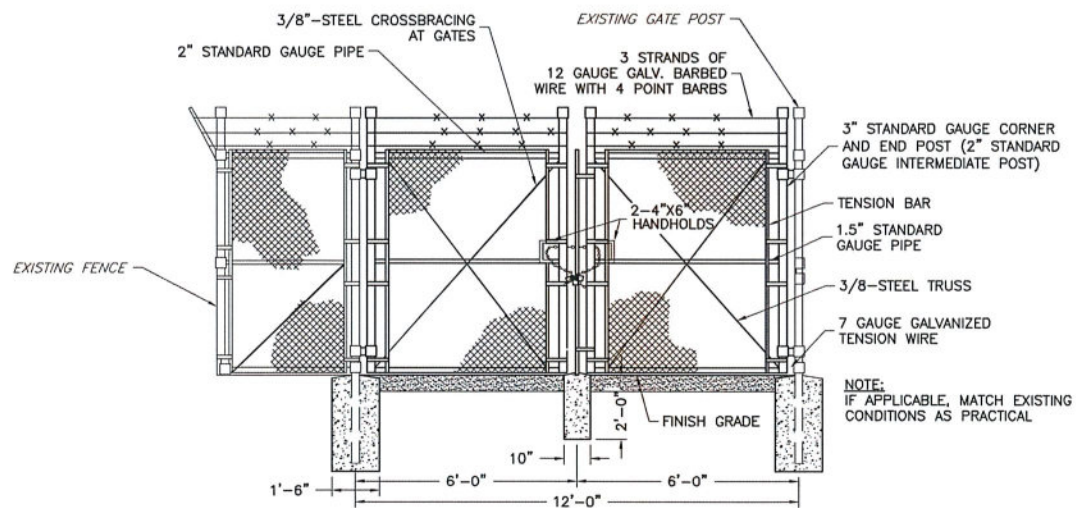
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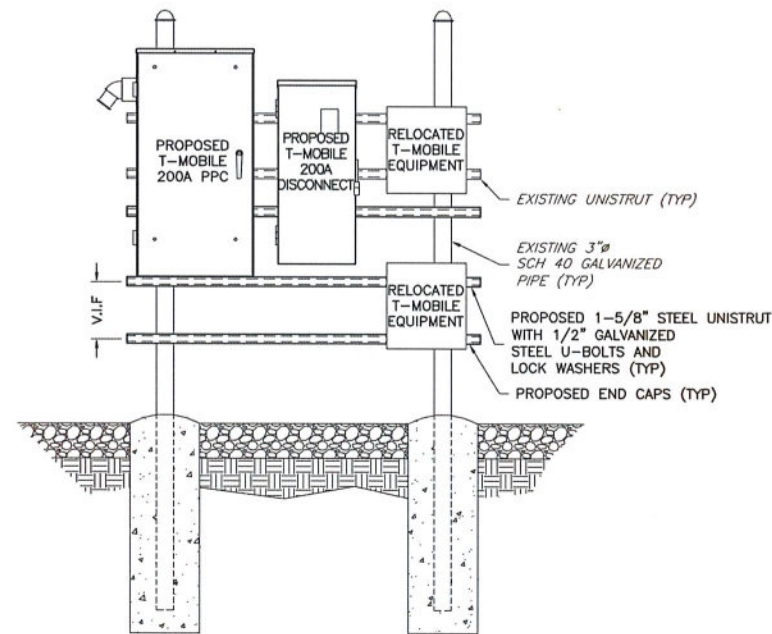
1 COMMSCOPE MT-180 NON PENETRATING SLED DETAIL
A-4 NOT TO SCALE



2 COMMSCOPE MT-181 BALLAST MOUNT DETAIL
A-4 NOT TO SCALE



3 TYPICAL FENCE AND GATE DETAIL
A-4 NTS



4 RRU H-FRAME DETAIL
A-4 NTS

ENGINEERING FIRM

NB+C
TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
1777 SENTRY PARKWAY WEST
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BLUE BELL, PA 19422
(267) 460-0122

APPLICANT

T-Mobile
T-MOBILE NORTHEAST LLC

103 MONARCH DRIVE
LIVERPOOL, NY 13088
OFFICE: (315) 265-1882

SITE INFORMATION

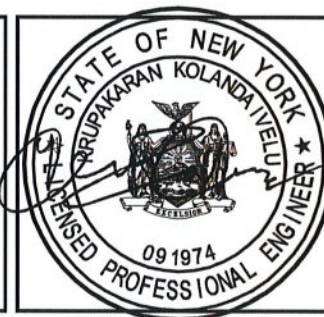
3ONS079B
EAST_GENESEE
960 SALT SPRINGS ROAD
SYRACUSE, NY 13224
CITY OF SYRACUSE
ONONDAGA COUNTY

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PROFESSIONAL STAMP



ENGINEER

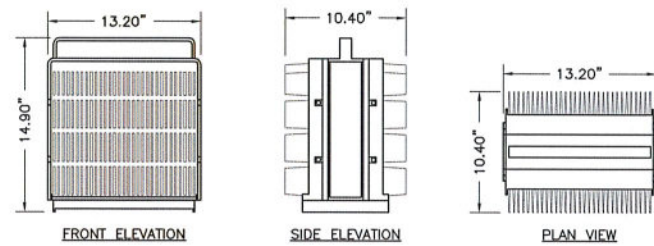
KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974

