

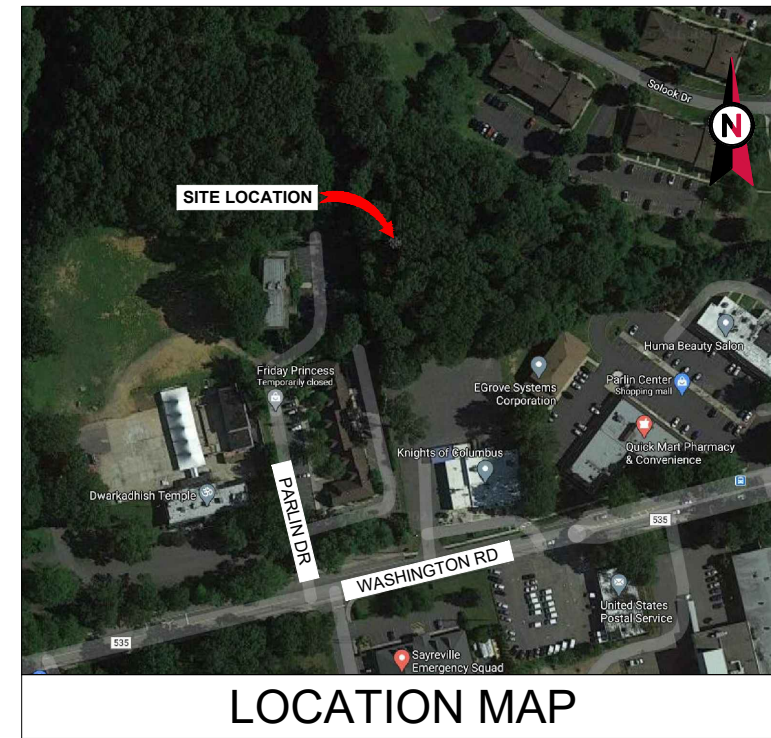
VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: PARLIN - SAYREVILLE  
 ATC SITE NUMBER: 373155  
 AT&T SEARCH RING: W-5836  
 AT&T PACE NUMBER: MRNYJ007953,  
 MRNYJ011805, MRNYJ011801, MRNYJ011847  
 AT&T SITE ID: NWL05836  
 AT&T FA CODE: 14652316  
 AT&T SITE NAME: PARLIN - NYCWNJ5836  
 SITE ADDRESS: 775 WASHINGTON ROAD  
 PARLIN, NJ 08859-0000

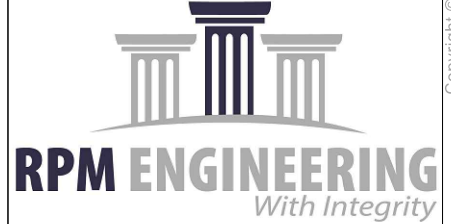
**AT&T MOBILITY COLOCATION PLAN**



LOCATION MAP



**AMERICAN TOWER®**  
 ATC TOWER SERVICES, LLC  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: 24GA28099400



REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21
B	REVISED PER COMMENTS	JPB	03/12/21

ATC SITE NUMBER:  
373155


ATC SITE NAME:  
PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:  
PARLIN - NYCWNJ5836

SITE ADDRESS:  
775 WASHINGTON ROAD  
PARLIN, NJ 08859-0000

SEAL:

C:\Users\jagade\Documents\Parlin NJ Seal\_w Signature.jpg



DATE DRAWN: 01/20/21  
 ATC JOB NO: 13325346\_G2  
 CUSTOMER ID: NWL05836  
 CUSTOMER #: 14652316

**TITLE SHEET**

SHEET NUMBER: **G-001**      REVISION: **B**

**COMPLIANCE CODE**

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

- 2018 INTERNATIONAL BUILDING CODE (IBC), NEW JERSEY EDITION
- 2017 NATIONAL ELECTRIC CODE (NEC)
- LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

**PROJECT SUMMARY**

SITE ADDRESS:  
 775 WASHINGTON ROAD  
 PARLIN, NJ 08859-0000  
 COUNTY: MIDDLESEX

GEOGRAPHIC COORDINATES:  
 LATITUDE: 40.46313889  
 LONGITUDE: -74.33  
 GROUND ELEVATION: 114' AMSL

**PROJECT TEAM**

<u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801	<u>APPLICANT:</u> AT&T MOBILITY
<u>ENGINEER:</u> RPM ENGINEERING LLC 875 KINGS HIGHWAY, SUITE 209 WEST DEPTFORD, NJ 08096	
<u>PROPERTY OWNER:</u> COLUMBUS CLUB 775 WASHINGTON ROAD - PARLIN - NJ - 08859	
AMERICAN TOWER 116 HUNTINGTON AVE BOSTON, MA 02116	

**PROJECT DESCRIPTION**

THE PROPOSED PROJECT INCLUDES INSTALLING EQUIPMENT CABINETS AND A GENERATOR ON A PROPOSED CONCRETE PAD INSIDE A 10' X 30' GROUND SPACE WITHIN THE EXISTING COMPOUND, AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING TOWER.

- PROJECT NOTES**
- THE FACILITY IS UNMANNED.
  - A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
  - THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
  - NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
  - HANDICAP ACCESS IS NOT REQUIRED.

**PROJECT LOCATION DIRECTIONS**

FROM NORTH JERSEY/NY AREA -TAKE NJ TURNPIKE SOUTH TO ROUTE 9 SOUTH TO ERNSTON RD WEST TO WASHINGTON MAKE RIGHT ,MAKE A RIGHT ON SHREE TOWARD HISH TEMPLE. TOWER IS ON RIGHT.

SHEET INDEX		REV:	DATE:	BY:
SHEET NO:	DESCRIPTION:			
G-001	TITLE SHEET	B	03/12/12	JPB
G-002	GENERAL NOTES	A	01/25/21	RW
C-001	OVERALL SITE PLAN	A	01/25/21	RW
C-101	DETAILED SITE PLAN	B	03/12/12	JPB
C-102	DETAILED EQUIPMENT LAYOUT	B	03/12/12	JPB
C-201	TOWER ELEVATION	A	01/25/21	RW
C-401	ANTENNA INFORMATION & SCHEDULE	B	03/12/12	JPB
C-501	MOUNT DETAILS	B	03/12/12	JPB
C-502	CONSTRUCTION DETAILS	B	03/12/12	JPB
C-503	CONSTRUCTION DETAILS	A	01/25/21	RW
C-504	CONSTRUCTION DETAILS	B	03/12/12	JPB
C-505	GENERATOR SPECIFICATIONS	A	01/25/21	RW
E-101	GROUNDING DETAILS & ELECTRICAL SCHEMATIC	B	03/12/12	JPB
E-102	GROUNDING DETAIL	A	01/25/21	RW
E-501	GROUNDING DETAILS	A	01/25/21	RW
E-601	PANEL SCHEDULE	A	01/25/21	RW
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			
R-606	SUPPLEMENTAL			

**UTILITY COMPANIES**

POWER COMPANY: FIRST ENERGY COS  
PHONE: (888) 544-4877

TELEPHONE COMPANY: VERIZON  
PHONE: (800) 837-4966



**Know what's below.  
Call before you dig.**

**GENERAL CONSTRUCTION NOTES:**

- OWNER FURNISHED MATERIALS, AT&T MOBILITY "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
  - AC/TELCO INTERFACE BOX (PPC)
  - ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - TOWERS, MONOPOLES
  - TOWER LIGHTING
  - GENERATORS & LIQUID PROPANE TANK
  - ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - ANTENNAS (INSTALLED BY OTHERS)
  - TRANSMISSION LINE
  - TRANSMISSION LINE JUMPERS
  - TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - TRANSMISSION LINE GROUND KITS
  - HANGERS
  - HOISTING GRIPS
  - BTS EQUIPMENT
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T MOBILITY TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSII/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T MOBILITY REP AND ENGINEER OF RECORD IMMEDIATELY.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH AT&T MOBILITY AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL

- ALL ITEMS PROVIDED.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
  - CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
  - CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
  - ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
  - THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
  - CONTRACTOR SHALL NOTIFY AT&T MOBILITY REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
  - THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
  - ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
  - IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
  - AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNGRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
  - AT&T MOBILITY OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER.

**STRUCTURAL STEEL NOTES:**

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
  - ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
  - ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
  - ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
  - ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
  - ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- CONNECTIONS:

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
- ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T- MOBILE PROJECT MANAGER IN WRITING

**SPECIAL CONSTRUCTION**

**ANTENNA INSTALLATION NOTES:**

- WORK INCLUDED:
  - ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
  - INSTALL ANTENNA AS INDICATE ON DRAWINGS AND AT&T MOBILITY SPECIFICATIONS.
  - INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
  - INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
  - CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
  - INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
  - ANTENNA AND COAXIAL CABLE GROUNDING:
- ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
- ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

**CONCRETE AND REINFORCING STEEL NOTES:**

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
- MIX DESIGN SHALL BE APPROVED BY AT&T MOBILITY REP PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
- THE FOLLOWING MATERIALS SHALL BE USED:
  - PORTLAND CEMENT: ASTM C150, TYPE 2
  - REINFORCEMENT: ASTM A185, PLAIN STEEL WELDED WIRE FABRIC
  - REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED
  - NORMAL WEIGHT AGGREGATE: ASTM C33
  - WATER: ASTM C 94/C 94M
  - WELDED WIRE FABRIC: ASTM A185
  - ADMIXTURES:

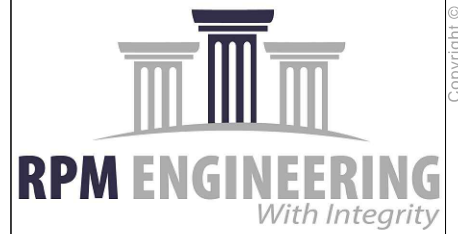
- WATER-REDUCING AGENT: ASTM C 494/C 494M, TYPE A
  - AIR-ENTERING AGENT: ASTM C 260/C 260M
  - SUPERPLASTICIZER: ASTM C494, TYPE F OR TYPE G
  - RETARDING: ASTM C 494/C 494M, TYPE B
- MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
  - A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
  - INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE.

- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- FOR COLD-WEATHER (ACI 306) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
- ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
- SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
- LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS.
- SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".
- BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.
- SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.

**ELECTRICAL NOTES:**

- ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
- ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

**ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.**



REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21

ATC SITE NUMBER:  
**373155**

ATC SITE NAME:  
**PARLIN - SAYREVILLE**

AT&T MOBILITY SITE NAME:  
**PARLIN - NYCWNJ5836**

SITE ADDRESS:  
775 WASHINGTON ROAD  
PARLIN, NJ 08859-0000

SEAL:

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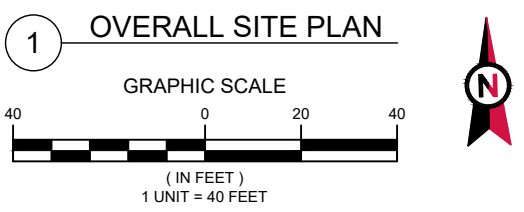
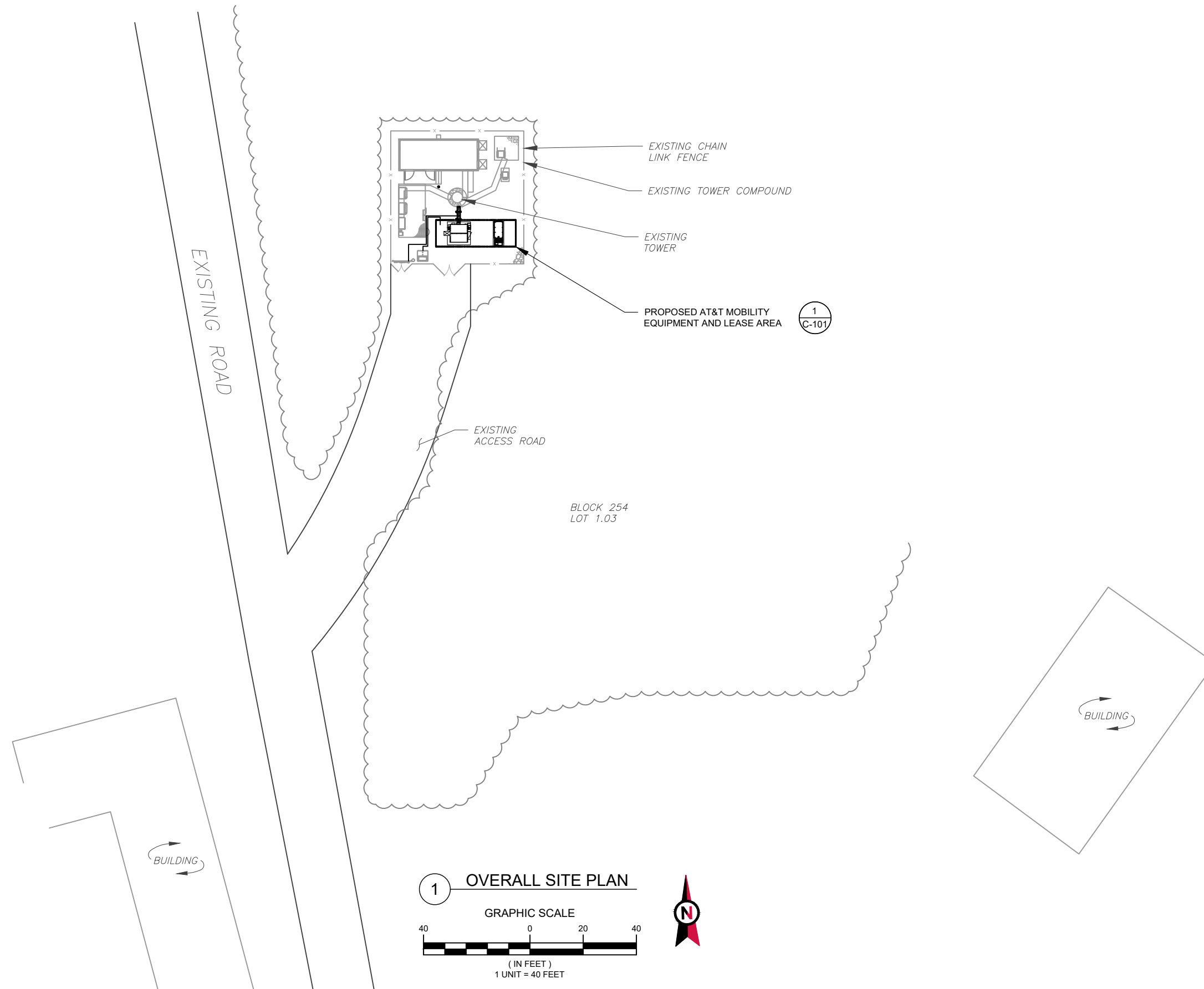
DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

<b>GENERAL NOTES</b>	
SHEET NUMBER: <b>G-002</b>	REVISION: <b>A</b>

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**LEGEND**

	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING LEASE AREA
	EXISTING EASEMENT
	EXISTING WOOD FENCE
	EXISTING WIRE FENCE
	EXISTING METAL FENCE
	EXISTING GUARD RAIL
	EXISTING CHAINLINK FENCE
	EXISTING ROAD (DIRT)
	EXISTING ROAD (STONE)
	EXISTING ROAD (PAVED)



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 COA: 24GA28099400

**RPM ENGINEERING**  
*With Integrity*

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21

ATC SITE NUMBER:  
**373155**

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AT&T MOBILITY SITE NAME:  
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775 WASHINGTON ROAD  
PARLIN, NJ 08859-0000

SEAL:

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DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**OVERALL SITE PLAN**

