

**From:** Aja Chase <aja.chase@ericsson.com>  
**Sent:** Wednesday, May 10, 2023 2:51 PM  
**To:** CSC-DL Siting Council <Siting.Council@ct.gov>  
**Cc:** Joseph Carbonell <joseph.carbonell@ericsson.com>  
**Subject:** EM-CING-007-220513

Good Afternoon CSC,

Please find the CCA attached for the below site, which completed construction as of 4/27/23. A photo of the overall work is also attached, please let me know if you have any additional questions!

10034969	CTL01014	MRCTB051296	260 BECKLEY ROAD	BERLIN	6037
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Kindly,



Aja Chase  
Construction Manager I  
AT&T NE Market  
401-952-6205

May 10, 2023

Building Department  
Town of Berlin  
240 Kensington Rd.  
Berlin, CT 06037

### Construction Closeout Letter

**ATC Site Name:** BRLN - Berlin  
**ATC Asset#:** 302483  
**AT&T Site#:** CTL01014  
**Site Address:** 286 Beckley Rd.  
Berlin, CT 06037

To Whom It May Concern:

In accordance with the requirements of the 2018 Connecticut State Building Code, Dewberry Engineers Inc. (Dewberry) reviewed the completed installation at the above location based on Rev-2 Construction Drawings dated 10/05/22. A structural analysis report dated 11/04/21 was completed by CLS Engineering PLLC, and a mount analysis report dated 09/12/22 was completed by Telamon Tower Engineering PLLC.

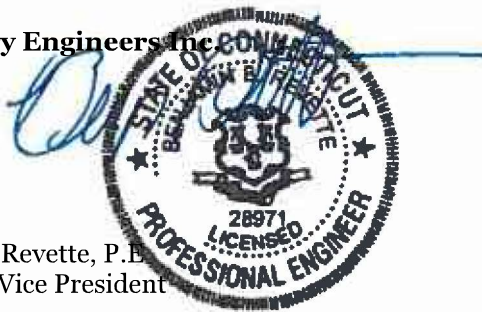
Please see the attached reports and documentation for the completed site.

- May 10, 2023 – Contractor Report by Dewberry
- April 10, 2023 – As-Built drawings by Phoenix United
- September 21, 2022 – Statement of Special Inspections by Dewberry

Based on visual observations, it appears that the project is constructed in general conformance with the applicable plans and specifications. If you have any questions, please do not hesitate to contact Dewberry Engineers Inc.

Sincerely,

**Dewberry Engineers Inc.**



Benjamin Revette, P.E.  
Associate Vice President

## Statement of Special Inspections

### Contractor Report #1

Attn: Mr. Blake Paynter  
Project Manager  
American Tower Corporation  
10 Presidential Way  
Woburn, MA 01801

ATC Site Name:	BRLN - Berlin
ATC Site#/Project#:	302483 / 13682691
Site Address:	286 Beckley Road Berlin, CT 06037
CM / Contractor:	Ericsson / Phoenix United

Dewberry Engineers Inc. (Dewberry) has reviewed the photos and as-built drawings provided by the general contractor of the recently completed site improvements at the aforementioned location. The site review was performed based on Rev-2 Construction Drawings dated 10/05/22. A structural analysis report dated 11/04/21 was completed by CLS Engineering PLLC, and a mount analysis report dated 09/12/22 was completed by Telamon Tower Engineering PLLC.

The following are on-site photos from the inspection:

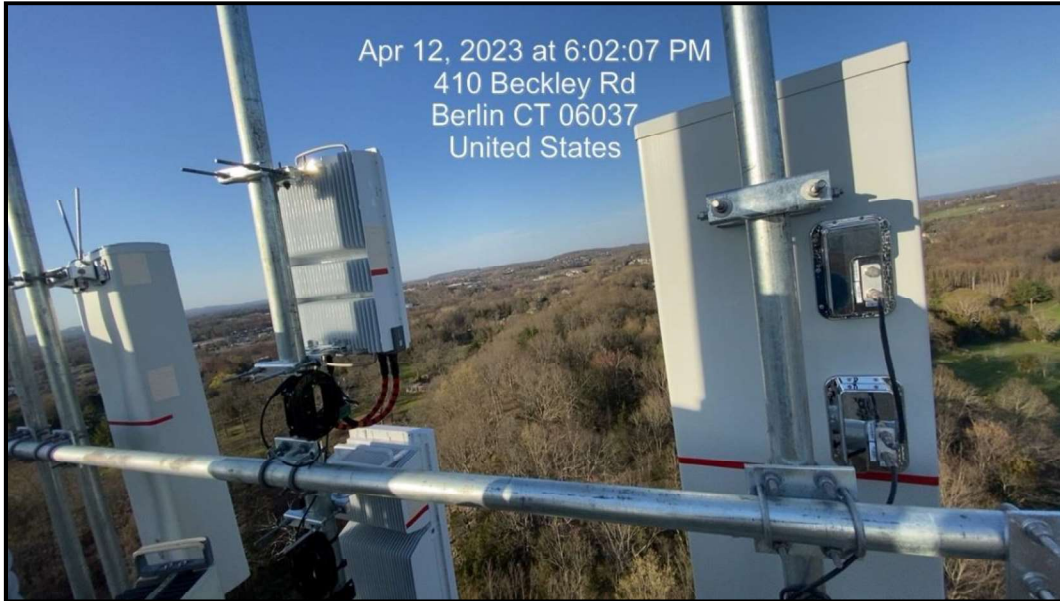
- Figure 1: View of installed alpha sector antennas on new mount platform
- Figure 2: View of installed beta sector antennas on new mount platform
- Figure 3: Overview of installed equipment on tower
- Figure 4: View(s) of installed RRUs and Squids on new mount platform

All notes and items in this field report are a record of observations provided by the photos. Please notify Dewberry Engineers Inc. in writing of any discrepancies, errors or misinterpretations. Please find attached to this report, the figures and photos of construction and items observed.

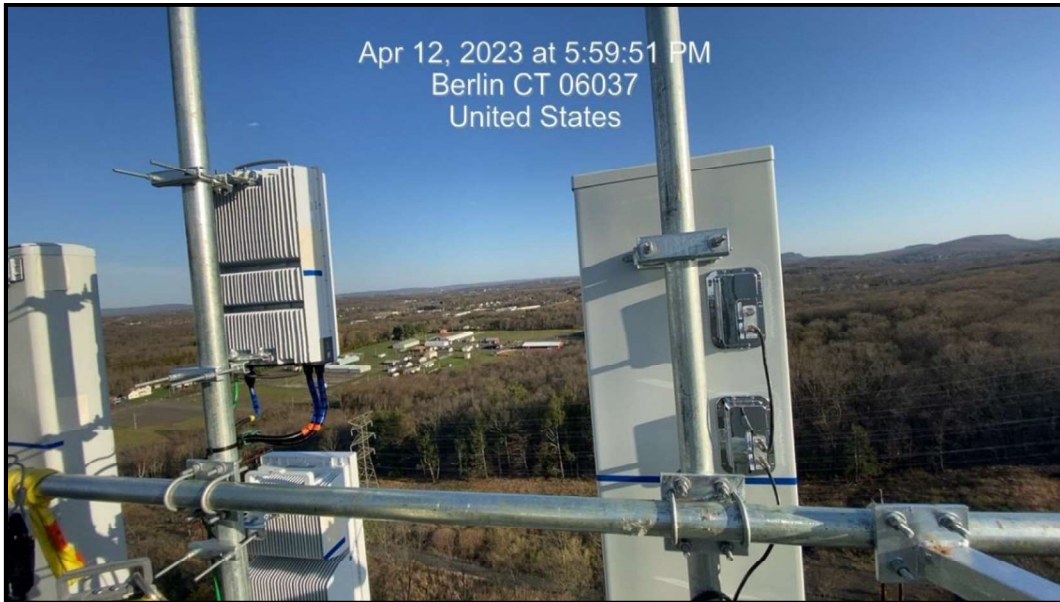
Prepared By: 

Joseph Mazzeo  
Engineer

**Contractor Photos:**



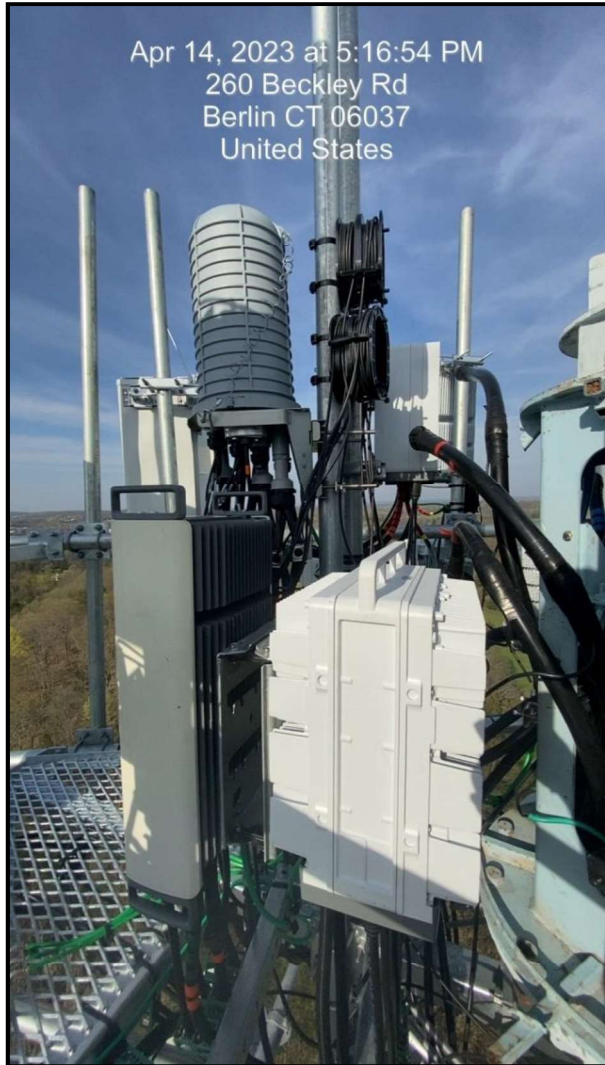
*Figure 1: View of installed alpha sector antennas on new mount platform*



