



August 7, 2023

Attorney Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06501

EM-T-MOBILE-064-200921

T-Mobile Site ID CT11461B

305 West Service Road, Hartford CT

Notice of Compliance with Conditions and Construction Completion

Dear Attorney Bachman:

The T-Mobile site referenced above was approved by The Connecticut Siting Council (Council) on October 13, 2020 as an Exempt Modification. T-Mobile is now requesting the close out of the approval and hereby acknowledges the following conditions were met:

1. Prior to T-Mobile's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by American Tower Corporation, dated August 24, 2020 and stamped and signed by Esha Kaushal Modi;
2. Within 45 days following completion of equipment installation, T-Mobile shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;
3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
5. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;



NSS **NORTHEAST**
SITE SOLUTIONS
Turnkey Wireless Development

6. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by T-Mobile shall be removed within 60 days of the date the antenna ceased to function;
7. The validity of this action shall expire one year from the date of this letter; and
8. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The attached PE Closeout Letter dated June 16, 2023 provides evidence of compliance with the conditions outlined by the Council. In addition, T-Mobile hereby notifies the Council that construction of the acknowledged modifications was completed as of January 15, 2021.

Sincerely,

Victoria Masse

Victoria Masse
Zoning and Permitting
Northeast Site Solutions



June 16, 2023

To: Hartford, CT – Department of Developmental Services
260 CONSTITUTION PLAZA
HARTFORD, CONNECTICUT 06103

Re: **ATC Site Name:** West Service Road
ATC Site Number: 302466
T-Mobile Site Number: CT11491B
ATC Site Address: 305 W. Service Road
Hartford, CT 06120

Reviewed by:



To whom it may concern,

T-Mobile installed at the telecommunications facility at the above location. We have reviewed the provided construction photos and As-Built Drawings and have provided comments on the installation in the following summary. The installation was found to be in compliance with the issued construction drawings and applicable building codes.

Equipment Removed:

- CABINET, (3) ANTENNA(s) AND (3) RRH(s)

Equipment Installed:

- MOUNT MODIFICATIONS, (3) MOUNTING PIPES, (6) ANTENNA(s), (6) RRH(s), (2) 1-1/4" HYBRID CABLES, (1) 6160 AC CABINET AND (1) ENCLOSURE B160 BATTERY CABINET

Discrepancy Note:

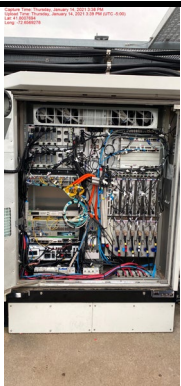
- None

Please contact the engineer of record at AE@americantower.com with any questions regarding this matter.

Thank you,
American Tower Corporation


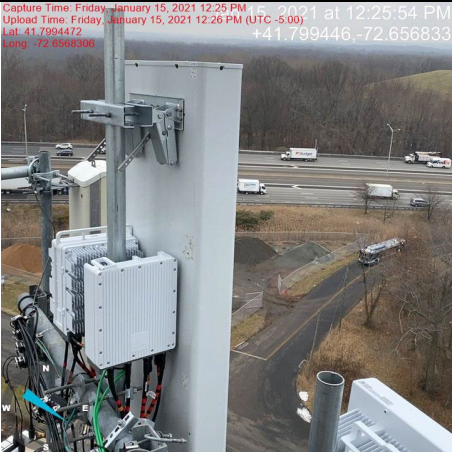
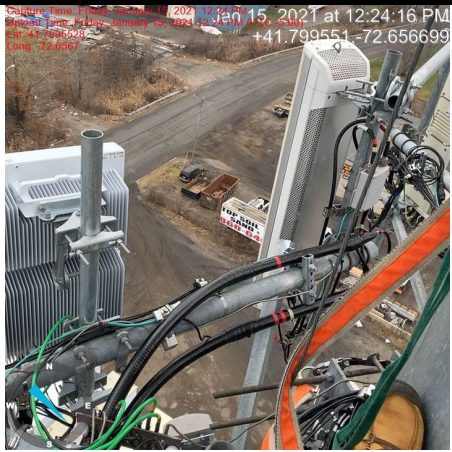


AMERICAN TOWER®
CORPORATION

Photo	Description
 <p>305 West Service Rd Hartford CT 06120 United States +1 799 774 72 65 67 0 Jan 15, 2021 at 4:16:42 PM</p>	<p>Description: Antenna Tape Drop:</p> <ul style="list-style-type: none">• Installation at RAD 125' <p>Note: Construction drawings depict a RAD of 125'</p> <p>Recommendation: No Action Required</p>
	<p>Description: Installation of Equipment:</p> <ul style="list-style-type: none">• 6160 AC Cabinet <p>Recommendation: No Action Required</p>
	<p>Description: Installation of Equipment:</p> <ul style="list-style-type: none">• Cabinet Install <p>Recommendation: No Action Required</p>



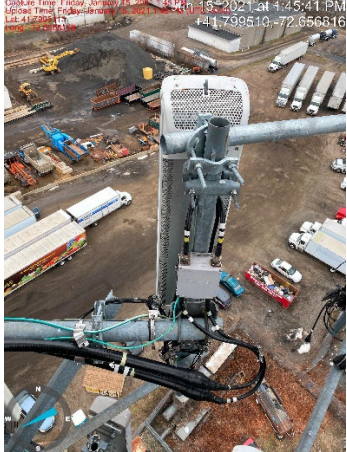


AMERICAN TOWER®
CORPORATION

	<p>Description: Installation of Equipment:</p> <ul style="list-style-type: none">• Battery Cabinet <p>Recommendation: No Action Required</p>
<p>Capture Time: Friday, January 15, 2021 12:25 PM Upload Time: Friday, January 15, 2021 12:26 PM (UTC -5:00) Lat: 41.7994472 Long: -72.6568333</p> 	<p>Description: Installation of Equipment:</p> <ul style="list-style-type: none">• Alpha Sector 1 Antenna + 2 RRH units <p>Recommendation: No Action Required</p>
<p>Capture Time: Friday, January 15, 2021 12:24:16 PM Upload Time: Friday, January 15, 2021 12:24:16 PM Lat: 41.7995511 Long: -72.6566999</p> 	<p>Description: Installation of Equipment:</p> <ul style="list-style-type: none">• Alpha Sector additional Antenna <p>Recommendation: No Action Required</p>



AMERICAN TOWER®
CORPORATION

	<p>Description: Installation of Equipment:</p> <ul style="list-style-type: none">• Hybrid Cable <p>Recommendation: No Action Required</p>
 <p>Capture Time: Friday, January 15, 2021 1:46 PM Upload Time: Friday, January 15, 2021 1:47 PM Lat: 41.7995111 Long: -72.8568138</p>	<p>Description: Installation of Equipment:</p> <ul style="list-style-type: none">• Beta 1 Antenna + 2 RRH units• Bracing Pipe 1ft from CL• 5ft Bracing Pipe <p>Recommendation: No Action Required</p>
 <p>Upload Time: Friday, January 15, 2021 1:45:41 PM Lat: 41.7995111 Long: -72.8568138</p>	<p>Description: Installation of Equipment:</p> <ul style="list-style-type: none">• Beta Sector – Additional antenna• Bracing Pipe 4ft from CL <p>Recommendation: No Action Required</p>



AMERICAN TOWER®
CORPORATION

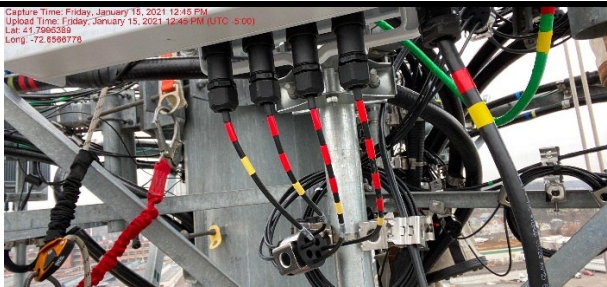


Description: Installation of Equipment:

- Gamma Sector 2 Antennas and 2 RDU units

Recommendation:

No Action Required

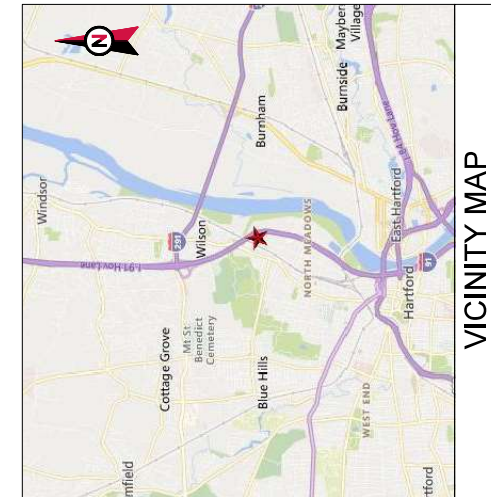


Description: Installation of Equipment:

- Mount alteration, additional detail

Recommendation:

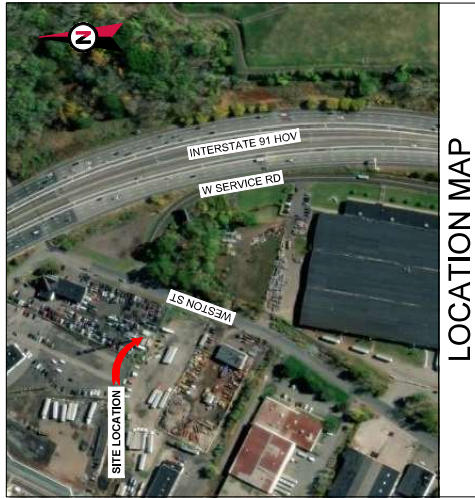
No Action Required



VICINITY MAP



AMERICAN TOWER®
 ATC SITE NAME: WEST SERVICE ROAD
 ATC SITE NUMBER: 302466
 T-MOBILE SITE NAME: CT491/SSITE HARTFORD_MP1
 T-MOBILE SITE NUMBER: CT11491B
 SITE ADDRESS: 305 W. SERVICE RD.
 HARTFORD, CT 06120



LOCATION MAP



AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (603) 468-0112
 COX: REC-0001563

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF AMERICAN TOWER. NO PART OF THIS PUBLICATION SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF AMERICAN TOWER. THE SPECIFIED WARRANTIES ARE STRICTLY LIMITED TO THE PROJECT. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION. AMERICAN TOWER SHALL BE PROVIDING CONSULTING SERVICES UNDER THIS PROJECT. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION. AMERICAN TOWER SHALL BE PROVIDING CONSULTING SERVICES UNDER THIS PROJECT. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION. AMERICAN TOWER SHALL BE PROVIDING CONSULTING SERVICES UNDER THIS PROJECT. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION.

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	CWB	08/18/20
2	ADDED MOUNT ANALYSIS	CWB	09/03/20
3			
4			

ATC SITE NUMBER:
302466
 ATC SITE NAME:
WEST SERVICE ROAD
 T-MOBILE SITE NAME:
CT491/SSITE HARTFORD_MP1



Authorized by "Patrick P. Barry"
 04 Sep 2020 04:40:32
Mobileesign

DATE DRAWN:	08/18/20
ATC JOB NO.:	13251344_C1
CUSTOMER ID.:	CT491/SSITE HARTFORD_MP1
CUSTOMER #:	CT11491B

TITLE SHEET

SHEET NUMBER:	G-001
REVISION:	1

**T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN
 67D5A992DB OUTDOOR CONFIGURATION**

COMPLIANCE CODE		PROJECT SUMMARY		PROJECT DESCRIPTION		PROJECT NOTES			
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 CONSIDERED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES		SITE ADDRESS: 305 W. SERVICE RD. HARTFORD, CT 06120 COUNTY: HARTFORD GEOGRAPHIC COORDINATES: LATITUDE: 41.79653889 LONGITUDE: -72.65699722 GROUND ELEVATION: 20' AMSL		THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: TOWER WORK: REMOVE (3) ANTENNA(S) AND (3) IRR(H) INSTALL MOUNT MODIFICATIONS, (3) MOUNTING PIPES (6) ANTENNA(S), (6) RR(H), AND (2) 1/4" HYBRID CABLES EXISTING (6) ANTENNA(S), (3) TTAG, (12) 1/2" COAX CABLE(S), (1) 1/2" HYBRID CABLE(S), AND (1) 1/4" HYBRID CABLE(S) TO REMAIN GROUND WORK: REMOVE (1) CABINET INSTALL (1) 6160 AC CABINET AND (1) ENCLOSURE 6160 BATTERY CABINET		1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE PER MONTH TO MAINTAIN THE ANTENNAS. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.		PROJECT LOCATION DIRECTIONS DIRECTIONS FROM NEXTEL WHITE PLAINS OAK OFC: 5 BROADWAY (HWY 119) NORTH TO WESTCHESTER AVE. TO 1287 WESTCHESTER AVE. TURN RIGHT ON WESTCHESTER AVE. APPROX. 0.5 MILES TO TAKE LEFT ON EAST 63 MILES TO HIGH ST. (HARTFORD EXT) BEAR LEFT ON MAIN ST. FOR 1.8 MILES THEN TURN RIGHT ONTO FISHPREY ST. FOR 2 MILES TURN LEFT ON WESTON ST. .5 MILES AND THEN LEFT ONTO WEST SERVICE RD. SITE IS SOUTHWEST CORNER OF LARGER VACANT LOT AT CORNER OF WESTON ST. TO KOHLER EQUIP. DISTRIBUTOR.	
PROJECT TEAM		PROJECT LOCATION DIRECTIONS							
TOWER OWNER: AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 ENGINEER: ATC TOWER SERVICES, LLC 3500 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 PROPERTY OWNER: 305 WEST SERVICES RD ASSOC LLC 70 RYE STREET BROAD BROOK, CT 06016		APPLICANT: T-MOBILE NORTHEAST LLC 12650 BALTIMORE AVENUE BELTSVILLE, MD 20705							
UTILITY COMPANIES		PROJECT LOCATION DIRECTIONS							
POWER COMPANY: C. L & P. PHONE: (603) 286-2000 TELEPHONE COMPANY: AT&T PHONE: (603) 288-2020		DIRECTIONS FROM NEXTEL WHITE PLAINS OAK OFC: 5 BROADWAY (HWY 119) NORTH TO WESTCHESTER AVE. TO 1287 WESTCHESTER AVE. TURN RIGHT ON WESTCHESTER AVE. APPROX. 0.5 MILES TO TAKE LEFT ON EAST 63 MILES TO HIGH ST. (HARTFORD EXT) BEAR LEFT ON MAIN ST. FOR 1.8 MILES THEN TURN RIGHT ONTO FISHPREY ST. FOR 2 MILES TURN LEFT ON WESTON ST. .5 MILES AND THEN LEFT ONTO WEST SERVICE RD. SITE IS SOUTHWEST CORNER OF LARGER VACANT LOT AT CORNER OF WESTON ST. TO KOHLER EQUIP. DISTRIBUTOR.							

SHEET INDEX			
SHEET NO.	DESCRIPTION	REV.	DATE
G-001	TITLE SHEET	1	09/03/20
C-002	GENERAL NOTES	0	08/18/20
C-001	DETAILED SITE PLAN	0	08/18/20
C-102	DETAILED GROUND PLAN	0	08/18/20
C-201	TOWER ELEVATION	1	09/03/20
C-401	ANTENNA INFORMATION & SCHEDULE	1	09/03/20
C-301	CONSTRUCTION DETAILS	0	08/18/20
E-501	GROUNDING DETAILS	0	08/18/20
R-601	SUPPLEMENTAL		
R-602	SUPPLEMENTAL		
R-603	SUPPLEMENTAL		
R-604	SUPPLEMENTAL		
R-605	SUPPLEMENTAL		
R-606	SUPPLEMENTAL		
R-607	SUPPLEMENTAL		
R-608	SUPPLEMENTAL		
R-609	SUPPLEMENTAL		

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS: T-MOBILE (THE COMPANY) WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/COLOCATE ONLY)
 - B. BATTERY CABINET (GROUND BUILD/COLOCATE ONLY)
 - C. ICE BRIDGE TRAIL WITH COVER (GROUND BUILD/COLOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MOORPOLES
 - E. GENERATORS
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PRES FOR MOUNTING
 - H. ANTENNAS (INSTALLED BY OTHERS)
 - I. TRANSMISSION LINE JUMPERS
 - J. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - K. TRANSMISSION LINE GROUND MTS
 - L. HANGERS
 - M. SWAYS
 - N. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS PERMANENT



AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 HARTFORD, CT 06120
 PHONE: (860) 484-0112
 COA: PEC0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF AMERICAN TOWER AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE CONTRACTOR AND ANY SUBSEQUENT CONTRACTOR OR OTHER PARTY THAT RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER(S) STRICTLY PROHIBITED. TITLE TO AMERICAN TOWER WHENEVER OR NOT THE PROJECT IS A SUBSEQUENT CONTRACTOR'S PROJECT, CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PROJECT PRIOR TO ANY PRIOR INSTANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
1/A	FOR CONSTRUCTION	CMB	08/18/20

ATC SITE NUMBER:
302466
 ATC SITE NAME:
WEST SERVICE ROAD
 T-MOBILE SITE NAME:
CT491/SSITE
HARTFORD_MP1
 SITE ADDRESS:
 302 WEST SERVICE ROAD
 HARTFORD, CT 06120

SEAL:



DATE DRAWN:	08/18/20
ATC JOB NO.:	13251344_C1
CUSTOMER ID.:	CT491/SSITE HARTFORD_MP1
CUSTOMER #:	CT11491B

GENERAL NOTES

SHEET NUMBER:	G-002
REVISION:	0

SITE PLAN NOTES:

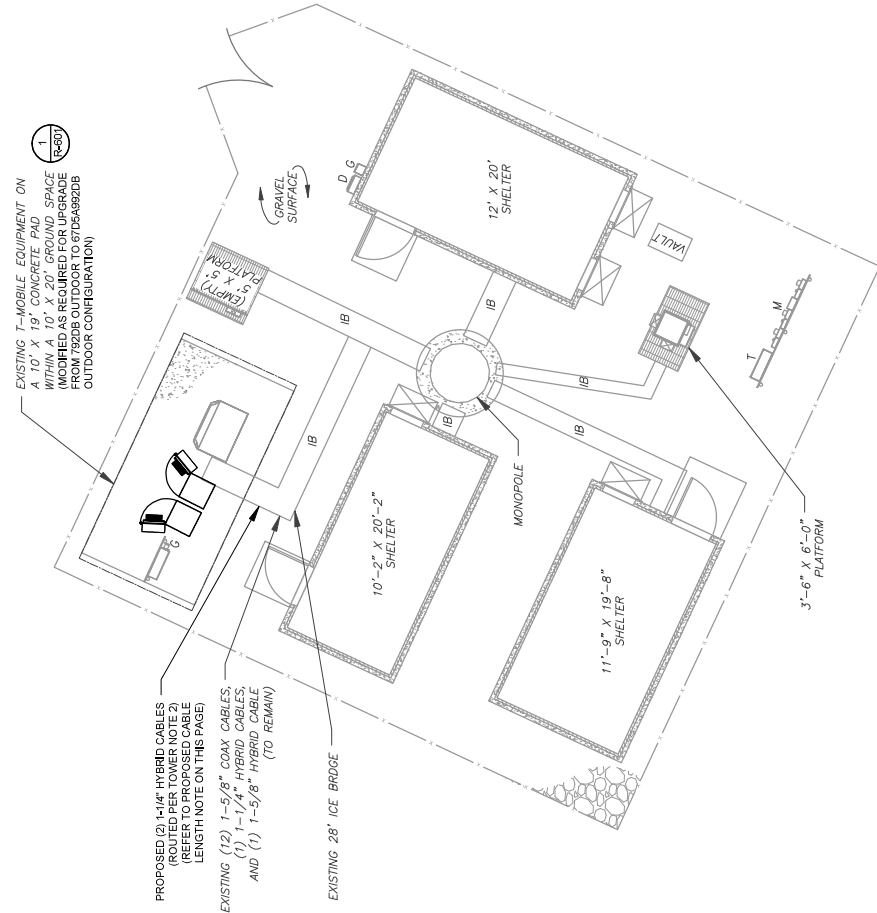
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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.

LEGEND

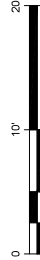
⊙	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
G	GENERATOR
GEN	GENERATOR RECEPTACLE
HH, V	HAND-HOLE VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELECOM
TRN	TRANSFORMER
—	CHAINLINK FENCE

PROPOSED CABLE LENGTH:

- ESTIMATED LENGTH OF PROPOSED CABLE IS 180'. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER TO THE CENTER OF 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 THE FOLLOWING: CONTRACTOR SHALL UTILIZE EXISTING CABLE SUPPORT STRUCTURES, WHERE PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. CONTRACTOR SHALL USE TO HORIZONTAL GR DIRECTIONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



1 DETAILED SITE PLAN



SCALE: 1"=10' (11X17)
1"=5' (22X34)

AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
ANN ARBOR, MI 48106
PHONE: (616) 484-0112
COX: PECJ001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF AMERICAN TOWER. NO PARTS AND NO REPRODUCTION THEREOF SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF AMERICAN TOWER. THE SPECIFIED WARRANTIES STRICTLY PROHIBITED. AMERICAN TOWER SHALL NOT BE LIABLE FOR ANY PROJECT, CONTRACTORS MUST VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE PRIOR TO ANY PAPER INSURANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
1/A	FOR CONSTRUCTION	CWB	08/18/20

ATC SITE NUMBER: **302466**
ATC SITE NAME: **WEST SERVICE ROAD**
FAVORABLE SITE NAME: **CT491/SSITE HARTFORD_MP1**
SITE ADDRESS: **30 WEST SERVICE ROAD, HARTFORD, CT 06120**



Authorized by "Patrick P. Barry"
04 Sep 2020 04:20:33

Mobileesign

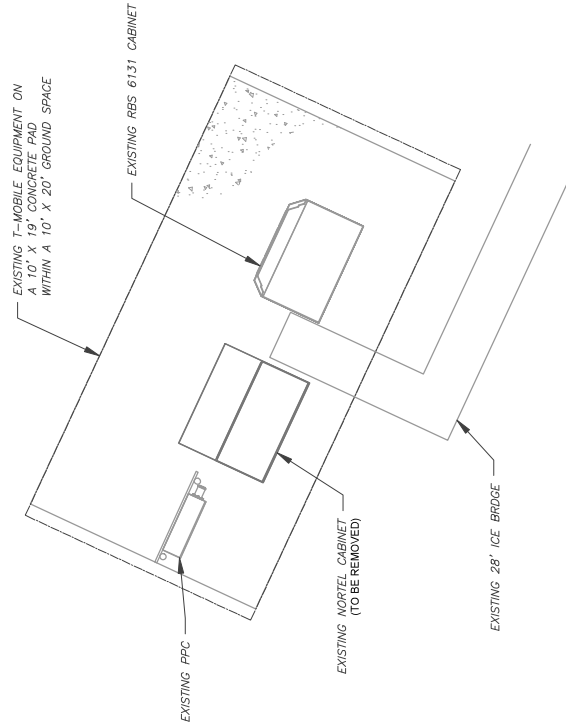
DATE DRAWN:	08/18/20
ATC JOB NO.:	13251344_01
CUSTOMER ID.:	CT491/SSITE HARTFORD_MP1
CUSTOMER #:	CT11491B

DETAILED SITE PLAN

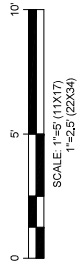
SHEET NUMBER:	C-101
REVISION:	0

SITE PLAN NOTES:

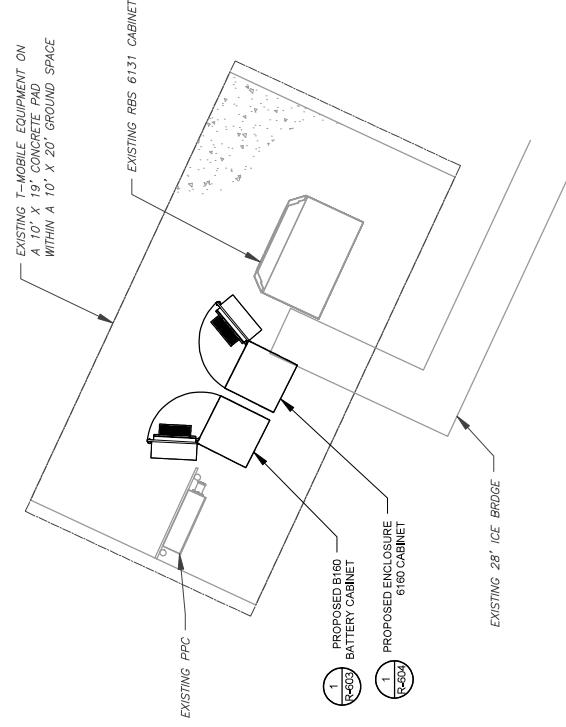
1. CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (600I CABS) EQUIPMENT.
2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
4. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.



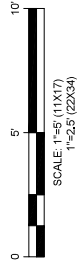
1 EXISTING GROUND EQUIPMENT LAYOUT



T-MOBILE CMA APPROVAL REQUIRED BEFORE INSTALLING CABINETS



2 PROPOSED GROUND EQUIPMENT LAYOUT



AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CANTON, MA 01921
PHONE: (617) 484-0112
COA: PECJ001563

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF AMERICAN TOWER AND ARE TO BE USED ONLY FOR THE PROJECT AND SITE IDENTIFIED HEREON. ANY REUSE, REPRODUCTION, OR PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE IDENTIFIED HEREON. ANY OTHER USE, REUSE, REPRODUCTION, OR PUBLICATION WITHOUT THE WRITTEN CONSENT OF AMERICAN TOWER OR OTHER PARTY TO WHOM SUCH RIGHTS RELATE TO AMERICAN TOWER OR OTHER PARTY IS STRICTLY PROHIBITED. TITLE TO THE SPECIFIED CARRIERS IS STRICTLY PROHIBITED. AMERICAN TOWER WILL BE PROVIDING CONSTRUCTION SERVICES FOR THIS PROJECT. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING CONDITIONS PRIOR TO THE PRIOR INSTANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
Δ	FOR CONSTRUCTION	CMB	08/18/20

ATC SITE NUMBER:
302466
ATC SITE NAME:
WEST SERVICE ROAD
T-MOBILE SITE NAME:
CT491/SSITE
HARTFORD_MP1
SITE ADDRESS:
30 WEST SERVICE ROAD,
HARTFORD, CT 06120



Authorized by "Patrick P. Barry"
04 Sep 2020 04:40:33
Mobileesign

DATE DRAWN:	08/18/20
ATC JOB NO.:	13251344_C1
CUSTOMER ID.:	CT491/SSITE:HARTFORD_MP1
CUSTOMER #:	CT11491B

DETAILED GROUND PLAN

SHEET NUMBER:	C-102
REVISION:	0



THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF AMERICAN TOWER CORPORATION AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND PROJECT ONLY. ANY REUSE OF THESE DRAWINGS OR OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO AMERICAN TOWER WHENEVER OR NOT THE PROJECT IS AMERICAN TOWER PROPERTY. AMERICAN TOWER SHALL BE PROVIDING CONSULTING SERVICES IN CONNECTION WITH THIS PROJECT. CONTRACTORS MUST VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE IBC AND ALL APPLICABLE CODES. THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
1/A	FOR CONSTRUCTION	CMB	08/18/20
2/A	ADDED MOUNT ANALYSIS	CMB	08/03/20
3/A			
4/A			

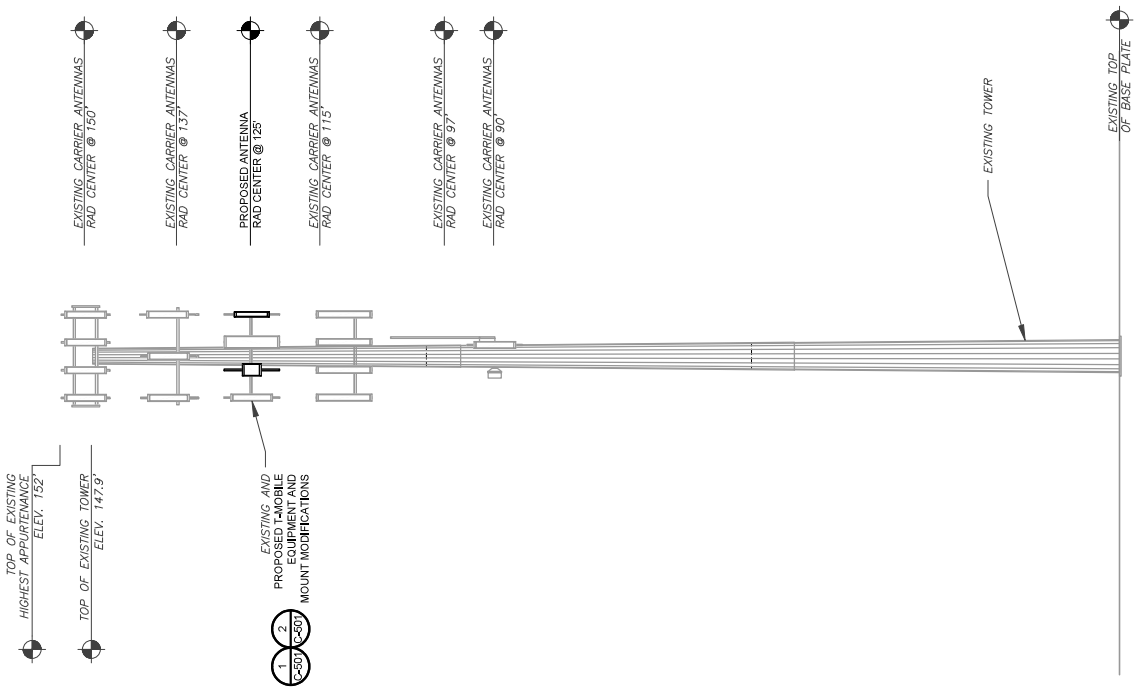
ATC SITE NUMBER:
302466
 ATC SITE NAME:
WEST SERVICE ROAD
 FAVORABLE SITE NAME:
CT491/SSITE
HARTFORD_MP1
 SITE ADDRESS:
 302 WEST SERVICE ROAD
 HARTFORD, CT 06130



Authorized by "Patrick P. Barry"
 04 Sep 2020 04:40:33
 DATE DRAWN: 08/18/20
 ATC JOB NO: 13251344_C1
 CUSTOMER ID: CT491/SSITE_HARTFORD_MP1
 CUSTOMER #: CT11491B

TOWER ELEVATION	
SHEET NUMBER:	C-201
REVISION:	1

PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED 08/18/20, THE EXISTING MOUNT CAN NOT BE MAINTAINED AS IS. THE PROPOSED MOUNT ANALYSIS SUPPORTS THE PROPOSED MOUNT MODIFICATION. THE MOUNT ANALYSIS MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



- TOWER NOTE**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE TO BE INSTALLED IN ACCORDANCE WITH AS EXISTING CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ACCURATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT OF THE MOUNT. CABLES SHALL NOT LEAVE THROUGH EXISTING PORTS OF THE MOUNT. USE THE MONOPOLE ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED CABLE TIES OR CABLE CLIPPING 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.)

1 TOWER ELEVATION
 SCALE: N.T.S.



THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS AND/OR THE ACCOMPANYING NOTES SHALL BE CONSIDERED TO BE THE ENTIRE AGREEMENT BETWEEN THE CLIENT AND THE ENGINEER. NO PART OF THESE DRAWINGS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY THE ENGINEER AND DOES NOT INCLUDE THE DESIGN OR CONSTRUCTION OF ANY STRUCTURE OR EQUIPMENT. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY THE ENGINEER AND DOES NOT INCLUDE THE DESIGN OR CONSTRUCTION OF ANY STRUCTURE OR EQUIPMENT. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY THE ENGINEER AND DOES NOT INCLUDE THE DESIGN OR CONSTRUCTION OF ANY STRUCTURE OR EQUIPMENT.

REV.	DESCRIPTION	BY	DATE
A	FOR CONSTRUCTION	CMB	08/18/20
A	ADDED MOUNT ANALYSIS	CMB	08/03/20

ATC SITE NUMBER: **302466**
 ATC SITE NAME: **WEST SERVICE ROAD**
 FACILITY SITE NAME: **CT491/SSITE HARTFORD_MP1**
 SITE ADDRESS: **302 WEST SERVICE ROAD, HARTFORD, CT 06183**

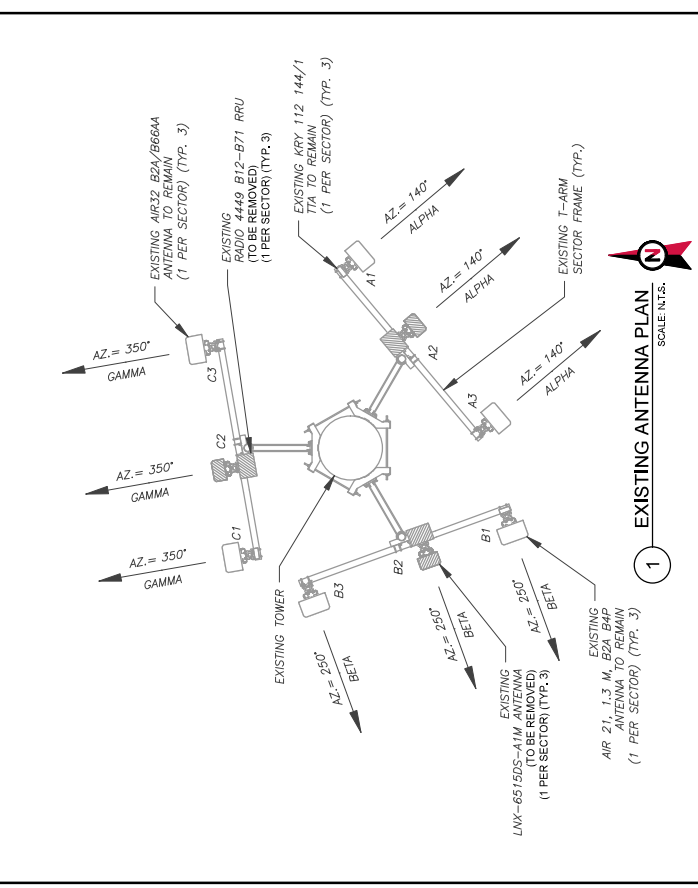
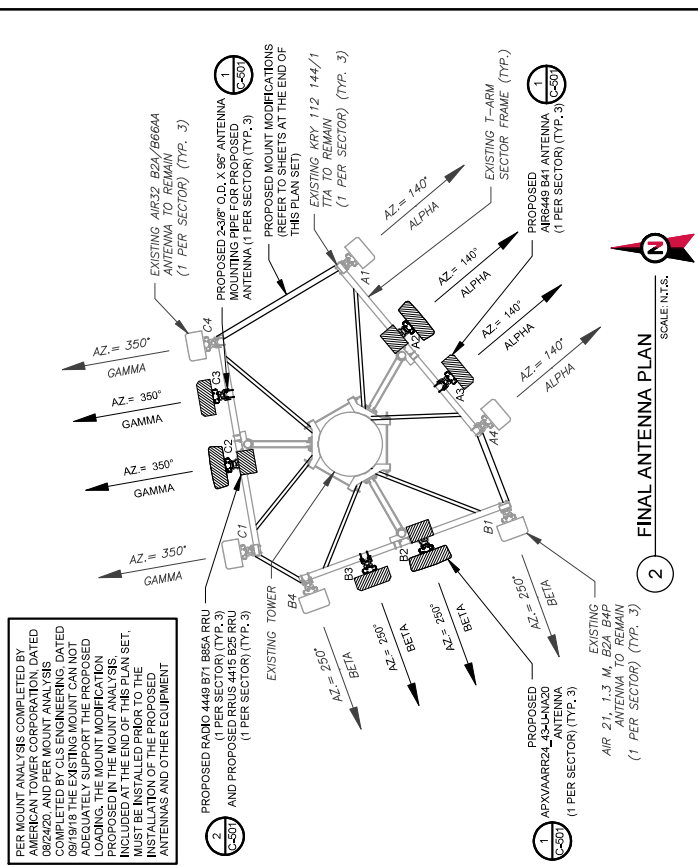


Authorized by "Patrick P. Barry"
 04 Sep 2020 04:40:34
Mobileesign

DATE DRAWN: 08/18/20
 ATC JOB NO: 13251344_C1
 CUSTOMER ID: CT491/SSITE HARTFORD_MP1
 CUSTOMER #: CT11491B

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER: **C-401**
 REVISION: **1**



ANTENNA SUMMARY				NON ANTENNA SUMMARY						
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MCH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	125°	140°	A1	AIR 21, 1.3M, B2A B4P	61900/02100	0°	RWV	KRY 112 144/1	RWV	
			A2	APXVAARR24_43-LNA20	-	0°/4°	ADD	RADIO 4449 B71 B85A	ADD	
			A3	AIR32, B2A/B66AA	L2100/L1900	-	0°/4°	ADD	RRUS 4415 B25	ADD
			A4	AIR32, B2A/B66AA	L2100/L1900	-	0°/4°	RWV	-	-
BETA	125°	250°	B1	AIR 21, 1.3M, B2A B4P	61900/02100	0°	RWV	KRY 112 144/1	RWV	
			B2	APXVAARR24_43-LNA20	-	0°/4°	ADD	RADIO 4449 B71 B85A	ADD	
			B3	AIR648 B41	L2500N2500	-	0°	ADD	RRUS 4415 B25	ADD
			B4	AIR32, B2A/B66AA	L2100/L1900	-	0°/4°	RWV	-	-
GAMMA	125°	350°	C1	AIR 21, 1.3M, B2A B4P	61900/02100	0°	RWV	KRY 112 144/1	RWV	
			C2	APXVAARR24_43-LNA20	-	0°/4°	ADD	RADIO 4449 B71 B85A	ADD	
			C3	AIR648 B41	L2500N2500	-	0°	ADD	RRUS 4415 B25	ADD
			C4	AIR32, B2A/B66AA	L2100/L1900	-	0°/4°	RWV	-	-

NOTES
 1. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSV TO CAP ALL UNUSED PORTS.
 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT NOW IMPIDE TOWER CLIMBING PEGS.
STATUS ABBREVIATIONS
 RWV: TO BE REMOVED
 RMW: TO REMAIN
 REL: TO BE RELOCATED
 ADD: TO BE ADDED
CABLE LENGTHS FOR JUMPERS
 JUNCTION BOX TO RRU: 15'
 RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE			
EXISTING FIBER DISTRIBUTION/OVP BOX		FINAL CABELING SUMMARY	
MODEL NUMBER	STATUS	COAX	STATUS
-	-	(12) 1-5/8"	1-1/4"
-	-	-	1-5/8"
-	-	-	(2) 1-1/4"

EQUIPMENT SCHEDULES			
EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABELING SUMMARY	
MODEL NUMBER	STATUS	COAX	STATUS
-	-	(12) 1-5/8"	1-1/4"
-	-	-	1-5/8"
-	-	-	1-5/8"

AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 HARTFORD, CT 06182
 PHONE: (860) 484-0112
 COA: PECJ001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF AMERICAN TOWER AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE. ANY REPRODUCTION OR TRANSMISSION OF THESE DRAWINGS OR OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO AMERICAN TOWER WHENEVER OR NOT THE PROJECT IS COMPLETED SHALL REMAIN WITH AMERICAN TOWER. THIS WILL BE PROMINENTLY CONSTRUCTED IN EVERY INSTRUMENT OF SERVICE. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND PRIOR INSTANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
1/A	FOR CONSTRUCTION	CMB	08/18/20

ATC SITE NUMBER:
302466
 ATC SITE NAME:
WEST SERVICE ROAD
 MOBILE SITE NAME:
CT491/SSITE
HARTFORD_MP1
 SITE ADDRESS:
 30 WEST SERVICE RD.
 HARTFORD, CT 06120

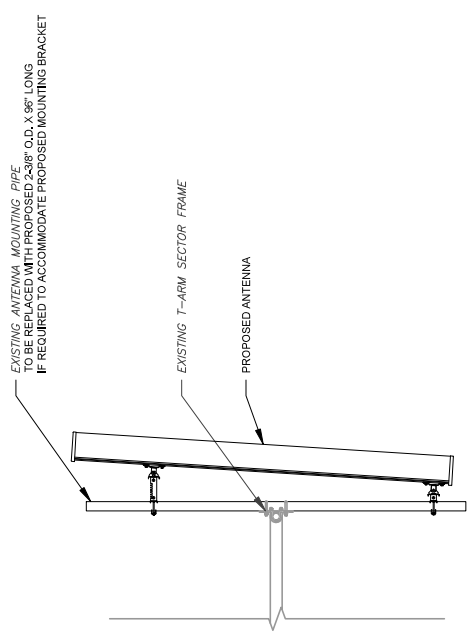


Authorized by "Patrick P. Barry"
 04 Sep 2020 04:40:34
MobileDesign

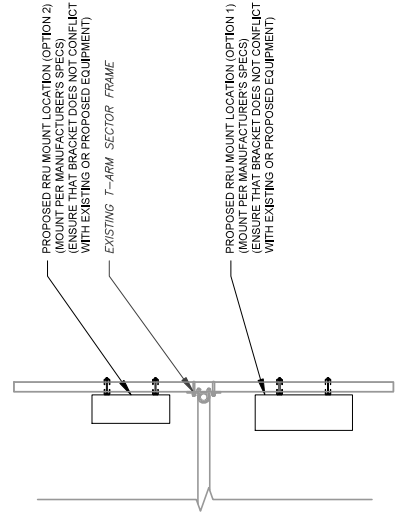
DATE DRAWN:	08/18/20
ATC JOB NO.:	13251344_C1
CUSTOMER ID.:	CT491/SSITE HARTFORD_MP1
CUSTOMER #:	CT11491B

CONSTRUCTION DETAILS

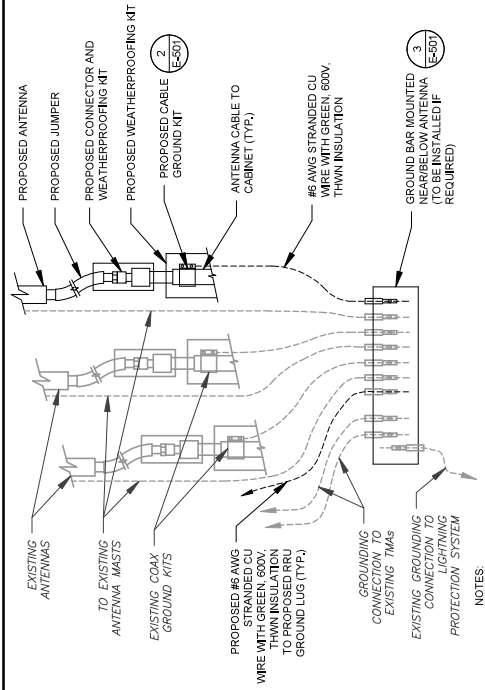
SHEET NUMBER:	C-501
REVISION:	0



1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.



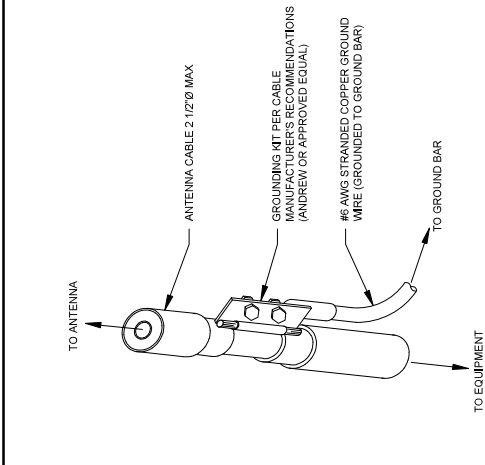
2 PROPOSED RRU MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.



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 T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION, WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

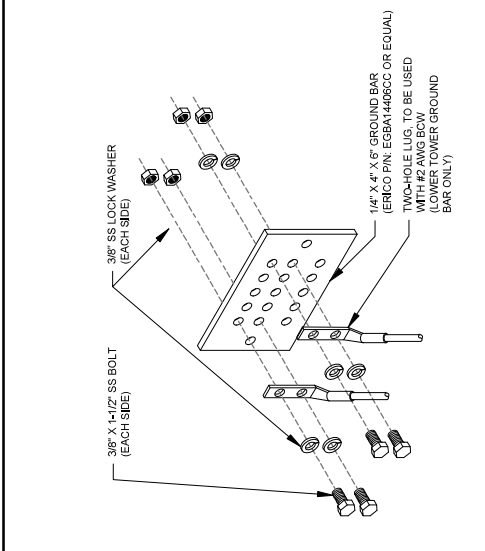
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- NUMBER 22(2)S AND INSTALL TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
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.

AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
HARTFORD, CT 06110
PHONE: (860) 484-0112
COX: PEC0001563

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF AMERICAN TOWER AND NO REPRODUCTION OR PUBLICATION SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF AMERICAN TOWER OR OTHER PARTY THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER(S) STRICTLY PROHIBITED. TITLE TO PROJECT, CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND PRIOR INSURANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
A	FOR CONSTRUCTION	CMB	08/18/20

ATC SITE NUMBER:
302466

ATC SITE NAME:
WEST SERVICE ROAD

FABRILE SITE NAME:
CT491/SSITE HARTFORD_MP1

SITE ADDRESS:
30 WEST SERVICE RD.
HARTFORD, CT 06120



Authorized by "Patrick P. Barry"
04 Sep 2020 04:40:34
MobileDesign

DATE DRAWN:	08/18/20
ATC JOB NO.:	13251344_01
CUSTOMER ID.:	CT491/SSITE HARTFORD_MP1
CUSTOMER #:	CT11491B

GROUNDING DETAILS

SHEET NUMBER:	E-501
REVISION:	0

ELECTRICAL NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, AND EQUIPMENT. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
- ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW.

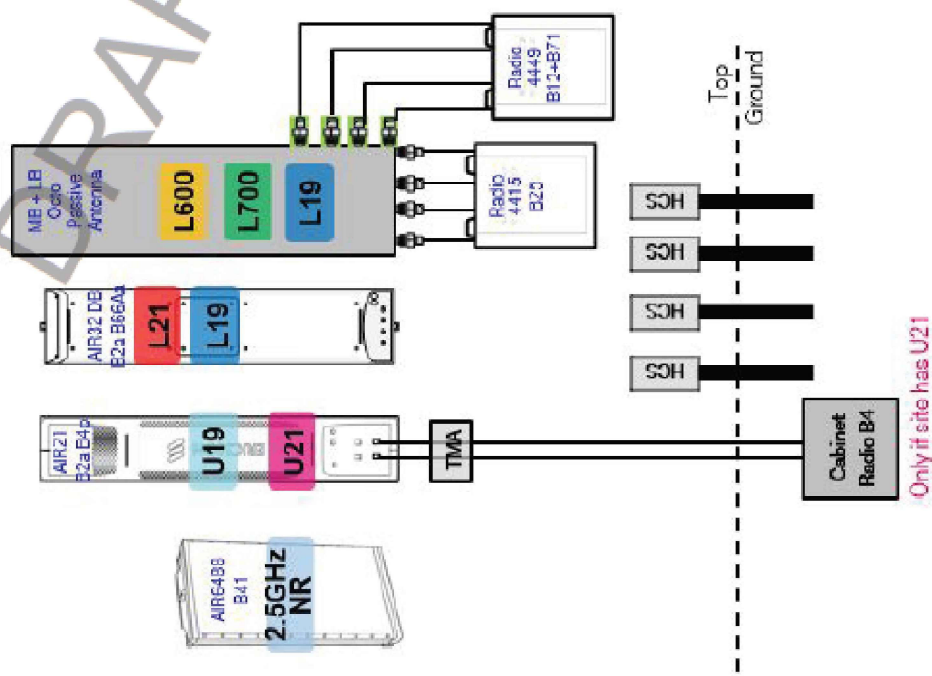
OCSP SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
80A/2P	2#5 AWG	#6 AWG	1-1/4"
100/2P	2#2 AWG	#6 AWG	1-1/4"
125A/2P	2#1 AWG	#6 AWG	1-1/2"
150A/2P	2#1/0 AWG	#6 AWG	1-1/2"

67D5492D8_3xAIR-1-10P.JPG

Existing RAN Equipment	
Template: 75208 Outdoor	
Enclosure	1
Enclosure Type	(R55 613)
Baseband	(DUW30 (x 2)) (DU620) (BB 6630) (L700) (L3100) (L1900)
Hybrid Cable System	(Eriasson 5x18 HCS "Select Length") (Eriasson 6x12 HCS "Select Length & AWG")
Radio	(RU22 (x 5))

Proposed RAN Equipment	
Template: 67D5492D8 Outdoor	
Enclosure	2
Enclosure Type	(Ancillary Equipment, Eriasson)
Baseband	(DUW30) (DUW30) (DU620) (UC100) (S1900) (BB 6630) (BB 6630) (L700) (L3100) (L300) (L1900)
Hybrid Cable System	(Eriasson 5x18 HCS "Select Length") (Eriasson 6x12 HCS "Select Length & AWG") (Eriasson 6x12 HCS "Select AWG & Length")
Radio	(RU22 (x 6)) (U2100)

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE



2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

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

SUPPLEMENTAL

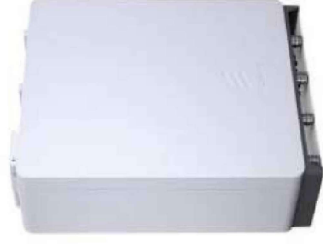
SHEET NUMBER: R-601
REVISION: 0

AIR6449 B41

Frequency Range	LTE TDD B41: 2496 – 2690 MHz
Instantaneous BW	DL 194 MHz
Antenna Ports	64T64R
Technology	NR, LTE and NR+LTE MIMO
Antenna Elements	192
Output RF Power	300 W (=64 TRX x 4.6875W)
Data Ports	4 x 25Gb/s CPRI
5G NR Support	YES
DC Feed	-48V DC power connector
Cooling	Passive cooling (vs. active cooling on AIR32 DB)
Dimensions (H x W x D)	33.1" x 20.6" x 8.6" inches (=841 x 524 x 217 mm)
Weight	104 lbs (=47 kg)
Electrical downtilt	-3 to 11 degrees
Horizontal beamwidth	+/- 65 degrees
HW/SW Availability	July 2020
Material SAP #	341105 – AIR 6449 B41



RRUS 4415 B25



- > B25
 - TX = 1930 – 1985 MHz
 - RX = 1850 – 1915 MHz
 - > CPRI 2 ports x 2.54 Gb/s/10.1 Gbps. Install 2 SFPs and connect 2 fiber pair to the RRUS 4415 during initial install.
 - > Only use Ericsson supplied and approved SFPs RDH10265/26
 - Example SFPs: RDH10265 for CPRI 1.6m to 16m
 - Example SFPs: RDH10265 for CPRI 1.6m to 16m
 - > 2 external alarm inputs
 - > Max wind load @ 50msec = 26CN
 - > Breaker size = 25A, DC Power Consumption = 670 W (for dimensioning)
 - > 200mm horizontal separation required for side by side mounting
 - > 200mm separation required from antenna backplane to radio
 - > 400mm vertical outdoor/indoor separation required between 2 radios
 - > 500mm vertical separation below antenna
 - > Min. Max DC cable size from squic to radio = 10,8 AWG
 - Adapter is required for 2-wire connection
 - Shielded DC cable is required
 - > Ground cable size = 2AWG
 - > Dimensions (incl. handles, feet and sunshield, w/ fan unit)
 - Height: 16.5' (420 mm)
 - Width: 13.4' (342 mm)
 - Depth: 5.9" (149 mm)
 - > Weight, excl. mounting hardware = 46 lbs (21 kg)

SUPPLEMENTAL

SHEET NUMBER:

R-602

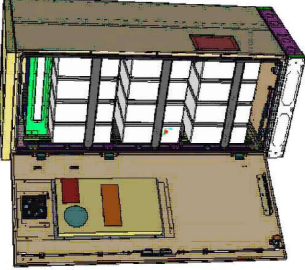
REVISION:

0

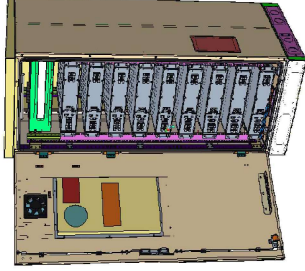
Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

Enclosure B160

- Capacity
 - VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah
 - Li-Ion: 24U 19" / 23"
 - Sodium-Nickel: 3x FIAMM
- Electrical specification
 - DC Output: -48VDC/200A
 - Battery breakers: 2x 125/2p
 - Alarms: Door open, Climate failure, MCB Connection
- Mechanical specification
 - Weight: 134kg
 - Dimensions: 63 x 26 x 26 in. (incl. Base frame)
 - Base frame height: 6 in.
 - Material: Galvanized steel (1.180g/m²)
 - Color: Powder paint: NCS 2002-B
 - Door: Front access
 - Locking type: Pad lock / cylinder

- Environmental specification
 - Ingress protection: VRLA/Sodium IP44
 - Relative humidity: Li-Ion IP35
 - Climate system: 15-100%
 - Air Conditioner: DC
 - Fan type: 500W @.35/L35
 - Cooling capacity: Convection cooling
 - Emergency fan

SUPPLEMENTAL

SHEET NUMBER:
R-603

REVISION:
0



Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3-PF vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost-efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP35 compliance and a sealed Heat Exchanger (HEX) climate system, the Enclosure 6160 ensures optimal environmental protection for the active equipment, enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31.5kW of power in total and provides 24kW of 48V DC power for both internal and external consumers.

The equipment space allows 18U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with EMM - allowing for advanced remote monitoring and control such as fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3-PF O&M systems.

