

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: UP50068A

SITE NAME: ROCKINGHAM PARK

T-MOBILE COVERAGE STRATEGY INSTALLATION, DESIGN 4SEC-67E5D998E 6160

30-40 SOCCERFIELD DRIVE
WAPPINGERS FALLS, NY 12590
TOWN OF WAPPINGER
DUTCHESS COUNTY

SITE INFORMATION

911 ADDRESS: 30-40 SOCCERFIELD DRIVE
WAPPINGERS FALLS, NY 12590

LATITUDE (NAD 83): 41° 34' 49.0368" N (41.580288°)
LONGITUDE (NAD 83): 73° 51' 13.59" W (-73.853775°)

GROUND ELEVATION: 235.0' (AMSL)

CONSTRUCTION TYPE: IIB
USE GROUP: U

TOWER OWNER: WIRELESS EDGE
38 WEST MARKET STREET
RHINEBECK, NY 12572

TOWER OWNER SITE ID: WEC-NY-22

TAX ACCOUNT NUMBER: 6357-01-114590

PARCEL AREA: 4.9± ACRES

PARCEL OWNER: TOWN OF WAPPINGER
20 MIDDLEBUSH RD
WAPPINGERS FALLS, NY 12590

STRUCTURE TYPE: MONOPINE

STRUCTURE HEIGHT: 120.0'

JURISDICTION: TOWN OF WAPPINGER
20 MIDDLEBUSH RD
WAPPINGERS FALLS, NY 12590

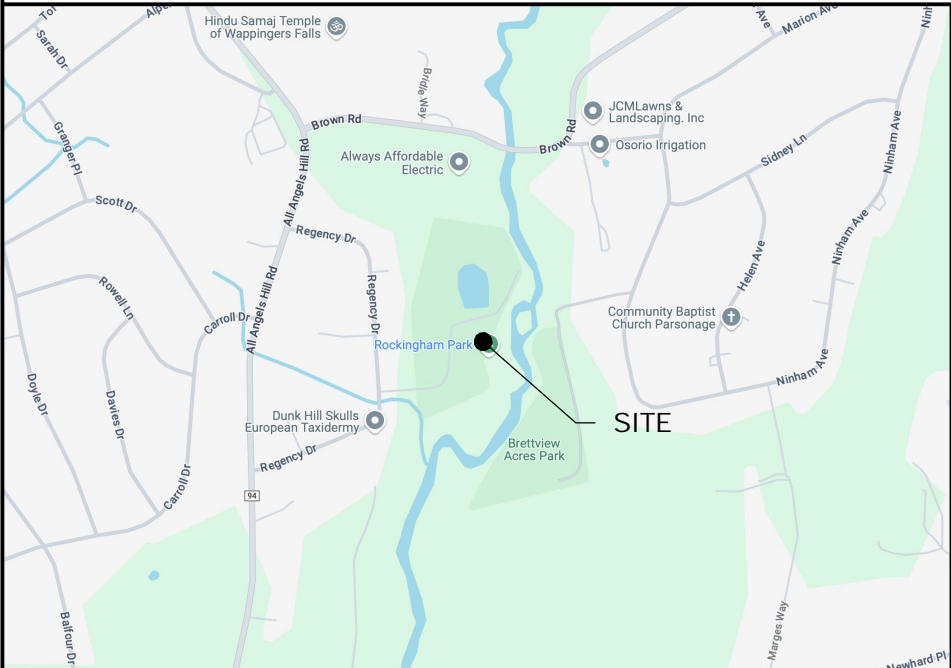
PROJECT TEAM

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: TKK ENGINEERING DPC
6095 MARSHALEE DRIVE
SUITE 300
ELKRIDGE, MD 21075
(410) 712-7092

VICINITY MAP



SCOPE OF WORK

PROJECT CONSISTS OF INSTALLING (1) PROPOSED CONCRETE PAD, (1) PROPOSED WEATHER CANOPY, (1) PROPOSED EQUIPMENT CABINET, (1) PROPOSED BATTERY CABINET, (1) PROPOSED GENERATOR, (1) PROPOSED H-FRAME, (1) PROPOSED AAV CABINET, (1) PROPOSED PPC, (1) PROPOSED AUTOMATIC TRANSFER SWITCH, (3) PROPOSED RP 6651, (1) PROPOSED CSR IXRE, (1) PROPOSED GPS ANTENNA, (1) PROPOSED CABLE BRIDGE, (4) PROPOSED FLOOD LIGHTS, (2) PROPOSED T-ARM KITS, (8) PROPOSED ANTENNAS, (8) PROPOSED RRUs, AND (4) PROPOSED 1-5/8"Ø (6X24) HYBRID CABLES TO 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.

- 2020 BUILDING CODE OF NEW YORK STATE
- NFPA 70, 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 15TH EDITION
- 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

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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

PROPERTY OWNER	DATE	APPROVED	APPROVED AS NOTED	DISAPPROVED/ REVISE
SITE ACQUISITION	DATE			
CONSTRUCTION MANAGER	DATE			
ZONING	DATE			
RF ENGINEER	DATE			

PROJECT MANAGEMENT FIRM



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ENGINEER

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PSC #123266
NY CERTIFICATION OF
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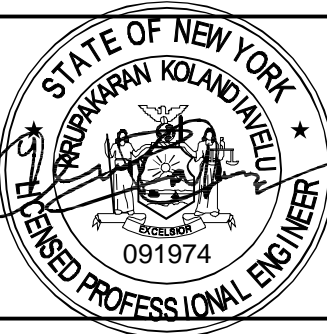
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HAMLET OF MYERS CORNER
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DESIGN RECORD

REVISIONS			
3	04/03/25	FINAL CDs	DS
2	03/05/25	REVISER PER COMMENTS	TR
1	01/13/25	REVISER PER COMMENTS	FG
0	01/08/25	PRELIMINARY	CHD
REV	DATE	DESCRIPTION	BY

PROFESSIONAL STAMP



ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974
EXPIRATION DATE:03/31/27

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

LAST PLOTTED: 04/30/2025 10:24 AM

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 OHMS 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.
8. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
9. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
10. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER’S REPRESENTATIVE.
11. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
12. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
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 REQUIRED).
17. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
18. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.

GROUNDING GUIDELINES:

ALL EQUIPMENT THAT IS INSTALLED AND MAY CAUSE ANY KIND OF ELECTRICAL CHARGE OR BUILD UP MUST HAVE PROPER AND ADEQUATE GROUNDING IN PLACE TO PREVENT FROM EQUIPMENT DAMAGE AND SHOCK HAZARDS.

COAX GROUNDS

IN LINE GROUNDS SHOULD BE INSTALLED WITH THE PROPER SIZE GROUND KITS ON ALL COAX CABLES. THE KITS ARE INSTALLED ON FRONT AND BACK OF COAX RUNS OVER APPROXIMATELY 15 FEET. ANYTHING OVER 300 FEET NEEDS AN ADDITIONAL GROUND AROUND THE 150 FOOT MARK.

SURGE ARRESTORS

IF IT HAS A PLACE FOR A GROUND – GROUND IT.

MAST PIPES

ALL MAST PIPES SHOULD BE GROUND WITH BEAR METAL ON THE PLACE THE GROUND IS ATTACHED AND THEN COLD GALVANIZATION OVER THE BARE METAL TO PREVENT RUST. THE GROUND CAN BE ATTACHED MECHANICALLY OR AN EXOTHERMIC WELD (CAD WELD) MAY BE USED. IF THE MAST PIPE IS THE TALLEST POINT ON A BUILDING IT SHOULD ALSO HAVE A LIGHTNING ROD ATTACHED TO IT AS WELL.

COMPONENTS

IF IT HAS A PLACE FOR A GROUND TO BE INSTALLED – INSTALL IT.

ANY STRUCTURE OR FRAME SHOULD HAVE 2 GROUND WIRE, I.E. MAST PIPES, OUTDOOR ENCLOSURES, SHROUDS, BUSS BAR HOME RUN TO EARTH GROUND. ALL EQUIPMENT HAS 6 TO BUSS BARS.

ALL BUSS BARS NEED TO HAVE A LINK TO AN EARTH GROUND SYSTEM AND MUST BE ISOLATED IF MOUNTED ON ANYTHING THAT MAY RETAIN AN ELECTRIC CHARGE. NO EXCEPTIONS. ALL EQUIPMENT SHOULD RUN TO BUSS BARS. LUGS ON BUSS BARS SHOULD HAVE FRONT AND BACK FLAT WASHERS SANDWICHING THE LUG(S) TO THE BAR AND NOT OVERLAPPING CAUSING IT TO HOLD OR PIN DOWN OTHER LUGS ON THE BAR. THERE SHOULD ALWAYS BE A LOCK WASHER CLOSEST TO THE NUT ON THE BOLT FOR A LUG. NEVER IS IT OK TO STACK LUGS ON TOP OF EACH OTHER. IF THERE IS NOT ENOUGH SPACE, GET A BIGGER BUSS BAR. THEY SHOULD ALL HAVE A DIRECT CONTACT TO A BUSS BAR WITH NO-OX COATED BETWEEN THE LUG AND THE BUSS BAR. ALL GROUNDS SHOULD HAVE HEAT SHRINK OVER THE LUG (UNLESS IT’S NON-JACKETED WIRE). ALL LUGS NEED TO BE CRIMPED ON SECURELY WITH THE PROPER DYE AND TOOL (NOT CHANNEL LOCK CRIMPED). THERE SHOULD BE NO MORE THAN 1/16 INCH BARE CABLE SHOWING (SHINER) BETWEEN THE JACKET AND THE LUG. INSIDE LUGS SHOULD HAVE CLEAR HEAT SHRINK TO INSPECT THE CRIMPS AND SHINERS. INSIDE LUGS SHOULD HAVE INSPECTION WINDOWS TO SHOW THE GROUND WIRE IS INSERTED INTO THE LUG ALL THE WAY AND IS PROPERLY INSTALLED. OUTDOOR LUGS MAY HAVE BLACK OR GREEN HEAT SHRINK.

STRUCTURAL NOTES

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
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
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 REQUIREMENTS.
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.

WEATHER SEAL GUIDELINES:

- BUTYL
1. PRE WRAP ALL CONNECTIONS WITH BLACK ELECTRICAL TAPE TO COVER ALL METAL SHOWING TO PREVENT DAMAGE TO CONNECTOR WHEN WEATHER SEAL IS TO BE REMOVED. 3/4 INCH OR 2 INCH TAPE CAN BE USED FOR THIS PROCESS.
2. WRAP CONNECTIONS WITH BUTYL WEATHER SEALANT WITH TWO LAYERS TO FORM A CONE LIKE SHAPE, OVER LAPPING THE LAYERS BY AT LEAST 50%. MOLD SEALANT TO PROPER SHAPE. THIS STEP IS CRUCIAL OR THE BUTYL WILL LEAK OVER TIME.
3. WRAP SEALANT WITH 2 LAYERS OF 2 INCH TAP. (YOU CAN CUT INTO STRIPS IN TIGHT AREAS). FIRST WRAP SHOULD BE PULLED SMOOTH TO MAKE FINAL WRAPS CLEAN AND CRISP. 2ND WRAP SHOULD BE PULLED TIGHTER THAN FIRST TO HOLD SEALANT INTO PROPER (CONE LIKE) SHAPE. OVER LAPPING TAPE SHOULD COVER AT LEAST 50% OF EACH LAYER OF TAPE PRIOR.
4. UPON COMPLETION OF 2 LAYERS OF 2 INCH TAPE FINALIZE WITH AT LEAST 3 LAYERS OF 3/4 INCH TAPE. EACH WRAP OF TAPE SHOULD BE PULLED TIGHTER THAN WRAP BEFORE TO SQUEEZE SEALANT INTO A MOLD AND WILL PREVENT ANY SEALANT FROM LEAKING OUT THE SIDES OVER TIME. EACH LAYER SHOULD COVER PRIOR LAYERS AT LEAST 50%.
5. OVERLAP THE TAPE 50% OF THE PREVIOUS LAYER.
6. ALWAYS FINISH THE LAST WRAP OF TAPE GOING UP TO CREATE A SHINGLING OF THE TAPE SO IN THE WEATHER ANYTHING THAT RUNS DOWN THE CABLE WILL NOT LEAK INTO THE SEALANT. CUT THE END OF THE TAPE AND LAY IT ONTO THE FINISH. DO NOT STRETCH THE END OF THE TAPE. THIS WILL CAUSE THE TAPE TO PULL OFF OVER TIME AND CREATE A FLAGGING AFFECT.

- FUSION TAPE
1. CHECK TO MAKE SURE ALL CONNECTORS ARE TORQUED TO PROPER SPECIFICATIONS BEFORE YOU BEGIN.
2. NOTE: THIS STEP DOES NOT NEED A CURTSY WRAP BECAUSE THE TAPE DOES NOT ACTUALLY ADHERE TO THE CONNECTOR ITSELF BUT BINDS TO ITSELF. ALSO KNOWN AS "SELF-AMALGAMATING TAPE."
3. WRAP CONNECTIONS FUSION TAPE SEALANT WITH TWO LAYERS TO FORM A CONE LIKE SHAPE. FUSION TAPE MUST OVER LAP AT LEAST 50% TO FORM A PROPER SEAL. COVER ALL OF THE BARE METAL SHOWING (AT LEAST 1-1/2 INCH PAST END OF CONNECTOR.)
4. IF THIS "TAPE" IS NOT PULLED TIGHT WHILE WRAPPING YOU WILL NOT CREATE A PROPER SEAL, IT MUST BE STRETCHED TO CREATE BOND TO ITSELF.
5. WRAP AT LEAST 2 LAYERS OF 3/4 INCH TAPE. EACH LAYER SHOULD COVER AT LEAST 50% OF PREVIOUS TAPE WRAP.
6. ALWAYS FINISH THE LAST WRAP OF TAPE GOING UP TO CREATE A SHINGLING OF THE TAPE SO IN THE WEATHER ANYTHING THAT RUNS DOWN THE CABLE WILL NOT LEAK INTO THE SEALANT. CUT THE END OF THE TAPE AND LAY IT ONTO THE FINISH. DO NOT STRETCH THE END OF THE TAPE. THIS WILL CAUSE THE TAPE TO PULL OFF OVER TIME AND CREATE A FLAGGING AFFECT.

- HEAT SHRINK
1. PRE WRAP ALL CONNECTIONS WITH BLACK ELECTRICAL TAPE TO COVER ALL METAL SHOWING TO PREVENT DAMAGE TO CONNECTOR WHEN WEATHER SEAL IS TO BE REMOVED. 3/4 INCH OR 2 INCH TAPE CAN BE USED FOR THIS PROCESS.
2. USE ONLY OUTDOOR RATED HEAT SHRINK THAT HAS THE SELF-ADHESIVE WHEN HEATED PROPERLY. THIS IS WHAT WILL CREATE THE SEAL TO THE CONNECTOR.
3. MAKE SURE HEAT SHRINK COVERS ALL OF THE COUPLERS AND CONNECTIONS. HEAT THE HEAT SHRINK TO SHRINK TIGHTLY TO THE CONNECTIONS AND CABLE. MAKE SURE THE HEAT SHRINK IS SEALED TOP AND BOTTOM OF THE CONNECTIONS. ALSO CHECK TO MAKE SURE HEAT SHRINK WAS NOT OVER HEATED AND THERE ARE NO BREAKS IN SEAL THROUGH-OUT THE SHRINK TUBING.

PROJECT MANAGEMENT FIRM

ENGINEER

APPLICANT

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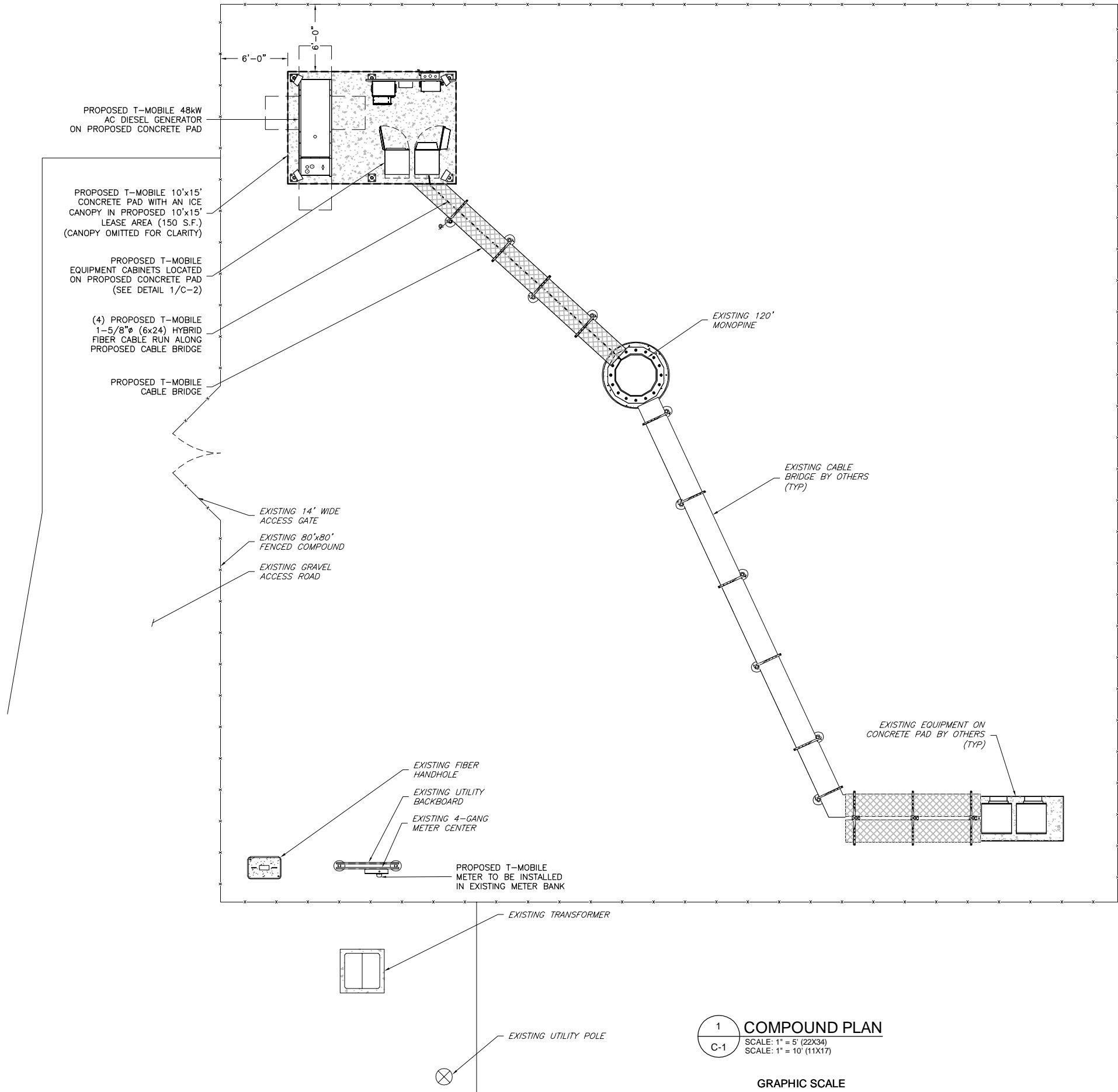
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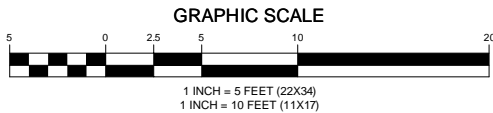
GENERAL
NOTES