SHEET TITLE

**SLED &
GATE
DETAILS**

SHEET NUMBER

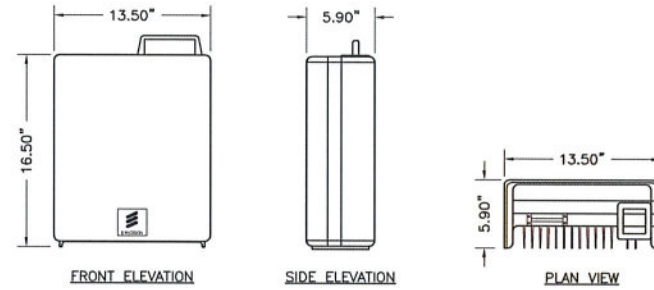
A-4



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.

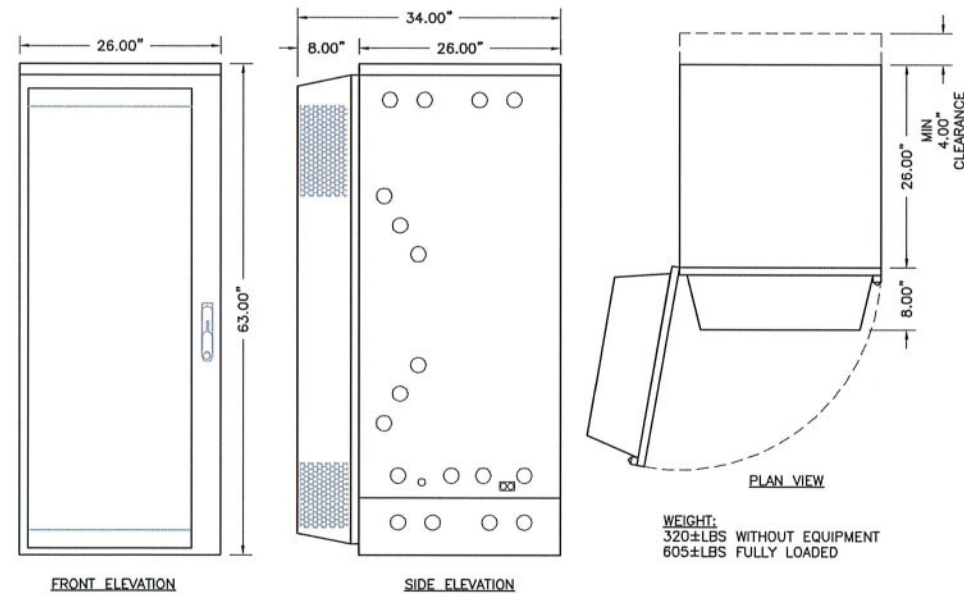
1 REMOTE RADIO UNIT (RRU)
A-5 NOT TO SCALE



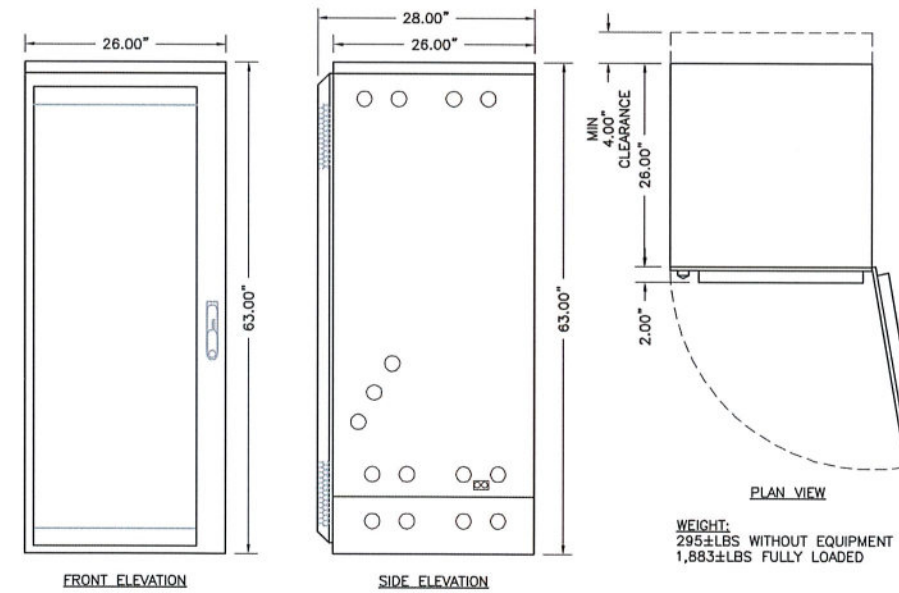
SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 4415	16.50"	13.50"	5.90"	46.00 LBS

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

2 REMOTE RADIO UNIT (RRU)
A-5 NOT TO SCALE



3 6160 ENCLOSURE CABINET
A-5 NOT TO SCALE



4 B160 BATTERY CABINET
A-5 NOT TO SCALE

ENGINEERING FIRM



NB+C ENGINEERING SERVICES, LLC.
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APPLICANT



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OFFICE: (315) 265-1882

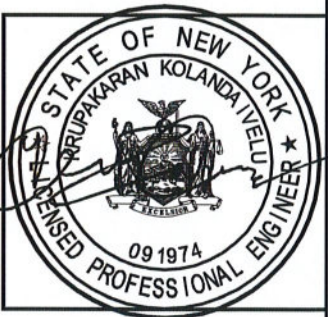
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ENGINEER