Preliminary technical specification for Enclosure 6160 AC

CAPACITY	18U (19" rack)
Rack space user equipment	Power and CPRI support for multi-standard remote radios (RRU or AIR)
Hardware capabilities	ERS Baseband and Transport units Li-Ion batteries 3-PF equipment Additional power feed available as option
MECHANICAL SPECIFICATION	
Weight	145 kg (excluding active equipment) 320 lbs (excluding active equipment)
Dimension (H x W x D)	1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	150 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Power paint NCS 2002-B
Door	Front access
Rack type	19" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder
POWER SYSTEM	
Input voltage	3P+NPE: 346/200-415/240 VAC 2P+NPE: 208/120-220/127 VAC 1P+NPE: 200-250 VAC
Input power	<33kW
Output load (-48VDC)	24kW
Total capacity (-48VDC)	31.5kW
AC SPD	Class 2/Type 2
DC SPD	Class 2/Type 2
PSU Slots	9x
Service outlet	Optional
Priority load	8x Circuit Breaker
LLVD 1	6x Circuit Breaker
LLVD 2	6x Circuit Breaker
CB ratings	3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A
Battery Interface	2x Circuit Breaker
Battery Circuit Breaker rating	125A-2pol (200A)
PSU capacity	3500W



SUPPLEMENTAL

SHEET NUMBER: **R-604**
REVISION: **0**

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



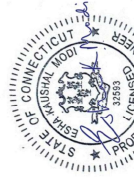
Antenna Mount Analysis Report

ATC Site Name : West Service Road, CT
 ATC Site Number : 302466
 Engineering Number : 13251344_C8_08
 Mount Elevation : 124 ft
 Carrier : T-Mobile
 Carrier Site Name : CT491/SSite Hartford_MP1
 Carrier Site Number : CT11491B
 Site Location : 305 W. Service Rd.
 Hartford, CT 06120-0001
 41.79953889 , -72.65669722
 County : Hartford
 Date : August 24, 2020
 Max Usage : 60%
 Result : Contingent Pass

Prepared By:
Max Carter
Structural Engineer

Max Carter

Reviewed By:



Authorized by "EOR"
24 Aug 2020 09:05:57

COA: PEC.0001553

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for T-Mobile at 124 ft.

Supporting Documents

Radio Frequency Data Sheet	RFDS ID #CT11491B, dated May 11, 2020
Reference Photos	Site photos from 2020
Previous Mount Analysis*	CLS Engineering Project #41124-12605178-01-MA, dated September 19, 2018

*Modifications proposed in previous mount analysis could not be verified as installed via the most recently available site photos, however they were considered in this analysis. Should these modifications not be installed as specified, ATC Engineering should be contacted, and the mount analysis revised to reflect the as-build condition(s).

Analysis

This antenna mount was analyzed using American Tower Corporation's Mount Analysis Program and RISA-3D

Basic Wind Speed:	117 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1 1/2" radial ice concurrent
Codes:	ANSI/TIA-222-H
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Spectral Length (L):	0 ft
Spectral Response:	Ss = 0.18, S1 = 0.06
Site Class:	D - Stiff Soil
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

Conclusion

Based on the analysis results, the antenna mount does not meet the requirements per the applicable codes listed above. The mount can support the equipment as described in this report after the below listed modifications are completed:

- Install Site Pro 1 P296 antenna mounting pipe – 2-3/8" x 96" (Mount Pipe C, G and K) with Site Pro 1 SCX3-K crossover plate kits.
- Replace existing mounting pipe B with Site Pro 1 P30120 antenna mounting pipe – 2-7/8" x 120" (Mount Pipe B, F, and J) with Site Pro 1 SCX3-K crossover plate kits.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

SUPPLEMENTAL

SHEET NUMBER:
R-605

REVISION:
0

Mount Analysis of Existing T-Arms for American Tower on behalf of T-Mobile
302466 - West Service Road, CT
Project #: 12605178
 T-Mobile Site ID: CT11491B
 Program: L700

CLS Engineering PLLC Project #41124-12605178-01-MA
 September 19, 2018

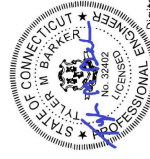
MONUMENT DESCRIPTION	Existing T-Arms at 125 ft. AGL
ANTENNA ELEVATION	Nominal Rad. Elevation of 125 ft. AGL
SITE DESCRIPTION	147.9 ft. Monopole
SITE ADDRESS	305 W. Service Rd., Hartford, CT 06120-0001, Hartford County
GPS COORDINATES	41:79953889, -72.65669722
ANALYSIS STANDARD	2012 IBC / 2016 Connecticut State Building Code / TIA-222-G
LOADING CRITERIA	125 mph, V_{ult} / 97 mph, V_{max} (3-Second Gust) w/o ice & 50 mph (3-Second Gust) w/ 1" ice

■ ANALYSIS RESULT: **Pass (Conditional)**

MEMBER USAGE	97%	Pass
--------------	-----	------

Modifications are proposed to bring mounts into compliance; see conclusion for details.

Prepared by:
Bhishan PoudeI, E.I.
 Reviewed and Approved by:
Tyler M. Barker, P.E.



Digitally signed
 by Tyler M.
 Barker
 Date: 2018.09.20
 08:51:20 -0400

Mount Analysis for American Tower on behalf of T-Mobile
 302466 - West Service Road, CT
 CLS Engineering PLLC Project #41124-12605178-01-MA
 September 19, 2018

■ RESULTS SUMMARY

Existing Mount Usages:

COMPONENT	PEAK USAGE	RESULT
Collar Reactions	141%	Fail
Mount Pipes	118%	Fail
Stand-Off Horizontals	106%	Fail
Face Horizontals	74%	Pass

Mount Usage after Modifications:

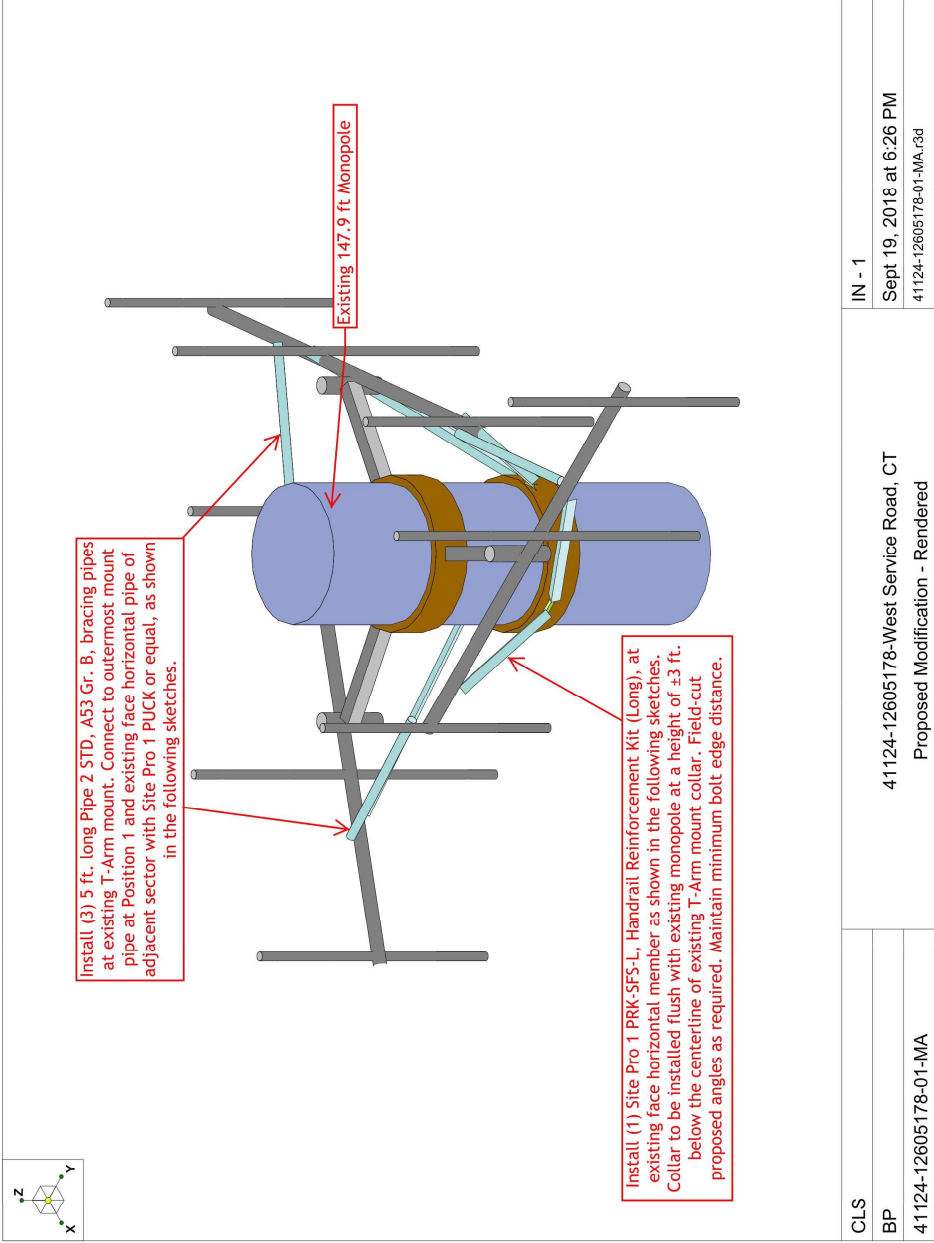
COMPONENT	PEAK USAGE	RESULT
Mount Pipes	97%	Pass
Collar Reactions	70%	Pass
Face Horizontals	51%	Pass
Stand-Off Horizontals	41%	Pass
Bracing Members	20%	Pass

■ CONCLUSION AND RECOMMENDATIONS

According to our structural analysis, the mounts have been found to **CONDITIONALLY PASS**. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the following scope is executed:

- Remove existing pipe and kicker angles assembly connected to outermost mount pipes at each sector.
- Install (1) Site Pro 1 PRK-SFS-L Handrail Reinforcement Kit (Long), at existing face horizontal member as shown in the following sketches. Collar to be installed flush with existing monopole at a height of 43 ft. below the centerline of existing T-Arm mount collar.
- Install (3) 5 ft. long Pipe 2 STD, A53 Gr. B, bracing pipes at existing T-Arm mount. Connect to outermost mount pipe at Position 1 and existing face horizontal pipe of adjacent sector with Site Pro 1 PUCK or equal, as shown in the following sketches.

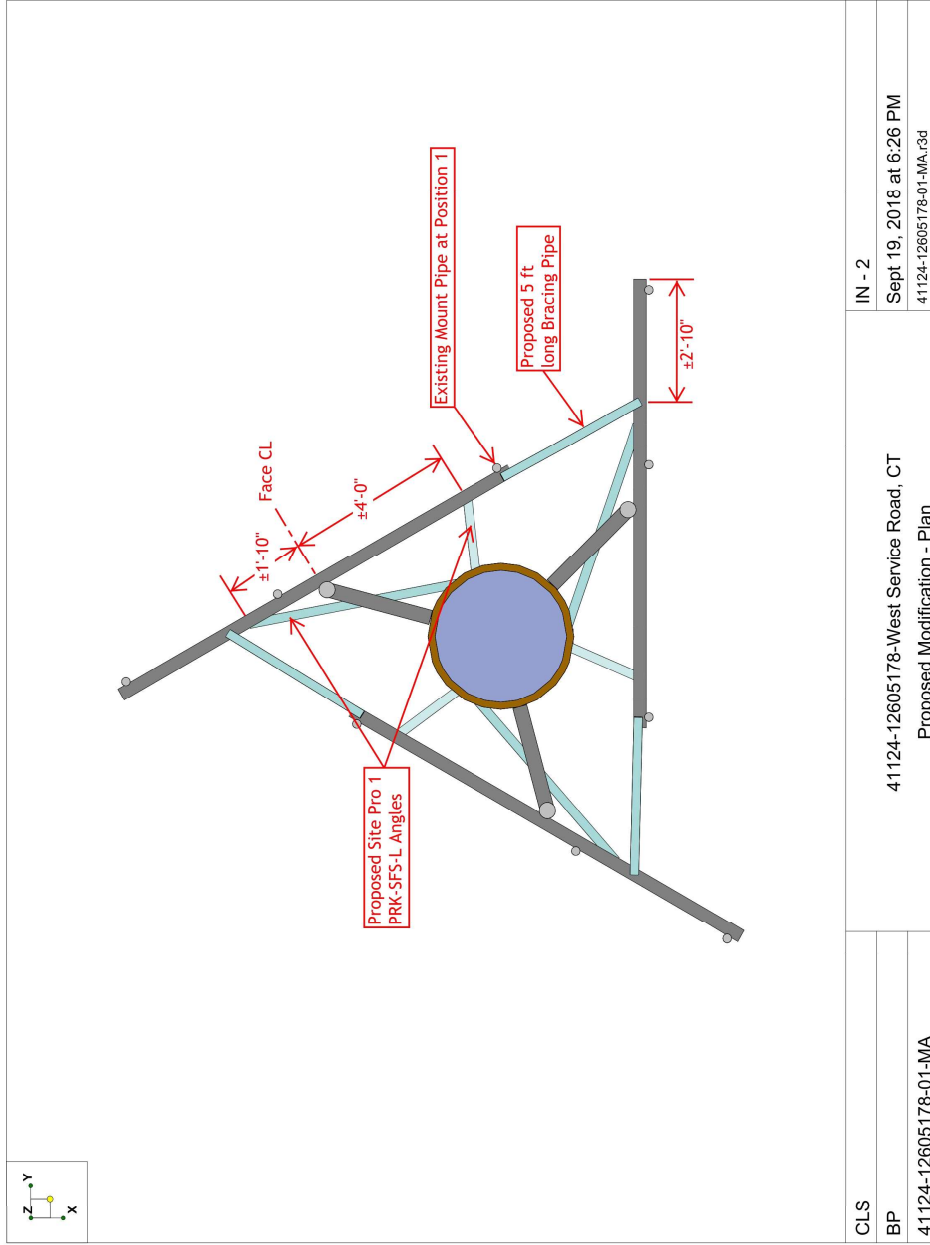
See following sketches and Site Pro 1 assembly drawings for additional details.



CLS	IN - 1
BP	Sept 19, 2018 at 6:26 PM
41124-12605178-01-MA	41124-12605178-01-MA.r3d
41124-12605178-West Service Road, CT	
Proposed Modification - Rendered	

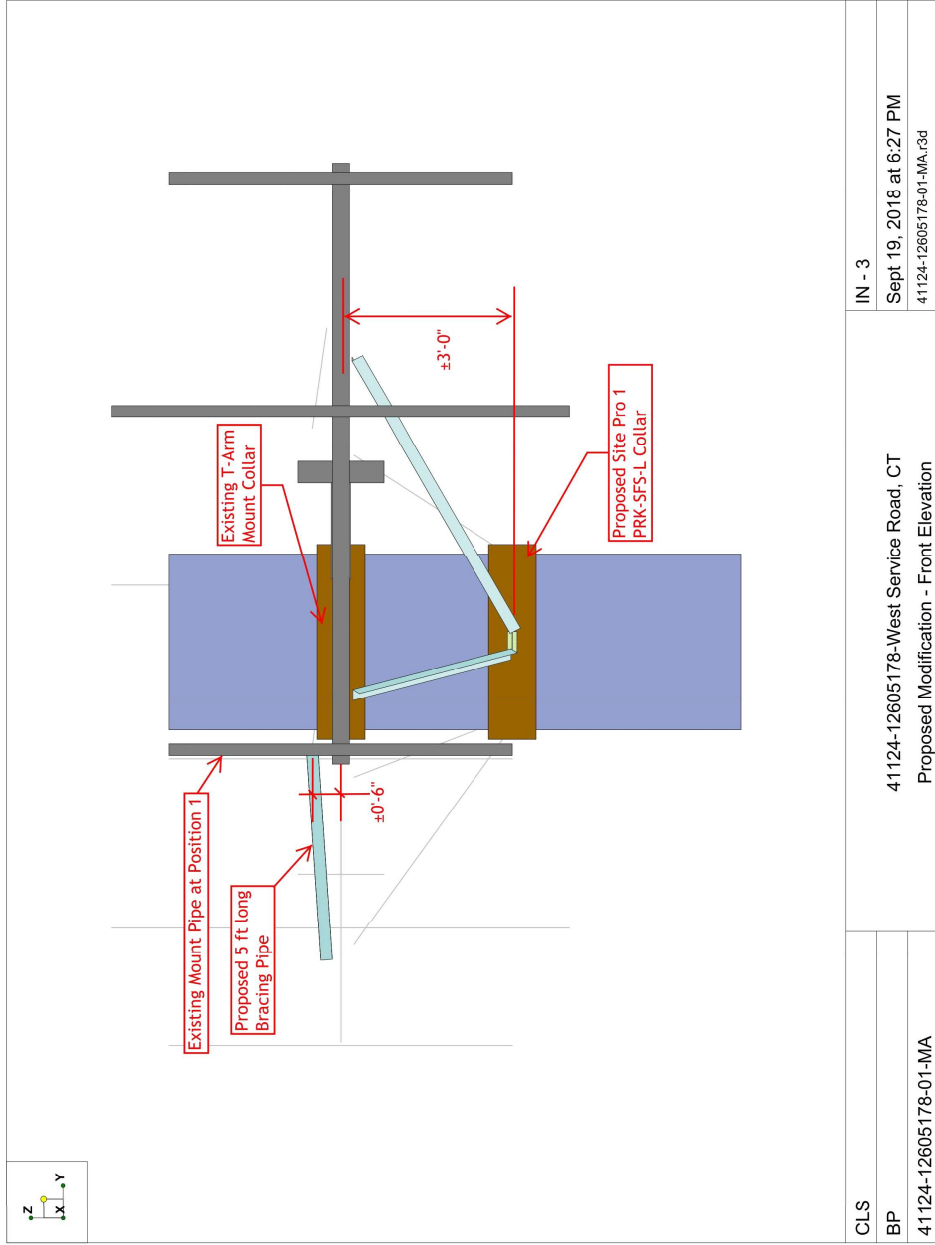
SUPPLEMENTAL

SHEET NUMBER:	R-607
REVISION:	0



SUPPLEMENTAL

SHEET NUMBER: R-608
REVISION: 0



SUPPLEMENTAL

SHEET NUMBER:	R-609
REVISION:	0