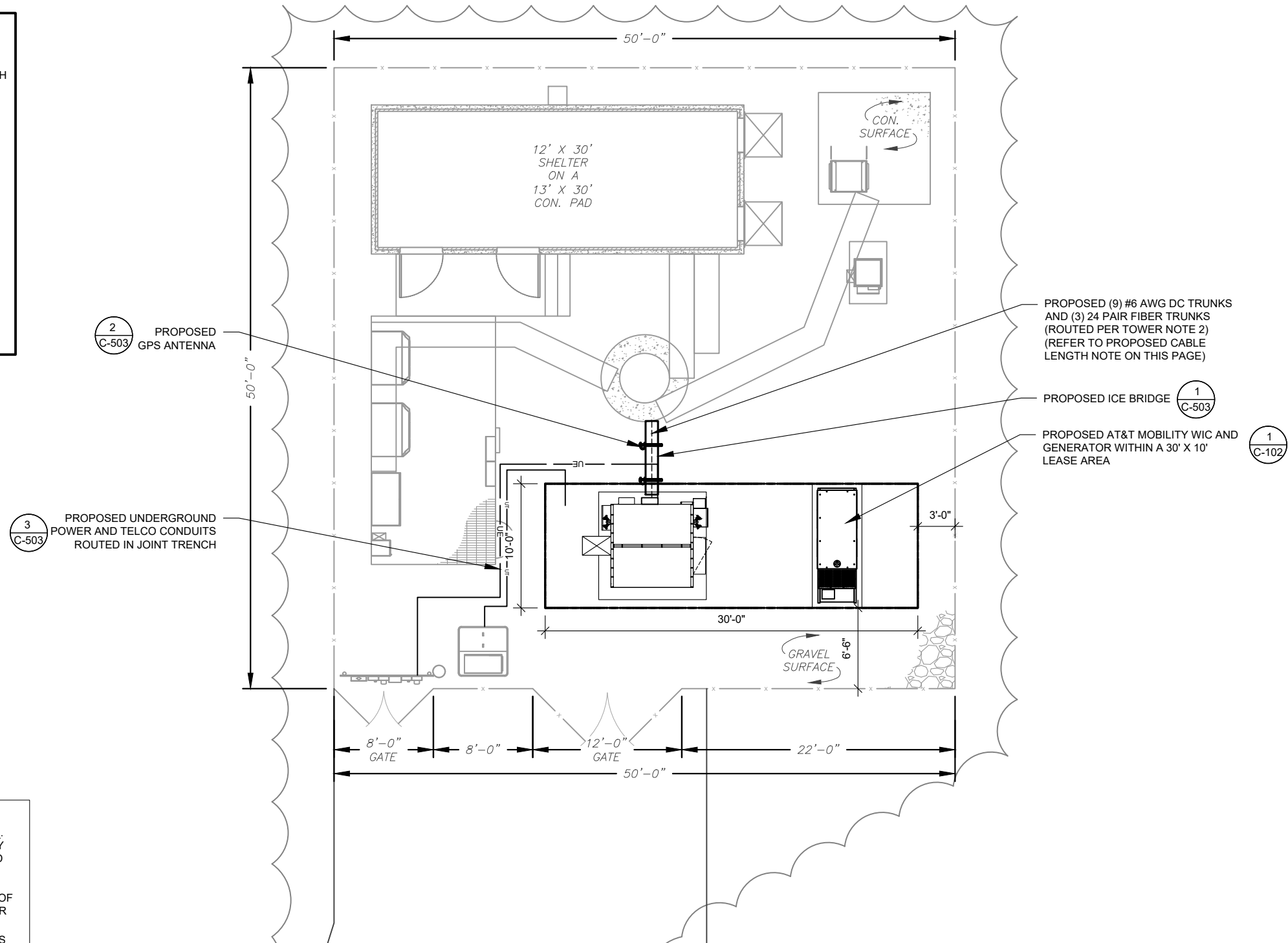
SHEET NUMBER: <b>C-001</b>	REVISION: <b>A</b>
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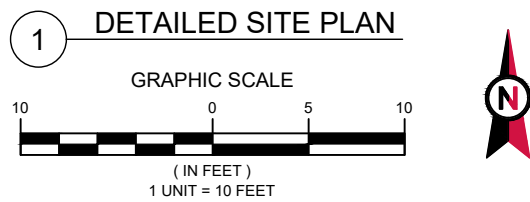
**SITE PLAN NOTES:**

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE AT&T MOBILITY REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
— x —	CHAINLINK FENCE



- PROPOSED CABLE LENGTH:**
- ESTIMATED LENGTH OF PROPOSED CABLE IS 115'. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
  - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.



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 COA: 24GA28099400

**RPM ENGINEERING**  
*With Integrity*

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21
B	REVISED PER COMMENTS	JPB	03/12/21

ATC SITE NUMBER:  
**373155**

ATC SITE NAME:  
**PARLIN - SAYREVILLE**

AT&T MOBILITY SITE NAME:  
**PARLIN - NYCWNJ5836**

SITE ADDRESS:  
 775 WASHINGTON ROAD  
 PARLIN, NJ 08859-0000

SEAL:

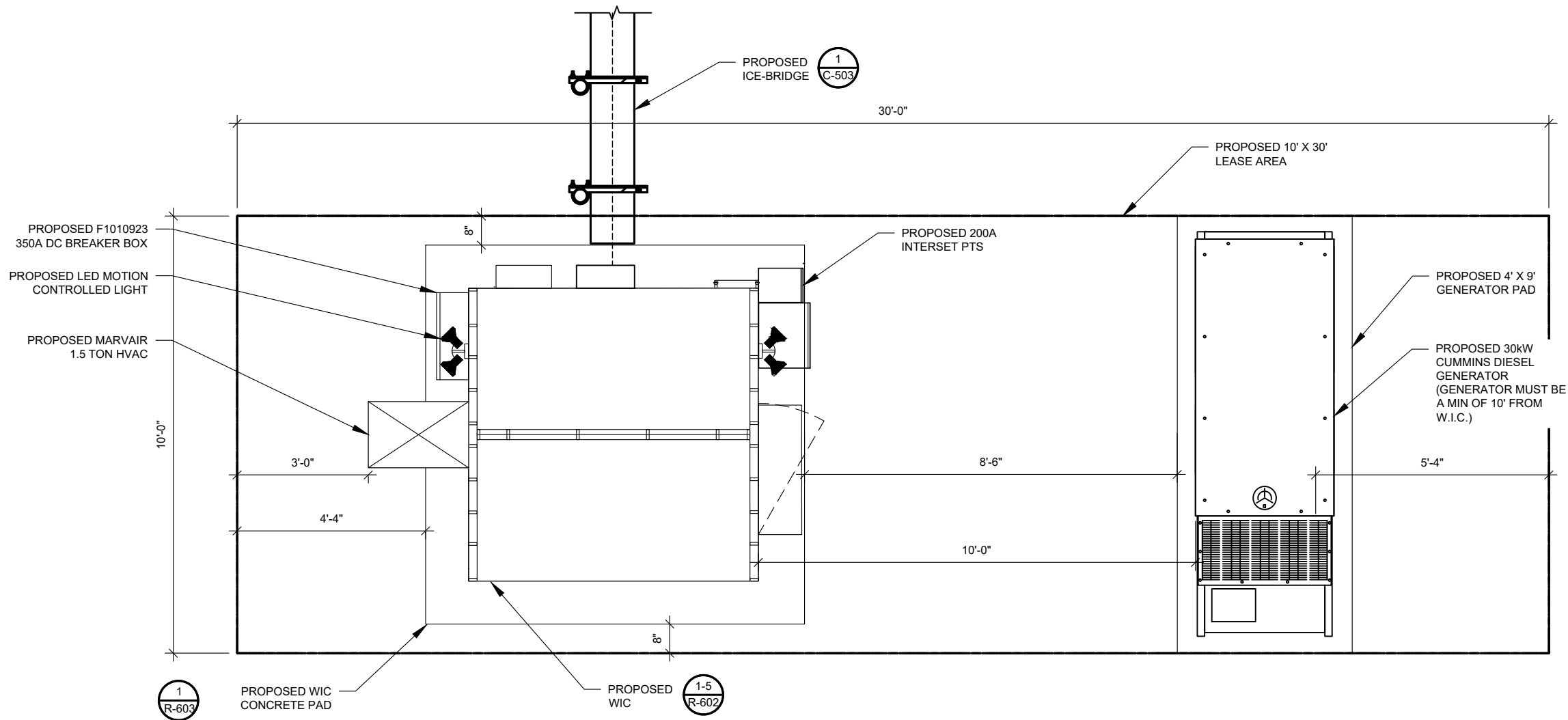
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DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

DETAILED SITE PLAN	
SHEET NUMBER: <b>C-101</b>	REVISION: <b>B</b>

**GROUND SOW**

- INSTALL VERTIV WIC W/ VERTIV 7100 PP, (8) RECTIFIERS, & (0) CONVERTERS
- INSTALL (1) FSM4 AMIA IN FIF
- INSTALL (1) 5G AMIA IN FIF
- INSTALL (1) DC12RM IN FIF
- INSTALL (2) FIBER TRAYS IN FIF
- INSTALL (2) FMBS AT ICEBRIDGE



**1 DETAILED EQUIPMENT LAYOUT**  
SCALE: NOT TO SCALE



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SEAL:

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DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**DETAILED EQUIPMENT LAYOUT**

SHEET NUMBER:	REVISION:
<b>C-102</b>	<b>B</b>

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TOP OF EXISTING  
HIGHEST APPURTENANCE  
ELEV: 128'  
TOP OF EXISTING TOWER  
ELEV: 125'

1  
C-501  
PROPOSED AT&T  
MOBILITY ANTENNAS  
(SEE TOWER NOTE 2)

3  
C-501  
PROPOSED  
ANTENNA  
MOUNT

EXISTING CARRIER ANTENNAS  
RAD CENTER @ 120'

EXISTING CARRIER ANTENNAS  
RAD CENTER @ 111'

PROPOSED AT&T MOBILITY  
RAD CENTER @ 100'

EXISTING TOWER

EXISTING TOP  
OF BASE PLATE

1 TOWER ELEVATION  
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY ESHA MODI, DATED JANUARY 12, 2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

TOWER NOTE:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



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**RPM ENGINEERING**  
With Integrity

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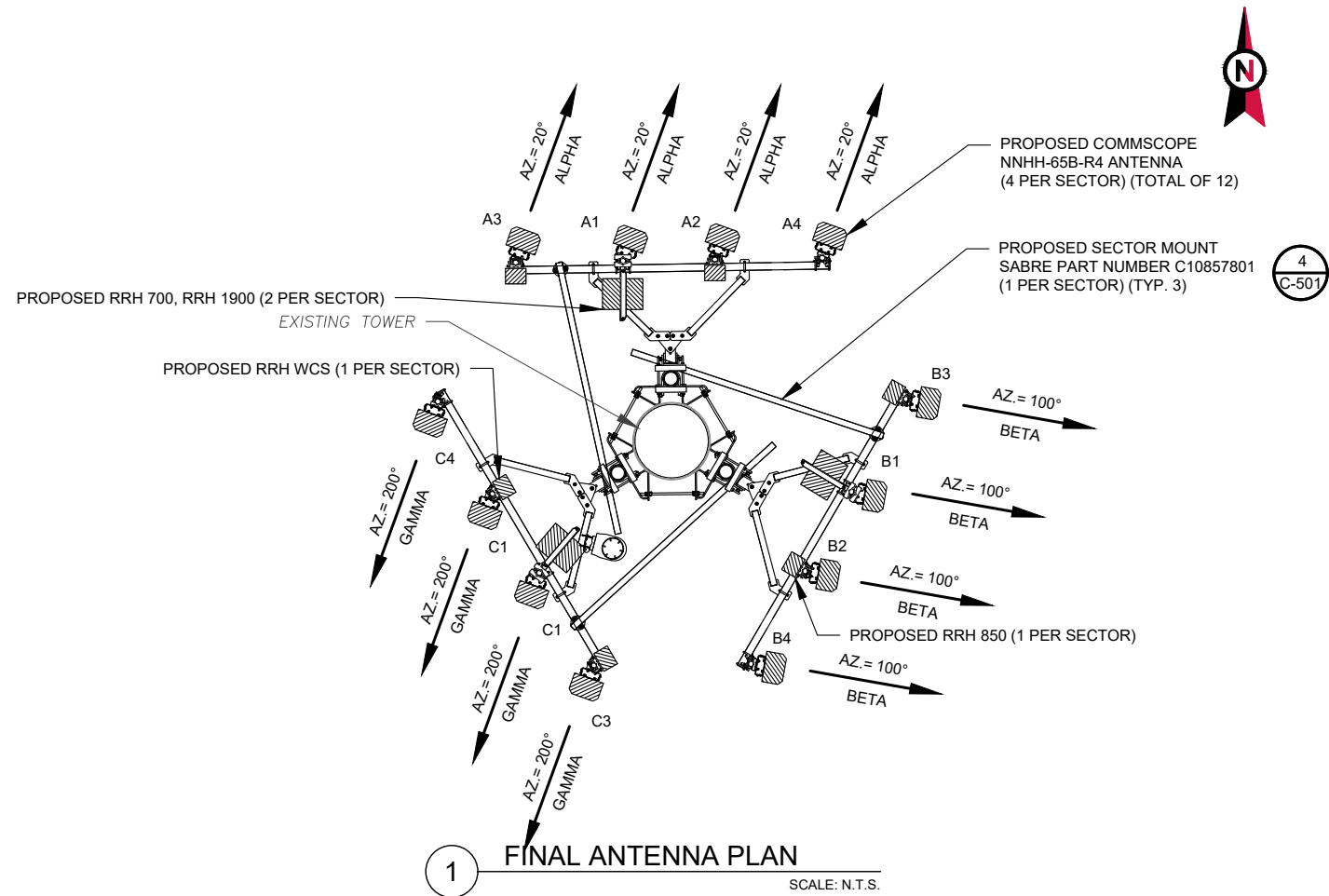


DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

DETAILED SITE PLAN &  
TOWER ELEVATION

SHEET NUMBER: <b>C-201</b>	REVISION: <b>B</b>
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FINAL ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	100'	20°	A3	NNHH-65B-R4	RRH-WCS	0	ADD	AIRSCALE RRH 4T4R B30 100W AHNA	ADD
			A1	NNHH-65B-R4	RRH-700, RRH-1900	0	ADD	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA, AIRSCALE DUAL RRH 4T4R B25 / 66 320W AHFIB	ADD
			A2	NNHH-65B-R4	RRH-850	0	ADD	AIRSCALE RRH 4T4R B5 160W AHCA	ADD
			A4	NNHH-65B-R4	-	0	ADD	-	-
BETA	100'	100°	B3	NNHH-65B-R4	RRH-WCS	0	ADD	AIRSCALE RRH 4T4R B30 100W AHNA	ADD
			B1	NNHH-65B-R4	RRH-700, RRH-1900	0	ADD	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA, AIRSCALE DUAL RRH 4T4R B25 / 66 320W AHFIB	ADD
			B2	NNHH-65B-R4	RRH-850	0	ADD	AIRSCALE RRH 4T4R B5 160W AHCA	ADD
			B4	NNHH-65B-R4	-	0	ADD	-	-
GAMMA	100'	200°	C3	NNHH-65B-R4	RRH-WCS	0	ADD	AIRSCALE RRH 4T4R B30 100W AHNA	ADD
			C1	NNHH-65B-R4	RRH-700, RRH-1900	0	ADD	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA, AIRSCALE DUAL RRH 4T4R B25 / 66 320W AHFIB	ADD
			C2	NNHH-65B-R4	RRH-850	0	ADD	AIRSCALE RRH 4T4R B5 160W AHCA	ADD
			C4	NNHH-65B-R4	-	0	ADD	-	-

CABLE LENGTHS FOR JUMPERS  
FIBER DISTRIBUTION/OVP TO RRU: 15'  
RRU TO COMBINER: 10'  
COMBINER TO ANTENNA: 10'

PROPOSED FIBER DISTRIBUTION/OVP BOX		PROPOSED CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	FIBER/DC TRUNKS	STATUS
24-PAIR	ADD	-	(3) FIBER TRUNKS	ADD
6 AWG 6	ADD	-	(9) DC TRUNKS	ADD

1. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.  
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

**2 ANTENNA SCHEDULE**

(5) 2" INNERDUCTS [(3) WITH (1) FIBER & (2) DC TRUNKS, (1) WITH (2) DC TRUNKS, AND (1) WITH (1) DC TRUNK]

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373155

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PARLIN - SAYREVILLE

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SITE ADDRESS:  
775 WASHINGTON ROAD  
PARLIN, NJ 08859-0000

SEAL:

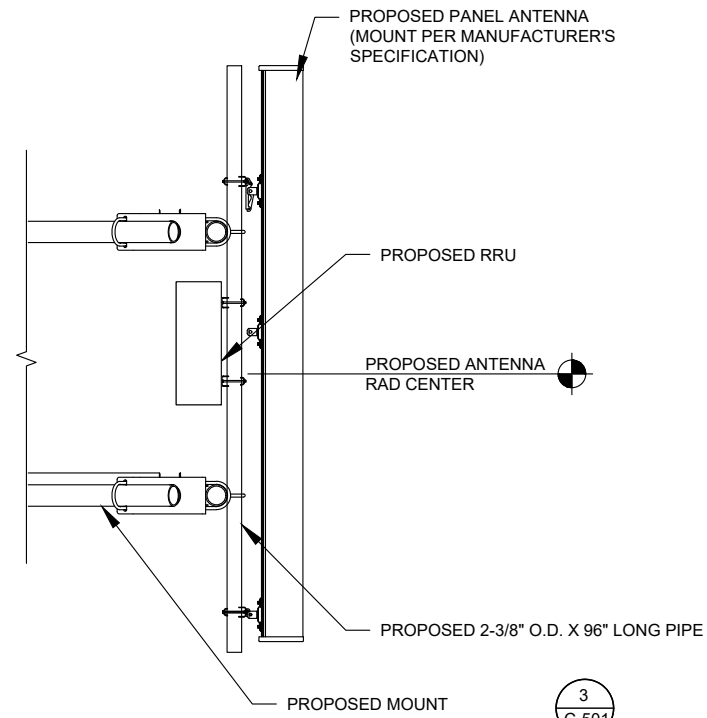


DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**ANTENNA INFORMATION & SCHEDULE**

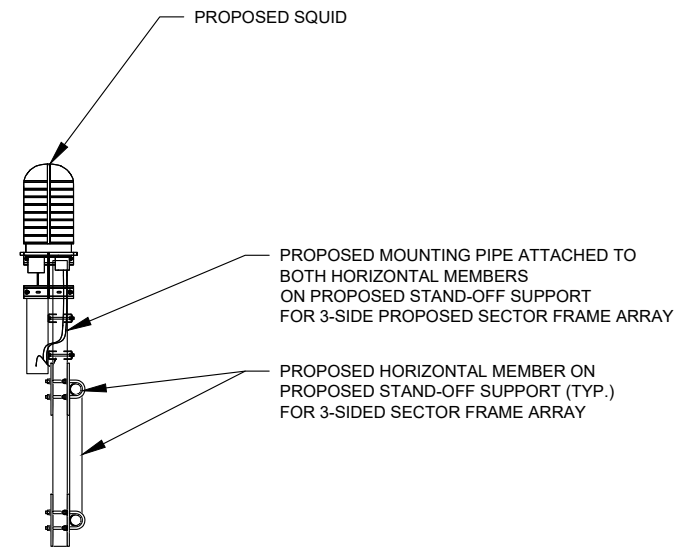
SHEET NUMBER:  
**C-401**

REVISION:  
**B**

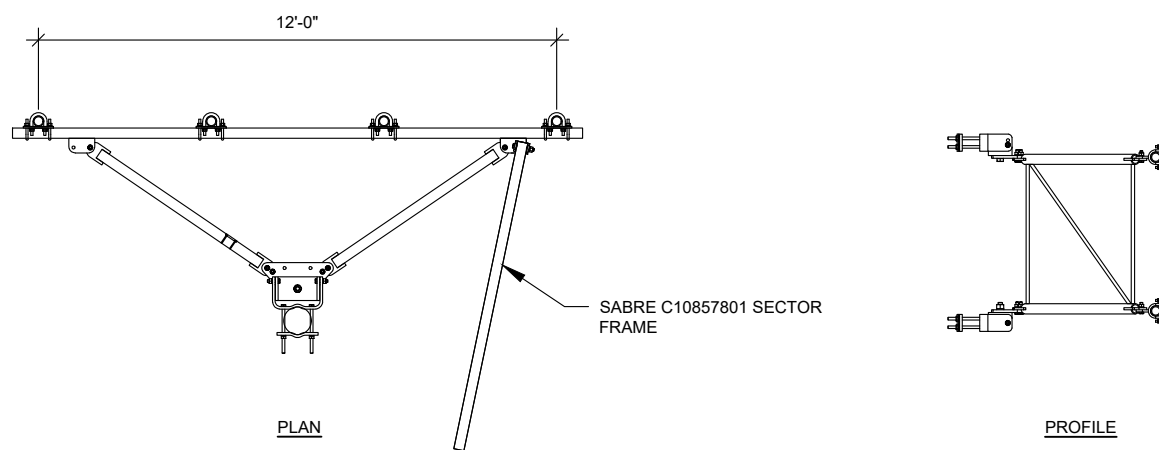


1 PROPOSED ANTENNA MOUNTING DETAIL (ELEVATION)  
SCALE: NOT TO SCALE

3  
C-501



2 PROPOSED OVP MOUNTING  
SCALE: NOT TO SCALE



3 SECTOR FRAME DETAIL  
SCALE: N.T.S.

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**RPM ENGINEERING**  
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SEAL:



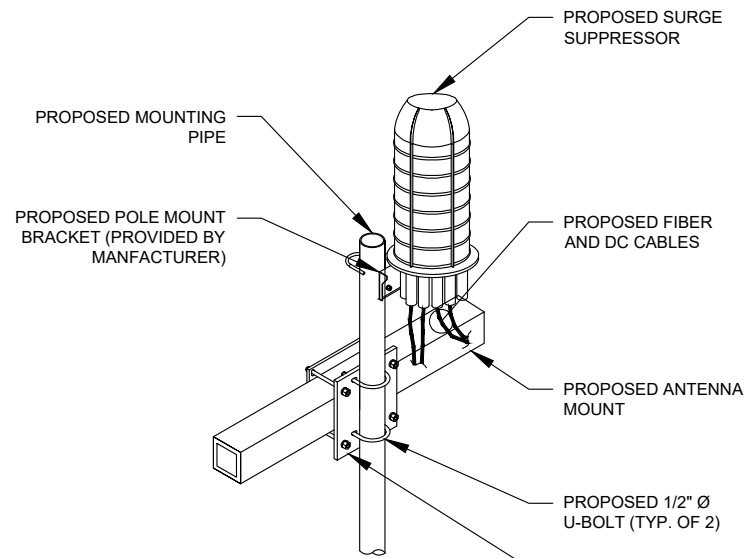
DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**CONSTRUCTION  
DETAILS**

SHEET NUMBER:  
**C-501**

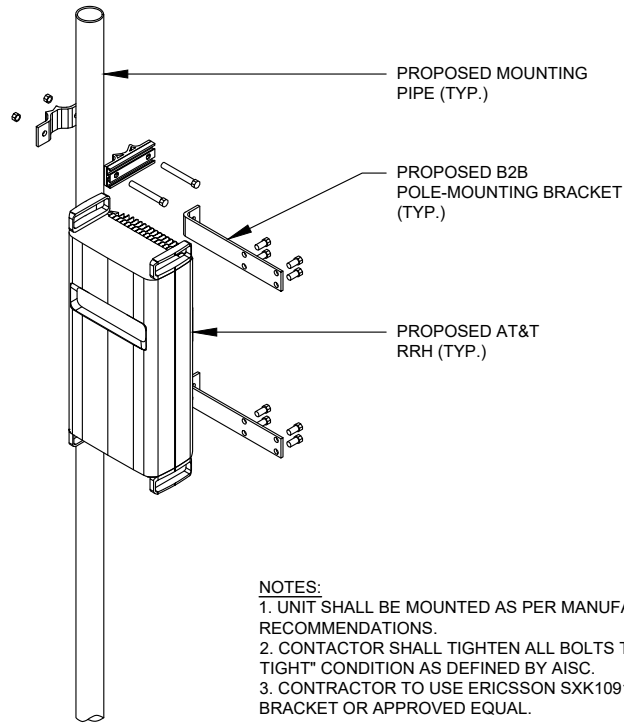
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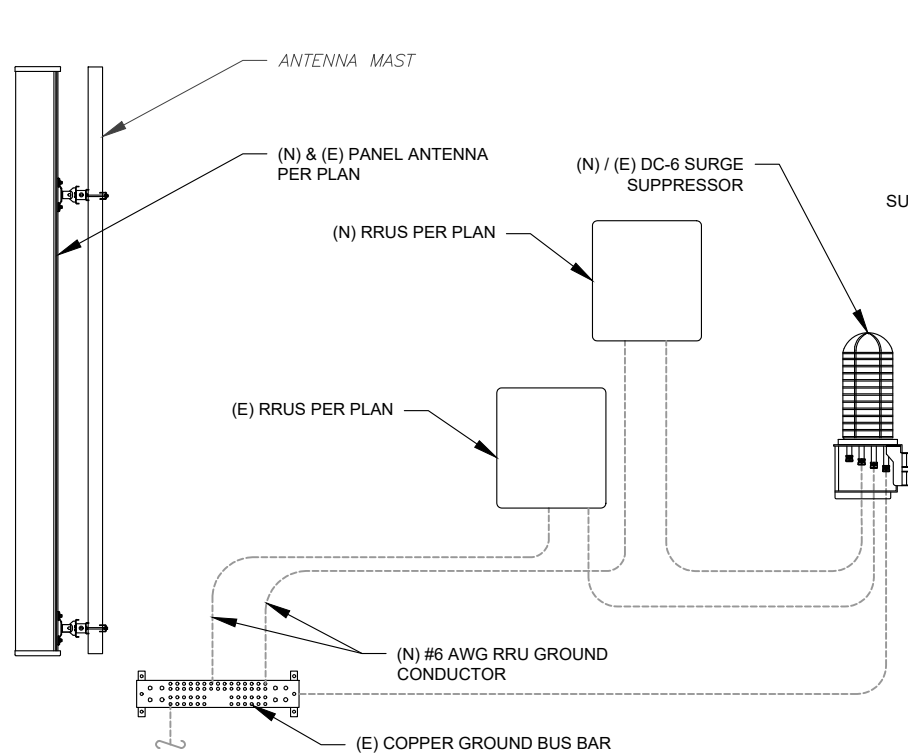
**NOTES:**  
 1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.  
 2. CONTACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.  
 3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRH'S.

**1 SURGE MOUNTING DETAIL**  
 SCALE: N.T.S.

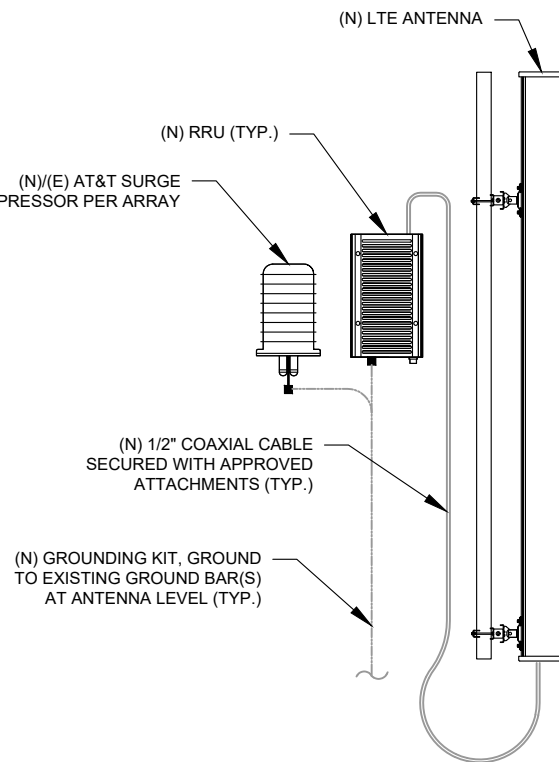


**NOTES:**  
 1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.  
 2. CONTACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.  
 3. CONTRACTOR TO USE ERICSSON SXK1091946/1 B2B BRACKET OR APPROVED EQUAL.

**2 RRU MOUNTING DETAIL**  
 SCALE: N.T.S.

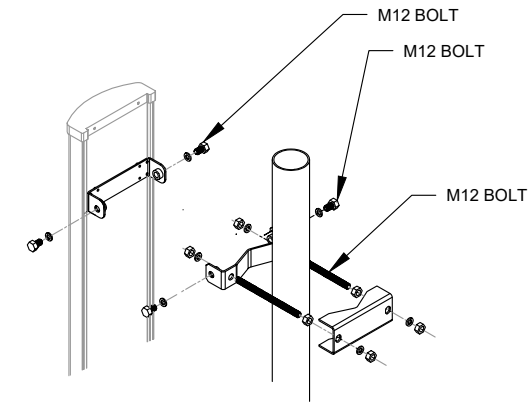


**3 ANTENNA/RRU GROUNDING**  
 SCALE: N.T.S.

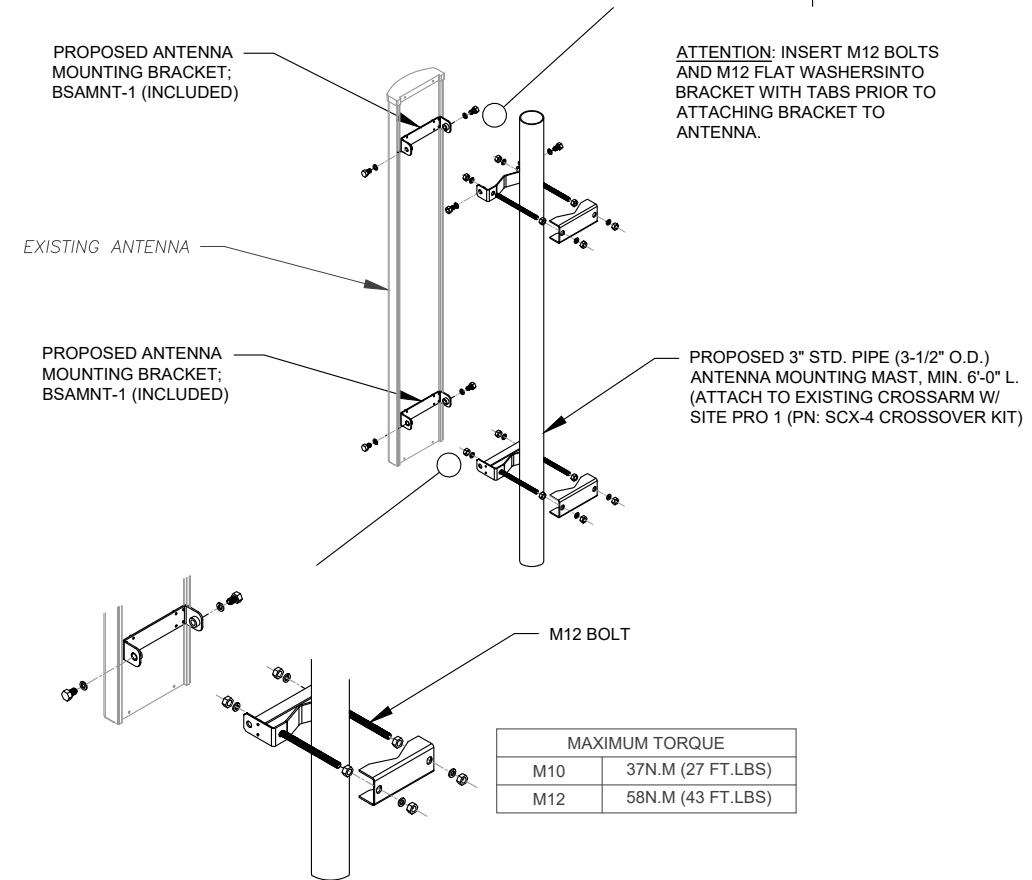


**4 ANTENNA/RRU GROUNDING**  
 SCALE: N.T.S.

MAXIMUM TORQUE	
M8	15N.M (27 FT.LBS)
M10	37N.M (27 FT.LBS)
M12	58N.M (43 FT.LBS)



**ATTENTION:** INSERT M12 BOLTS AND M12 FLAT WASHERS INTO BRACKET WITH TABS PRIOR TO ATTACHING BRACKET TO ANTENNA.



MAXIMUM TORQUE	
M10	37N.M (27 FT.LBS)
M12	58N.M (43 FT.LBS)

**5 ANTENNA MOUNTING DETAIL**  
 SCALE: N.T.S.

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SEAL:



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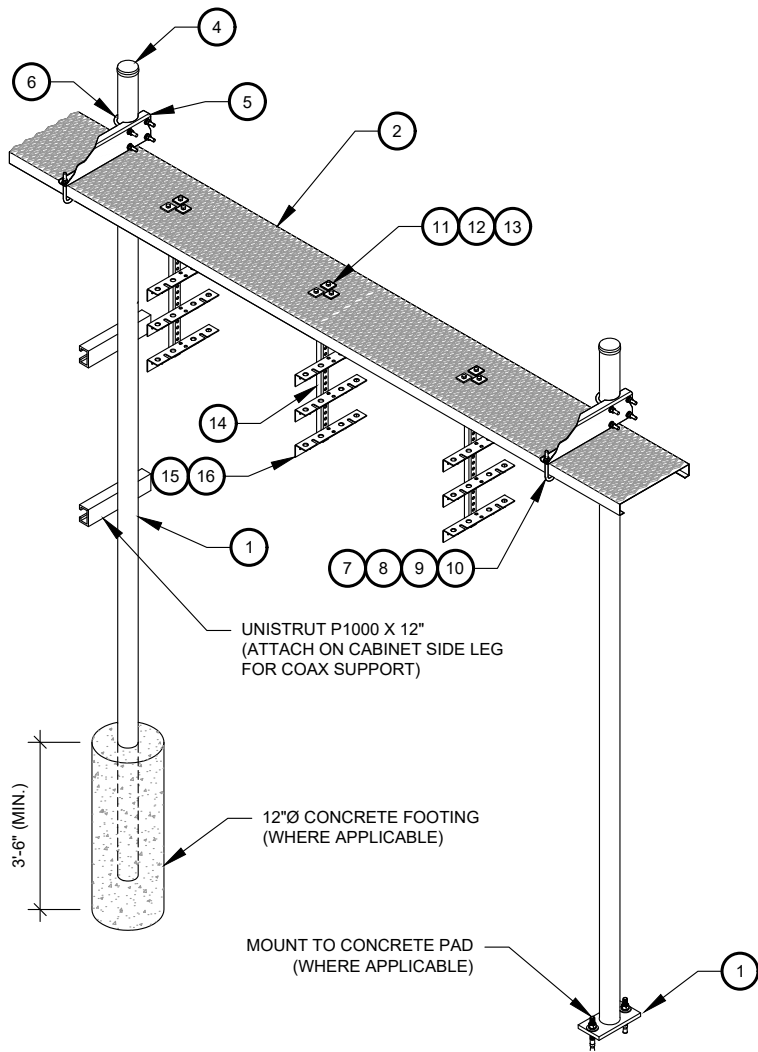
**CONSTRUCTION  
 DETAILS**

SHEET NUMBER:	REVISION:
<b>C-502</b>	<b>B</b>

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**CONSTRUCTION NOTE:**

1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.

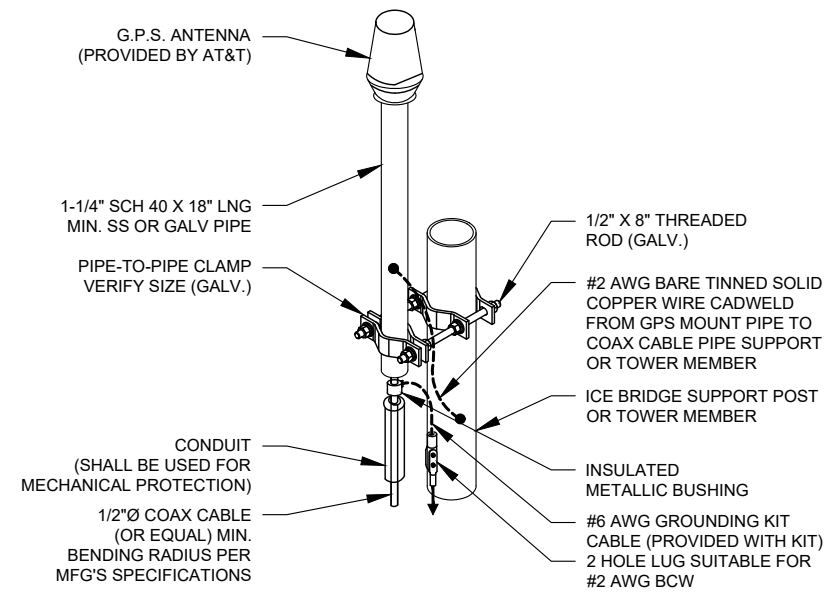


WB-K210-B WAVEGUIDE BRIDGE KIT - BILL OF MATERIALS (INCLUDED WITH KIT UNLESS NOTED OTHERWISE)

ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	MF126.01 MF-130	10'-4" COLUMN & BASE SHOE* 13'-4" PIPE COLUMN	9	GWL-04	1/2" GALV LOCK WASHER
2	WB-CY210	SAFETY GRATING 24" X 10'	10	GN-04	1/2" GALV HEX NUT
3	WBK110BHK	HARDWARE KIT (ITEMS 4-16)	11	GB-03205	3/8" X 2" GALV BOLT KIT
4	PC-034	PIPE CAP 3-1/2"	12	MT-387	SQUARE WASHER, 1-1/2" X 1-1/2" W/ 7/16" HOLE
5	WBLB243.08	24" WAVEGUIDE BRIDGE SUPPORT BRACKET	13	GWF-03	3/8" GALV FLAT WASHER
6	GUB-4356	1/2" X 3-5/8" X 6" GALV U-BOLT	14	WBT243.01	VERTICAL TRAPEZE SECTION
7	WB-JB-6	1/2" J-BOLT	15	GB-03105	3/8" X 1" GALV BOLT KIT
8	GWF-04	1/2" GALV FLAT WASHER	16	WBT243.02	HORIZONTAL TRAPEZE SECTION

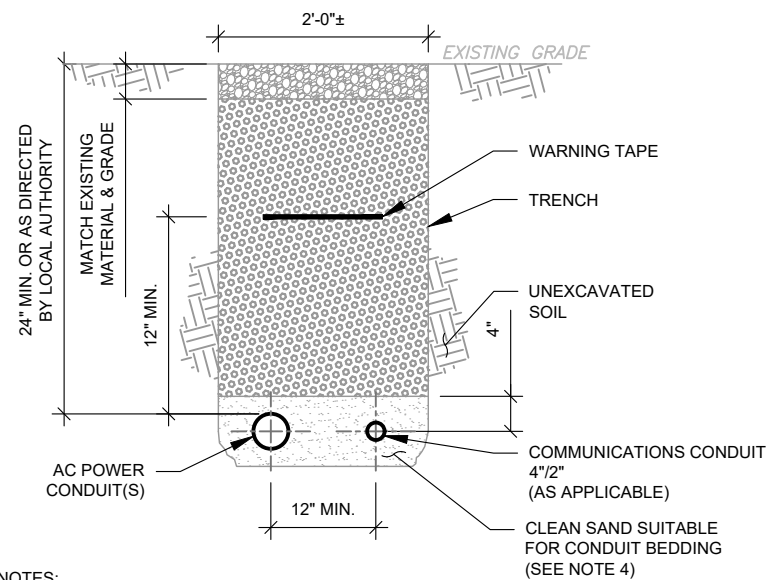
CONTRACTOR SHALL USE PARTS MANUFACTURED BY COMMSCOPE OR APPROVED EQUIVALENT.  
\*BASE SHOE NOT INCLUDED IN WB-K210-B KIT, ORDER COLUMN SEPARATELY OR KIT WB-K210-S.

**1** WAVEGUIDE BRIDGE KIT  
SCALE: NOT TO SCALE



- NOTE:
1. GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
  2. CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.

**2** GPS ANTENNA ATTACHMENT DETAIL  
SCALE: NOT TO SCALE



**TRENCH NOTES:**

1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL.
2. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
4. USE COMMUNICATIONS ONLY TRENCH FOR COMMUNICATIONS CONDUIT UNLESS TRAVELING UNDER PATH OF VEHICLE TRAVEL, THEN CONDUIT MUST BE 24" MIN. BELOW GRADE.
5. CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS

**3** POWER/TELCO CONDUIT TRENCH DETAILS  
SCALE: N.T.S.

**AMERICAN TOWER®**  
ATC TOWER SERVICES, LLC  
3500 REGENCY PARKWAY  
SUITE 100  
CARY, NC 27518  
PHONE: (919) 468-0112  
COA: 24GA28099400

**RPM ENGINEERING**  
With Integrity

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21

ATC SITE NUMBER:  
373155

ATC SITE NAME:  
PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:  
PARLIN - NYCWNJ5836

SITE ADDRESS:  
775 WASHINGTON ROAD  
PARLIN, NJ 08859-0000

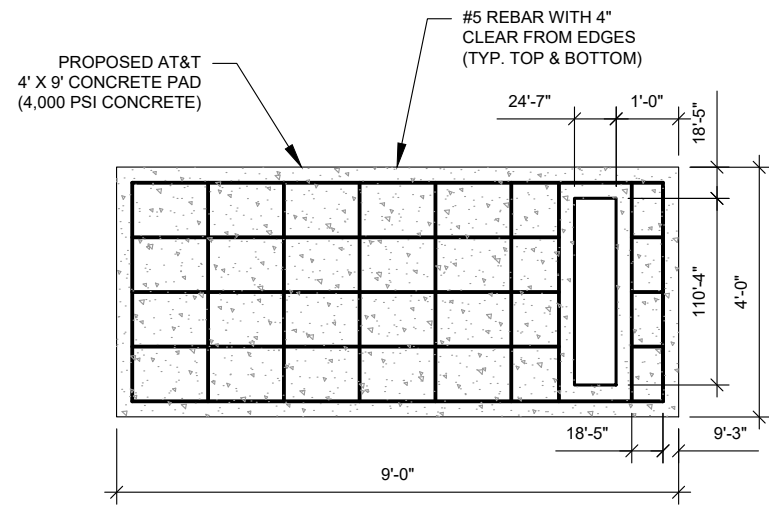
SEAL:

**AT&T**

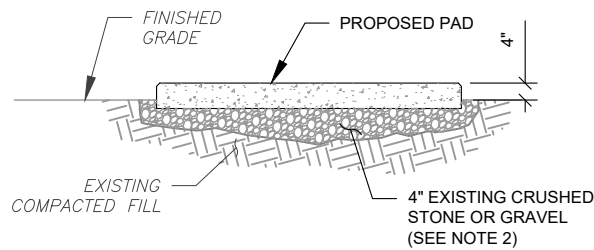
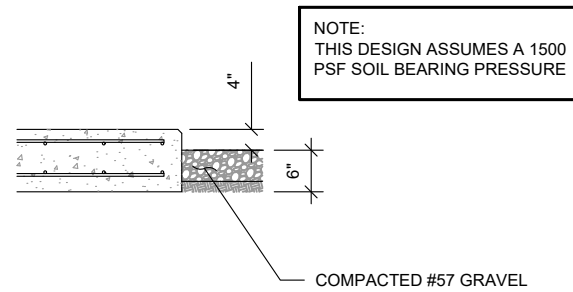
DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**CONSTRUCTION  
DETAILS**

SHEET NUMBER:	REVISION:
<b>C-503</b>	<b>A</b>



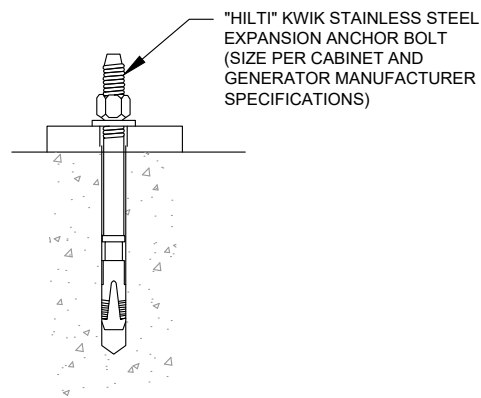
**1 CONCRETE GENERATOR PAD DESIGN**  
SCALE: N.T.S.



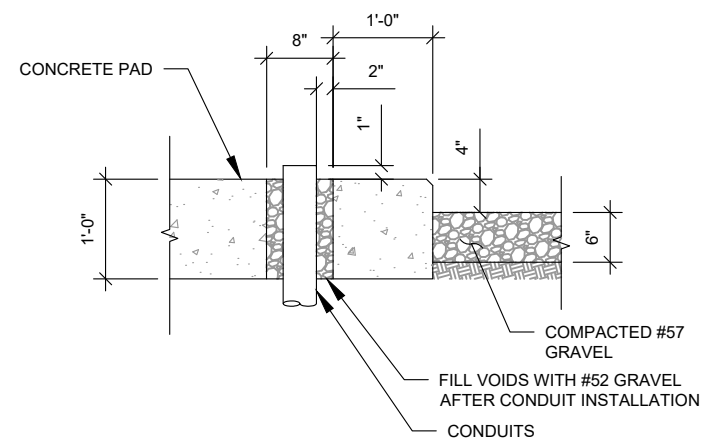
**PAD NOTES:**

1. SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. DELETERIOUS MATERIAL AND ORGANICS SHALL BE REMOVED.
2. MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2' PERIMETER.
3. USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT ANCHORAGE.
4. FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.

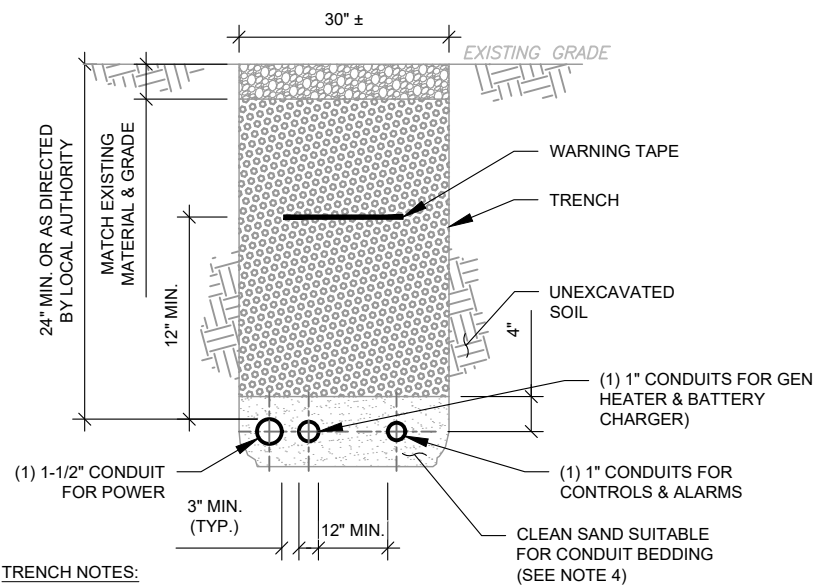
**3 GRAVEL PREPARATION**  
SCALE: NOT TO SCALE



**4 EXPANSION ANCHOR DETAIL**  
SCALE: N.T.S.



**2 GENERATOR CONDUIT STUB UP DETAIL**  
SCALE: N.T.S.



**TRENCH NOTES:**

1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL.
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5. CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS

**5 GENERATOR CONDUIT TRENCH DETAILS**  
SCALE: N.T.S.

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21

ATC SITE NUMBER:  
373155

ATC SITE NAME:  
PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:  
PARLIN - NYCWNJ5836

SITE ADDRESS:  
775 WASHINGTON ROAD  
PARLIN, NJ 08859-0000

SEAL:



DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**CONSTRUCTION  
DETAILS**

SHEET NUMBER:	REVISION:
<b>C-504</b>	<b>A</b>



REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21
B	REVISED PER COMMENTS	JPB	03/12/21

ATC SITE NUMBER:  
**373155**

ATC SITE NAME:  
**PARLIN - SAYREVILLE**

AT&T MOBILITY SITE NAME:  
**PARLIN - NYCWNJ5836**

SITE ADDRESS:  
 775 WASHINGTON ROAD  
 PARLIN, NJ 08859-0000

SEAL:

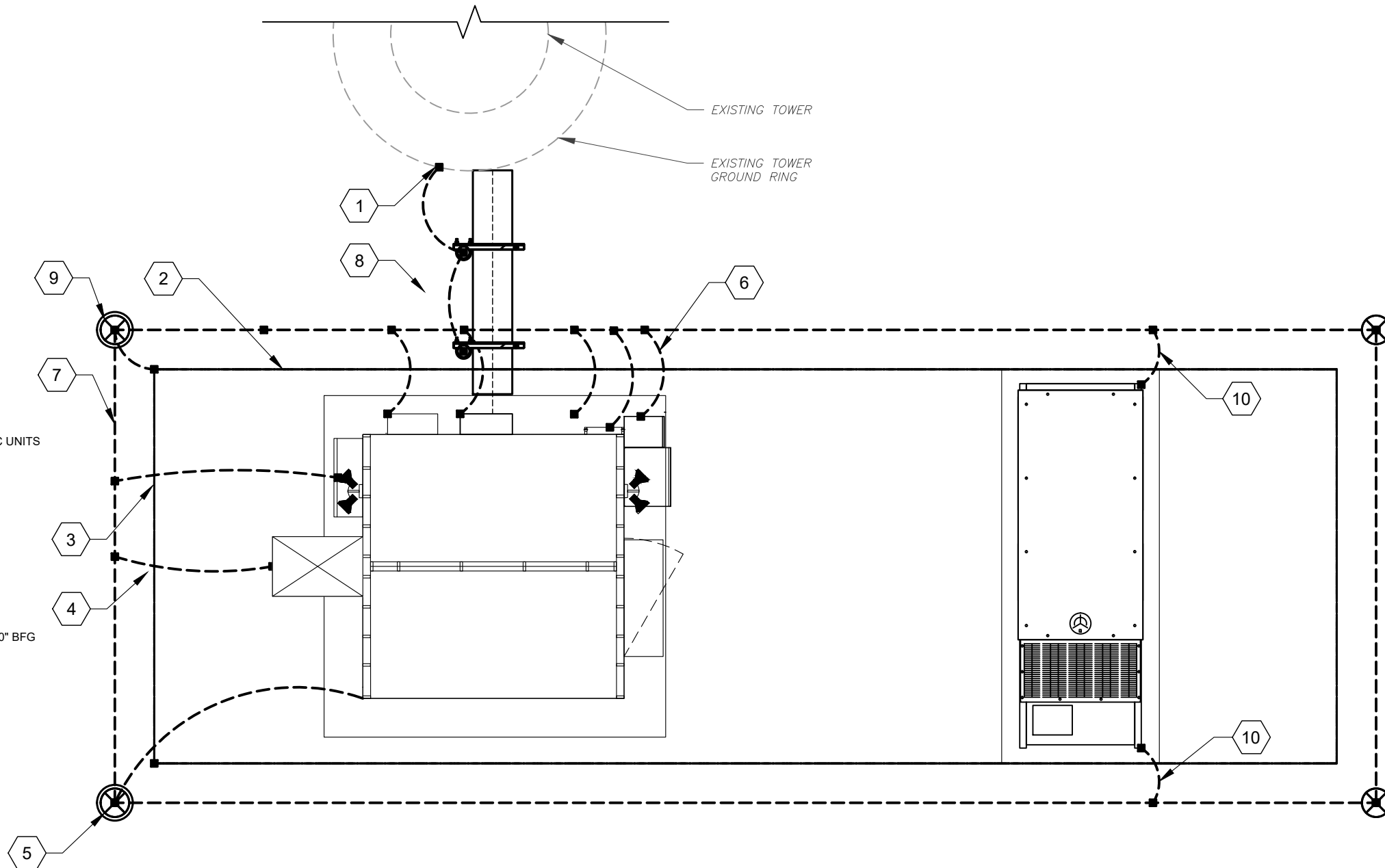
C:\Users\japilata\Documents\Parlin NJ Seal\_w Signature.jpg



DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**GROUNDING PLAN**

SHEET NUMBER:	REVISION:
<b>E-101</b>	<b>B</b>



**GROUNDING KEYED NOTES:**

- 1 BOND TO TOWER GROUND RING
- 2 #2 AWG RAYCAP BOND BURIED 30" BFG (TYP.)
- 3 #2 AWG DISCONNECT BOND BURIED 30" BFG (TYP.)
- 4 HVAC GROUNDING, MECHANICAL CONNECTIONS AT HVAC UNITS ABOVE GRADE AS ALLOWED BY CODE
- 5 5/8" X 10' COPPER GROUND ROD W/ INSPECTION WELL
- 6 #2 AWG ATS BOND BURIED 30" BFG (TYP.)
- 7 2" AWG GROUND RING BURIED 30" BFG
- 8 #2 AWG ICE BRIDGE BOND BURIED 30" BFG (TYP.)
- 9 5/8" X 10' COPPER GROUND ROD
- 10 #2 AWG GENERATOR AND TANK FRAMES BOND BURIED 30" BFG

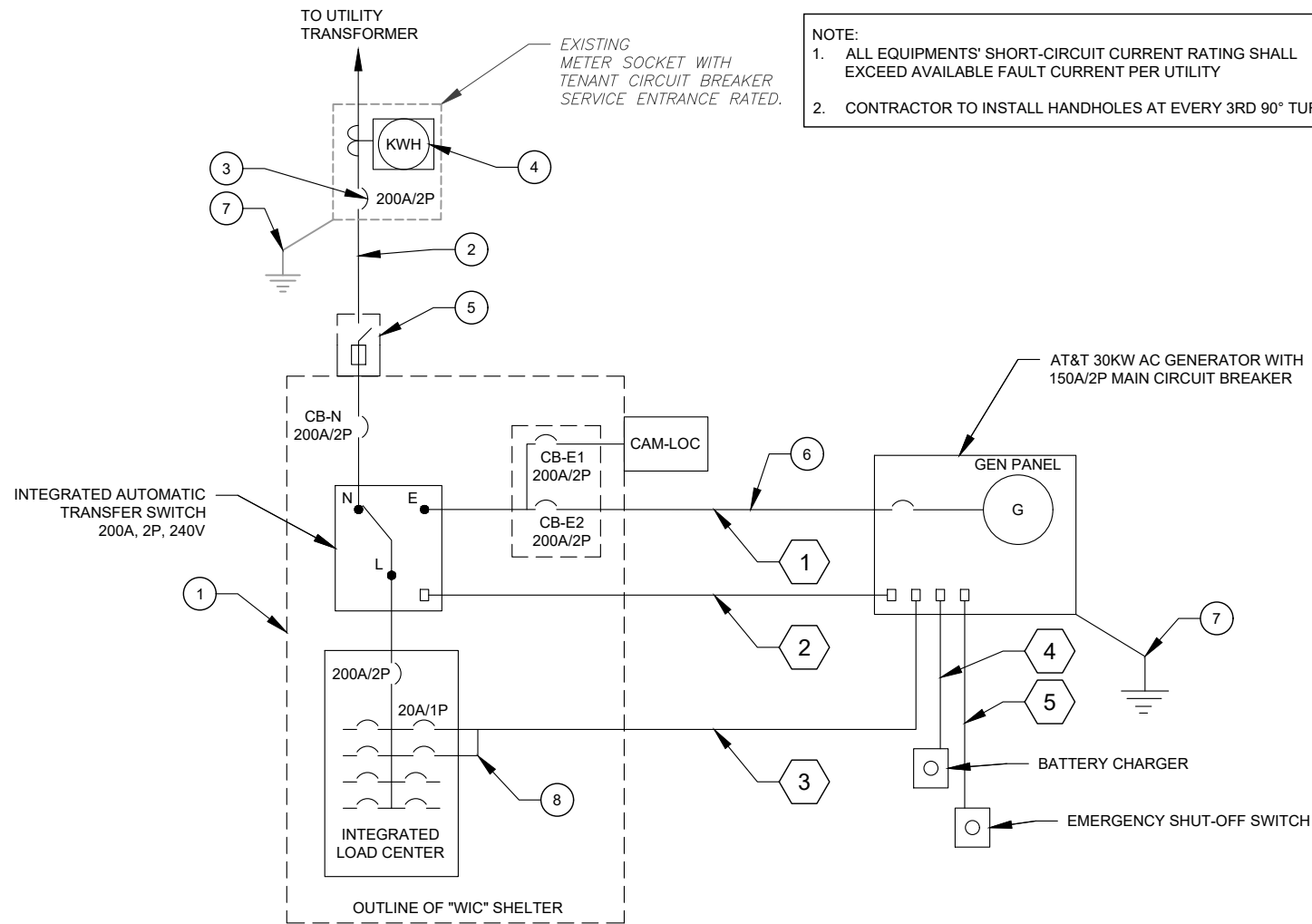
**1 DETAILED GROUNDING LAYOUT**  
 SCALE: NOT TO SCALE

**ELECTRICAL NOTES:**

- 1 POWER TRANSFER LOAD CENTER (PTLC) INCLUDES A CAM-LOC GENERATOR CONNECTION PANEL, AND ATS, A MECHANICALLY INTERLOCKED TRANSFER SWITCH, A 200A 42 CIRCUIT PANEL AND SURGE SUPPRESSION.
- 2 CONTRACTOR SHALL FURNISH AND INSTALL POWER CONDUCTORS (3#3/0, #6 G IN 2" C) FROM METER CENTER TO SHELTER. METER WILL BE FURNISHED AND INSTALLED BY LOCAL UTILITY COMPANY.
- 3 CONTRACTOR SHALL PROVIDE AND INSTALL CIRCUIT BREAKER IN METER CENTER TO FEED AT&T SHELTER. CIRCUIT BREAKER SHALL BE 200A, 240V, 1PH, 3W TYP AND AIC RATING SHALL MATCH EXISTING.
- 4 CONTRACTOR SHALL PROVIDE AND INSTALL NAMEPLATE ON METER TO INDICATE "AT&T". NAMEPLATES SHALL BE PHENOLIC, WHITE LETTERS ON BLACK BACKGROUND.
- 5 SHELTER DISCONNECT IS FURNISHED WITH SHELTER. ON SITES WHERE SERVICE IS OBTAINED FROM AN EXISTING SOURCE (METER CENTER), OR SERVICE DISCONNECT IS LOCATED ON EQUIPMENT RACK, SHELTER DISCONNECT MAY BE OMITTED.
- 6 BELOW GRADE PVC CONDUIT SHALL TRANSITION TO RMC PRIOR TO RISING ABOVE GRADE, ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.
- 7 ALL EQUIPMENT SHALL BE GROUNDED PER NEC (MIN #2 SBTC) AND AT&T STANDARDS.
- 8 CONDUCTOR SIZES AND DISTANCES HAVE BEEN SIZED FOR 3% MAX VOLTAGE DROP. (TOTAL SYSTEM VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%)

**CONDUIT NOTES:**

- 1 (3) #1/0, 1#6G - 2" C FOR POWER
- 2 1" Ø CONDUIT FOR START/STOP SIGNAL
- 3 PROPOSED 1" Ø CONDUIT FOR BLOCK HEATER AND GEN AUX POWER
- 4 PROPOSED 1" Ø CONDUIT FOR BATTERY CHARGER.
- 5 PROPOSED 1" Ø CONDUIT FOR EMERGENCY SHUT-OFF SWITCH.



**1 ELECTRICAL ONE-LINE DIAGRAM**  
SCALE: NOT TO SCALE

PANEL DESIGNATION: <b>AT&amp;T</b>		TYPE: LIGHTING & APPLIANCE	SYSTEM: 120/240V, 3W, 42 CKT	LOCATION: AT&T LEASE AREA
MOUNTING: SURFACE		ENCLOSURE:	MAIN BREAKER (MB): 200A	PANEL NOTES: WIC INTEGRATED PANEL
			MAIN BUS RATING: 200A	
			MIN. A.I.C. RATING: 65K	

CONNECTED LOAD (kVA)	BRIEF DESCRIPTION	FEEDER OR BRANCH CIRCUIT				CIRC. NOTES	FEEDER OR BRANCH CIRCUIT			BRIEF DESCRIPTION	CONNECTED LOAD (kVA)	
		BREAKER		POLE NO.	CIRC. NOTES		BREAKER		BRIEF DESCRIPTION		A	B
A	B	AMPS	POLES			NO.	NO.	POLES		AMPS	A	B
2.00	RECTIFIER #1	30	2	1	2	1	20	EXT. GFCI OUTLETS	0.18	2.00		
2.00	RECTIFIER #3	30	2	3	4	2	30	RECTIFIER #2	2.00	2.00		
2.00	RECTIFIER #5	30	2	5	6	2	30	RECTIFIER #4	2.00	2.00		
2.00	RECTIFIER #5	30	2	7	8	2	30	RECTIFIER #6	2.00	2.00		
0.00	SPACE			9	10	2	30		2.00			
0.00	SPACE			11	12				0.00			
0.68	SPACE			13	14				0.00			
0.00	SPACE			15	16				0.00			
0.00	SPACE			17	18				0.00			
0.00	SPACE			19	20				0.00			
0.00	SPACE			21	22				0.00			
0.00	SPACE			23	24				0.00			
3.50	1.5 TON AC UNIT	20	2	25	26				0.00			
0.48	FIBER BOX OUTLET	20	1	27	28	1	20	GFI RECEPT / LIGHT	0.70			
0.00	SPACE			29	30	1	20	GEN BLOCK HEATER	1.92			
0.00	SPACE			31	32	1	20	BATTERY CHARGER	1.92			
0.00	SPACE			33	34				0.00			
0.00	SPACE			35	36				0.00			
0.00	SPACE			39	40				0.00			
0.00	SPACE			41	42				0.00			
10.7									8.1	8.6		
				A	B	TOTAL						
				18.8	18.1	36.9			CONNECTED LOAD (kVA)			
				18.8	18.1	36.9			DEMAND LOAD (kVA)			

DERATING FACTOR (80%)  
DEMANDLOAD SIZING: 195 AMPS

- NOTES:**
1. ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.
  2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50 FT.

**2 PANEL SCHEDULE**

**AMERICAN TOWER®**  
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CARY, NC 27518  
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COA: 24GA28099400

**RPM ENGINEERING**  
*With Integrity*

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21

ATC SITE NUMBER:  
**373155**

ATC SITE NAME:  
**PARLIN - SAYREVILLE**

AT&T MOBILITY SITE NAME:  
**PARLIN - NYCWNJ5836**

SITE ADDRESS:  
775 WASHINGTON ROAD  
PARLIN, NJ 08859-0000

SEAL:

C:\Users\jpalmer\Documents\Harris\N2 Seal\_v3 Signature.jpg

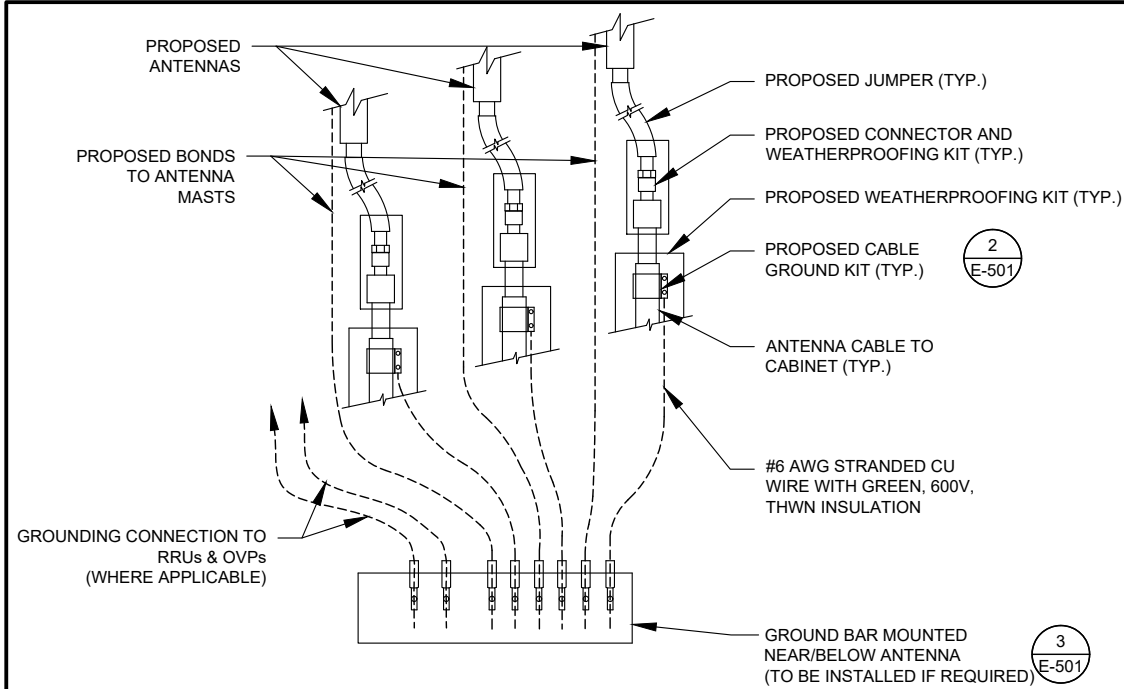
**AT&T**

DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**ELECTRICAL ONE-LINE & PANEL SCHEDULE**