GN-1

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



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

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103 MONARCH DRIVE
LIVERPOOL, NY 13088

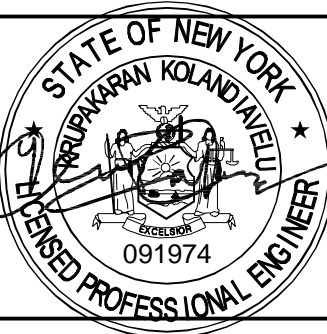
SITE INFORMATION

UP50068A
ROCKINGHAM PARK
30-40 SOCCERFIELD DRIVE
WAPPINGERS FALLS, NY 12590
HAMLET OF MYERS CORNER
DUTCHESS COUNTY

DESIGN RECORD

REVISIONS			
REV	DATE	DESCRIPTION	BY
3	0403/25	FINAL CDs	DS
2	0305/25	REVISER PER COMMENTS	TR
1	01/13/25	REVISER PER COMMENTS	FG
0	01/08/25	PRELIMINARY	CHD

PROFESSIONAL STAMP



ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974
EXPIRATION DATE: 03/31/27

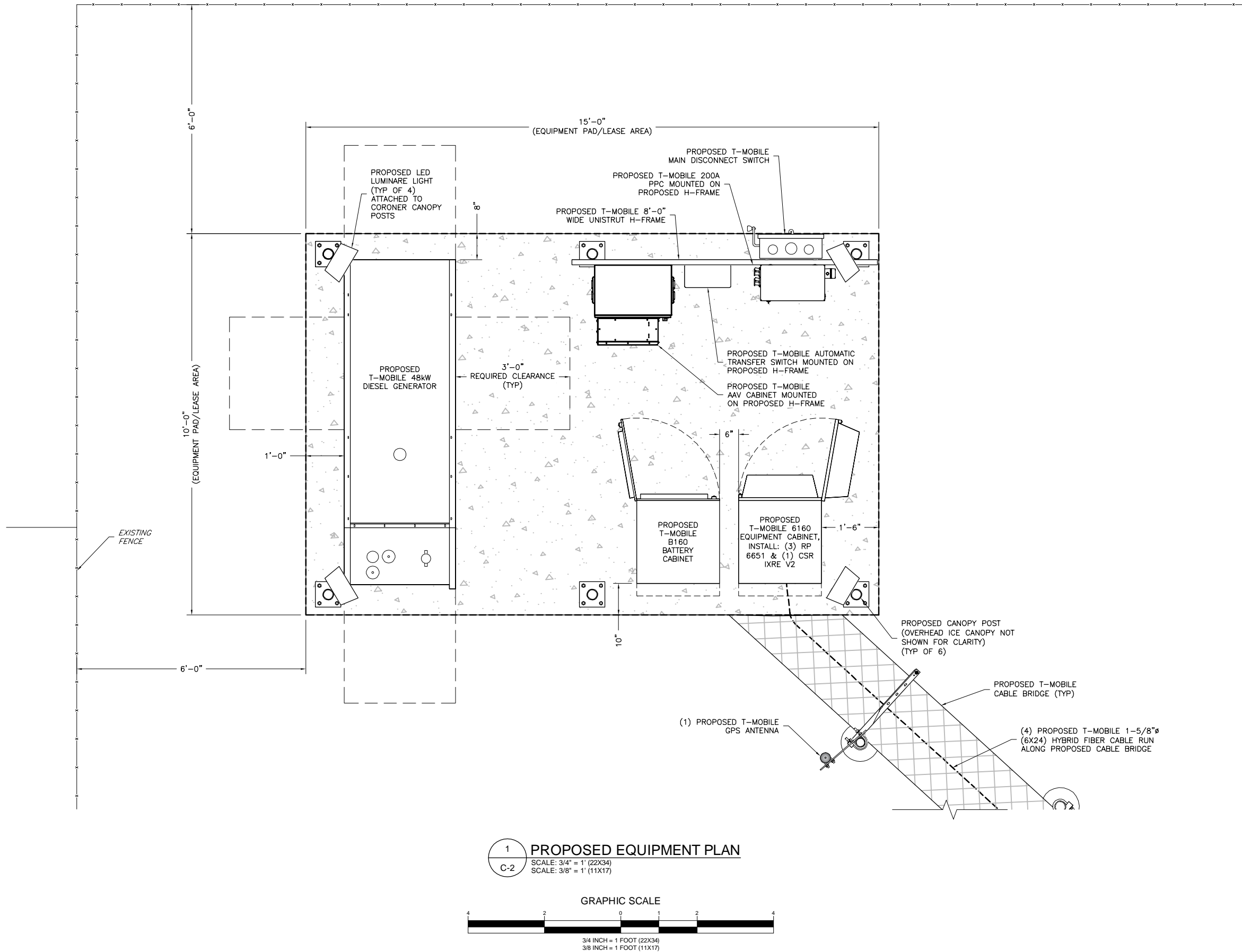
SHEET TITLE

COMPOUND
PLAN

SHEET NUMBER

C-1

LAST PLOTTED: 04/30/2025 10:24 AM



PROJECT MANAGEMENT FIRM



1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

ENGINEER

TKK ENGINEERING DPC
PSC #123266
NY CERTIFICATION OF
AUTHORIZATION NO. 020084
6095 MARSHALLEE DRIVE, SUITE 300
ELK RIDGE, MD 21075
410-712-7092

APPLICANT

T-Mobile
T-MOBILE NORTHEAST LLC
103 MONARCH DRIVE
LIVERPOOL, NY 13088

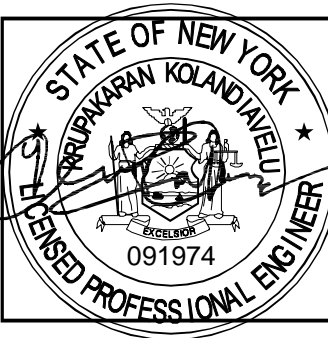
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ROCKINGHAM PARK
30-40 SOCCERFIELD DRIVE
WAPPINGERS FALLS, NY 12590
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DUTCHESS COUNTY

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PROFESSIONAL STAMP



ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974
EXPIRATION DATE: 03/31/27

SHEET TITLE

EQUIPMENT
PLAN

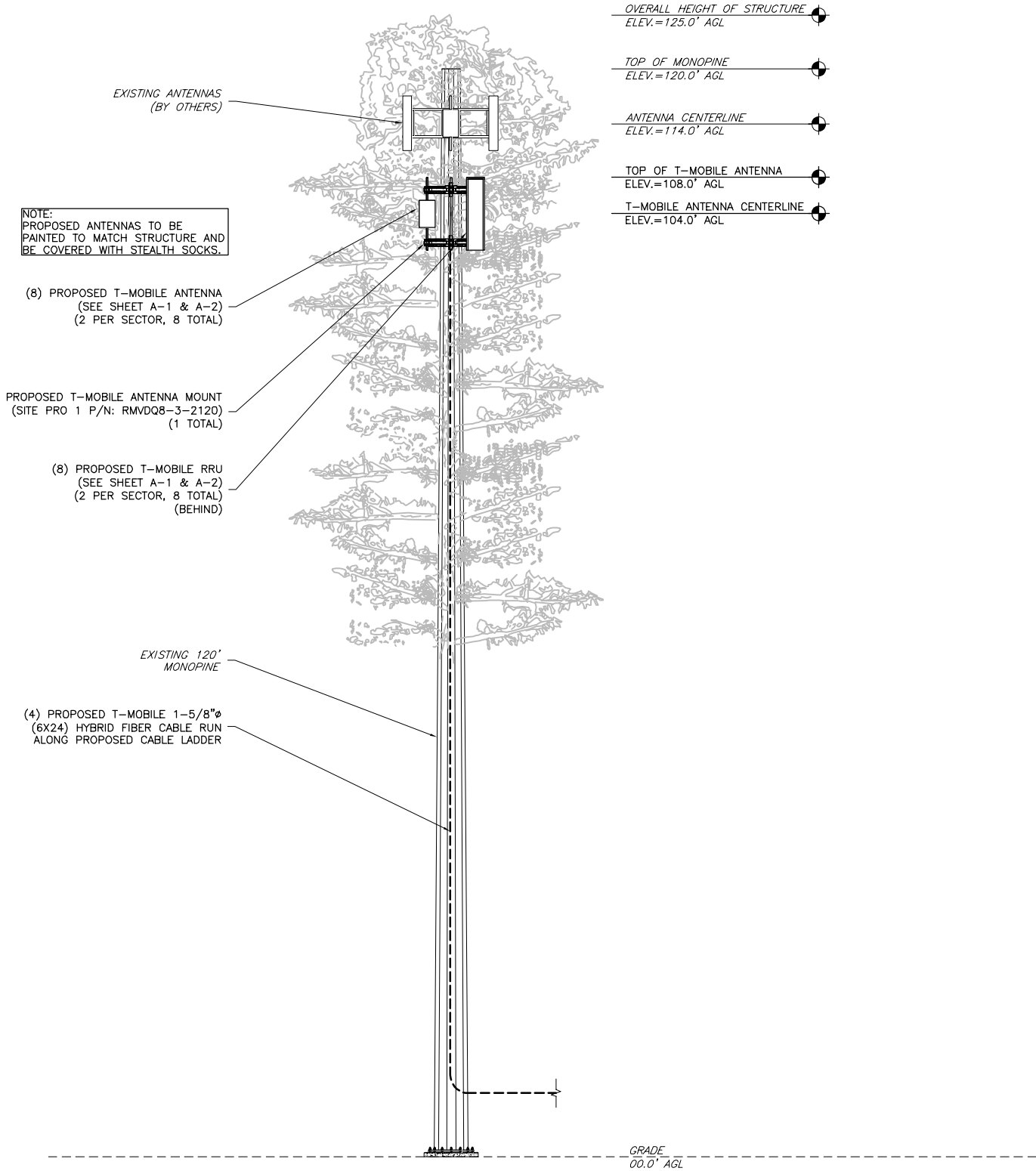
SHEET NUMBER

C-2

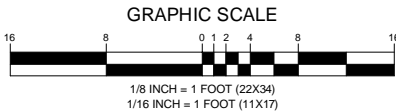
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GENERAL ANTENNA NOTES

- ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH RF ENGINEER.
- ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'.
- 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.
- A STRUCTURAL ANALYSIS REPORT HAS BEEN ISSUED BY PAUL J. FORD & COMPANY, DATED 03/31/25 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.
- A MOUNT ANALYSIS REPORT HAS BEEN ISSUED BY TKK ENGINEERING DPC, DATED 03/05/25 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.

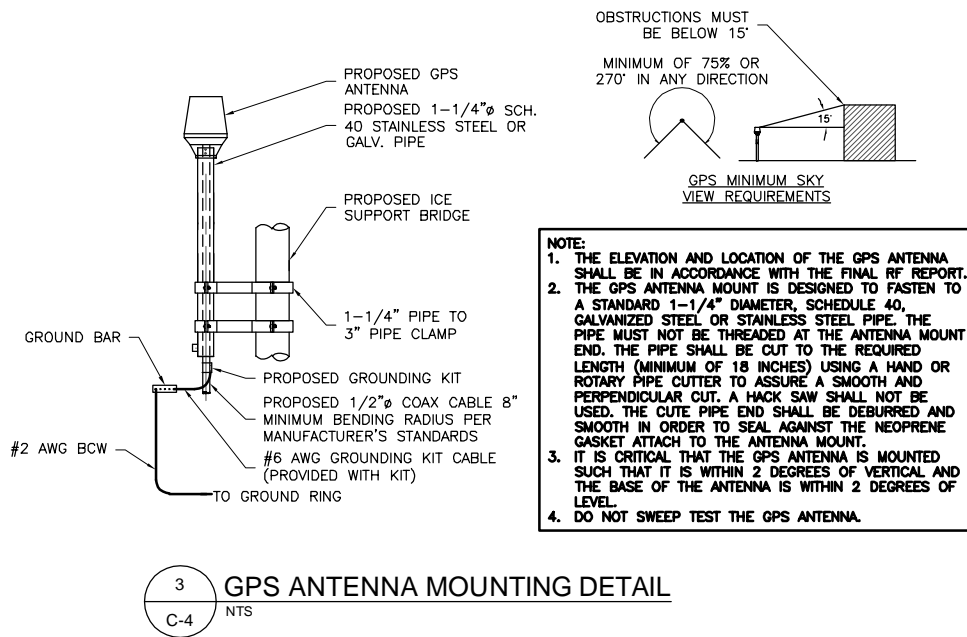
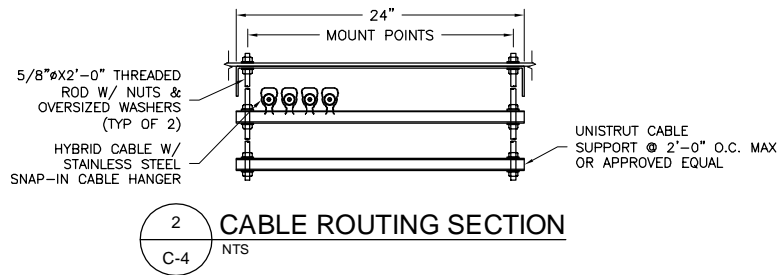
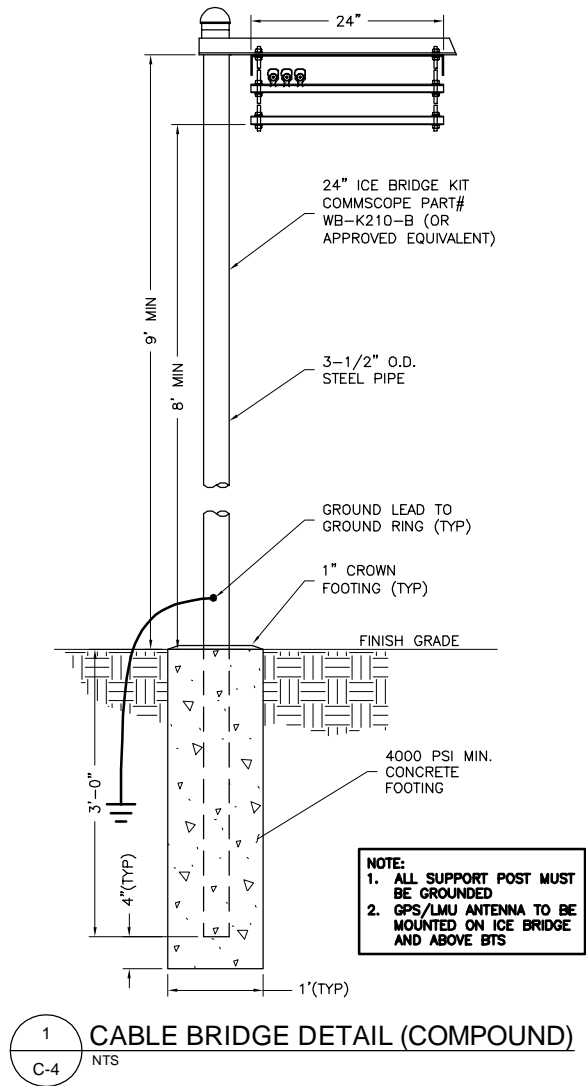