*Figure 2: View of installed beta sector antennas on new mount platform*



*Figure 3: Overview of installed equipment on tower*



*Figure 4: View(s) of installed RRUs and Squids on new mount platform*



**AMERICAN TOWER®**  
**Dewberry®**  
 Dewberry Engineers Inc.  
 99 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.656.5400

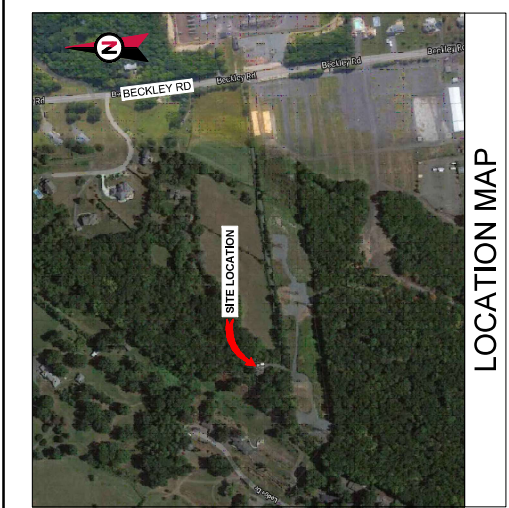
REV.	DESCRIPTION	BY	DATE
1	PRELIM	JW	11/11/21
2	FINAL	JL	04/14/22
3	FINAL	HMP	08/14/22
4	FINAL	HMP	10/05/22

ATC SITE NUMBER:  
**302483**  
 ATC SITE NAME:  
**BRLN - BERLIN**  
 AT&T MOBILITY SITE NAME:  
**BERLIN NE**  
 SITE ADDRESS:  
**286 BECKLEY ROAD**  
**BERLIN, CT 06037**

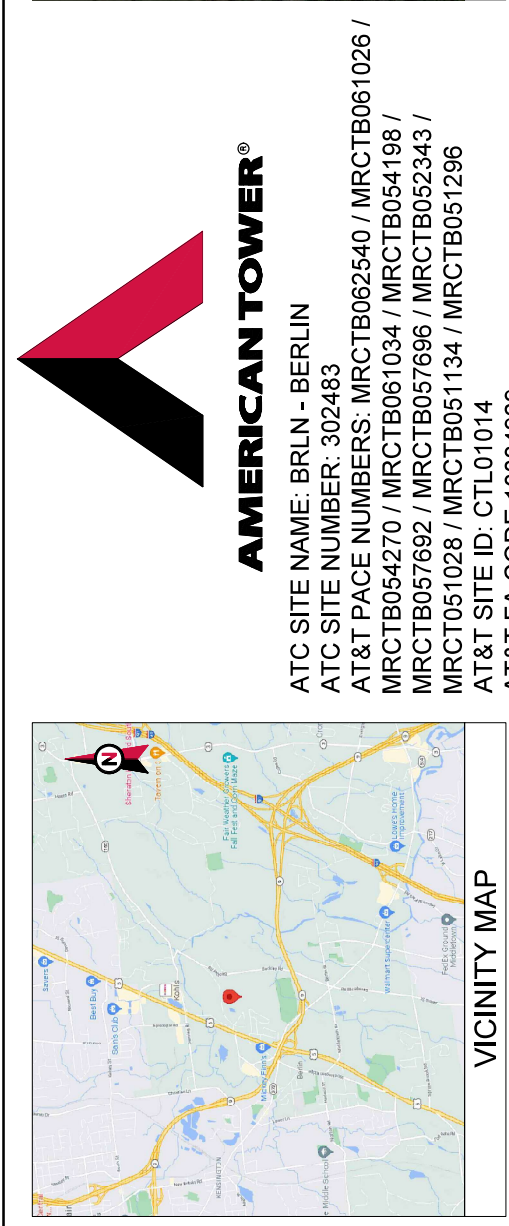


DATE DRAWN: 11/11/21  
 ATC JOB NO.: 1382891  
 CUSTOMER ID: BERLIN NE  
 CUSTOMER #: 10034969

TITLE SHEET  
 SHEET NUMBER:  
**G-001**  
 REVISION:  
**2**



**LOCATION MAP**  
**IMA MOD was done as per MA Analysis dated 11/05/21**  
**REDLINED PHOENIX UNITED 04/10/2023**



**VICINITY MAP**  
**AT&T MOBILITY**  
**LTE7C/5GNR/BWE/RETROFIT/5GNR**  
**1SR CBAND ANTENNA AMENDMENT PLAN**

SHEET NO.	DESCRIPTION	REV.	DATE	BY:
G-001	TITLE SHEET	2	10/5/2022	HMP
G-002	GENERAL NOTES	2	10/5/2022	HMP
C-001	DETAILED SITE PLAN	2	10/5/2022	HMP
C-002	DETAILED EQUIPMENT LAYOUT	2	10/5/2022	HMP
C-201	TOWER ELEVATION	2	10/5/2022	HMP
C-401	ANTENNA INFORMATION & SCHEDULE	2	10/5/2022	HMP
C-601	CONSTRUCTION DETAILS	2	10/5/2022	HMP
E-501	GROUNDING DETAILS	2	10/5/2022	HMP
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			

PROJECT SUMMARY	PROJECT DESCRIPTION	PROJECT NOTES
<p><b>SITE ADDRESS:</b>            286 BECKLEY ROAD            BERLIN, CT 06037</p> <p><b>COUNTY:</b> HARTFORD</p> <p><b>GEOGRAPHIC COORDINATES:</b>            LATITUDE: 41.8317139            LONGITUDE: -72.739161            GROUND ELEVATION: 185 AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MATERIALS, FOUNDATION BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW.</p> <p><b>TOWER WORK:</b>            REMOVE (8) ANTENNAS; (9) RRU(S); (6) TMA(S) AND (1) PLATFORM MOUNT</p> <p><b>INSTALL (12) ANTENNAS (6) RRU(S); (1) DC(S); (3) 6AW/36 DC TRUNKS; (1) FIBER TRUNK; (6) Y-CABLE(S) AND (1) PLATFORM MOUNT</b></p> <p><b>EXISTING (6) RRU(S); (2) DC(S); (12) COAX CABLE(S); (4) 8AW/36 DC TRUNKS; AND (2) FIBER TRUNK(S) TO REMAIN. EXISTING (2) RRU(S) TO BE RELOCATED FROM GROUND.</b></p> <p><b>GROUND WORK:</b>            REMOVE (9) DIPLEXERS AND DECOM UNITS (BBU(S))</p> <p><b>INSTALL (3) RECTIFIERS; (3) RRU(S); (6) SURGE ARRESTOR(S); (1) 885448-A00 (1) DC-2</b></p>	<p>1. THE FACILITY IS UNMANNED.</p> <p>2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.</p> <p>3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORMWATER DRAINAGE.</p> <p>4. SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.</p> <p>5. HANDICAP ACCESS IS NOT REQUIRED.</p> <p>6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 811 U.S.C. § 1912. AS A RESULT OF AN EXISTING UTILITY LESS THAN 48" IN DEPTH, THE LOCATION OF AN COLLOCATION, REMOVAL AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.91000 (B)(7).</p>
<p><b>TOWER OWNER:</b>            AMERICAN TOWER            10 PRESIDENTIAL WAY            WOBURN, MA 01801</p> <p><b>ENGINEER:</b>            DEWBERRY ENGINEERS INC.            99 SUMMER STREET, SUITE 700            BOSTON, MA 02110</p> <p><b>PROPERTY OWNER:</b>            JOHN C. MATHIUS JR.            286 BECKLEY ROAD            BERLIN, CT 06037</p>	<p><b>PROJECT TEAM</b></p> <p><b>APPLICANT:</b>            AT&amp;T MOBILITY            550 COCHITUATE ROAD            SUITES 13 &amp; 14            FRAMINGHAM, MA 01701</p>	<p><b>PROJECT LOCATION DIRECTIONS</b></p> <p>I-91 S VIA EXIT 52 TOWARD NEW HAVEN, 10.9 MIN MAP AVOID 5; MERGE ONTO CT-9 N VIA EXIT 22N TOWARD NEW BRITAIN, 2.2 MIN MAP AVOID 6; TAKE THE CT-372 E EXIT; EXIT 21, TOWARD EAST BERLIN, 0.3 MIN MAP AVOID 7; TURN LEFT ONTO CH-372 MILL ST, 0.4 MIN MAP AVOID 8; TURN RIGHT ONTO CH-372 MILL ST, 0.4 MIN MAP AVOID 9; TURN LEFT ONTO BECKLEY RD, 1.1 MIN MAP AVOID 10; END AT 286 BECKLEY RD BERLIN, CT 06037-2505 MAP ESTIMATED TIME: 20 MINUTES ESTIMATED DISTANCE: 16.12 MILES</p>