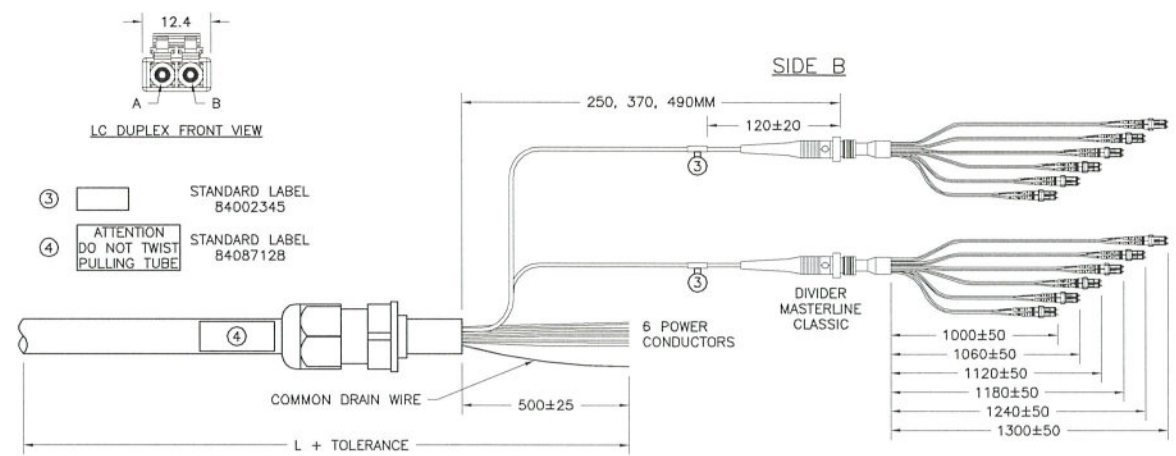
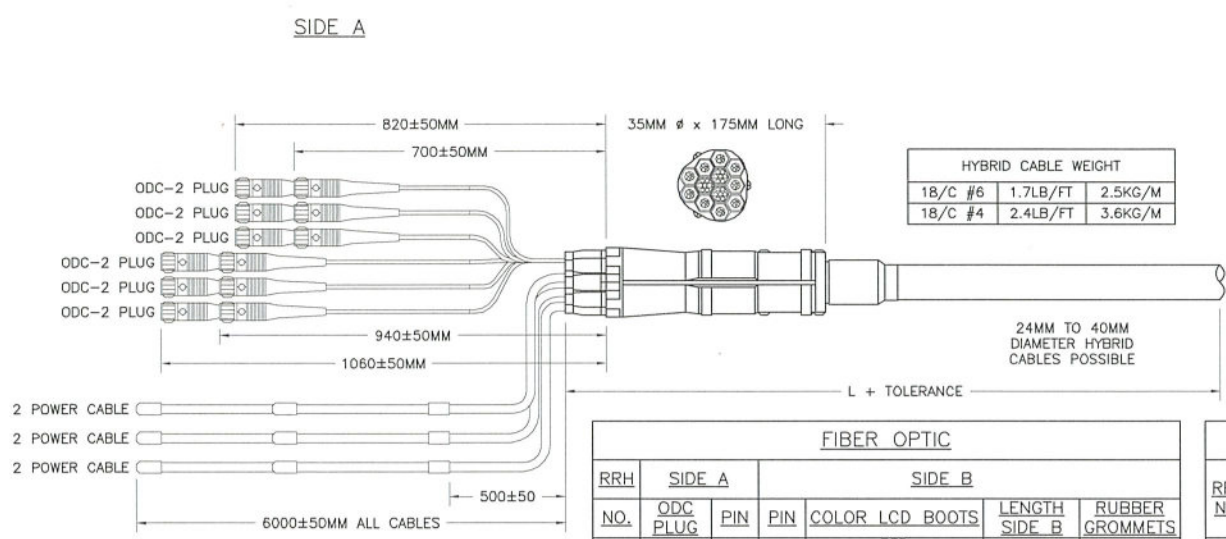
KRUPAKARAN KOLANDAIVELU, P.E.
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PROFESSIONAL ENGINEER
LICENSE #091974

SHEET TITLE

EQUIPMENT SPECIFICATIONS & DETAILS

SHEET NUMBER

A-5

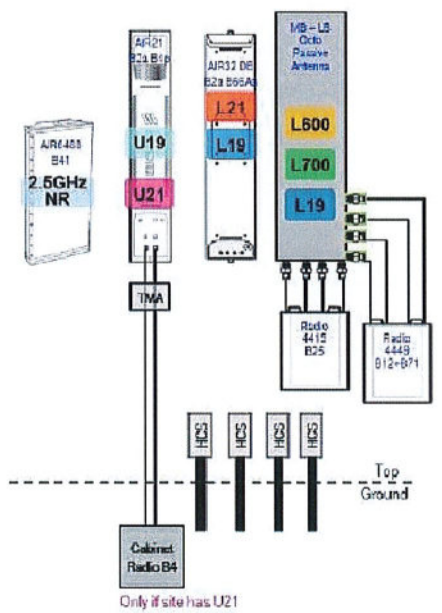
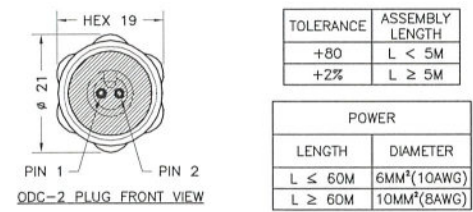