1 PROPOSED ELEVATION
C-3
SCALE: 1/8" = 1' (22X34)
SCALE: 1/16" = 1' (11X17)



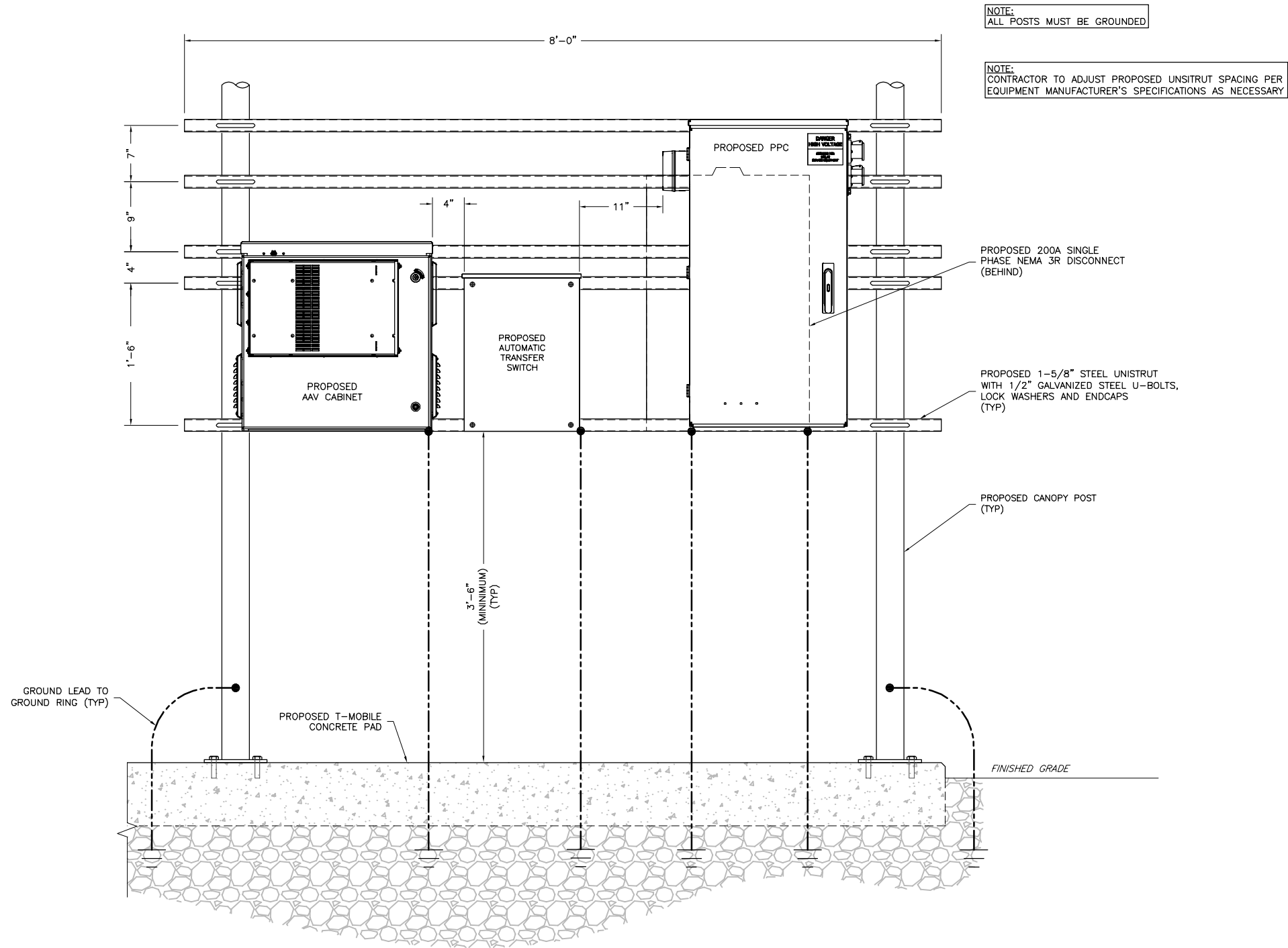
PROJECT MANAGEMENT FIRM	 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122																								
ENGINEER	TKK ENGINEERING DPC PSC #123266 NY CERTIFICATION OF AUTHORIZATION NO. 020084 6096 MARSHALLEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 410-712-7092																								
APPLICANT	 T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088																								
SITE INFORMATION	UP50068A ROCKINGHAM PARK 30-40 SOCCERFIELD DRIVE WAPPINGERS FALLS, NY 12590 HAMLET OF MYERS CORNER DUTCHESS COUNTY																								
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ENGINEER	KRUPAKARAN KOLANDAIVELU, P.E. STATE OF NEW YORK PROFESSIONAL ENGINEER LICENSE #091974 EXPIRATION DATE:03/31/27																								
SHEET TITLE	PROPOSED ELEVATION																								
SHEET NUMBER	C-3																								

LAST PLOTTED: 04/30/2025 10:24 AM



PROJECT MANAGEMENT FIRM	<div>NB+C TOTALLY COMMITTED.</div> <div>1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122</div>																																
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APPLICANT	<div>T-Mobile T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088</div>																																
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SHEET TITLE	<div>CABLE BRIDGE & GPS DETAILS</div>																																
SHEET NUMBER	<div>C-4</div>																																

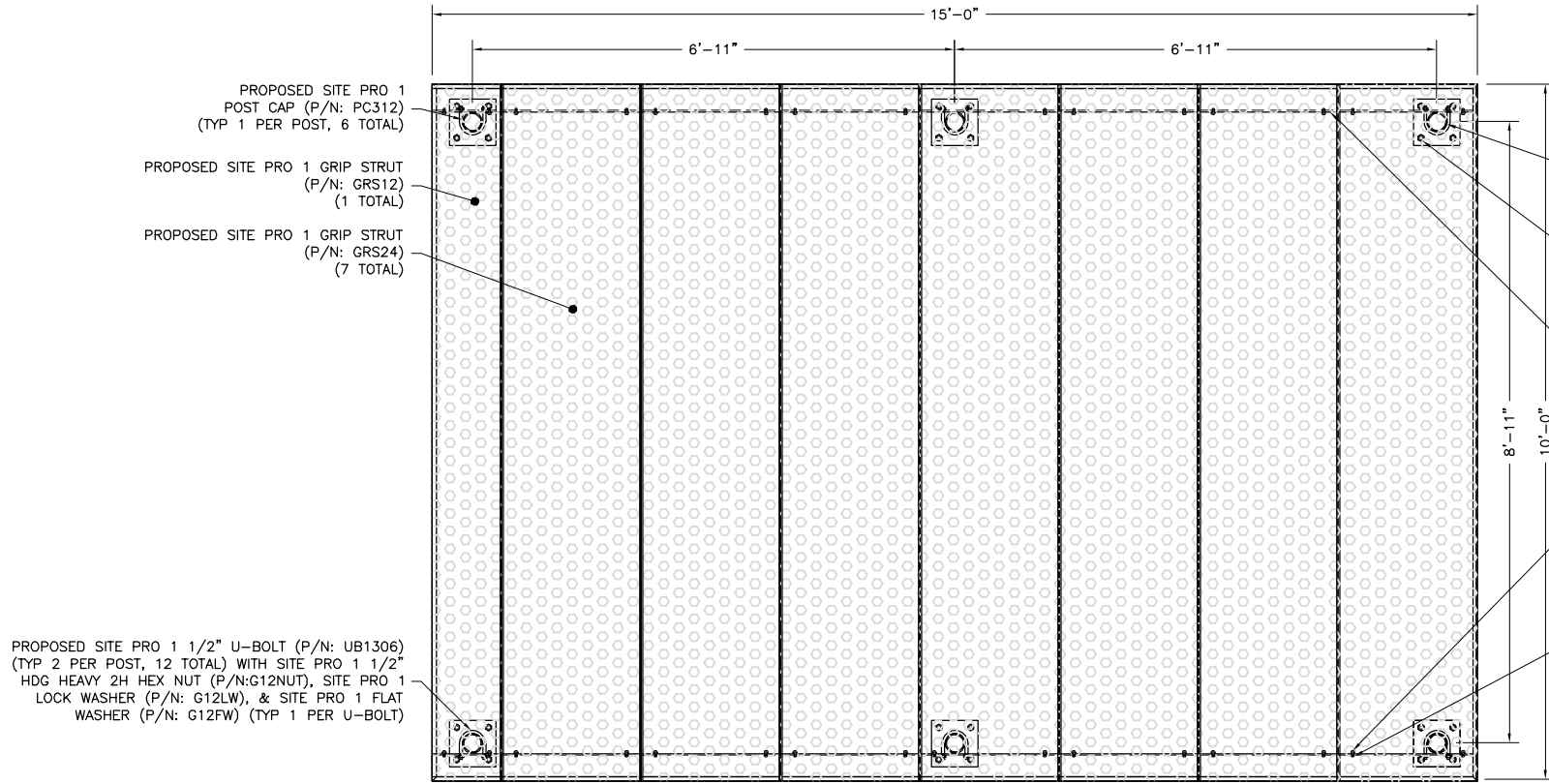
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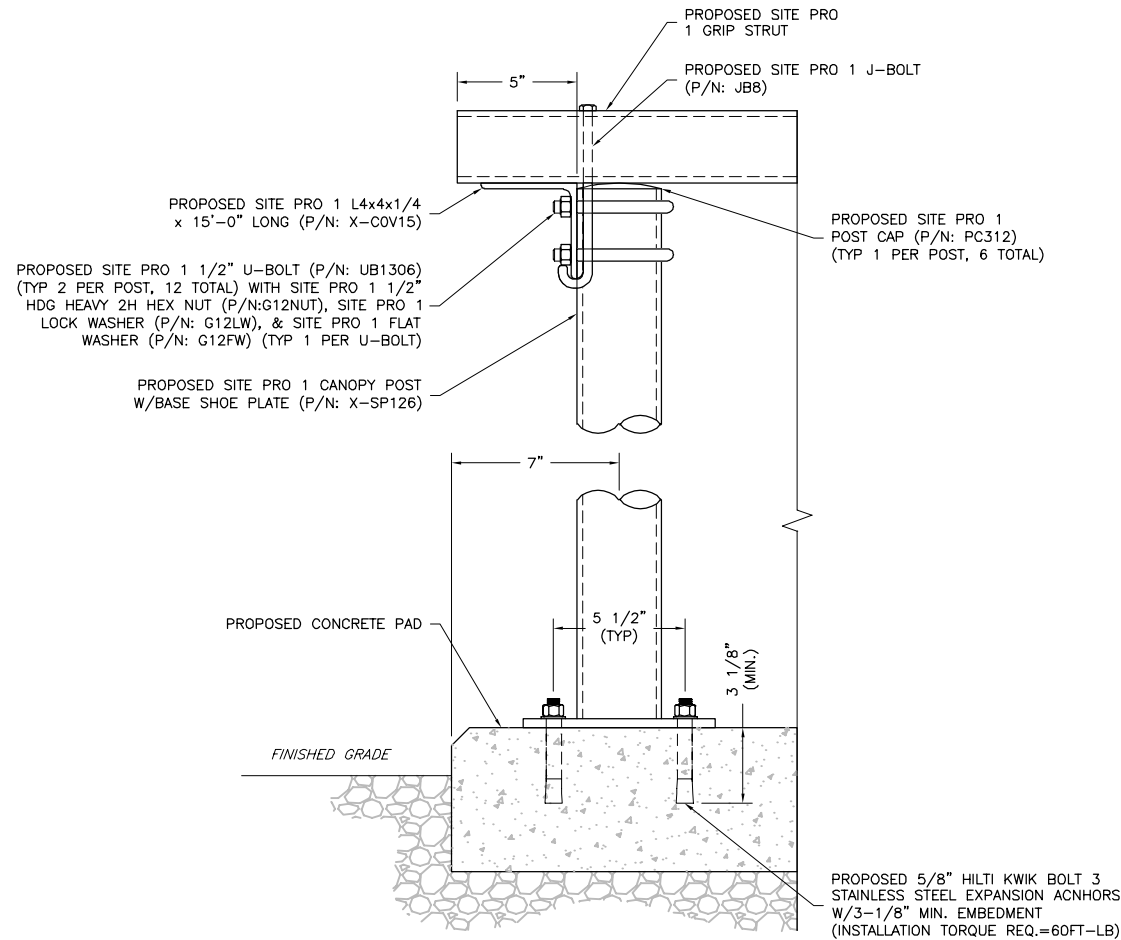
1 PROPOSED H-FRAME DETAIL
C-5 NTS

PROJECT MANAGEMENT FIRM	<div>NB+C TOTALLY COMMITTED. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122</div>																								
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SHEET NUMBER	<div>C-5</div>																								

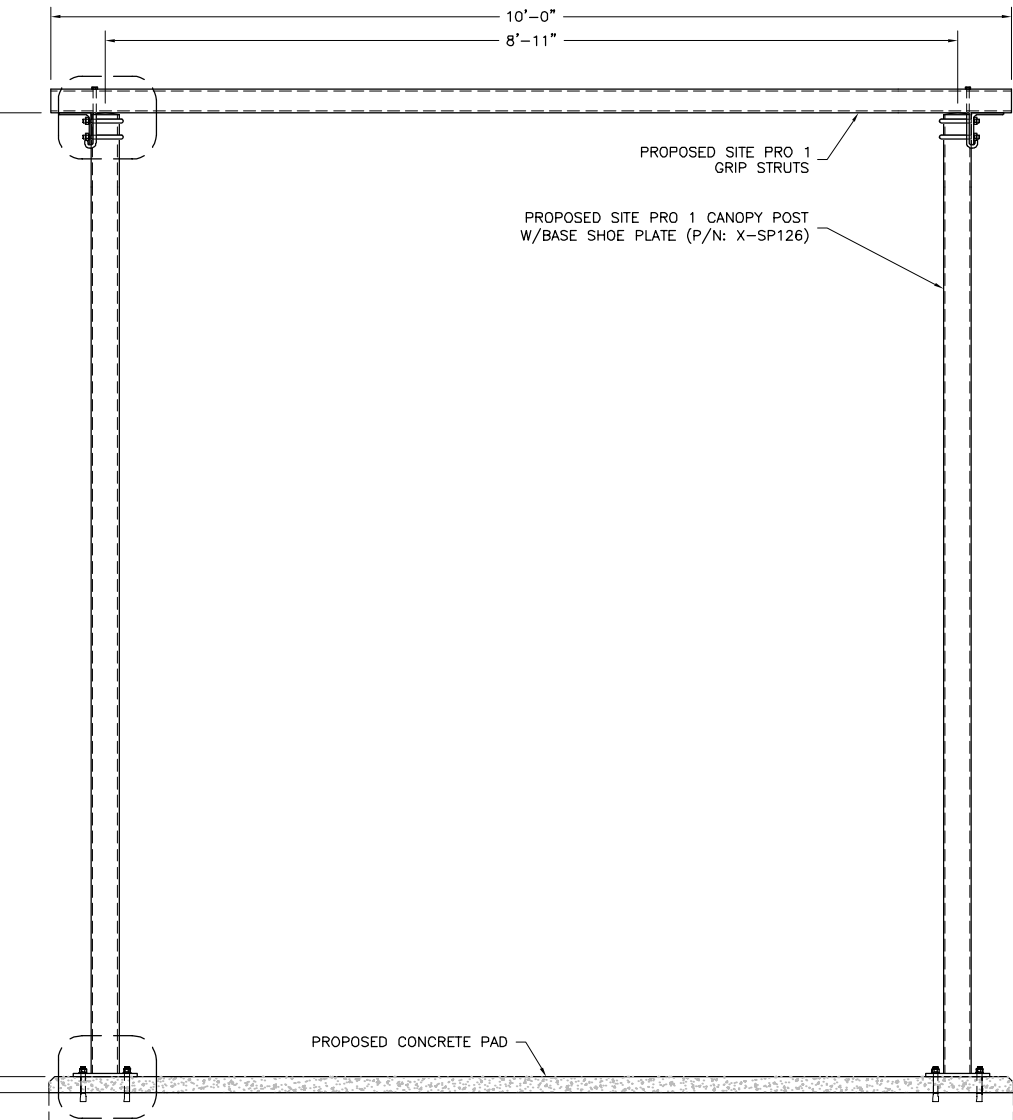
LAST PLOTTED: 04/30/2025 10:24 AM



1
C-6 CANOPY PLAN
NOT TO SCALE



2
C-6 CANOPY CONNECTION DETAIL
NOT TO SCALE



3
C-6 CANOPY ELEVATION
NOT TO SCALE

PROJECT MANAGEMENT FIRM	NB+C TOTALLY COMMITTED. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122																								
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SHEET TITLE	CANOPY DETAILS																								
SHEET NUMBER	C-6																								

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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	L700 N600 L600	L700 N600 L600	N1900 L2100 L1900 N2100	N1900 L2100 L1900 N2100	ERICSSON	840590966	95.90"x23.50"x7.10"	104'	10'	-	0'	(1) PROPOSED RRU 4480 B71+B85 (1) PROPOSED RRU 4460 B25+B66	-	(1) PROPOSED 1-5/8"ø (6x24) HYBRID CABLE	160'± (±48.77m)
A2	OPEN	-				-	-	-	-	-	-	-	-	-		
A3	PROPOSED	N2500		N2500		ERICSSON	AIR6419_B41	34.49"x19.92"x7.99"	104'	10'	-	0'	-	-		
B1	PROPOSED	L700 N600 L600	L700 N600 L600	N1900 L2100 L1900 N2100	N1900 L2100 L1900 N2100	ERICSSON	840590966	95.90"x23.50"x7.10"	104'	100'	-	0'	(1) PROPOSED RRU 4480 B71+B85 (1) PROPOSED RRU 4460 B25+B66	-	(1) PROPOSED 1-5/8"ø (6x24) HYBRID CABLE	160'± (±48.77m)
B2	OPEN	-				-	-	-	-	-	-	-	-	-		
B3	PROPOSED	N2500		N2500		ERICSSON	AIR6419_B41	34.49"x19.92"x7.99"	104'	100'	-	0'	-	-		
C1	PROPOSED	L700 N600 L600	L700 N600 L600	N1900 L2100 L1900 N2100	N1900 L2100 L1900 N2100	ERICSSON	840590966	95.90"x23.50"x7.10"	104'	190'	-	0'	(1) PROPOSED RRU 4480 B71+B85 (1) PROPOSED RRU 4460 B25+B66	-	(1) PROPOSED 1-5/8"ø (6x24) HYBRID CABLE	160'± (±48.77m)
C2	OPEN	-				-	-	-	-	-	-	-	-	-		
C3	PROPOSED	N2500		N2500		ERICSSON	AIR6419_B41	34.49"x19.92"x7.99"	104'	190'	-	0'	-	-		
D1	PROPOSED	L700 N600 L600	L700 N600 L600	N1900 L2100 L1900 N2100	N1900 L2100 L1900 N2100	ERICSSON	840590966	95.90"x23.50"x7.10"	104'	280'	-	0'	(1) PROPOSED RRU 4480 B71+B85 (1) PROPOSED RRU 4460 B25+B66	-	(1) PROPOSED 1-5/8"ø (6x24) HYBRID CABLE	160'± (±48.77m)
D2	OPEN	-				-	-	-	-	-	-	-	-	-		
D3	PROPOSED	N2500		N2500		ERICSSON	AIR6419_B41	34.49"x19.92"x7.99"	104'	280'	-	0'	-	-		

NOTES:
1. PLANS PREPARED PER RF SHEET DATED 10/24/2024. 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

PROJECT MANAGEMENT FIRM

ENGINEER

APPLICANT

SITE INFORMATION


DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

SHEET NUMBER



TOTALLY COMMITTED.