**UTILITY COMPANIES**

POWER COMPANY: EVERSOURCE  
 PHONE: (877) 656-6326

TELEPHONE COMPANY: FRONTIER COMMUNICATIONS  
 PHONE: (800) 376-6943

**811**  
 Know what's below.  
 Call before you dig.



**American Tower**  
**Dewberry**  
 Dewberry Engineers Inc.  
 99 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 0175833490

REV.	DESCRIPTION	BY	DATE
1	PRELIM	JW	11/11/21
2	FINAL	VL	04/14/22
3	FINAL	HMP	08/14/22
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ATC SITE NUMBER:  
**302483**

ATC SITE NAME:  
**BRIN - BERLIN**

AT&T MOBILITY SITE NAME:  
**BERLIN NE**

SITE ADDRESS:  
 286 BECKLEY ROAD  
 BERLIN, CT 06037



DATE DRAWN:	11/11/21
ATC JOB NO.:	13822891
CUSTOMER ID:	BERLIN NE
CUSTOMER #:	10034969

**GENERAL NOTES**

SHEET NUMBER: **G-002**

REVISION: **2**

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER. FAILURE TO COMMUNICATE DIRECTLY WITH AT&T ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM AT&T ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

**GENERAL CONSTRUCTION NOTES:**

- OWNER FURNISHED MATERIALS, AT&T MOBILITY WILL PROVIDE AND THE CONTRACTOR WILL INSTALL.
- CONTRACTOR SHALL COORDINATE WITH AT&T MOBILITY 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 OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, 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 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 INCLUDING EXCAVATION SHIELDING, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SCHLING BARRIERS, ETC.
- THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND UTILITIES TO REMAIN. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- ALL WORK SHALL BE INSTALLED IN FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY THE CONTRACTOR. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE AT&T MOBILITY. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T MOBILITY. REP. ANY WORK FOUND BY THE AT&T MOBILITY TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND REINSPECTED AT CONTRACTOR'S 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 MANUFACTURERS 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 AFTER BEING NOTIFIED INSURED, STORED, UNCRATE AND 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 BE SELECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS EITHER BEFORE OR AFTER INSTALLATION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT. THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T MOBILITY OR THEIR ARCHITECT/ENGINEER.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE UNSUITING 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 BEAR ANY DAMAGES CAUSED BY CONSTRUCTION OF THIS PROJECT TO MAINTAINING PRECONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T MOBILITY CONSTRUCTION MANAGER.
- ALL CABLES ON UP ENTRIMENT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A RUBBER GASKET.
- 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 THE 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.

**SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:**

- WORK INCLUDED:
  - ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T MOBILITY UNDER A SUBCONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS ERECTION. THE CONTRACTOR 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 SET.
  - CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING SWEEP TESTER TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS MINIMUM FIELD TESTING 10043. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE FOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
  - INSTALL COAXIAL CABLES AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ALL COAXIAL CABLES SHALL BE INSTALLED TO THE ENTRY POINT LOCATION UNLESS OTHERWISE STATED.
  - ANTENNA AND COAXIAL CABLE GROUNDING:
    - ALL EXTERIOR #6 GROUND WIRE "Daisy Chain" CONNECTIONS ARE TO BE WELDED TO THE ANTENNA AND EQUIPMENT. ALL WELDS SHALL BE GALVANIZED OR GALVANIZED WITH 100% ZINC GALVANIZING COMPOUND PER ASTM A789 AND MANUFACTURER'S RECOMMENDATIONS.
    - ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN DEVICES)

**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 A36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
  - ASTM A572 - GRADE 50 - ALL W SHAPES, UNLESS NOTED OR 5082 OTHERWISE
  - ASTM A500 - GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND MEMBERS)
  - ASTM A325, TYPE 30 COR 2 - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
  - ASTM F1554 - 70 - 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 B965.
- ALL WELDS TO BE PERFORMED BY ANS CERTIFIED WELDERS AND SHALL BE WELDED WITH FURNISHED COATS OF ZINC GALVANIZING COMPOUND PER ASTM A789 AND MANUFACTURER'S RECOMMENDATIONS.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- CONNECTIONS:
  - ALL WELDS TO BE PERFORMED BY ANS CERTIFIED WELDERS AND SHALL BE WELDED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.

**REDLINED PHOENIX UNITED**  
**04/10/2023**

AMERICAN TOWER  
 DUBOIS, PA 15833  
 PHONE: 724-346-7000  
 WWW.AT&T.COM

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**SITE PLAN NOTES:**

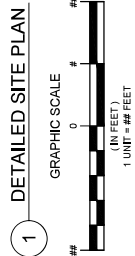
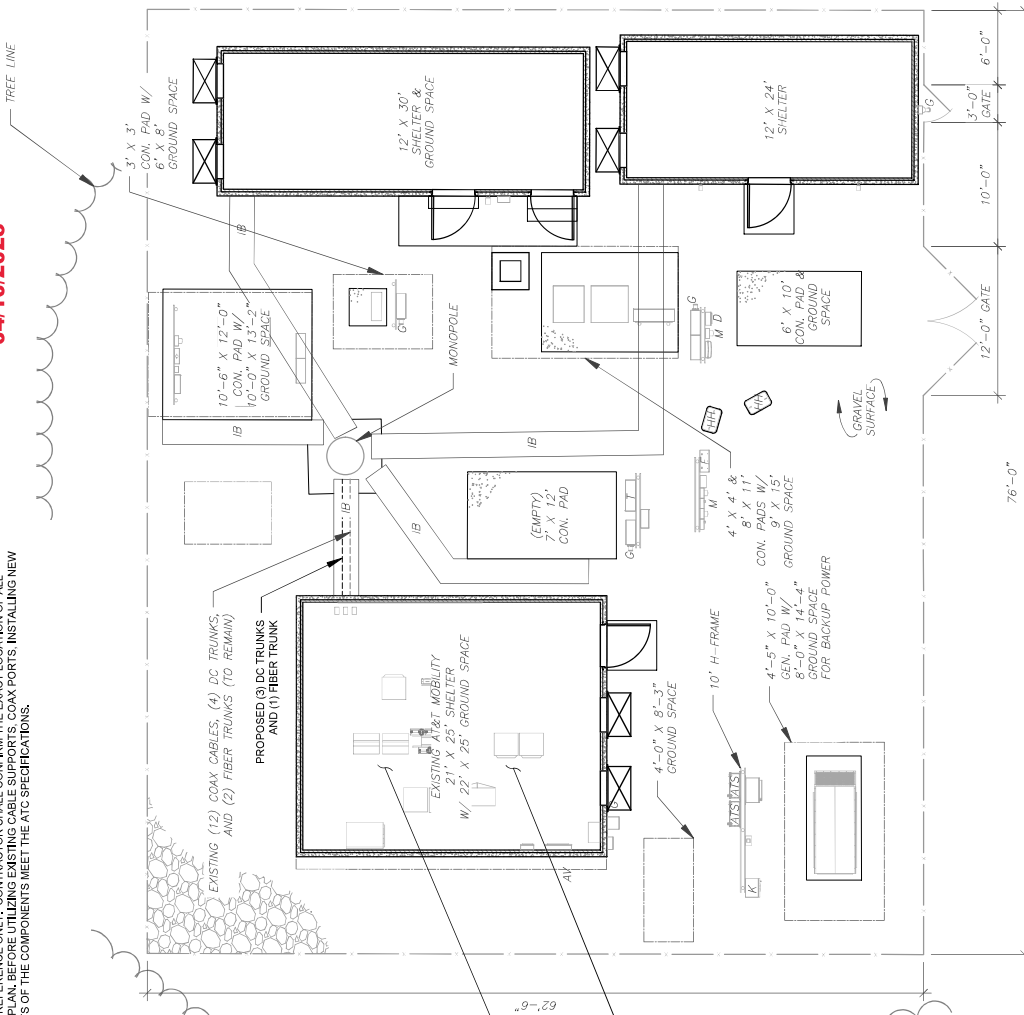
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DERIVED 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.
- NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.

LEGEND	
⊙	GROUNDING TEST WELL
⊙	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	TELEPHONE
TRN	TRANSFORMER
---	CHAINLINK FENCE

REMOVE (9) DIPLEXER(S) (3) AND DECON UMTS (BBU(S))