RRH NO.	SIDE A		SIDE B			
	ODC PLUG	PIN	PIN	COLOR	LENGTH SIDE B	RUBBER GROMMETS
1	ODC-2 RED	1 B	2 A	RED (SHORT BREAKOUT)	1000 ± 50	1
2	ODC-2 GREEN	1 B	2 A	GREEN	1060 ± 50	
3	ODC-2 BLUE	1 B	2 A	BLUE	1120 ± 50	1
4	ODC-2 YELLOW	1 B	2 A	RED (SHORT BREAKOUT)	1180 ± 50	
5	ODC-2 WHITE	1 B	2 A	GREEN	1240 ± 50	1
6	ODC-2 BLACK	1 B	2 A	BLUE	1300 ± 50	1

RRH NO.	REF HOOK UP	SIDE A		SIDE B
		WIRE COLOR	CABLE DESIGNATOR	WIRE COLOR
1	-48V	BLACK	RED	RED
	0V	GREY	RED	BLACK
2	-48V	BLACK	GREEN	GREEN
	0V	GREY	GREEN	WHITE
3	-48V	BLACK	BLUE	BLUE
	0V	GREY	BLUE	ORANGE

RRH NO.	REF HOOK UP	SIDE A		SIDE B
		WIRE COLOR	CABLE DESIGNATOR	WIRE COLOR
4	-48V	BLACK	RED 2X BANDS	RED
	0V	GREY	RED 2X BANDS	BLACK
5	-48V	BLACK	GREEN 2X BANDS	GREEN
	0V	GREY	GREEN 2X BANDS	WHITE
6	-48V	BLACK	BLUE 2X BANDS	BLUE
	0V	GREY	BLUE 2X BANDS	ORANGE

1 MLE HYBRID CABLE (6 POWER/12 FIBER)
A-6 NOT TO SCALE



2 67D5A997DB HYBRID ANTENNA AND CABLING SCHEMATIC
A-6 NOT TO SCALE

ENGINEERING FIRM
NB+C
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APPLICANT
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 T-MOBILE NORTHEAST LLC
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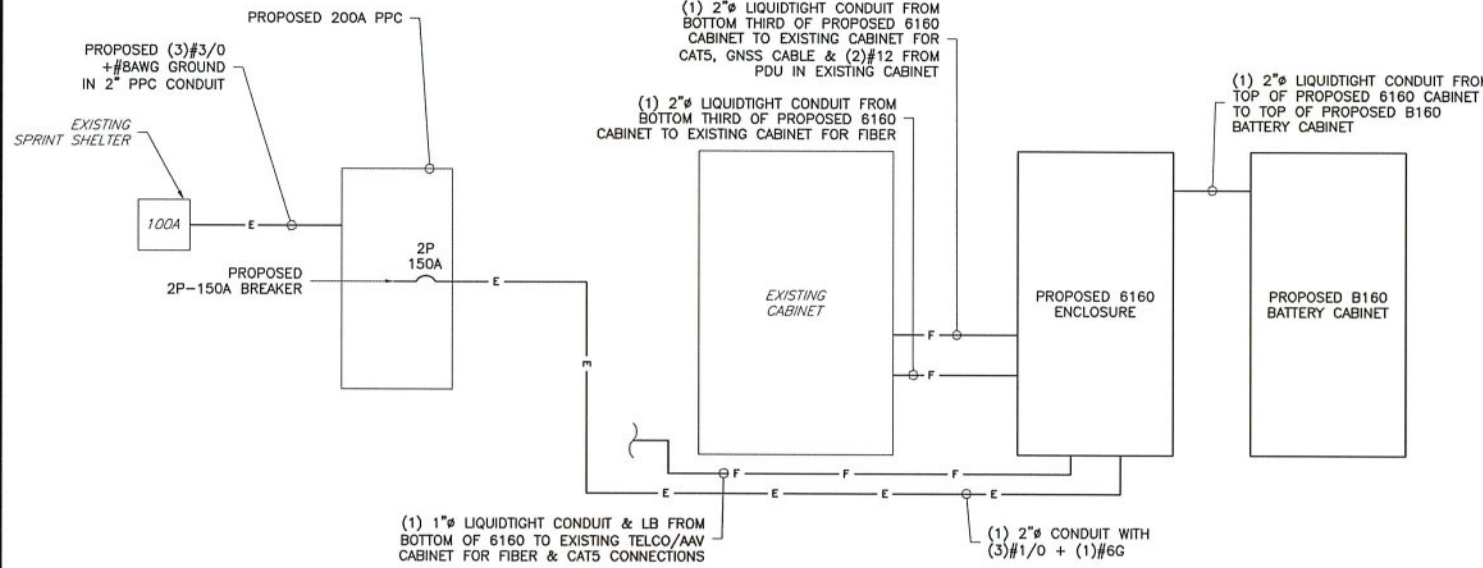
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0	10/2/20	PRELIMINARY	AP