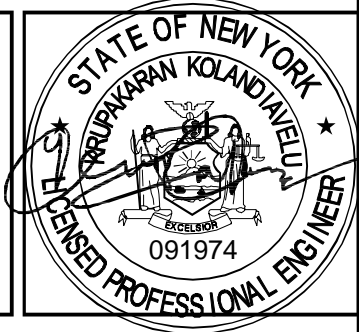
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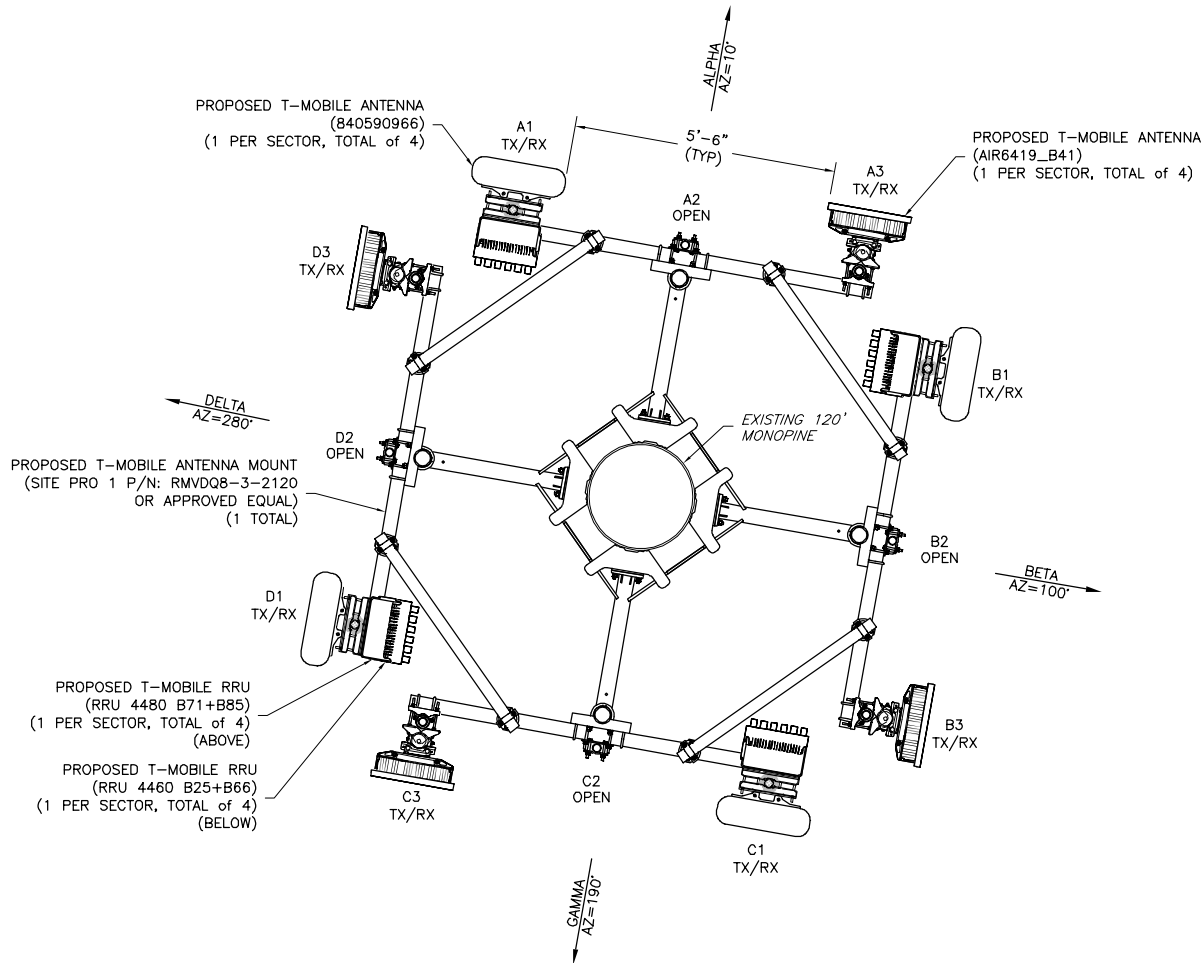


KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974
EXPIRATION DATE:03/31/27

ANTENNA SCHEDULE




A-1

LAST PLOTTED: 04/30/2025 10:24 AM

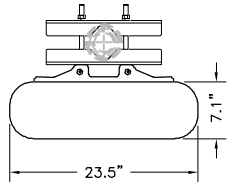
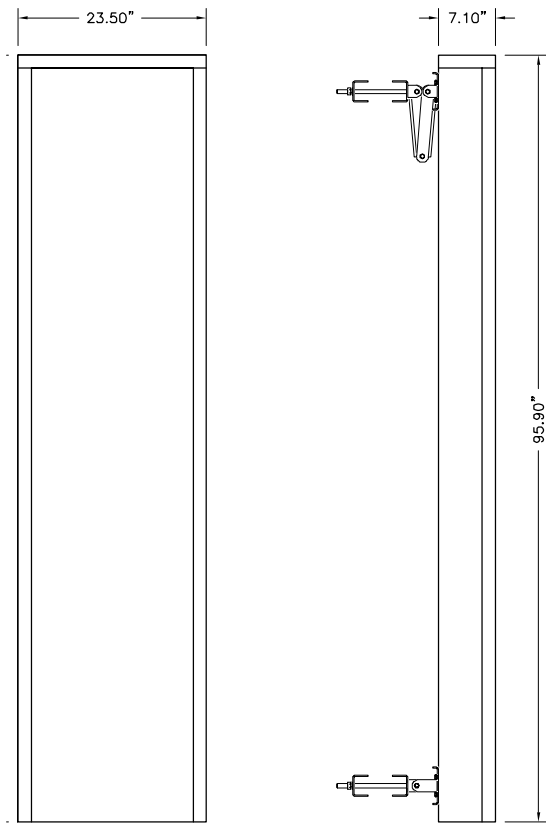


1
A-2
PROPOSED ANTENNA ORIENTATION PLAN
NOT TO SCALE

APPROX
TRUE NORTH

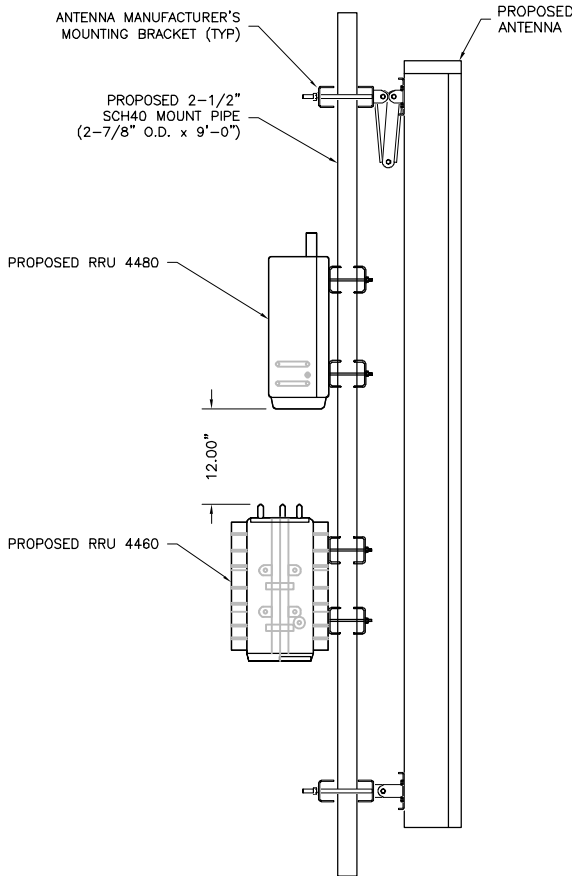
PROJECT MANAGEMENT FIRM	<div><p>TOTALLY COMMITTED.</p><p>1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122</p></div>																				
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ENGINEER	<div>KRUPAKARAN KOLANDAIVELU, P.E. STATE OF NEW YORK PROFESSIONAL ENGINEER LICENSE #091974 EXPIRATION DATE:03/31/27</div>																				
SHEET TITLE	<div>ANTENNA ORIENTATION PLANS</div>																				
SHEET NUMBER	<div>A-2</div>																				

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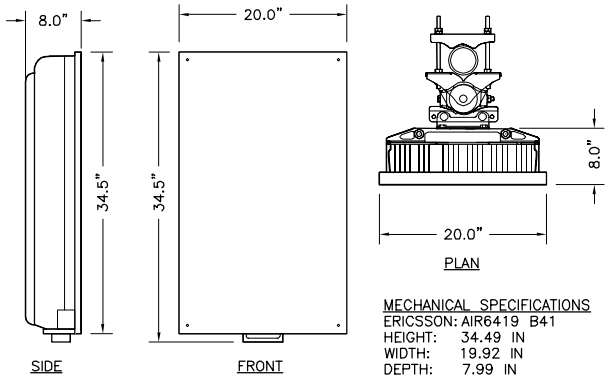


MECHANICAL SPECIFICATIONS
ERICSSON: 840590966
LENGTH: 95.9 IN
WIDTH: 23.5 IN
DEPTH: 7.1 IN
WEIGHT: 101.4 LBS

1
A-3
ERICSSON PANEL ANTENNA
NOT TO SCALE

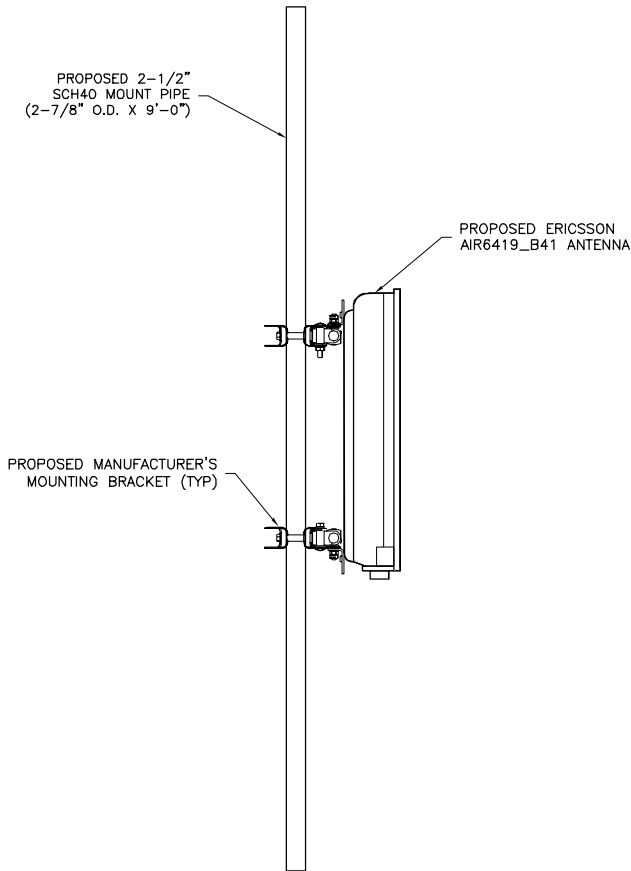


2
A-3
ANTENNA MOUNTING DETAIL
NOT TO SCALE



MECHANICAL SPECIFICATIONS
ERICSSON: AIR6419 B41
HEIGHT: 34.49 IN
WIDTH: 19.92 IN
DEPTH: 7.99 IN
WEIGHT: 68.5 LBS (NOT INCLUDING MOUNTING BRACKET)

3
A-3
ERICSSON PANEL ANTENNA
NOT TO SCALE



4
A-3
ANTENNA MOUNTING DETAIL
NOT TO SCALE

PROJECT MANAGEMENT FIRM

NB+C
TOTALLY COMMITTED.

1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

ENGINEER

TKK ENGINEERING DPC
PSC #123266
NY CERTIFICATION OF
AUTHORIZATION NO. 020084
6096 MARSHALEE DRIVE, SUITE 300
ELK RIDGE, MD 21075
410-712-7092

APPLICANT

T-Mobile
T-MOBILE NORTHEAST LLC
103 MONARCH DRIVE
LIVERPOOL, NY 13088

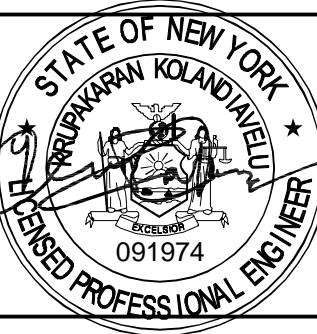
SITE INFORMATION

UP50068A
ROCKINGHAM PARK
30-40 SOCCERFIELD DRIVE
WAPPINGERS FALLS, NY 12590
HAMLET OF MYERS CORNER
DUTCHESS COUNTY

DESIGN RECORD

REVISIONS				
3	04/03/25	FINAL CDs	DS	
2	03/05/25	REVISER PER COMMENTS	TR	
1	01/13/25	REVISER PER COMMENTS	FG	
0	01/08/25	PRELIMINARY	CHD	
REV	DATE	DESCRIPTION	BY	

PROFESSIONAL STAMP



ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974
EXPIRATION DATE:03/31/27

SHEET TITLE

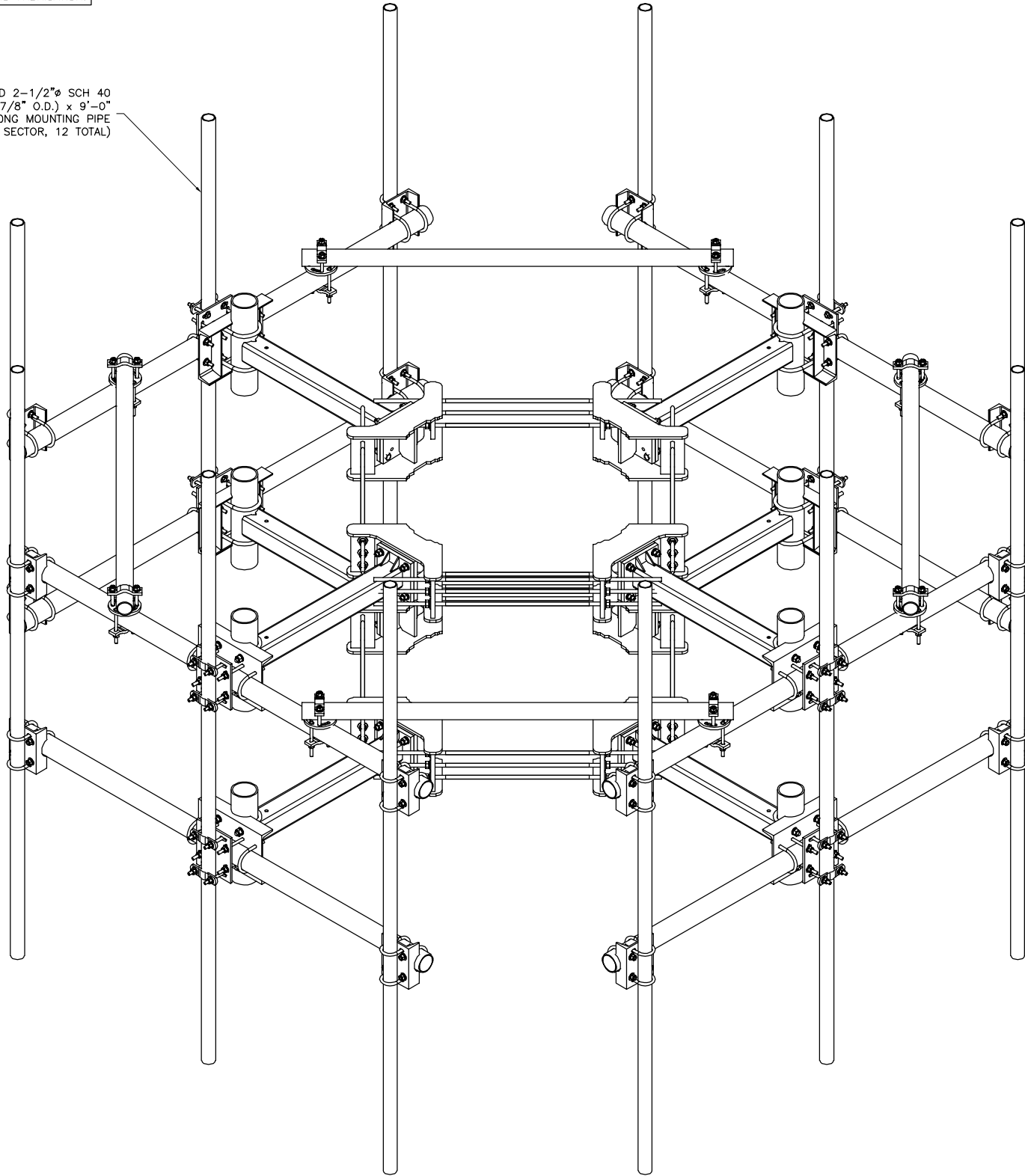
ANTENNA
SPECIFICATIONS
& DETAILS

SHEET NUMBER

A-3

NOTE:
CONTRACTOR TO VERIFY DIMENSIONS
PRIOR TO MATERIAL BIDDING,
MATERIAL ORDERS, AND FABRICATION.

PROPOSED 2-1/2"Ø SCH 40
(2-7/8" O.D.) x 9'-0"
LONG MOUNTING PIPE
(TYP 3 PER SECTOR, 12 TOTAL)



1 DOUBLE MONOPOLE QUAD T-ARM KIT (SITE PRO 1 P/N: RMVDQ8-3-2120)
A-4 NOT TO SCALE

PROJECT MANAGEMENT FIRM

NB+C
TOTALLY COMMITTED.