INSTALL (3) RECTIFIERS (3) RRU(S), (6) SURGE ARRESTOR(S), (1) BBS646 AND (1) DC12

**REDLINED PHOENIX UNITED**  
04/10/2023



1 DETAILED SITE PLAN



**American Tower**

**Dewberry**  
Dewberry Engineers Inc.  
89 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.686.3400

REV.	DESCRIPTION	BY	DATE
1	PRELIM	JW	11/11/21
2	FINAL	JL	04/14/22
3	FINAL	HMP	08/14/22
4	FINAL	HMP	10/05/22

ATC SITE NUMBER:  
**302483**

ATC SITE NAME:  
**BRIN - BERLIN**

AT&T MOBILITY SITE NAME:  
**BERLIN NE**

SITE ADDRESS:  
286 BECKLEY ROAD  
BERLIN, CT 06037



DATE DRAWN: 11/11/21  
ATC JOB NO: 1382891  
CUSTOMER ID: BERLIN NE  
CUSTOMER #: 10034969

DETAILED SITE PLAN

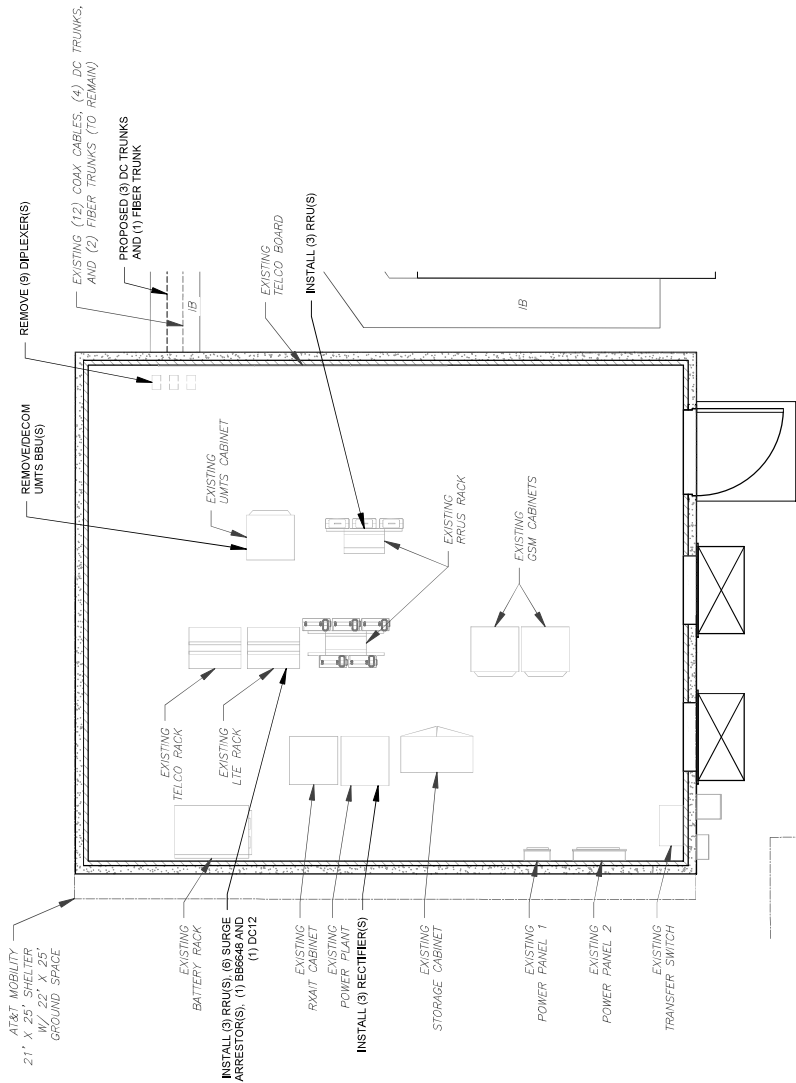
SHEET NUMBER: **C-101**

REVISION: **2**

**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.
- NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.

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



1 DETAILED SHELTER PLAN



SCALE: 1"=5' (11X17)  
1"=25' (22X34)

**American Tower**

**Dewberry**  
Dewberry Engineers Inc.  
89 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.688.3400

REV.	DESCRIPTION	BY	DATE
1	PRELIM	JW	11/11/21
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3	FINAL	HMP	08/14/22
4	FINAL	HMP	10/05/22

ATC SITE NUMBER:  
**302483**

ATC SITE NAME:  
**BRLN - BERLIN**

AT&T MOBILITY SITE NAME:  
**BERLIN NE**

SITE ADDRESS:  
286 BECKLEY ROAD  
BERLIN, CT 06037



**AT&T**

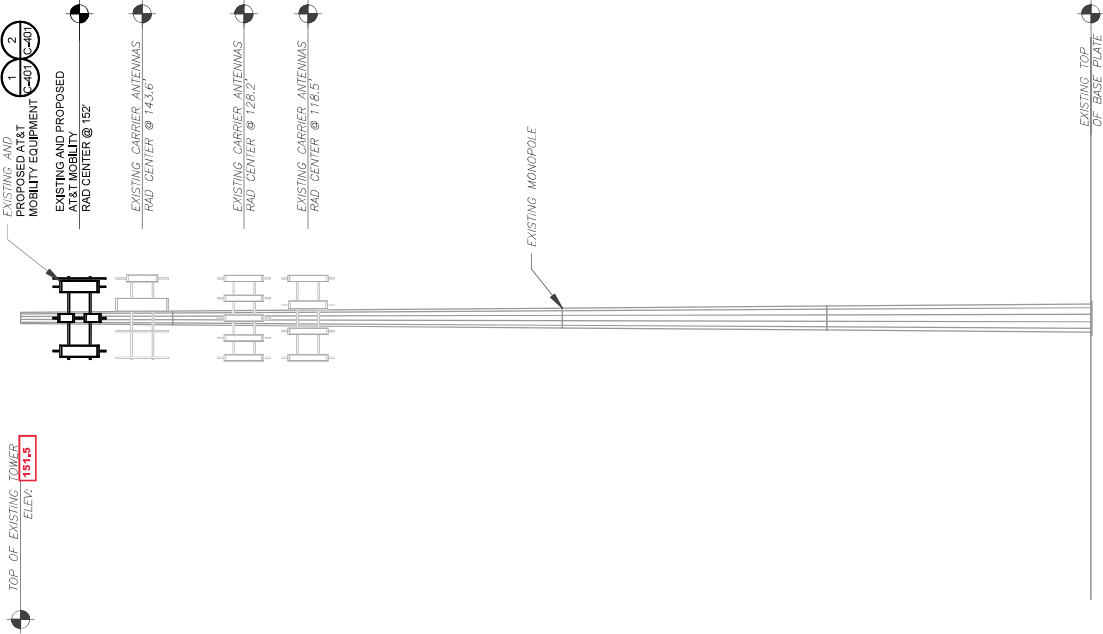
DATE DRAWN: 11/11/21  
ATC JOB NO: T382891  
CUSTOMER ID: BERLIN NE  
CUSTOMER #: 10034969

**DETAILED EQUIPMENT LAYOUT**

SHEET NUMBER: **C-102**

REVISION: **2**

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**04/10/2023**



PER MOUNT ANALYSIS COMPLETED BY TELAMON, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

- TOWER NOTE**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL THE PROJECT PERMITS AND TO HAVE THE BEST REPRESENTATION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS. THE CONTRACTOR SHALL VERIFY ALL EXISTING EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
  - EXISTING CABLES SHALL BE REMOVED AND NEW EXISTING CABLES SHALL BE INSTALLED 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 IS NOT FEASIBLE. ALL CABLES OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING, ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAPS OR MOUNTING HARDWARE AND MANUFACTURER'S RECOMMENDED 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.)

**1** TOWER ELEVATION  
 SCALE: N.T.S.

**Dewberry®**  
 Dewberry Engineers Inc.  
 89 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.688.3400

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JWL	11/11/21
B	FINAL	JWL	04/14/22
C	FINAL	HMP	08/14/22
D	FINAL	HMP	10/05/22

ATC SITE NUMBER:  
**302483**

ATC SITE NAME:  
**BRLN - BERLIN**

AT&T MOBILITY SITE NAME:  
**BERLIN NE**

SITE ADDRESS:  
 286 BECKLEY ROAD  
 BERLIN, CT 06037



DATE DRAWN:	11/11/21
ATC JOB NO.:	1382891
CUSTOMER ID:	BERLIN NE
CUSTOMER #:	10034969

**TOWER ELEVATION**

SHEET NUMBER:	<b>C-201</b>
REVISION:	<b>2</b>



REV.	DESCRIPTION	BY	DATE
A	PRELIM	JW	11/11/21
B	FINAL	JL	04/14/22
C	FINAL	HMP	08/14/22
D	FINAL	HMP	10/05/22

ATC SITE NUMBER: 302483

ATC SITE NAME: BRUN - BERLIN

AT&T MOBILITY SITE NAME: BERLIN NE

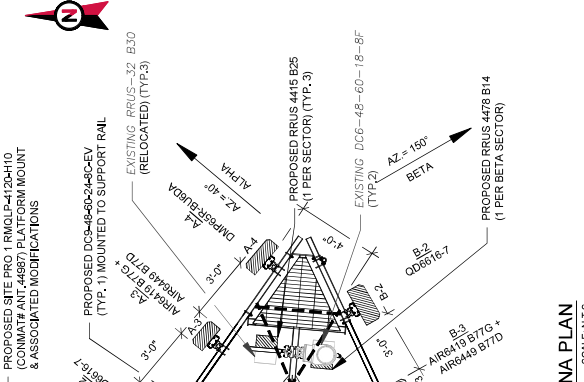
SITE ADDRESS: 286 BECKLEY ROAD BERLIN, CT 06037



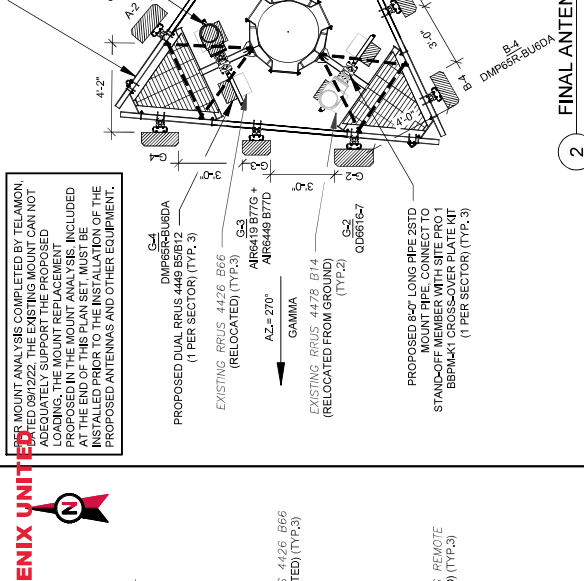
DATE DRAWN:	11/11/21
ATC JOB NO.:	13826891
CUSTOMER ID:	BERLIN NE
CUSTOMER #:	10034669