PROFESSIONAL STAMP
 STATE OF NEW YORK
 KRUPAKARAN KOLANDAIVELU
 LICENSED PROFESSIONAL ENGINEER
 09 1974

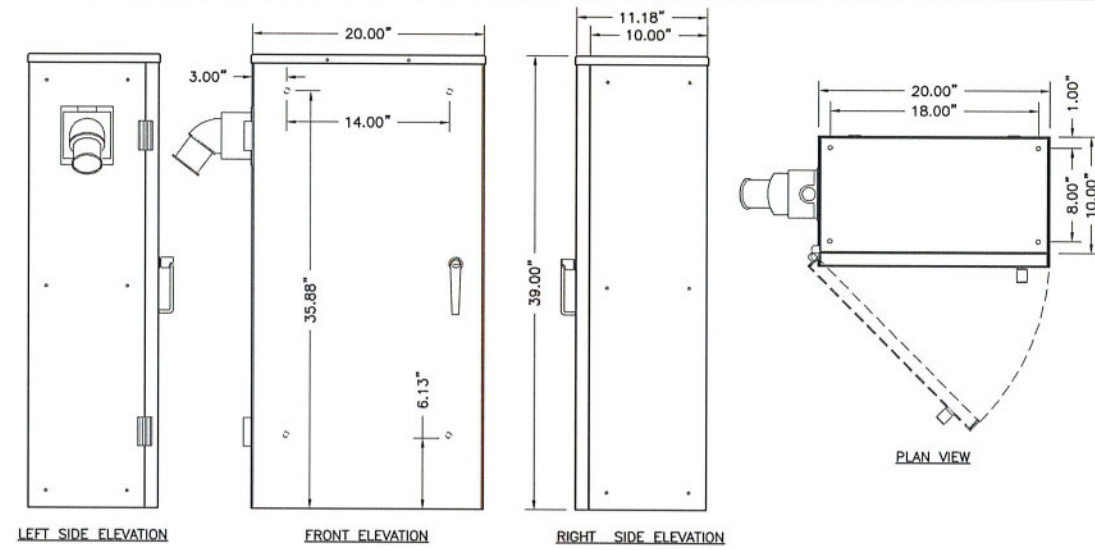
ENGINEER
 KRUPAKARAN KOLANDAIVELU, P.E.
 STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 LICENSE #091974

SHEET TITLE
CABLING DETAILS & RF PLUMBING DIAGRAM

SHEET NUMBER
A-6



1 POWER DIAGRAM
E-1 NOT TO SCALE



PPC SPECIFICATIONS:

CABINET TYPE: UL TYPE NEMA 3R

MATERIAL: 0.1" THICK ALUMINUM WITH POWDER COATING

WEIGHT: APPROXIMATELY 75 LBS

UL: LISTED TO UL 891

SERVICE: 120/240V, 1 PHASE, 3 WIRE, 200 AMP

GENERATOR RECEPTACLE: 200A CAMLOCK SINGLE POLE 45° ADAPTER

LOAD CENTER: 200A, 30 POSITION SQUARE D (TVSS)

2 VERTIV COMPACT 200A PPC
E-1 NOT TO SCALE

PROPOSED PPC PANEL													
MAIN BREAKER RATING (A):			200		SYSTEM VOLTAGE (V):				240		PHASE: 1 WIRE: 3 BRANCH CB: 24		
C K T	CIRCUIT DESCRIPTION	WATTAGE		POLE	B R K	LOAD PER PHASE		B R K	POLE	WATTAGE		CIRCUIT DESCRIPTION	C K T
		C	NC			A	B			NC	C		
1	6102 ENCLOSURE	0	9750	2	100	9930		20	60	180	0	PURCELL CABINET	2
3		0	9750				9930			180	0		4
5	6160 ENCLOSURE	0	15120	2	150	15120		20	1	0	0	GFCI	6
7		0	15120				15300			180	0		8
9		0	0			0				0	0		10
11		0	0			0				0	0		12
13		0	0			0				0	0		14
15		0	0			0				0	0		16
17		0	0			0				0	0		18
19		0	0			0				0	0		20
21		0	0			0				0	0		22
23		0	0			0				0	0		24
TOTAL LOADS PER PHASE						25050	25230						
SUBTOTAL CONTINUOUS						0	125% TOTAL CONTINUOUS (VA) 0						
SUBTOTAL NON-CONTINUOUS						50280	100% TOTAL NON-CONTINUOUS (VA) 50280						
TOTAL AMPS						209.50							
TOTAL CONNECTED LOAD (KVA)						50.28							
SPARE CAPACITY (A)						-9.50							

3 PANEL SCHEDULE
E-1 NOT TO SCALE

NOTES

*INSTALL (1) NEW 2P-150A BREAKER FOR PROPOSED 6160

**INSTALL (1) NEW 1P-20A BREAKER FOR PROPOSED 6160 GFCI

***WATTAGE SHOWN FOR EXISTING/PROPOSED EQUIPMENT CABINET(S) ARE BASED ON THE CONNECTED EQUIPMENT PER THE LATEST RFDs

****PROPOSED 200A PPC TO REPLACE EXISTING 100A DISTRIBUTION PANEL

***** REMOVED 3518 CABINET

NB+C
TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

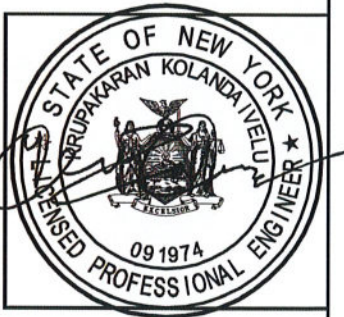
T-Mobile
T-MOBILE NORTHEAST LLC

103 MONARCH DRIVE
LIVERPOOL, NY 13088
OFFICE: (315) 265-1882

3ONS079B
EAST_GENESEE
960 SALT SPRINGS ROAD
SYRACUSE, NY 13224
CITY OF SYRACUSE
ONONDAGA COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
1	11/1/2020	ISSUED FOR PERMITTING	CMA
0	10/26/20	PRELIMINARY	AP