SHEET NUMBER: <b>E-102</b>	REVISION: <b>A</b>
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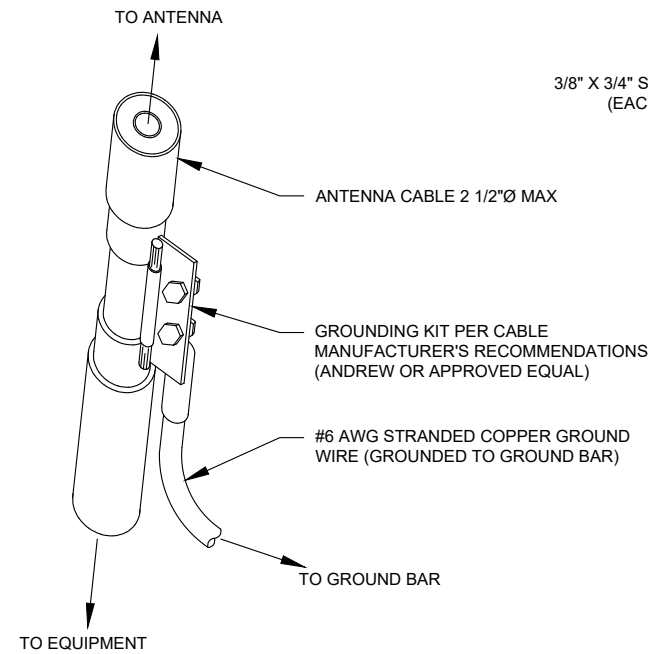


**NOTES:**

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

**1 TYPICAL ANTENNA GROUNDING DIAGRAM**

SCALE: NOT TO SCALE

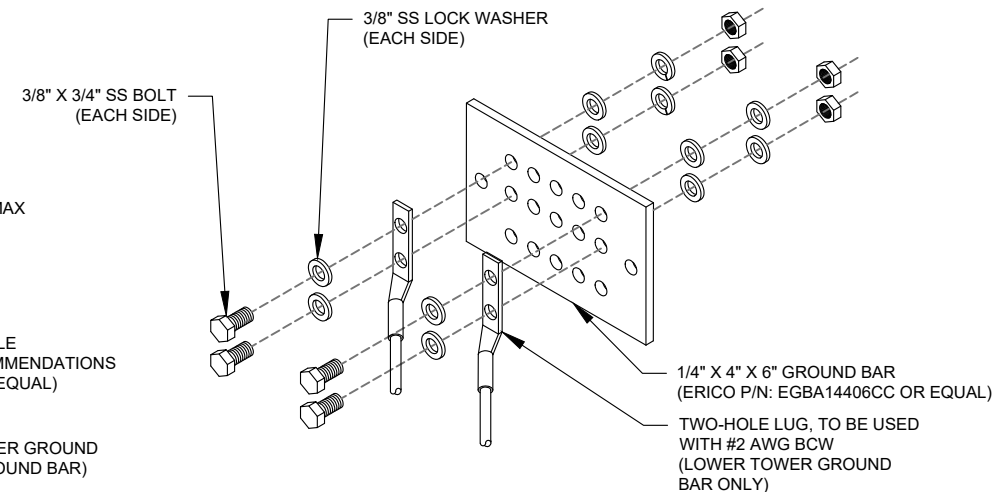


**GROUND KIT NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

**2 CABLE GROUND KIT CONNECTION DETAIL**

SCALE: NOT TO SCALE

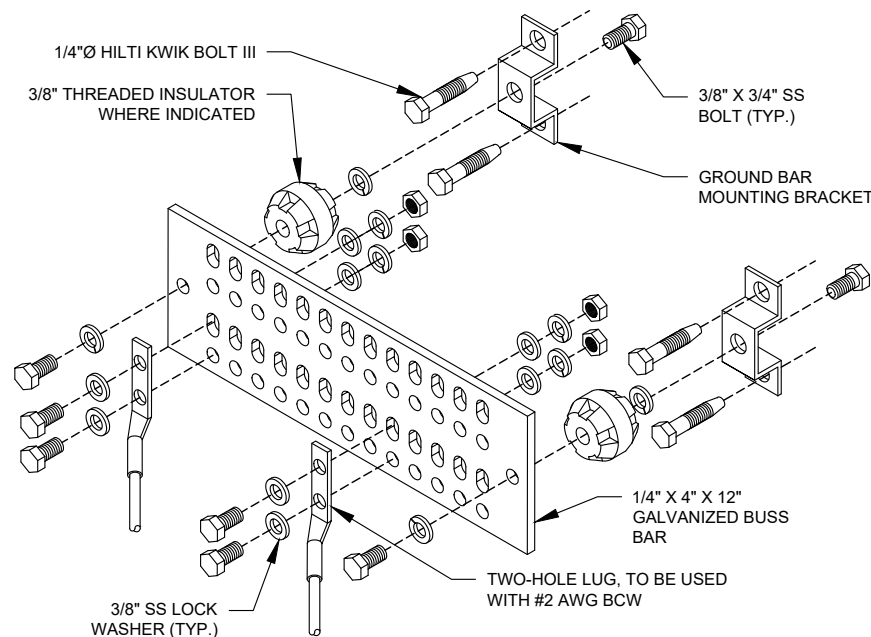


**GROUND BAR NOTES:**

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

**3 TOWER GROUND BAR DETAIL**

SCALE: NOT TO SCALE



**GROUND BAR NOTES**

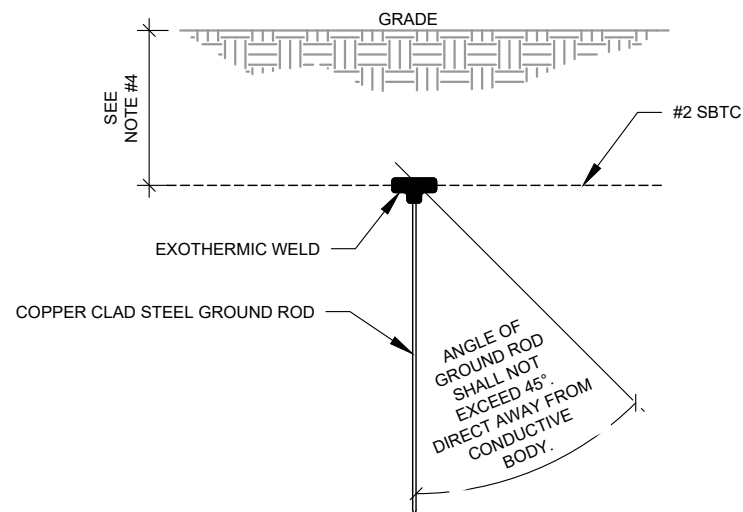
1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

**4 MAIN GROUND BAR DETAIL**

SCALE: NOT TO SCALE

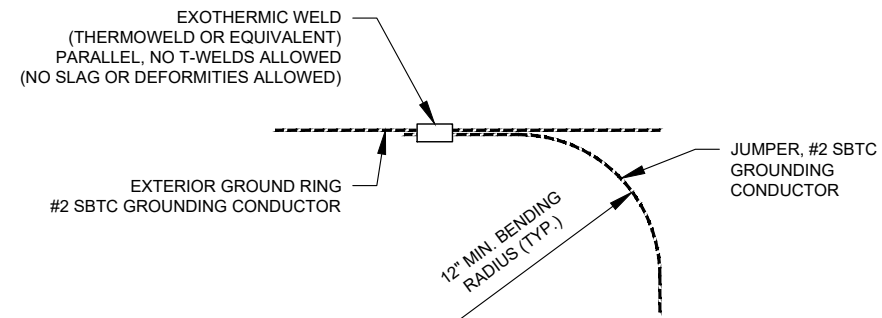
**NOTES:**

1. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.
2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
3. CONDUIT TRENCHING DEPTHS AT 36" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
4. ALL RING AND RADIAL DEPTHS AT 30" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.



**5 GROUND ROD DETAIL**

SCALE: NOT TO SCALE



**6 TIE CONNECTION DETAIL**

SCALE: NOT TO SCALE

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 COA: 24GA28099400

**RPM ENGINEERING**  
*With Integrity*

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21

ATC SITE NUMBER:  
**373155**

ATC SITE NAME:  
**PARLIN - SAYREVILLE**

AT&T MOBILITY SITE NAME:  
**PARLIN - NYCWNJ5836**

SITE ADDRESS:  
 775 WASHINGTON ROAD  
 PARLIN, NJ 08859-0000

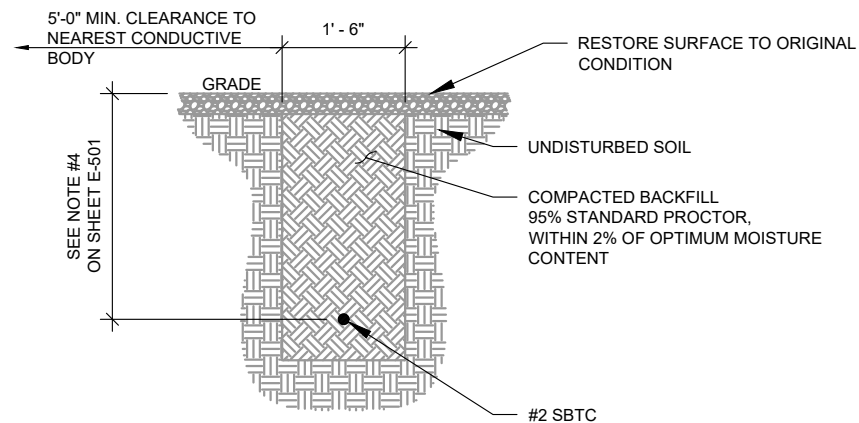
SEAL:

DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

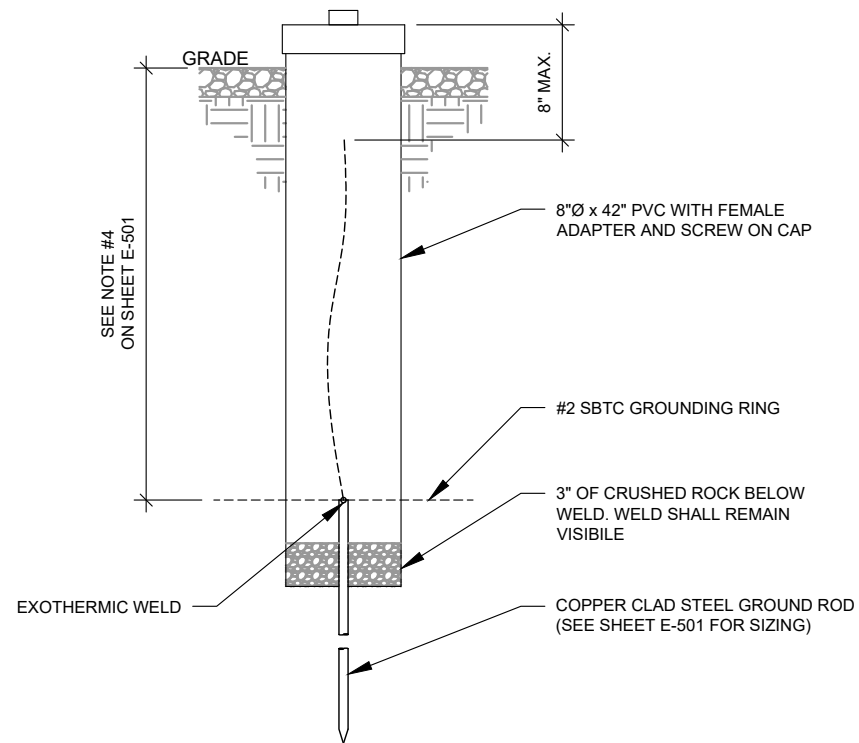
**GROUNDING DETAILS**

SHEET NUMBER:	REVISION:
<b>E-501</b>	<b>A</b>

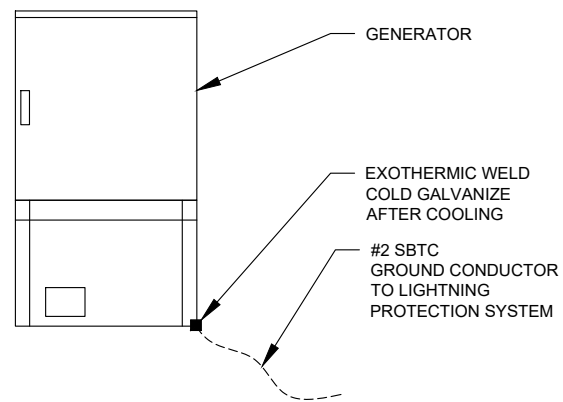
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**1** GROUND CONNECTION TRENCH DETAIL (STD.)  
SCALE: NOT TO SCALE



**2** TEST WELL DETAIL  
SCALE: NOT TO SCALE



**GENERATOR INSTALLATION NOTE:**

INSTALL GENERATOR AND TRANSFER SWITCH WITH ALL SUPPLIED ACCESSORIES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESSORIES FOR THE EXHAUST SYSTEM, FUEL SYSTEM, ENCLOSURE INTEGRITY (CAPS, PLUGS, COVERS, ETC.), ELECTRICAL CONNECTIONS, AND GROUNDING CONNECTIONS.

**3** GENERATOR GROUNDING  
SCALE: NOT TO SCALE

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AT&T MOBILITY SITE NAME:  
PARLIN - NYCWNJ5836

SITE ADDRESS:  
775 WASHINGTON ROAD  
PARLIN, NJ 08859-0000

SEAL:



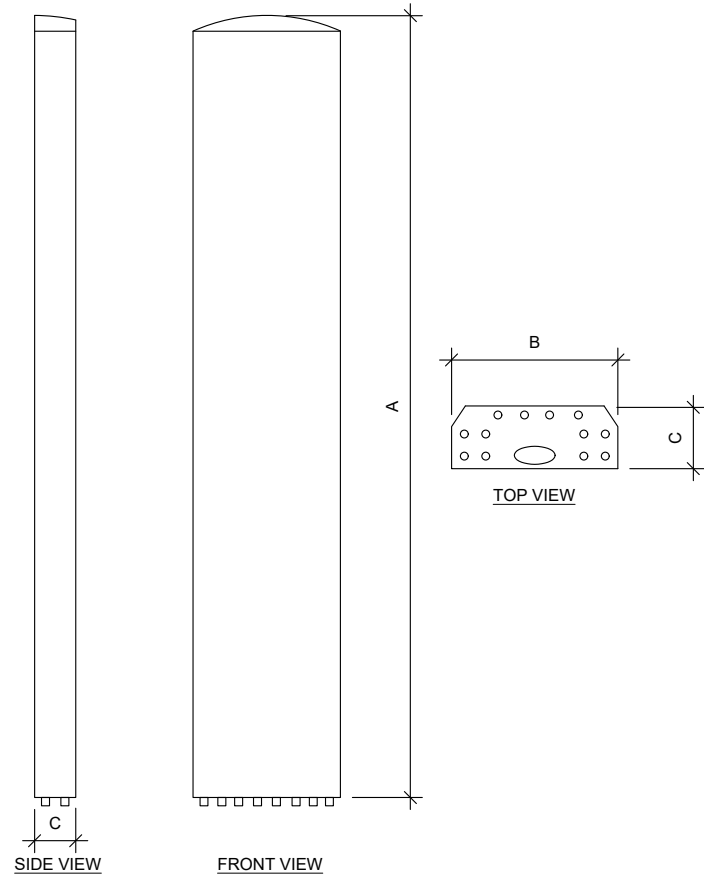
DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**GROUNDING DETAILS**