RF SCHEDULE AND ANTENNA INSTALLATION

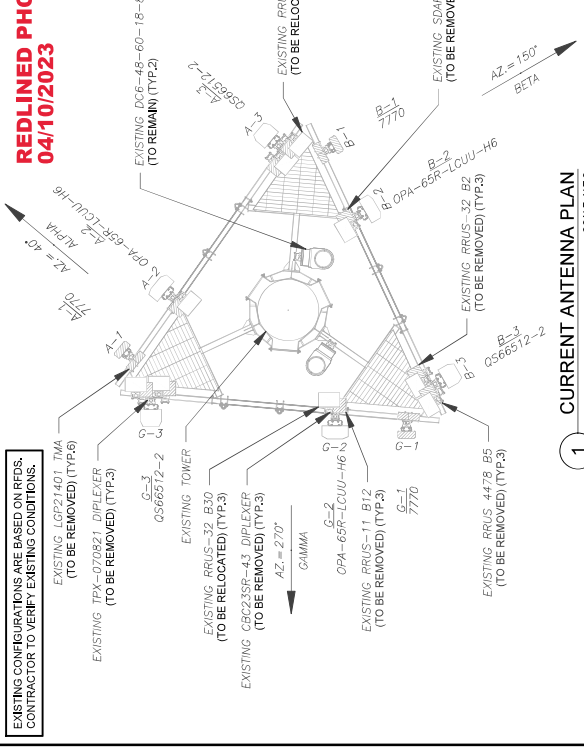
SHEET NUMBER:	C-401
REVISION:	2



1 CURRENT ANTENNA PLAN SCALE: N.T.S.



2 FINAL ANTENNA PLAN SCALE: N.T.S.



3 EQUIPMENT SCHEDULES

**REDLINED PHOENIX UNITED**  
04/10/2023

RF MOUNT ANALYSIS COMPLETED BY TELAMON, (COMMIT# ANT\_46987) PLATFORM MOUNT ADOPTED 08/22/22. THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED THE END PIER SET. THIS SET MUST BE INSTALLED IN CONFORMANCE WITH THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

PROPOSED DUAL RRUS 4449 B5/812 (1 PER SECTOR) (TYP.3)  
EXISTING RRUS 4426 B66 (RELOCATED) (TYP.3)  
ARR6419 B77G + ARR649 B77D (RELOCATED) (TYP.2)  
AZ = 270°  
GAMMA  
PROPOSED 85' LONG PIPE 2810 MOUNT PIPE CONNECT TO STANDBY MEMBER WITH SITE PRO 1 BPPM41 CROSS-OVER PLATE KIT (1 PER SECTOR) (TYP.3)

PROPOSED SITE PRO 1 RMQLP-4120H10 (COMMIT# ANT\_46987) PLATFORM MOUNT & ASSOCIATED MODIFICATIONS  
PROPOSED RRUS-32 B30 (RELOCATED) (TYP.2)  
AZ = 150°  
BETA

EXISTING RRUS 4478 B14 (RELOCATED) (TYP.2)  
AZ = 150°  
BETA  
EXISTING RRUS-32 B30 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS-11 B12 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS-32 B30 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS-32 B30 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS-32 B30 (TO BE REMOVED) (TYP.3)

EXISTING RRUS 4478 B5 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS 4426 B66 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS-32 B30 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS-11 B12 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS-32 B30 (TO BE REMOVED) (TYP.3)  
EXISTING RRUS-32 B30 (TO BE REMOVED) (TYP.3)

SECTOR	RAD	AZ	EXISTING ANTENNA SUMMARY		NON ANTENNA SUMMARY	
			ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	152°	40°	A1	UMTS 850	R/W	(2) LGP21401
			A2	LTE 700, LTE WCS	REL	RRUS-11 B12
			A3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	REL	RRUS-32 B30
			B1	UMTS 850	R/W	RRUS-11 B12
			B2	LTE 700, LTE WCS	REL	RRUS-32 B30
BETA	152°	150°	G1	UMTS 850	R/W	(2) LGP21401
			G2	LTE 700, LTE WCS	REL	RRUS-32 B30
			G3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	REL	RRUS-32 B30
			B3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	REL	RRUS-32 B30
			B4	LTE 700, LTE WCS	REL	RRUS-32 B30
GAMMA	152°	270°	G1	UMTS 850	R/W	(2) LGP21401
			G2	LTE 700, LTE WCS	REL	RRUS-32 B30
			G3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	REL	RRUS-32 B30
			B3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	REL	RRUS-32 B30
			B4	LTE 700, LTE WCS	REL	RRUS-32 B30

SECTOR	RAD	AZ	EXISTING ANTENNA SUMMARY		NON ANTENNA SUMMARY	
			ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	152°	40°	A2	LTE 700, LTE WCS	ADD	RRUS 4415 B25
			A3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	ADD	RRUS 4426 B66
			A4	LTE 700, LTE WCS	ADD	RRUS-32 B30
			B2	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	ADD	RRUS 4415 B25
			B3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	ADD	RRUS 4426 B66
BETA	152°	150°	B2	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	ADD	RRUS 4415 B25
			B3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	ADD	RRUS 4426 B66
			B4	LTE 700, LTE WCS	ADD	RRUS-32 B30
			B3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	ADD	RRUS 4415 B25
			B4	LTE 700, LTE WCS	ADD	RRUS-32 B30
GAMMA	152°	270°	G2	LTE 700, LTE WCS	ADD	RRUS 4449 B5/812
			G3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	ADD	RRUS-32 B30
			G4	LTE 700, LTE WCS	ADD	RRUS 4415 B25
			G3	LTE 850, LTE 700, LTE 1900, 5G 850, LTE AWS	ADD	RRUS 4426 B66
			G4	LTE 700, LTE WCS	ADD	RRUS-32 B30

EXISTING FIBER DISTRIBUTION(S)		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	COAX	FIBER
(1) DC6-48-60-18-8F	R/W	(12)	(2)
(2) DC6-48-60-18-8F	R/W	(4)	(2)

FINAL FIBER DISTRIBUTION(S)		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	COAX	FIBER
(1) DC6-48-60-18-8F	ADD	(12)	(4)
(2) DC6-48-60-18-8F	R/W	(4)	(2)

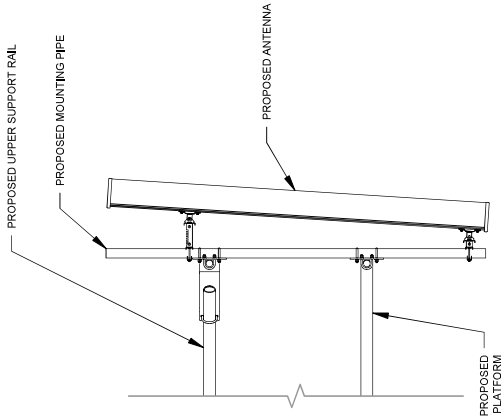
- NOTES**
- CONFIRM WITH AT&T MOBILITY UPDATES REVISIONS AND MOST RECENT REFS FOR NSN CONFIGURATION (CONF), GO TO EQUIPMENT MANUFACTURER WEBSITE FOR THE LATEST CONFIGURATION. EQUIP DOES NOT CAUSE TOWER CLIPPING PEGS. ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS SHALL BE VERIFIED BY ALL CONTRACTORS PRIOR TO INSTALLATION AND NOTIFY ATC PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRST NET REQUIREMENTS (SEE SHEET 16402).

**CABLE LENGTHS FOR JUMPEERS**  
JUNCTION BOX TO RRU: 15'  
RRU TO ANTENNA: 10'

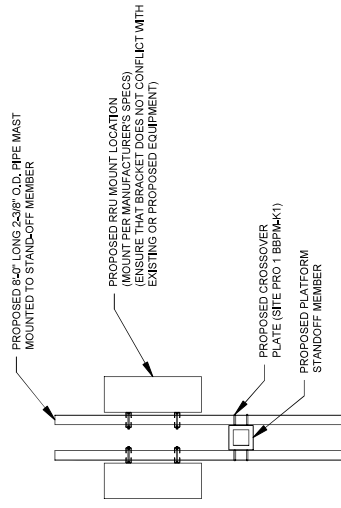
**STATUS ABBREVIATIONS**  
R/W: TO BE REMOVED  
ADD: TO BE ADDED  
REL: TO BE RELOCATED

EXISTING FIBER DISTRIBUTION(S)	STATUS	COAX	FIBER	STATUS
(1) DC6-48-60-18-8F	ADD	(12)	(4)	ADD
(2) DC6-48-60-18-8F	R/W	(4)	(2)	R/W

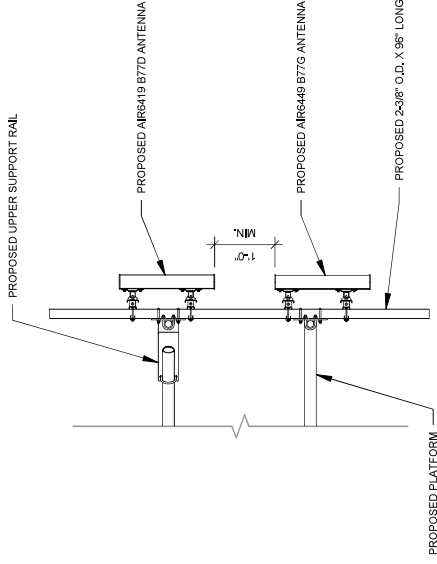
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**04/10/2023**



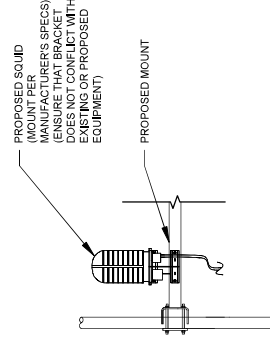
**1** ANTENNA DETAIL  
 SCALE: N.T.S.



**3** PROPOSED RRU MOUNTING DETAIL - TYPICAL  
 SCALE: N.T.S.



**2** PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL  
 SCALE: N.T.S.



**4** PROPOSED SQUID MOUNTING  
 SCALE: N.T.S.



**Dewberry**  
 Dewberry Engineers Inc.  
 89 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.688.3400

REV.	DESCRIPTION	BY	DATE
△	PRELIM	JW	11/11/21
△	FINAL	VL	04/14/22
△	FINAL	HMP	08/14/22
△	FINAL	HMP	10/05/22

ATC SITE NUMBER:  
**302483**

ATC SITE NAME:  
**BRIN - BERLIN**  
 AT&T MOBILITY SITE NAME:  
**BERLIN NE**

SITE ADDRESS:  
 286 BECKLEY ROAD  
 BERLIN, CT 06037

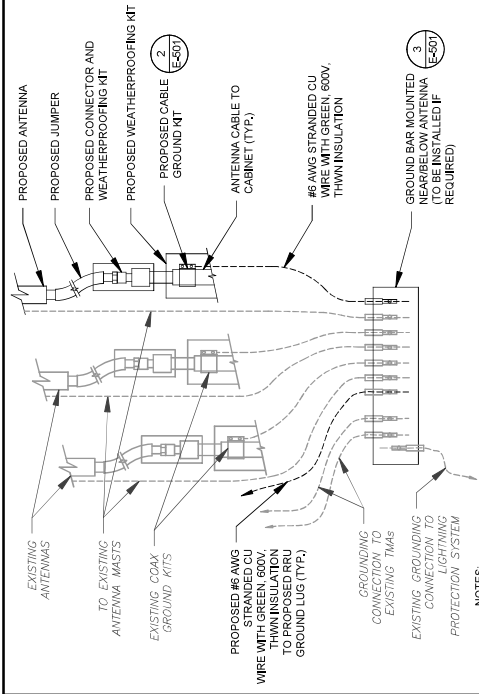
SEAL:



DATE DRAWN:	11/11/21
ATC JOB NO.:	T382891
CUSTOMER ID:	BERLIN NE
CUSTOMER #:	10034669

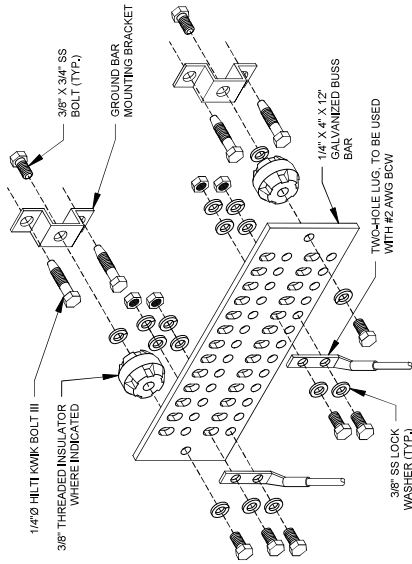
**CONSTRUCTION  
 DETAILS**

SHEET NUMBER:	<b>C-501</b>
REVISION:	<b>2</b>



- NOTES:**
- 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.
  - SITE GROUNDING SHALL COMPLY WITH AT&T MOBILITY GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T MOBILITY GROUNDING CHECKLIST, LATEST VERSION. FEDERAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT; THEY SHALL GOVERN.

**1 TYPICAL ANTENNA GROUNDING DIAGRAM**  
SCALE: N.T.S.

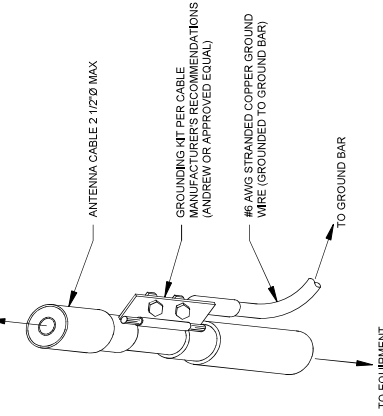


**GROUND BAR NOTES**

- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HLT11 KWIK BOLT III.

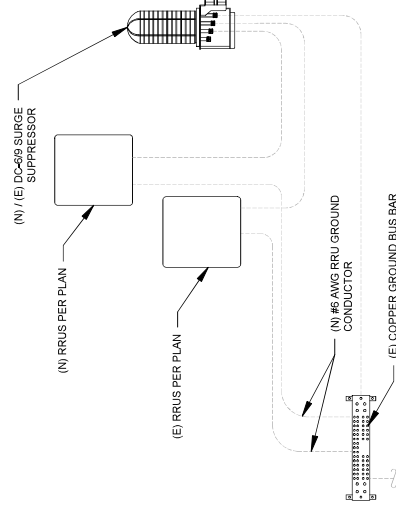
**4 MAIN GROUND BAR DETAIL**  
SCALE: N.T.S.

**REDLINED PHOENIX UNITED**  
04/10/2023 ENVA

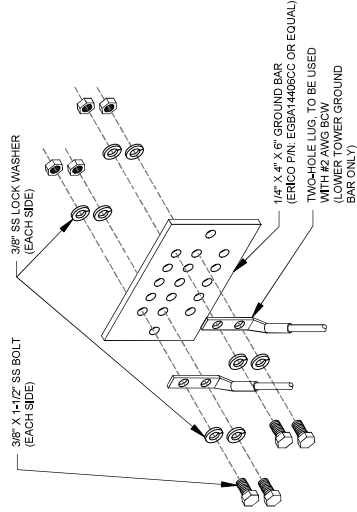


- GROUND KIT NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  - NUMBER 22(213) AND INSTALL TAPE PER MANUFACTURER'S SPECIFICATIONS.

**2 CABLE GROUND KIT CONNECTION DETAIL**  
SCALE: N.T.S.



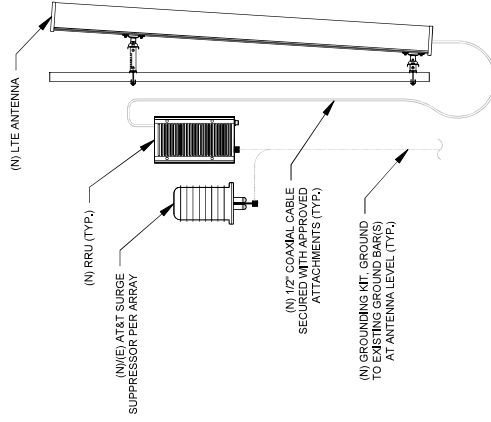
**5 RRU GROUNDING**  
SCALE: N.T.S.



**GROUND BAR NOTES:**

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

**3 TOWER GROUND BAR DETAIL**  
SCALE: N.T.S.



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

**AMERICAN TOWER**

**Dewberry**  
Dewberry Engineers Inc.  
89 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.688.3400

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JWL	11/11/21
B	FINAL	JWL	04/14/22
C	FINAL	HMP	08/14/22
D	FINAL	HMP	10/05/22

ATC SITE NUMBER:  
**302483**

ATC SITE NAME:  
**BRIN - BERLIN**

AT&T MOBILITY SITE NAME:  
**BERLIN NE**

SITE ADDRESS:  
286 BECKLEY ROAD  
BERLIN, CT 06037

SEAL:

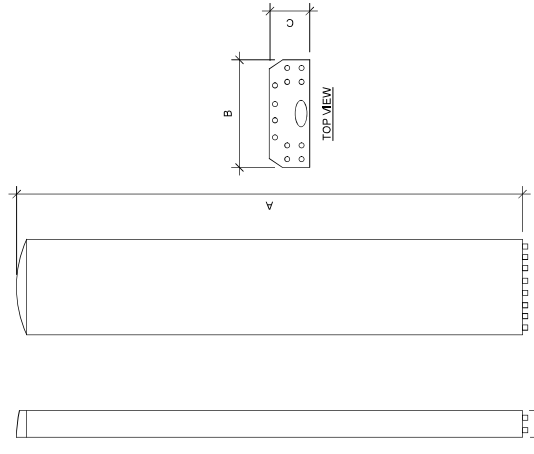


DATE DRAWN:	11/11/21
ATC JOB NO.:	1382891
CUSTOMER ID:	BERLIN NE
CUSTOMER #:	10034669

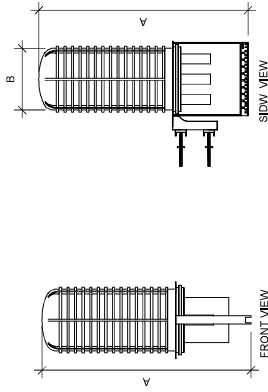
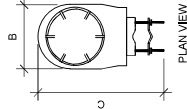
**GROUNDING DETAILS**

SHEET NUMBER:	<b>E-501</b>
REVISION:	<b>2</b>

**REDLINED PHOENIX UNITED**  
**04/10/2023**



ANTENNA SPECIFICATIONS			
ANTENNA MODEL	A	B	C
QD661P-7	72"	22"	9.6"
APR6449 B77D	30.4"	15.9"	8.1"
APR6419 B77G	30.0"	15.7"	6.7"
DMR666-BUDED6A	71.2"	20.7"	7.7"
			79.4



RAYCAP SPECIFICATIONS			
RAYCAP MODEL	A	B	C
DC9-48-80-24-8C-EV	31.4"	18.3"	10.2"
			16.0

**1** EQUIPMENT SPECIFICATIONS  
 SCALE: N.T.S.



**American Tower**  
 Dewberry®  
 Dewberry Engineers Inc.  
 89 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.688.3400

ATC SITE NUMBER:  
**302483**

AT&T SITE NAME:  
**BRIN - BERLIN**

AT&T MOBILITY SITE NAME:  
**BERLIN NE**

SITE ADDRESS:  
 286 BECKLEY ROAD  
 BERLIN, CT 06037



DATE DRAWN: 11/11/21  
 ATC JOB NO: T382891  
 CUSTOMER ID: BERLIN NE  
 CUSTOMER #: 10034969

**SUPPLEMENTAL**

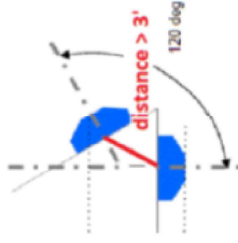
SHEET NUMBER:  
**R-601**

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**REDLINED PHOENIX UNITED**  
04/10/2023

## **RF REQUIREMENTS FOR 700 B14 FIRSTNET, 700 B12, 700D B29 ANTENNA SEPARATION**

- Horizontal separation (side to side of antenna):  $\geq 3'$
- Vertical separation (between the tips of the antennas):  $> 3'$
- Inter-sector separation:  $> 3'$  between the center of the antenna backplanes.



- Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- Typical 3' horizontal separation can tolerate skew angle up to  $6^\circ$ .



**AMERICAN TOWER**  
**Dewberry**  
Dewberry Engineers Inc.  
89 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.688.3900

ATC SITE NUMBER:  
302483  
ATC SITE NAME:  
BRLN - BERLIN  
AT&T MOBILITY SITE NAME:  
BERLIN NE  
SITE ADDRESS:  
286 BECKLEY ROAD  
BERLIN, CT 06037



DATE DRAWN: 11/11/21  
ATC JOB NO: T3622891  
CUSTOMER ID: BERLIN NE  
CUSTOMER #: 10034969

SUPPLEMENTAL

SHEET NUMBER:  
**R-602**

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED  
BY REQUEST OF CUSTOMER WITHOUT EDIT.



**REDLINED PHOENIX UNITED**  
04/10/2023



This report was prepared for American Tower Corporation by

**Antenna Mount Analysis Report**

ATC Site Name : Brln - Berlin  
 ATC Asset Number : 302483  
 Engineering Number : 13682691\_C8\_06  
 Mount Elevation : 151.75 ft  
 Carrier : AT&T Mobility  
 Carrier Site Name : MRCTB051296  
 Carrier Site Number : N/A  
 Site Location : 268 Beckley Road  
 Berlin, CT 06037-2419  
 41.63172222, -72.7299  
 County : HARTFORD  
 Date : September 12, 2022  
 Max Usage : 77%  
 Result : Contingent Pass\*

\*See conclusion for requirements

Prepared By: Prathamesh Padwal  
 Telamon Tower Engineering, PLLC  
 Reviewed By: Digitally signed by William Holt  
 Date: 2022.09.12 14:35:37 -0400



Mount Analysis for American Tower  
 302483 - Brln - Berlin  
 September 12, 2022  
 Telamon Tower Engineering, PLLC Project#1124-13682691\_C8\_06-02-MA

**Introduction**

The proposed equipment is to be mounted to the existing Site Pro 1.RMQLP-4120-H10 (ANT.44937) Platform w/ Support Rails and Kickers. This proposed mounting configuration was analyzed using RISA-3D, a commercially available finite element analysis software package. A selection of input and output from our analysis is attached to the end of this report.

**Supporting Documents**

Structural Data	Site Photos dated July 03, 2019 Spec Sheet by Site Pro 1.DWG. No. RMQLP-4120-H10, dated October 18, 2019
Previous Analyses	Tower SA by CLS Engineering PLLC, Eng. Number 13732523_C3_02, dated September 23, 2021
Loading Data	ATC Application, Project#13682691, dated October 27, 2021 AT&T RFDS, RFDS ID: 4387644, Version 5.00, dated June 22, 2022

**Analysis**

Codes	TIA-222-H
Basic Wind Speed	118 mph, $V_{w,3}$ [3-Second Gust]
Basic Wind Speed w/ Ice	50 mph [3-Second Gust] w/ 1.5" Radial Ice (Escalating)
Exposure Category	B
Topographic Factor Procedures:	Method 2
Feature:	Flat
Crest Height (ft):	0 ft
Crest Length (ft):	0 ft
Risk Category	II
Maintenance Live Load	Sur: 500 lb
Spectral Response	S <sub>1</sub> : 0.20; S <sub>2</sub> : 0.06; Site Class: D

NOTE: THIS SHEET WAS CREATED BY OTHERS AND IS PROVIDED AS IS. THE CUSTOMER IS TO CHECK WITH THE AT&T MOBILITY CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.



ATC SITE NUMBER:  
302483  
 ATC SITE NAME:  
BRln - Berlin  
 AT&T MOBILITY SITE NAME:  
BERLIN NE  
 SITE ADDRESS:  
286 BECKLEY ROAD  
BERLIN, CT 06037



DATE DRAWN: 11/11/21  
 ATC JOB NO: 13682691  
 CUSTOMER ID: BERLIN NE  
 CUSTOMER #: 10034669

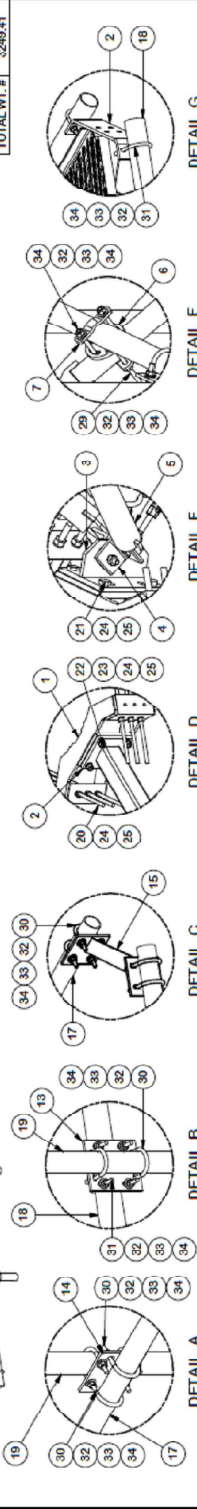
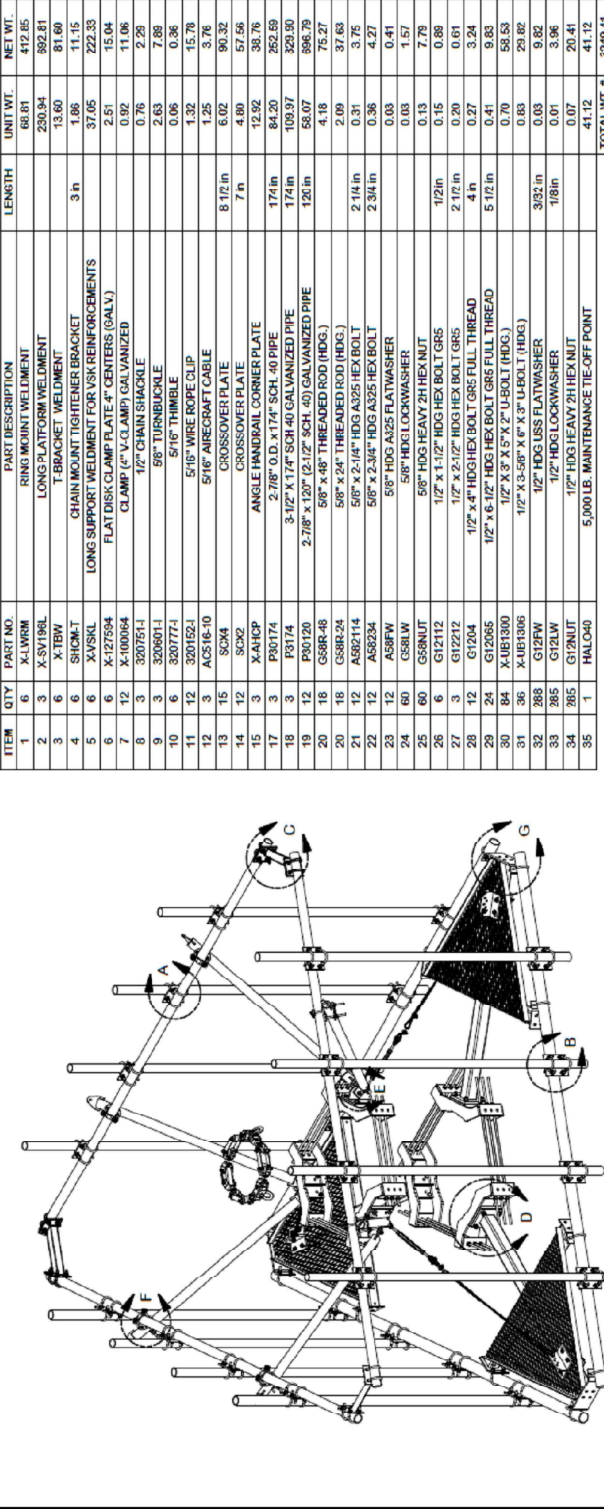
SUPPLEMENTAL

SHEET NUMBER:  
R-603

**REDLINED PHOENIX UNITED**  
04/10/2023

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-11WSM	RING MOUNT WELDMENT		68.81	412.85
2	3	X-51198L	LONG PLATFORM WELDMENT		230.94	892.81
3	6	X-TRW	T BRACKET WELDMENT		13.60	81.60
4	6	SUCH17	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	11.15
5	6	X-YSKL	LONG SUPPORT WELDMENT FOR VSK REINFORCEMENTS		37.05	222.33
6	X-121594	FLAT DISK CLAMP PLATE # CENTERS (GALV.)			2.51	15.04
7	X-100694	CLAMP (# V.C.LAMP) GALVANIZED			0.92	11.06
8	3	320751-1	1/2" CHAIN SHACKLE		0.76	2.28
9	3	320901-1	5/8" TURNBUCKLE		0.06	0.36
10	6	320771-1	5/16" THIMBLE		1.32	15.78
11	12	320152-1	5/16" WIRE ROPE CLIP		1.25	3.76
12	3	AGS16-10	5/16" AIRCRAFT CABLE	8 1/2 in	6.02	90.32
13	15	SCM4	CROSSOVER PLATE	7 in	4.80	57.56
14	12	SCM2	CROSSOVER PLATE		12.92	38.76
15	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		84.20	252.59
17	3	P30174	2-7/8" O.D. X 174" SCH. 40 PIPE	174 in	109.97	329.90
18	3	P30174	3-1/2" X 174" SCH 40 GALVANIZED PIPE	174 in	58.07	896.79
19	12	P30120	2-7/8" X 120" (2-1/2" SCH. 40) GALVANIZED PIPE	120 in	4.18	75.27
20	18	GSRR-48	5/8" X 48" THREADED ROD (HDG.)		2.09	37.63
21	12	ASB2114	5/8" X 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	3.75
22	12	ASB234	5/8" X 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	4.27
23	12	ASBFW	5/8" HDG A325 FLAT WASHER		0.03	0.41
24	60	GS8LW	5/8" HDG LOCKWASHER		0.03	1.57
25	60	GS8NUT	5/8" HDG HEAVY ZH HEX NUT		0.13	7.79
26	6	G12112	1/2" X 1-1/2" HDG HEX BOLT GR5	1 1/2 in	0.15	0.89
27	3	G12112	1/2" X 2-1/2" HDG HEX BOLT GR5	2 1/2 in	0.20	0.61
28	12	G12104	1/2" X 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	3.24
29	24	G12065	1/2" X 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	9.83
30	54	X-UB1300	1/2" X 3" X 5" X 2" (UBOLT) (HDG.)		0.70	58.53
31	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" (UBOLT) (HDG.)		0.63	29.82
32	288	G121W	1/2" HDG LSS FLAT WASHER	3/32 in	0.03	9.82
33	288	G121W	1/2" HDG LOCKWASHER	1/8 in	0.01	3.96
34	36	G121NUT	1/2" HDG HEAVY ZH HEX NUT		0.07	20.41
35	1	HALOAD	5,000 LB. MAINTENANCE TIE-OFF POINT		41.12	41.12
<b>TOTAL WT. #</b>						<b>3249.41</b>

**PARTS LIST**



<p><b>TOLERANCE NOTES</b></p> <p>UNLESS OTHERWISE NOTED ARE TO BE USED UNLESS OTHERWISE NOTED ARE DRILLED AND GAS CUT HOLES (± 0.030") - NO CORING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO CORING OF HOLES ALL OTHER MACHINING (± 0.005") ALL OTHER MACHINING (± 0.005")</p>		<p>DESCRIPTION: 41" 6" LOW PROFILE PLATFORM WITH TWELVE 2-7/8" ANTENNA MOUNTING PIPES, REINFORCED HANDRAIL, AND CABLE</p>	<p>DATE: 10/17/2019</p> <p>BY: CSL</p>	<p>DATE: 10/18/2019</p> <p>BY: BMC</p>
<p>87</p>	<p>02</p>	<p>CUSTOMER</p>	<p>RMQLP-4120-H10</p>	<p>RMQLP-4120-H10</p>

**1 LOW-PROFILE PLATFORM ASSEMBLY**

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTORS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.



**AMERICAN TOWER**  
**Dewberry**  
Dewberry Engineers Inc.  
89 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.688.3400

ATC SITE NUMBER:  
**302483**  
ATC SITE NAME:  
**BRLN - BERLIN**  
AT&T MOBILITY SITE NAME:  
**BERLIN NE**  
SITE ADDRESS:  
**286 BECKLEY ROAD  
BERLIN, CT 06037**



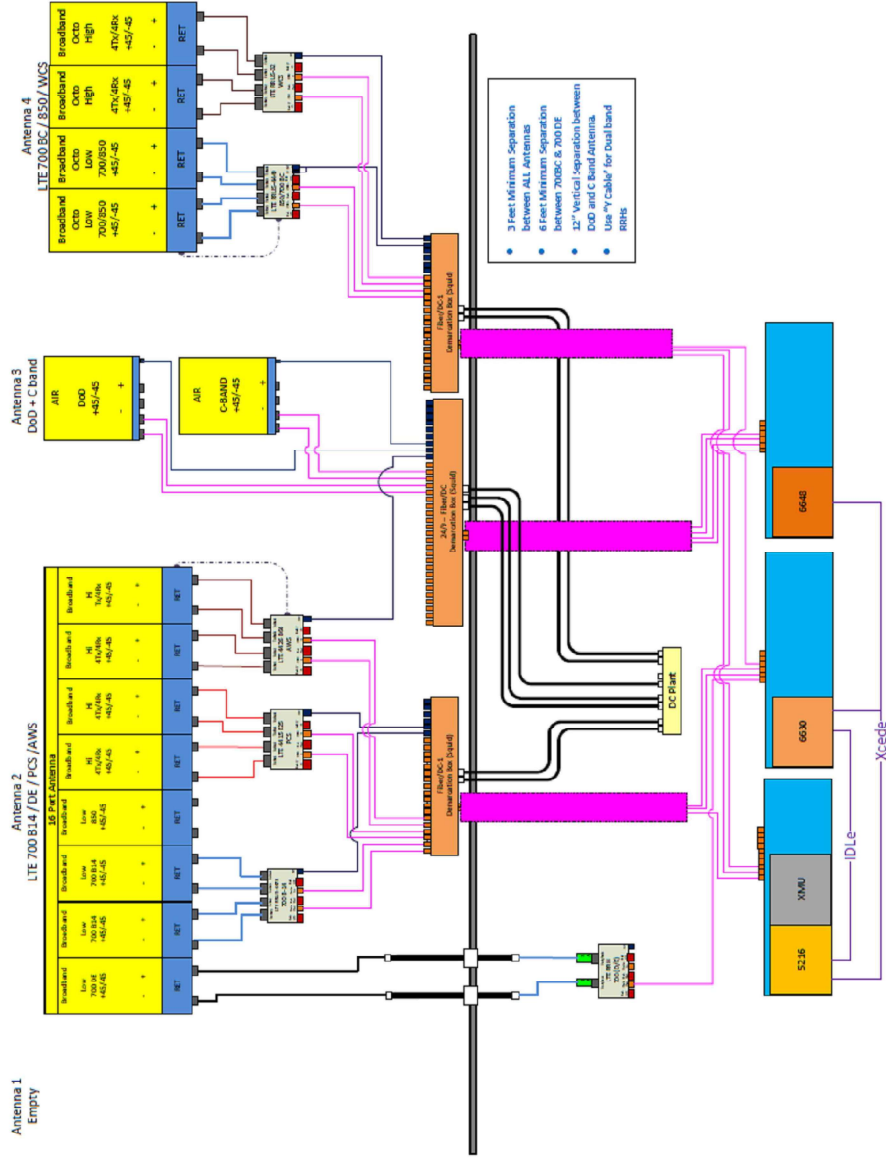
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ATC JOB NO.: 1382891  
CUSTOMER ID: BERLIN NE  
CUSTOMER #: 10034669

**SUPPLEMENTAL**

SHEET NUMBER:  
**R-604**

**REDLINED PHOENIX UNITED**  
**04/10/2023**

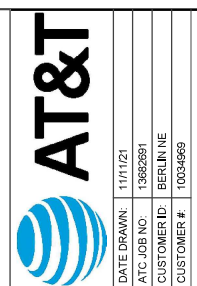
Diagram File Name - CT1014\_ABC\_C-BAND DDD\_Rev6.rxd  
 Location Name - BERLIN NE  
 Market - CONNECTICUT  
 New England  
 Comments: \*Important Note- For detailed radio to antenna wiring refer to the latest field notes - Antenna Radio Connection Drawings Playback v1.0 - Ericsson\*



NOTE: THIS SHEET WAS CREATED BY OTHERS AND IS PROVIDED AS IS. THE CONTRACTOR IS TO CHECK WITH THE AT&T MOBILITY CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE REDS.



ATC SITE NUMBER:  
 302483  
 ATC SITE NAME:  
 BRIN - BERLIN  
 AT&T MOBILITY SITE NAME:  
 BERLIN NE  
 SITE ADDRESS:  
 286 BECKLEY ROAD  
 BERLIN, CT 06037



DATE DRAWN: 11/11/21  
 ATC JOB NO: T362691  
 CUSTOMER ID: BERLIN NE  
 CUSTOMER #: 10034969

SUPPLEMENTAL  
 SHEET NUMBER:  
 R-605

Network: Apr 14, 2023 at 8:04:43 AM EDT

Local: Apr 14, 2023 at 8:04:42 AM EDT