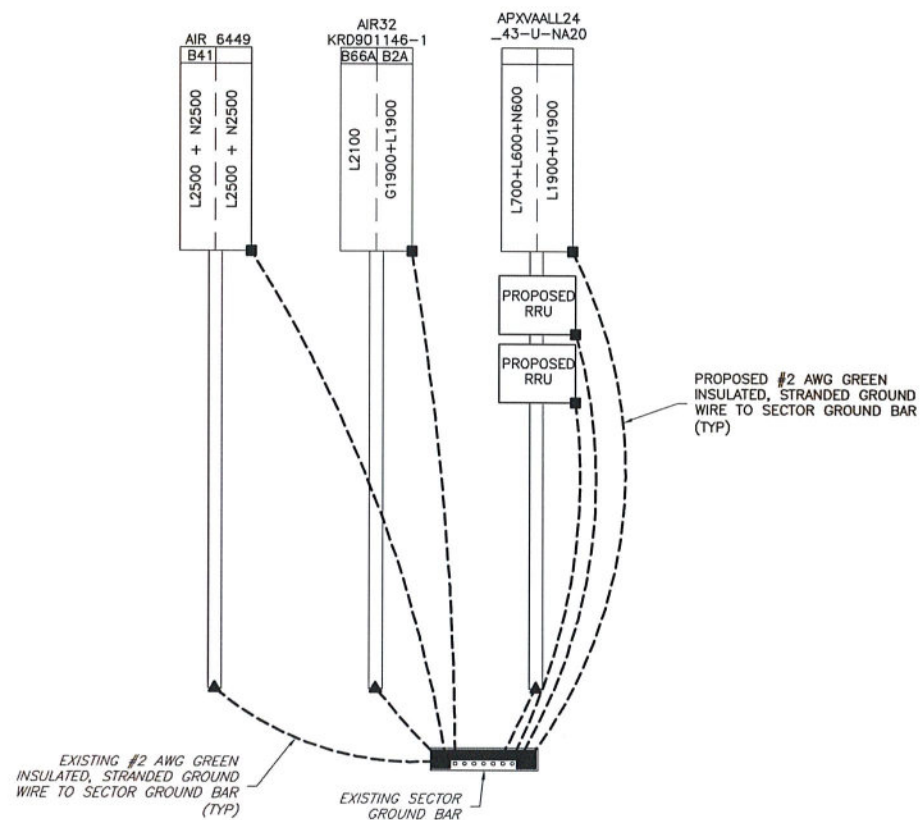


KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974

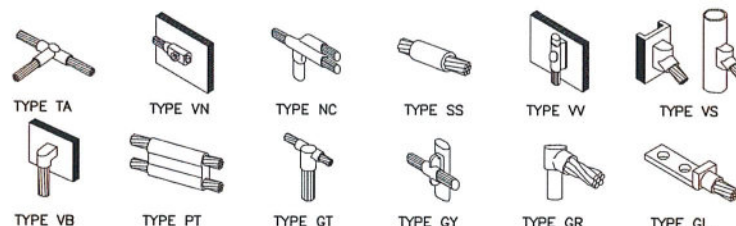
**ELECTRICAL
DETAILS**

E-1

ALPHA, BETA & GAMMA



1 ANTENNA GROUNDING DETAIL
G-1 NOT TO SCALE



2 GROUNDING CONNECTION DETAILS
G-1 NOT TO SCALE

GROUNDING LEGEND	
■	MECHANICAL COMPRESSION CONNECTION
▲	CADWELD CONNECTION
●	EXOTHERMIC WELD CONNECTION
---	PROPOSED GROUND WIRING
---	EXISTING GROUND WIRING

ENGINEERING FIRM	<p>TOTALLY COMMITTED.</p> <p>NB+C ENGINEERING SERVICES, LLC. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122</p>																
APPLICANT	<p>T-MOBILE NORTHEAST LLC</p> <p>103 MONARCH DRIVE LIVERPOOL, NY 13088 OFFICE: (315) 265-1882</p>																
SITE INFORMATION	<p>3ONS079B EAST_GENESEE 960 SALT SPRINGS ROAD SYRACUSE, NY 13224 CITY OF SYRACUSE ONONDAGA COUNTY</p>																
DESIGN RECORD	<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11/12/20</td> <td>ISSUED FOR PERMITTING</td> <td>CMA</td> </tr> <tr> <td>0</td> <td>10/26/20</td> <td>PRELIMINARY</td> <td>AP</td> </tr> </tbody> </table>	REVISIONS				REV	DATE	DESCRIPTION	BY	1	11/12/20	ISSUED FOR PERMITTING	CMA	0	10/26/20	PRELIMINARY	AP
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REV	DATE	DESCRIPTION	BY														
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0	10/26/20	PRELIMINARY	AP														
PROFESSIONAL STAMP																	
ENGINEER	<p>KRUPAKARAN KOLANDAIVELU, P.E. STATE OF NEW YORK PROFESSIONAL ENGINEER LICENSE #091974</p>																
SHEET TITLE	<p>GROUNDING DETAILS</p>																
SHEET NUMBER	<p>G-1</p>																