SHEET NUMBER:  
**E-502**

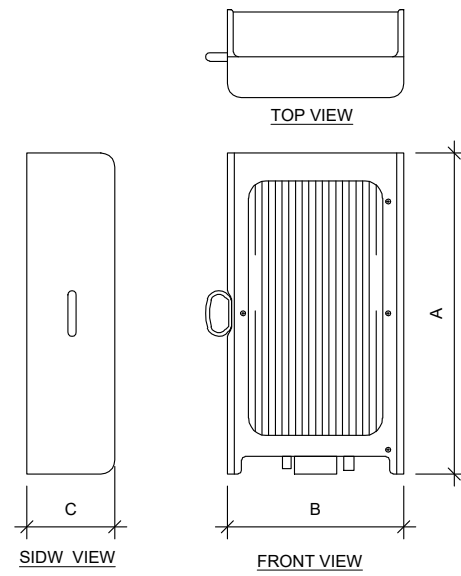
REVISION:  
**A**





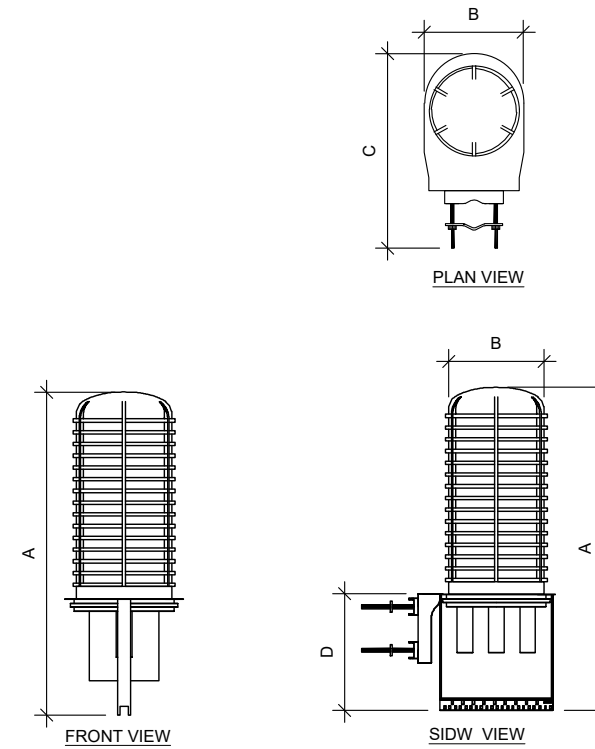
ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
COMMSCOPE NNHH-65B-R4	72"	19.6"	7.8"	78.3

1 ANTENNA SPECIFICATIONS  
NOT TO SCALE



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA	-	-	-	-
AIRSCALE DUAL RRH 4T4R B25 / 66 320W AHFIB	22"	12.1"	5.9"	66.1
AIRSCALE RRH 4T4R B5 160W AHCA	13.3"	11.6"	6.5"	35.3
AIRSCALE RRH 4T4R B30 100W AHNA	13.3"	12.1"	5.5"	34.2

2 RRU SPECIFICATIONS  
NOT TO SCALE



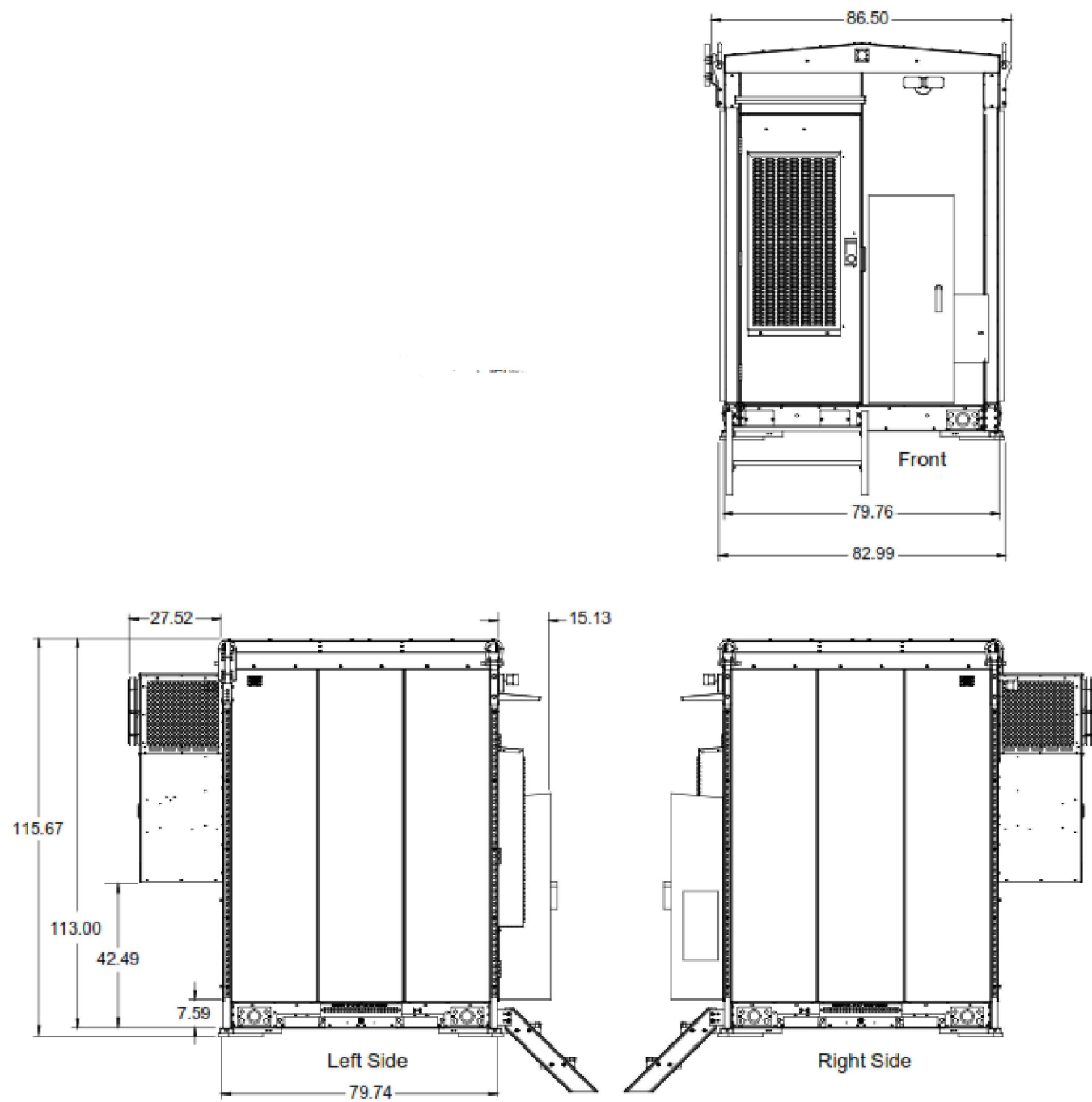
RAYCAP SPECIFICATIONS					
RAYCAP MODEL	A	B	C	D	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	10.2	18.3"	-	16

3 RAYCAP SPECIFICATIONS  
NOT TO SCALE

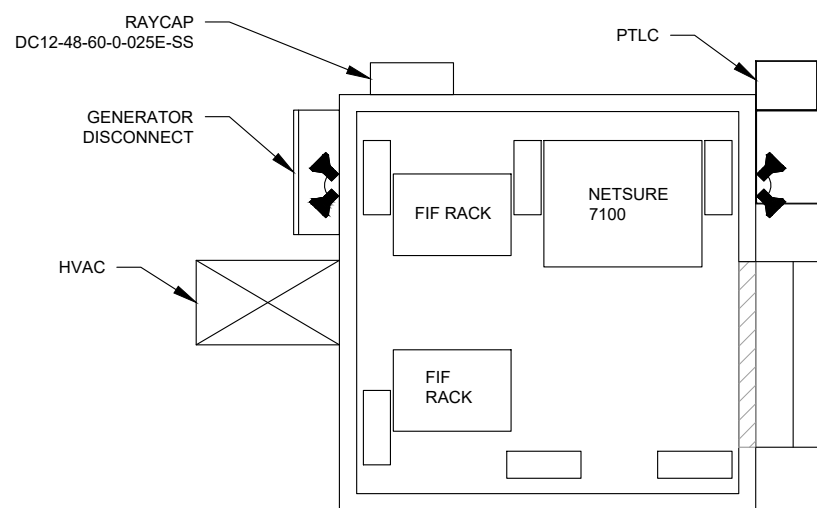
SUPPLEMENTAL

SHEET NUMBER: REVISION:

R-601



1 WIC DETAILS  
SCALE: NOT TO SCALE



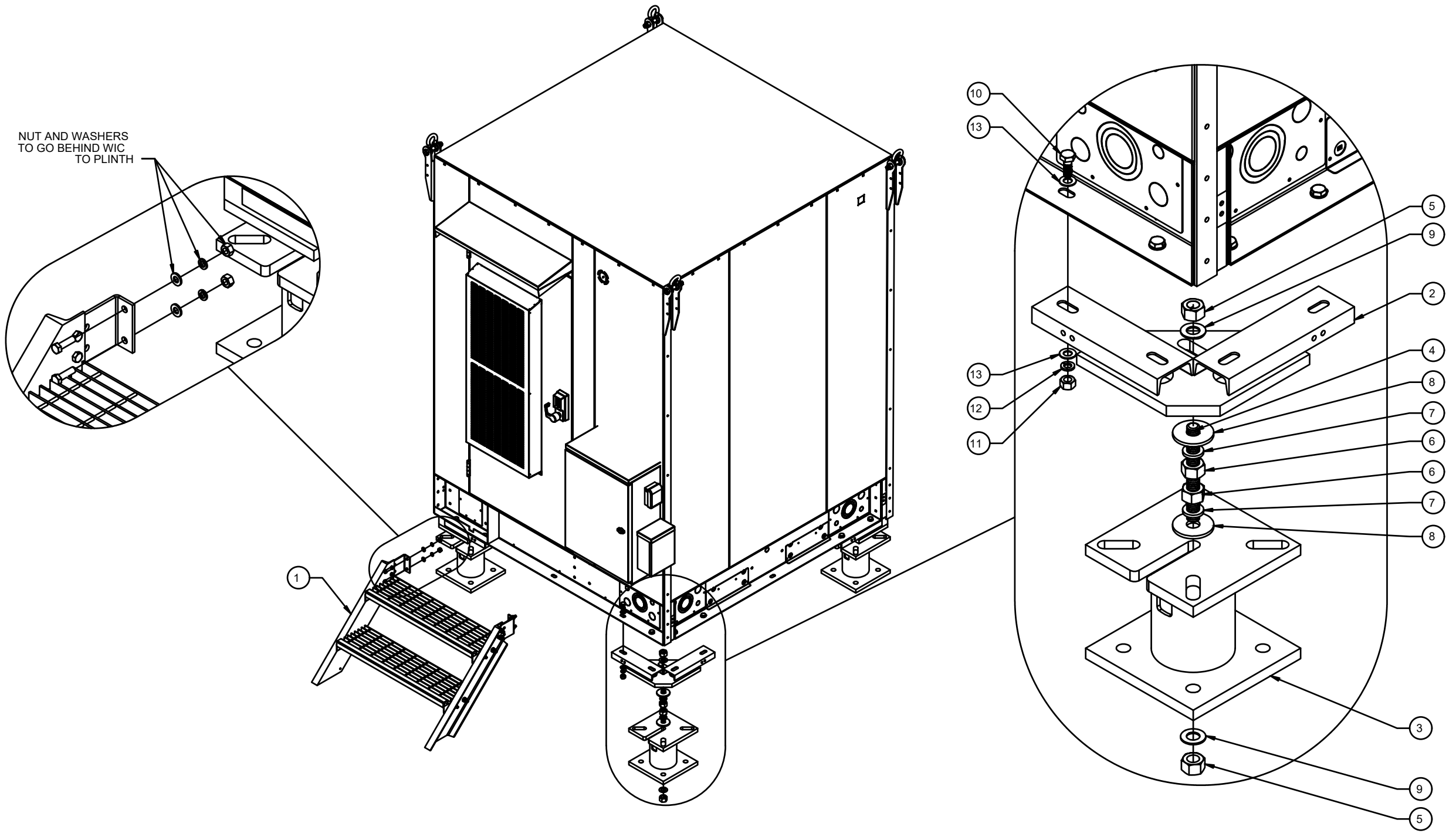
5 EQUIPMENT LAYOUT  
SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER:  
R-602

REVISION:

NUT AND WASHERS  
TO GO BEHIND WIC  
TO PLINTH



**NOTES:**

1. WIC DETAIL BASED ON DRAWINGS BY VERTIV
2. ANCHOR WIC OR PLINTH W/ 1/2" HILTI TZ ANCHORS, EMBEDDED 3-3/4" WITH HILTI HY200 EPOXY ADHESIVE COMPOUND.
3. GALVANIZED P1000 TO BE UTILIZED AT WIC FOR DC12, FMB & RRH'S. CAP ENDS & INSTALL PER MANUFACTURER RECOMMENDATIONS.

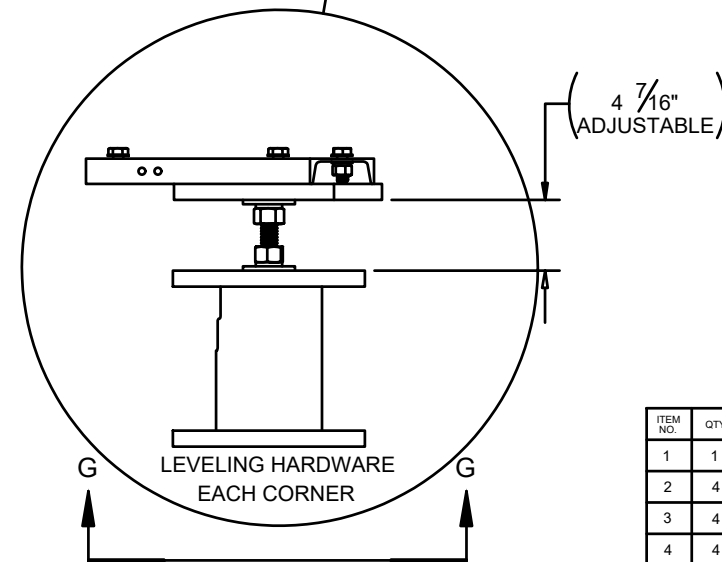
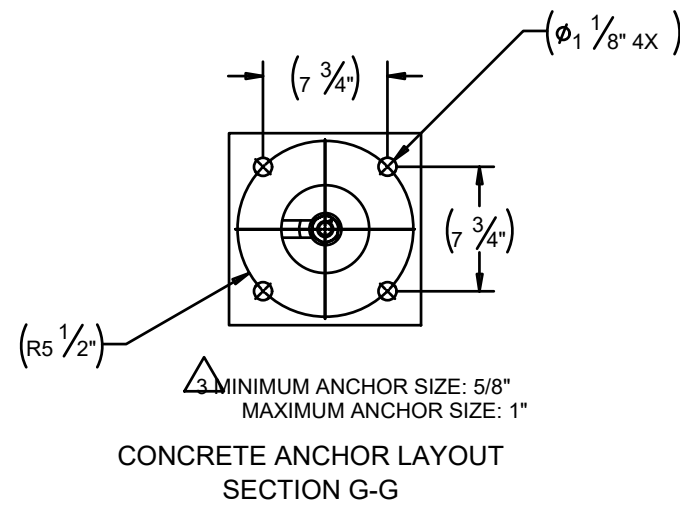
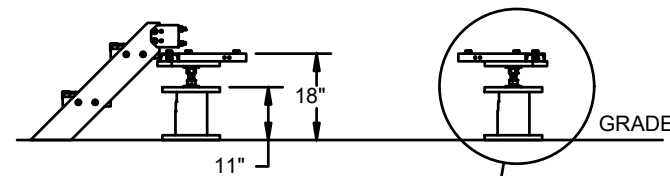
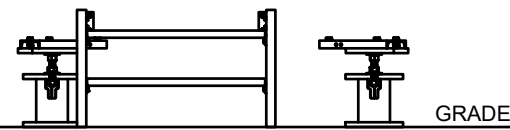
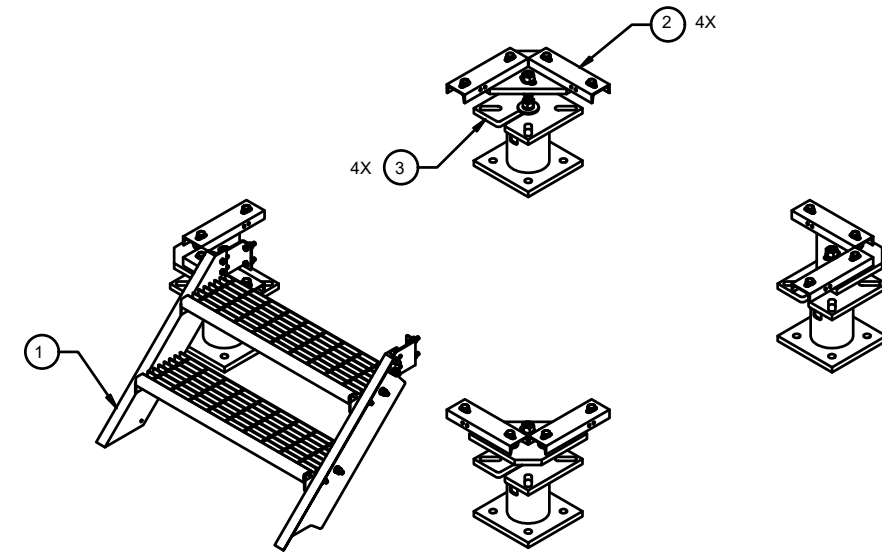
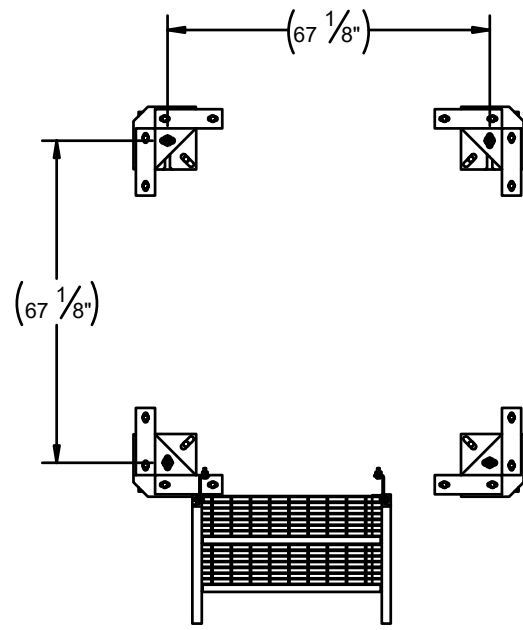
1 WIC SHELTER DETAILS  
SCALE: NOT TO SCALE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	WEIGHT
1	1	1003-0000-0016	WIC 2-STEP STAIRS KIT, 45 DEGREE	102.9
2	4	W-000-771	ATT WIC HELICAL ADAPTER WELDMENT	44.9
3	4	W-000-847	6" X 11" EXTENSION WELDMENT	81.5
4	4	002-0AT-H000	ROD, THREADED, 1.00"-8 X 9.00" LG, ASTM A193 B7, GALV	1.60
5	8	002-0NG-0000	NUT, HX, ANCO LOCK, 1.00"-8UNC, GR 2H, GALV	0.43
6	8	002-0NG-0008	NUT, HX, 1.00"-8UNC, GR 2H, GALV	0.42
7	8	002-0LW-G008	WASHER, SPLIT LOCK, 1.00", GALV	0.09
8	8	002-0FW-G024	WASHER, FLAT, 1.063 ID, 3.25 OD, GALV	0.07
9	8	002-0FW-G009	WASHER, FLAT, 1.00", F436, GALV	0.08
10	16	002-0BG-0033	BOLT, HX HD, .625-11UNC X 1.75" LG, ASTM A325, GALV	0.03
11	16	002-0NG-0011	NUT, HX, .625-11UNC, GR DH, GALV	0.12
12	16	002-0LW-G004	WASHER, SPLIT LOCK, .625 INCH, GALV	0.03
13	32	002-0FW-G004	WASHER, FLAT, .625", ASTM F436, GALV	0.03