1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

ENGINEER

TKK ENGINEERING DPC
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NY CERTIFICATION OF
AUTHORIZATION NO. 020084
6095 MARSHALLEE DRIVE, SUITE 300
ELK RIDGE, MD 21075
410-712-7092

APPLICANT

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T-MOBILE NORTHEAST LLC
103 MONARCH DRIVE
LIVERPOOL, NY 13088

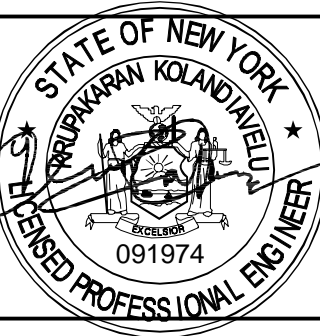
SITE INFORMATION

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ROCKINGHAM PARK
30-40 SOCCERFIELD DRIVE
WAPPINGERS FALLS, NY 12590
HAMLET OF MYERS CORNER
DUTCHESS COUNTY

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0	01/08/25	PRELIMINARY	CHD
REV	DATE	DESCRIPTION	BY

PROFESSIONAL STAMP



ENGINEER

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STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974
EXPIRATION DATE:03/31/27

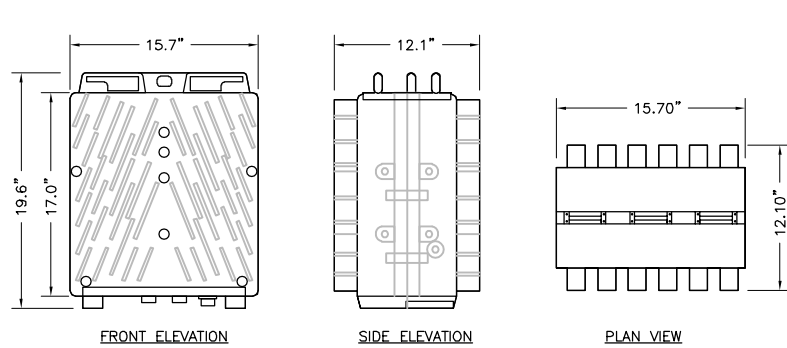
SHEET TITLE

ANTENNA
MOUNT
DETAIL

SHEET NUMBER

A-4

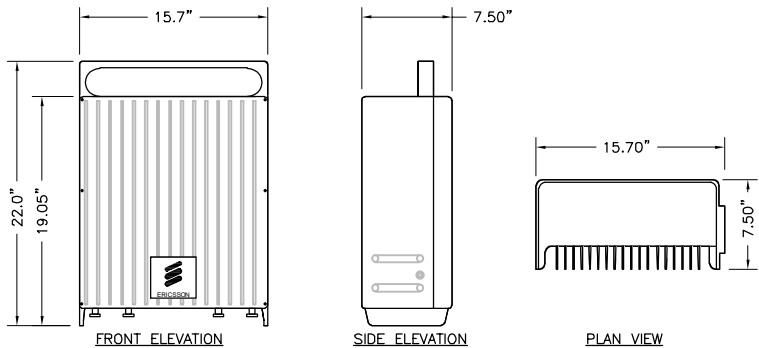
LAST PLOTTED: 04/30/2025 10:25 AM



SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 4460	19.6"	15.7"	12.1"	109.00 LBS

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

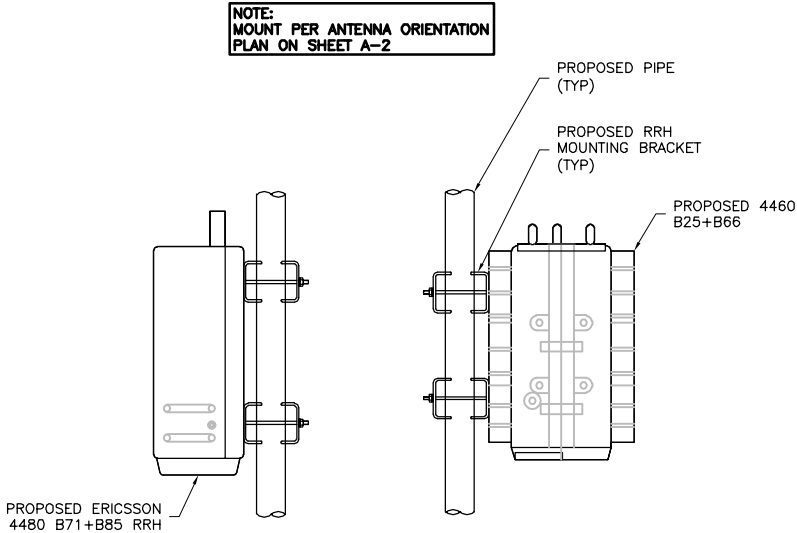
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A-5
REMOTE RADIO UNIT (RRU)
NOT TO SCALE



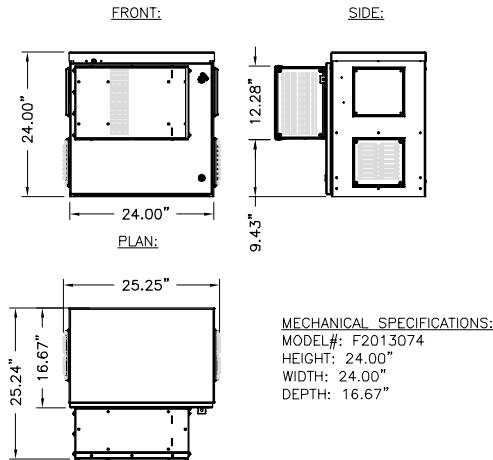
SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 4480	22.0"	15.7"	7.50"	81.00 LBS

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



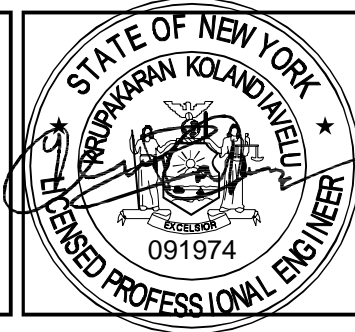
2
A-5
REMOTE RADIO UNIT (RRU)
NOT TO SCALE



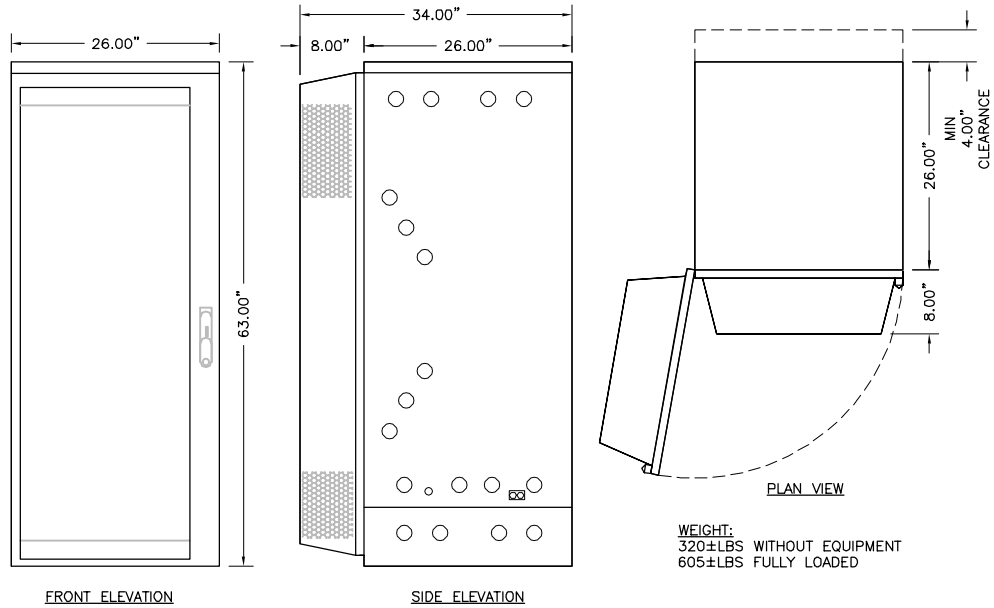
3
A-5
RRH MOUNTING DETAILS
NOT TO SCALE



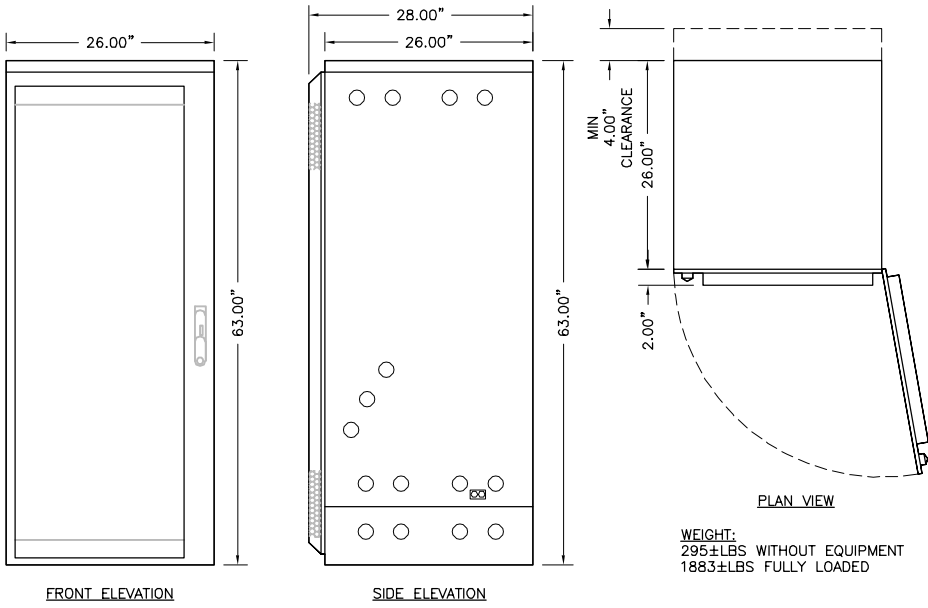
4
A-5
AAV CABINET DETAIL
NTS

PROJECT MANAGEMENT FIRM	<div><p>TOTALLY COMMITTED.</p><p>1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122</p></div>																								
ENGINEER	<div><p>TKK ENGINEERING DPC PSC #123266 NY CERTIFICATION OF AUTHORIZATION NO. 020084 6096 MARSHALLEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 410-712-7092</p></div>																								
APPLICANT	<div><p>T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088</p></div>																								
SITE INFORMATION	<div><p>UP50068A ROCKINGHAM PARK 30-40 SOCCERFIELD DRIVE WAPPINGERS FALLS, NY 12590 HAMLET OF MYERS CORNER DUTCHESS COUNTY</p></div>																								
DESIGN RECORD	<table><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>3</td><td>0403/25</td><td>FINAL CDs</td><td>DS</td></tr><tr><td>2</td><td>0305/25</td><td>REVISER PER COMMENTS</td><td>TR</td></tr><tr><td>1</td><td>01/13/25</td><td>REVISER PER COMMENTS</td><td>FG</td></tr><tr><td>0</td><td>01/08/25</td><td>PRELIMINARY</td><td>CHD</td></tr></tbody></table>	REVISIONS				REV	DATE	DESCRIPTION	BY	3	0403/25	FINAL CDs	DS	2	0305/25	REVISER PER COMMENTS	TR	1	01/13/25	REVISER PER COMMENTS	FG	0	01/08/25	PRELIMINARY	CHD
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0	01/08/25	PRELIMINARY	CHD																						
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ENGINEER	<div><p>KRUPAKARAN KOLANDAIVELU, P.E. STATE OF NEW YORK PROFESSIONAL ENGINEER LICENSE #091974 EXPIRATION DATE:03/31/27</p></div>																								
SHEET TITLE	<div>EQUIPMENT SPECIFICATIONS & DETAILS</div>																								
SHEET NUMBER	<div>A-5</div>																								

LAST PLOTTED: 04/30/2025 10:25 AM

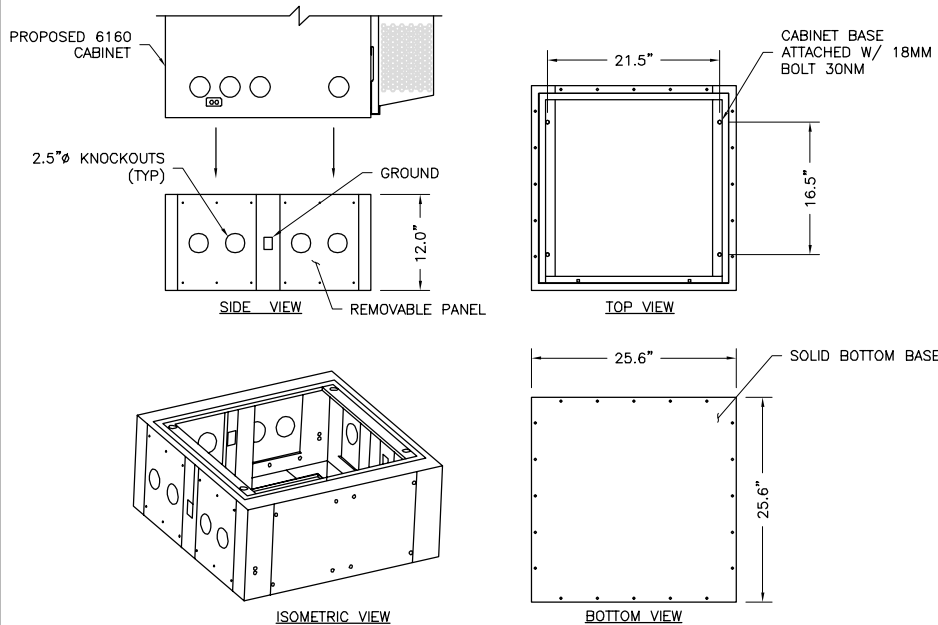


1
A-6
6160 ENCLOSURE CABINET
NOT TO SCALE



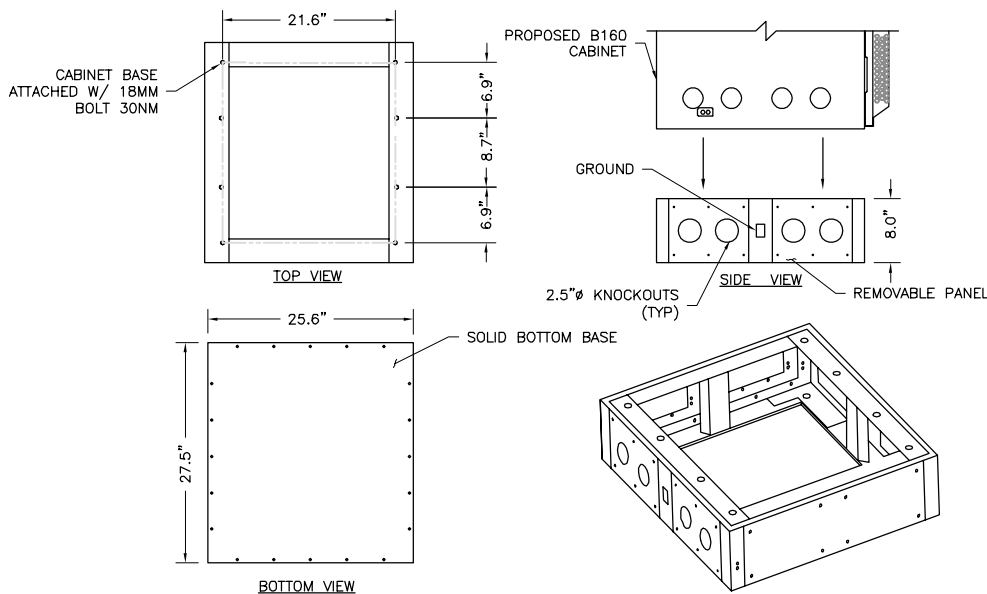
2
A-6
B160 BATTERY CABINET
NOT TO SCALE

SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 6160 12" BASE FRAME (SXX 125 5009/1)	12.0"	25.6"	25.6"	±73 LBS

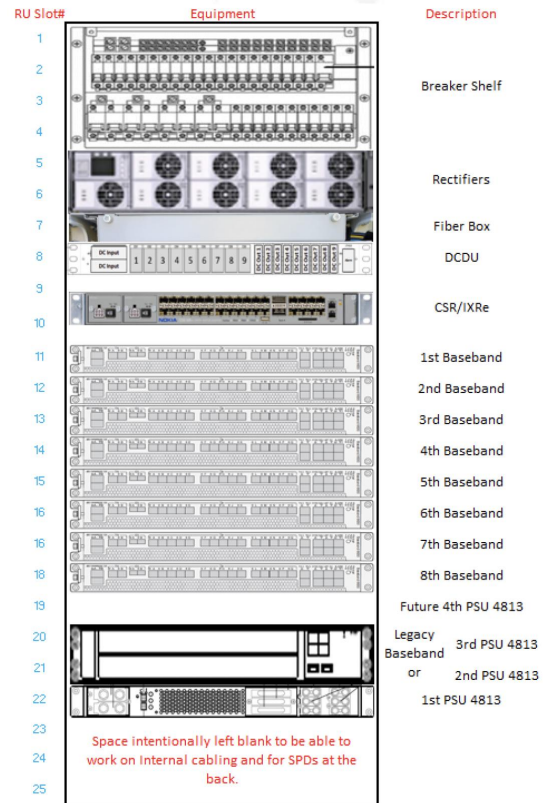


3
A-6
6160 PLINTH DETAIL
NOT TO SCALE

SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON B160 BASE FRAME (SXX 125 5010/1)	8.0"	25.6"	27.5"	±60 LBS



4
A-6
B160 PLINTH DETAIL
NOT TO SCALE



5
A-6
6160 CABINET INTERNAL LAYOUT
NOT TO SCALE

PROJECT MANAGEMENT FIRM

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

SHEET NUMBER

NB+C
TOTALLY COMMITTED.

1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

TKK ENGINEERING DPC
PSC #123266
NY CERTIFICATION OF
AUTHORIZATION NO. 020084
6095 MARSHALLEE DRIVE, SUITE 300
ELK RIDGE, MD 21075
410-712-7092

T-Mobile
T-MOBILE NORTHEAST LLC
103 MONARCH DRIVE
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UP50068A
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DUTCHESS COUNTY

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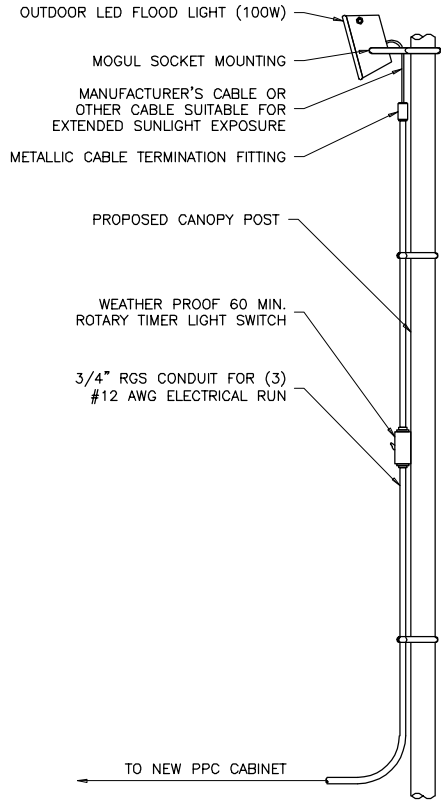
STATE OF NEW YORK
KRUPAKARAN KOLANDAIVELU
LICENSED PROFESSIONAL ENGINEER
091974

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974
EXPIRATION DATE:03/31/27

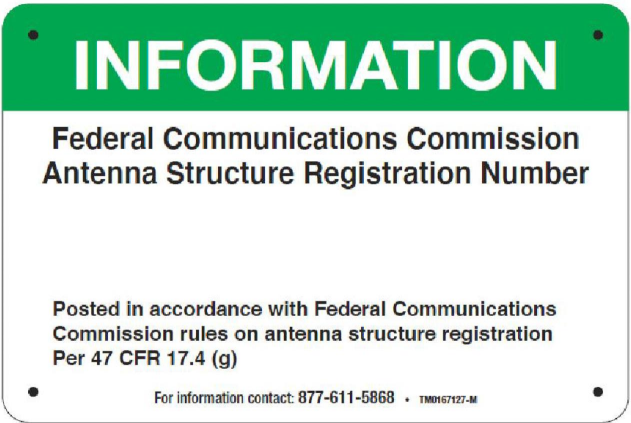
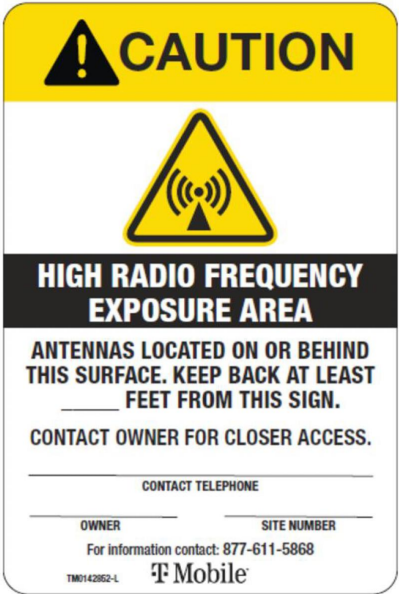
CABINET
SPECIFICATIONS
& DETAILS

A-6



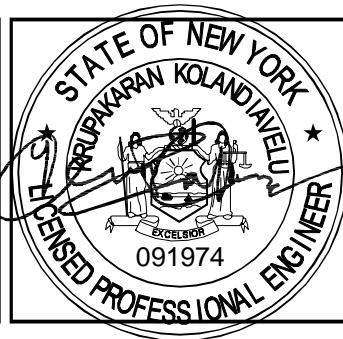
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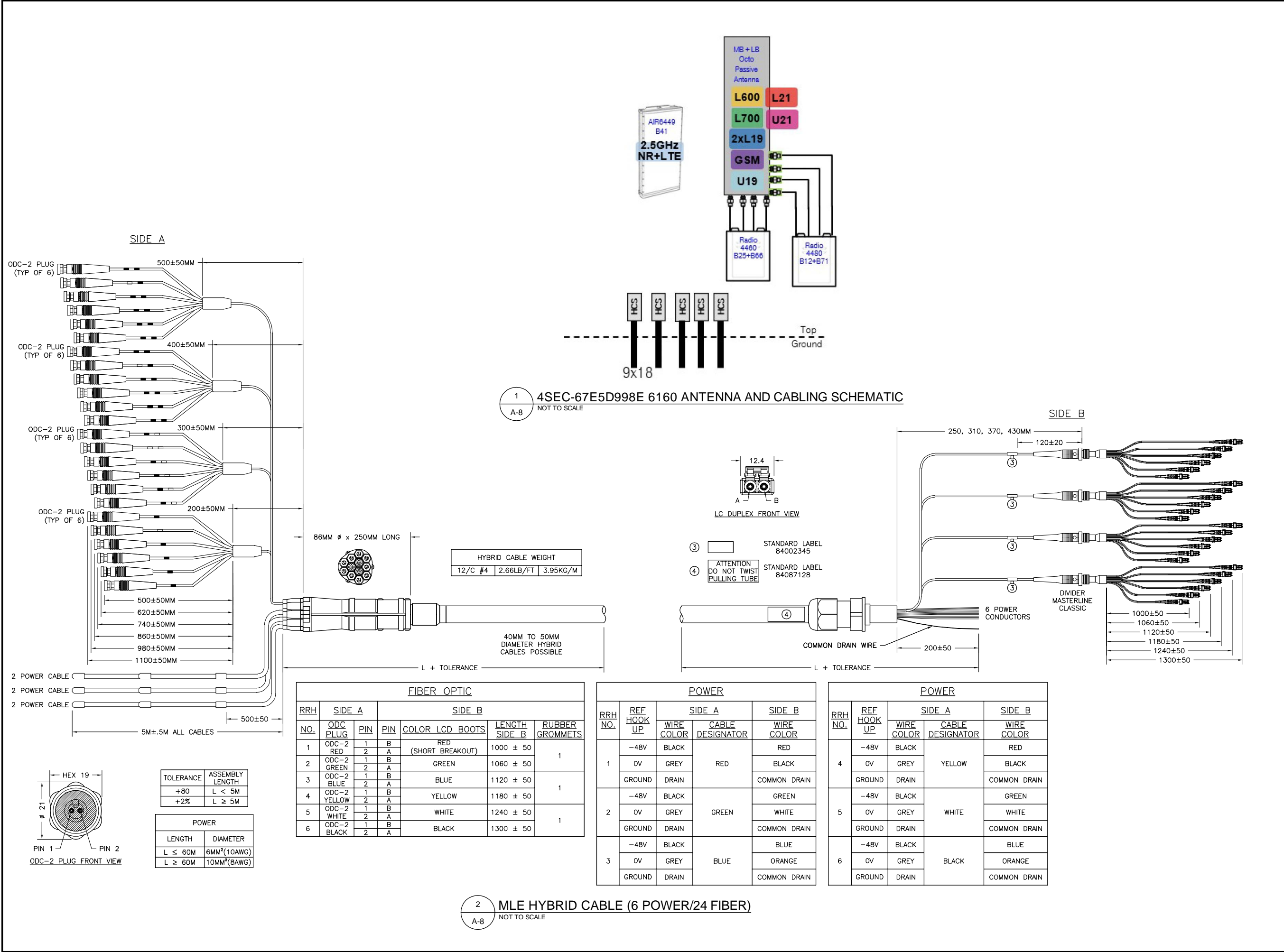
1 PROPOSED SITE LIGHT MOUNTING DETAIL
A-7 NTS



2 RF SIGNAGE
A-7 NOT TO SCALE

PROJECT MANAGEMENT FIRM	 <p>TOTALLY COMMITTED.</p> <p>1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122</p>																								
ENGINEER	<p>TKK ENGINEERING DPC PSC #123266 NY CERTIFICATION OF AUTHORIZATION NO. 020084 6096 MARSHALLEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 410-712-7092</p>																								
APPLICANT	 <p>T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088</p>																								
SITE INFORMATION	<p>UP50068A ROCKINGHAM PARK 30-40 SOCCERFIELD DRIVE WAPPINGERS FALLS, NY 12590 HAMLET OF MYERS CORNER DUTCHESS 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>3</td> <td>04/03/25</td> <td>FINAL CDs</td> <td>DS</td> </tr> <tr> <td>2</td> <td>03/05/25</td> <td>REVISER PER COMMENTS</td> <td>TR</td> </tr> <tr> <td>1</td> <td>01/13/25</td> <td>REVISER PER COMMENTS</td> <td>FG</td> </tr> <tr> <td>0</td> <td>01/08/25</td> <td>PRELIMINARY</td> <td>CHD</td> </tr> </tbody> </table>	REVISIONS				REV	DATE	DESCRIPTION	BY	3	04/03/25	FINAL CDs	DS	2	03/05/25	REVISER PER COMMENTS	TR	1	01/13/25	REVISER PER COMMENTS	FG	0	01/08/25	PRELIMINARY	CHD
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PROFESSIONAL STAMP																									
ENGINEER	<p>KRUPAKARAN KOLANDAIVELU, P.E. STATE OF NEW YORK PROFESSIONAL ENGINEER LICENSE #091974 EXPIRATION DATE:03/31/27</p>																								
SHEET TITLE	<p>CIVIL DETAILS</p>																								
SHEET NUMBER	<p>A-7</p>																								

LAST PLOTTED: 04/30/2025 10:25 AM



PROJECT MANAGEMENT FIRM

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

SHEET NUMBER

REVISIONS

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STATE OF NEW YORK

KRUPAKARAN KOLANDAIVELU

091974

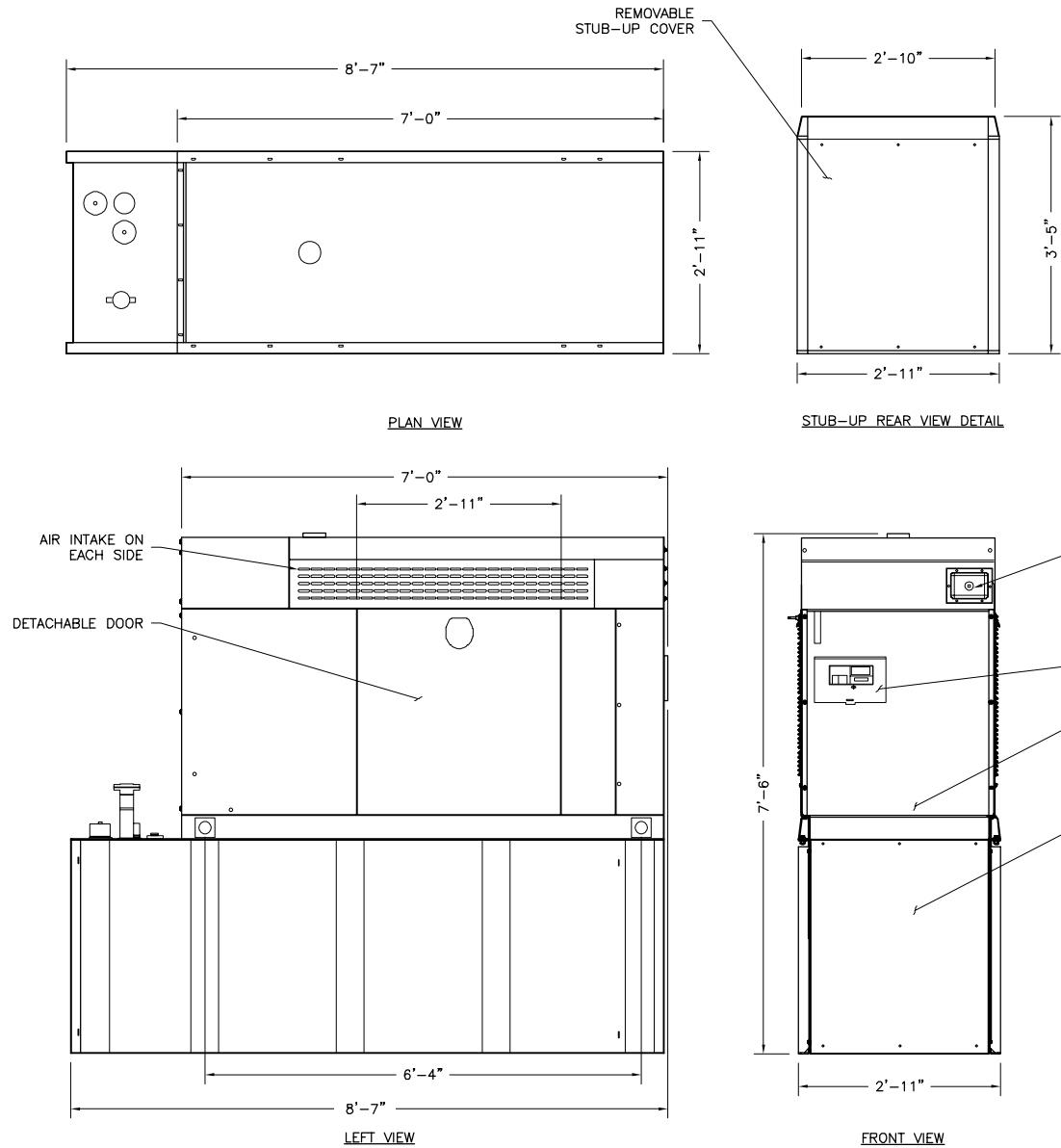
PROFESSIONAL ENGINEER

EXPIRATION DATE: 03/31/27

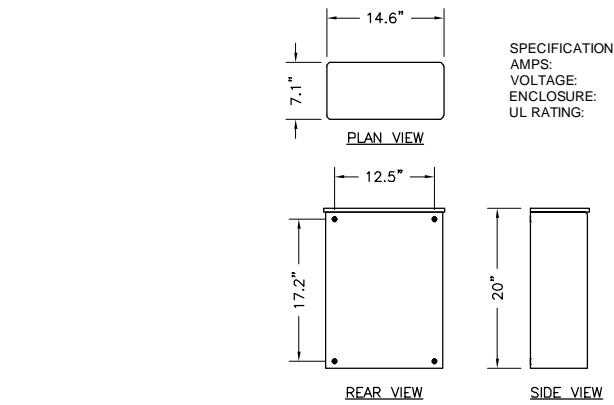
CABLING DETAILS & RF PLUMBING DIAGRAM

A-8

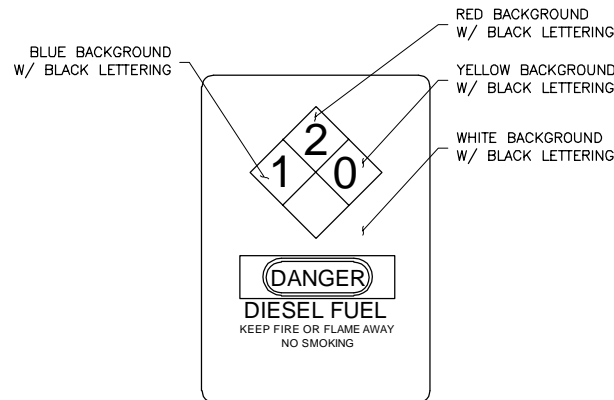
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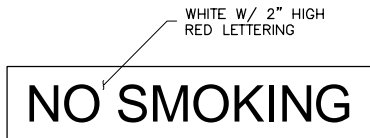
1 GENERAC 48kW AC POWER DIESEL GENERATOR DETAIL
D-1 NTS



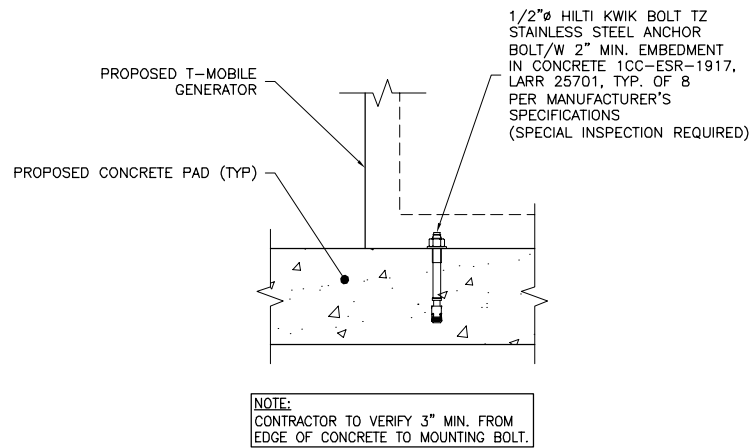
2 GENERAC RXSC AUTOMATIC TRANSFER SWITCH
D-1 NTS





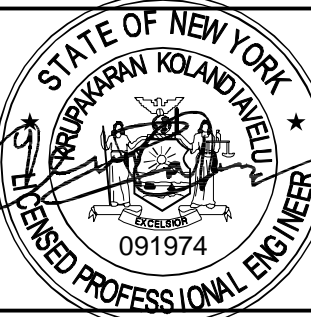
3 SIGNAGE DETAIL
D-1 NTS



4 SIGNAGE DETAIL
D-1 NTS



5 GENERATOR MOUNTING DETAIL
D-1 NTS

PROJECT MANAGEMENT FIRM	 TOTALLY COMMITTED. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122																								
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APPLICANT	 T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088																								
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SHEET TITLE	GENERATOR AND MOUNTING DETAILS																								
SHEET NUMBER	D-1																								

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CONCRETE GENERAL NOTES

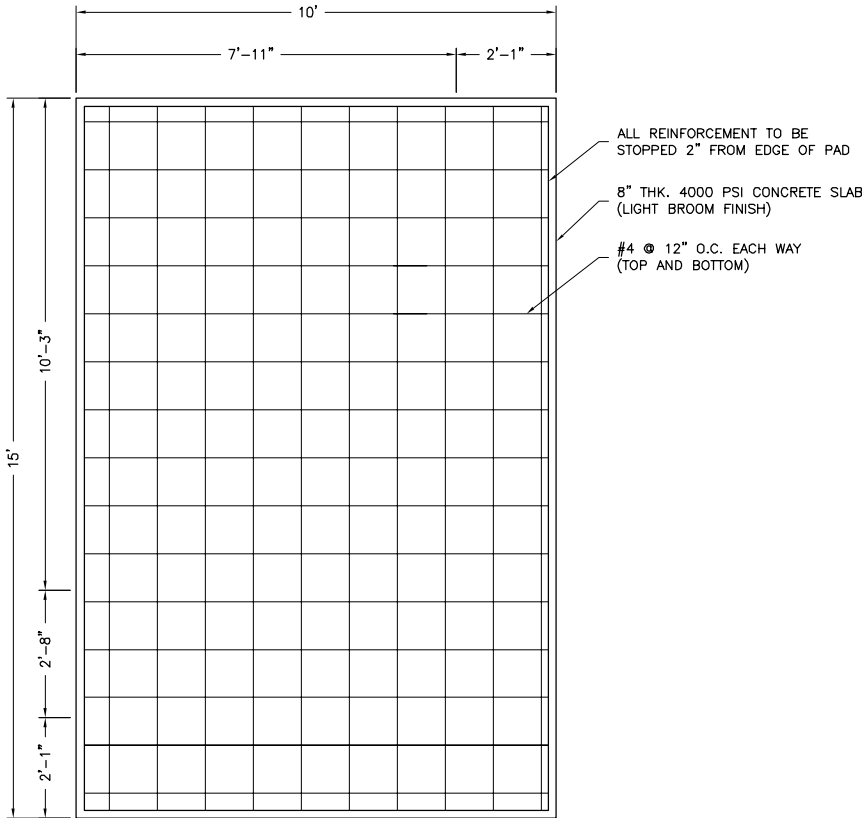
- ALL CONCRETE WORK SHALL CONFORM TO ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND TO THE PROJECT SPECIFICATIONS.
- ALL CONCRETE IS TO BE NORMAL DENSITY CONCRETE WITH A MAXIMUM SLUMP OF 4 INCHES. MAXIMUM AGGREGATE SIZE 3/4 INCH. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
- PROVIDE AIR ENTRAINMENT OF 4 TO 6 PERCENT IN ALL EXPOSED CONCRETE WORK WITH AIR-ENTRAINING ADMIXTURE COMPLYING WITH ASTM C 260. AT TROWEL-FINISHED FLOORS, DO NOT EXCEED AIR-ENTRAINMENT CONTENT OF 3 PERCENT.
- NO HOLES OR SLEEVES SHALL BE MADE THROUGH CONCRETE WORK OTHER THAN THOSE INDICATED ON THE STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL FORMWORK OFFSET TOLERANCES (PER ACI 117) TO BE CLASS A.
- FLOOR SLAB TOLERANCES TO ASTM E1155; SPECIFIED OVERALL MINIMUM VALUE OF FLATNESS F F=25 WITH LOCAL MINIMUM F F=17, AND MINIMUM VALUE OF LEVELNESS F F=20 WITH LOCAL MINIMUM F I AND F F WITHIN 72 HOURS OF SLAB CONSTRUCTION.
- CABINETS ON SLAB (IF APPLICABLE). ALLOWABLE CAPACITY OF CONCRETE USED IN DESIGN MIN. 3500 PSI UNLESS OTHERWISE SPECIFIED.

FOUNDATION NOTES:

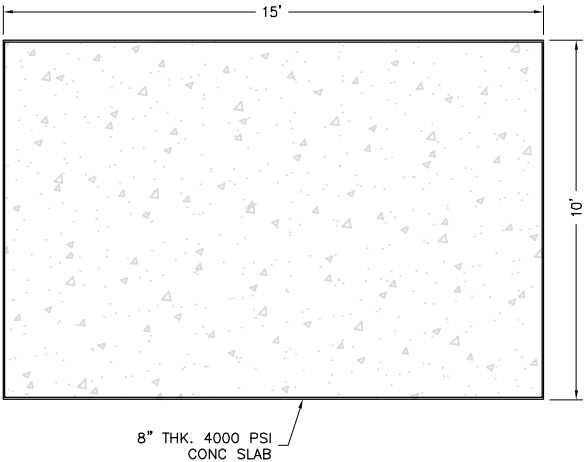
- DESIGN INFORMATION AND GENERAL REQUIREMENTS
 - 1.1 CODES
 - DESIGN CONFORMS TO INTERNATIONAL BUILDING CODE 2012.
 - AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318-99.
 - 2.1 FOUNDATIONS
 - FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON (UNDISTURBED RESIDUAL SOILS/COMPACTED STRUCTURAL FILL), CAPABLE OF SAFELY SUPPORTING A NET ALLOWABLE BEARING PRESSURE OF 2000 PSF. IF FOUNDATION CONDITIONS PROVE UNACCEPTABLE AT ELEVATIONS SHOWN, EXCAVATION SHALL BE CARRIED DEEPER AND SHALL BE BACKFILLED WITH LEAN CONCRETE TO PLAN FOOTING BOTTOM, OR REDESIGN OF FOUNDATIONS WILL BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
 - DESIGN, FURNISH AND INSTALL ALL TEMPORARY SHEETING, SHORING AND DRAINAGE NECESSARY TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.
 - THOROUGHLY COMPACT ALL BOTTOM OF FOOTINGS PRIOR TO PLACING ANY CONCRETE.
- CONCRETE
 - 3.1 FORMWORK
 - CONCRETE CONSTRUCTION SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL, CONCRETE FOR BUILDINGS," (ACI 301-89).
 - FORMWORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
 - 3.2 REINFORCEMENT
 - REINFORCING STEEL ASTM A615, GRADE 60. WELDED WIRE ASTM A185 (FLAT SHEET). LAPS 40 BAR DIAMETERS UNLESS NOTED. BARS SHALL BE SECURELY HELD IN ACCURATE POSITION BY SUITABLE ACCESSORIES, TIE BARS, SUPPORT BARS, ETC. HOOK LENGTHS SHALL BE 12 BAR DIAMETERS.
 - CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED.

FOOTINGS & SLABS CAST AGAINST GROUND	3"
CONCRETE TO BE IN CONTACT WITH GROUND OR WEATHER AT BARS GREATER THAN #5	2"
AT BARS #5 OR LESS	1-1/2"
CONCRETE NOT TO BE EXPOSED TO GROUND OR WEATHER BEAMS, GIRDERS & COLUMNS	1-1/2"
SLABS & WALLS	3/4"
 - 3.3 CAST-IN-PLACE-CONCRETE
 - MINIMUM 28 DAY CYLINDER STRENGTH AND MAXIMUM SLUMP, PRIOR TO ADDITION OF SUPER PLASTICIZERS, AS FOLLOWS:

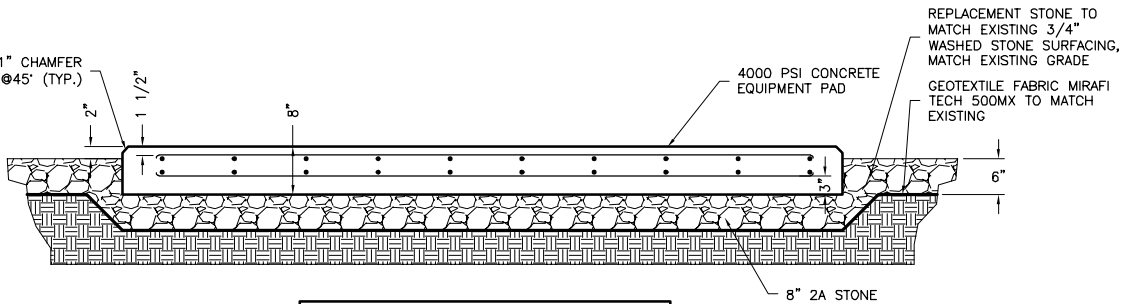
	F'C (PSI)	SLUMP
CLASS I FOOTINGS	4500	3"
CLASS II FOOTINGS	4500	3"
CLASS III INTERIOR ELEVATED SLABS & WALLS	4500	4"
CLASS V OTHER WORK	4500	4"
CLASS VI LEAN CONCRETE FOR OVER EXCAVATION OF FOUNDATIONS	2000	N/A
 - MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 5. NO CALCIUM CHLORIDE OR ADMIXTURE CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE.
 - COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57. COARSE AGGREGATE FOR LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C330 GRADED 3/4" TO 1/4".
 - COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1
 - HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R.
 - CHAMFER ALL EXPOSED EDGES 3/4" UNLESS OTHERWISE NOTED.
 - THE MAXIMUM TEMPERATURE OF ALL CONCRETE AT DELIVERY TO THE SITE SHALL BE 85°F, TOTAL DELIVERY TIME SHALL BE LESS THEN 75 MINUTES.



1 EQUIPMENT CONCRETE PAD DETAIL - A
D-2 NTS



2 EQUIPMENT CONCRETE PAD DETAIL - B
D-2 NTS



NOTE:
1. CONCRETE SHALL BE 4000 PSI AIR ENTRAINED CONCRETE PLACED OF A MIN. OF 8" #2A GRAVEL ON UNDISTURBED OR WELL AS COMPACTED SOIL WITH A BEARING PREASSIRE OF 1500 PSF MIN.

3 CONCRETE SLAB DETAIL
D-2 N.T.S

PROJECT MANAGEMENT FIRM



1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

ENGINEER

TKK ENGINEERING DPC
PSC #123266
NY CERTIFICATION OF
AUTHORIZATION NO. 020084
6095 MARSHALEE DRIVE, SUITE 300
ELK RIDGE, MD 21075
410-712-7092

APPLICANT

T-Mobile
T-MOBILE NORTHEAST LLC
103 MONARCH DRIVE
LIVERPOOL, NY 13088

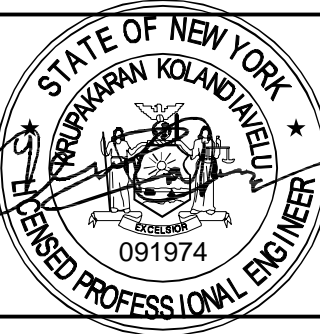
SITE INFORMATION

UP50068A
ROCKINGHAM PARK
30-40 SOCCERFIELD DRIVE
WAPPINGERS FALLS, NY 12590
HAMLET OF MYERS CORNER
DUTCHESS COUNTY

DESIGN RECORD

REVISIONS			
3	04/03/25	FINAL CDs	DS
2	03/05/25	REVISER PER COMMENTS	TR
1	01/13/25	REVISER PER COMMENTS	FG
0	01/08/25	PRELIMINARY	CHD
REV	DATE	DESCRIPTION	BY

PROFESSIONAL STAMP



ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF NEW YORK
PROFESSIONAL ENGINEER
LICENSE #091974
EXPIRATION DATE:03/31/27

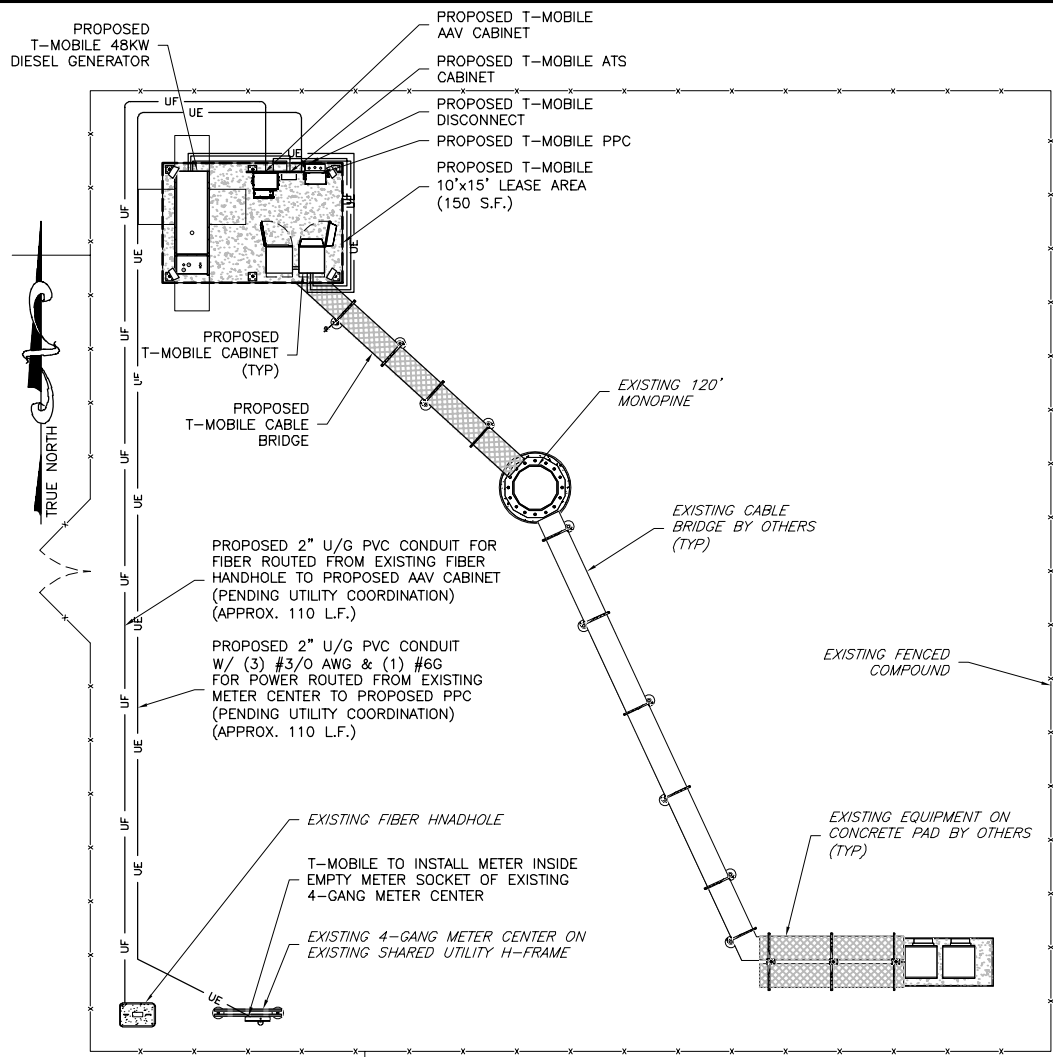
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CONCRETE
PAD DETAILS

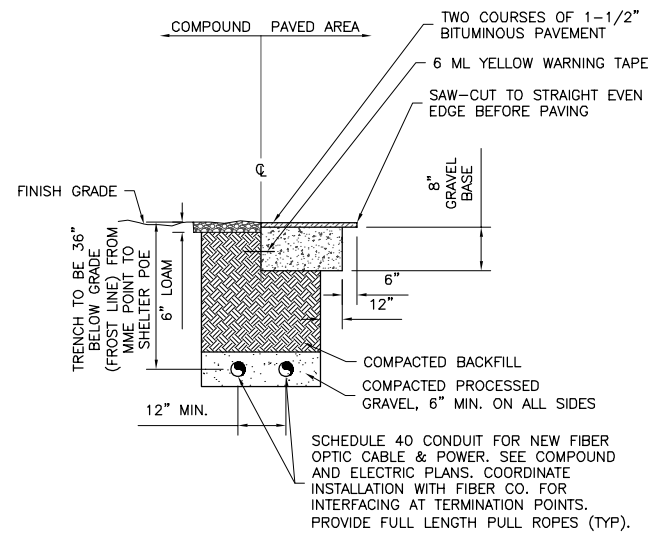
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D-2

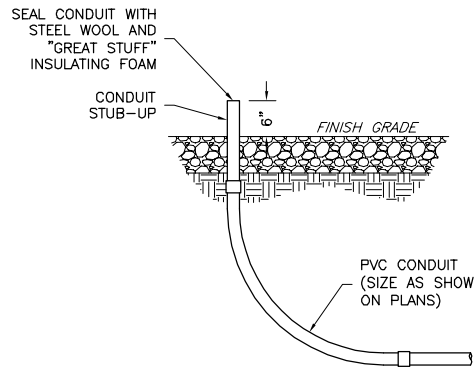
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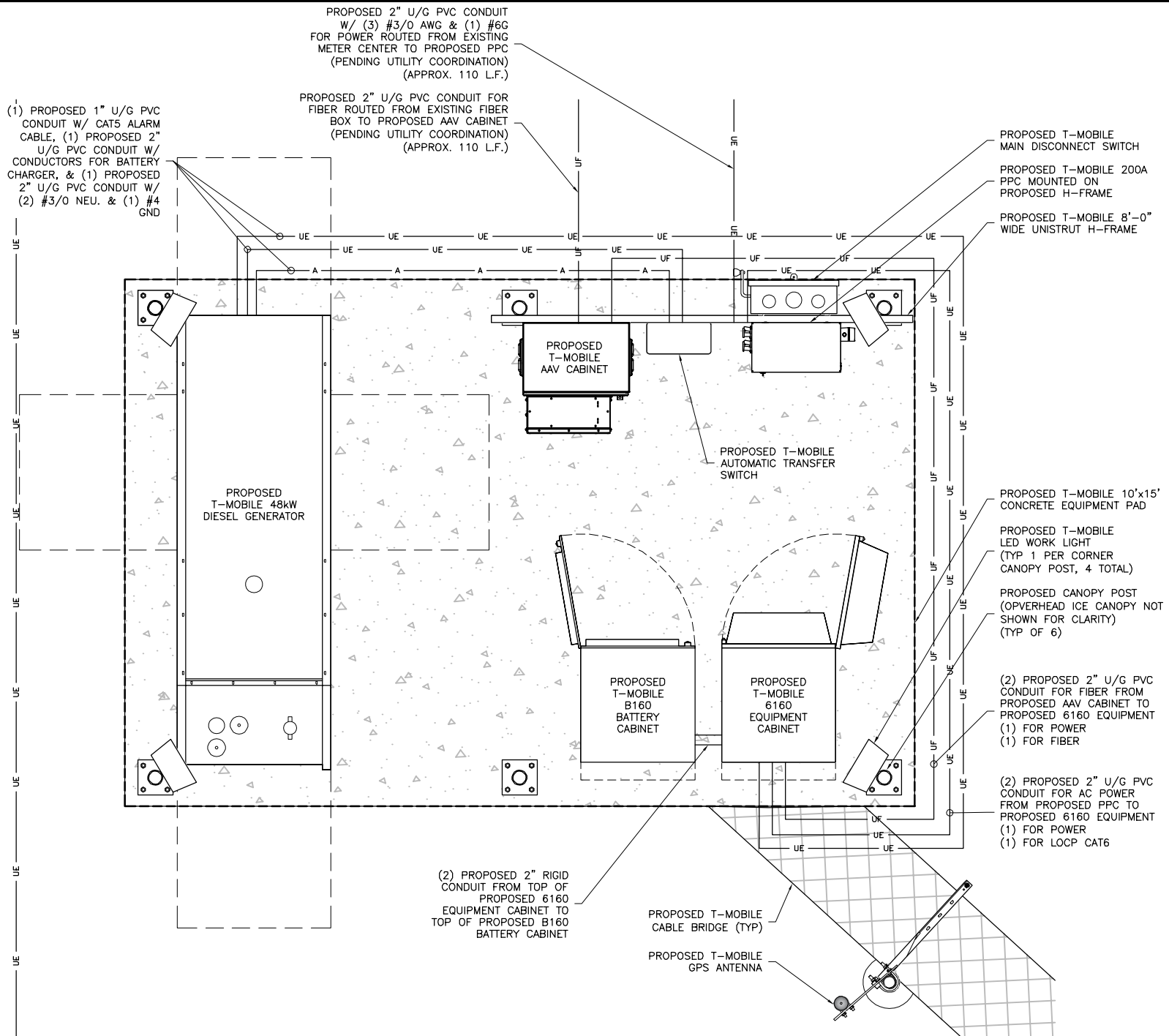
1 OVERALL UTILITY & FIBER ROUTING PLAN
E-1 NTS



3 TYPICAL TRENCH DETAIL
E-1 NTS



4 CONDUIT STUB-UP DETAIL
E-1 NOT TO SCALE



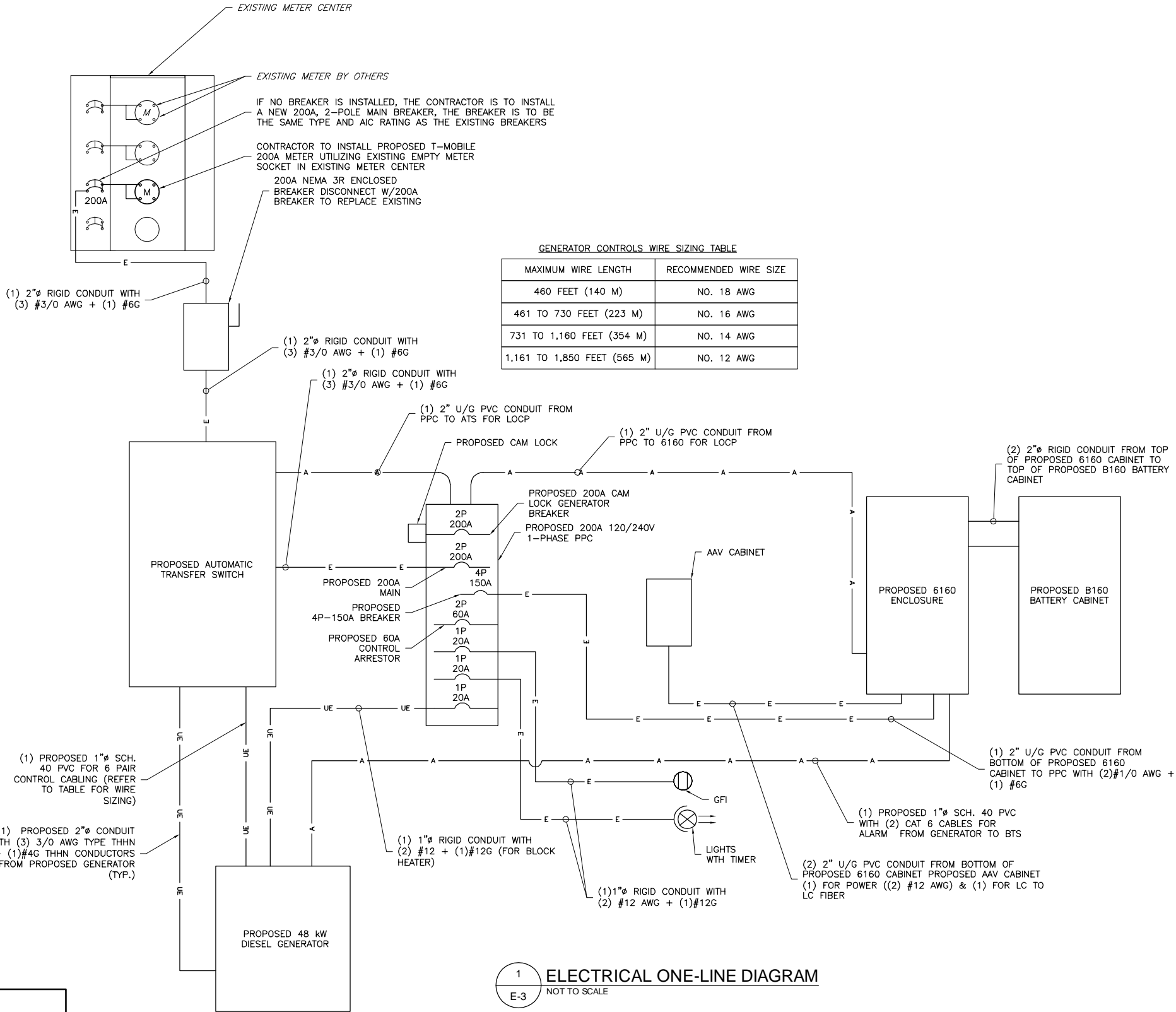
2 ENLARGED UTILITY & FIBER ROUTING PLAN
E-1 NTS

ELECTRICAL LEGEND			
	SAFETY DISCONNECT SWITCH	A	AMPERE
	PANEL BOARD	C	CONDUIT
	KILOWATT HOUR METER	EMT	ELECTRICAL METALLIC TUBING
	TRANSFORMER	G	GROUND
	CIRCUIT BREAKER	GFI	GROUND FAULT INTERRUPTING
	MANUAL TRANSFER SWITCH	KWH	KILOWATT HOUR
	AC GENERATOR CONNECTOR	MCB	MAIN CIRCUIT BREAKER
	WEATHERPROOF GFI DUPLEX RECEPTACLE	P	POLE
	ELECTRICAL WIRING	SW	SWITCH
	TELCO WIRING	V	VOLT
		W	WIRE

PROJECT MANAGEMENT FIRM	NB+C TOTALLY COMMITTED. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122																								
ENGINEER	TKK ENGINEERING DPC PSC #123266 NY CERTIFICATION OF AUTHORIZATION NO. 020084 6095 MARSHALLEE DRIVE, SUITE 300 ELK RIDGE, MD 21075 410-712-7092																								
APPLICANT	T-Mobile T-MOBILE NORTHEAST LLC 103 MONARCH DRIVE LIVERPOOL, NY 13088																								
SITE INFORMATION	UP50068A ROCKINGHAM PARK 30-40 SOCCERFIELD DRIVE WAPPINGERS FALLS, NY 12590 HAMLET OF MYERS CORNER DUTCHESS COUNTY																								
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SHEET TITLE	ELECTRICAL PLAN & DETAILS																								
SHEET NUMBER	E-1																								

LAST PLOTTED: 04/30/2025 10:26 AM

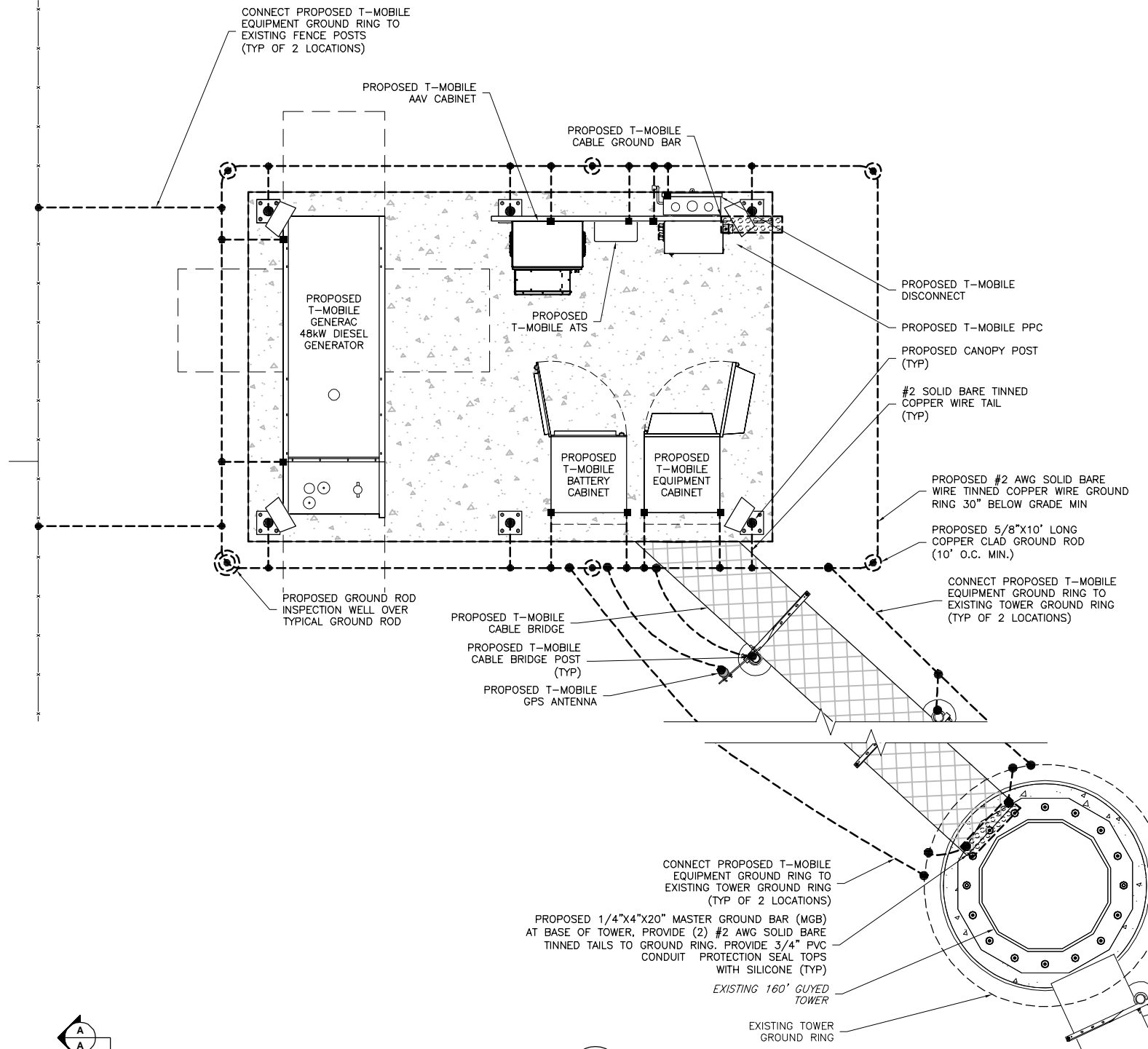
NOTE:
CONTRACTOR MUST VERIFY THE SIZE
OF PROPOSED GENERATOR WITH THE
CARRIER REPRESENTATIVE PRIOR TO
COMMENCEMENT OF THE INSTALLATION
PROJECT. GENERATOR CAPACITY SHALL
BE SUFFICIENT TO SUPPORT
CONNECTED LOAD.



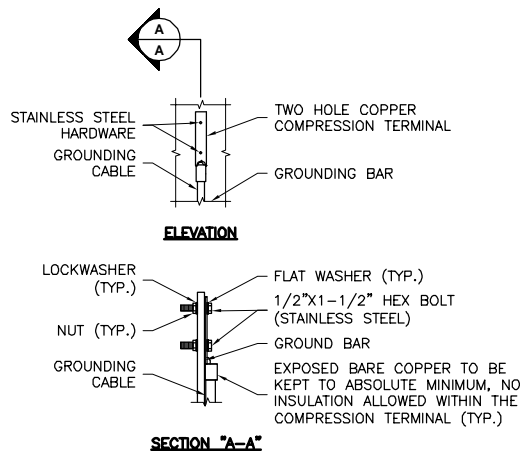
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	TELCO WIRING	V	VOLT
		W	WIRE

PROJECT MANAGEMENT FIRM	 TOTALLY COMMITTED. 1777 SENTRY PARKWAY WEST VEVA 17, SUITE 400 BLUE BELL, PA 19422 (267) 460-0122																								
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SHEET TITLE	ELECTRICAL NOTES & GENERATOR ONE LINE DIAGRAM																								
SHEET NUMBER	E-3																								

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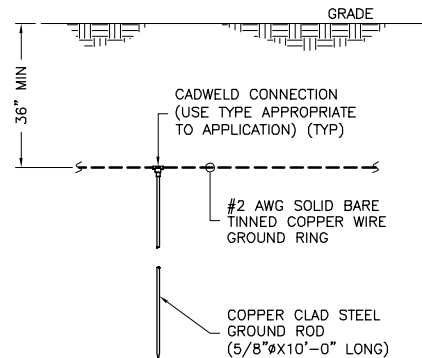


1
G-1
NTS
GROUNDING PLAN

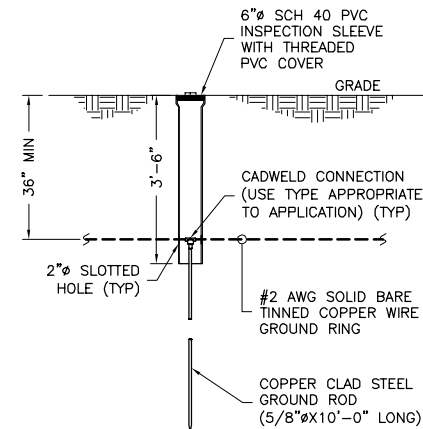


NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

2
G-1
NTS
TYPICAL GROUND BAR CONNECTION DETAIL



3
G-1
NTS
TYPICAL GROUND ROD DETAIL



4
G-1
NTS
GROUNDING ROD INSPECTION WELL

GROUNDING LEGEND

- COAXIAL CABLE SHIELD GROUND KIT CONNECTION
- COMPRESSION FITTING CONNECTION
- EXOTHERMIC WELD CONNECTION
- 5/8"x10' COPPER-CLAD STEEL GROUND ROD
- 5/8"x10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
- PROPOSED GROUND WIRING
- EXISTING GROUND WIRING
- TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
- COLLECTOR GROUND BAR
- MAIN GROUND BAR

PROJECT MANAGEMENT FIRM

NB+C
TOTALLY COMMITTED.

1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

ENGINEER

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ELK RIDGE, MD 21075
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APPLICANT

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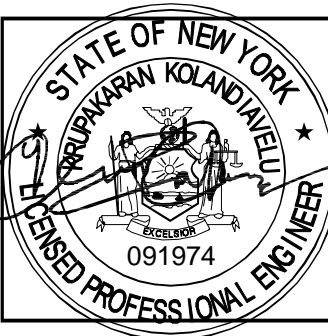
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EXPIRATION DATE: 03/31/27

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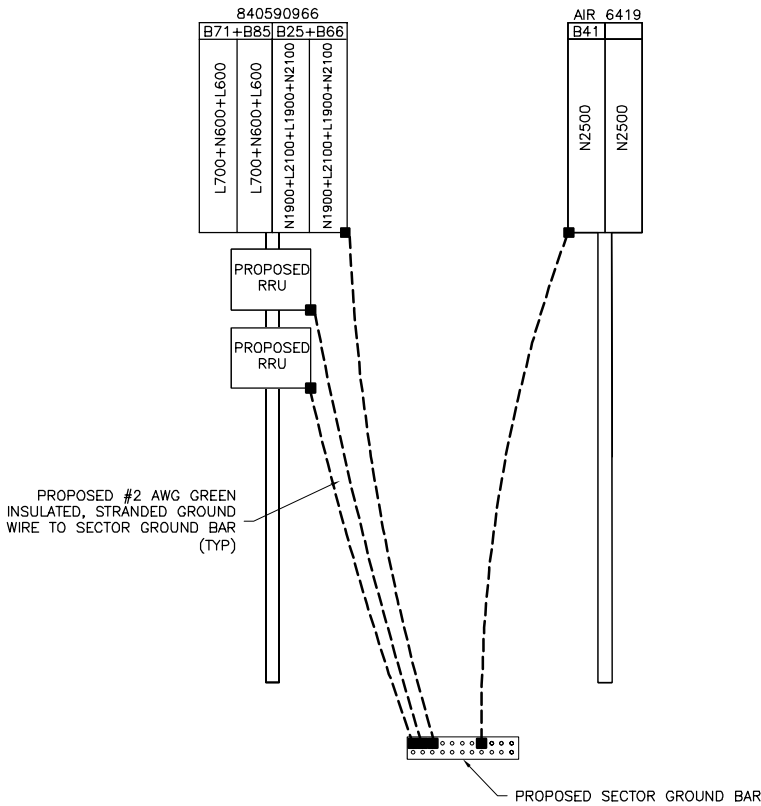
ANTENNA
GROUNDING
DETAILS

SHEET NUMBER

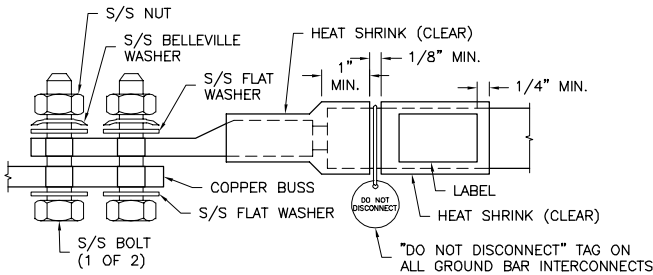
G-1

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TYPICAL PER SECTOR

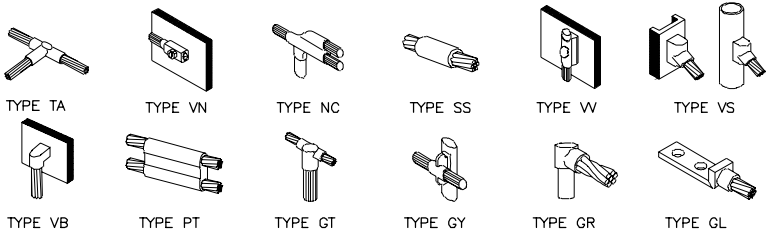


1 ANTENNA GROUNDING DETAIL
G-2 NOT TO SCALE

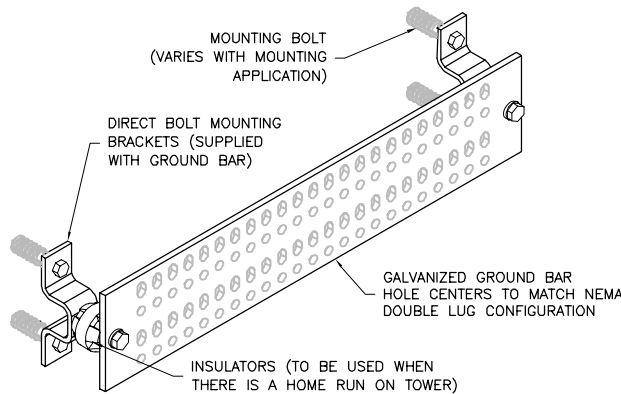


- NOTES:
- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
 - FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
 - COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.

2 GENERAL LUG DETAIL
G-2 NTS



3 GROUNDING CONNECTION DETAILS
G-2 NOT TO SCALE



GROUND BAR SCHEDULE				
TYPE	QTY	MANUFACTURER	PART NO.	REMARKS
MGB	2	ITS	GB12	OR EQUAL
CBG	3	ITS	GB24	OR EQUAL

4 GROUND BAR DETAIL
G-2 NOT TO SCALE

GROUNDING LEGEND

- MECHANICAL COMPRESSION CONNECTION
- CADWELD CONNECTION
- EXOTHERMIC WELD CONNECTION
- PROPOSED GROUND WIRING
- EXISTING GROUND WIRING

PROJECT MANAGEMENT FIRM

NB+C
TOTALLY COMMITTED.

1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

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ELK RIDGE, MD 21075
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103 MONARCH DRIVE
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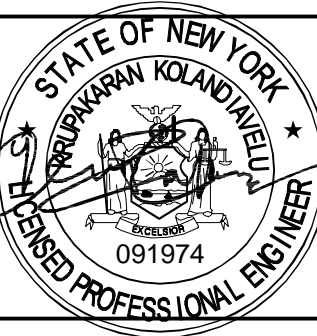
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SHEET TITLE

GROUNDING
DETAILS

SHEET NUMBER

G-2