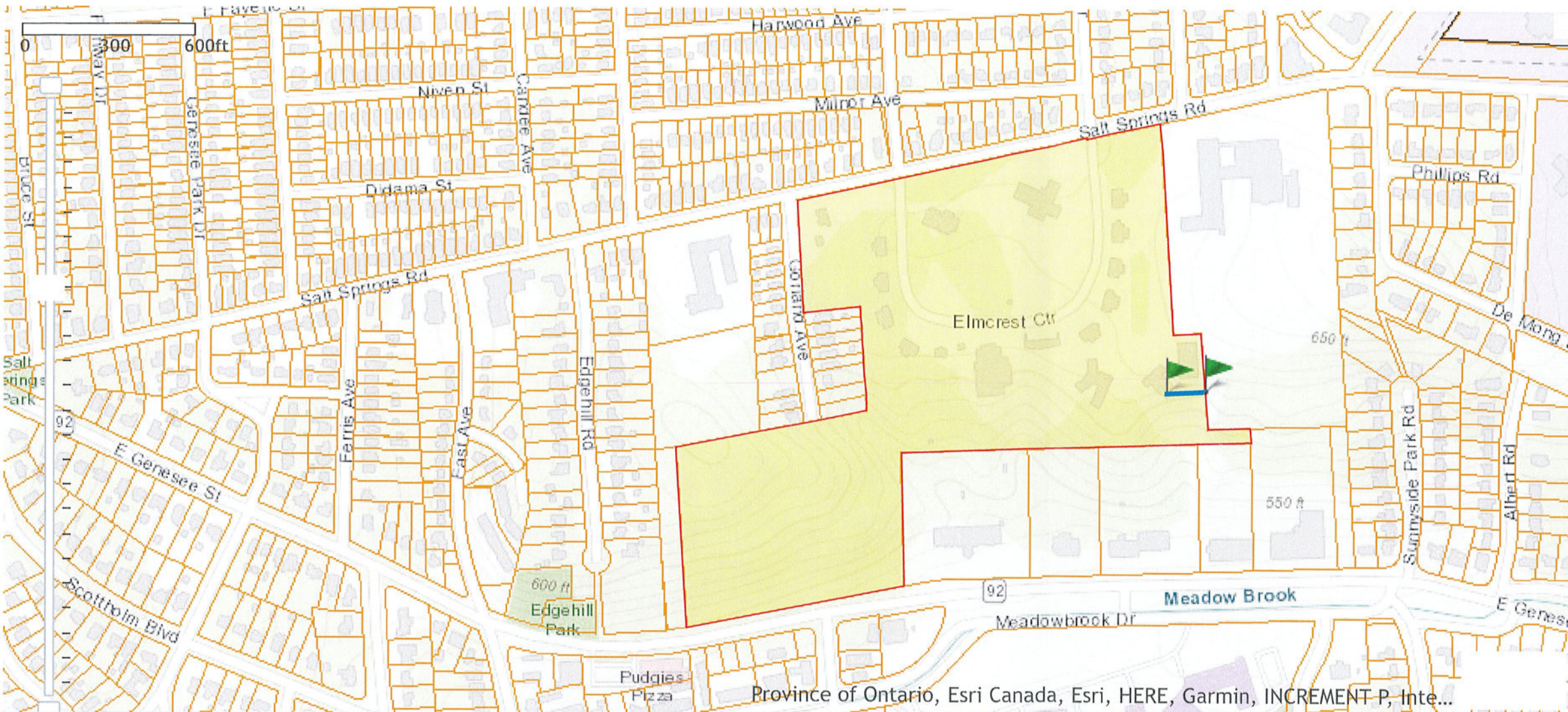


Table of Contents

Address Search

Parcel Search

Measure

Measure

Enabled:

Feet

Measurement Result

143.5 Feet

Go To

Feature Select

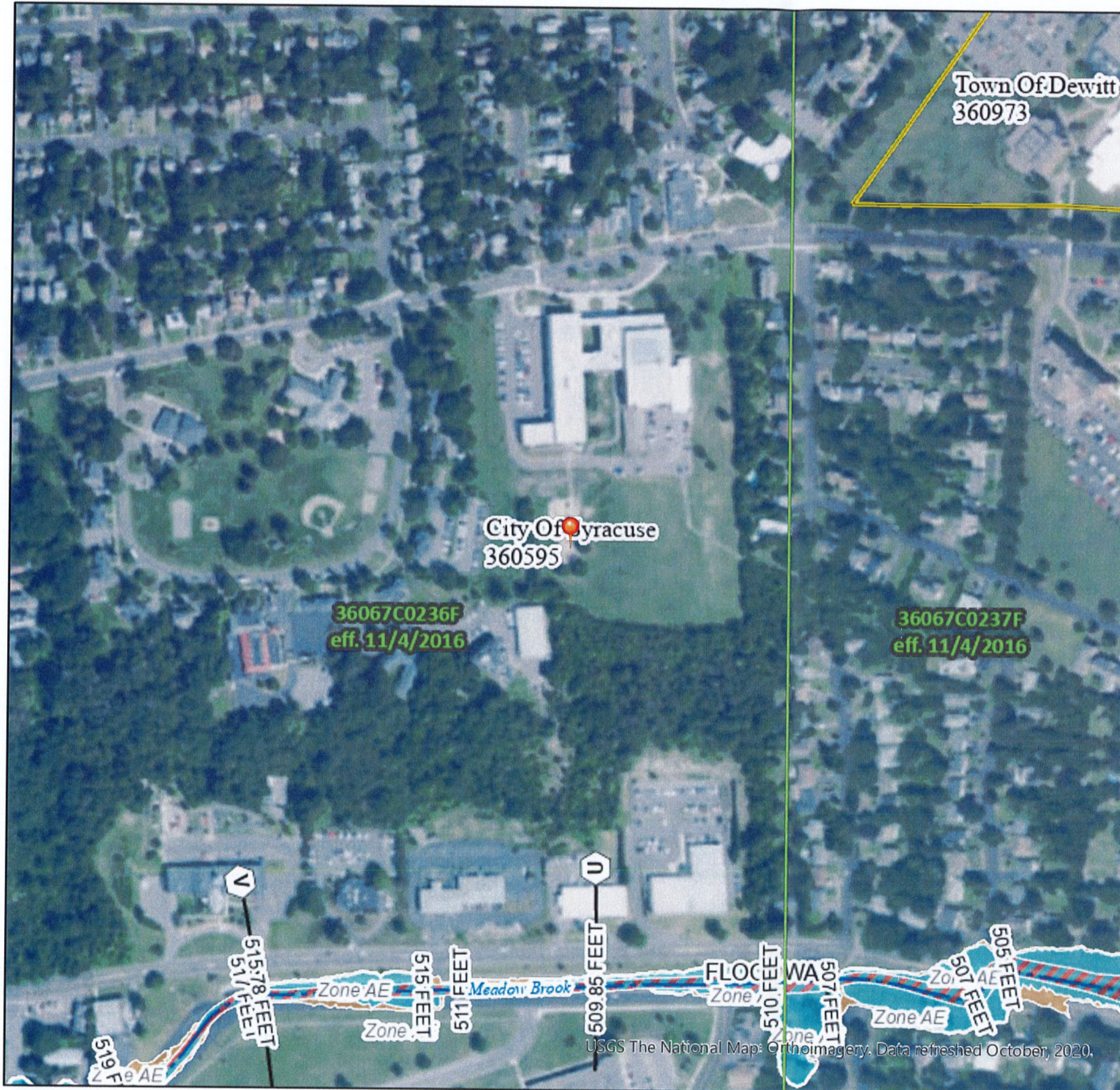
Print

Selected Tool: Measure

National Flood Hazard Layer FIRMette



76°6'3"W 43°2'57"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- | | |
|------------------------------------|--|
| SPECIAL FLOOD HAZARD AREAS | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
| | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | Effective LOMRs |
| | Area of Undetermined Flood Hazard <i>Zone D</i> |
| GENERAL STRUCTURES | Channel, Culvert, or Storm Sewer |
| | Levee, Dike, or Floodwall |
| OTHER FEATURES | Cross Sections with 1% Annual Chance Water Surface Elevation 20.2 |
| | Cross Sections with 1% Annual Chance Water Surface Elevation 17.5 |
| | Coastal Transect |
| | Base Flood Elevation Line (BFE) |
| | Limit of Study |
| | Jurisdiction Boundary |
| | Coastal Transect Baseline |
| | Profile Baseline |
| | Hydrographic Feature |
| MAP PANELS | Digital Data Available |
| | No Digital Data Available |
| | Unmapped |
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/13/2020 at 4:05 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 Feet 1:6,000 76°5'26"W 43°2'31"N

USGS The National Map: Orthoimagery. Data refreshed October, 2020.

November 16, 2020

City of Syracuse
Attn: Jeff Harrop
Office of Zoning Administration
Room 500,
201 East Washington Street
City of Syracuse, New York 13202

RE: T-Mobile Northeast LLC
Zoning Permit Application & Supporting Materials
3ONS079B – Location: Elmcrest Children’s Center
960 Salt Springs Road. Syracuse NY 13205

Dear Code Enforcement Officer,

Pursuant to our recent conversation, please see attached the following documentation as application for the Building Permit for the above-referenced site:

- (1) Zoning Application for TOWER, DISH or ANTENNA dated 11/16/2020 – signed by Property Owner: Joseph Geglia - Executive Director
- (2) Completed Short Environmental Assessment Form dated 11/16/2020
- (3) FEMA National Flood Hazard Map. Maps showing building setback (s) and Google Area Map
- (4) Sealed/stamped Construction Zoning Drawings – full size – two sets

Please feel free to contact me if you have any additional questions or concerns or wish to review additional documentation. Thank you for your time and attention to this matter.

Sincerely,



Chris McDonough
Site Acquisition Specialist

NETWORK BUILDING + CONSULTING
1777 Sentry Parkway W | Veve 17 – Suite 400 | Blue Bell, PA | 19422
M 717.947.0149 | P 267.460.0122 x2008