SUPPLEMENTAL

SHEET NUMBER:  
**R-603**

REVISION:  
**A**



**NOTES:**

1. WIC DETAIL BASED ON DRAWINGS BY VERTIV
2. ANCHOR WIC OR PLINTH W/ 1/2" HILTI TZ ANCHORS, EMBEDDED 3-3/4" WITH HILTI HY200 EPOXY ADHESIVE COMPOUND.
3. GALVANIZED P1000 TO BE UTILIZED AT WIC FOR DC12, FMB & RRH'S. CAP ENDS & INSTALL PER MANUFACTURER RECOMMENDATIONS.

**1 WIC SHELTER DETAILS**

SCALE: NOT TO SCALE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	WEIGHT
1	1	1003-0000-0016	WIC 2-STEP STAIRS KIT, 45 DEGREE	102.9
2	4	W-000-771	ATT WIC HELICAL ADAPTER WELDMENT	44.9
3	4	W-000-847	6" X 11" EXTENSION WELDMENT	81.5
4	4	002-0AT-H000	ROD, THREADED, 1.00"-8 X 9.00" LG, ASTM A193 B7, GALV	1.60
5	8	002-0NG-0000	NUT, HX, ANCO LOCK, 1.00-8UNC, GR 2H, GALV	0.43
6	8	002-0NG-0008	NUT, HX, 1.00"-8UNC, GR 2H, GALV	0.42
7	8	002-0LW-G008	WASHER, SPLIT LOCK, 1.00", GALV	0.09
8	8	002-0FW-G024	WASHER, FLAT, 1.063 ID, 3.25 OD, GALV	0.07
9	8	002-0FW-G009	WASHER, FLAT, 1.00", F436, GALV	0.08
10	16	002-0BG-0033	BOLT, HX HD, .625-11UNC X 1.75" LG, ASTM A325, GALV	0.03
11	16	002-0NG-0011	NUT, HX, .625-11UNC, GR DH, GALV	0.12
12	16	002-0LW-G004	WASHER, SPLIT LOCK, .625 INCH, GALV	0.03
13	32	002-0FW-G004	WASHER, FLAT, .625", ASTM F436, GALV	0.03

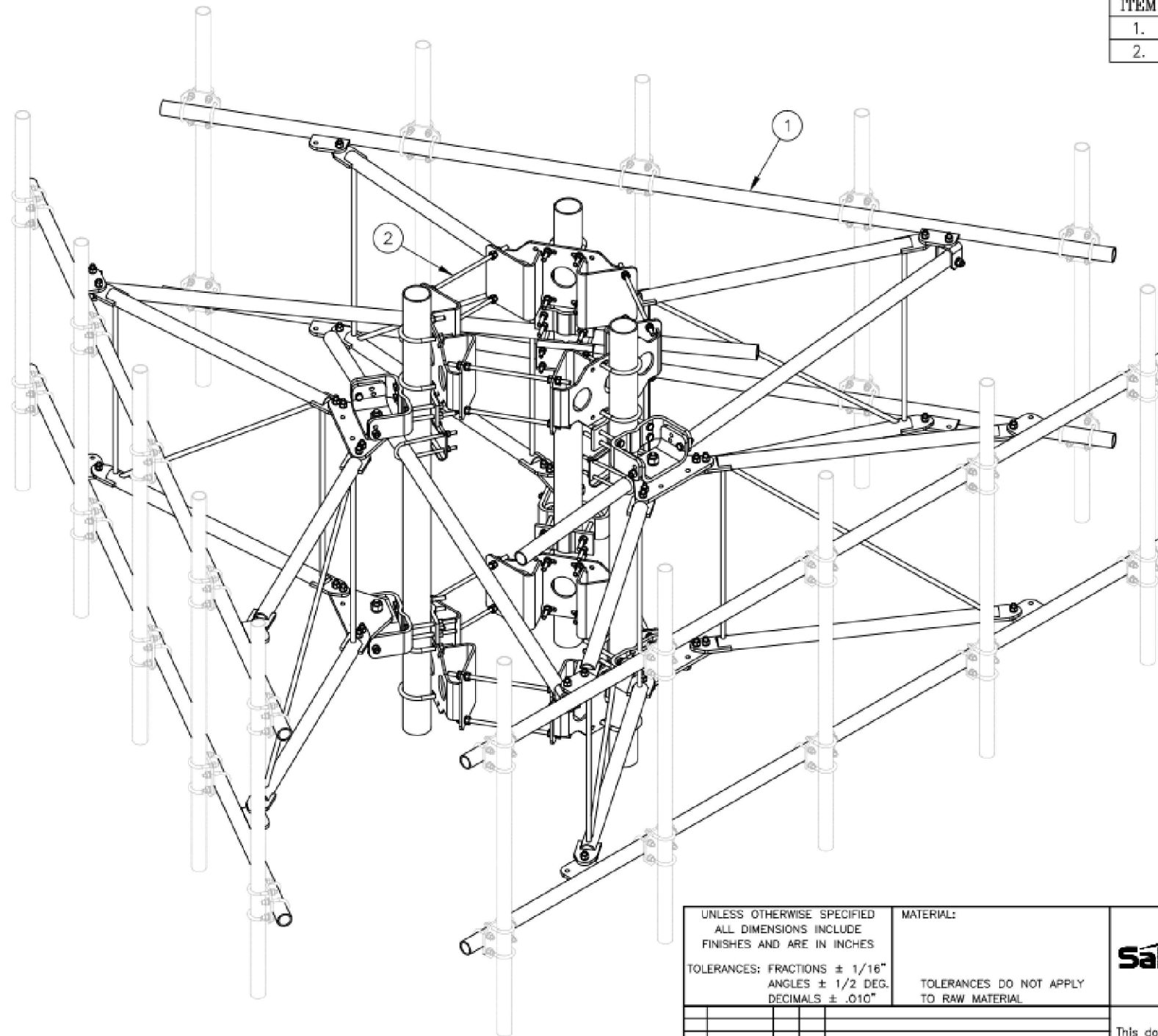
SUPPLEMENTAL

SHEET NUMBER:  
**R-604**

REVISION:

C10857801 12' HD V-BOOM ASSEMBLIES W/TIEBACK

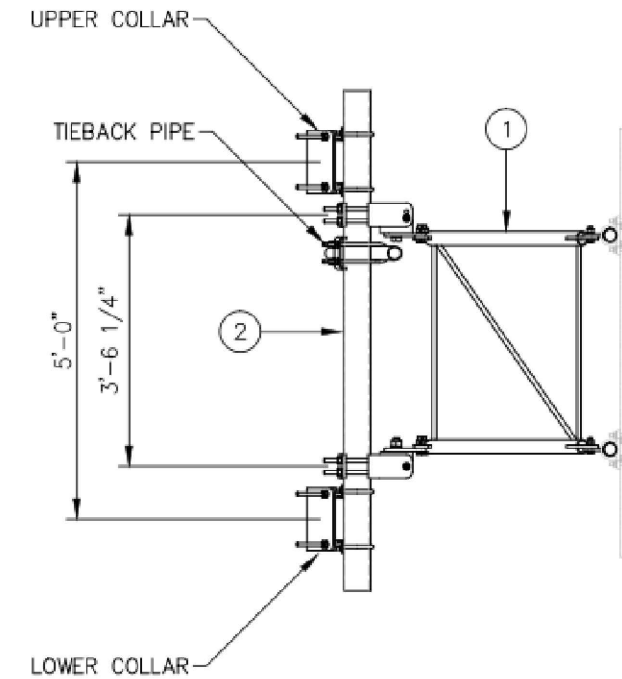
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	3	C10857001C	12' HD V-BOOM ASSEMBLY W/TIE BACK	1386
2.	1	C10899050	4 1/2" O.D. MONOPOLE PIPE MOUNT ASSEMBLY	678
TOTAL WEIGHT				2064



ISOMETRIC VIEW

NOTES:

1. MOUNTING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.
2. SEE DRAWING C10857001C FOR 12' V-BOOM ASSEMBLY.
3. SEE DRAWING C10899050 FOR 4 1/2" O.D. MONOPOLE PIPE MOUNT ASSEMBLY.



VIEW A-A  
FROM PAGE 2

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS INCLUDE  
FINISHES AND ARE IN INCHES

TOLERANCES: FRACTIONS  $\pm 1/16"$   
ANGLES  $\pm 1/2$  DEG.  
DECIMALS  $\pm .010"$

MATERIAL:

TOLERANCES DO NOT APPLY  
TO RAW MATERIAL.



12' HD V-BOOM ASSEMBLY W/TIEBACK  
(3' STANDOFF)  
ON MONOPOLE PIPE MOUNT ASSEMBLY  
W/NO ANTENNA MOUNTING PIPES

REV	DATE	DRW/CHK	DESCRIPTION

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DATE	09/24/18	SIZE	B	DRAWING NO.	C10857801	REV	0
DRAWN BY	WRF	SCALE	None	PAGE	1 OF 2		
CHECKED BY	WMN						

SUPPLEMENTAL

SHEET NUMBER:  
**R-605**

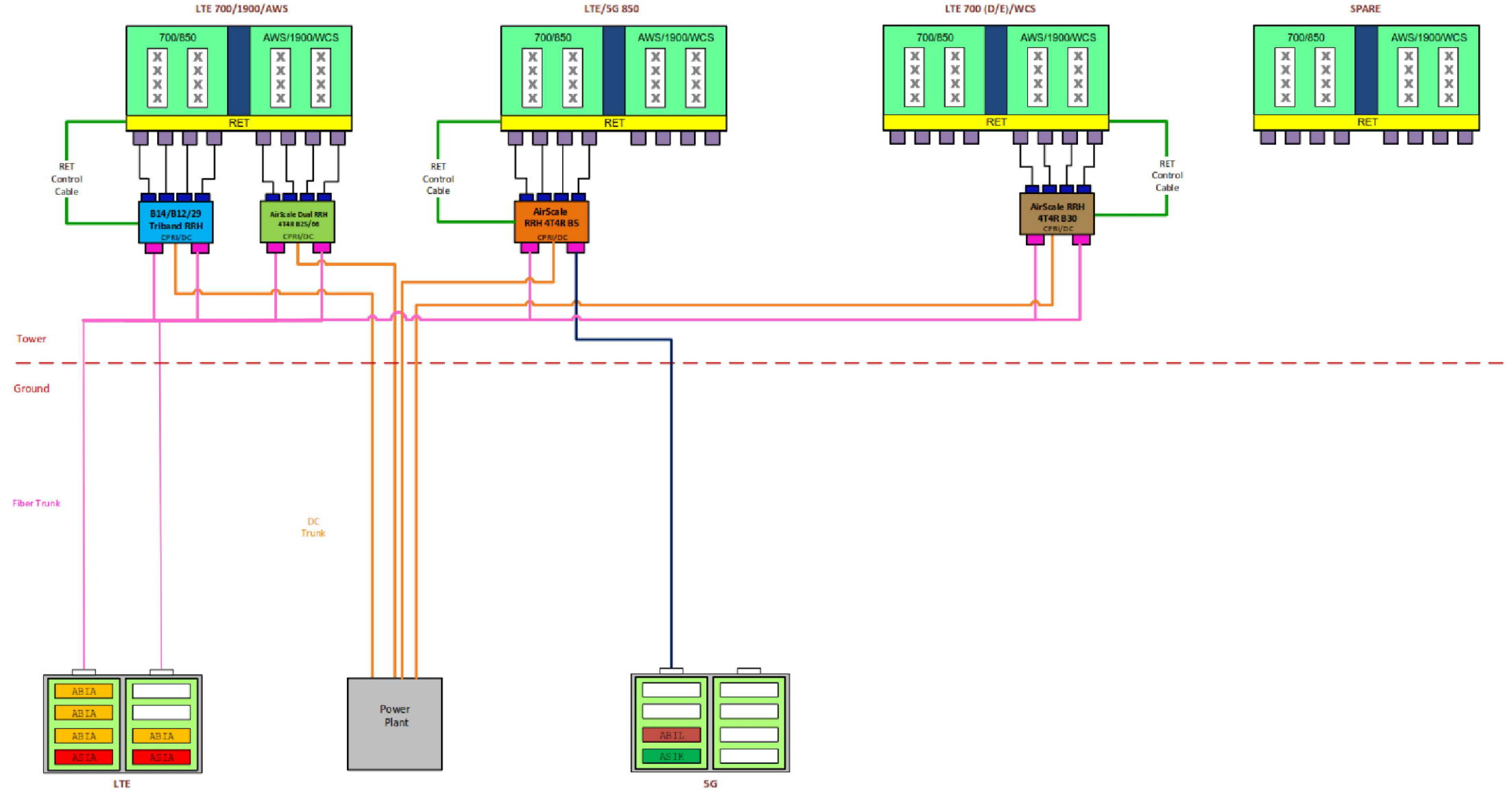
REVISION:

Proposed Configuration

# NWL05836 – All Sectors

Before starting RRH/antenna installation, please refer to Nokia field guides and notices for requirements.

← Maintain a minimum of 6' separation →



SUPPLEMENTAL

SHEET NUMBER:  
**R-606**

REVISION: