



January 31, 2023

Melanie A. Bachman  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: Notice of Exempt Modification – AT&T Mobility Site 13682835  
EM-CING-138-200909; EM-CING-138-210805; EM-CING-138-190403  
AT&T Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614  
AKA Ruth Road

Dear Ms. Bachman,

Enclosed please find three (3) sets of Exempt Modification application packages for the above referenced site and check number 00040848 in the amount of Six Hundred Twenty Five Dollars (\$625.00). The application package consists of The Exempt Modification Letter and Letter of Authorization from the tower owner; and:

- Exhibit 1 – Property Card and GIS
- Exhibit 2 – Construction Drawings
- Exhibit 3 – Structural Analysis Report
- Exhibit 4 – Antenna Mount Analysis Report
- Exhibit 5 – EME Study Report
- Exhibit 6 – Prior CSC Approvals
- Exhibit 7 – Four (4) Notice Confirmations

A pdf copy of these same documents has been emailed to your office this day.

As always, if you have any questions or comments, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jack Andrews', is written over a circular stamp or seal.

Jack Andrews  
Zoning Manager, Centerline Communications  
10130 Donleigh Drive  
Columbia, MD 21046  
443-677-0144



January 25, 2023

Melanie A. Bachman  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: Notice of Exempt Modification – AT&T Mobility Site 13682835  
EM-CING-138-200909; EM-CING-138-210805; EM-CING-138-190403  
AT&T Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614  
AKA Ruth Road

Dear Ms. Bachman,

AT&T Mobility (“AT&T”) is proposing to modify a wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625). The property is also identified as being on “Ruth Street” on the Stratford GIS webpage. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stonybrook Management LLC.

AT&T proposes to remove nine (9) existing antennas and one (1) squid and replace them with twelve (12) new panel antennas with four (4) RRHs and two (2) squids at the existing centerline of one hundred seventeen (117) feet on the existing one hundred nineteen (119) foot tall monopole, as more particularly detailed on the enclosed Construction Drawings dated 1/14/2022. The proposal involves minimal groundwork: installing a Fronthaul Gateway and one (1) IDLE ECEDE.

The tower was approved by the Connecticut Siting Council in Docket 385 dated February 25, 2010, and modified July 19, 2019. Most recently, on October 26, 2020, the Siting Council approved EM-CING-138-200909 - AT&T Mobility notice of intent to modify the existing telecommunications facility with no change in the antenna centerline elevation. An AT&T facility was approved by the Council in EM-CING-138-190403.

Please accept this application as notification in accordance with R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72 (b)(2). In accordance with R.C.S.A §16-50j-73, a copy of this letter is being sent to the following individuals Laura R. Hoydick, the Mayor of the Town of Stratford; Daniel Brennan, the Zoning Enforcement Officer of the Town of Stratford; Blake Paynter the American Tower Corporation Project Manager as Tower Owner; and Stonybrook Management LLC as ground owner.

The applicant’s proposal falls squarely within those activities explicitly provided for in R.C.S.A. § § 16-50j-72(b)(2):



1. The proposed modifications will NOT result in an increase in the height of the existing structure. AT&T's antennas and associated lines will be installed at the existing mount height of on the tower; please see page C-201 of the drawings. The new antennas will not exceed the height of the existing antennas.
2. The proposed modifications will NOT require an extension of the site boundary.
3. The proposed modifications will NOT increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will NOT increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.
5. The proposed modifications will NOT cause an ineligibile change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis dated January 20, 2023, prepared by American Tower Corporation, and enclosed herewith.

For the foregoing reasons, AT&T respectfully requests that the Council approve this request for the exempt modifications under R.C.S.A. § 16-50j-72(b)(2), for this tower located at 23 Stonybrook Road, Stratford, CT 06614.

If you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jack Andrews', is written over a circular blue stamp or watermark.

Jack Andrews  
Zoning Manager, Centerline Communications  
10130 Donleigh Drive  
Columbia, MD 21046  
443-677-0144

Enclosures:           Exhibit 1 – Property Card and GIS  
                              Exhibit 2 – Construction Drawings  
                              Exhibit 3 – Structural Analysis Report  
                              Exhibit 4 – Antenna Mount Analysis Report  
                              Exhibit 5 – EME Study Report  
                              Exhibit 6 – Prior CSC Approvals  
                              Exhibit 7 – Four (4) Notice Confirmations

cc:           American Tower Corporation - Tower Operator/Owner  
              Eversource (F/K/A Conn Power & Light) - Property Owner  
              Laura R. Hoydick - the Mayor of Stratford  
              Daniel Brennan – Stratford Zoning Enforcement Officer



**AMERICAN TOWER®**  
CORPORATION  
**LETTER OF AUTHORIZATION**

**CENTERLINE COMMUNICATIONS LLC/ AT&T MOBILITY**

I, Margaret Robinson, Vice President, US Tower Legal Division on behalf of American Tower\*, owner/operator of the tower facility located at the address identified below (the "Tower Facilities"), do hereby authorize AT&T MOBILITY, CENTERLINE COMMUNICATIONS LLC, its successors and assigns, to act as American Tower's non-exclusive agent for the purpose of filing and securing any zoning, land-use, building permit and/or electrical permit application(s) and approvals of the applicable jurisdiction for and to conduct the construction of the installation of antennas and related telecommunications equipment on the Tower Facility located at the above address. This installation shall not affect adjoining lands and will occur only within the area leased by American Tower.

American Tower understands that the application may be denied, modified or approved with conditions. The above authorization is limited to the acceptance by American Tower of conditions related to American Tower's installation. Any such conditions of approval or modifications will not be effective unless approved in writing by American Tower.

The above authorization does not permit AT&T MOBILITY, CENTERLINE COMMUNICATIONS LLC to modify or alter any existing permit(s) and/or zoning or land-use conditions or impose any additional conditions unrelated to American Tower's installation of telecommunications equipment without the prior written approval of American Tower.

\*American Tower includes all affiliates and subsidiaries of American Tower Corporation.


ATC Asset #	Site Name	Project Number	Site Address
283420	STONEBROOK RD CT	13682835	23 Stonybrook Road, Stratford, Connecticut
243036	WEST HAVEN & RT 162 CT	13682841	668 Jones Hill Road, West Haven, Connecticut
302479	Rkhl - Rocky Hill	13683394	699 West Street, Rocky Hill, Connecticut
302537	Middletown CT 3	13747862	47 Inwood Road, Rocky Hill, Connecticut
302535	Milford CT 2	13748383	185 Research Drive, Milford, Connecticut
302473	E H F R - Prestige Park	13748397	310 Prestige Park Road, East Hartford, Connecticut
302505	Wshn - West Haven	13748405	204 Burwell Street, West Haven, Connecticut
302489	Enfd - Enfield	13753208	77 Town Farm Road, Enfield, Connecticut
302524	Beacon Falls	13753210	664 Rimmon Hill Road, Seymour, Connecticut
310968	WSPT-WESTPORT REBUILD CT	13753216	180A Bayberry Lane, Westport, Connecticut
302526	Naugatuck (telephone Pole)	13753218	585 South Main St. (soc. Club), Naugatuck, Connecticut
310972	WATERFORD REBUILD CT	13753547	15 Miner Lane, Waterford, Connecticut
302538	Parsonage Hill Aka Wallin	13753549	922 Northrop Road, Wallingford, Connecticut
370624	Mankes Silo	13754283	1338 Highland Ave, Cheshire, Connecticut



**AMERICAN TOWER®**  
CORPORATION

88017	SHELTON-TRUMBULL	13755484	14 OXFORD DRIVE/BOOTH HILL RD, Shelton, Connecticut
414240	Byram Park CT	13755490	48 RITCH AVENUE WEST, Greenwich, Connecticut
283423	NAUGATUCK CT	13755758	880 Andrew Mountain Road, Naugatuck, Connecticut
302480	Woodbridge CT 1	13756843	77 Pease Road, Woodbridge, Connecticut
411183	WATERFORD CT	13756866	53 Dayton Rd. Waterford, Connecticut
302540	Madison CT 6	13757740	8 Old 79, Madison, Connecticut
411259	CT Collinsville CAC 802816 CT	13757764	650 Albany Turnpike, Collinsville, Connecticut
411256	CANTON CT	13757774	14 CANTON SPRINGS ROAD, Canton, Connecticut
302493	Nrwc - Norwich	13757776	225 Rogers Road, Norwich, Connecticut
302476	Wtbr - Waterbury	13757794	352 Garden Circle, Waterbury, Connecticut
302475	Sttn - Southington	13757796	80 Shuttle Meadow Road, Southington, Connecticut
302494	Hddm - Haddam	13757798	139 Morris Hubbard Rd, Higganum, Connecticut
283419	PINE ORCHARD BRANFORD CT	13757800	123 Pine Orchard Road, Branford, Connecticut
302482	North Havent CT 1	13757802	15 Dewight Street, North Haven, Connecticut
302485	Mdfd - Middlefield	13757806	134 Kikapoo Road, Middlefield, Connecticut
302500	Brst - Bristol	13757810	790 Willis Street, Bristol, Connecticut
302467	Bilkays Express	13757812	90 North Plains Industrial Rd. Wallingford, Connecticut
302536	Cherry Hill-branford	13759895	4 Beaver Road, Brandford, Connecticut
302482	North Havent CT 1	14050356	15 Dewight Street, North Haven, Connecticut
311305	GLFD-GUILFORD REBUILD CT	14050358	10 Tanner Marsh Road, Guilford, Connecticut
411261	CROMWELLSW CT	14089799	99 Christian Hill Road, Cromwell, Connecticut
302481	Hrfr - South	14090117	289 Mountain Street, Hartford, Connecticut

Signature: \_\_\_\_\_

  
Margaret Robinson, Vice President  
US Tower Legal Division

**See attached Notary Block**



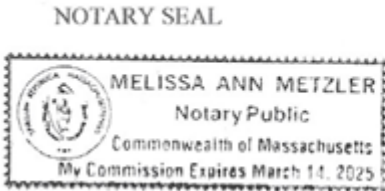
**LETTER OF AUTHORIZATION  
CENTERLINE COMMUNICATIONS LLC/ AT&T MOBILITY**

**NOTARY BLOCK**

COMMONWEALTH OF MASSACHUSETTS  
County of Middlesex

This instrument was acknowledged before me by Margaret Robinson, Vice President, UST Legal of American Tower (Tower Facility owner), personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same.

WITNESS my hand and official seal, this 30<sup>th</sup> day of June, 2022.



Notary Public   
My Commission Expires: March 14, 2025



# Town of Stratford GIS

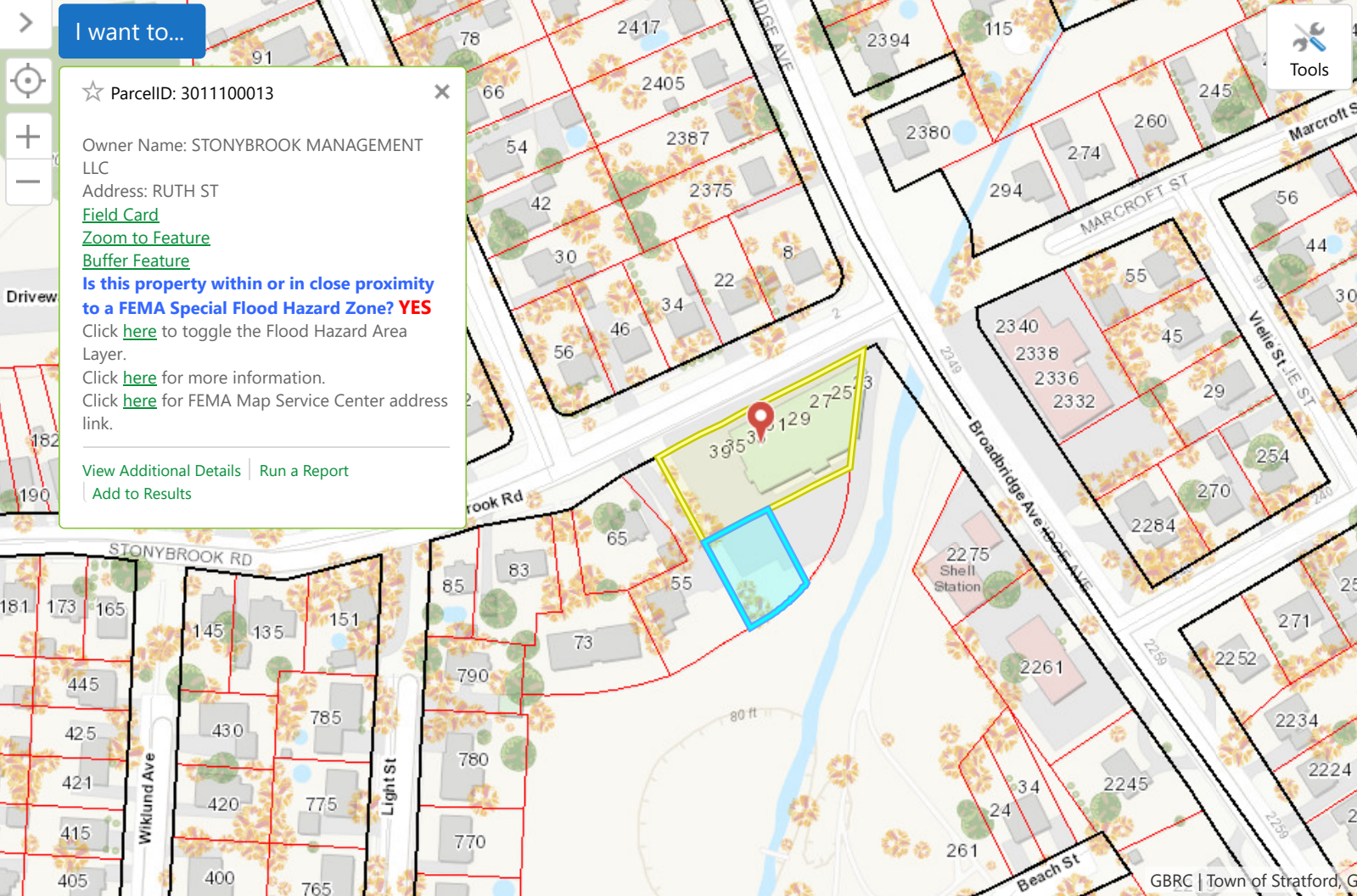
Search...

I want to...

☆ ParcelID: 3011100013 ✕

Owner Name: STONYBROOK MANAGEMENT LLC  
 Address: RUTH ST  
[Field Card](#)  
[Zoom to Feature](#)  
[Buffer Feature](#)  
**Is this property within or in close proximity to a FEMA Special Flood Hazard Zone? YES**  
 Click [here](#) to toggle the Flood Hazard Area Layer.  
 Click [here](#) for more information.  
 Click [here](#) for FEMA Map Service Center address link.

[View Additional Details](#) | [Run a Report](#)  
[Add to Results](#)



WORLD...

1:500



# RUTH ST

**Location** RUTH ST

**Mblu** 30/11 10/ 13/ /

**Acct#** 1499000

**Owner** STONYBROOK MANAGEMENT LLC

**PBN**

**Assessment** \$169,540

**Appraisal** \$242,200

**PID** 15511

**Building Count** 1

**Sewer Use** E00

**EPA Action**

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2019	\$180,000	\$62,200	\$242,200
Assessment			
Valuation Year	Improvements	Land	Total
2019	\$126,000	\$43,540	\$169,540

## Owner of Record

<b>Owner</b>	STONYBROOK MANAGEMENT LLC	<b>Sale Price</b>	\$0
<b>Co-Owner</b>		<b>Certificate</b>	
<b>Address</b>	124 KNAPP ST EASTON, CT 06612	<b>Book</b>	2604
		<b>Page</b>	0275
		<b>Sale Date</b>	03/24/2005
		<b>Instrument</b>	25

## Ownership History

Ownership History						
Owner	Sale Price	Certificate	Instrument	Sale Date	Book	Page
STONYBROOK MANAGEMENT LLC	\$0		25	03/24/2005	2604	0275
STONYBROOK CENTER INC THE	\$0			08/13/1969	0451	0378



## Building Information

### Building 1 : Section 1

Year Built:

Living Area: 0

Building Percent Good:

Building Attributes	
Field	Description
Style:	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Total Kitchens	
Whirlpool Tub	
Fireplaces	
Rec Room Area	
Rec Room Quality	
Num Park	
Fireplaces 2	
Fndtn Cndtn	

### Building Photo



(<https://images.vgsi.com/photos/StratfordCTPhotos/\00\04\29\92.JPG>)

### Building Layout

 Building Layout (ParcelSketch.ashx?pid=15511&bid=15511)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Basement	
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**Extra Features**

Extra Features	<u>Legend</u>
No Data for Extra Features	

**Land**

Land Use	Land Line Valuation
<b>Use Code</b> 337	<b>Size (Acres)</b> 0.11
<b>Description</b> Parking Lot	<b>Frontage</b> 0
<b>Zone</b>	<b>Depth</b> 0
<b>Neighborhood</b> 080	<b>Assessed Value</b> \$43,540
<b>Alt Land Appr</b> No	<b>Appraised Value</b> \$62,200
<b>Category</b>	

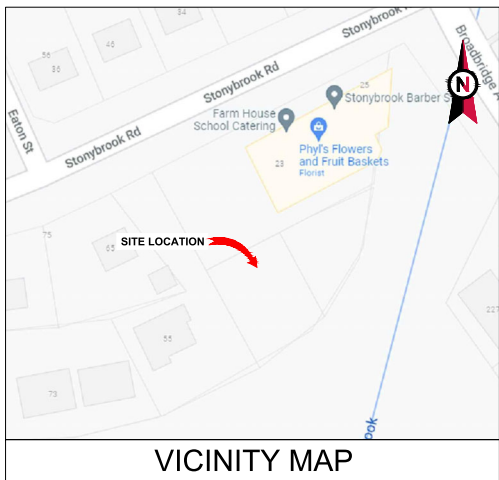
**Outbuildings**

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV	Paving	AS	Asphalt	5000.00 S.F.	\$5,000	1
CTP	Cell Tower - Pole			1.00 Units	\$175,000	1

**Valuation History**

Appraisal			
Valuation Year	Improvements	Land	Total
2021	\$180,000	\$62,200	\$242,200
2020	\$180,000	\$62,200	\$242,200
2019	\$180,000	\$62,200	\$242,200

Assessment			
Valuation Year	Improvements	Land	Total
2021	\$126,000	\$43,540	\$169,540
2020	\$126,000	\$43,540	\$169,540
2019	\$126,000	\$43,540	\$169,540



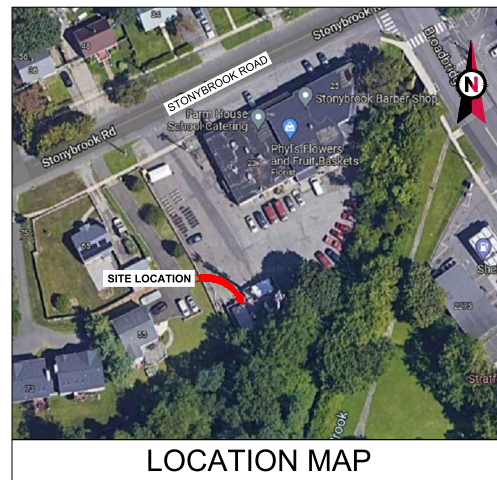
VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: STONEYBROOK RD CT  
 ATC SITE NUMBER: 283420  
 AT&T PACE NUMBERS: MRCTB052098, MRCTB051448, MRCTB053107  
 AT&T SITE ID: CTL02381  
 AT&T FA CODE: 12906923  
 AT&T SITE NAME: STRATFORD STONEYBROOK RD  
 SITE ADDRESS: 23 STONEYBROOK ROAD  
 STRATFORD, CT 06614

**AT&T LTE 7C/5G NR 1SR CBAND  
 AMENDMENT PLAN**



LOCATION MAP



**Dewberry®**  
 Dewberry Engineers Inc.  
 99 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.695.3400  
 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
△	PRELIM	BR	01/14/22
△	FINAL	BR	04/20/22
△			
△			

ATC SITE NUMBER:  
283420  
 ATC SITE NAME:  
STONEYBROOK RD CT  
 AT&T SITE NAME:  
STRATFORD STONEYBROOK RD  
 SITE ADDRESS:  
23 STONEYBROOK ROAD  
STRATFORD, CT 06614



DATE DRAWN: 01/14/22  
 ATC JOB NO: 13682835\_D1  
 CUSTOMER ID: CTL02381  
 CUSTOMER #: 12906923

TITLE SHEET

SHEET NUMBER: **G-001** REVISION: **0**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
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.  1. 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015 2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL 3. TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS 4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION 6. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 23 STONEYBROOK ROAD STRATFORD, CT 06614 COUNTY: FAIRFIELD  <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.20327777 LONGITUDE: -73.148625 GROUND ELEVATION: 77' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (9) ANTENNA(S) AND (1) SQUID(S) INSTALL (12) ANTENNA(S), (4) RRH(S) AND (2) SQUID(S) EXISTING (15) RRH(S), (3) DC TRUNK(S), (1) SQUID(S) AND (1) FIBER TRUNK(S) TO REMAIN  <u>GROUND WORK:</u> INSTALL (1) FRONTHAUL GATEWAY, (1) IDLE XCEDE	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u>  <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801  <u>ENGINEER:</u> DEWBERRY ENGINEERS INC. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110 PHONE: 617.695.3400 FAX: 617.695.3310  <u>PROPERTY OWNER:</u> JOHN D MIRANDA 23 STONEYBROOK ROAD STRATFORD, CT 06614-3715	<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 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. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001 TITLE SHEET 0 04/20/22 BR G-002 GENERAL NOTES 0 04/20/22 BR C-101 DETAILED SITE PLAN 0 04/20/22 BR C-201 TOWER ELEVATION 0 04/20/22 BR C-401 RF SCHEDULE AND ANTENNA INSTALLATION 0 04/20/22 BR C-501 CONSTRUCTION DETAILS 0 04/20/22 BR E-501 GROUNDING DETAILS 0 04/20/22 BR R-601 SUPPLEMENTAL R-602 SUPPLEMENTAL R-603 SUPPLEMENTAL				
	<u>PROJECT LOCATION DIRECTIONS</u> FROM DOWNTOWN NEW HAVEN START OUT GOING NORTHEAST ON CHURCH ST TOWARD WALL ST. CHURCH ST BECOMES WHITNEY AVE. TURN RIGHT ONTO TRUMBULL ST. TURN SLIGHT LEFT TO TAKE THE I-91 S/I-91 N RAMP. MERGE ONTO I-91 S TOWARD I-95/NEW LONDON/N.Y. CITY. MERGE ONTO I-95 S VIA THE EXIT ON THE LEFT TOWARD N.Y. CITY. TAKE EXIT 32 TOWARD W BROAD ST/STRATFORD. MERGE ONTO LINDEN AVE. TAKE THE 1ST RIGHT ONTO W BROAD ST. TAKE THE 1ST RIGHT ONTO W BROAD ST. TURN RIGHT ONTO BARNUM AVE/US-1 N. TAKE THE 2ND LEFT ONTO BROADBRIDGE AVE. TURN LEFT ONTO STONEYBROOK RD. SITE IS ON THE LEFT.						



**GENERAL CONSTRUCTION NOTES:**

1. OWNER FURNISHED MATERIALS, AT&T THE COMPANY WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
  - B. AC/TELCO INTERFACE BOX (PIC)
  - C. ICE BRIDGE CABLE TRAY WITH COVER (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES
  - E. TOWER LIGHTING
  - F. GENERATORS & LIQUID PROPANE TANK
  - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - H. ANTENNAS (INSTALLED BY OTHERS)
  - I. TRANSMISSION LINE
  - J. TRANSMISSION LINE JUMPERS
  - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - L. TRANSMISSION LINE GROUND KITS
  - M. HANGERS
  - N. HOISTING GRIPS
  - O. 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 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 TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. 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.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T 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.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO

- DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.
  24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
  25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
  26. 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.
  27. CONTRACTOR SHALL NOTIFY AT&T 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.
  28. 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.
  29. 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 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, 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.
  30. 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 REP. ANY WORK FOUND BY THE AT&T REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
  31. 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.
  32. AT&T FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, 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.
  33. AT&T 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 OR THEIR ARCHITECT/ENGINEER.

**SPECIAL CONSTRUCTION**

**ANTENNA INSTALLATION NOTES:**

1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T 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.
  - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T SPECIFICATIONS.
  - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
  - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
  - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRTRU-PACKER AND 8135 RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RF'S "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIX 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.
  - F. 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.
  - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREEN GROUND WIRE 'DAISY CHAIN' CONNECTIONS ARE TO BE WEATHER SEALED WITH RF'S CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

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.



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 Dewberry Engineers Inc.  
 99 SUMMER STREET  
 SUITE 700  
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 PHONE: 617.695.3400  
 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
△	PRELIM	BR	01/14/22
△	FINAL	BR	04/20/22
△			
△			

ATC SITE NUMBER:  
 283420  
 ATC SITE NAME:  
 STONEYBROOK RD CT  
 AT&T SITE NAME:  
 STRATFORD STONEYBROOK RD  
 SITE ADDRESS:  
 23 STONEYBROOK ROAD  
 STRATFORD, CT 06614

SEAL:



DATE DRAWN: 01/14/22  
 ATC JOB NO: 13682835\_D1  
 CUSTOMER ID: CTL02381  
 CUSTOMER #: 12906923

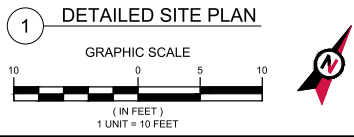
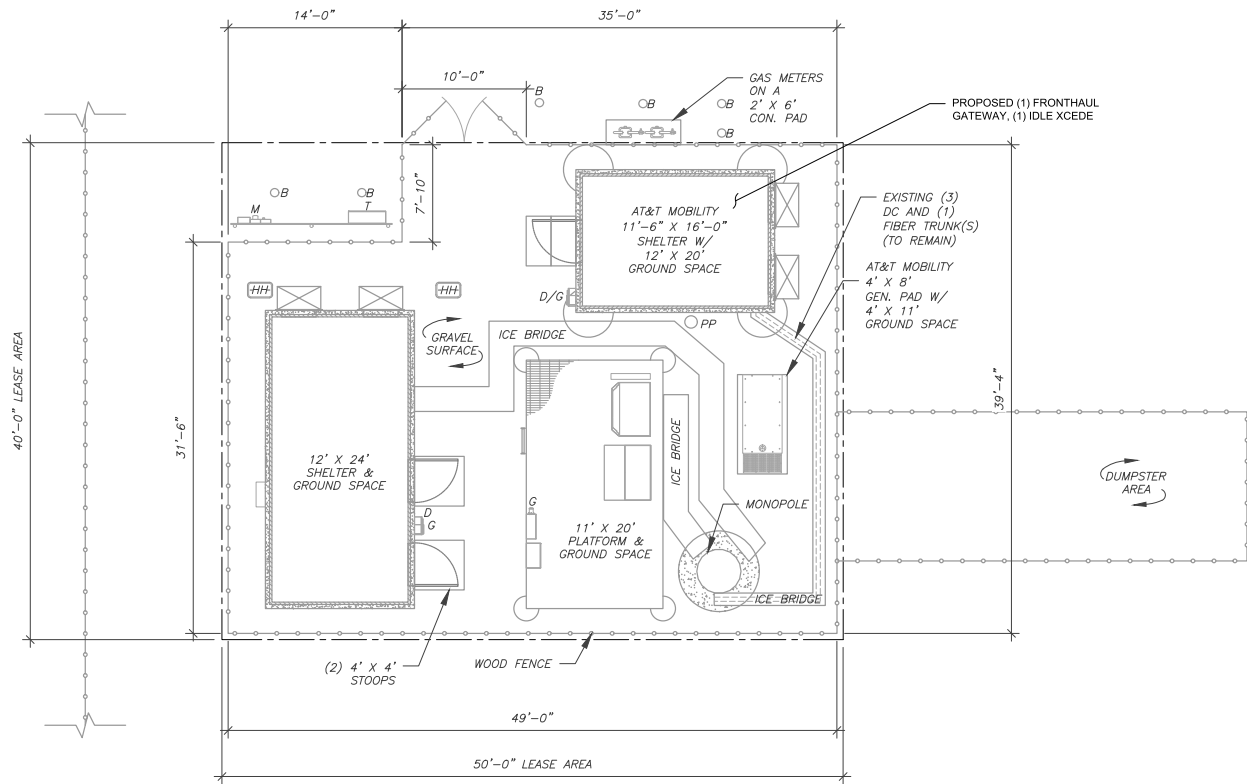

**GENERAL NOTES**

SHEET NUMBER: **G-002** REVISION: **0**

**SITE PLAN NOTES:**

1. 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.
2. 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.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

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	TELCO
TRN	TRANSFORMER
— · — · —	CHAINLINK FENCE

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ATC SITE NUMBER:  
**283420**

ATC SITE NAME:  
**STONEBROOK RD CT**

AT&T SITE NAME:  
**STRATFORD STONYBROOK RD**

SITE ADDRESS:  
23 STONYBROOK ROAD  
STRATFORD, CT 06614

SEAL:

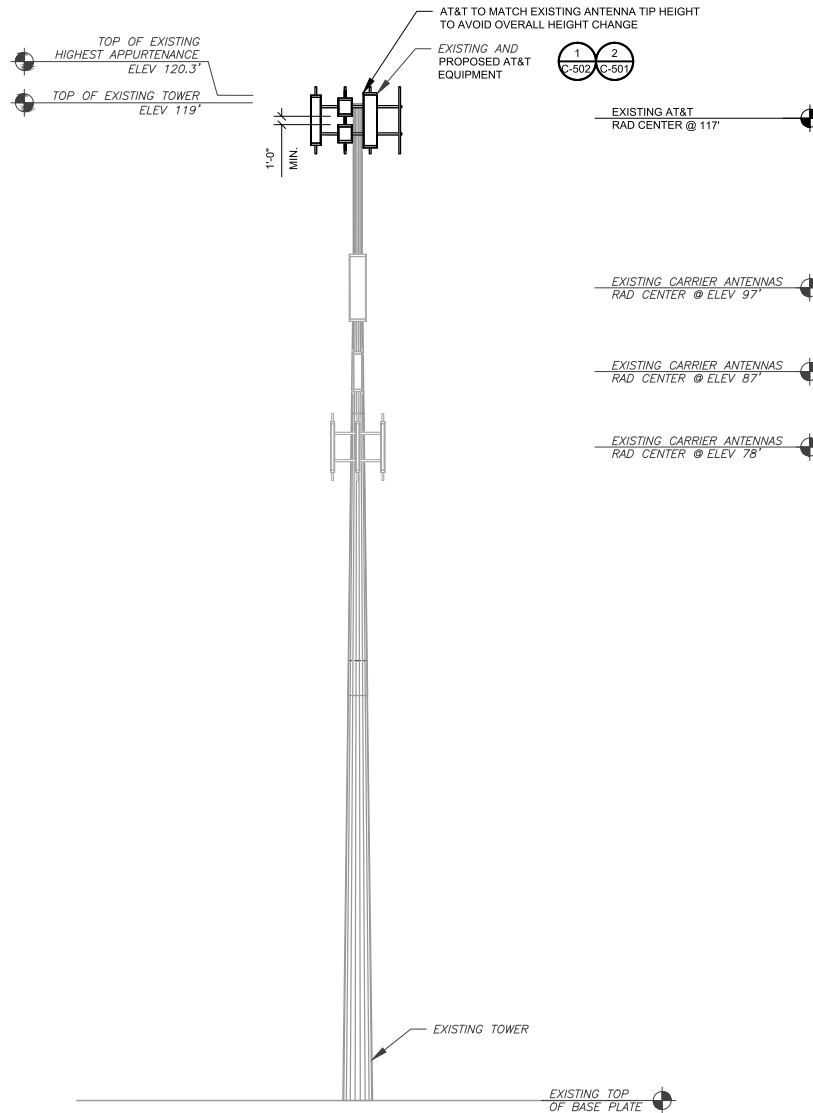



DATE DRAWN:	01/14/22
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CUSTOMER #:	12906923

**DETAILED SITE PLAN**

SHEET NUMBER:	REVISION:
<b>C-101</b>	<b>0</b>

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PER MOUNT ANALYSIS COMPLETED BY CLS ENGINEERING PLLC, DATED 01/11/2022, 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 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.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE-GROUND LEVEL (A.G.L.)
- TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

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



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23 STONYBROOK ROAD  
STRATFORD, CT 06614



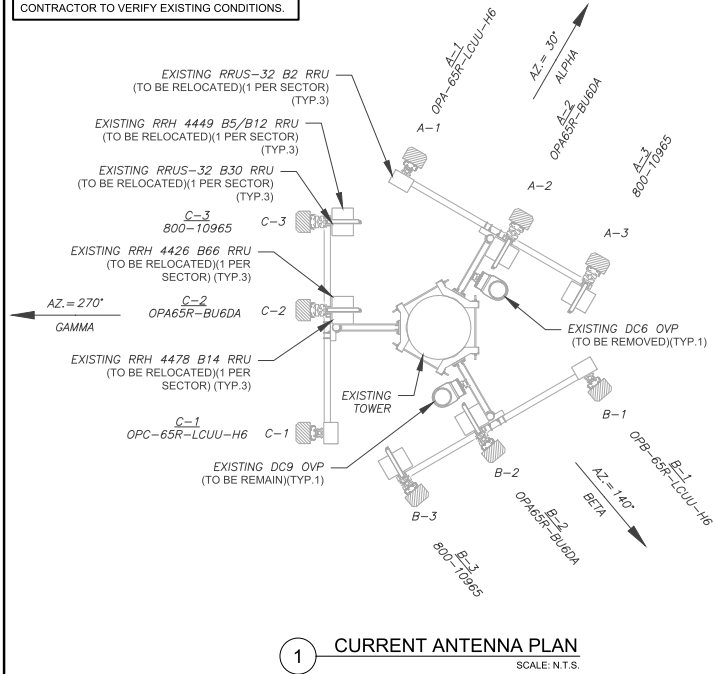
DATE DRAWN:	01/14/22
ATC JOB NO:	13682835_D1
CUSTOMER ID:	CTL02381
CUSTOMER #:	12906923

**TOWER ELEVATION**

SHEET NUMBER:	REVISION:
<b>C-201</b>	<b>0</b>

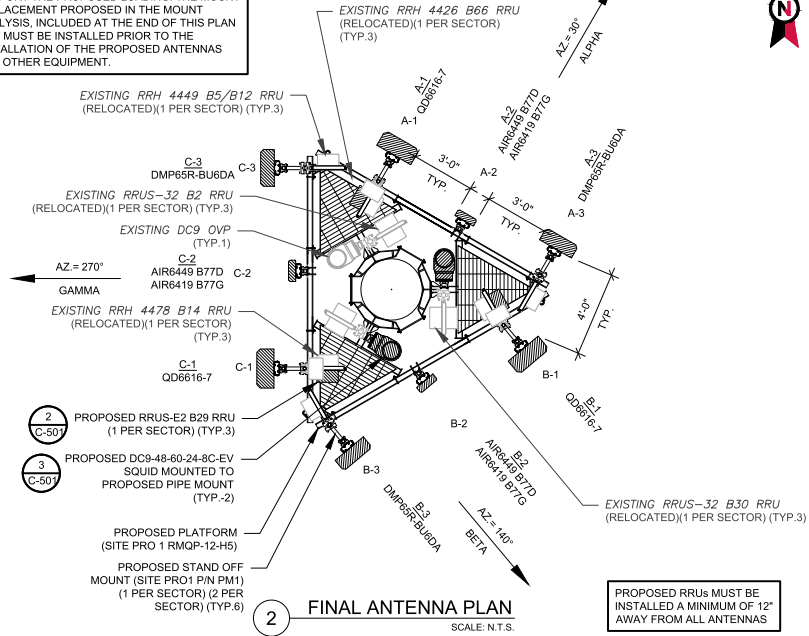
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EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



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

PER MOUNT ANALYSIS COMPLETED BY CLS ENGINEERING PLLC, DATED 01/11/2022, 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.



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

EXISTING ANTENNA SCHEDULE							
ANTENNA SUMMARY							
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	NON ANTENNA SUMMARY
ALPHA	117'	30°	A1	OPA-65R-LCUU-H6	LTE 1900	RMV	RRUS-32 B2
			A2	OPA65R-BU6DA	LTE AWS, LTE 700	RMV	RRH 4478 B14
			A3	800-10965	LTE 850, 5G 850, LTE WCS, LTE 700	RMV	RRH 4426 B66
BETA	117'	140°	B1	OPA-65R-LCUU-H6	LTE 1900	RMV	RRUS-32 B2
			B2	OPA65R-BU6DA	LTE AWS, LTE 700	RMV	RRH 4478 B14
			B3	800-10965	LTE 850, 5G 850, LTE WCS, LTE 700	RMV	RRH 4426 B66
GAMMA	117'	270°	C1	OPA-65R-LCUU-H6	LTE 1900	RMV	RRUS-32 B2
			C2	OPA65R-BU6DA	LTE AWS, LTE 700	RMV	RRH 4478 B14
			C3	800-10965	LTE 850, 5G 850, LTE WCS, LTE 700	RMV	RRH 4426 B66

**NOTES**

- CONFIRM WITH AT&T REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO GAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
- CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)

FINAL ANTENNA SCHEDULE							
ANTENNA SUMMARY							
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	NON ANTENNA SUMMARY
ALPHA	117'	30°	A1	QD6616-7	LTE 700, 5G 1900, 5G AWS	ADD	RRH 4426 B66
			A2	AIR6449 B77D AIR6419 B77G	5C CBAND	ADD	RRH 4478 B14
			A3	DMP65R-BU6DA	5G 850	ADD	RRUS-32 B2
BETA	117'	140°	B1	QD6616-7	LTE 700, 5G 1900, 5G AWS	ADD	RRH 4449 B5/B12
			B2	AIR6449 B77D AIR6419 B77G	5C CBAND	ADD	RRUS-32 B30
			B3	DMP65R-BU6DA	5G 850	ADD	RRH 4426 B66
GAMMA	117'	270°	C1	QD6616-7	LTE 700, 5G 1900, 5G AWS	ADD	RRH 4478 B14
			C2	AIR6449 B77D AIR6419 B77G	5C CBAND	ADD	RRUS-32 B2
			C3	DMP65R-BU6DA	5G 850	ADD	RRUS-E2 B29

**STATUS ABBREVIATIONS**

RMV: TO BE REMOVED  
RMN: TO REMAIN  
REL: TO BE RELOCATED  
ADD: TO BE ADDED

**CABLE LENGTHS FOR JUMPERS**

JUNCTION BOX TO RRU: 15'  
RRU TO ANTENNA: 10'

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(1) DC6-48-60-18-8F	RMV	-	(3)	(1)	RMN
(1) DC9-48-60-24-8C-EV	RMN	-	-	-	-

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC9-48-60-24-8C-EV	ADD	-	(3)	(1)	RMN
(1) DC9-48-60-24-8C-EV	RMN	-	-	-	-

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△	FINAL	BR	04/20/22
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ATC SITE NUMBER:  
283420

ATC SITE NAME:  
STONEBROOK RD CT

AT&T SITE NAME:  
STRATFORD STONYBROOK RD

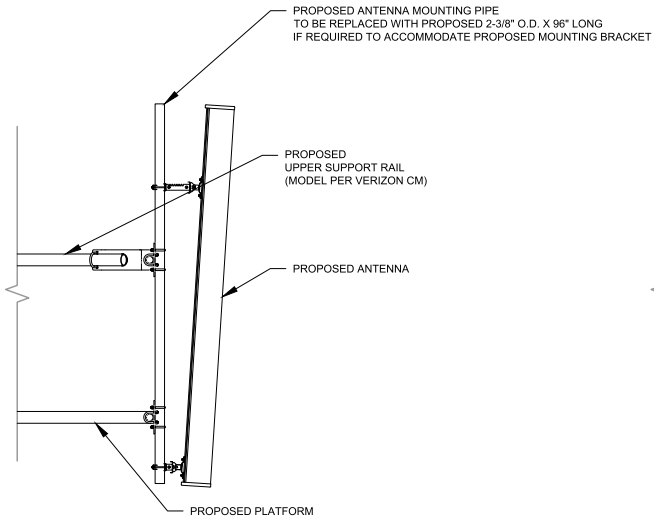
SITE ADDRESS:  
23 STONYBROOK ROAD  
STRATFORD, CT 06614

DATE DRAWN: 01/14/22  
ATC JOB NO: 13682835\_D1  
CUSTOMER ID: CTL02381  
CUSTOMER #: 12906923

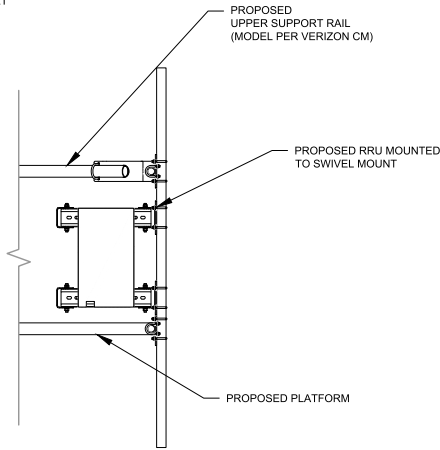
**RF SCHEDULE AND ANTENNA INSTALLATION**

SHEET NUMBER:	REVISION:
<b>C-401</b>	<b>0</b>

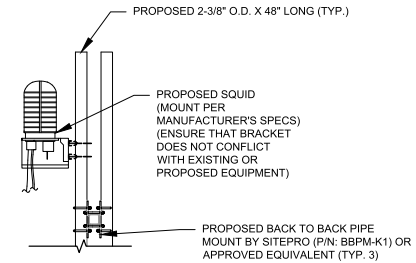
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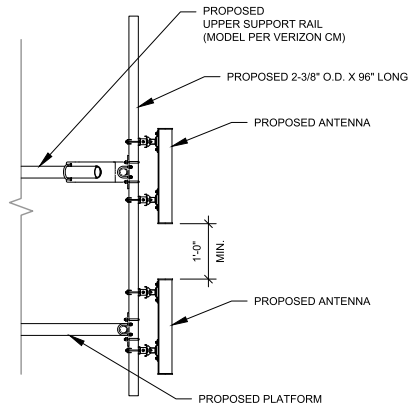
1 ANTENNA DETAIL  
SCALE: N.T.S.



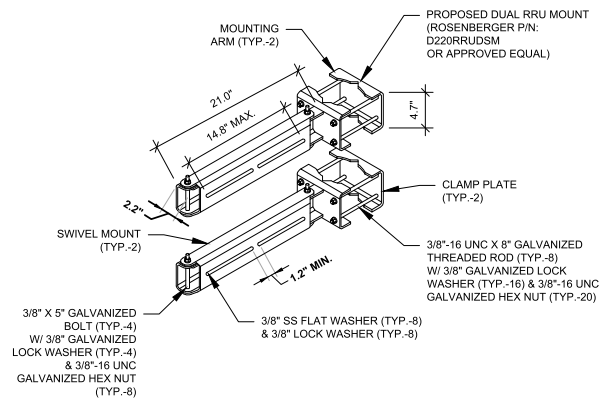
2 PROPOSED RRU MOUNTING DETAIL - TYPICAL  
SCALE: N.T.S.



3 PROPOSED SQUID MOUNTING  
SCALE: N.T.S.



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



5 PROPOSED SWIVEL MOUNT DETAIL  
SCALE: N.T.S.



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SITE ADDRESS:  
23 STONYBROOK ROAD  
STRATFORD, CT 06614

SEAL:

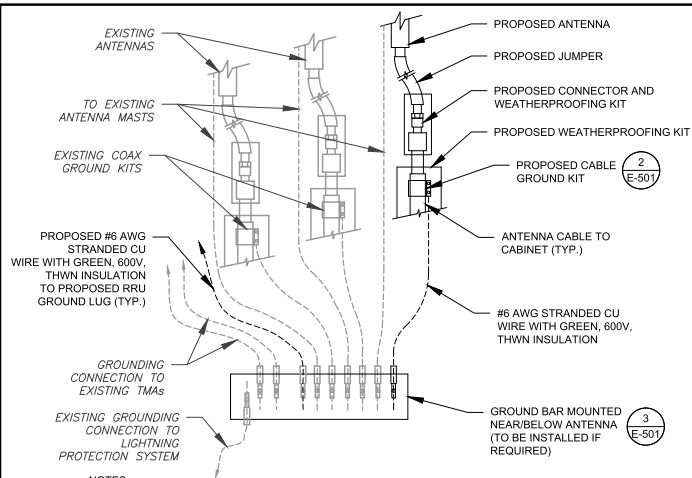


DATE DRAWN:	01/14/22
ATC JOB NO:	13682835_D1
CUSTOMER ID:	CTL02381
CUSTOMER #:	12906923

CONSTRUCTION  
DETAILS

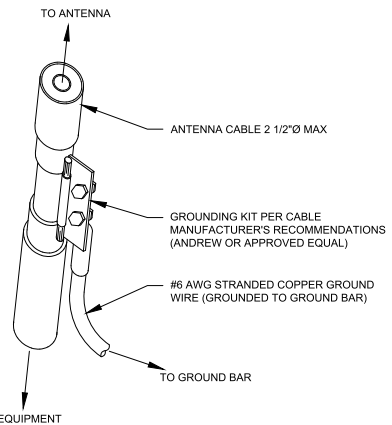
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C-501	0





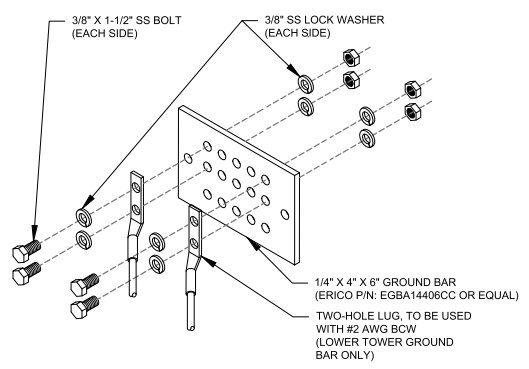
- NOTES:**
- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
  - SITE GROUNDING SHALL COMPLY WITH AT&T 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: N.T.S.



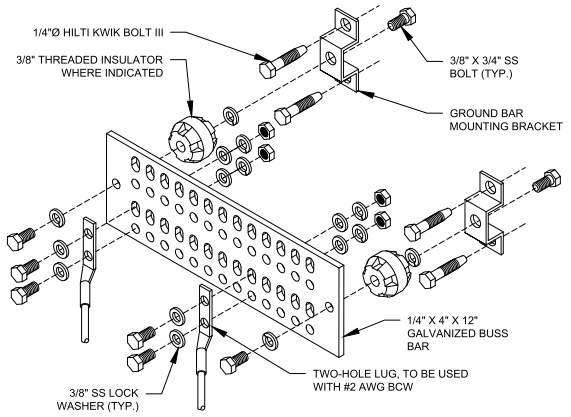
- GROUND KIT NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  - CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

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



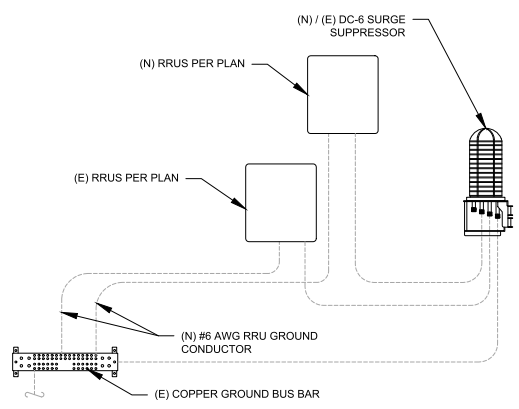
- GROUND BAR NOTES:**
- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
  - GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

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

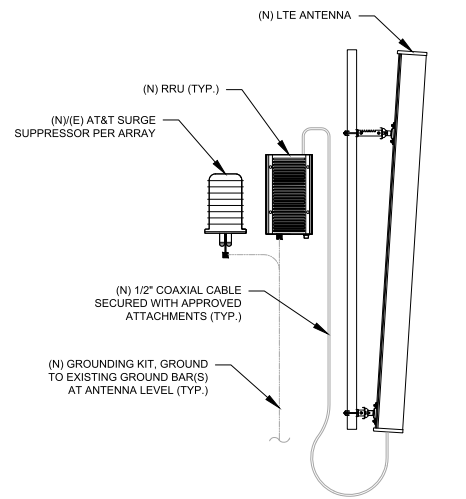


- GROUND BAR NOTES:**
- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
  - GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

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



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



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

**AMERICAN TOWER**

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ATC SITE NUMBER:  
**283420**

ATC SITE NAME:  
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AT&T SITE NAME:  
**STRATFORD STONYBROOK RD**

SITE ADDRESS:  
23 STONYBROOK ROAD  
STRATFORD, CT 06614

SEAL:

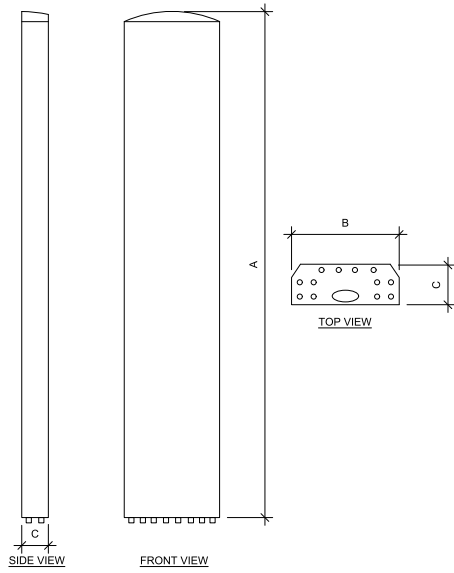
**AT&T**

DATE DRAWN:	01/14/22
ATC JOB NO:	13682835_D1
CUSTOMER ID:	CTL02381
CUSTOMER #:	12906923

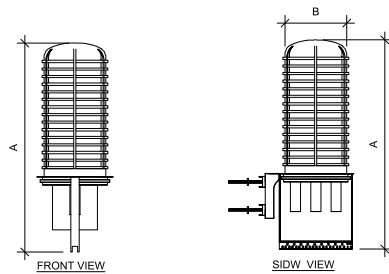
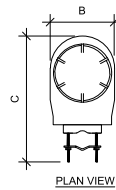
GROUNDING DETAILS

SHEET NUMBER: <b>E-501</b>	REVISION: <b>0</b>
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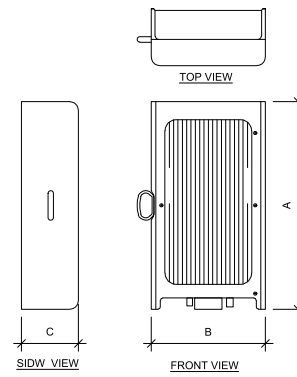
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
OD6616-7	72.0"	22.0"	9.6"	59.1
AIR6449 B77D	30.4"	15.9"	8.1"	81.6
AIR6419 B77G	30.4"	15.9"	8.1"	81.6
DMP65R-BU6DA	71.2"	20.2"	7.7"	79.4



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	18.3"	10.2"	16.0



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4415 B30	16.5"	13.4"	5.9"	46.0

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



**Dewberry®**  
Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310

ATC SITE NUMBER:  
**283420**

ATC SITE NAME:  
**STONEBROOK RD CT**

AT&T SITE NAME:  
**STRATFORD STONYBROOK RD**

SITE ADDRESS:  
23 STONYBROOK ROAD  
STRATFORD, CT 06614

SEAL:



DATE DRAWN: 01/14/22  
ATC JOB NO: 13682835\_D1  
CUSTOMER ID: CTL02381  
CUSTOMER #: 12906923

**SUPPLEMENTAL**

SHEET NUMBER:  
**R-601**



This report was prepared for American Tower Corporation by



### Antenna Mount Analysis Report

ATC Site Name : STONEYBROOK RD CT  
 ATC Asset Number : 283420  
 Engineering Number : 13682835\_C8\_01  
 Mount Elevation : 118.75 ft  
 Carrier : AT&T Mobility  
 Carrier Site Name : MRCTB051448  
 Carrier Site Number : CTL02381  
 Site Location : 23 Stonybrook Road  
 Stratford, CT 06614-3715  
 41.203278, -73.148625  
 County : Fairfield  
 Date : January 11, 2022  
 Max Usage : 85%  
 Result : Contingent Pass\*  
 \*See conclusion for requirements

Prepared By:  
 Snehitha Narava  
 CLS Engineering, PLLC

Reviewed By:  
 William Holt, P.E.  
 CLS Engineering, PLLC

William Holt  
 Digitally signed by  
 William Holt  
 Date: 2022.01.11 15:17:16  
 -05'00'



Mount Analysis for American Tower  
 283420 - STONEYBROOK RD CT

January 11, 2022  
 CLS Engineering, PLLC Project #41124-13682835\_C8\_01-01-MA

#### Conclusion

Based on the analysis, the antenna mount meets the requirements per the applicable codes listed above. 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:

**AT&T CONMAT does not have parts which connect HSS tube to pipe. Hence proposing additional parts not listed in conmat for mounting equipment on standoff.**

- Replace existing T-Arms with (1) proposed Site Pro 1 RMQP-12-H5 (ANT.46132) Platform w/ HRK12-HD (ANT.51651) Support Rail Kit. Do not install work support platform below proposed platform mount.
- Install Site Pro 1 HRK12-HD (ANT.51651) Support Rail kit at 3'-6" above the existing platform horizontal pipe. Connect to all mount pipes using Site Pro 1 SCX2 crossover plate kits included in the Support Rail kit (12 total).
- Install (1) proposed 6 ft long pipe 2 STD, A53 Gr. B standoff mount pipe at each sector (3 total) as shown. Connect to existing standoff member using Site Pro 1 SQCX4-K crossover plate kits (3 total).
- All mount pipes are to be installed as shown in following sketches.
- Install proposed antennas such that they are vertically centered on platform base. Install proposed RRUS and TMAs behind the antennas.

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.



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 BOSTON, MA 02110  
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ATC SITE NUMBER:  
 283420  
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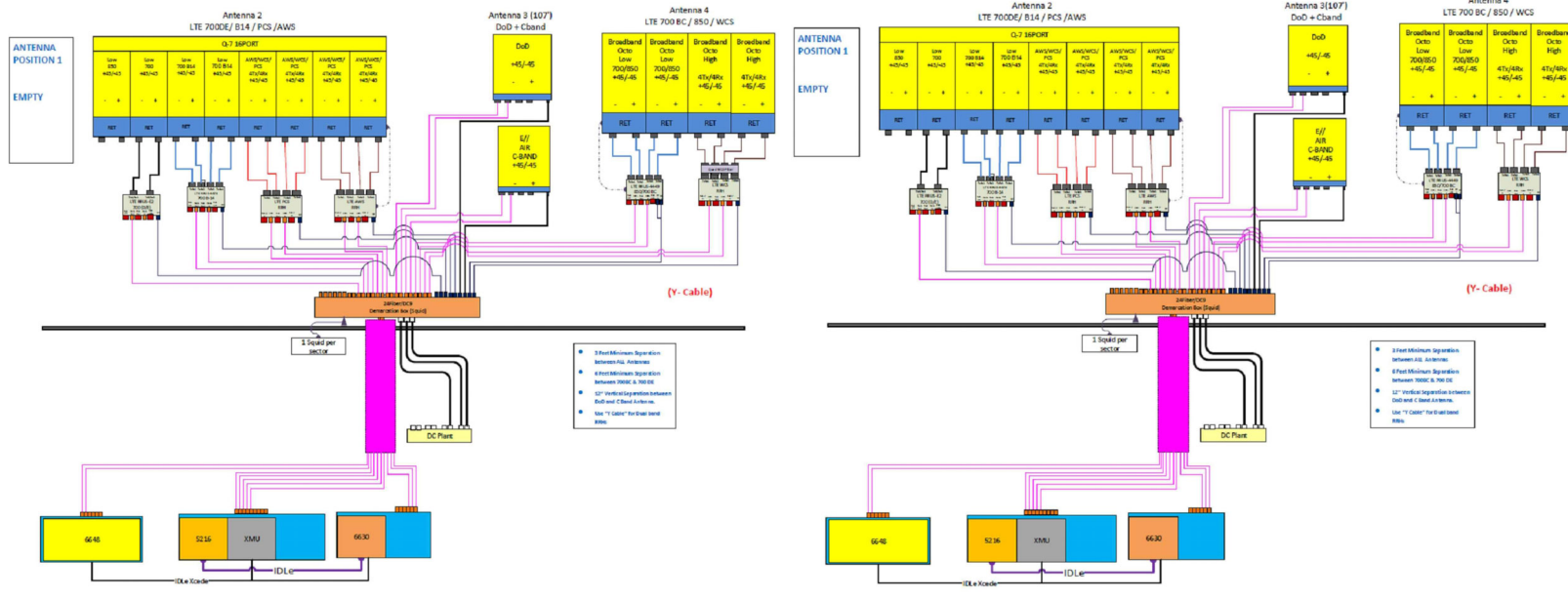
SUPPLEMENTAL

SHEET NUMBER:  
**R-602**

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 CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.



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1 RFDS PLUMBING DIAGRAM

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. GENERAL CONTRACTOR IS TO CHECK WITH THE AT&T CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.

ATC SITE NUMBER:  
 283420  
 ATC SITE NAME:  
 STONEYBROOK RD CT  
 AT&T SITE NAME:  
 STRATFORD STONEYBROOK RD  
 SITE ADDRESS:  
 23 STONEYBROOK ROAD  
 STRATFORD, CT 06614

SEAL:

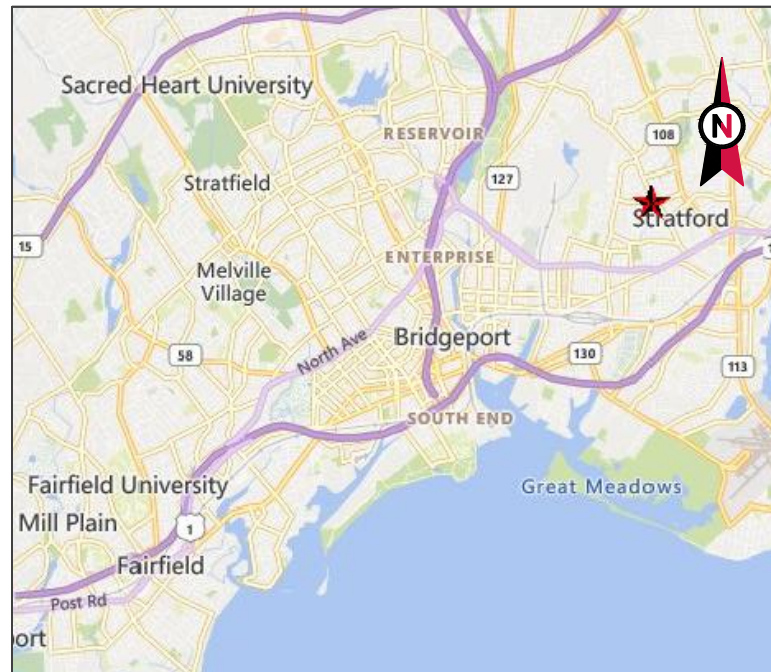


DATE DRAWN: 01/14/22  
 ATC JOB NO: 13682835\_D1  
 CUSTOMER ID: CTL02381  
 CUSTOMER #: 12906923

SUPPLEMENTAL

SHEET NUMBER:  
 R-603

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VICINITY MAP



**AMERICAN TOWER®**

SITE NAME: STONEYBROOK RD CT  
 SITE NUMBER: 283420  
 ATC PROJECT NUMBER: 13682835\_C6\_06  
 SITE ADDRESS: 23 STONYBROOK ROAD  
 STRATFORD, CT 06614



LOCATION MAP

119.7 FT MONOPOLE MODIFICATIONS

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
<p><b>TOWER OWNER</b> AMERICAN TOWER 10 PRESIDENTAL WAY WOBURN, MA 01801</p> <p><b>ENGINEERED BY</b> ATC TOWER SERVICES 3500 REGENCY PARKWAY, SUITE 100 CARY, NC 27518</p> <p><b>CARRIER INFORMATION</b> CARRIER: AT&amp;T MOBILITY CARRIER SITE NAME: MRCTB051448 CARRIER SITE NUMBER: CTL02381</p>	<p>THE PROJECT DEPICTED IN THESE PLANS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 13682835_C3_03 DATED 01/24/22. SATISFACTORY COMPLETION OF THE WORK INDICATED IN THESE PLANS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.</p> <p><b>PROJECT NOTE</b></p> <p>THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.6100 (B)(7).</p> <p><b>COMPLIANCE CODE</b></p> <p>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.</p> <p>1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-H EDITION)            2. INTERNATIONAL BUILDING CODE (2015 IBC)            3. CONNECTICUT STATE BUILDING CODE (2018)</p> <p><b>PROJECT LOCATION</b>  <b>GEOGRAPHIC COORDINATES</b></p> <p>LATITUDE: 41.20327777            LONGITUDE: -73.148625</p>	G-002	IBC GENERAL NOTES	0
		G-003	SPECIAL INSPECTION CHECKLIST	0
		G-004	BILL OF MATERIALS	0
		C-101	DETAILED SITE PLAN	0
		S-201	MODIFICATION PROFILE	0
		S-501	REINFORCEMENT INSTALLATION DETAILS	0
		S-502	REINFORCEMENT INSTALLATION DETAILS	0
		S-503	REINFORCEMENT INSTALLATION DETAILS (CONT'D)	0
		S-504	#20 STEP BOLT BRACKET INSTALLATION DETAILS	0
		Z-501	#20 BAR BRACKET [W8X21 T-BRACKET]	0

**AMERICAN TOWER®**  
 A.T. ENGINEERING SERVICE, PLLC  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: PEC.0001553

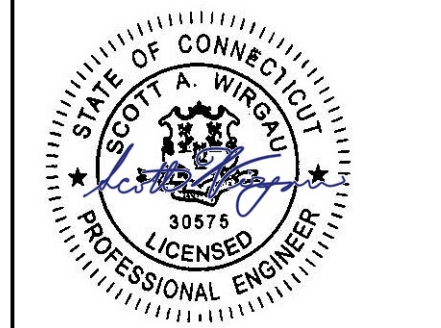
THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	01/05/23

ATC SITE NUMBER:  
283420

ATC SITE NAME:  
STONEYBROOK RD CT  
CONNECTICUT

SITE ADDRESS:  
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STRATFORD, CT 06614



DRAWN BY:	CWB
APPROVED BY:	RDB
DATE DRAWN:	01/05/23
ATC JOB NO:	13682835_C6_06

COVER

SHEET NUMBER: **G-001**      REVISION: **0**

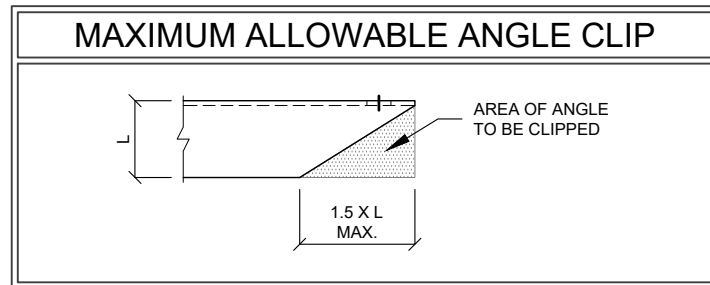


**GENERAL**

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSI/TIA-322 AND ANSI/ASSE A10.48, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

**STRUCTURAL STEEL**

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- 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 U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & 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 MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYGUARD CA-9 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.



**PAINT**

- AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1L.

**WELDING**

- 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. IF DIRECTED BY ENGINEER OF RECORD, 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER AND/OR BASE METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- IN CASES WHERE BASE METAL GRADE IS UNKNOWN, ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES; ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX ELECTRODES, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZED 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.

**BOLT TIGHTENING PROCEDURE**

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
- FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS. DTI SQUIRTER WASHERS ARE TO BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- IN LIEU OF USING DTI SQUIRTER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC / RCSC "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW:

**BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS**

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

**BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS**

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

- SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

**8.2.1 TURN-OF-NUT PRETENSIONING**

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

- ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

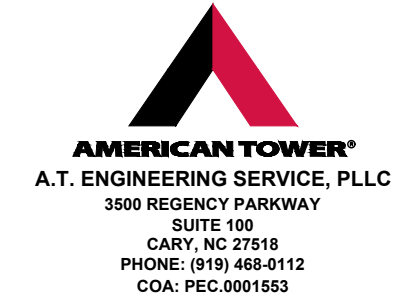
ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

**APPLICABLE CODES AND STANDARDS**

- ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-H EDITION.
- 2018 CONNECTICUT STATE BUILDING CODE.
- 2015 INTERNATIONAL BUILDING CODE.
- ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. REFERENCE LATEST APPROPRIATE EDITION TO MATCH LOCAL AND/OR INTERNATIONAL BUILDING CODE(S) LISTED ABOVE.
- CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

**SPECIAL INSPECTION**

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2015, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
  - STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
  - HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2015, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.



THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

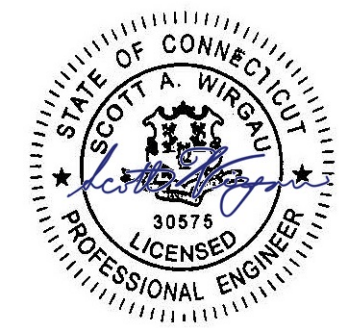
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	01/05/23

ATC SITE NUMBER:  
**283420**

ATC SITE NAME:  
**STONEBROOK RD CT**

**CONNECTICUT**

SITE ADDRESS:  
23 STONYBROOK ROAD  
STRATFORD, CT 06614



DRAWN BY:	CWB
APPROVED BY:	RDB
DATE DRAWN:	01/05/23
ATC JOB NO:	13682835_C6_06

<b>IBC GENERAL NOTES</b>	
SHEET NUMBER: <b>G-002</b>	REVISION: <b>0</b>

**MODIFICATION INSPECTION NOTES**

THE SPECIAL INSPECTION (SI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE SI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR AND THE INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED FROM AMERICAN TOWER CORPORATION (ATC). IT IS EXPECTED THAT EACH PARTY WILL PROACTIVELY REACH OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR AMERICAN TOWER POINT OF CONTACT.

**SPECIAL INSPECTOR**

THE SPECIAL INSPECTOR IS REQUIRED TO CONTACT THE GENERAL CONTRACTOR AS SOON AS RECEIVING A PO FROM ATC. UPON RECEIVING A PO FROM ATC THE SPECIAL INSPECTOR AT A MINIMUM MUST:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE GENERAL CONTRACTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- ANY CONCERNS WITH THE SCOPE OF WORK OR PROJECT COMMITMENT MUST BE RELAYED TO THE ATC POINT OF CONTACT IMMEDIATELY.

THE SPECIAL INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR INSPECTION AND TEST REPORTS, REVIEWING THESE DOCUMENTS FOR ADHERENCE TO CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE SI REPORT TO AMERICAN TOWER CORPORATION.

**GENERAL CONTRACTOR**

THE GENERAL CONTRACTOR IS REQUIRED TO CONTACT THE SI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE SI TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS.

THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SI CHECKLIST.

**SPECIAL INSPECTION CHECKLIST**

INSPECTION DOCUMENT	DESCRIPTION	INSPECTION TESTING REQUIRED	RESPONSIBILITY	SI REVIEW REQUIRED			INSPECTION FREQUENCY	
				PRE CX	DURING CX	POST CX	PERIODIC	CONTINUOUS
SPECIAL INSPECTION FIELD WORK & REPORT	DOCUMENTATION AND SITE VISIT CONDUCTED BY AN ATC APPROVED SPECIAL INSPECTOR AS REQUIRED BY ATC AND OTHER AUTHORITIES HAVING JURISDICTION. INSPECTION PARAMETERS TO FOLLOW ATC'S STANDARD SPECIFICATION FOR WIRELESS TOWER SITES.	✓	SI			✓		
ENGINEERING ASSEMBLY DRAWINGS	GC SHALL SUBMIT DRAWINGS TO SI FOR INCLUSION IN SI REPORT	✓	GC	✓				
FABRICATED MATERIAL VERIFICATION & INSPECTION	MTR AND OR MILL CERTIFICATIONS FOR SUPPLIED MATERIALS GC SHALL SUPPLY SI WITH REPORTS TO BE INCLUDED IN SI REPORT WHEN REQUIRED BY ATC	✓	SI	✓				
CERTIFIED WELD INSPECTION	INSPECTION AND REPORT OF STRUCTURAL WELDING PERFORMED DURING PROJECT COMPLETED BY A CWI AND INCLUDED WITHIN SI REPORT		GC / TA					
FOUNDATION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF FOUNDATION EXCAVATION, REBAR PLACEMENT, CASING/SHORING/FORMING PLACEMENT, AND ANCHOR TEMPLATE AND ANCHOR PLACEMENT - TO BE SI APPROVED PRIOR TO CONCRETE POUR AND DOCUMENTED IN THE SI REPORT		SI					
ANCHOR, ROCK ANCHOR OR HELICAL PULL-OUT TEST	PULL TESTING OF INSTALLED ANCHORS TO BE COMPLETED AND DOCUMENTED IN SI REPORT		GC / TA					
CONCRETE INSPECTION & VERIFICATION	CONCRETE MIX DESIGN, SLUMP TEST, COMPRESSIVE TESTING, AND SAMPLE GATHERING TECHNIQUES ARE TO BE PROVIDED FOR INCLUSION IN THE SI REPORT. SI SHALL VERIFY CONCRETE PLACEMENT AS REQUIRED BY THE DESIGN DOCUMENTS (INSPECTION FREQUENCY IS MARKED CONTINUOUS)		GC / TA					
DYWIDAG PLACEMENT/ANCHOR BOLT EMBEDMENT - EPOXY/GROUT INSTALL	ANCHOR/BAR EMBEDMENT, HOLE SIZE, EPOXY/GROUT TYPE, INSTALLATION TEMPERATURE AND INSTALLATION SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT		GC / SI					
BASE PLATE GROUT INSPECTION & VERIFICATION	BASE PLATE GROUTING TYPE AND PLACEMENT SHALL BE CONFIRMED BY THE SI AND INCLUDED IN THE SI REPORT		GC / SI					
EARTHWORK INSPECTION & VERIFICATION	EXCAVATION, FILL, SLOPE, GRADE AND OTHER EARTHWORK REQUIREMENTS PER PLANS SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT		GC / TA					
COMPACTION VERIFICATION	CONTRACTOR SHALL PROVIDE AN INDEPENDENT THIRD PARTY CERTIFIED INSPECTION WHICH PROVIDES TEST RESULTS FOR COMPACTION TEST OF SOILS IN PLACE TO ASTM STANDARDS.		GC / TA					
GROUND TESTING & VERIFICATION	GC SHALL PROVIDE DOCUMENTATION SHOWING THAT THE GROUNDING SYSTEM SHALL HAVE A MEASURED RESISTANCE TO THE GROUND OF NOT MORE THAN THE RECOMMENDED 10 OHMS. PER THE ATC CONSTRUCTION SPECIFICATION UNDER SECTION 2.15 THIS DOCUMENTATION MUST BE AN INDEPENDENT CERTIFICATION.		GC					
STEEL CONSTRUCTION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF STEEL CONSTRUCTION TO BE PERFORMED BY THE SI. INSPECTION TO INCLUDE VERIFICATION OF NEW CONSTRUCTION OR MODIFICATION OF EXISTING CONSTRUCTION PER ENGINEERED PLANS. DETAILED VERIFICATION SHALL BE INCLUDED IN SI REPORT.	✓	SI			✓	✓	
ON-SITE COLD GALVANIZING VERIFICATION	SI SHALL VERIFY WITH GC ALL COLD GALVANIZATION TYPE AND APPLICATION AND INCLUDE SUMMARY IN SI REPORT	✓	GC			✓	✓	
GUY WIRE TENSIONING & TOWER ALIGNMENT REPORT	GC SHALL PROVIDE SI EVIDENCE OF PROPER GUY TENSIONING AND TOWER PLUMB PER PLANS. SI SHALL VERIFY AND INCLUDE PLUMB AND TENSION REPORTING IN SI REPORT.		GC					
GC AS-BUILT DRAWINGS WITH CONSTRUCTION RED-LINES	GC SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO SI FOR APPROVAL/REVIEW AND INCLUSION IN SI REPORT	✓	GC			✓		
SI AS-BUILT DRAWINGS WITH INSPECTION RED-LINES (AS REQUIRED)	SI SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS WITHIN SI REPORT	✓	SI			✓		
TIA INSPECTION	SI SHALL COMPLETE TIA INSPECTION AND PROVIDE SEPARATE TIA INSPECTION DOCUMENTATION TO ATC CM		SI					
PHOTOGRAPHS	PHOTOGRAPHIC EVIDENCE OF SPECIAL INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE SI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN SI REPORT.	✓	GC / SI			✓		

NOTE: SPECIAL INSPECTIONS ARE INTENDED TO BE A COLLABORATIVE EFFORT BETWEEN GC AND SI. WHENEVER POSSIBLE GC IS TO PROVIDE SI WITH PHOTOGRAPHIC OR OTHER ACCEPTABLE EVIDENCE OF PROPER INSTALLATION IF PERIODIC INSPECTION FREQUENCY IS ACCEPTABLE. THE GC AND SI SHALL WORK TO COMPILE EVIDENCE OF PROPER CONSTRUCTION AND LIMIT THE NUMBER OF SI SITE VISITS REQUIRED.

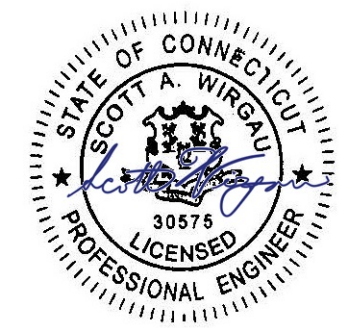
TABLE KEY:  
 SI - ATC APPROVED SPECIAL INSPECTOR  
 GC - GENERAL CONTRACTOR  
 TA - 3RD PARTY TESTING AGENCY  
 CX - CONSTRUCTION  
 CM - CONSTRUCTION MANAGER  
 ATC - AMERICAN TOWER CORPORATION



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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	01/05/23

ATC SITE NUMBER:  
 283420  
 ATC SITE NAME:  
 STONEYBROOK RD CT  
 CONNECTICUT  
 SITE ADDRESS:  
 23 STONYBROOK ROAD  
 STRATFORD, CT 06614



DRAWN BY:	CWB
APPROVED BY:	RDB
DATE DRAWN:	01/05/23
ATC JOB NO:	13682835_C6_06

**SPECIAL INSPECTION CHECKLIST**

SHEET NUMBER: **G-003**      REVISION: **0**

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# BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES
<b>#20 DYWIDAG REINFORCEMENT MATERIAL &amp; HARDWARE</b>								
3	3	DYD-20-ATR-PF	#20 ALL THREAD ROD (PER FT)	20'-0"	S-502	334.0	1002	GALVANIZED
21	21	W821-20	W8X21	1'-6"	S-502, Z-501	27.6	580	#20 T-BRACKET
6	6	W821-12U-S	TERMINATION WELDMENT	3'-6 3/4"	S-502	89.1	535	#20 T-BRACKET
84	88	NG-0625-0875-A490	NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490	----	----	----	----	ALLFASTENERS - 2NG2060
130	137	UB-580-3125	U-BOLT ASSEMBLIES FOR #20 ROD	----	----	----	----	GALVANIZED
16	21	#20SB	STEP BOLT WELDMENT	0'-7 1/4"	S-504	2.5	53	
1	1	----	STUD MOUNT CABLE GUIDE - 1/2"Ø	----	----	----	----	ALLFASTENERS - 14AFTRIM12
1	1	----	ROUND LEG INTERMEDIATE BRACKET	----	----	----	----	ALLFASTENERS - 14AFRHC12
<b>FLANGE BOLTS</b>								
8	9	BK-1000-425-A490-MAG	BOLT, 1"Ø A490 W/ HHN-LKW-FW, MAGNI 565 COATING	4 1/4"	----	----	----	ALLFASTENERS - 2STB01414A490M-A
<b>ADDITIONAL MATERIAL &amp; HARDWARE</b>								
66	69	NG-0938-1438-A490	NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490	----	----	----	----	ALLFASTENERS - 2NG2036
<b>TOTAL WEIGHT (lb)</b>						<b>2,170</b>		

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**A.T. ENGINEERING SERVICE, PLLC**  
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 SUITE 100  
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**CONNECTICUT**

SITE ADDRESS:  
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STRATFORD, CT 06614



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**BILL OF MATERIALS**

SHEET NUMBER: <b>G-004</b>	REVISION: <b>0</b>
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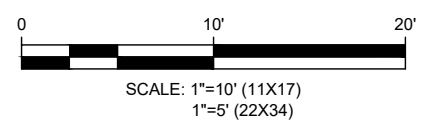
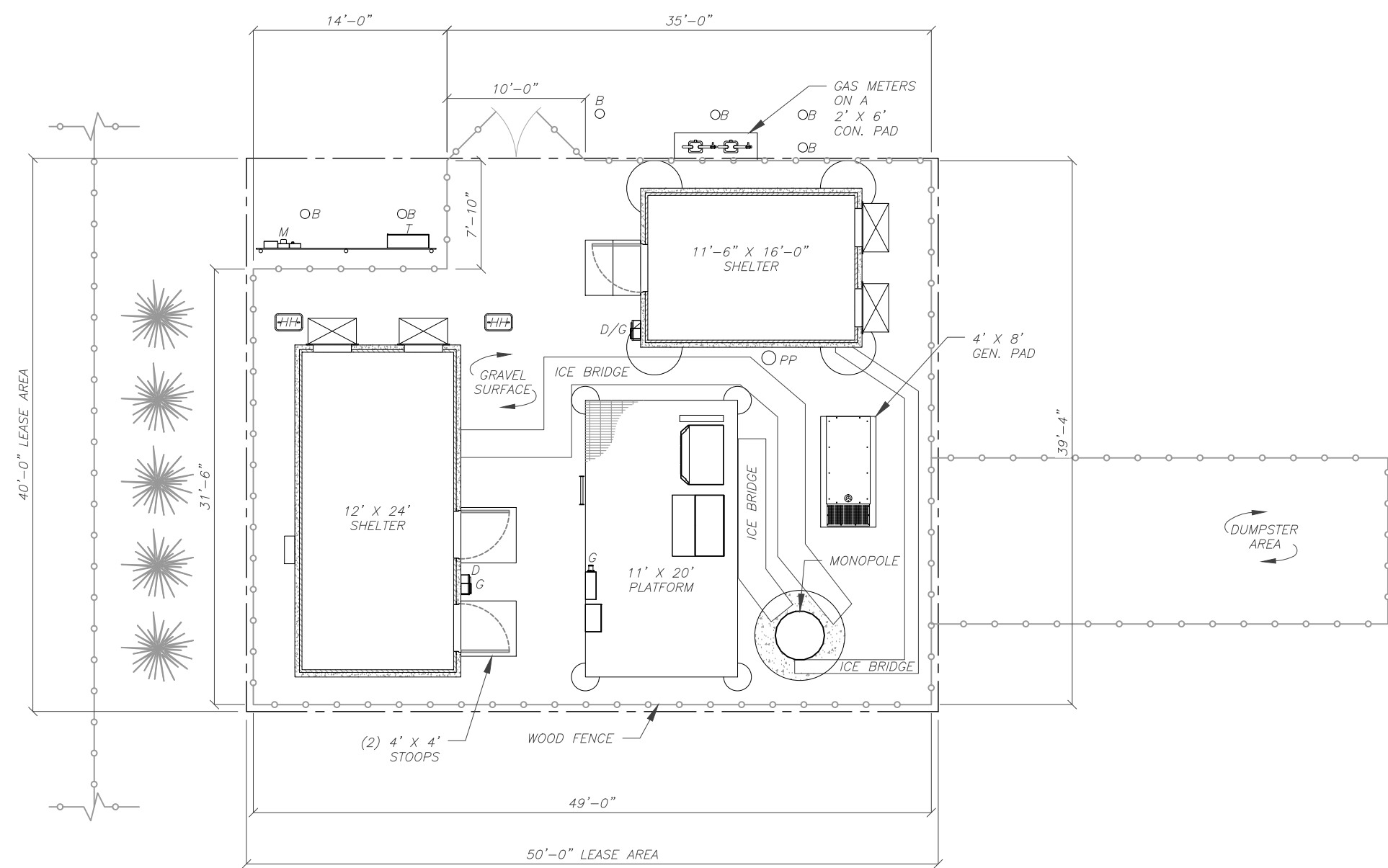
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**DETAILED SITE PLAN**

SHEET NUMBER:	REVISION:
<b>C-101</b>	<b>0</b>

**LEGEND**

⊗	GROUNDING TEST WELL
AV, A/V	AIR VENT
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
C	CABINET
CS	COAX SHROUD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
HFC	HYDROGEN FUEL CELL
HSM	HYDROGEN STORAGE MATERIAL
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
LPG	LIQUID PROPANE GAS
M	METER
OHW	OVERHEAD WIRE
P	POWER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
---	PROPERTY LINE
- - -	ADJACENT PROPERTY LINE
- · - · -	LEASE AREA
- · - · -	EASEMENT
○ ○ ○ ○	WOOD FENCE
□ □ □ □	WIRE FENCE
■ ■ ■ ■	METAL FENCE
— x —	GUARD RAIL
— x —	CHAINLINK FENCE
—	ROAD (DIRT)
—	ROAD (STONE)
—	ROAD (PAVED)



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AT&T MOBILITY  
 EL: 119.0' [PROPOSED]  
 EL: 117.0' [PROPOSED]  
 EL: 115.0' [PROPOSED]

EL: 119.7'  
 [TOP OF STRUCTURE]

SECTION 4

EL: 99.4'

SECTION 3

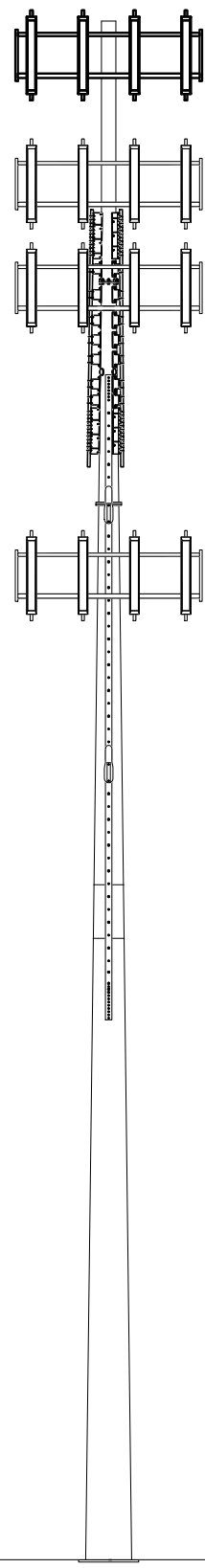
EL: 82.1'

SECTION 2

EL: 52.5'

SECTION 1

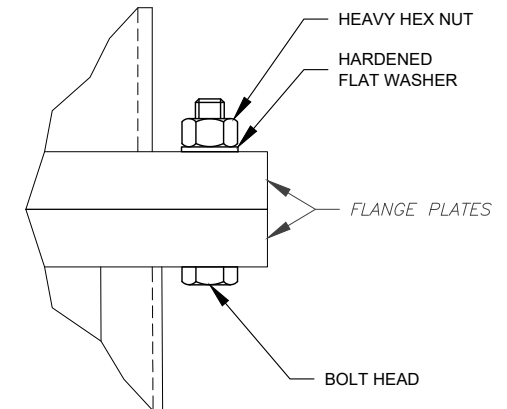
EL: 0.0'  
 [BOTTOM OF STRUCTURE]



REPLACE FLANGE BOLTS  
 [BK-1000-425-A490-MAG]  
 AT EL: 99.4'.  
 SEE FLANGE BOLT INSTALLATION DETAIL.

INSTALL (3) DYWIDAG  
 #20 ALL THREAD RODS  
 FROM EL: 85.0' TO 105.0'.  
 SEE SHEETS S-502 TO S-504  
 FOR INSTALLATION DETAILS.

INSTALL ADDITIONAL BOLTS TO REDUCE  
 STITCH BOLT SPACING AND INCREASE  
 TERMINATION BOLTS  
 [NG-0938-1438-A490]  
 FROM EL: 43.0'± TO 90.0'±.  
 SEE SHEET S-501 FOR INSTALLATION  
 DETAILS.



FLANGE BOLT INSTALLATION  
 TYPICAL DETAIL

ALL FLANGE BOLTS SHALL BE TIGHTENED BY  
 USING AISC/RCSC "TURN-OF-THE-NUT"  
 METHODOLOGY. SEE SHEET G-002 FOR DETAILS

TOWER ELEVATION VIEW

- NOTES:
1. PROPOSED AT&T MOBILITY COAX TO BE INSTALLED INSIDE MONOPOLE.
  2. BASE FLANGE WELD AND STIFFENER PLATE WELDS (WHEN PRESENT) ARE TO BE INSPECTED VISUALLY AND BY NDT METHODS BY A CERTIFIED WELD INSPECTOR WITH NDT LEVEL II CERTIFICATION. RESULTS ARE TO BE SENT TO [PMI@AMERICANTOWER.COM](mailto:PMI@AMERICANTOWER.COM).
  3. CONTACT AMERICAN TOWER FIELD OPERATIONS WHEN EXISTING EQUIPMENT INTERFERES WITH INSTALLATION OF MODIFICATIONS. ONCE APPROVED, EXISTING EQUIPMENT MAY BE TEMPORARILY MOVED DURING INSTALLATION & REINSTALLED TO THE ORIGINAL HEIGHT & LOCATION BY CONTRACTOR POST COMPLETION OF MODIFICATIONS.



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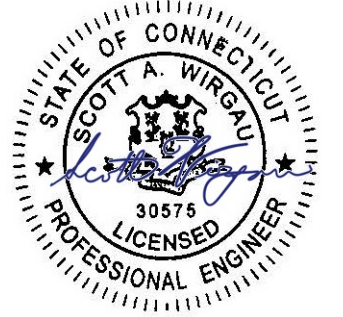
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MODIFICATION PROFILE

SHEET NUMBER:	REVISION:
S-201	0

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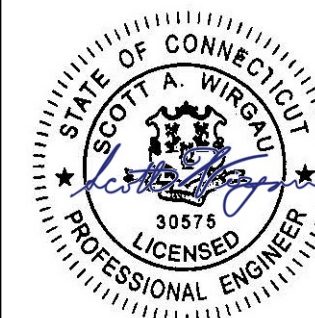
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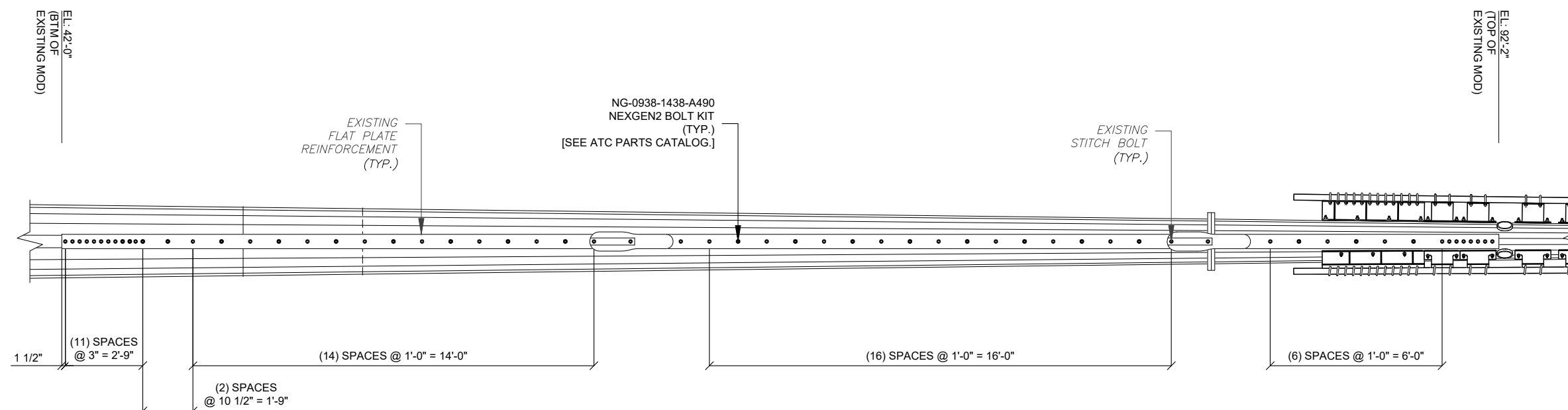
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**REINFORCEMENT  
 INSTALLATION DETAILS**

SHEET NUMBER:	REVISION:
<b>S-501</b>	<b>0</b>



**ELEVATION VIEW  
 ADDITIONAL BOLT SPACING DETAIL**



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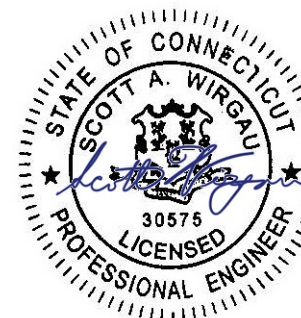
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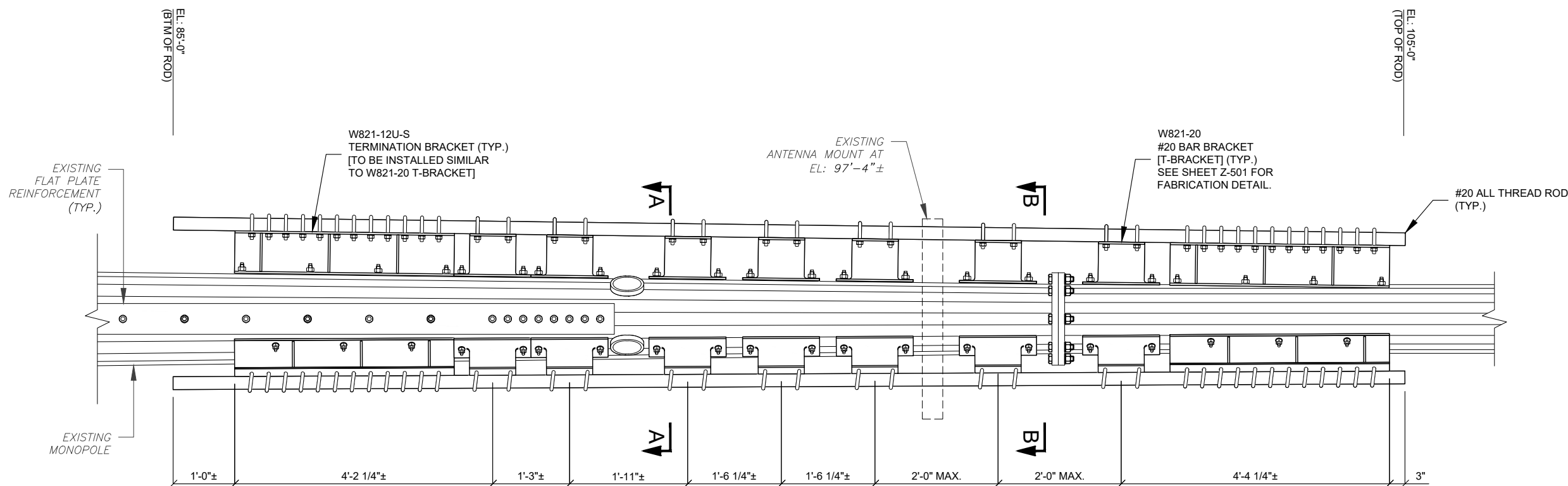


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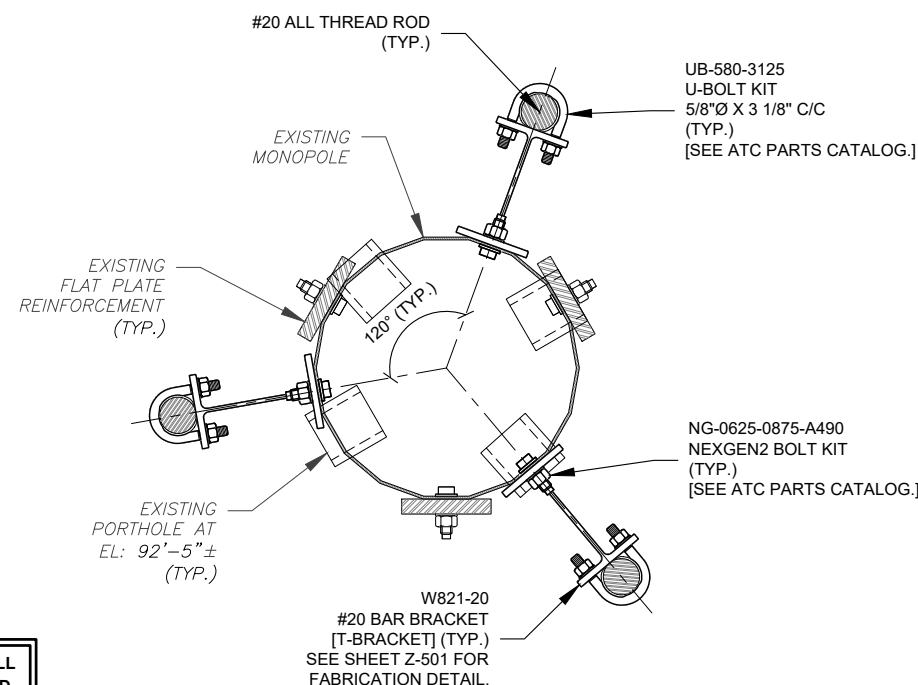
**REINFORCEMENT  
INSTALLATION DETAILS**

SHEET NUMBER:  
**S-502**

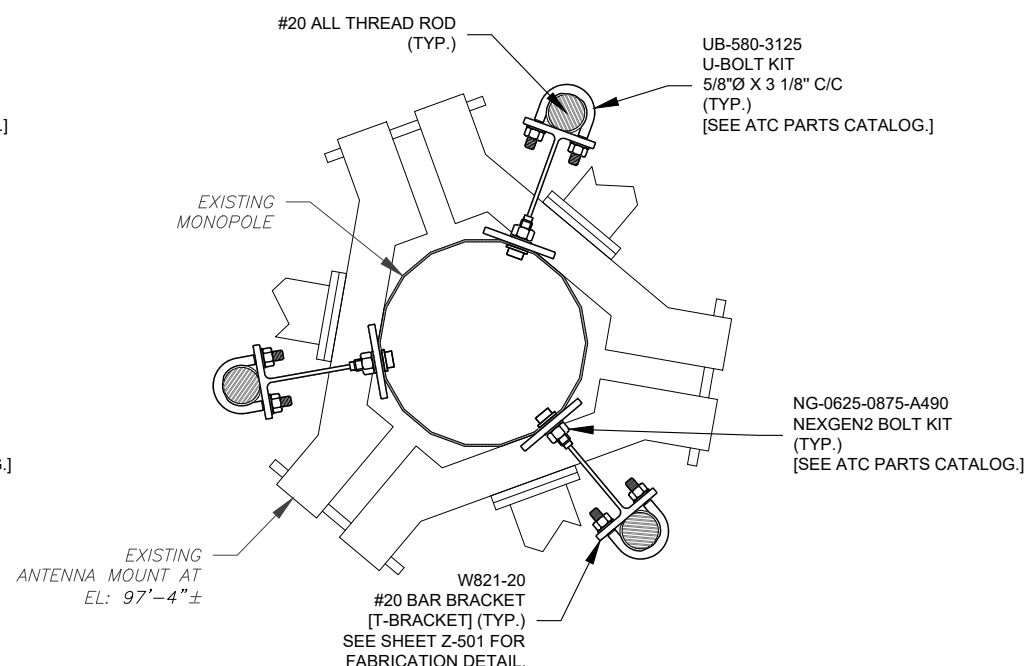
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**ELEVATION VIEW  
#20 BAR BRACKET SPACING DETAIL**



**SECTION "A-A"  
TYPICAL DETAIL**



**SECTION "B-B"  
TYPICAL DETAIL**

- NOTES:**
1. REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH THE NEW #20 ALL THREAD ROD REINFORCEMENTS. THE NEW STEP BOLTS SHALL BE ATTACHED TO THE #20 ALL THREAD RODS IN THE SAME APPROXIMATE LOCATION. SEE SHEET S-504 FOR INSTALLATION DETAILS.
  2. PLACE A BRACKET (W821-20) DIRECTLY ABOVE AND BELOW ANY EXISTING PORTHOLE AS REQUIRED.
  3. SEE SHEET S-503 FOR #20 ALL THREAD ROD BRACKET INSTALLATION DETAILS.
  4. NG-0938-1438-A490 NEXGEN2 BOLT KITS ARE SUPPLIED AS REQUIRED FOR BAR BRACKET CONNECTIONS THAT FALL WITHIN SLIP JOINT LOCATIONS.

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 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 COA: PEC.0001553

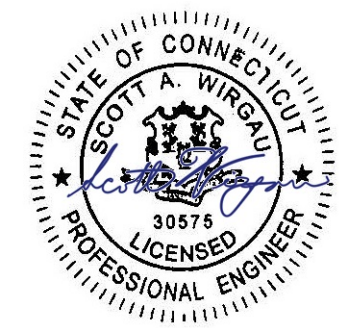
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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	01/05/23

ATC SITE NUMBER:  
 283420

ATC SITE NAME:  
 STONEYBROOK RD CT  
 CONNECTICUT

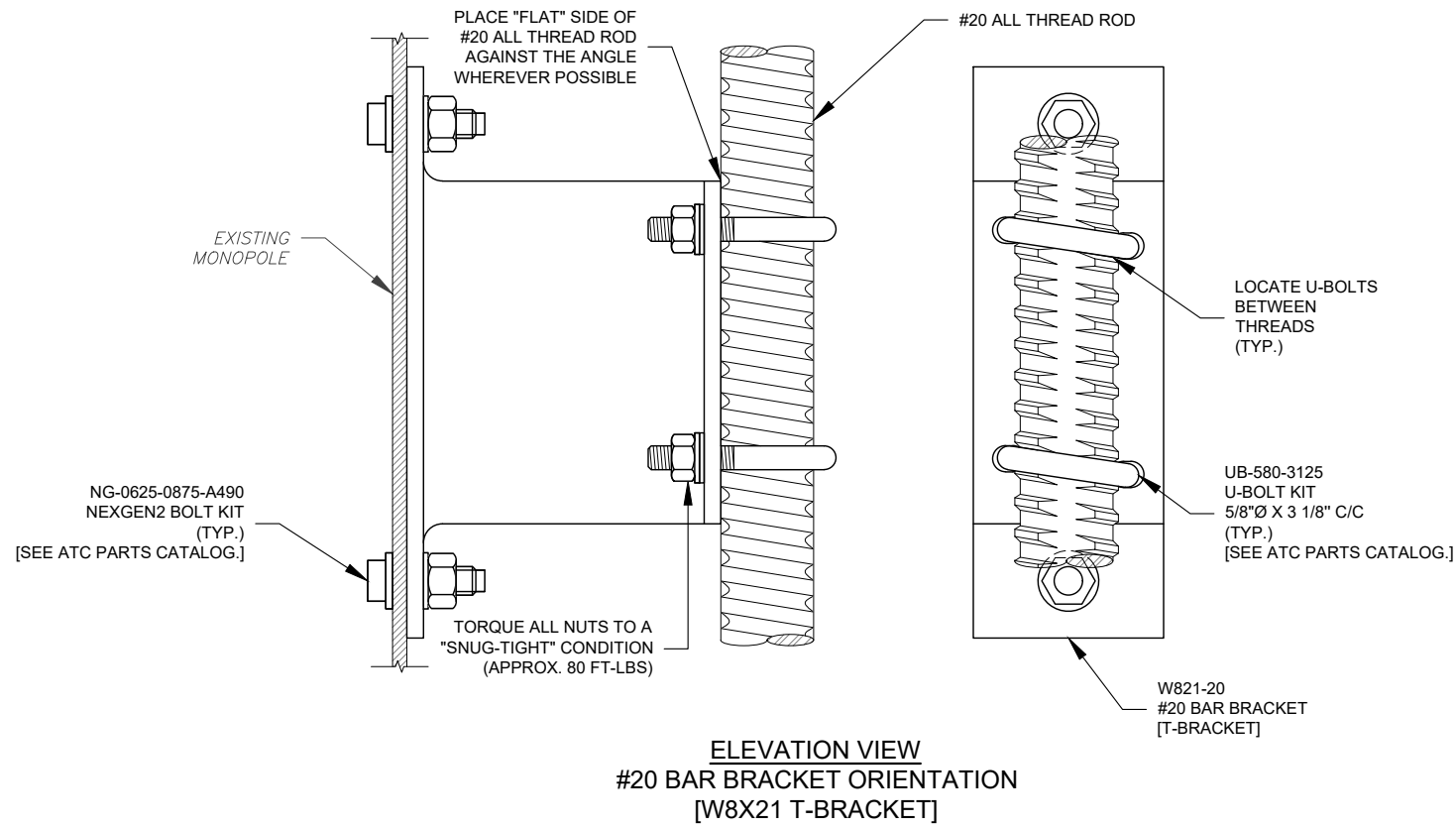
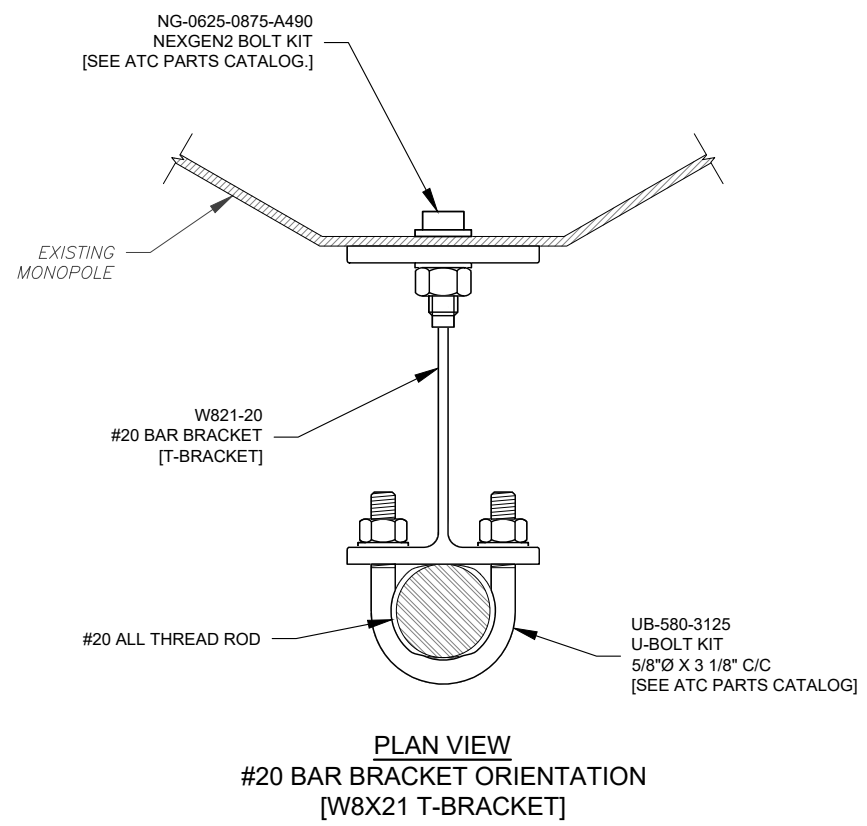
SITE ADDRESS:  
 23 STONYBROOK ROAD  
 STRATFORD, CT 06614



DRAWN BY:	CWB
APPROVED BY:	RDB
DATE DRAWN:	01/05/23
ATC JOB NO:	13682835_C6_06

**REINFORCEMENT  
 INSTALLATION DETAILS  
 (CONT'D)**

SHEET NUMBER: <b>S-503</b>	REVISION: <b>0</b>
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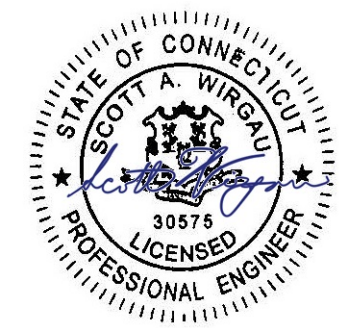
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0	FIRST ISSUE	CWB	01/05/23

ATC SITE NUMBER:  
 283420

ATC SITE NAME:  
 STONEYBROOK RD CT  
 CONNECTICUT

SITE ADDRESS:  
 23 STONYBROOK ROAD  
 STRATFORD, CT 06614

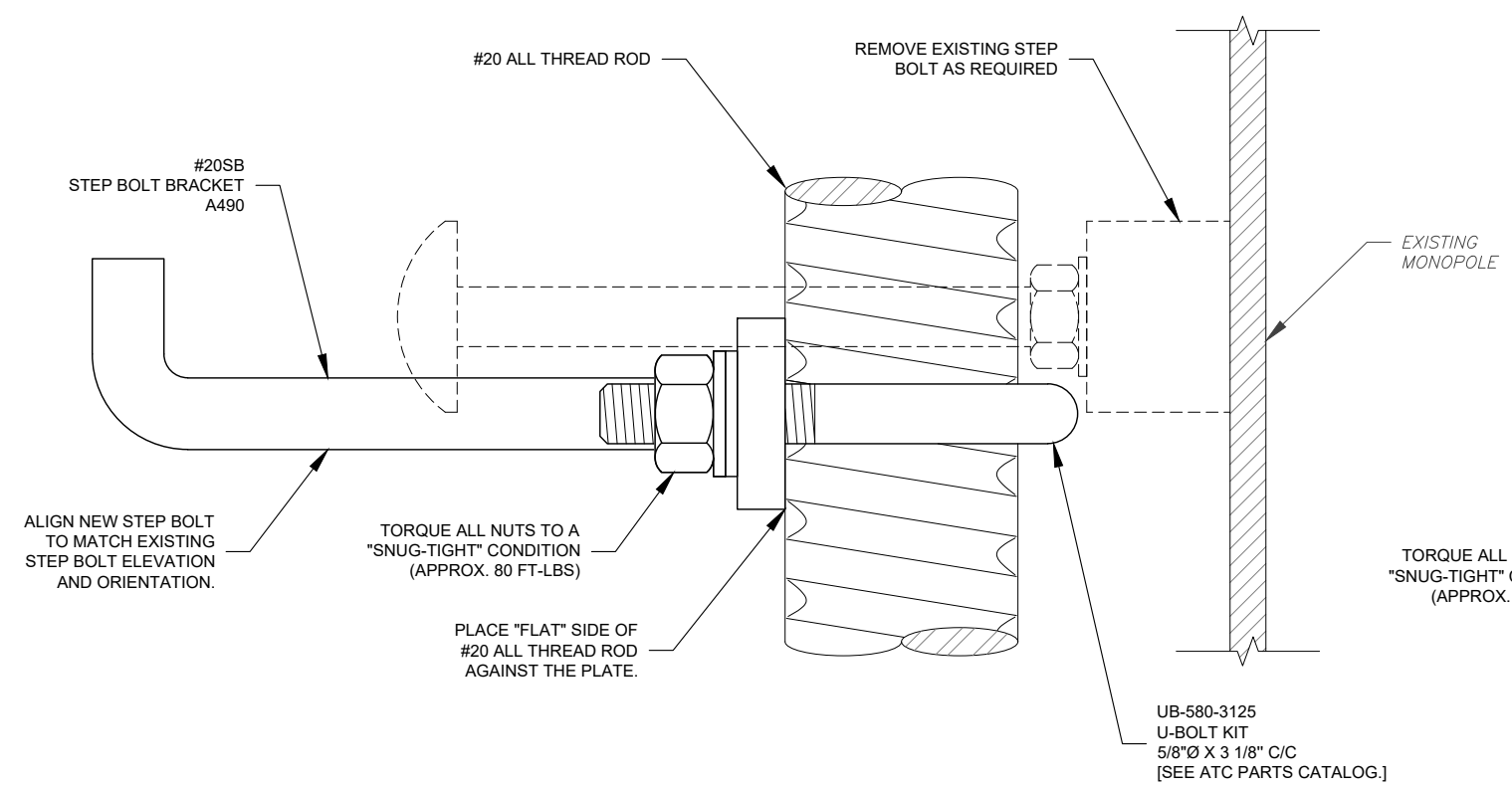


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APPROVED BY:	RDB
DATE DRAWN:	01/05/23
ATC JOB NO:	13682835_C6_06

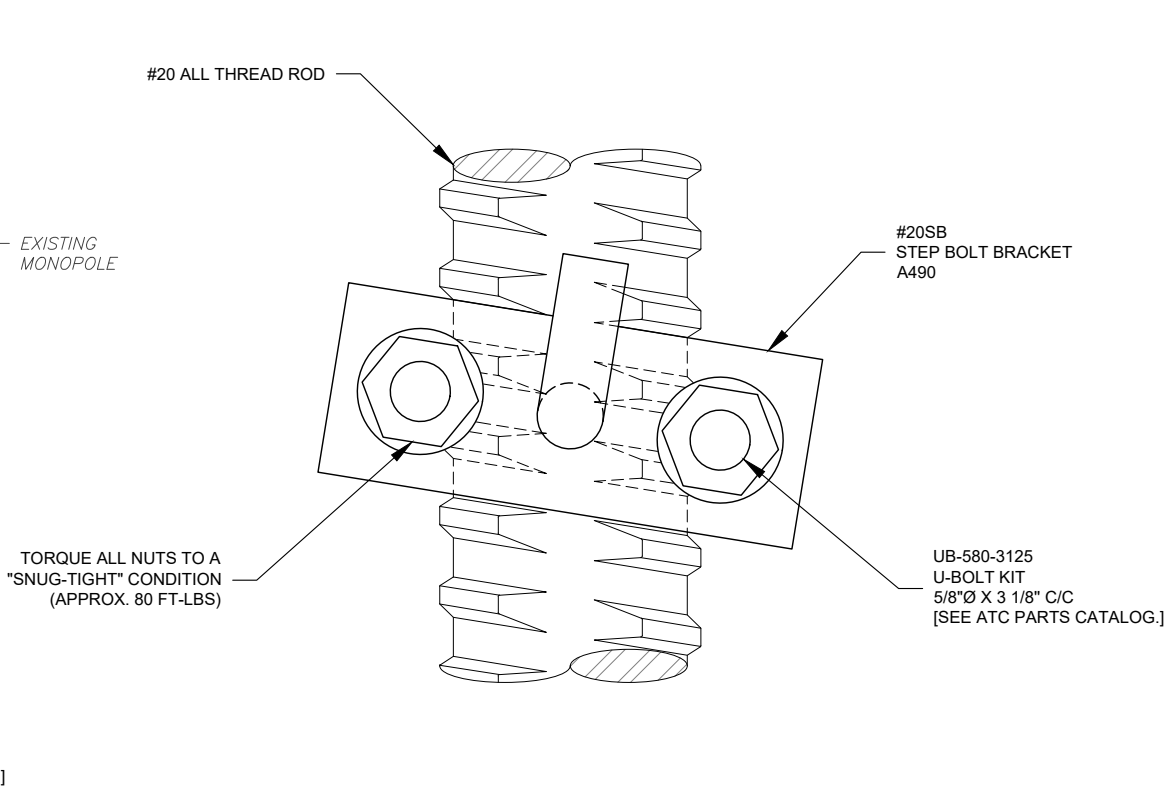
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 INSTALLATION DETAILS**

SHEET NUMBER:  
**S-504**

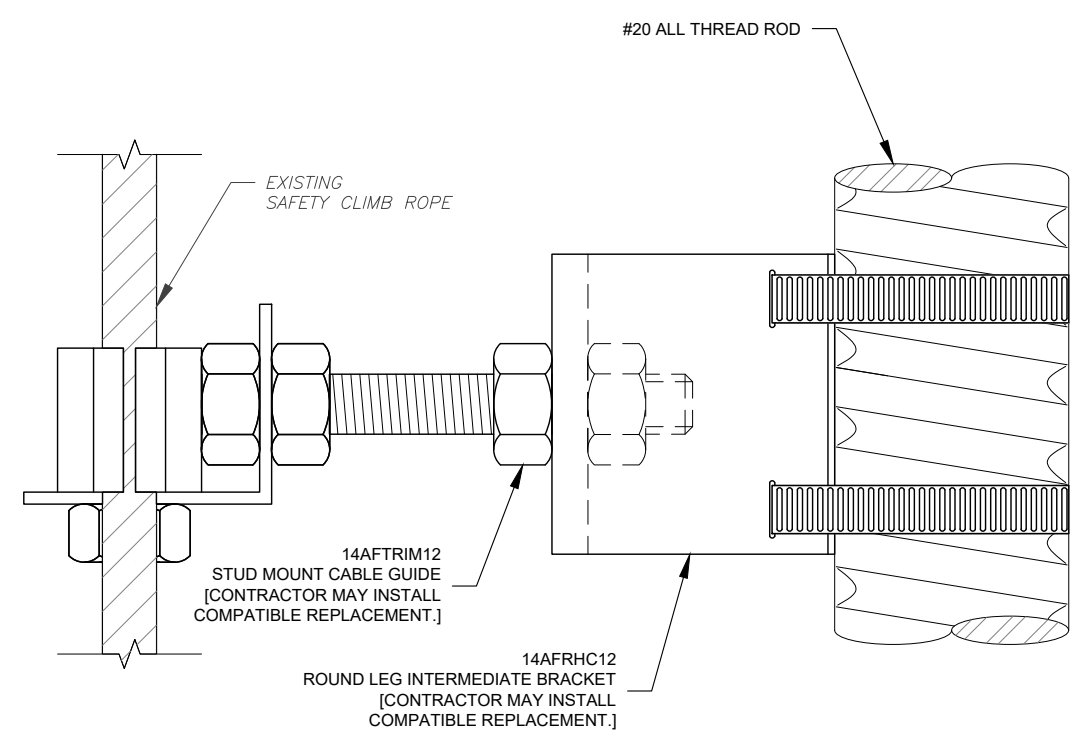
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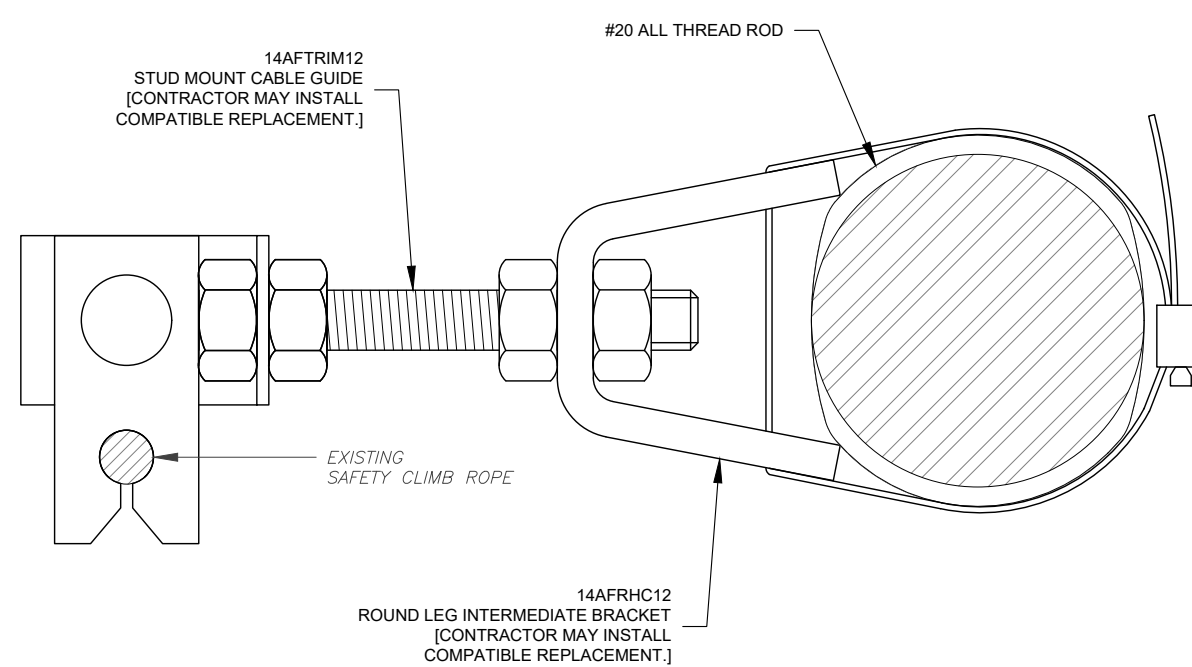
**#20SB INSTALLATION DETAILS  
 SIDE VIEW**



**#20SB INSTALLATION DETAILS  
 FRONT VIEW**



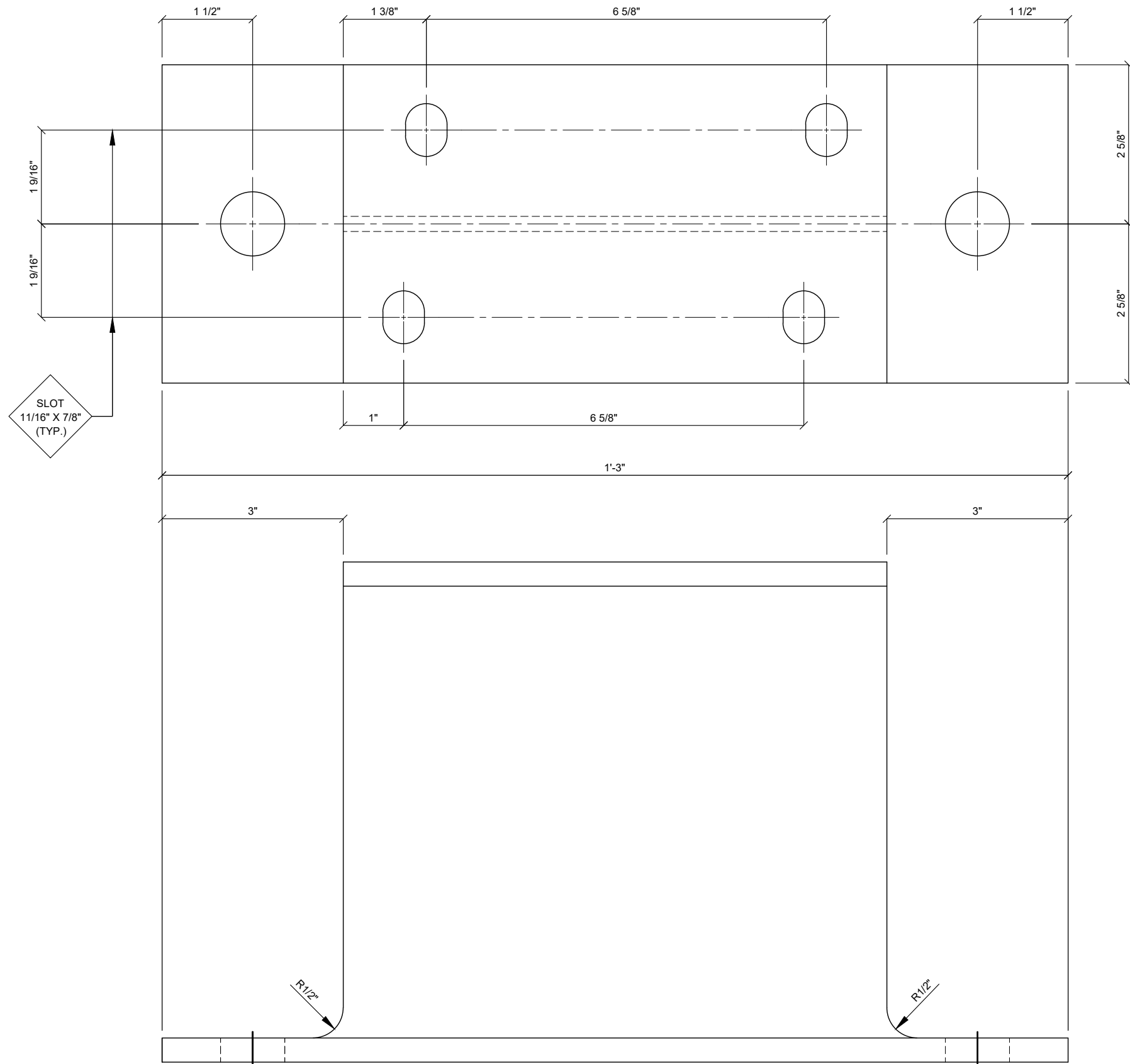
**SAFETY CLIMB CABLE GUIDE INSTALLATION  
 SIDE VIEW**



**SAFETY CLIMB CABLE GUIDE INSTALLATION  
 TOP VIEW**

- NOTES**
- STEP PEG SPACING IS NOT TO EXCEED 15" MAX. STAGGERED OR 30" MAX. ON ANY SINGLE SIDE OF THE DYWIDAG BAR.
  - SAFETY CLIMB CABLE GUIDE SPACING IS NOT TO EXCEED 20' MAX.

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**W821-20**  
**#20 BAR BRACKET**  
**[T-BRACKET]**

PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
W821-20	W8X21	1'-3"		26.3#	27.6#
MATERIAL: A36		FINISH: GALVANIZED		HOLES: 1-3/16"Ø U.N.O.	



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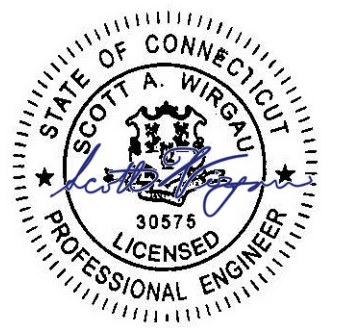
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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	01/05/23

ATC SITE NUMBER:  
**283420**

ATC SITE NAME:  
**STONEBROOK RD CT**  
**CONNECTICUT**

SITE ADDRESS:  
 23 STONYBROOK ROAD  
 STRATFORD, CT 06614



DRAWN BY:	CWB
APPROVED BY:	RDB
DATE DRAWN:	01/05/23
ATC JOB NO:	13682835_C6_06

**#20 BAR BRACKET**  
**[W8X21 T-BRACKET]**

SHEET NUMBER:  
**Z-501**

REVISION:  
**0**

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# Radio Frequency Emissions Analysis Report

March 16, 2022

American Tower on behalf of AT&T

**Site Name: STRATFORD STONYBROOK ROAD**  
**Site Address: 23 STONYBROOK ROAD, STRATFORD, CT 06614**  
**FA#: 12906923**  
**USID: 149436**

## Site Compliance Summary

---

<b>Compliance Status:</b>	Compliant
<b>Carrier MPE%</b>	5.41997300%
<b>of FCC General Population Allowable Limit:</b>	
<b>Composite MPE%</b>	5.42129800%
<b>of FCC General Population Allowable Limit:</b>	





March 16, 2022

AT&T New England  
Attn: John Benedetto, RF Manager  
5050 Cochituate Road Suite 550 - 13&14  
Framingham, MA 01701

Emissions Analysis for Site: **STRATFORD STONYBROOK ROAD**

Centerline Communications, LLC ("Centerline") was directed to analyze the proposed AT&T facility to be located on a monopole near **23 STONYBROOK ROAD, STRATFORD CT 06614** for the purpose of determining whether the emissions from the proposed facility are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The number of  $\mu\text{W}/\text{cm}^2$  calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limits for the 700 MHz (LTE) band is  $467 \mu\text{W}/\text{cm}^2$ , 800 (LTE) band is  $533 \mu\text{W}/\text{cm}^2$ , 850 (5G) band is  $567 \mu\text{W}/\text{cm}^2$ , 1900 MHz (PCS), 2100 (AWS), 2300 (WCS) and 5 GHz (B46) bands is  $1000 \mu\text{W}/\text{cm}^2$ .

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.



## Calculations

Calculations were performed for the proposed facility using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing focused omnidirectional antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. This is a very conservative estimate since the gain reduction in actual applications is typically greater than 10 dB in the direction of ground immediately surrounding the facility. Real world emissions values from this facility are expected to be lower than values listed in this report at ground level. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

RRH #	Frequency Band	Technology	Channel Count	Transmit Power per Channel (W)
1	700	LTE	2	30
2	700	LTE	4	30
3	1900	LTE	4	30
4	2100	AWS	4	45
5	3700	5G C-Band	1	108.4
6	3450	5G DoD	1	54.2
6	3450	5G DoD	1	54.2
7	700	LTE	4	30
7	850	5G	4	30
8	2300	WCS	4	18

*Table 1: Channel Data Table*



The following antennas listed in Table 2 were used in the modeling for transmission in the 700 MHz (LTE), 850 MHz (5G), 1900 MHz (PCS), 2100 MHz (AWS), 2300 MHz (WCS) and 5 GHz (Band 46) frequency bands. This is based on information from the carrier with regard to anticipated antenna selection.

Sector	Antenna Number	Make / Model	Centerline (ft)
A	1	QUINTEL QD6616-7 V1	117.4
A	1	QUINTEL QD6616-7 V1	117.4
A	1	QUINTEL QD6616-7 V1	117.4
A	1	QUINTEL QD6616-7 V1	117.4
A	2	ERICSSON AIR6449	115.2
A	3	ERICSSON AIR6419	118.5
A	3	ERICSSON AIR6419	118.5
A	4	CCI DMP65R-BU6D	117.4
A	4	CCI DMP65R-BU6D	117.4
A	4	CCI DMP65R-BU6D	117.4
B	5	QUINTEL QD6616-7 V1	117.4
B	5	QUINTEL QD6616-7 V1	117.4
B	5	QUINTEL QD6616-7 V1	117.4
B	5	QUINTEL QD6616-7 V1	117.4
B	6	ERICSSON AIR6449	115.2
B	7	ERICSSON AIR6419	118.5
B	7	ERICSSON AIR6419	118.5
B	8	JMA MX10FRO440-xx	117.4
B	8	JMA MX10FRO440-xx	117.4
B	8	CCI DMP65R-BU6D	117.4
G	9	QUINTEL QD6616-7 V1	117.4
G	9	QUINTEL QD6616-7 V1	117.4
G	9	QUINTEL QD6616-7 V1	117.4
G	9	QUINTEL QD6616-7 V1	117.4
G	10	ERICSSON AIR6449	115.2
G	11	ERICSSON AIR6419	118.5
G	11	ERICSSON AIR6419	118.5
G	12	CCI DMP65R-BU6D	117.4
G	12	CCI DMP65R-BU6D	117.4
G	12	CCI DMP65R-BU6D	117.4

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.



## Results

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

ID	Make / Model	Frequency Band	Gain (dBd)	Centerline (ft)	Channel Count	TX Power (W)	ERP (W)	MPE %
AT&T A 1	QUINTEL QD6616-7 V1	700	11.9711	117.4	2	30	944.6289	0.000011000
AT&T A 1	QUINTEL QD6616-7 V1	700	11.9711	117.4	4	30	1889.2579	0.000022000
AT&T A 1	QUINTEL QD6616-7 V1	1900	15.1762	117.4	4	30	3951.8572	0.000012000
AT&T A 1	QUINTEL QD6616-7 V1	2100	15.3631	117.4	4	45	6188.4588	0.000018000
AT&T A 2	ERICSSON AIR6449	3700	23.55	115.2	1	108.4	24548.7443	0.000152000
AT&T A 3	ERICSSON AIR6419	3450	22.85	118.5	1	54.2	10447.1850	1.805159000
AT&T A 3	ERICSSON AIR6419	3450	22.85	118.5	1	54.2	10408.6345	0.007735000
AT&T A 4	CCI DMP65R-BU6D	700	11.75	117.4	4	30	1795.4828	0.000023000
AT&T A 4	CCI DMP65R-BU6D	850	11.45	117.4	4	30	1675.6420	0.000016000
AT&T A 4	CCI DMP65R-BU6D	2300	15.25	117.4	4	18	2411.7512	0.000009000
AT&T B 5	QUINTEL QD6616-7 V1	700	11.9711	117.4	2	30	944.6289	0.000022000
AT&T B 5	QUINTEL QD6616-7 V1	700	11.9711	117.4	4	30	1889.2579	0.000044000
AT&T B 5	QUINTEL QD6616-7 V1	1900	15.1762	117.4	4	30	3951.8572	0.000023000
AT&T B 5	QUINTEL QD6616-7 V1	2100	15.3631	117.4	4	45	6188.4588	0.000037000
AT&T B 6	ERICSSON AIR6449	3700	23.55	115.2	1	108.4	24548.7443	0.000205000
AT&T B 7	ERICSSON AIR6419	3450	22.85	118.5	1	54.2	10447.1850	0.901401000
AT&T B 7	ERICSSON AIR6419	3450	22.85	118.5	1	54.2	10408.6345	0.901401000
AT&T B 8	JMA MX10FRO440-xx	700	12.45	117.4	4	30	2109.5083	0.000312000
AT&T B 8	JMA MX10FRO440-xx	850	12.85	117.4	4	30	2313.0299	0.000102000
AT&T B 8	CCI DMP65R-BU6D	2300	15.25	117.4	4	18	2411.7512	0.000016000
AT&T G 9	QUINTEL QD6616-7 V1	700	11.9711	117.4	2	30	944.6289	0.000020000
AT&T G 9	QUINTEL QD6616-7 V1	700	11.9711	117.4	4	30	1889.2579	0.000041000
AT&T G 9	QUINTEL QD6616-7 V1	1900	15.1762	117.4	4	30	3951.8572	0.000022000
AT&T G 9	QUINTEL QD6616-7 V1	2100	15.3631	117.4	4	45	6188.4588	0.000038000
AT&T G 10	ERICSSON AIR6449	3700	23.55	115.2	1	108.4	24548.7443	0.000200000
AT&T G 11	ERICSSON AIR6419	3450	22.85	118.5	1	54.2	10447.1850	0.901421000
AT&T G 11	ERICSSON AIR6419	3450	22.85	118.5	1	54.2	10408.6345	0.901421000
AT&T G 12	CCI DMP65R-BU6D	700	11.75	117.4	4	30	1795.4828	0.000044000
AT&T G 12	CCI DMP65R-BU6D	850	11.45	117.4	4	30	1675.6420	0.000030000
AT&T G 12	CCI DMP65R-BU6D	2300	15.25	117.4	4	18	2411.7512	0.000016000
<b>AT&amp;T MPE%</b>								<b>5.41997300 %</b>

Table 3: AT&T Antenna Inventory & Power Level



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 4* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s).

Frequency Band	Technology	Centerline (ft.)	# of Channels	ERP W (Per Channel)	Total Power Density ( $\mu\text{W}/\text{cm}^2$ )	Allowable MPE ( $\mu\text{W}/\text{cm}^2$ )	MPE %
700	LTE	117.4	2	472.3144741	0.0000520	467	0.00001100
700	LTE	117.4	4	472.3144741	0.0001040	467	0.00002200
1900	LTE	117.4	4	987.9643069	0.0001170	1000	0.00001200
2100	AWS	117.4	4	1547.114704	0.0001820	1000	0.00001800
3700	5G C-Band	115.2	1	24548.74429	0.0015200	1000	0.00015200
3450	5G DoD	118.5	1	10447.18503	18.0515940	1000	1.80515900
3450	5G DoD	118.5	1	10408.63453	0.0773480	1000	0.00773500
700	LTE	117.4	4	448.8706968	0.0001090	467	0.00002300
850	5G	117.4	4	418.9105083	0.0000910	567	0.00001600
2300	WCS	117.4	4	602.9377905	0.0000890	1000	0.00000900
<b>Alpha MPE%</b>							<b>1.81315700</b>
700	LTE	117.4	2	472.3144741	0.0001020	467	0.00002200
700	LTE	117.4	4	472.3144741	0.0002040	467	0.00004400
1900	LTE	117.4	4	987.9643069	0.0002310	1000	0.00002300
2100	AWS	117.4	4	1547.114704	0.0003680	1000	0.00003700
3700	5G C-Band	115.2	1	24548.74429	0.0020530	1000	0.00020500
3450	5G DoD	118.5	1	10447.18503	9.0140080	1000	0.90140100
3450	5G DoD	118.5	1	10408.63453	9.0140080	1000	0.90140100
700	LTE	117.4	4	527.3770842	0.0014540	467	0.00031200
850	5G	117.4	4	578.257474	0.0005810	567	0.00010200
2300	WCS	117.4	4	602.9377905	0.0001620	1000	0.00001600
<b>Beta MPE%</b>							<b>1.80356300</b>
700	LTE	117.4	2	472.3144741	0.0000950	467	0.00002000
700	LTE	117.4	4	472.3144741	0.0001900	467	0.00004100
1900	LTE	117.4	4	987.9643069	0.0002210	1000	0.00002200
2100	AWS	117.4	4	1547.114704	0.0003760	1000	0.00003800
3700	5G C-Band	115.2	1	24548.74429	0.0020050	1000	0.00020000
3450	5G DoD	118.5	1	10447.18503	9.0142140	1000	0.90142100
3450	5G DoD	118.5	1	10408.63453	9.0142140	1000	0.90142100
700	LTE	117.4	4	448.8706968	0.0002040	467	0.00004400
850	5G	117.4	4	418.9105083	0.0001710	567	0.00003000



2300	WCS	117.4	4	602.9377905	0.0001610	1000	0.00001600	
							<b>Gamma MPE%</b>	<b>1.80325300</b>
							<b>AT&amp;T MPE%</b>	<b>5.41997300 %</b>

Table 4: AT&T Maximum Sector MPE Power Values



## Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the AT&T facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Carrier	Predicted MPE %
AT&T	5.41997300%
T-Mobile	0.00039000%
Sprint	0.00018800%
Verizon	0.00074700%
<b>Composite</b>	<b>5.42129800%</b>

*Table 5: Total Predicted MPE(%) by Carrier*

## Compliance Status:

The anticipated composite MPE value for this site assuming all carriers present is **5.42129800%** of the allowable FCC established general population limit sampled at the ground level.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Katrina Styx  
RF Compliance Consultant  
**Centerline Communications, LLC**  
750 West Center St. Suite 301  
West Bridgewater, MA 02379

A handwritten signature in black ink, appearing to read 'Katrina Styx', is positioned below the printed name and contact information.



**AMERICAN TOWER®**  
CORPORATION

## Post Modification Structural Analysis Report

**Structure** : 119 ft Monopole  
**ATC Asset Name** : STONEYBROOK RD CT  
**ATC Asset Number** : 283420  
**Engineering Number** : 13682835\_C4\_08  
**Proposed Carrier** : AT&T MOBILITY  
**Carrier Site Name** : MRCTB051448  
**Carrier Site Number** : CTL02381  
**Site Location** : 23 Stonybrook Road  
Stratford, CT 06614-3715  
41.2033, -73.1486  
**County** : Fairfield  
**Date** : January 20, 2023  
**Max Usage** : 96%  
**Analysis Result** : Pass

Prepared By:

Thomas Pham  
Structural Engineer II

Reviewed



**COA: PEC.0001553**





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## Introduction

The purpose of this report is to summarize results of a post-modification structural analysis performed on the 119 ft Monopole tower to reflect the change in loading by AT&T MOBILITY.

## Supporting Documents

<b>Tower Drawing:</b>	Valmont Order #20380-10, dated July 30, 2010
<b>Foundation Drawing:</b>	Valmont Order #20380-60, dated June 11, 2010
<b>Geotechnical Report:</b>	Terracon Project #J2105132, dated April 2, 2010
<b>Modification:</b>	TES Job #13142, dated November 12, 2014 ATC Project #13682835_C6_06, dated January 5, 2023 (Pending)

## Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

<b>Basic Wind Speed:</b>	119 mph (3-second gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-second gust) w/ 1.00" radial ice concurrent
<b>Code(s):</b>	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
<b>Exposure Category:</b>	B
<b>Risk Category:</b>	II
<b>Topographic Factor Procedure:</b>	Method 1
<b>Topographic Category:</b>	1
<b>Spectral Response:</b>	$S_s = 0.21, S_i = 0.05$
<b>Site Class:</b>	D - Stiff Soil - Default

*\*Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, ANNEX-S*

## Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report. If the pending modifications cited in the supporting documents table are not completed, the results of this analysis are no longer valid, and AT&T Mobility should contact American Tower's Site Manager for further direction on how to proceed.

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

### Existing/Reserved Loading

Elev.*	Qty	Equipment	Lines	Carrier
107.0'	1	Raycap RDIDC-9181-PF-48	(1) 1.75" (44.5mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B604		
	3	Fujitsu TA08025-B605		
	3	JMA Wireless MX08FRO665-21		
	1	Platform with Handrails		
97.0'	3	Ericsson AIR32 B66Aa/B2a	(1) 1 1/4" (1.25"- 31.8mm) Fiber (2) 1 5/8" Hybriflex (12) 7/8" Coax	T-MOBILE
	3	Ericsson Air6449 B41		
	3	Ericsson RRUS 4415 B25		
	3	Ericsson Radio 4449 B71 B85A		
	3	RFS APXVAARR24_43-U-NA20		
	1	Platform with Handrails		
96.9'	3	Ericsson RRUS 01 B2 w/ Solar Shield	(2) 1 5/8" Hybriflex	VERIZON WIRELESS
77.0'	3	T-Arm		
	1	RFS DB-C1-12C-24AB-0Z		
	3	Samsung B2/B66A RRH-BR049		
	3	Samsung B5/B13 RRH-BR04C		
	3	Samsung MT6407-77A		
	6	Quintel QS6656-5D		

(If table breaks across pages, please see previous page for data in merged cells)

\*Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

### Proposed Carrier Final Loading

Elev.*	Qty	Equipment	Lines	Carrier
119.0'	3	Ericsson Air 6449 B77D	-	AT&T MOBILITY
117.0'	1	Commscope WCS-IMFQ-AMT	(1) 0.40" (10.3mm) Fiber (3) 0.82" (20.8mm) 8 AWG 6 (4) 0.92" (23.4mm) Cable (1) 2" conduit	AT&T MOBILITY
	1	Raycap DC9-48-60-24-8C-EV		
	1	Raycap DC9-48-60-24-8C-EV		
	3	CCI DMP65R-BU6DA		
	3	Ericsson RRUS 32 B2		
	3	Ericsson RRUS 4426 B66		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14		
	3	Ericsson RRUS E2 B29		
	3	Ericsson RRUS-32 B30 (77 lbs)		
	3	Quintel QD6616-7		
	1	Platform with Handrails		
115.0'	3	Ericsson AIR 6419 B77G	-	AT&T MOBILITY

(If table breaks across pages, please see previous page for data in merged cells)

\*Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines inside the pole shaft.

### Structure Usages

Structural Component	Usage	Pass/Fail
Anchor Rods	57%	Pass
Base Plate	32%	Pass
Shaft	90%	Pass
Flange Bolts	16%	Pass
Flange Plates	71%	Pass
Reinforcement	96%	Pass

### Foundation Reactions & Usages

Reaction Component	Analysis Reactions	Usage
Moment (k-ft)	1918.2	52%
Axial (k)	40.1	5%
Shear (k)	19.3	27%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

### Antenna Deflection, Twist, and Sway

Elev.	Antenna	Carrier	Deflection	Twist	Sway [Rotation]
119.0'	Ericsson Air 6449 B77D	AT&T MOBILITY	2.242'	N/A	2.180°
117.0'	Quintel QD6616-7	AT&T MOBILITY	2.165'	N/A	2.180°
	CCI DMP65R-BU6DA				
	Raycap DC9-48-60-24-8C-EV				
	Ericsson RRUS E2 B29				
115.0'	Ericsson AIR 6419 B77G	AT&T MOBILITY	2.089'	N/A	2.180°

*\*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H*

## **Standard Conditions**

All engineering services performed by A.T. Engineering Services LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Services LLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Services LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

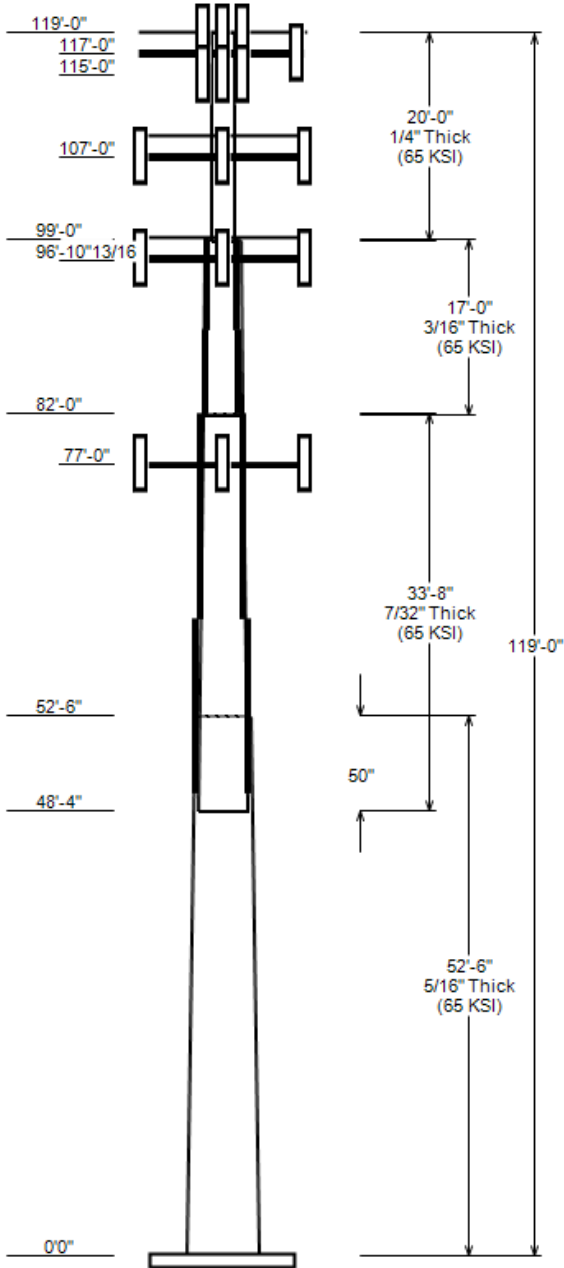
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

**ANALYSIS PARAMETERS**

Nominal Wind: 116 mph	Ice Wind: 49 mph w/ 0.85" ice	Service Wind: 60 mph
Risk Category: II	Exposure: B	S <sub>z</sub> : 0.207 S <sub>s</sub> : 0.054
Topo Category: 1	Topo Factor: Method 1	Topo Feature:
Structure Height: 119 ft	Base Elevation: 0.00 ft	Structure Type: Custom
Base Diameter: 42 in	Base Rotation: 0°	Taper: 0.3000 (in/ft)

**POLE SECTION PROPERTIES**

Section	Length (ft)	Flat Diameter (in)		Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
		Top	Bottom					
1	52.500	26.25	42.00	0.312		0.000	18 Sides	65
2	33.667	17.84	27.94	0.219	Slip Joint	50.000	18 Sides	65
3	17.000	12.74	17.84	0.188	Butt Joint	0.000	18 Sides	65
4	20.000	12.56	12.56	0.250	Butt Joint	0.000	18 Sides	65



**DISCRETE APPURTENANCE**

Elev (ft)	Description
119.0	(3) Ericsson Air 6449 B77D
117.0	(1) Commscope WCS-IMFQ-AMT
117.0	(3) Ericsson RRUS 4426 B66
117.0	(3) Ericsson RRUS 4478 B14
117.0	(3) Ericsson RRUS 4449 B5, B12
117.0	(3) Ericsson RRUS 32 B2
117.0	(3) Ericsson RRUS E2 B29
117.0	(3) Ericsson RRUS-32 B30 (77 lbs)
117.0	(1) Raycap DC9-48-60-24-8C-EV
117.0	(1) Raycap DC9-48-60-24-8C-EV
117.0	(3) CCI DMP65R-BU6DA
117.0	(1) Generic Flat Platform with Han
117.0	(3) Quintel QD6616-7
115.0	(3) Ericsson AIR 6419 B77G
107.0	(1) Raycap RDIDC-9181-PF-48
107.0	(3) Fujitsu TA08025-B605
107.0	(3) Fujitsu TA08025-B604
107.0	(3) JMA Wireless MX08FRO665-21
107.0	(1) Generic Flat Platform with Han
97.0	(3) Ericsson Radio 4449 B71 B85A
97.0	(3) Ericsson RRUS 4415 B25
97.0	(3) Ericsson Air6449 B41
97.0	(3) Ericsson AIR32 B66Aa/B2a
97.0	(3) RFS APXVAARR24_43-U-NA20
97.0	(1) Generic Flat Platform with Han
96.9	(3) Ericsson RRUS 01 B2 w/ Solar S
77.0	(3) Samsung B2/B66A RRH-BR049
77.0	(3) Samsung B5/B13 RRH-BR04C
77.0	(1) RFS DB-C1-12C-24AB-0Z
77.0	(3) Samsung MT6407-77A
77.0	(6) Quintel QS6656-5D
77.0	(3) Generic Round T-Arm

**LINEAR APPURTENANCE**

Elev To (ft)	Description
117.0	(1) 2" conduit
117.0	(1) 0.92" (23.4mm) Cable
117.0	(3) 0.92" (23.4mm) Cable
117.0	(3) 0.82" (20.8mm) 8 AWG 6
117.0	(1) 0.40" (10.3mm) Fiber
107.0	(1) 1.75" (44.5mm) Hybrid
105.0	(1) W8 Brackets for #20
105.0	(1) W8 Brackets for #20
105.0	(1) W8 Brackets for #20
105.0	(1) #20 w/ W Brackets
105.0	(1) #20 w/ W Brackets
105.0	(1) #20 w/ W Brackets
97.0	(6) 7/8" Coax
97.0	(2) 1 5/8" Hybriflex
97.0	(1) 1 1/4" (1.25" - 31.8mm) Fiber
92.0	(1) 1" Flat Plate
92.0	(1) 1" Flat Plate
92.0	(1) 1" Flat Plate
87.0	(6) 7/8" Coax
77.0	(2) 1 5/8" Hybriflex

**LOAD CASE KEY**

<b>1.2D + 1.0W</b>	115.99 mph Wind with No Ice
<b>0.9D + 1.0W</b>	115.99 mph Wind with No Ice (Reduc)
<b>1.2D + 1.0Di + 1.0Wi</b>	48.73 mph Wind with 0.85" Radial I
<b>1.2D + 1.0Ev + 1.0Eh</b>	Seismic
<b>0.9D - 1.0Ev + 1.0Eh</b>	Seismic (Reduced DL)
<b>1.0D + 1.0W</b>	60 mph Wind with No Ice

**GLOBAL BASE REACTIONS**

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	1918.22	40.10	19.30
0.9D + 1.0W	1868.96	30.06	19.27
1.2D + 1.0Di + 1.0Wi	477.06	50.77	4.83
1.2D + 1.0Ev + 1.0Eh	106.60	40.63	1.01
0.9D - 1.0Ev + 1.0Eh	103.12	27.95	1.01
1.0D + 1.0W	455.69	33.45	4.64

ANALYSIS PARAMETERS

<b>Location:</b>	Fairfield County,CT	<b>Height:</b>	119 ft
<b>Type and Shape:</b>	Custom, 18 Sides	<b>Base Diameter:</b>	42.00 in
<b>Manufacturer:</b>	Valmont	<b>Top Diameter:</b>	12.56 in
<b>K<sub>d</sub> (non-service):</b>	0.95	<b>Taper:</b>	0.3000 in/ft
<b>K<sub>e</sub>:</b>	1.00	<b>Rotation:</b>	0.000°

ICE & WIND PARAMETERS

<b>Risk Category:</b>	II	<b>Design Wind Speed:</b>	116 mph
<b>Exposure Category:</b>	B	<b>Design Wind Speed w/ Ice:</b>	49 mph
<b>Topo Factor Procedure:</b>	Method 1	<b>Design Ice Thickness:</b>	0.85 in
<b>Topographic Category:</b>	1	<b>Service Wind Speed:</b>	60 mph
<b>Crest Height:</b>	0 ft	<b>HMSL:</b>	77.00 ft

SEISMIC PARAMETERS

<b>Analysis Method:</b>	Equivalent Lateral Force Method		
<b>Site Class:</b>	D - Stiff Soil	<b>Period Based on Rayleigh Method (sec):</b>	2.99
<b>T<sub>L</sub> (sec):</b>	6	<b>P:</b>	1
<b>S<sub>s</sub>:</b>	0.207	<b>S<sub>1</sub>:</b>	0.054
<b>F<sub>a</sub>:</b>	1.600	<b>F<sub>v</sub>:</b>	2.400
<b>S<sub>ds</sub>:</b>	0.221	<b>S<sub>d1</sub>:</b>	0.086
		<b>C<sub>s</sub>:</b>	0.030
		<b>C<sub>s</sub> Max:</b>	0.030
		<b>C<sub>s</sub> Min:</b>	0.030

LOAD CASES

1.2D + 1.0W	115.99 mph Wind with No Ice
0.9D + 1.0W	115.99 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	48.73 mph Wind with 0.85" Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Section	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	52.50	0.3125	65		0.00	5,991	42.00	0.000	41.35	9,078.5	21.94	134.40	26.25	52.50	25.73	2,186.6	13.05	84.00	0.3000
2-18	33.67	0.2188	65	Slip	50.00	1,803	27.94	48.333	19.25	1,868.6	20.75	127.69	17.84	82.00	12.24	479.9	12.61	81.53	0.3000
3-18	17.00	0.1875	65	Butt	0.00	520	17.84	82.000	10.50	413.4	15.01	95.14	12.74	99.00	7.47	148.6	10.22	67.94	0.3000
4-18	20.00	0.2500	65	Butt	0.00	665	12.56	99.000	9.77	187.1	7.10	50.25	12.56	119.00	9.77	187.1	7.10	50.25	0.0000
<b>Total Shaft Weight</b>						<b>8,979</b>													

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice			Ice		
					Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor
119.00	Ericsson Air 6449 B77D	3	0.75	0.000	81.60	4.028	0.65	138.61	4.790	0.65
117.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3483.14	54.006	1.00
117.00	CCI DMP65R-BU6DA	3	0.75	0.000	79.40	12.709	0.63	221.96	14.252	0.63
117.00	Raycap DC9-48-60-24-8C-EV	1	0.75	0.000	16.00	4.788	0.50	87.45	5.602	0.50
117.00	Quintel QD6616-7	3	0.75	0.000	130.00	51.400	0.64	291.89	57.345	0.64
117.00	Commscope WCS-IMFQ-AMT	1	0.75	0.000	29.50	0.989	0.50	48.14	1.355	0.50
117.00	Raycap DC9-48-60-24-8C-EV	1	0.75	0.000	16.00	4.788	0.50	87.45	5.602	0.50
117.00	Ericsson RRUS 4426 B66	3	0.75	0.000	48.40	1.650	0.50	73.11	2.120	0.50
117.00	Ericsson RRUS 4478 B14	3	0.75	0.000	59.90	1.842	0.50	90.50	2.338	0.50
117.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	106.67	2.485	0.50
117.00	Ericsson RRUS 32 B2	3	0.75	1.000	53.00	2.743	0.50	93.70	3.390	0.50
117.00	Ericsson RRUS E2 B29	3	0.75	0.000	60.00	3.145	0.62	104.76	3.786	0.62
117.00	Ericsson RRUS-32 B30 (77 lbs)	3	0.75	0.000	77.00	3.314	0.50	130.82	4.024	0.50
115.00	Ericsson AIR 6419 B77G	3	0.75	0.000	66.10	3.797	0.65	119.63	4.524	0.65
107.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3474.31	53.902	1.00
107.00	JMA Wireless MX08FRO665-21	3	0.75	0.000	64.50	12.489	0.64	205.47	14.030	0.64
107.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	95.88	2.467	0.50
107.00	Raycap RDIDC-9181-PF-48	1	0.75	0.000	21.90	1.867	0.50	53.11	2.361	0.50
107.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	109.36	2.467	0.50
97.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	341.30	22.259	0.63
97.00	Ericsson AIR32 B66Aa/B2a	3	0.75	0.000	132.20	6.510	0.71	218.96	7.701	0.71
97.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	178.08	6.545	0.63
97.00	Ericsson RRUS 4415 B25	3	0.75	0.000	46.00	1.842	0.50	72.65	2.330	0.50
97.00	Ericsson Radio 4449 B71 B85A	3	0.75	0.000	75.00	1.650	0.50	107.69	2.112	0.50
97.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3465.66	53.800	1.00
96.90	Ericsson RRUS 01 B2 w/ Solar S	3	0.75	0.000	44.00	3.146	0.50	86.44	3.793	0.50
77.00	Quintel QS6656-5D	6	0.80	0.000	88.00	8.133	0.74	193.70	9.612	0.74
77.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	135.67	5.515	0.61
77.00	RFS DB-C1-12C-24AB-0Z	1	0.80	0.000	32.00	4.056	0.50	99.42	4.780	0.50
77.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	118.24	2.354	0.50
77.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	100.65	2.354	0.50
77.00	Generic Round T-Arm	3	0.75	0.000	312.50	9.700	0.67	451.09	14.074	0.67
<b>Totals</b>	<b>Row Count: 32</b>	<b>83</b>			<b>14,166.50</b>			<b>22,740.27</b>		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg): 0.00

Elev From (ft)	Elev To (ft)	Qty	Description	Diameter (in)	Weight (lb/ft)	Flat	Max/Row	Distance Between Rows(in)	Distance Between Cols(in)	Azimuth (deg)	Distance From Face (in)	Exposed To Wind	Carrier
0.00	117.00	3	0.82" (20.8mm) 8 AWG	0.82	0.62	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	117.00	3	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	117.00	1	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	117.00	1	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	117.00	1	0.40" (10.3mm) Fiber	0.4	0.09	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	107.00	1	1.75" (44.5mm) Hybrid	1.75	2.72	N	0	0	0	0	0	N	DISH WIRELESS L.L.C.
85.00	105.00	1	W8 Brackets for #20	2.48	6.3	Y	1	0	0	120	2.9	Y	
85.00	105.00	1	W8 Brackets for #20	2.48	6.3	Y	1	0	0	240	2.9	Y	
85.00	105.00	1	#20 w/ W Brackets	2.5	0	N	1	0	0	0	8.28	Y	
85.00	105.00	1	#20 w/ W Brackets	2.5	0	N	1	0	0	240	8.28	Y	







CALCULATED FORCES

Load Case: 0.9D + 1.0W

115.99 mph Wind with No Ice (Reduced DL)

26 Iterations

Gust Response Factor: 1.10  
 Dead load Factor: 0.90  
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-30.06	-19.27	0.00	-1,869.0	0.00	1,868.96	2,813.31	725.65	2,732.26	2,413.98	0	0	0.786
5.00	-29.24	-19.10	0.00	-1,772.6	0.00	1,772.63	2,747.79	699.53	2,539.19	2,272.29	0.15	-0.29	0.791
10.00	-28.44	-18.95	0.00	-1,677.1	0.00	1,677.13	2,679.61	673.42	2,353.20	2,132.56	0.61	-0.59	0.798
15.00	-27.67	-18.81	0.00	-1,582.4	0.00	1,582.40	2,608.76	647.31	2,174.28	1,995.03	1.4	-0.91	0.805
20.00	-26.90	-18.68	0.00	-1,488.4	0.00	1,488.37	2,535.24	621.20	2,002.44	1,859.96	2.53	-1.25	0.812
25.00	-26.16	-18.57	0.00	-1,395.0	0.00	1,394.97	2,459.06	595.09	1,837.67	1,727.58	4.03	-1.61	0.819
30.00	-25.44	-18.46	0.00	-1,302.1	0.00	1,302.14	2,380.22	568.98	1,679.97	1,598.16	5.91	-1.99	0.827
35.00	-24.73	-18.37	0.00	-1,209.8	0.00	1,209.82	2,298.17	542.87	1,529.34	1,471.58	8.21	-2.4	0.834
40.00	-24.03	-18.28	0.00	-1,118.0	0.00	1,117.97	2,187.63	516.76	1,385.79	1,332.77	10.95	-2.83	0.851
45.00	-23.13	-18.19	0.00	-1,026.6	0.00	1,026.57	2,077.10	490.65	1,249.31	1,200.82	14.17	-3.3	0.867
48.33	-22.27	-18.11	0.00	-965.9	0.00	965.92	2,003.41	473.25	1,162.25	1,116.68	16.59	-3.63	0.506
50.00	-21.74	-18.02	0.00	-935.7	0.00	935.74	1,966.57	464.54	1,119.91	1,075.76	17.88	-3.74	0.498
52.50	-20.97	-17.91	0.00	-890.7	0.00	890.69	1,293.31	322.59	771.23	704.07	19.87	-3.89	0.620
55.00	-20.37	-17.79	0.00	-845.9	0.00	845.92	1,268.09	313.45	728.15	670.62	21.95	-4.05	0.608
60.00	-19.25	-17.63	0.00	-757.0	0.00	756.98	1,215.65	295.17	645.70	605.07	26.38	-4.41	0.582
62.00	-18.79	-17.55	0.00	-721.7	0.00	721.72	1,193.93	287.85	614.11	579.41	28.26	-4.56	0.571
65.00	-18.09	-17.42	0.00	-669.1	0.00	669.07	1,160.55	276.89	568.21	541.55	31.2	-4.79	0.553
70.00	-16.98	-17.24	0.00	-582.0	0.00	581.96	1,094.76	258.60	495.66	476.80	36.42	-5.17	0.523
75.00	-15.91	-17.07	0.00	-495.8	0.00	495.79	1,017.37	240.32	428.07	411.45	42.04	-5.56	0.492
77.00	-13.68	-14.94	0.00	-461.6	0.00	461.64	986.41	233.01	402.42	386.66	44.4	-5.72	0.476
80.00	-13.06	-14.83	0.00	-416.8	0.00	416.83	939.98	222.04	365.43	350.92	48.07	-5.96	0.458
82.00	-12.63	-14.74	0.00	-387.2	0.00	387.17	780.36	184.34	293.89	282.62	50.6	-6.12	0.000
82.00	-12.63	-14.74	0.00	-387.2	0.00	387.17	909.02	214.73	341.76	328.05	50.6	-6.12	0.444
85.00	-12.02	-14.56	0.00	-342.9	0.00	342.94	740.57	174.94	264.69	254.39	54.51	-6.36	0.444
90.00	-11.02	-14.33	0.00	-270.1	0.00	270.13	674.25	159.27	219.41	210.64	61.38	-6.75	0.393
90.13	-10.96	-14.26	0.00	-268.3	0.00	268.27	672.53	158.86	218.29	209.56	61.56	-6.76	0.154
90.13	-10.96	-14.26	0.00	-268.3	0.00	268.27	672.53	158.86	218.29	209.56	61.56	-6.76	0.391
95.00	-10.30	-14.07	0.00	-198.8	0.00	198.82	607.93	143.61	178.38	171.01	68.64	-7.12	0.120
96.90	-10.02	-13.87	0.00	-172.1	0.00	172.10	582.73	137.65	163.90	157.04	71.48	-7.17	0.107
97.00	-6.89	-10.13	0.00	-170.7	0.00	170.71	581.40	137.34	163.16	156.32	71.63	-7.17	0.099
99.00	-6.71	-10.07	0.00	-150.4	0.00	150.44	725.83	171.46	190.75	181.64	74.64	-7.22	0.000
99.00	-6.71	-10.07	0.00	-150.4	0.00	150.44	554.88	131.07	148.61	142.28	74.64	-7.22	0.089
100.00	-6.58	-10.03	0.00	-140.4	0.00	140.38	725.83	171.46	190.75	181.64	76.15	-7.24	0.785
105.00	-6.25	-9.93	0.00	-90.2	0.00	90.24	725.83	171.46	190.75	181.64	84.2	-8.11	0.509
107.00	-3.70	-7.12	0.00	-70.4	0.00	70.38	725.83	171.46	190.75	181.64	87.64	-8.36	0.394
110.00	-3.57	-7.01	0.00	-49.0	0.00	49.03	725.83	171.46	190.75	181.64	92.97	-8.63	0.276
115.00	-3.24	-6.66	0.00	-14.0	0.00	13.99	725.83	171.46	190.75	181.64	102.12	-8.87	0.083
117.00	-0.24	-0.28	0.00	-0.6	0.00	0.57	725.83	171.46	190.75	181.64	105.83	-8.89	0.003
119.00	0.00	-0.24	0.00	0.0	0.00	0.00	725.83	171.46	190.75	181.64	109.54	-8.89	0.000

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi													48.73 mph Wind with 0.85" Radial Ice		25 Iterations	
Gust Response Factor:		1.10		Ice Dead Load Factor			1.00			Ice Importance Factor			1.00			
Dead load Factor:		1.20														
Wind Load Factor:		1.00														
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio			
0.00	-50.77	-4.83	0.00	-477.1	0.00	477.06	2,813.31	725.65	2,732.26	2,413.98	0	0	0.216			
5.00	-49.61	-4.80	0.00	-452.9	0.00	452.93	2,747.79	699.53	2,539.19	2,272.29	0.04	-0.07	0.217			
10.00	-48.46	-4.77	0.00	-429.0	0.00	428.95	2,679.61	673.42	2,353.20	2,132.56	0.16	-0.15	0.219			
15.00	-47.34	-4.75	0.00	-405.1	0.00	405.10	2,608.76	647.31	2,174.28	1,995.03	0.36	-0.23	0.221			
20.00	-46.25	-4.73	0.00	-381.4	0.00	381.36	2,535.24	621.20	2,002.44	1,859.96	0.65	-0.32	0.223			
25.00	-45.20	-4.72	0.00	-357.7	0.00	357.71	2,459.06	595.09	1,837.67	1,727.58	1.03	-0.41	0.225			
30.00	-44.17	-4.71	0.00	-334.1	0.00	334.12	2,380.22	568.98	1,679.97	1,598.16	1.51	-0.51	0.228			
35.00	-43.18	-4.70	0.00	-310.6	0.00	310.57	2,298.17	542.87	1,529.34	1,471.58	2.1	-0.61	0.230			
40.00	-42.23	-4.70	0.00	-287.1	0.00	287.06	2,187.63	516.76	1,385.79	1,332.77	2.8	-0.73	0.235			
45.00	-40.98	-4.69	0.00	-263.6	0.00	263.56	2,077.10	490.65	1,249.31	1,200.82	3.63	-0.85	0.239			
48.33	-39.77	-4.67	0.00	-247.9	0.00	247.92	2,003.41	473.25	1,162.25	1,116.68	4.25	-0.93	0.140			
50.00	-39.04	-4.65	0.00	-240.1	0.00	240.13	1,966.57	464.54	1,119.91	1,075.76	4.58	-0.96	0.138			
52.50	-37.96	-4.62	0.00	-228.5	0.00	228.49	1,293.31	322.59	771.23	704.07	5.09	-1	0.171			
55.00	-37.15	-4.60	0.00	-216.9	0.00	216.93	1,268.09	313.45	728.15	670.62	5.62	-1.04	0.168			
60.00	-35.56	-4.56	0.00	-194.0	0.00	193.95	1,215.65	295.17	645.70	605.07	6.76	-1.13	0.161			
62.00	-34.93	-4.54	0.00	-184.8	0.00	184.83	1,193.93	287.85	614.11	579.41	7.24	-1.17	0.158			
65.00	-33.99	-4.51	0.00	-171.2	0.00	171.21	1,160.55	276.89	568.21	541.55	8	-1.23	0.153			
70.00	-32.45	-4.47	0.00	-148.6	0.00	148.65	1,094.76	258.60	495.66	476.80	9.34	-1.33	0.144			
75.00	-30.95	-4.42	0.00	-126.3	0.00	126.32	1,017.37	240.32	428.07	411.45	10.78	-1.42	0.136			
77.00	-26.64	-3.89	0.00	-117.5	0.00	117.48	986.41	233.01	402.42	386.66	11.39	-1.46	0.130			
80.00	-25.76	-3.86	0.00	-105.8	0.00	105.79	939.98	222.04	365.43	350.92	12.33	-1.53	0.125			
82.00	-25.19	-3.84	0.00	-98.1	0.00	98.07	780.36	184.34	293.89	282.62	12.97	-1.57	0.000			
82.00	-25.19	-3.84	0.00	-98.1	0.00	98.07	909.02	214.73	341.76	328.05	12.97	-1.57	0.121			
85.00	-24.35	-3.81	0.00	-86.6	0.00	86.55	740.57	174.94	264.69	254.39	13.98	-1.63	0.121			
90.00	-22.81	-3.69	0.00	-67.5	0.00	67.51	674.25	159.27	219.41	210.64	15.74	-1.73	0.107			
90.13	-22.77	-3.68	0.00	-67.0	0.00	67.03	672.53	158.86	218.29	209.56	15.78	-1.73	0.048			
90.13	-22.77	-3.68	0.00	-67.0	0.00	67.03	672.53	158.86	218.29	209.56	15.78	-1.73	0.106			
95.00	-21.71	-3.57	0.00	-49.1	0.00	49.10	607.93	143.61	178.38	171.01	17.6	-1.82	0.039			
96.90	-21.13	-3.49	0.00	-42.3	0.00	42.33	582.73	137.65	163.90	157.04	18.32	-1.83	0.035			
97.00	-14.73	-2.58	0.00	-42.0	0.00	41.98	581.40	137.34	163.16	156.32	18.36	-1.83	0.031			
99.00	-14.41	-2.53	0.00	-36.8	0.00	36.82	725.83	171.46	190.75	181.64	19.13	-1.84	0.000			
99.00	-14.41	-2.53	0.00	-36.8	0.00	36.82	554.88	131.07	148.61	142.28	19.13	-1.84	0.028			
100.00	-14.30	-2.52	0.00	-34.3	0.00	34.29	725.83	171.46	190.75	181.64	19.52	-1.85	0.209			
105.00	-13.78	-2.43	0.00	-21.7	0.00	21.71	725.83	171.46	190.75	181.64	21.57	-2.06	0.139			
107.00	-8.70	-1.71	0.00	-16.9	0.00	16.86	725.83	171.46	190.75	181.64	22.45	-2.12	0.105			
110.00	-8.49	-1.68	0.00	-11.7	0.00	11.72	725.83	171.46	190.75	181.64	23.8	-2.18	0.076			
115.00	-7.80	-1.58	0.00	-3.3	0.00	3.33	725.83	171.46	190.75	181.64	26.12	-2.24	0.029			
117.00	-0.53	-0.08	0.00	-0.2	0.00	0.15	725.83	171.46	190.75	181.64	27.06	-2.25	0.002			
119.00	0.00	-0.05	0.00	0.0	0.00	0.00	725.83	171.46	190.75	181.64	28	-2.25	0.000			

CALCULATED FORCES

Load Case: 1.0D + 1.0W

60 mph Wind with No Ice

25 Iterations

Gust Response Factor: 1.10  
 Dead load Factor: 1.00  
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-33.45	-4.64	0.00	-455.7	0.00	455.69	2,813.31	725.65	2,732.26	2,413.98	0	0	0.201
5.00	-32.65	-4.61	0.00	-432.5	0.00	432.49	2,747.79	699.53	2,539.19	2,272.29	0.04	-0.07	0.202
10.00	-31.86	-4.57	0.00	-409.5	0.00	409.46	2,679.61	673.42	2,353.20	2,132.56	0.15	-0.14	0.204
15.00	-31.11	-4.55	0.00	-386.6	0.00	386.59	2,608.76	647.31	2,174.28	1,995.03	0.34	-0.22	0.206
20.00	-30.38	-4.52	0.00	-363.9	0.00	363.86	2,535.24	621.20	2,002.44	1,859.96	0.62	-0.3	0.208
25.00	-29.67	-4.50	0.00	-341.3	0.00	341.26	2,459.06	595.09	1,837.67	1,727.58	0.98	-0.39	0.210
30.00	-28.99	-4.48	0.00	-318.8	0.00	318.76	2,380.22	568.98	1,679.97	1,598.16	1.44	-0.49	0.212
35.00	-28.33	-4.47	0.00	-296.4	0.00	296.35	2,298.17	542.87	1,529.34	1,471.58	2.01	-0.59	0.214
40.00	-27.70	-4.45	0.00	-274.0	0.00	274.02	2,187.63	516.76	1,385.79	1,332.77	2.68	-0.69	0.218
45.00	-26.82	-4.44	0.00	-251.8	0.00	251.77	2,077.10	490.65	1,249.31	1,200.82	3.46	-0.81	0.223
48.33	-25.92	-4.42	0.00	-237.0	0.00	236.98	2,003.41	473.25	1,162.25	1,116.68	4.06	-0.89	0.130
50.00	-25.37	-4.40	0.00	-229.6	0.00	229.62	1,966.57	464.54	1,119.91	1,075.76	4.37	-0.91	0.128
52.50	-24.55	-4.37	0.00	-218.6	0.00	218.62	1,293.31	322.59	771.23	704.07	4.86	-0.95	0.159
55.00	-23.95	-4.35	0.00	-207.7	0.00	207.69	1,268.09	313.45	728.15	670.62	5.37	-0.99	0.156
60.00	-22.78	-4.31	0.00	-186.0	0.00	185.96	1,215.65	295.17	645.70	605.07	6.45	-1.08	0.150
62.00	-22.32	-4.29	0.00	-177.3	0.00	177.34	1,193.93	287.85	614.11	579.41	6.91	-1.12	0.147
65.00	-21.62	-4.27	0.00	-164.5	0.00	164.46	1,160.55	276.89	568.21	541.55	7.64	-1.17	0.142
70.00	-20.48	-4.23	0.00	-143.1	0.00	143.12	1,094.76	258.60	495.66	476.80	8.92	-1.27	0.135
75.00	-19.37	-4.19	0.00	-122.0	0.00	122.00	1,017.37	240.32	428.07	411.45	10.29	-1.36	0.127
77.00	-16.73	-3.67	0.00	-113.6	0.00	113.62	986.41	233.01	402.42	386.66	10.87	-1.4	0.122
80.00	-16.08	-3.64	0.00	-102.6	0.00	102.62	939.98	222.04	365.43	350.92	11.77	-1.46	0.117
82.00	-15.64	-3.62	0.00	-95.3	0.00	95.33	780.36	184.34	293.89	282.62	12.39	-1.5	0.000
82.00	-15.64	-3.62	0.00	-95.3	0.00	95.33	909.02	214.73	341.76	328.05	12.39	-1.5	0.114
85.00	-15.02	-3.58	0.00	-84.4	0.00	84.45	740.57	174.94	264.69	254.39	13.36	-1.56	0.114
90.00	-13.94	-3.53	0.00	-66.5	0.00	66.54	674.25	159.27	219.41	210.64	15.04	-1.66	0.101
90.13	-13.91	-3.51	0.00	-66.1	0.00	66.08	672.53	158.86	218.29	209.56	15.09	-1.66	0.043
90.13	-13.91	-3.51	0.00	-66.1	0.00	66.08	672.53	158.86	218.29	209.56	15.09	-1.66	0.100
95.00	-13.20	-3.46	0.00	-49.0	0.00	48.98	607.93	143.61	178.38	171.01	16.83	-1.75	0.034
96.90	-12.87	-3.41	0.00	-42.4	0.00	42.40	582.73	137.65	163.90	157.04	17.53	-1.76	0.031
97.00	-8.93	-2.50	0.00	-42.1	0.00	42.06	581.40	137.34	163.16	156.32	17.56	-1.76	0.028
99.00	-8.73	-2.48	0.00	-37.1	0.00	37.06	725.83	171.46	190.75	181.64	18.3	-1.77	0.000
99.00	-8.73	-2.48	0.00	-37.1	0.00	37.06	554.88	131.07	148.61	142.28	18.3	-1.77	0.025
100.00	-8.67	-2.47	0.00	-34.6	0.00	34.58	725.83	171.46	190.75	181.64	18.67	-1.78	0.203
105.00	-8.37	-2.45	0.00	-22.2	0.00	22.22	725.83	171.46	190.75	181.64	20.66	-1.99	0.134
107.00	-5.17	-1.75	0.00	-17.3	0.00	17.33	725.83	171.46	190.75	181.64	21.5	-2.05	0.103
110.00	-5.04	-1.72	0.00	-12.1	0.00	12.06	725.83	171.46	190.75	181.64	22.81	-2.12	0.073
115.00	-4.63	-1.64	0.00	-3.4	0.00	3.44	725.83	171.46	190.75	181.64	25.07	-2.18	0.025
117.00	-0.31	-0.07	0.00	-0.1	0.00	0.14	725.83	171.46	190.75	181.64	25.98	-2.18	0.001
119.00	0.00	-0.06	0.00	0.0	0.00	0.00	725.83	171.46	190.75	181.64	26.9	-2.18	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period ( $S_S$ ):	0.207
Spectral Response Acceleration at 1.0 Second Period ( $S_1$ ):	0.054
Long-Period Transition Period ( $T_L$ – Seconds):	6
Importance Factor ( $I_e$ ):	1.000
Site Coefficient $F_a$ :	1.600
Site Coefficient $F_v$ :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):	0.221
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.086
Seismic Response Coefficient ( $C_s$ ):	0.030
Upper Limit $C_s$ :	0.030
Lower Limit $C_s$ :	0.030
Period based on Rayleigh Method (sec):	2.990
Redundancy Factor ( $\rho$ ):	1.000
Seismic Force Distribution Exponent ( $k$ ):	2.000
Total Unfactored Dead Load:	33.460 k
Seismic Base Shear (E):	1.000 k

SEISMIC FORCES

Segment	Seismic	Height Above Base (ft)	Weight (lb)	$W_z$ (lb-ft)	$C_{vx}$	Horizontal Force (lb)	Vertical Force (lb)
35		118	66	926	0.004	4	83
34		116	85	1,141	0.005	5	106
33		112.5	212	2,683	0.012	12	264
32		108.5	127	1,498	0.007	7	158
31		106	90	1,014	0.004	4	112
30		102.5	289	3,032	0.013	13	359
29		99.5	58	571	0.002	3	72
28		98	201	1,932	0.008	9	250
27		96.95	11	100	0.000	0	13
26		95.95	204	1,880	0.008	8	254
25		92.565	704	6,034	0.027	27	876
24		90.065	28	225	0.001	1	35
23		87.5	1,080	8,265	0.036	37	1,343
22		83.5	621	4,328	0.019	19	772
21		81	429	2,814	0.012	12	534
20		78.5	649	3,997	0.018	18	807
19		76	441	2,548	0.011	11	549
18		72.5	1,115	5,862	0.026	26	1,388
17		67.5	1,133	5,162	0.023	23	1,410
16		63.5	688	2,775	0.012	12	856
15		61	462	1,721	0.008	8	575
14		57.5	1,168	3,863	0.017	17	1,454
13		53.75	591	1,707	0.008	8	735
12		51.25	817	2,147	0.010	10	1,017
11		49.1667	551	1,332	0.006	6	685
10		46.6667	894	1,946	0.009	9	1,112
9		42.5	873	1,577	0.007	7	1,086
8		37.5	624	878	0.004	4	776
7		32.5	649	686	0.003	3	808
6		27.5	675	510	0.002	2	839
5		22.5	700	354	0.002	2	871
4		17.5	725	222	0.001	1	902
3		12.5	751	117	0.000	1	934
2		7.5	776	44	0.000	0	965
1		2.5	801	5	0.000	0	997
Ericsson Air 6449 B77D		119	245	3,467	0.015	15	305
Commscope WCS-IMFQ-AMT		117	30	404	0.002	2	37
Ericsson RRUS 4426 B66		117	145	1,988	0.009	9	181

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
Ericsson RRUS 4478 B14	117	180	2,460	0.011	11	224
Ericsson RRUS 4449 B5, B12	117	213	2,916	0.013	13	265
Ericsson RRUS 32 B2	117	159	2,177	0.010	10	198
Ericsson RRUS E2 B29	117	180	2,464	0.011	11	224
Ericsson RRUS-32 B30 (77 lbs)	117	231	3,162	0.014	14	287
Raycap DC9-48-60-24-8C-EV	117	16	219	0.001	1	20
Raycap DC9-48-60-24-8C-EV	117	16	219	0.001	1	20
CCI DMP65R-BU6DA	117	238	3,261	0.014	14	296
Generic Flat Platform with Handrails	117	2,500	34,222	0.151	152	3,110
Generic Flat Platform with Handrails	107	2,500	28,622	0.126	127	3,110
Generic Flat Platform with Handrails	97	2,500	23,522	0.104	104	3,110
Quintel QD6616-7	117	390	5,339	0.024	24	485
Ericsson AIR 6419 B77G	115	198	2,623	0.012	12	247
Raycap RDIDC-9181-PF-48	107	22	251	0.001	1	27
Fujitsu TA08025-B605	107	225	2,576	0.011	11	280
Fujitsu TA08025-B604	107	192	2,195	0.010	10	239
JMA Wireless MX08FRO665-21	107	194	2,215	0.010	10	241
Ericsson Radio 4449 B71 B85A	97	225	2,117	0.009	9	280
Ericsson RRUS 4415 B25	97	138	1,298	0.006	6	172
Ericsson Air6449 B41	97	312	2,936	0.013	13	388
Ericsson AIR32 B66Aa/B2a	97	397	3,732	0.016	17	493
RFS APXVAARR24_43-U-NA20	97	384	3,610	0.016	16	477
Ericsson RRUS 01 B2 w/ Solar Shield	96.9	132	1,239	0.006	5	164
Samsung B5/B13 RRH-BR04C	77	211	1,250	0.006	6	262
Samsung B2/B66A RRH-BR049	77	253	1,501	0.007	7	315
RFS DB-C1-12C-24AB-0Z	77	32	190	0.001	1	40
Samsung MT6407-77A	77	245	1,451	0.006	6	305
Quintel QS6656-5D	77	528	3,131	0.014	14	657
Generic Round T-Arm	77	938	5,558	0.025	25	1,166
<b>Totals:</b>		<b>33,455</b>	<b>226,214</b>	<b>1.000</b>	<b>1,004</b>	<b>41,624</b>

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
35	118	66	926	0.004	4	57
34	116	85	1,141	0.005	5	73
33	112.5	212	2,683	0.012	12	181
32	108.5	127	1,498	0.007	7	109
31	106	90	1,014	0.004	4	77
30	102.5	289	3,032	0.013	13	247
29	99.5	58	571	0.002	3	49
28	98	201	1,932	0.008	9	172
27	96.95	11	100	0.000	0	9
26	95.95	204	1,880	0.008	8	175
25	92.565	704	6,034	0.027	27	603
24	90.065	28	225	0.001	1	24
23	87.5	1,080	8,265	0.036	37	924
22	83.5	621	4,328	0.019	19	531
21	81	429	2,814	0.012	12	367
20	78.5	649	3,997	0.018	18	555
19	76	441	2,548	0.011	11	378
18	72.5	1,115	5,862	0.026	26	955
17	67.5	1,133	5,162	0.023	23	970
16	63.5	688	2,775	0.012	12	589
15	61	462	1,721	0.008	8	396
14	57.5	1,168	3,863	0.017	17	1,000
13	53.75	591	1,707	0.008	8	506
12	51.25	817	2,147	0.010	10	699
11	49.1667	551	1,332	0.006	6	471
10	46.6667	894	1,946	0.009	9	765

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
9	42.5	873	1,577	0.007	7	747
8	37.5	624	878	0.004	4	534
7	32.5	649	686	0.003	3	556
6	27.5	675	510	0.002	2	577
5	22.5	700	354	0.002	2	599
4	17.5	725	222	0.001	1	621
3	12.5	751	117	0.000	1	642
2	7.5	776	44	0.000	0	664
1	2.5	801	5	0.000	0	686
Ericsson Air 6449 B77D	119	245	3,467	0.015	15	210
Commscope WCS-IMFQ-AMT	117	30	404	0.002	2	25
Ericsson RRUS 4426 B66	117	145	1,988	0.009	9	124
Ericsson RRUS 4478 B14	117	180	2,460	0.011	11	154
Ericsson RRUS 4449 B5, B12	117	213	2,916	0.013	13	182
Ericsson RRUS 32 B2	117	159	2,177	0.010	10	136
Ericsson RRUS E2 B29	117	180	2,464	0.011	11	154
Ericsson RRUS-32 B30 (77 lbs)	117	231	3,162	0.014	14	198
Raycap DC9-48-60-24-8C-EV	117	16	219	0.001	1	14
Raycap DC9-48-60-24-8C-EV	117	16	219	0.001	1	14
CCI DMP65R-BU6DA	117	238	3,261	0.014	14	204
Generic Flat Platform with Handrails	117	2,500	34,222	0.151	152	2,140
Generic Flat Platform with Handrails	107	2,500	28,622	0.126	127	2,140
Generic Flat Platform with Handrails	97	2,500	23,522	0.104	104	2,140
Quintel QD6616-7	117	390	5,339	0.024	24	334
Ericsson AIR 6419 B77G	115	198	2,623	0.012	12	170
Raycap RDIDC-9181-PF-48	107	22	251	0.001	1	19
Fujitsu TA08025-B605	107	225	2,576	0.011	11	193
Fujitsu TA08025-B604	107	192	2,195	0.010	10	164
JMA Wireless MX08FRO665-21	107	194	2,215	0.010	10	166
Ericsson Radio 4449 B71 B85A	97	225	2,117	0.009	9	193
Ericsson RRUS 4415 B25	97	138	1,298	0.006	6	118
Ericsson Air6449 B41	97	312	2,936	0.013	13	267
Ericsson AIR32 B66Aa/B2a	97	397	3,732	0.016	17	339
RFS APXVAARR24_43-U-NA20	97	384	3,610	0.016	16	328
Ericsson RRUS 01 B2 w/ Solar Shield	96.9	132	1,239	0.006	5	113
Samsung B5/B13 RRH-BR04C	77	211	1,250	0.006	6	180
Samsung B2/B66A RRH-BR049	77	253	1,501	0.007	7	217
RFS DB-C1-12C-24AB-0Z	77	32	190	0.001	1	27
Samsung MT6407-77A	77	245	1,451	0.006	6	210
Quintel QS6656-5D	77	528	3,131	0.014	14	452
Generic Round T-Arm	77	938	5,558	0.025	25	802
<b>Totals:</b>		<b>33,455</b>	<b>226,214</b>	<b>1.000</b>	<b>1,004</b>	<b>28,632</b>

1.2D + 1.0Ev + 1.0Eh

Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-40.63	-1.01	0.00	-106.60	0.00	106.60	2,813.31	725.65	2,732	2,413.98	0.00	0.00	0.06
5.00	-39.66	-1.02	0.00	-101.55	0.00	101.55	2,747.79	699.53	2,539	2,272.29	0.01	-0.02	0.06
10.00	-38.73	-1.03	0.00	-96.45	0.00	96.45	2,679.61	673.42	2,353	2,132.56	0.04	-0.03	0.06
15.00	-37.82	-1.04	0.00	-91.30	0.00	91.30	2,608.76	647.31	2,174	1,995.03	0.08	-0.05	0.06
20.00	-36.95	-1.05	0.00	-86.08	0.00	86.08	2,535.24	621.20	2,002	1,859.96	0.15	-0.07	0.06
25.00	-36.11	-1.06	0.00	-80.82	0.00	80.82	2,459.06	595.09	1,838	1,727.58	0.23	-0.09	0.06
30.00	-35.30	-1.07	0.00	-75.51	0.00	75.51	2,380.22	568.98	1,680	1,598.16	0.34	-0.11	0.06
35.00	-34.53	-1.08	0.00	-70.14	0.00	70.14	2,298.17	542.87	1,529	1,471.58	0.47	-0.14	0.06
40.00	-33.44	-1.09	0.00	-64.73	0.00	64.73	2,187.63	516.76	1,386	1,332.77	0.63	-0.16	0.06
45.00	-32.33	-1.09	0.00	-59.30	0.00	59.30	2,077.10	490.65	1,249	1,200.82	0.82	-0.19	0.07
48.33	-31.64	-1.09	0.00	-55.67	0.00	55.67	2,003.41	473.25	1,162	1,116.68	0.96	-0.21	0.04
50.00	-30.63	-1.08	0.00	-53.86	0.00	53.86	1,966.57	464.54	1,120	1,075.76	1.03	-0.22	0.04





CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
90.13	-11.38	-0.76	0.00	-13.89	0.00	13.89	672.53	158.86	218	209.56	3.40	-0.37	0.03
90.13	-11.38	-0.76	0.00	-13.89	0.00	13.89	672.53	158.86	218	209.56	3.40	-0.37	0.01
95.00	-11.21	-0.75	0.00	-10.20	0.00	10.20	607.93	143.61	178	171.01	3.79	-0.39	0.01
96.90	-11.08	-0.74	0.00	-8.77	0.00	8.77	582.73	137.65	164	157.04	3.94	-0.39	0.01
97.00	-7.53	-0.55	0.00	-8.70	0.00	8.70	581.40	137.34	163	156.32	3.95	-0.39	0.01
99.00	-7.48	-0.54	0.00	-7.61	0.00	7.61	554.88	131.07	149	142.28	4.12	-0.39	0.01
99.00	-7.48	-0.54	0.00	-7.61	0.00	7.61	725.83	171.46	191	181.64	4.12	-0.39	0.00
100.00	-7.23	-0.53	0.00	-7.06	0.00	7.06	725.83	171.46	191	181.64	4.20	-0.39	0.05
105.00	-7.15	-0.53	0.00	-4.41	0.00	4.41	725.83	171.46	191	181.64	4.63	-0.44	0.03
107.00	-4.37	-0.34	0.00	-3.35	0.00	3.35	725.83	171.46	191	181.64	4.82	-0.45	0.02
110.00	-4.18	-0.33	0.00	-2.32	0.00	2.32	725.83	171.46	191	181.64	5.11	-0.46	0.02
115.00	-3.94	-0.31	0.00	-0.66	0.00	0.66	725.83	171.46	191	181.64	5.60	-0.47	0.01
117.00	-0.21	-0.02	0.00	-0.03	0.00	0.03	725.83	171.46	191	181.64	5.80	-0.47	0.00
119.00	0.00	-0.02	0.00	0.00	0.00	0.00	725.83	171.46	191	181.64	6.00	-0.47	0.00

ANALYSIS SUMMARY

Load Case	Base Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	19.30	0.00	40.10	0.00	0.00	1918.22	45.00	0.9
0.9D + 1.0W	19.27	0.00	30.06	0.00	0.00	1868.96	45.00	0.87
1.2D + 1.0Di + 1.0Wi	4.83	0.00	50.77	0.00	0.00	477.06	45.00	0.24
1.2D + 1.0Ev + 1.0Eh	1.09	0.00	40.63	0.00	0.00	106.60	45.00	0.06
0.9D - 1.0Ev + 1.0Eh	1.05	0.00	27.95	0.00	0.00	103.12	45.00	0.06
1.0D + 1.0W	4.64	0.00	33.45	0.00	0.00	455.69	45.00	0.22

ADDITIONAL STEEL SUMMARY

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors				Max Member		
			VQ/I (k/in)	Shear Applied (kips)	phiVn (kips)	Ratio	Pu (kip)	phiPn (kip)	Ratio
45.00	62.00	PL PL 6" x 1"	526.4	6.3	25.3	0.25	274.6	285.4	0.9620
62.00	82.00	PL PL 6" x 1"	663.0	8.0	25.3	0.3148	265.0	285.4	0.9283
82.00	90.13	PL PL 6" x 1"	813.6	9.8	25.3	0.3864	212.3	285.4	0.7439
90.13	99.00	SOL #20 All Thread Bar	546.2	13.1	16.8	0.7799	118.8	338.6	0.3509

Elev From (ft)	Elev To (ft)	Member	Upper Termination Connectors				Lower Termination Connectors					
			MQ/I (kips)	phiVn (kips)	Number Required	Number Actual	Ratio	MQ/I (kips)	phiVn (kip)	Number Required	Number Actual	Ratio
45.00	62.00	PL PL 6" x 1"	260.5609	25.27	11	99	0.1042	235.8226	25.27	10	12	0.7777
62.00	82.00	PL PL 6" x 1"	208.9229	25.27	9	10	0.8268	260.5609	25.27	11	99	0.1042
82.00	90.13	PL PL 6" x 1"	183.3485	25.27	8	8	0.9069	220.1234	25.27	9	99	0.0880
90.13	99.00	SOL #20 All Thread Bar	73.0652	12	7	12	0.5074	115.7111	12	10	12	0.8035

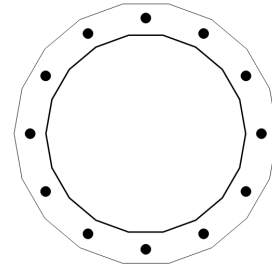
**BASE PLATE ANALYSIS @ 0 FT**

**APPLIED REACTIONS**

Moment (k-ft)	Axial (k)	Shear (k)
1918.22	40.1	19.3

**PLATE PARAMETERS (ID# 23384)**

Width:	55.15	in
Shape:	18	
Thickness:	2	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Rod Detail Type:	d	
Clear Distance	3.5	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	15	°



**ANCHOR ROD PARAMETERS**

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Spacing (in)	Offset (°)
Original [ID#23998]	Radial	12	2.25	49.15	A615-75	75	100	-	-

**COMPONENT PROPERTIES**

Component	ID	Gross Area (in <sup>2</sup> )	Net Area (in <sup>2</sup> )	Individual Inertia (in <sup>4</sup> )	Moment of Inertia (in <sup>4</sup> )	Threads/in
Pole	42"Ø x 0.3125" (18 Sides)	40.7191	-	-	8846.79	-
Bolt Group	Original (12) 2.25"Ø	3.9761	3.2477	0.8393	10554.88	4.5

**REACTION DISTRIBUTION**

Component	ID	Moment M <sub>u</sub> (k-ft)	Axial Load P <sub>u</sub> (k)	Shear V <sub>u</sub> (k)	Moment Factor
Pole	42"Ø x 0.3125" (18 Sides)	1918.2	40.10	19.30	1.000
Bolt Group	Original (12) 2.25"Ø	1918.2	-	19.30	1.000

**BASE PLATE BEND LINE ANALYSIS @ 0 FT**

**POLE PROPERTIES**

Flat-to-Flat Diameter:	42.12	in
Point-to-Point Diameter:	42.78	in
Orientation Offset:	-	°

Flat Width:	7.428	in
Flat Radians:	0.349	rad

**PLATE PROPERTIES**

Neutral Axis:	15	°
Bend Line Limits:	1.219 to 2.446	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in <sup>3</sup> )	Applied Moment M <sub>u</sub> (k-in)	Moment Capacity ΦM <sub>n</sub> (k-in)	Flexure Result M <sub>u</sub> /ΦM <sub>n</sub>
Flats	31.400	0.00	31.400	457.4	1413.0	32.4%
Corners	30.508	0.00	30.508	351.8	1372.9	25.6%
Circumferential	41.015	0.00	41.015	609.4	1845.7	33.0%

**PLASTIC ANCHOR ROD ANALYSIS**

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P <sub>u</sub> (k)	Applied Shear Load V <sub>u</sub> (k)	Compressive Capacity ΦP <sub>n</sub> (k)	Interaction Result
Original	12	2.25	134.7	2.4	243.6	57.3%

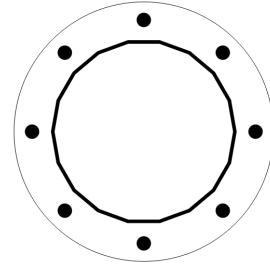
**UPPER FLANGE PLATE ANALYSIS @ 99 FT**

**APPLIED REACTIONS**

Moment (k-ft)	Axial (k)	Shear (k)
156.22	9.28	10.44

**PLATE PARAMETERS (ID# 23385)**

Width:	18	in
Shape:	Round	
Thickness:	1.25	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	23	°



**FLANGE BOLT PARAMETERS**

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Spacing (in)	Offset (°)
Original [ID#23997]	Radial	8	1	15.5	A490	130	150	-	-

**COMPONENT PROPERTIES**

Component	ID	Gross Area (in <sup>2</sup> )	Net Area (in <sup>2</sup> )	Individual Inertia (in <sup>4</sup> )	Moment of Inertia (in <sup>4</sup> )	Threads/in
Pole	12.5625"ø x 0.25" (18 Sides)	9.6212	-	-	182.52	-
Bolt Group	Original (8) 1"ø	0.7854	0.6057	0.0292	123.24	8.0

**REACTION DISTRIBUTION**

Component	ID	Moment M <sub>u</sub> (k-ft)	Axial Load P <sub>u</sub> (k)	Shear V <sub>u</sub> (k)	Moment Factor
Pole	12.5625"ø x 0.25" (18 Sides)	156.2	9.28	10.44	1.000
Bolt Group	Original (8) 1"ø	156.2	-	10.44	1.000

**UPPER FLANGE PLATE BEND LINE ANALYSIS @ 99 FT**

**POLE PROPERTIES**

Flat-to-Flat Diameter:	12.69	in
Point-to-Point Diameter:	12.88	in
Orientation Offset:	-	°

Flat Width:	2.237	in
Flat Radians:	0.349	rad

**PLATE PROPERTIES**

Neutral Axis:	23	°
Bend Line Limits:	1.024 to 2.903	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in <sup>3</sup> )	Applied Moment M <sub>u</sub> (k-in)	Moment Capacity ΦM <sub>n</sub> (k-in)	Flexure Result M <sub>u</sub> /ΦM <sub>n</sub>
Flats	11.427	0.00	4.464	29.5	200.9	14.7%
Corners	11.206	0.00	4.377	17.4	197.0	8.8%
Circumferential	18.429	0.00	7.199	84.5	324.0	26.1%

**PLASTIC FLANGE BOLT ANALYSIS**

Class	Group Quantity	Bolt Diameter (in)	Applied Axial Load P <sub>u</sub> (k)	Applied Shear Load V <sub>u</sub> (k)	Compressive Capacity ΦP <sub>n</sub> (k)	Interaction Result
Original	8	1	52.6	1.9	68.1	81.2%

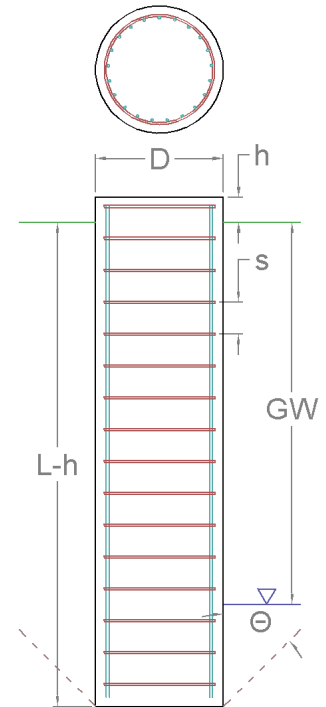
## PIER FOUNDATION ANALYSIS

### GLOBAL REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
1,918.22	40.10	19.30

### FOUNDATION PARAMETERS

Pier Diameter:	D	6.50	ft
Pier Embedment Depth:	L-h	31.0	ft
Pier Height above Grade:	h	0.50	ft
Concrete Compressive Strength:		4,000	psi
Vertical Rebar:		(24) #9 bars [60 ksi]	
Tie Rebar:	s	#4 bars @ 12.0" c/c [60 ksi]	
Rebar Clear Cover:		3.00	in



### SOIL PARAMETERS

Water Table Depth [BGL]: GW 7 ft

Layer Depth (ft)	Top	Bottom	Unit Weight pcf	Cohesion psf	Friction Angle °	Ultimate Skin	Ultimate Net
						Friction psf	Bearing psf
0	4	105	0	0	0	0	
4	7	123	0	32	691	0	
7	10	127	0	37	1,051	0	
10	15	122	0	34	1,258	0	
15	20	121	0	33	1,420	0	
20	25	118	0	32	1,544	0	
25	30	114	0	30	1,149	0	
30	35	127	0	34	1,706	39,570	

### SOIL STRENGTH ANALYSIS

Volume of Concrete (ft <sup>3</sup> )	Buoyant Weight of Concrete (k)	Skin Friction Resistance (k)	Inflection Point [BGL] (ft)
1,045.27	107.10	689.94	20.34

### SOIL MOMENT ANALYSIS

Total Lateral Resistance (k)	Moment at Inflection Point, M <sub>u</sub> (k-ft)	Additional Resistance (k-ft)	Nominal Moment Capacity, ΦM <sub>n</sub> (k-ft)	Soil Moment Usage, M <sub>u</sub> / ΦM <sub>n</sub>
2,110.19	2,320.36	0.00	10,023.97	23.1% <span style="float: right; color: green;">✓</span>


### SOIL COMPRESSION ANALYSIS

Compressive Bearing Resistance (k)	Compressive Force, P <sub>u</sub> (k)	Additional Resistance (k)	Nominal Compressive Capacity, ΦP <sub>n</sub> (k)	Soil Compressive Usage, P <sub>u</sub> / ΦP <sub>n</sub>
1,313.05	79.04	0.00	1,502.25	5.3% <span style="float: right; color: green;">✓</span>


**REINFORCING STEEL STRENGTH ANALYSIS**

Rebar Cage Diameter (in)	Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, $\Phi_b$	Strength Shear Reduction Factor, $\Phi_v$	Strength Compression Reduction Factor, $\Phi_c$
69.872	29,000	0.9	0.75	0.65


**PIER REINFORCING MOMENT ANALYSIS**

Design Moment, $M_u$ (k-ft)	Nominal Moment Capacity, $\Phi_b M_n$ (k-ft)	Bending Reinforcement Ratio	Pier Rebar Flexure Usage, $M_u / \Phi_b M_n$
1,929.20	3,695.06	0.01	52.2% 

**PIER REINFORCING COMPRESSION ANALYSIS**

Buoyant Weight of Concrete (k)	Design Compression, $P_u$ (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$
107.10	79.04	9,154.51	0.9% 

**PIER REINFORCING SHEAR ANALYSIS**

Design Shear, $V_u$ (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$
147.62	548.82	26.9% 

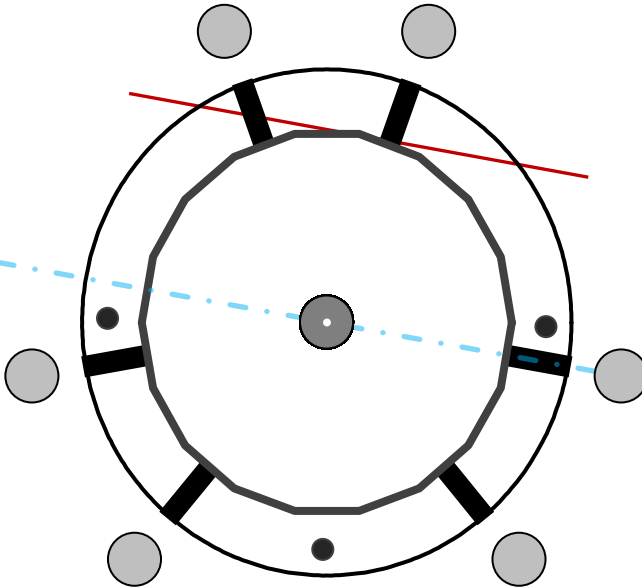
## Flange Plate & Bolt Analysis at 82'

Pole Dimensions		
Number of Sides	18	-
Diameter	17.8375	in
Thickness	3/16	in
Base Weld Size	3/16	in
Orientation Offset		°

Applied Reactions		
Moment, Mu	134.2	k-ft
Axial, Pu	17.3	k
Shear, Vu	15.3	k
Analysis Type	Elastic	
Neutral Axis	350	°

Report Capacities		
Component	Capacity	Result
Flange Plate	71%	Pass
Bolts	16%	Pass
Dwyidag	-	-

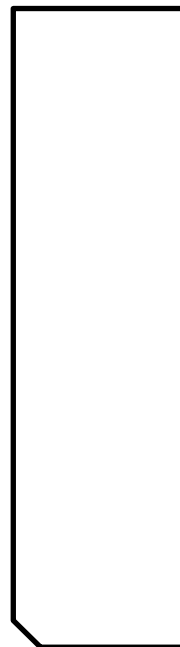
Flange Plate		
Shape	Round	-
Diameter, $\phi$	24.2	in
Thickness	1 1/2	in
Grade	A572-50	
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Clip	N/A	in
Orientation Offset		°
Anchor Rod Detail	d	$\eta=0.5$
Clear Distance	3	in
Applied Moment, Mu	317.3	k
Bending Stress, $\phi Mn$	449.9	k



Additional Bolts		
Quantity	6	-
Diameter, $\phi$	2 1/2	in
Bolt Circle	29.5875	in
Grade	A572-65	
Yield Strength, Fy	65	ksi
Tensile Strength, Fu	80	ksi
Bypass Plate?	No	
Orientation Offset		°
Applied Force, Pu	36.6	k
Additional Rod, $\phi Pn$	239.9	k

Original Bolts		
Arrangement	Cluster	-
Quantity	3	-
Diameter, $\phi$	1	in
Bolt Circle	21.7	in
Grade	A325	
Yield Strength, Fy	92	ksi
Tensile Strength, Fu	120	ksi
Spacing	6.0	in
Orientation Offset	40	°
Applied Force, Pu	0.6	k
Anchor Rods, $\phi Pn$	54.5	k

Stiffeners		
Arrangement	Radial	-
Quantity	6	-
Height	12	in
Width	3.181	in
Effective Width	3.181	in
Thickness	1	in
Effective Thickness	1.000	in
Notch	0.5	in
Flat Edge	3.181	in
Grade	A572-65	-
Yield Strength, Fy	65	ksi
Tensile Strength, Fu	80	ksi
Horizontal Weld	Fillet	
Horizontal Fillet Size	5/16	in
Bevel Depth		in
Vertical Weld	Fillet	
Vertical Fillet Size	5/16	in
Weld Strength	80	ksi
Electrode Coefficient	1.03	-
Orientation Offset		°
Vertical Weld, $\phi Rn$	156.2	k
Horz. Weld, $\phi Rn$	51.6	k
Ten. Capacity, $\phi Tn$	144.8	k
Comp. Capacity, $\phi Pn$	973.6	k



Individual Capacity Summary		
Component	Capacity	Result
Flange Plate	71%	Pass
Bolts	7%	Pass
Plastic Rod Group	-	-
Dwyidag	-	-
Bolt Group 1	16%	Pass
Bolt Group 2	-	-
Stiffener Weld (V)	23%	Pass
Stiffener Weld (H)	70%	Pass
Stiffener Tension	9%	Pass
Stiffener Comp.	2%	Pass



# Calculations for Monopole Base Plate & Anchor Rod Analysis

## Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
<b>Base Forces</b>	15.3	134.2	1.00
<b>Anchor Rod Forces</b>	2.3	3.2	0.02
<b>Additional Bolt (Grp1) Forces</b>	13.0	131.0	0.98
<b>Additional Bolt (Grp2) Forces</b>	0.0	0.0	0.00
<b>Dywidag Forces</b>	0.0	0.0	0.00
<b>Stiffener Forces</b>	10.2	89.6	0.67

## Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in <sup>2</sup>	in <sup>2</sup>	in <sup>4</sup>	#	in <sup>4</sup>
<b>Pole</b>	10.3440	0.5747	0.0068		402.92
<b>Bolt</b>	0.7854	0.6057	0.0292	8	64.96
<b>Bolt1</b>	4.9087	3.9988	1.2725	4	2633.13
<b>Bolt2</b>	0.0000	0.0000	0.0000	0	0.00
<b>Dywidag</b>	0.0000	0.0000	0.0000		0.00
<b>Stiffener</b>	2.6810	2.4129	10.7293		808.32

Base Plate		
Shape	Round	-
Diameter, D	24.2	in
Thickness, t	1.5	in
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Base Plate Chord	16.354	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3	-

Anchor Rods		
Anchor Rod Quantity, N	3	-
Rod Diameter, d	1	in
Bolt Circle, BC	21.7	in
Yield Strength, Fy	92	ksi
Tensile Strength, Fu	120	ksi
Applied Axial, Pu	0.6	k
Applied Shear, Vu	1.8	k
Compressive Capacity, $\phi P_n$	54.5	k
Axial Result	1.1%	OK
Interaction Result	7.3%	OK

Base Plate Stiffeners		
Applied Axial Force, Pu	35.1	k
Applied Tensile Force, Tu	27.3	k
Applied Horizontal Force, Vu	0.48	k

Vertical Weld		
Vert.-to-Stiffener $a=e_v/l$	0.088	-
Spacing Ratio, k	0.083	-
Weld Coefficient, C	3.371	-
Compressive Capacity, $\phi P_n$	156.2	k
Vert.-to-Plate $a=e_v/l$	0.333	-
Spacing Ratio, k	0.083	-
Weld Coefficient, C	2.940	-
Shear Capacity, $\phi V_n$	136.3	k
$P_u/\phi_p P_n + V_u/\phi_v V_n$	22.8%	OK

External Base Plate		
Chord Length AA	14.725	in
Additional AA	4.852	in
Section Modulus, Z	11.012	in <sup>3</sup>
Applied Moment, Mu	326.9	k-in
Bending Capacity, $\phi M_n$	495.5	k-in
Capacity, $M_u/\phi M_n$	66.0%	OK
Chord Length AB	14.378	in
Additional AB	3.396	in
Section Modulus, Z	9.998	in <sup>3</sup>
Applied Moment, Mu	317.3	k-in
Bending Capacity, $\phi M_n$	449.9	k-in
Capacity, $M_u/\phi M_n$	70.5%	OK

Additional Bolt Group 1		
Bolt Quantity, N	6	-
Bolt Diameter, d	2.5	in
Bolt Circle, BC	29.5875	in
Yield Strength, Fy	65	ksi
Tensile Strength, Fu	80	ksi
Applied Axial, Pu	36.6	k
Applied Shear, Vu	0.6	k
Compressive Capacity, $\phi P_n$	239.9	k
Axial Result	15.3%	OK
Interaction Result	15.7%	OK

Horizontal Weld		
Horz.-to-Stiffener $a=e_h/l$	0.167	-
Spacing Ratio, k	0.314	-
Weld Coefficient, C	4.200	-
Effective Fillet	0.313	in
Compressive Capacity, $\phi P_n$	51.6	k
Horz.-to-Pole $a=e_h/l$	0.629	-
Spacing Ratio, k	0.314	-
Weld Coefficient, C	2.070	-
Shear Capacity, $\phi V_n$	25.4	k
$P_u/\phi_p P_n + V_u/\phi_v V_n$	69.9%	OK

Bend Line Length	0.000	in
Additional Bend Line	#N/A	in
Section Modulus, Z	#N/A	in <sup>3</sup>
Applied Moment, Mu	346.7	k-in
Bending Capacity, $\phi M_n$	#N/A	k-in
Capacity, $M_u/\phi M_n$		

Plate Tension		
Gross Cross Section	2.681	in <sup>2</sup>
Net Cross Section	2.413	in <sup>2</sup>
Tensile Capacity, $\phi T_n$	144.8	k
Capacity, $T_u/\phi T_n$	9.4%	OK

Plate Compression		
Radius of Gyration	0.289	in <sup>3</sup>
kl/r	24.94	-
$4.71 \sqrt{E/F_y}$	99.49	-
Buckling Stress( $F_e$ )	460.1	-
Crit. Buckling Stress( $F_{cr}$ )	403.5	ksi
Compressive Capacity, $\phi P_n$	973.6	k
Capacity, $P_u/\phi P_n$	1.8%	OK



**AMERICAN TOWER®**  
CORPORATION

This report was prepared for American Tower Corporation by



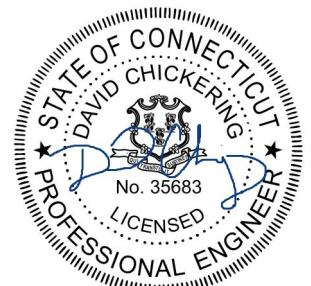
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## Antenna Mount Analysis Report

**ATC Site Name** : Stoneybrook Rd CT  
**ATC Asset Number** : 283420  
**Engineering Number** : 13682835\_C8\_05  
**Mount Elevation** : 118.75 ft  
**Carrier** : AT&T Mobility  
**Carrier Site Name** : MRCTB051448  
**Carrier Site Number** : CTL02381  
**Site Location** : 23 Stonybrook Road  
Stratford, CT 06614-3715  
41.203278, -73.148625  
**County** : Fairfield  
**Date** : April 8, 2022  
**Max Usage** : 95%  
**Result** : Contingent Pass\*  
\*See conclusion for requirements

Prepared By:  
**Rohit Yadav**  
Telamon Tower Engineering, PLLC

Reviewed By:  
**David Chickering, P.E.**  
Telamon Tower Engineering, PLLC



David Chickering  
Telamon Tower Engineering PLLC  
PE # 35683 Exp. 01/31/2023

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Calculations ..... Attached

## Introduction

The proposed equipment is to be mounted to the proposed Site Pro 1 RMQP-12-H5 Platform w/ Site Pro 1 HRK12-HD Support Rail Kit.. 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

<b>Structural Data</b>	Site Photos dated June 10, 2020 Spec Sheet for Site Pro 1, DWG. #RMQP-12-H5, dated November 01, 2017 Spec Sheet for Site Pro 1, DWG. #HRK12-HD, dated March 31, 2015 Site Pro 1 Part #SQCX4-K, dated November 12, 2018 Site Pro 1 Part #DCP12K, dated January 22, 2013
<b>Previous Analyses</b>	Structural Analysis by CLS Engineering for American Tower Corporation, Eng. #13712876_C3_04, dated October 19, 2021 Mount Analysis by CLS Engineering for American Tower Corporation, Eng. #13361423_C8_01, dated May 21, 2021
<b>Loading Data</b>	ATC Application, Project #13682835, dated January 07, 2022 AT&T RFDS, Site ID #4397242, Version 4.00, dated November 15, 2021

## Analysis

<b>Codes</b>	TIA-222-H
<b>Basic Wind Speed</b>	119 mph, $V_{ult}$ (3-Second Gust)
<b>Basic Wind Speed w/ Ice</b>	50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating)
<b>Exposure Category</b>	B
<b>Topographic Factor Procedure:</b>	Method 2
<b>Feature:</b>	Flat
<b>Crest Height (H):</b>	0 ft
<b>Crest Length (L):</b>	0 ft
<b>Risk Category</b>	II
<b>Maintenance Live Load</b>	$L_M$ : 500 lb
<b>Spectral Response</b>	$S_S$ : 0.21; $S_1$ : 0.05; Site Class: D

## **Conclusion**

Based on the analysis, the antenna mount meets the requirements per the applicable codes listed above. 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:

**AT&T CONMAT does not have parts which connect HSS tube to pipe. Hence proposing additional parts not listed in conmat for mounting equipment on standoff.**

- **Replace existing T-Arms with (1) proposed Site Pro 1 RMQP-12-H5 (ANT.46132) Platform w/ HRK12-HD (ANT.51651) Support Rail Kit. Do not install work support platform below proposed platform mount.**
- **Install Site Pro 1 HRK12-HD (ANT.51651) Support Rail kit at 3'-6" above the existing platform horizontal pipe. Connect to all mount pipes using Site Pro 1 SCX2 crossover plate kits included in the Support Rail kit (12 total).**
- **Install (1) proposed 6 ft long pipe 2 STD, A53 Gr. B standoff mount pipe at each sector (3 total) as shown. Connect to existing standoff member using Site Pro 1 SQCX4-K crossover plate kits (3 total).**
- **Install proposed antennas such that they are vertically centered on platform base.**
- **All mount pipes are to be installed as shown in following sketches.**
- **Install (2) proposed secondary mount pipe 10 ft. long Pipe 2STD, A53 Gr. B at each sector for proposed panel configuration (6 total). Connect to primary mount pipe at position 2 and 4 using (1) Site Pro 1 DCP12K threaded rod kit (6 total).**

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

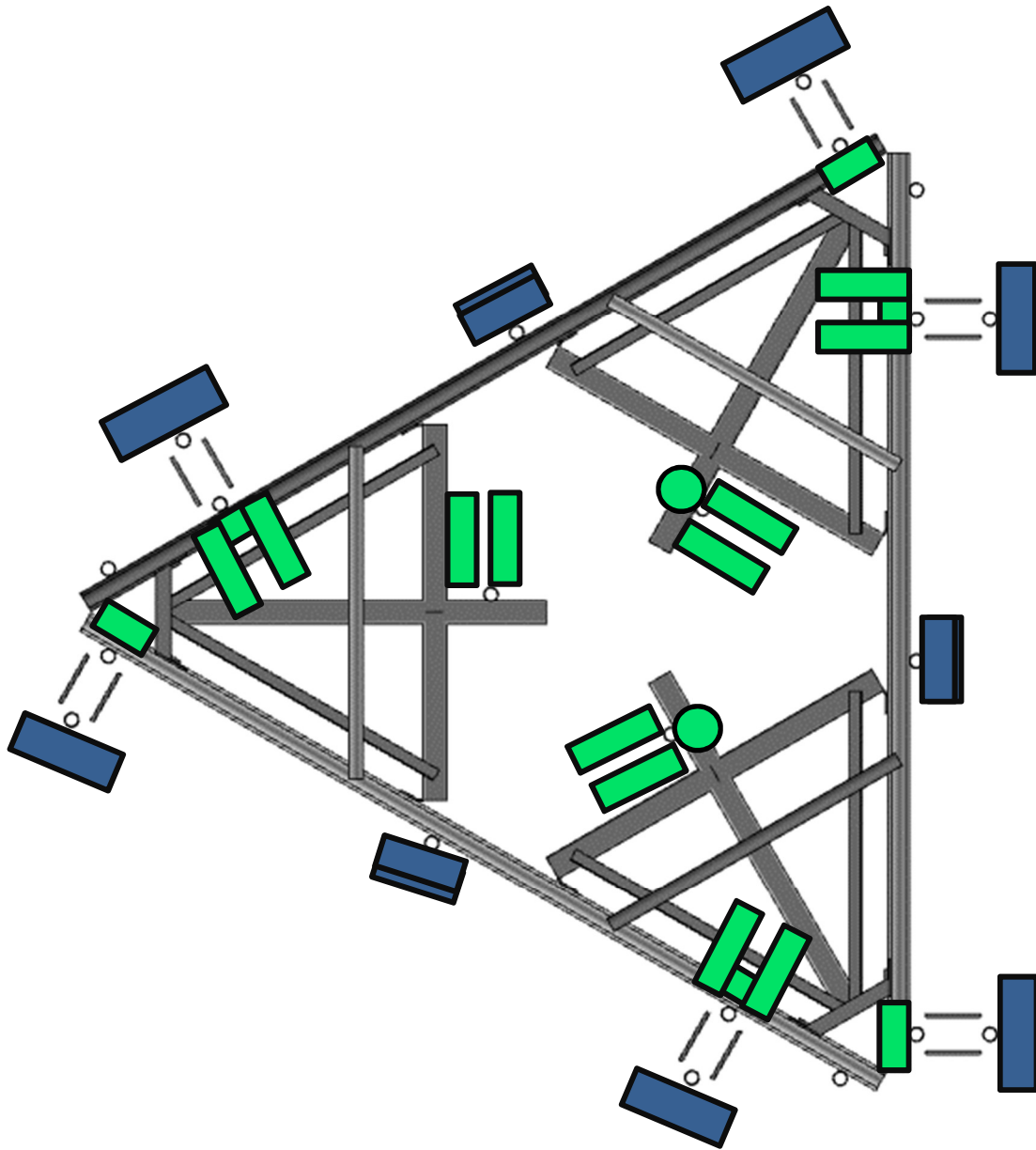
**Antenna Loading**

Elevation (ft)		Antennas	
Mount	Rad.	#	Name
118.8	119.0	3	Ericsson AIR 6449 B77D
	117.0	3	Quintel QD6616-7
		3	CCI DMP65R-BU6DA
		2	Raycap DC9-48-60-24-8C-EV
		3	Ericsson RRUS 32 B2
		3	Ericsson RRUS 32 B30
		3	Ericsson RRUS E2 B29
		3	Ericsson RRUS 4449 B5, B12
		3	Ericsson RRUS 4478 B14
		3	Ericsson RRUS 4426 B66
		1	Commscope WCS-IMFQ-AMT
	115.0	3	Ericsson AIR 6419 B77G

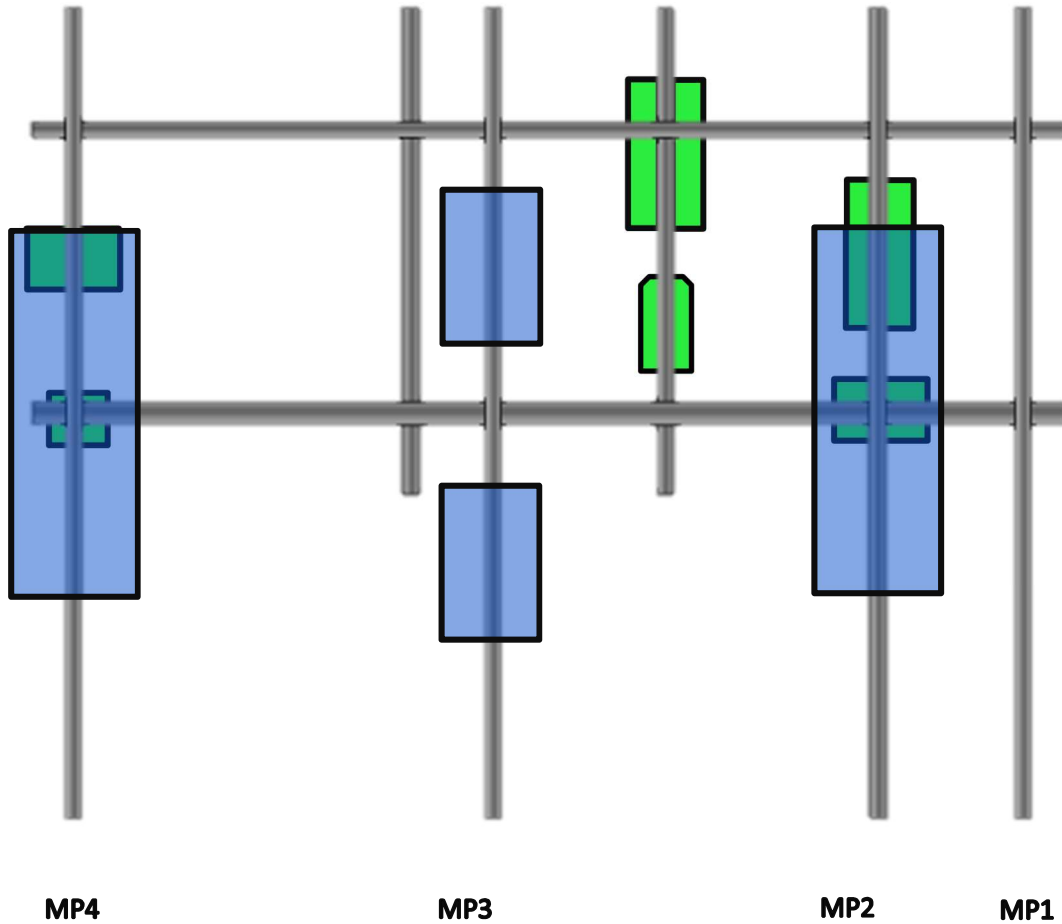
**Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Corner Plates	95%	Pass
Mount To Tower Plate Connections	84%	Pass
Mount Pipes	83%	Pass
Stand-Off Horizontals	83%	Pass
Threaded Rods	57%	Pass
Support Rail	55%	Pass
Platform Base	32%	Pass

Equipment Layout Plan View



**Equipment Layout Front Elevation View**



Total #	Equipment	Mount Pipe Position
3	Ericsson AIR 6449 B77D	P3 (Stacked)
3	Cci Antennas DMP65R-BU6DA	P4
3	Quintel QD6616-7	P2
2	Raycap DC9-48-60-24-8C-EV	Standoff Pipe
3	Ericsson RRUS 4449 B5, B12	Standoff Pipe
3	Ericsson RRUS E2 B29	P2
3	Ericsson RRUS 4426 B66	P2
3	Ericsson RRUS 32 B30	P4
3	Ericsson RRUS 32 B2	P2
3	Ericsson RRUS 4478 B14	Standoff Pipe
1	Commscope WCS-IMFQ-AMT	P4
3	Ericsson AIR 6419 B77G	P3 (Stacked)



### **Standard Conditions**

This analysis is inclusive of the antenna supporting frames/mounts and all recorded connections that will support the equipment listed in this report. It considers only the theoretical capacity of structural components and it is not a condition assessment. The validity of the analysis may be dependent on the accuracy of structural information supplied by others. The client is responsible for verifying this information. If any provided information is revised after completion of this analysis, Telamon Tower Engineering, PLLC should be notified immediately to revise results.

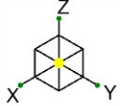
This analysis assumes the following:

1. The tower or other superstructure and mounts (if existing) were properly constructed as per the original design and have been properly maintained in accordance with applicable code standards.
2. Member sizes and strengths are accurate as supplied or are assumed as stated in the calculations.
3. In the absence of sufficient design information, all welds and connections are assumed to develop at least the capacity of the connected member, unless otherwise stated in this analysis.
4. All prior structural modifications, if any, are assumed to be correctly installed and fully effective.
5. The loading configuration is complete and accurate as supplied and/or as modeled in the previous analysis. All appurtenances are assumed to be properly installed and supported as per manufacturer requirements.
6. Some conservative assumptions may be used regarding appurtenances and their projected areas based on careful interpretation of data supplied, previous experience and standard industry practice.
7. Installation of all equipment and steel should be confirmed not to cause tower conflicts nor impede the tower climbing pegs.

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of the report. All opinions and conclusions contained herein are subject to revision based upon receipt of new or updated information. All services are provided exercising a level of care and diligence equivalent to the standard of our profession. No warranty or guarantee, either expressed or implied, is offered. All services are confidential in nature and this report will not be released to any other party without the client's consent. The use of this analysis is limited to the expressed purpose for which it was commissioned and it may not be reused, copied or disseminated for any other purpose without consent from Telamon Tower Engineering, PLLC.

All services were performed, results obtained and recommendations made in accordance with generally accepted engineering principles and practices. Telamon Tower Engineering, PLLC is not responsible for the conclusions, opinions or recommendations made by others based on the information supplied in this analysis.

It is not possible to have the fully detailed information necessary to perform a complete and thorough analysis of every structural sub-component of an existing structure. The structural analysis by Telamon Tower Engineering, PLLC verifies the adequacy of the primary members of the structure. Telamon Tower Engineering, PLLC provides a limited scope of service in that we cannot verify the adequacy of every weld, bolt, gusset, etc.

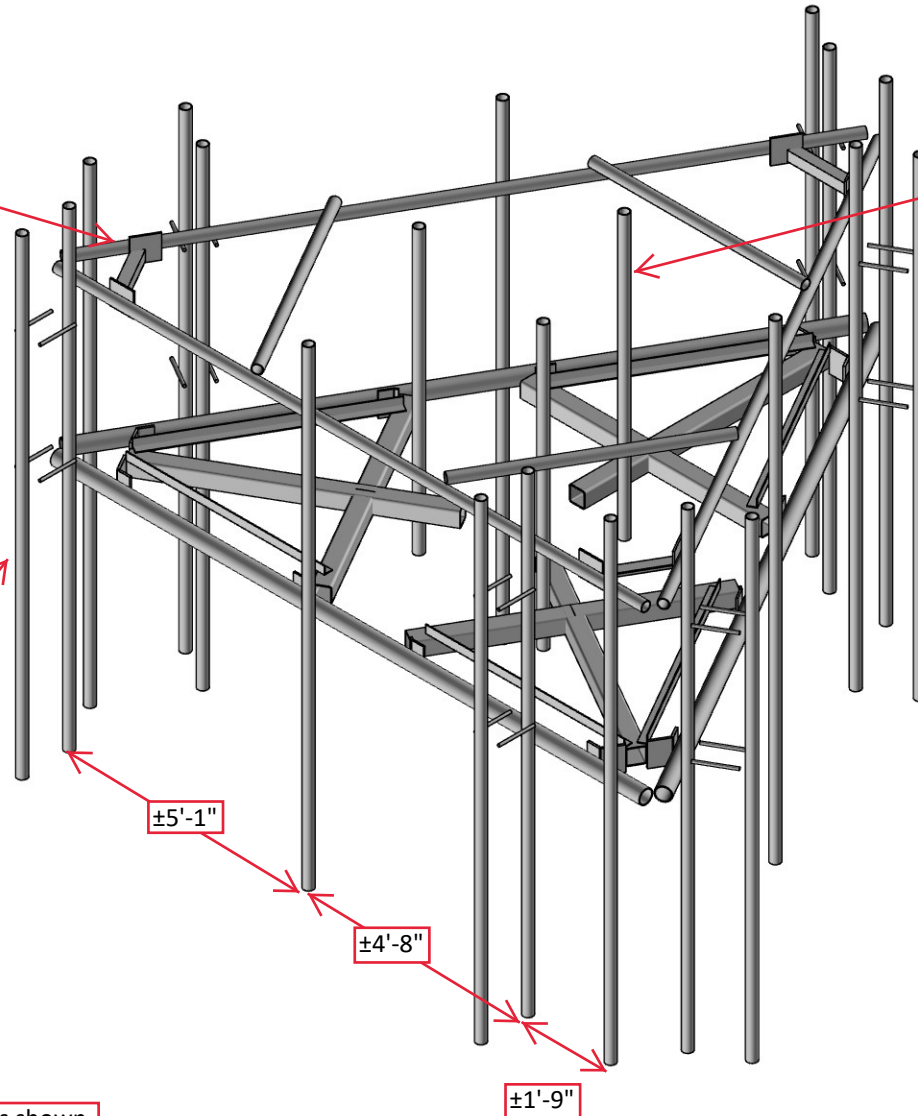


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Install (1) proposed 6 ft long pipe 2 STD, A53 Gr. B standoff mount pipe at each sector (3 total) as shown. Connect to existing standoff member using Site Pro 1 SQCX4-K crossover plate kits (3 total).

Install (2) proposed secondary mount pipe 10 ft. long Pipe 2STD, A53 Gr. B at each sector for proposed panel configuration (3 total). Connect to primary mount pipe at position 2 and 4 using (1) Site Pro 1 DCP12K threaded rod kit (6 total).



\*Note: All mount pipes are to be installed as shown in following sketches.

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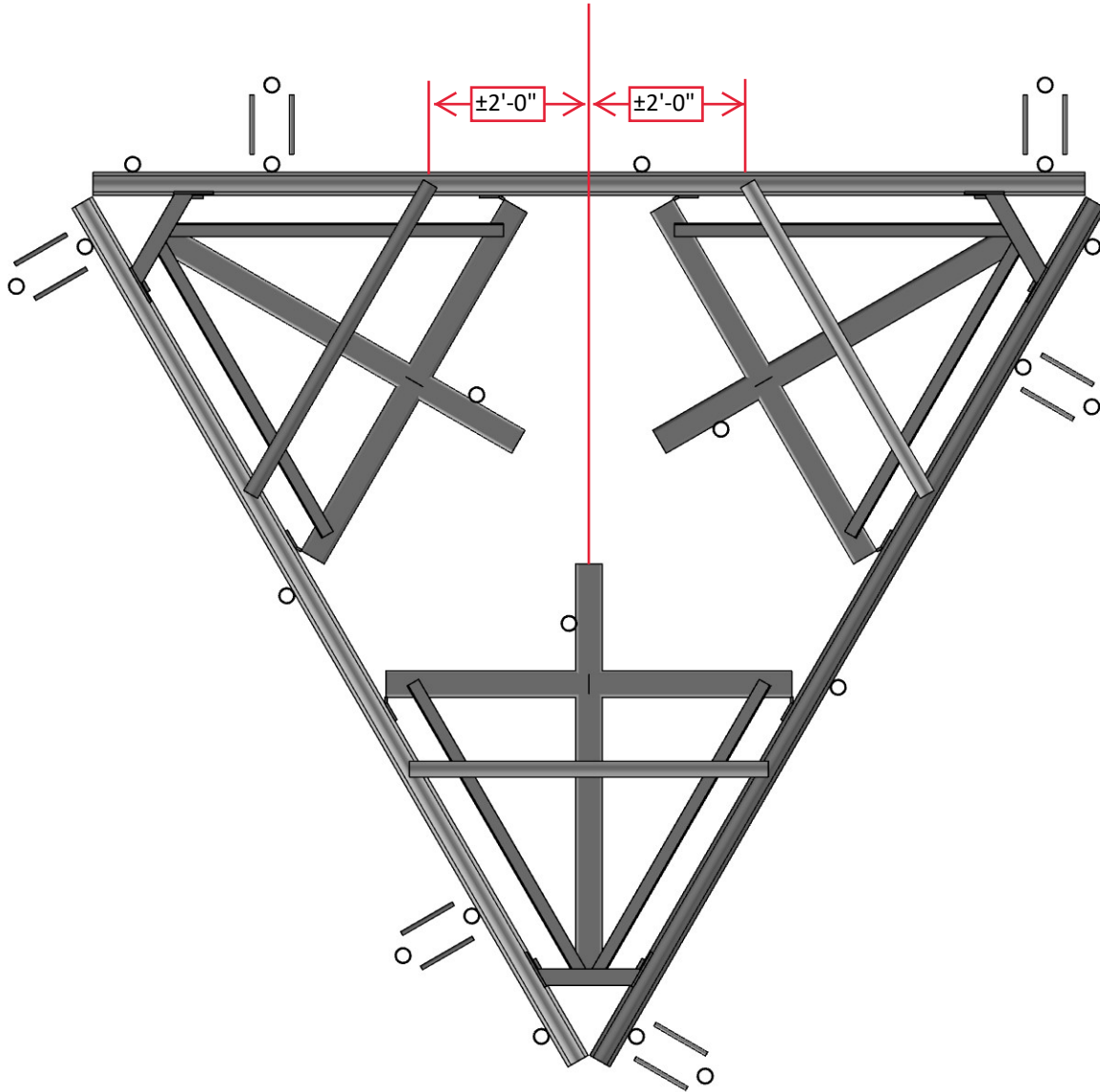
41124-13682835\_C8\_05-Stoneybrook Rd CT

Installation Sketch - Iso View

IN-1

Apr 07, 2022

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RY

41124-13682835\_C8\_05-02-MA

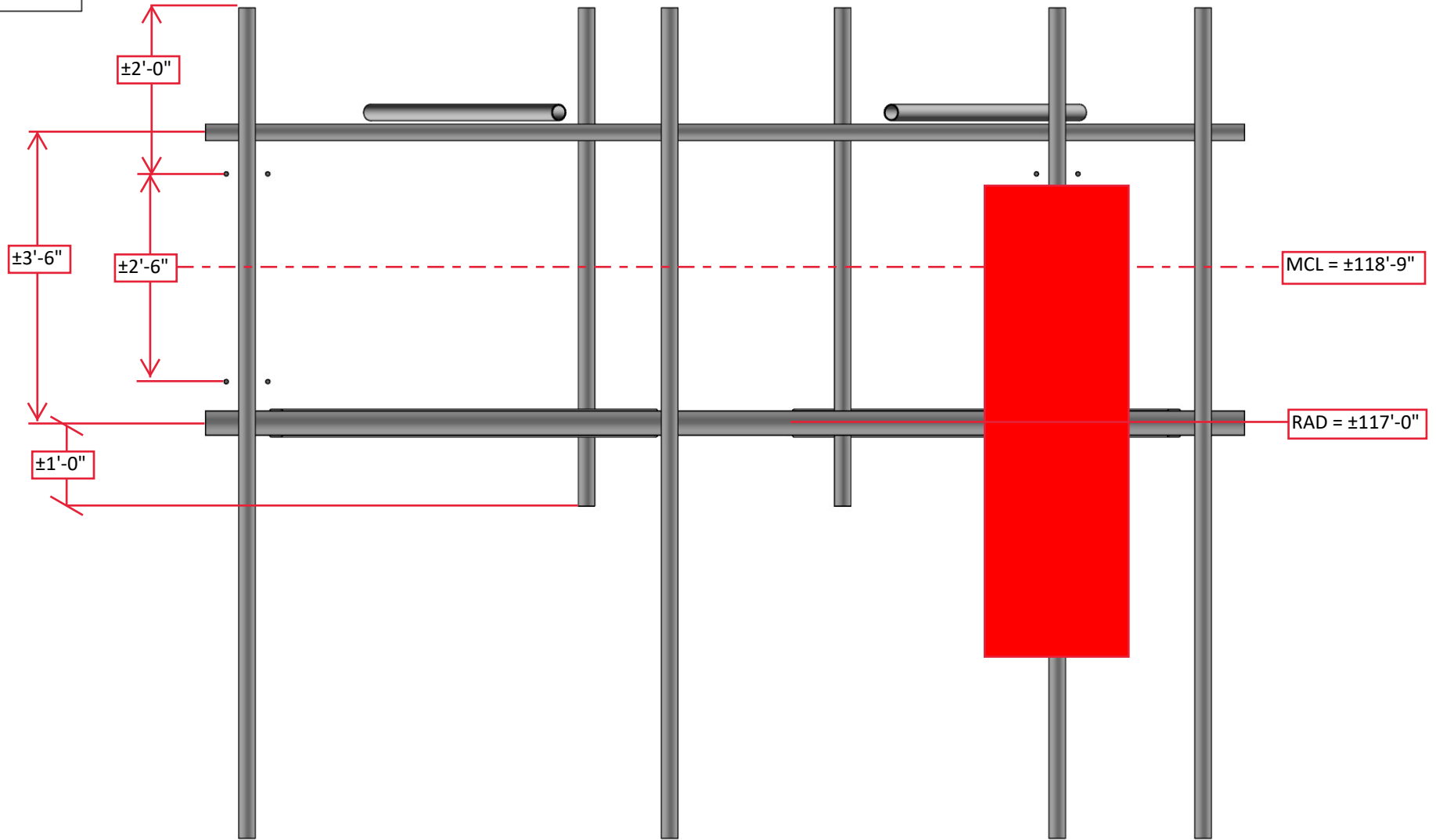
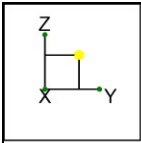
41124-13682835\_C8\_05-Stoneybrook Rd CT

Installation Sketch - Plan View

IN-2

Apr 07, 2022

41124-13682835\_C8\_05-02-MA.r3d



Telamon CLS

RY

41124-13682835\_C8\_05-02-MA

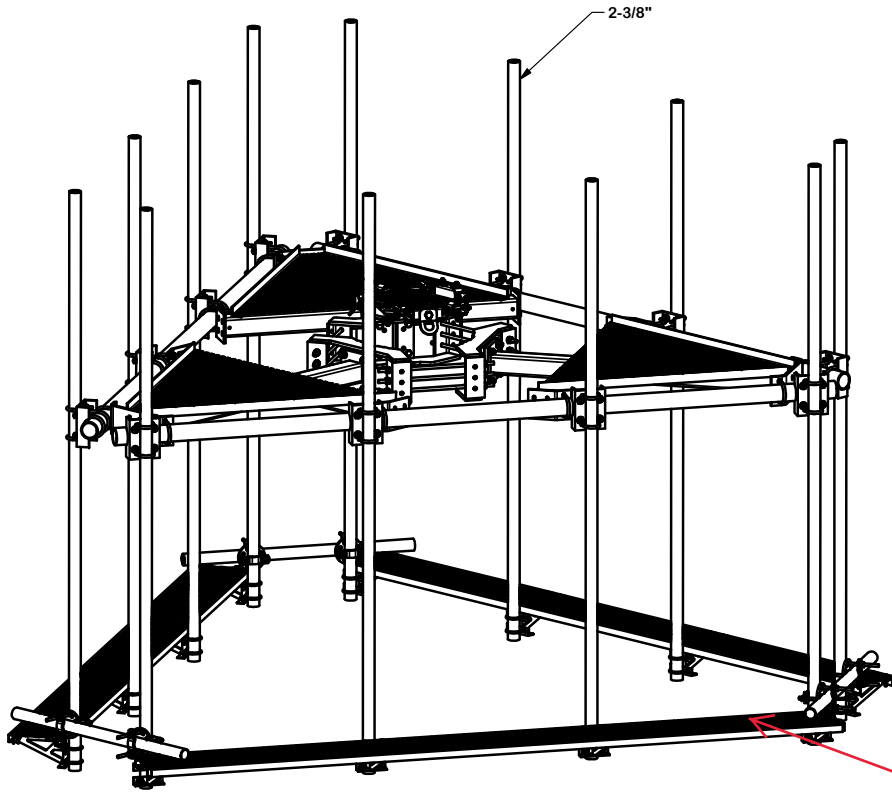
41124-13682835\_C8\_05-Stoneybrook Rd CT

Installation Sketch -Front View

IN-3

Apr 07, 2022

41124-13682835\_C8\_05-02-MA.r3d



Do not install work support platform below proposed platform mount.

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
2	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
3	12	X-SP219	SMALL SUPPORT CROSS PLATE	8 1/4 in	8.61	103.33
4	12	X-WWSB	WALKWAY SUPPORT BRACKET		6.73	80.75
5	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.51	15.04
6	12	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.91	10.95
7	12	P2120	2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE	120 in	36.61	439.38
8	3	P3150	3-1/2" X 150" (3" SCH 40) GALVANIZED PIPE	150 in	94.80	284.40
9	3	P248	2-3/8" X 63" SCH 40 GALVANIZED PIPE	63 in	20.18	60.55
10	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	3.59
10	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	3.59
11	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	4.27
12	12	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.41
13	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
14	30	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.90
15	3	GRS12-12	12" WIDE GRIP STRUT	120 in	31.00	93.00
16	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	29.82
17	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	15.00
18	12	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	3.24
19	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
20	144	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	4.91
21	144	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	2.00
22	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
23	24	X-UB3212	3/8" X 2-1/2" X 3-5/8" X 1-3/4" U-BOLT (HDG.)		0.29	6.97
24	48	G3802	3/8" x 2" HDG HEX BOLT GR5		0.09	4.21
25	48	SQW38	3/8" SQUARE WASHER	2 in	0.29	13.89
26	96	G38FW	3/8" HDG USS FLATWASHER		0.01	1.13
27	96	G38LW	3/8" HDG LOCKWASHER		0.01	0.64
28	96	G38NUT	3/8" HDG HEAVY 2H HEX NUT		0.03	3.25
29	1	HALO	HALO		40.35	40.35
					TOTAL WT. #	2136.59

**TOLERANCE NOTES**

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES ( $\pm 0.030"$ )  
 DRILLED AND GAS CUT HOLES ( $\pm 0.030"$ ) - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES ( $\pm 0.010"$ ) - NO CONING OF HOLES  
 BENDS ARE  $\pm 1/2$  DEGREE  
 ALL OTHER MACHINING ( $\pm 0.030"$ )  
 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

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DESCRIPTION		RMQP-12-H5
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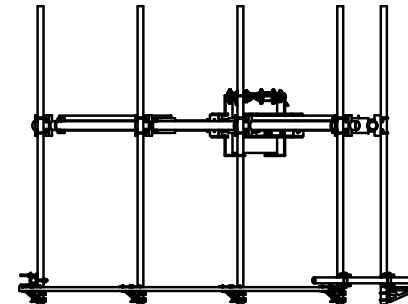
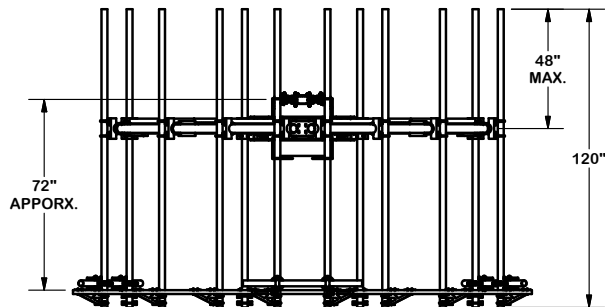
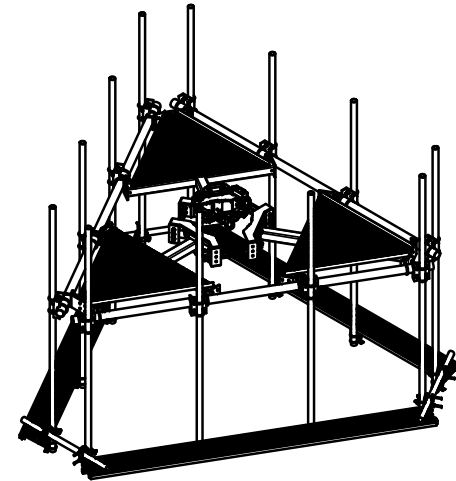
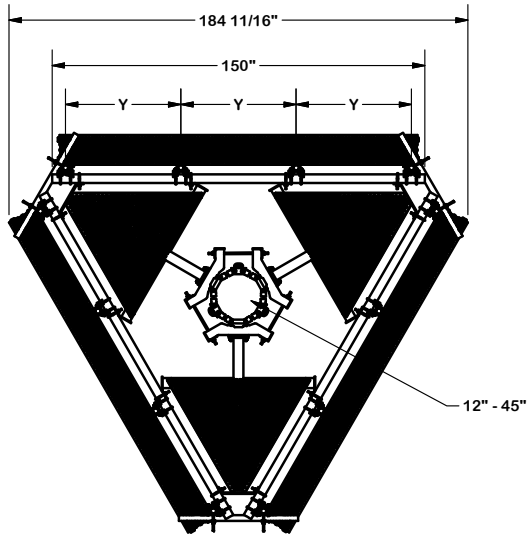
**SITE PRO 1**  
 Engineering Support Team:  
 1-888-753-7446

Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX

A valmont COMPANY

CPD NO.	DRAWN BY	ENG. APPROVAL
	CEK 11/1/2017	
CLASS	DRAWING USAGE	CHECKED BY
	CUSTOMER	

PART NO.	RMQP-12-H5	PAGE
DWG. NO.	RMQP-12-H5	1 OF 3



**TOLERANCE NOTES**

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 ALL OTHER ASSEMBLY ( $\pm 0.060$ " )**

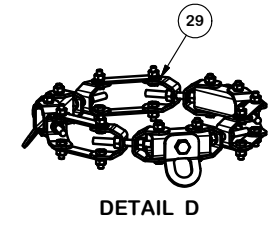
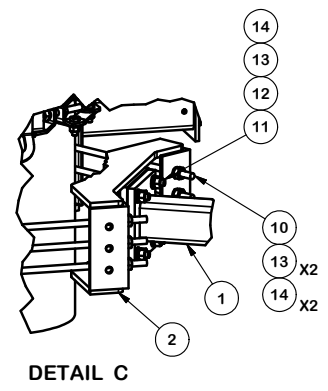
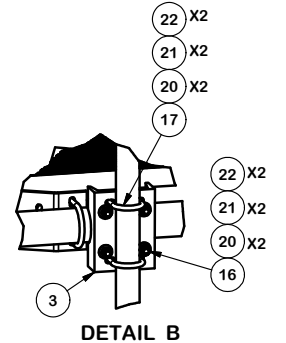
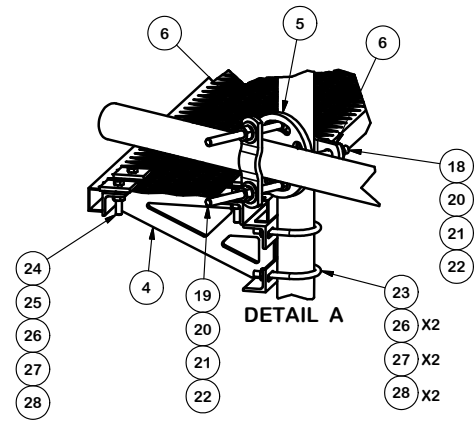
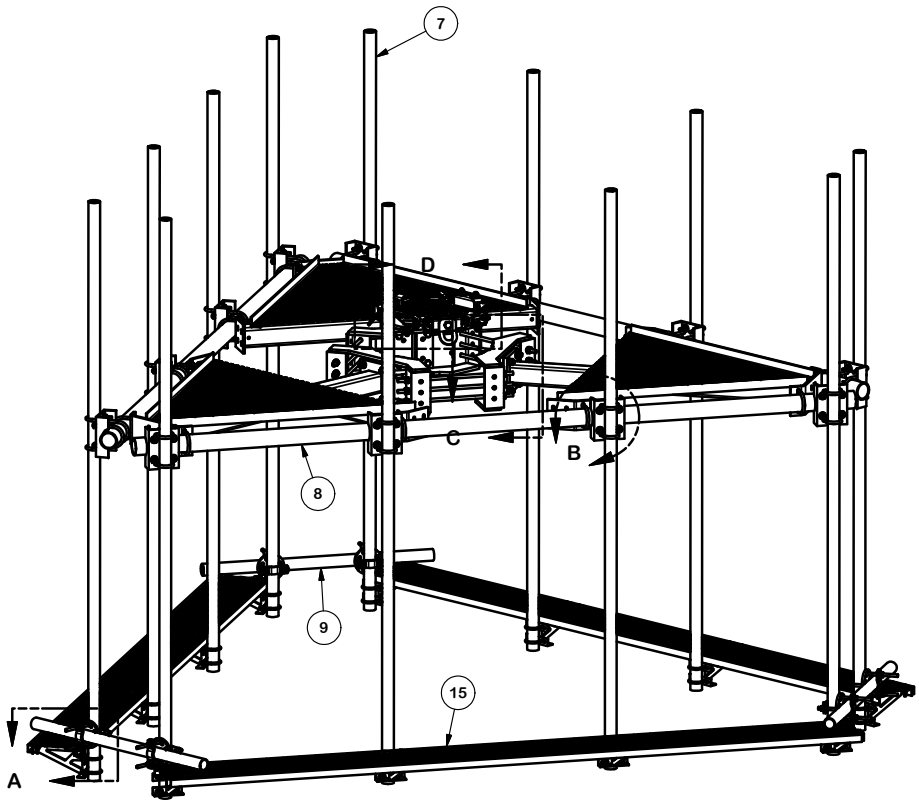
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DESCRIPTION	
RMQP-12-H5	

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	A valmont COMPANY	

CPD NO.	DRAWN BY CEK 11/1/2017	ENG. APPROVAL
CLASS	DRAWING USAGE CUSTOMER	CHECKED BY

PART NO.	RMQP-12-H5	PAGE 2 OF 3
DWG. NO.	RMQP-12-H5	



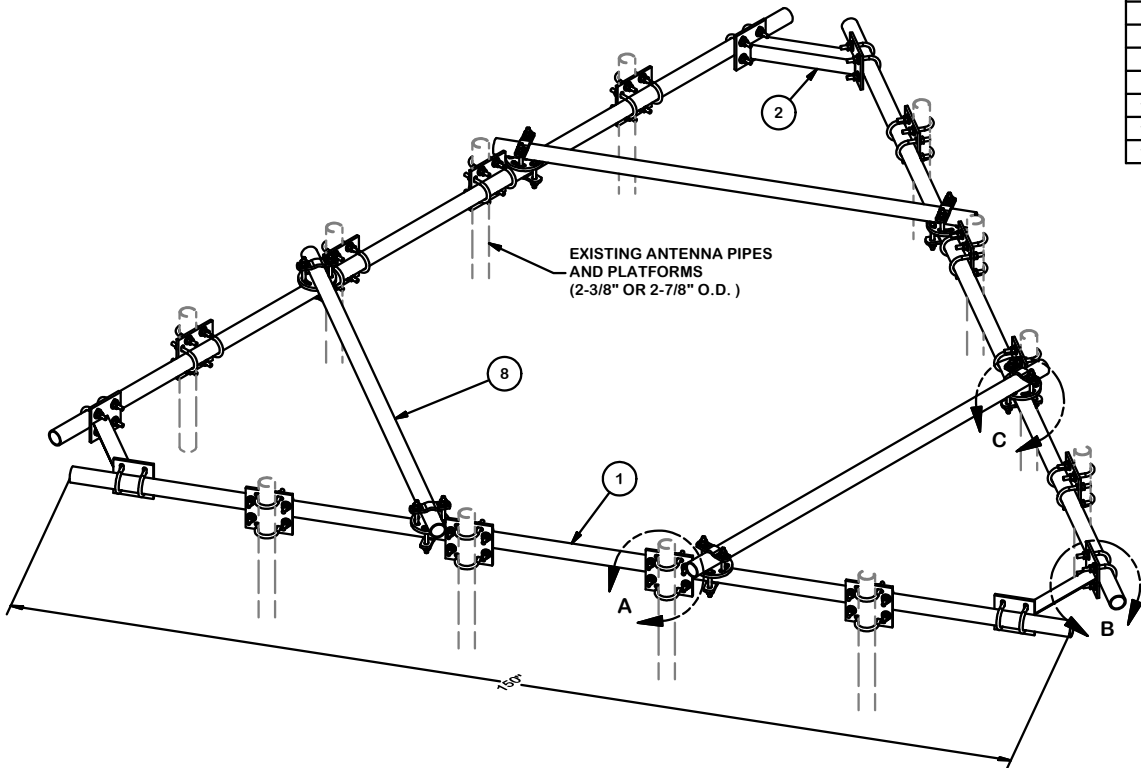
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 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

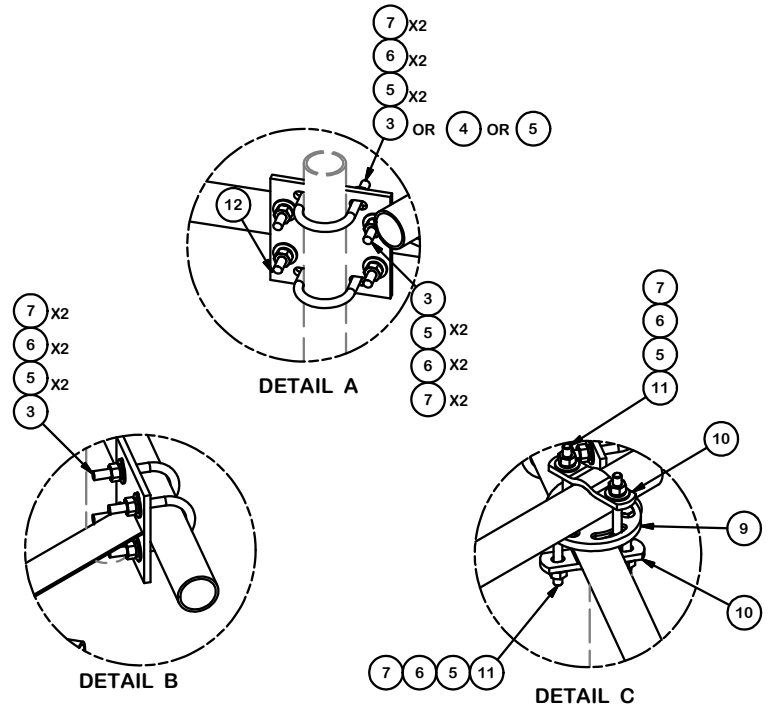
PROPRIETARY NOTE:  
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DESCRIPTION		RMQP-12-H5	
CPD NO.	DRAWN BY	ENG. APPROVAL	
	CEK 11/1/2017		
CLASS	SUB	DRAWING USAGE	CHECKED BY
		CUSTOMER	

 Engineering Support Team: 1-888-753-7446	Locations:	New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	PART NO.	
DWG. NO.	RMQP-12-H5	PAGE
		3 OF 3



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2150	2-3/8" OD X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	15.42
4	24	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.26	6.17
5	144	G12FW	1/2" HDG USS FLATWASHER		0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER		0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P272	2-3/8" X 72" SCH 40 GALVANIZED PIPE	72 in	23.07	69.20
9	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.48	14.90
10	12	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	10.95
11	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
TOTAL WT. #						406.61



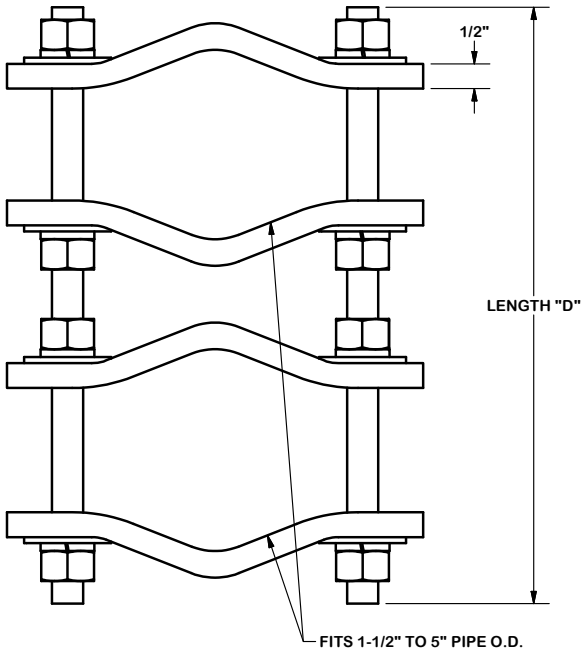
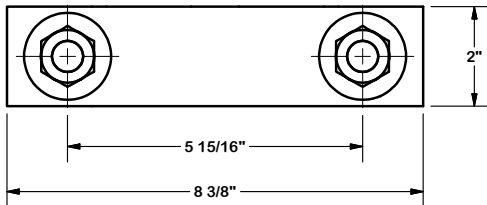
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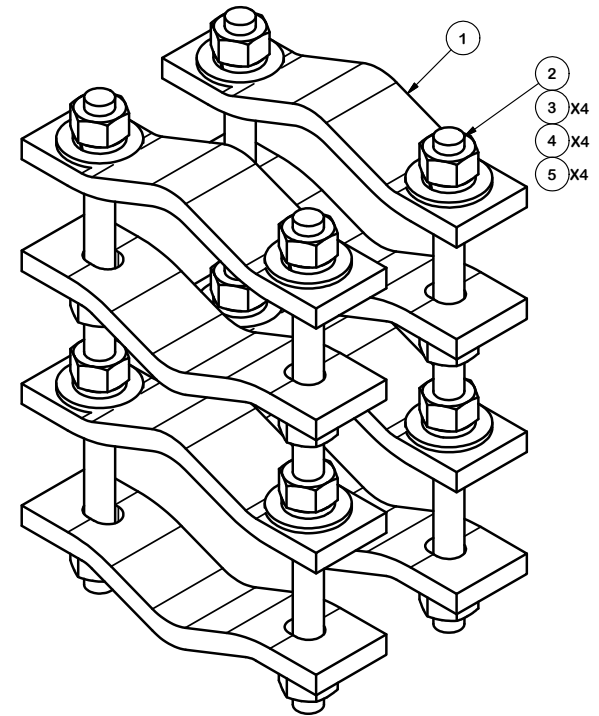
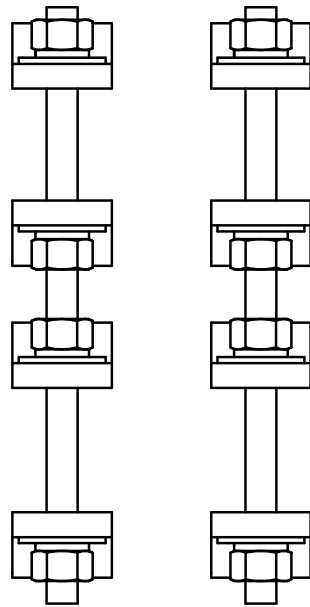
DESCRIPTION		HEAVY DUTY HANDRAIL KIT FOR 12' PLATFORMS WITH 2-3/8" OR 2-7/8" ANTENNA PIPES	
CPD NO.	DRAWN BY	ENG. APPROVAL	
	CEK 3/31/2015		
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	01	CUSTOMER	BMC 3/31/2015

 <b>A valmont COMPANY</b>	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	Engineering Support Team: 1-888-753-7446
PART NO.	HRK12-HD
DWG. NO.	HRK12-HD





FITS 1-1/2" TO 5" PIPE O.D.



PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	8	DCP	CLAMP HALF, 1/2" THICK, 8-3/8"		2.40	19.20
2	B	C	5/8" THREADED ROD	D	E	F
3	16	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	2.08
4	16	G58LW	5/8" HDG LOCKWASHER		0.03	0.42
5	16	G58FW	5/8" HDG USS FLATWASHER		0.07	1.13

VARIABLE PARTS TABLE

ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	UNIT WT. "E"	NET WT. "F"	TOTAL WEIGHT
DCP12K	4	G58R-12	12"	1.05	4.18	27.01
DCP18K	4	G58R-18	18"	1.57	6.27	29.10

TOLERANCE NOTES

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 ALL OTHER ASSEMBLY ( $\pm 0.060"$ )

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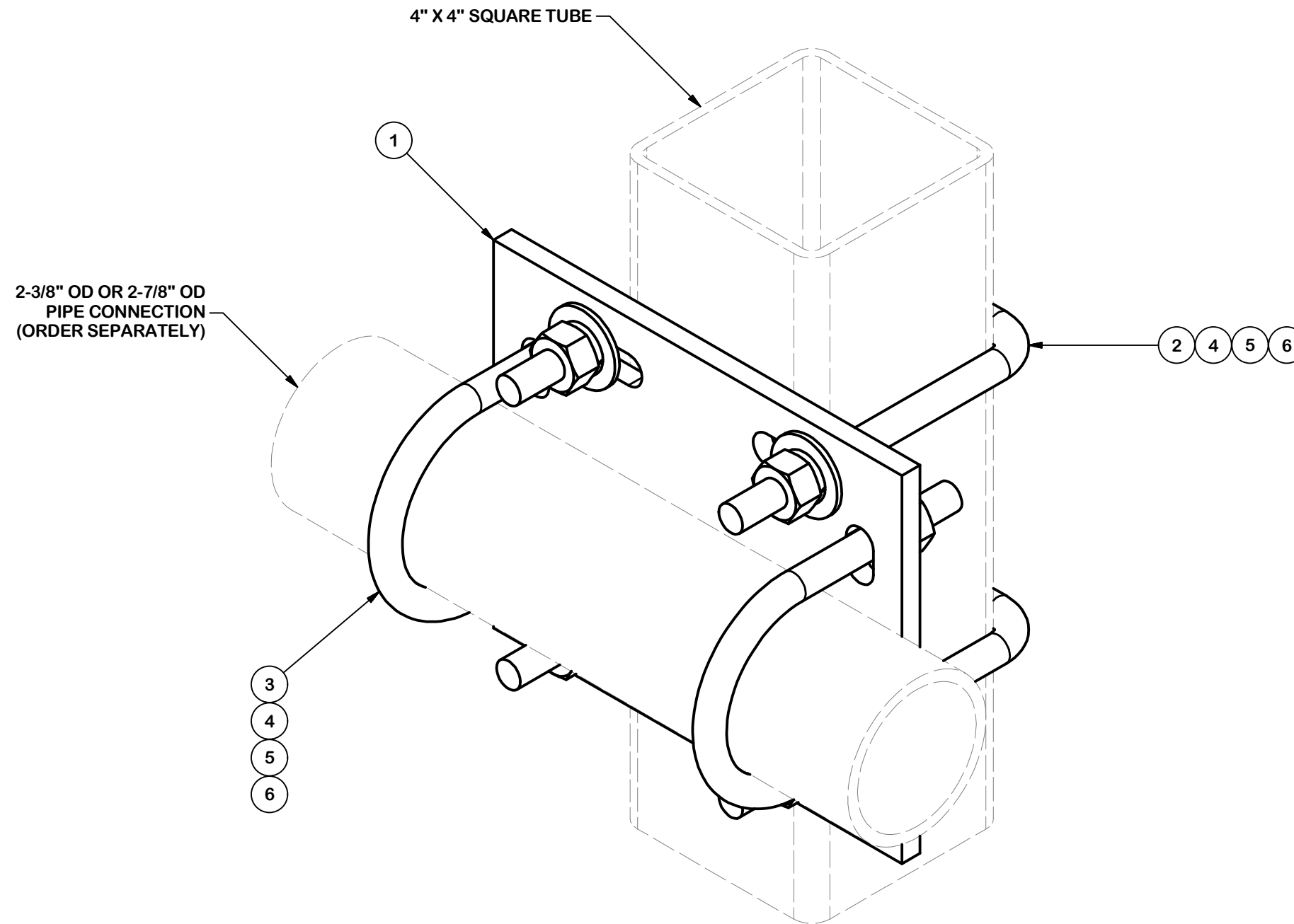
DESCRIPTION  
 PIPE TO PIPE CLAMP SET  
 1-1/2" TO 5" PIPE  
 1/2" THICK CLAMP

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CPD NO.	DRAWN BY	ENG. APPROVAL
	KC8 8/21/2012	
CLASS	DRAWING USAGE	CHECKED BY
81	CUSTOMER	CEK 1/22/2013

PART NO.	SEE ASSEMBLY "A"
DWG. NO.	DCPxxK

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	6.02
2	2	X-SUB1418	SQUARE U-BOLT 0.5" DIA. X 4.125" IW X 6" IL X 3" TR		0.98	1.95
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	1.19
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.67	1.34
4	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	11.35



**TOLERANCE NOTES**

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DESCRIPTION  
**CROSSOVER PLATE KIT  
 W/ SQUARE U-BOLTS AND STD. U-BOLTS**

CPD NO.	DRAWN BY	ENG. APPROVAL
	CSL 9/18/2018	3RD PARTY
CLASS	DRAWING USAGE	CHECKED BY
87	CUSTOMER	BMC 11/12/2018

**SITE PRO 1**  
 A valmont COMPANY

Engineering Support Team:  
 1-888-753-7446

Locations:  
 New York, NY  
 Atlanta, GA  
 Los Angeles, CA  
 Plymouth, IN  
 Salem, OR  
 Dallas, TX

PART NO.	<b>SQCX4-K</b>
DWG. NO.	<b>SQCX4-K</b>



### Standard Conditions

This analysis is inclusive of the antenna supporting frames/mounts and all recorded connections that will support the equipment listed in this report. It considers only the theoretical capacity of structural components and it is not a condition assessment. The validity of the analysis may be dependent on the accuracy of structural information supplied by others. The client is responsible for verifying this information. If any provided information is revised after completion of this analysis, Telamon Tower Engineering, PLLC should be notified immediately to revise results.

This analysis assumes the following:

1. The tower or other superstructure and mounts (if existing) were properly constructed as per the original design and have been properly maintained in accordance with applicable code standards.
2. Member sizes and strengths are accurate as supplied or are assumed as stated in the calculations.
3. In the absence of sufficient design information, all welds and connections are assumed to develop at least the capacity of the connected member, unless otherwise stated in this analysis.
4. All prior structural modifications, if any, are assumed to be correctly installed and fully effective.
5. The loading configuration is complete and accurate as supplied and/or as modeled in the previous analysis. All appurtenances are assumed to be properly installed and supported as per manufacturer requirements.
6. Some conservative assumptions may be used regarding appurtenances and their projected areas based on careful interpretation of data supplied, previous experience and standard industry practice.
7. Installation of all equipment and steel should be confirmed not to cause tower conflicts nor impede the tower climbing pegs.

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of the report. All opinions and conclusions contained herein are subject to revision based upon receipt of new or updated information. All services are provided exercising a level of care and diligence equivalent to the standard of our profession. No warranty or guarantee, either expressed or implied, is offered. All services are confidential in nature and this report will not be released to any other party without the client's consent. The use of this analysis is limited to the expressed purpose for which it was commissioned and it may not be reused, copied or disseminated for any other purpose without consent from Telamon Tower Engineering, PLLC.

All services were performed, results obtained and recommendations made in accordance with generally accepted engineering principles and practices. Telamon Tower Engineering, PLLC is not responsible for the conclusions, opinions or recommendations made by others based on the information supplied in this analysis.

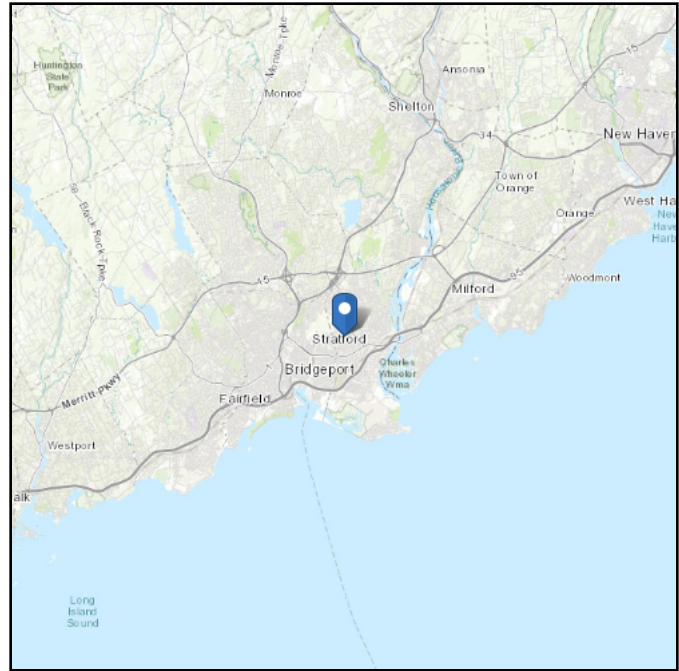
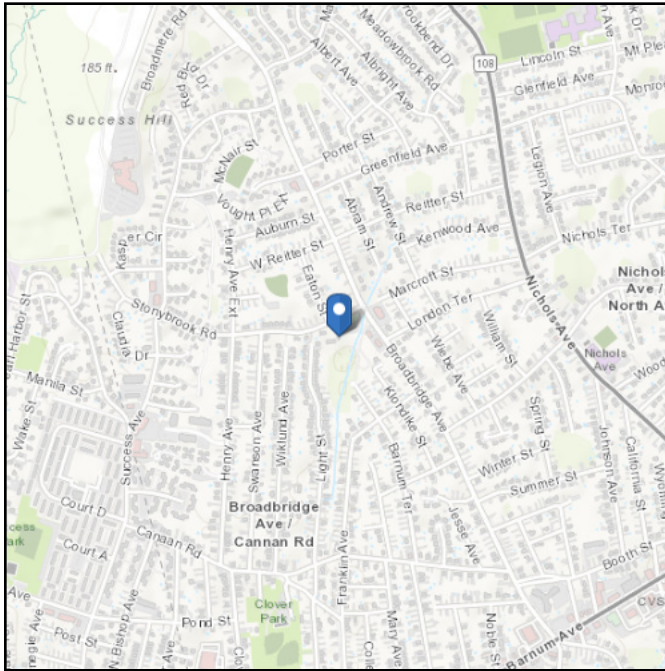
It is not possible to have the fully detailed information necessary to perform a complete and thorough analysis of every structural sub-component of an existing structure. The structural analysis by Telamon Tower Engineering, PLLC verifies the adequacy of the primary members of the structure. Telamon Tower Engineering, PLLC provides a limited scope of service in that we cannot verify the adequacy of every weld, bolt, gusset, etc.

# ASCE 7 Hazards Report

**Address:**  
55 Stonybrook Rd  
Stratford, Connecticut  
06614

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Default (see Section 11.4.3)

**Elevation:** 76.8 ft (NAVD 88)  
**Latitude:** 41.203275  
**Longitude:** -73.149012



## Wind

### Results:

Wind Speed	119 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Tue Jan 11 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

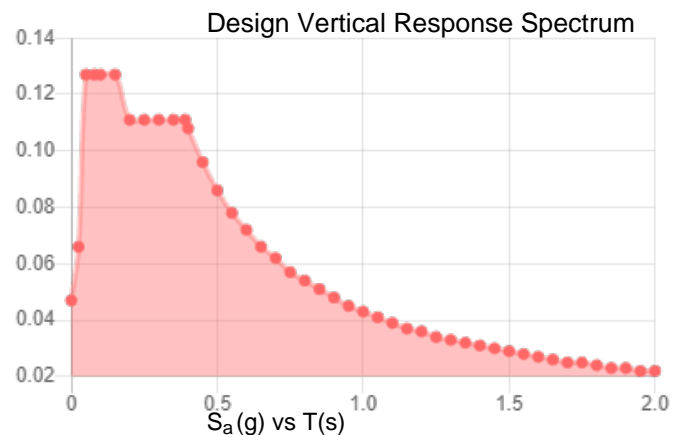
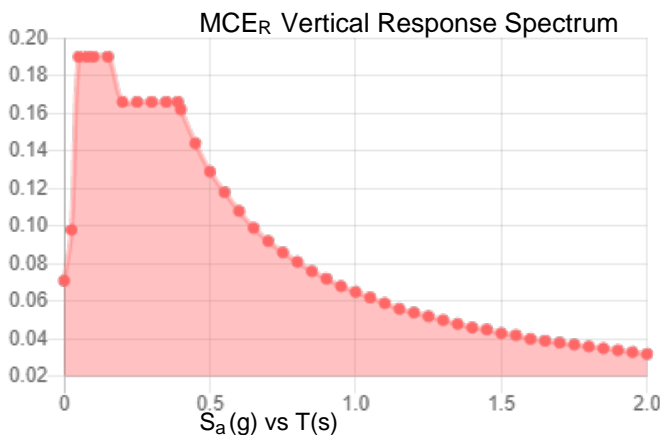
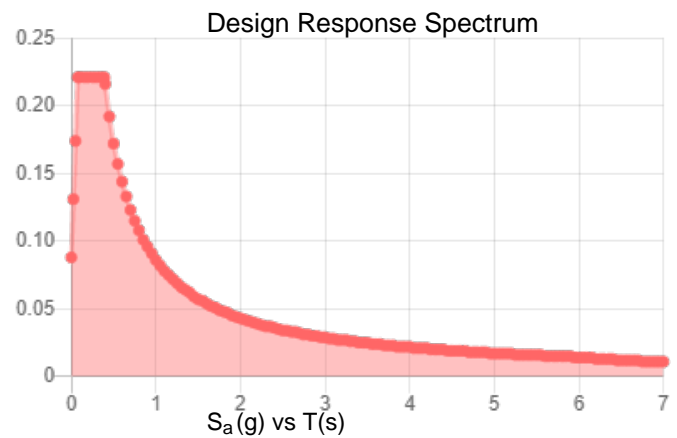
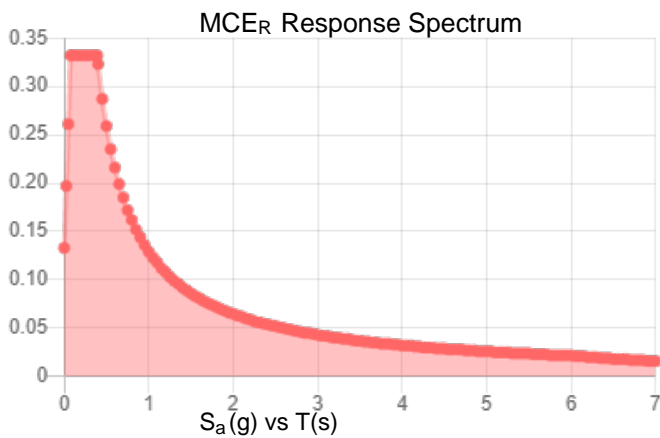
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:** D - Default (see Section 11.4.3)

**Results:**

$S_s$ :	0.207	$S_{D1}$ :	0.086
$S_1$ :	0.054	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.118
$F_v$ :	2.4	PGA <sub>M</sub> :	0.184
$S_{MS}$ :	0.332	$F_{PGA}$ :	1.565
$S_{M1}$ :	0.129	$I_e$ :	1
$S_{DS}$ :	0.221	$C_v$ :	0.715

**Seismic Design Category** B



**Data Accessed:** Tue Jan 11 2022

**Date Source:**

**USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.**

## Ice

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**Results:**

Ice Thickness: 1.00 in.  
Concurrent Temperature: 15 F  
Gust Speed 50 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Tue Jan 11 2022

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

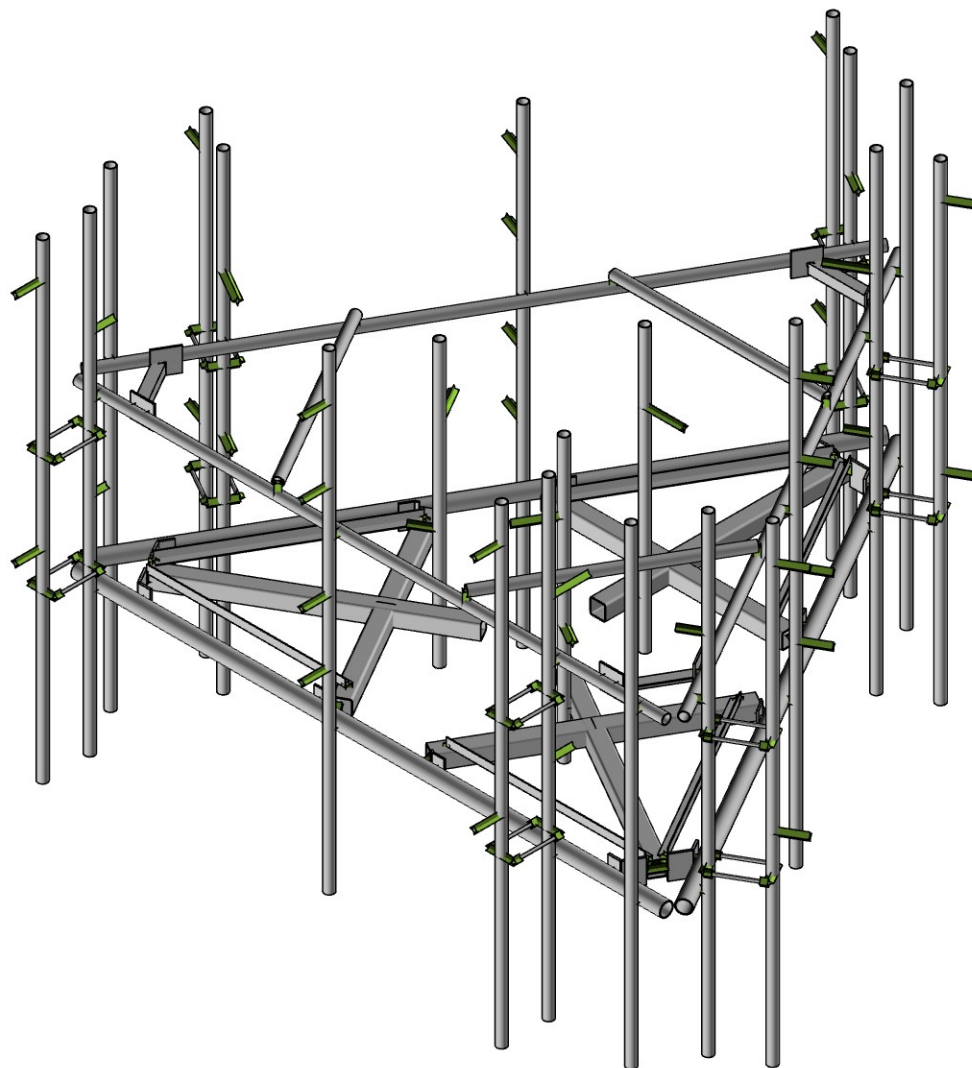
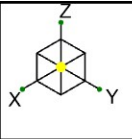
Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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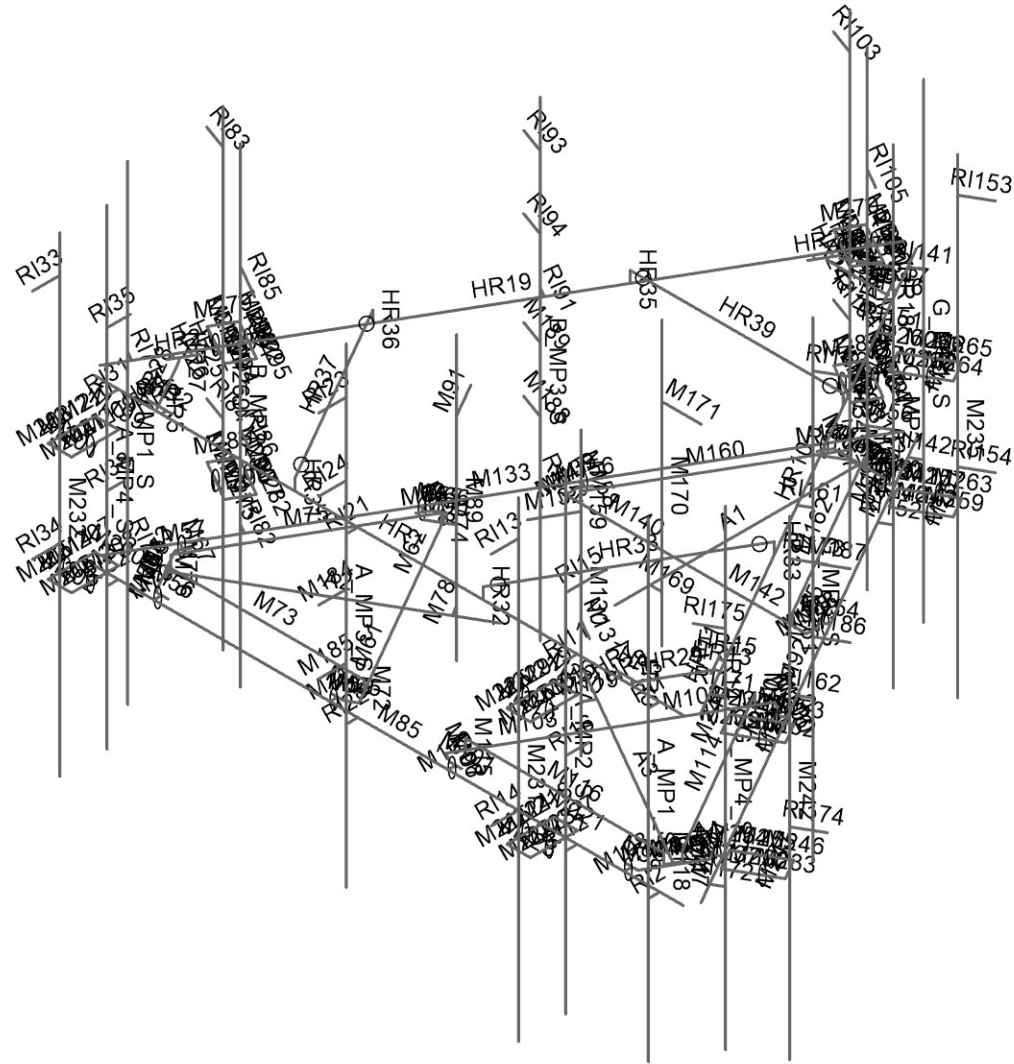
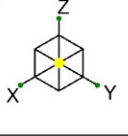
Telamon CLS  
RY  
41124-13682835\_C8\_05-02-MA

41124-13682835\_C8\_05-Stoneybrook Rd CT  
Rendered

SK-1  
Apr 07, 2022  
41124-13682835\_C8\_05-02-MA.r3d





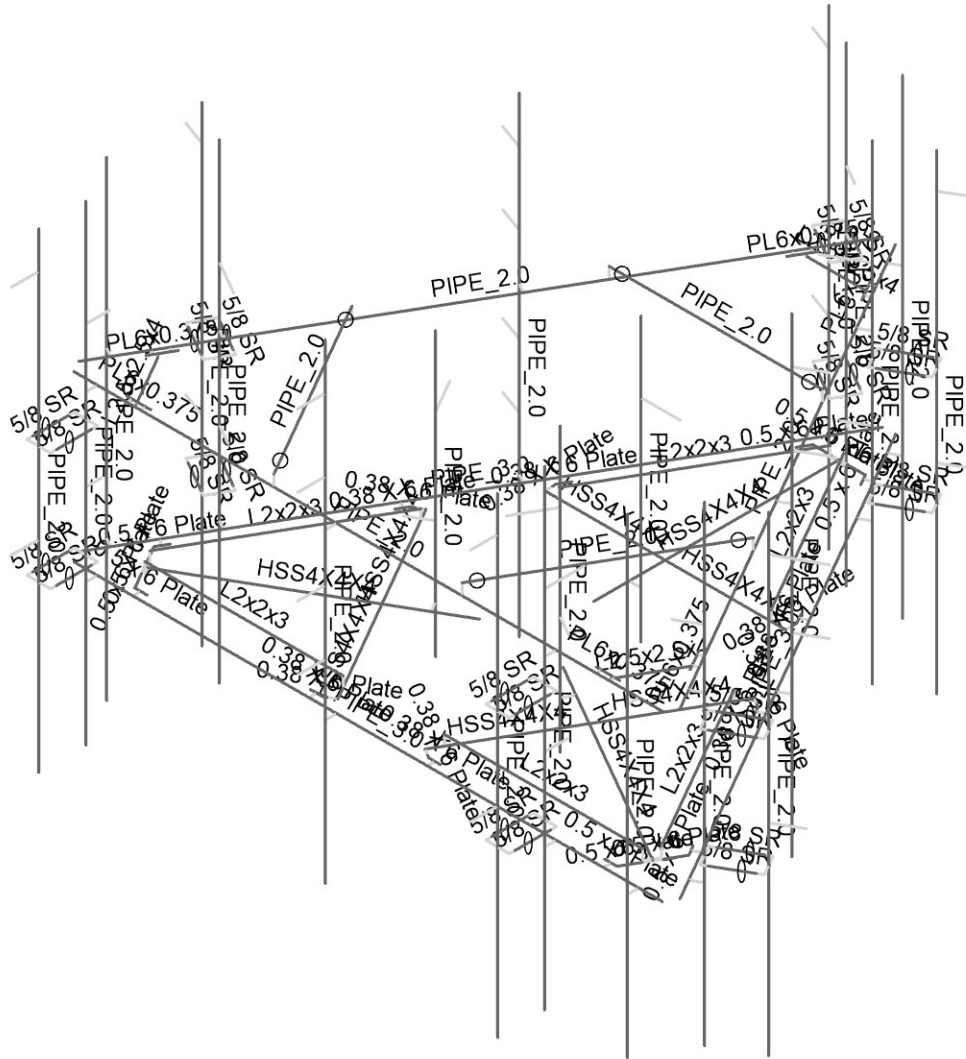
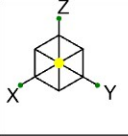


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41124-13682835\_C8\_05-Stoneybrook Rd CT  
 Member Labels

SK-3  
 Apr 07, 2022  
 41124-13682835\_C8\_05-02-MA.r3d



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RY

41124-13682835\_C8\_05-02-MA

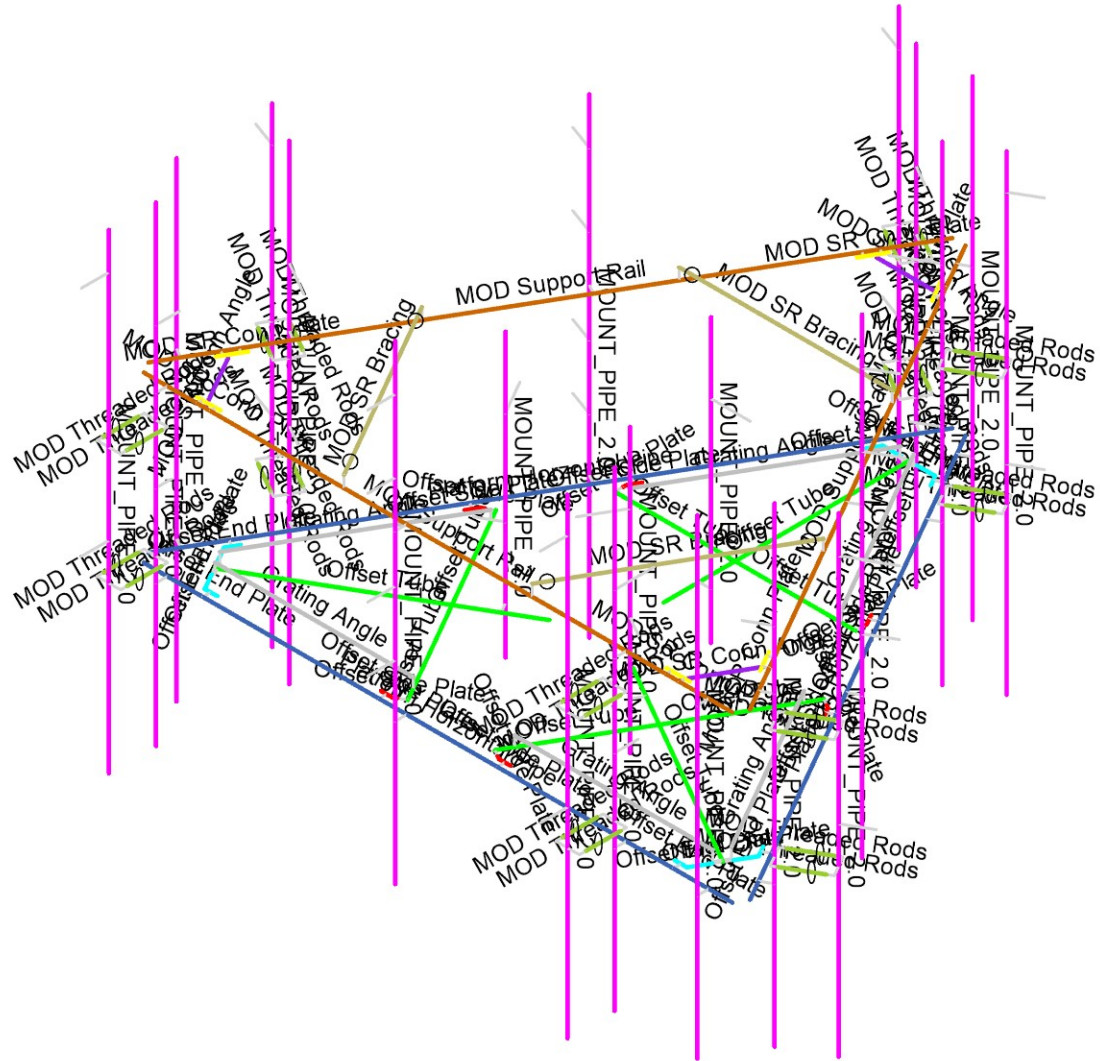
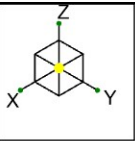
41124-13682835\_C8\_05-Stoneybrook Rd CT

Member Shapes

SK-3.1

Apr 07, 2022

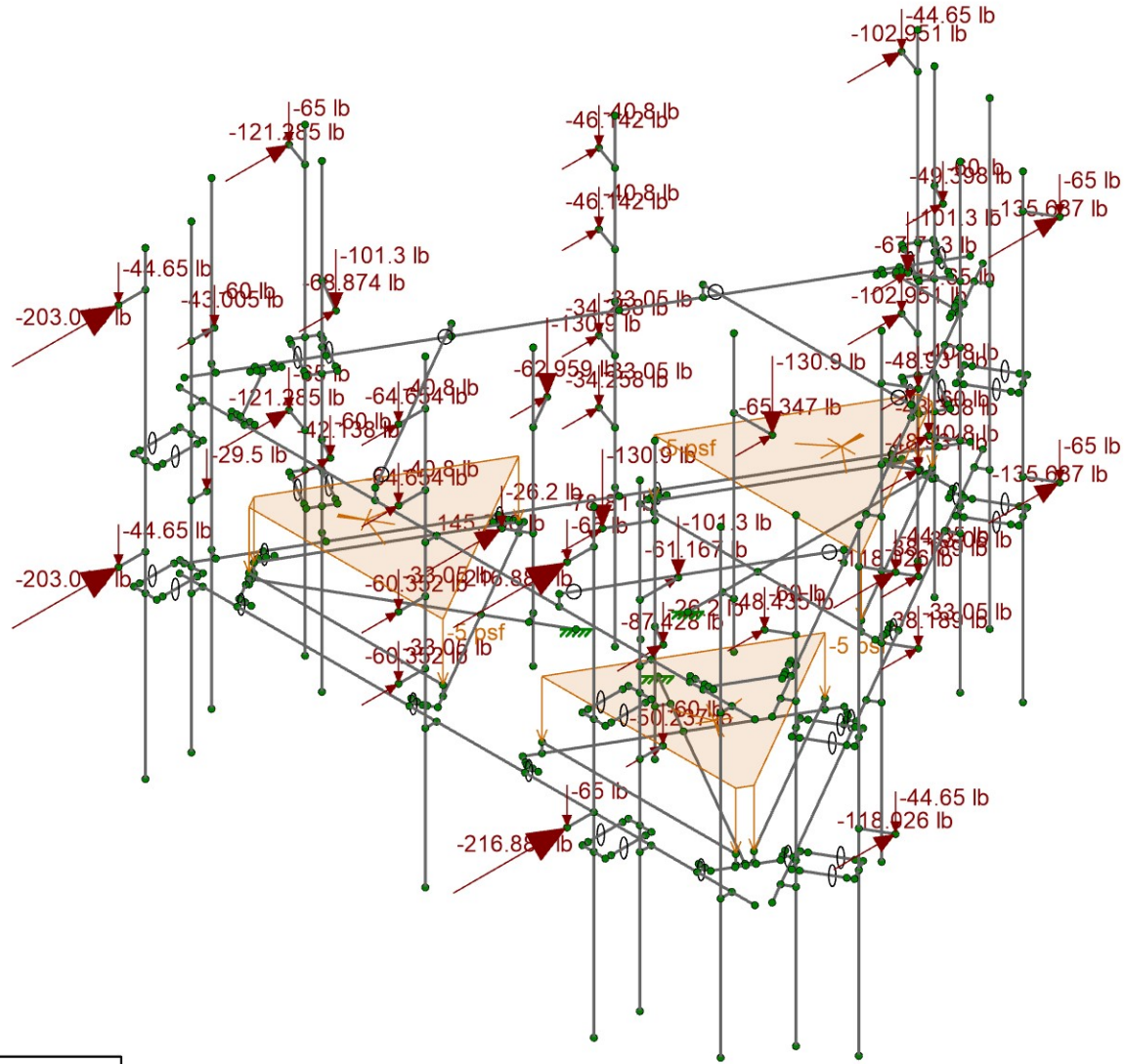
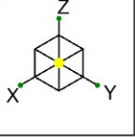
41124-13682835\_C8\_05-02-MA.r3d



Section Sets	
<span style="color: blue;">■</span>	Platform Horizontal Pipe
<span style="color: green;">■</span>	Offset Tube
<span style="color: red;">■</span>	Offset Side Plate
<span style="color: grey;">■</span>	Grating Angle
<span style="color: magenta;">■</span>	MOUNT_PIPE_2.0
<span style="color: cyan;">■</span>	Offset End Plate
<span style="color: brown;">■</span>	MOD Support Rail
<span style="color: yellow;">■</span>	MOD SR Conn Plate
<span style="color: purple;">■</span>	MOD SR Conn Angle
<span style="color: olive;">■</span>	MOD SR Bracing
<span style="color: lightgreen;">■</span>	MOD Threaded Rods
<span style="color: pink;">■</span>	RIGID

Envelope Only Solution

Telamon CLS	41124-13682835_C8_05-Stoneybrook Rd CT	SK-4
RY		Apr 07, 2022
41124-13682835_C8_05-02-MA	Section Sets	41124-13682835_C8_05-02-MA.r3d

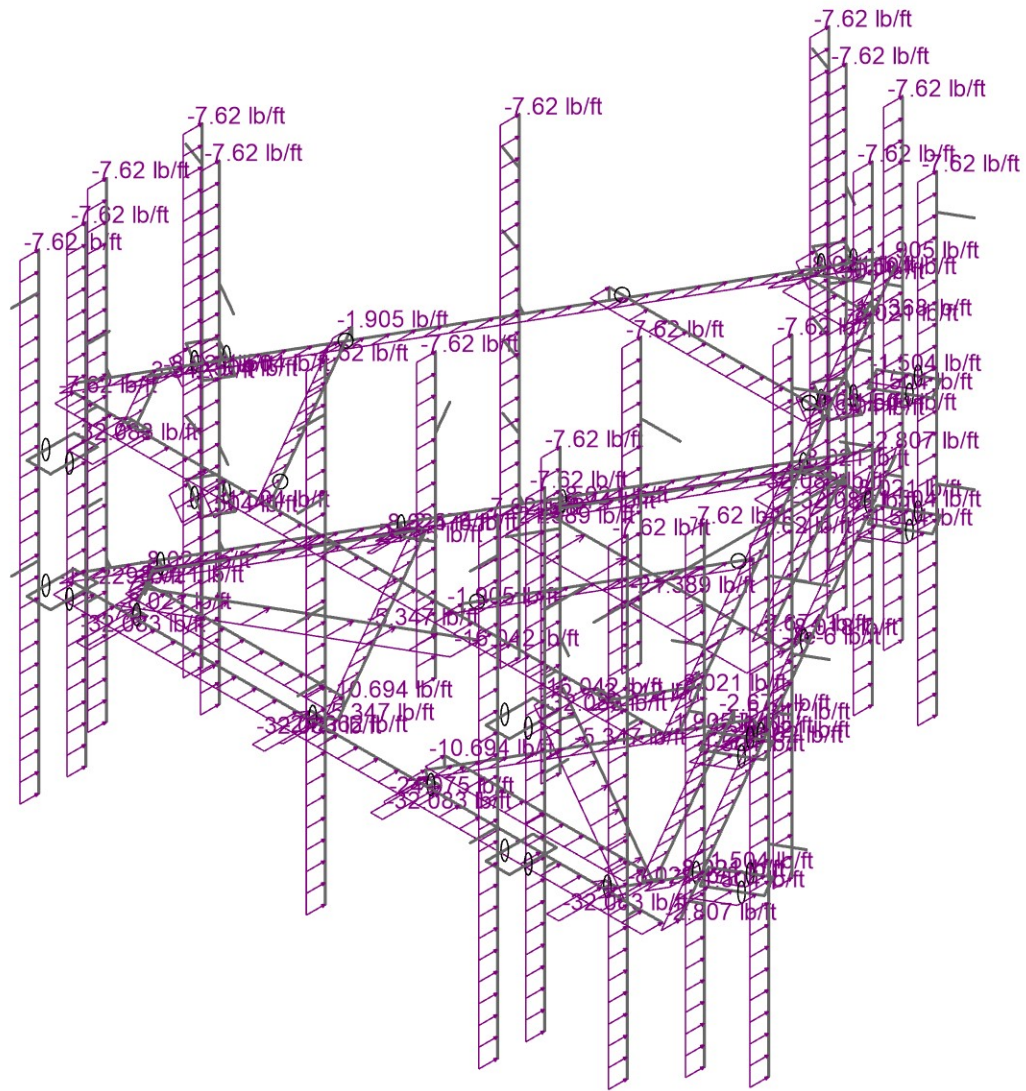
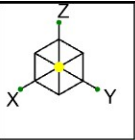


Loads: LC 1, DISPLAY (1.0D + 1.0W\_0)  
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RY
41124-13682835_C8_05-02-MA

41124-13682835_C8_05-Stoneybrook Rd CT
Joint Loads – Dead and Normal Wind

SK-5
Apr 07, 2022
41124-13682835_C8_05-02-MA.r3d



Loads: BLC 5, Structure Wind 0  
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41124-13682835\_C8\_05-02-MA

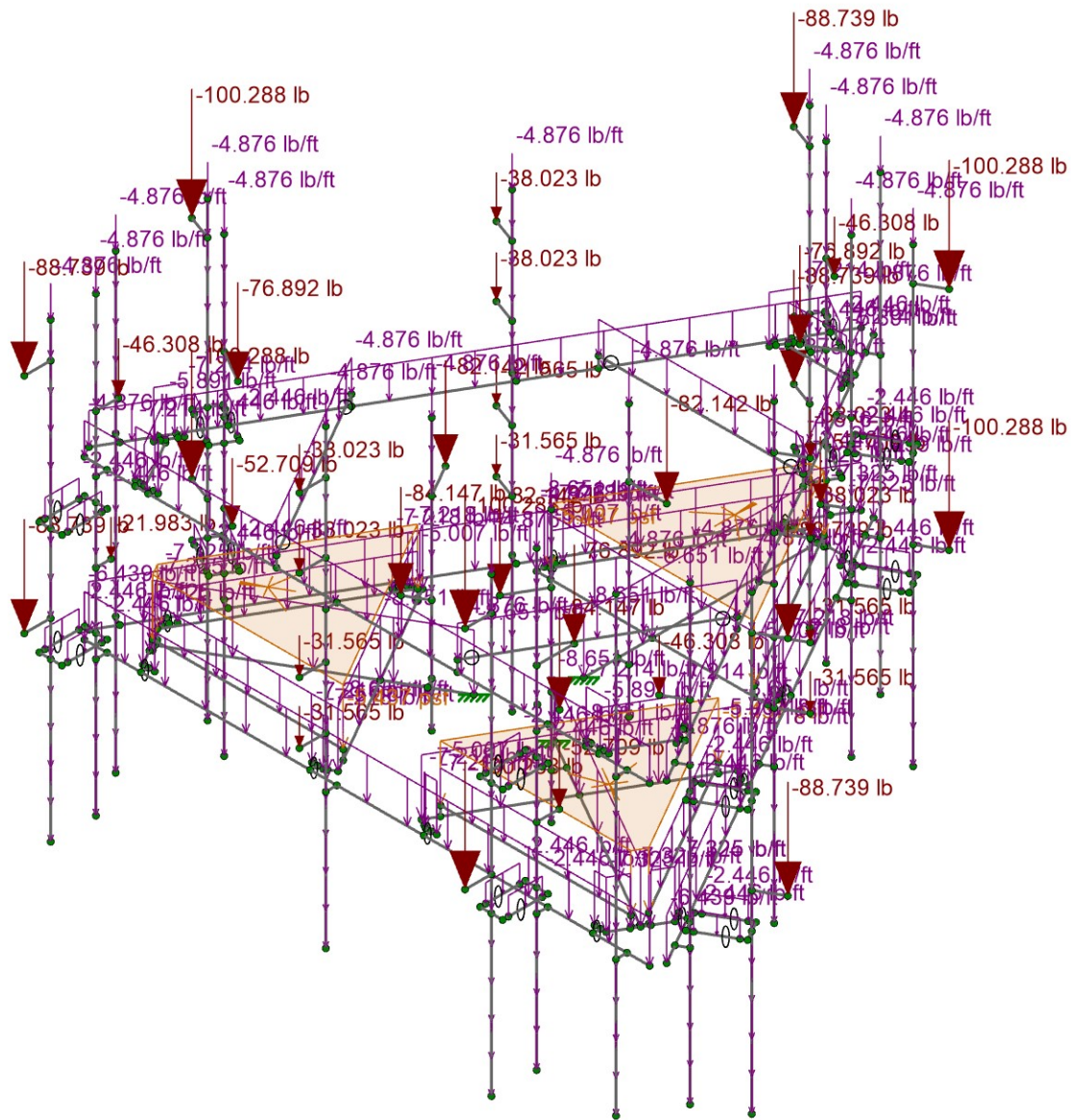
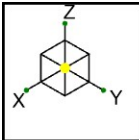
41124-13682835\_C8\_05-Stoneybrook Rd CT

Distributed Load – Normal Wind

SK-6

Apr 07, 2022

41124-13682835\_C8\_05-02-MA.r3d

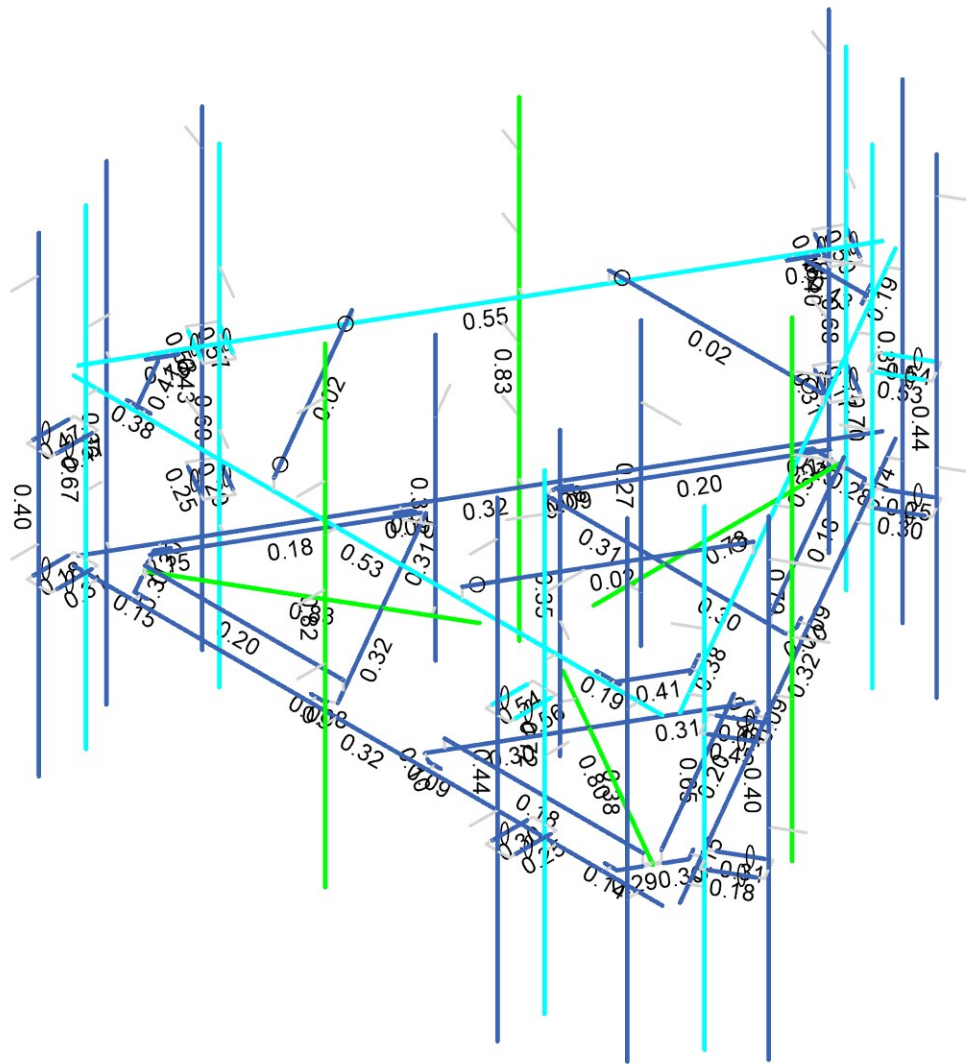
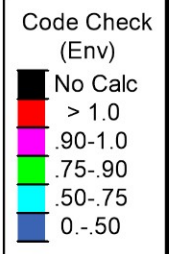
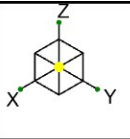


Loads: BLC 2, Ice Dead  
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RY  
41124-13682835\_C8\_05-02-MA

41124-13682835\_C8\_05-Stoneybrook Rd CT  
Ice Dead Loads

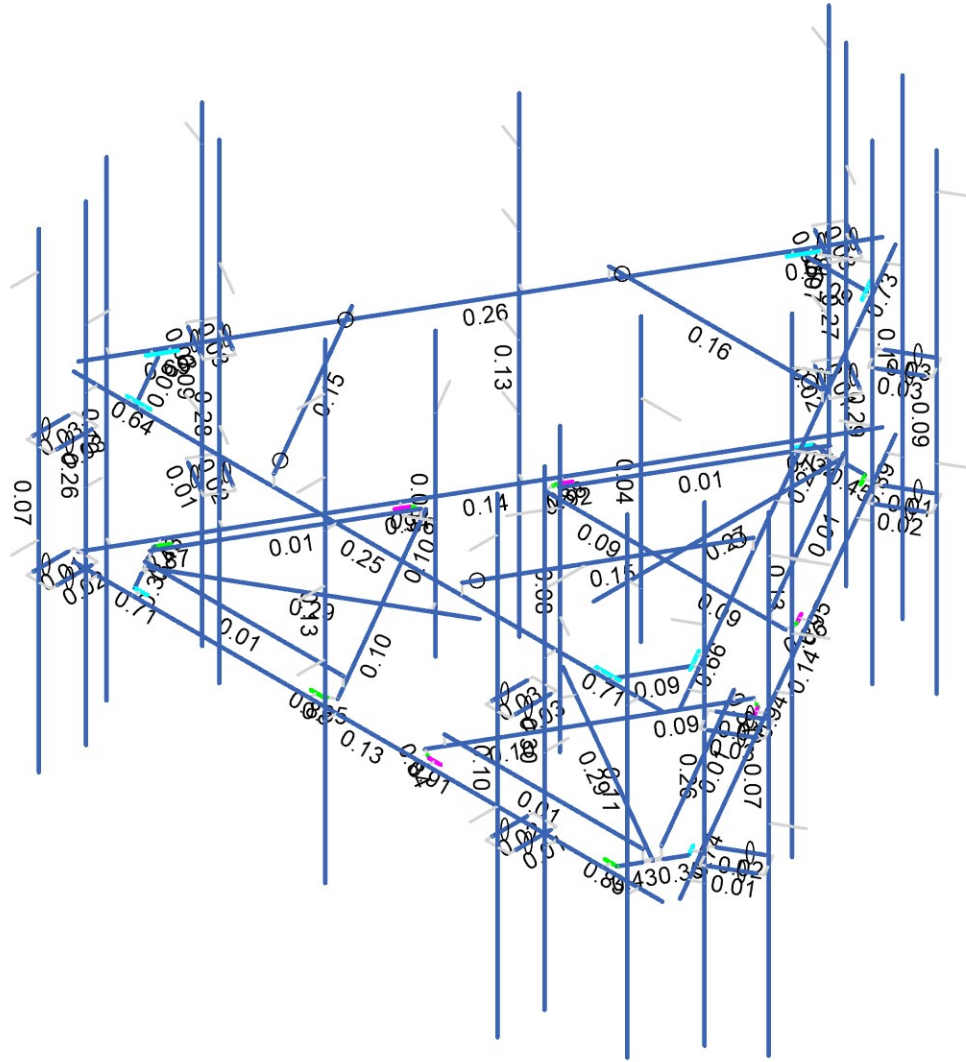
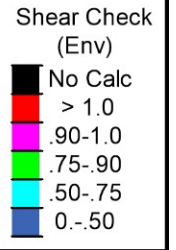
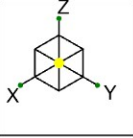
SK-7  
Apr 07, 2022  
41124-13682835\_C8\_05-02-MA.r3d



Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Telamon CLS	41124-13682835_C8_05-Stoneybrook Rd CT	SK-8
RY		Apr 08, 2022
41124-13682835_C8_05-02-MA	Envelope Member Unity Check Results – Bending	41124-13682835_C8_05-02-MA.r3d





Member Shear Checks Displayed (Enveloped)  
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41124-13682835\_C8\_05-02-MA

41124-13682835\_C8\_05-Stoneybrook Rd CT

Envelope Member Check Results – Shear

SK-9

Apr 08, 2022

41124-13682835\_C8\_05-02-MA.r3d

**Basic Load Cases**

	BLC Description	Category	Z Gravity	Nodal	Distributed	Area(Member)
1	Dead	DL	-1	45		3
2	Ice Dead	RL		45	102	3
3	BLC 1 Transient Area Loads	None			30	
4	BLC 2 Transient Area Loads	None			30	
5	Structure Wind 0°	None			92	
6	Structure Wind 30°	None			172	
7	Structure Wind 45°	None			204	
8	Structure Wind 60°	None			184	
9	Structure Wind 90°	None			86	
10	Structure Wind 120°	None			184	
11	Structure Wind 135°	None			204	
12	Structure Wind 150°	None			172	
13	Structure Wind 180°	None			92	
14	Structure Wind 210°	None			172	
15	Structure Wind 225°	None			204	
16	Structure Wind 240°	None			184	
17	Structure Wind 270°	None			86	
18	Structure Wind 300°	None			184	
19	Structure Wind 315°	None			204	
20	Structure Wind 330°	None			172	
21	Structure Wind w/ Ice 0°	None			92	
22	Structure Wind w/ Ice 30°	None			176	
23	Structure Wind w/ Ice 45°	None			204	
24	Structure Wind w/ Ice 60°	None			184	
25	Structure Wind w/ Ice 90°	None			88	
26	Structure Wind w/ Ice 120°	None			184	
27	Structure Wind w/ Ice 135°	None			204	
28	Structure Wind w/ Ice 150°	None			176	
29	Structure Wind w/ Ice 180°	None			92	
30	Structure Wind w/ Ice 210°	None			176	
31	Structure Wind w/ Ice 225°	None			204	
32	Structure Wind w/ Ice 240°	None			184	
33	Structure Wind w/ Ice 270°	None			88	
34	Structure Wind w/ Ice 300°	None			184	
35	Structure Wind w/ Ice 315°	None			204	
36	Structure Wind w/ Ice 330°	None			176	
37	Antenna Wind 0°	None		44		
38	Antenna Wind 30°	None		90		
39	Antenna Wind 45°	None		90		
40	Antenna Wind 60°	None		90		
41	Antenna Wind 90°	None		45		
42	Antenna Wind 120°	None		90		
43	Antenna Wind 135°	None		90		
44	Antenna Wind 150°	None		90		
45	Antenna Wind 180°	None		44		
46	Antenna Wind 210°	None		90		
47	Antenna Wind 225°	None		90		
48	Antenna Wind 240°	None		90		
49	Antenna Wind 270°	None		45		
50	Antenna Wind 300°	None		90		
51	Antenna Wind 315°	None		90		
52	Antenna Wind 330°	None		90		
53	Antenna Wind w/ Ice 0°	None		44		
54	Antenna Wind w/ Ice 30°	None		90		
55	Antenna Wind w/ Ice 45°	None		90		
56	Antenna Wind w/ Ice 60°	None		90		
57	Antenna Wind w/ Ice 90°	None		45		
58	Antenna Wind w/ Ice 120°	None		90		

**Basic Load Cases (Continued)**

	BLC Description	Category	Z Gravity	Nodal	Distributed	Area(Member)
59	Antenna Wind w/ Ice 135°	None		90		
60	Antenna Wind w/ Ice 150°	None		90		
61	Antenna Wind w/ Ice 180°	None		44		
62	Antenna Wind w/ Ice 210°	None		90		
63	Antenna Wind w/ Ice 225°	None		90		
64	Antenna Wind w/ Ice 240°	None		90		
65	Antenna Wind w/ Ice 270°	None		45		
66	Antenna Wind w/ Ice 300°	None		90		
67	Antenna Wind w/ Ice 315°	None		90		
68	Antenna Wind w/ Ice 330°	None		90		
69	Seismic X	ELX		45	102	
70	Seismic Y	ELY		45	102	
71	Seismic Z	ELZ		45	102	
72	Maintenance Live 500 (1)	OL1		1		
73	Maintenance Live 500 (2)	OL2		1		
74	Maintenance Live 500 (3)	OL3		1		
75	Maintenance Live 500 (4)	OL4		1		

**Load Combinations**

	Description	Solve	PDelta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	DISPLAY (1.0D + 1.0W 0°)	Yes	Y	DL	1	37	1				
2	1.4D	Yes	Y	DL	1.4						
3	1.2D + 1.0W 0°	Yes	Y	DL	1.2	5	1	37	1		
4	1.2D + 1.0W 30°	Yes	Y	DL	1.2	6	1	38	1		
5	1.2D + 1.0W 45°	Yes	Y	DL	1.2	7	1	39	1		
6	1.2D + 1.0W 60°	Yes	Y	DL	1.2	8	1	40	1		
7	1.2D + 1.0W 90°	Yes	Y	DL	1.2	9	1	41	1		
8	1.2D + 1.0W 120°	Yes	Y	DL	1.2	10	1	42	1		
9	1.2D + 1.0W 135°	Yes	Y	DL	1.2	11	1	43	1		
10	1.2D + 1.0W 150°	Yes	Y	DL	1.2	12	1	44	1		
11	1.2D + 1.0W 180°	Yes	Y	DL	1.2	13	-1	45	-1		
12	1.2D + 1.0W 210°	Yes	Y	DL	1.2	14	-1	46	-1		
13	1.2D + 1.0W 225°	Yes	Y	DL	1.2	15	-1	47	-1		
14	1.2D + 1.0W 240°	Yes	Y	DL	1.2	16	-1	48	-1		
15	1.2D + 1.0W 270°	Yes	Y	DL	1.2	17	-1	49	-1		
16	1.2D + 1.0W 300°	Yes	Y	DL	1.2	18	-1	50	-1		
17	1.2D + 1.0W 315°	Yes	Y	DL	1.2	19	-1	51	-1		
18	1.2D + 1.0W 330°	Yes	Y	DL	1.2	20	-1	52	-1		
19	1.2D + 1.0Di + 1.0Wi 0°	Yes	Y	DL	1.2	21	1	53	1	RL	1
20	1.2D + 1.0Di + 1.0Wi 30°	Yes	Y	DL	1.2	22	1	54	1	RL	1
21	1.2D + 1.0Di + 1.0Wi 45°	Yes	Y	DL	1.2	23	1	55	1	RL	1
22	1.2D + 1.0Di + 1.0Wi 60°	Yes	Y	DL	1.2	24	1	56	1	RL	1
23	1.2D + 1.0Di + 1.0Wi 90°	Yes	Y	DL	1.2	25	1	57	1	RL	1
24	1.2D + 1.0Di + 1.0Wi 120°	Yes	Y	DL	1.2	26	1	58	1	RL	1
25	1.2D + 1.0Di + 1.0Wi 135°	Yes	Y	DL	1.2	27	1	59	1	RL	1
26	1.2D + 1.0Di + 1.0Wi 150°	Yes	Y	DL	1.2	28	1	60	1	RL	1
27	1.2D + 1.0Di + 1.0Wi 180°	Yes	Y	DL	1.2	29	-1	61	-1	RL	1
28	1.2D + 1.0Di + 1.0Wi 210°	Yes	Y	DL	1.2	30	-1	62	-1	RL	1
29	1.2D + 1.0Di + 1.0Wi 225°	Yes	Y	DL	1.2	31	-1	63	-1	RL	1
30	1.2D + 1.0Di + 1.0Wi 240°	Yes	Y	DL	1.2	32	-1	64	-1	RL	1
31	1.2D + 1.0Di + 1.0Wi 270°	Yes	Y	DL	1.2	33	-1	65	-1	RL	1
32	1.2D + 1.0Di + 1.0Wi 300°	Yes	Y	DL	1.2	34	-1	66	-1	RL	1
33	1.2D + 1.0Di + 1.0Wi 315°	Yes	Y	DL	1.2	35	-1	67	-1	RL	1
34	1.2D + 1.0Di + 1.0Wi 330°	Yes	Y	DL	1.2	36	-1	68	-1	RL	1
35	1.2D + 1.0Ev + 1.0Eh 0°	Yes	Y	DL	1.244	ELX	-1	ELY			
36	1.2D + 1.0Ev + 1.0Eh 30°	Yes	Y	DL	1.244	ELX	-0.866	ELY	0.5		
37	1.2D + 1.0Ev + 1.0Eh 45°	Yes	Y	DL	1.244	ELX	-0.707	ELY	0.707		
38	1.2D + 1.0Ev + 1.0Eh 60°	Yes	Y	DL	1.244	ELX	-0.5	ELY	0.866		





**Hot Rolled Steel Section Sets (Continued)**

	Label	Shape	Type	Design List	Material	Design Rule	Area [in <sup>2</sup> ]	I <sub>yy</sub> [in <sup>4</sup> ]	I <sub>zz</sub> [in <sup>4</sup> ]	J [in <sup>4</sup> ]
10	MOD SR Bracing	PIPE 2.0	Beam	Wide Flange	A36 Gr.36	Typical	1.02	0.627	0.627	1.25
11	MOD Threaded Rods	5/8 SR	None	None	SAE J429 Grade 2	Typical	0.307	0.007	0.007	0.015

**Hot Rolled Steel Design Parameters**

	Label	Shape	Length [in]	Lb y-y [in]	Lb z-z [in]	Function
1	A1	Offset Tube	62.5			Lateral
2	M135	Offset End Plate	3.122			Lateral
3	M136	Offset End Plate	4.688			Lateral
4	M137	Offset End Plate	3.122			Lateral
5	M138	Offset Side Plate	0.875			Lateral
6	M139	Offset Side Plate	0.875			Lateral
7	M140	Offset Tube	30.688			Lateral
8	M142	Offset Tube	30.687			Lateral
9	M145	Offset End Plate	4.688			Lateral
10	M155	Offset Side Plate	3			Lateral
11	M156	Offset Side Plate	3			Lateral
12	M160	Grating Angle	50.542			Lateral
13	M162	Grating Angle	50.542			Lateral
14	M170	MOUNT_PIPE 2.0	72			Lateral
15	M85	Platform Horizontal Pipe	150	44.894	61	Lateral
16	A2	Offset Tube	62.5			Lateral
17	M55	Offset Side Plate	0.875			Lateral
18	M56	Offset End Plate	3.122			Lateral
19	M57	Offset End Plate	3.122			Lateral
20	M58	Offset End Plate	4.688			Lateral
21	M59	Offset Side Plate	0.875			Lateral
22	M60	Offset Side Plate	3			Lateral
23	M61	Offset Tube	30.688			Lateral
24	M62	Offset Tube	30.687			Lateral
25	M63	Offset End Plate	4.688			Lateral
26	M69	Offset Side Plate	3			Lateral
27	M73	Grating Angle	50.542			Lateral
28	M75	Grating Angle	50.542			Lateral
29	M89	MOUNT_PIPE 2.0	72			Lateral
30	M92	Platform Horizontal Pipe	150	44.894	61	Lateral
31	A3	Offset Tube	62.5			Lateral
32	M96	Offset Side Plate	0.875			Lateral
33	M97	Offset End Plate	3.122			Lateral
34	M98	Offset End Plate	3.122			Lateral
35	M99	Offset End Plate	4.688			Lateral
36	M100	Offset Side Plate	0.875			Lateral
37	M101	Offset Side Plate	3			Lateral
38	M102	Offset Tube	30.688			Lateral
39	M103	Offset Tube	30.687			Lateral
40	M104	Offset End Plate	4.688			Lateral
41	M110	Offset Side Plate	3			Lateral
42	M114	Grating Angle	50.542			Lateral
43	M116	Grating Angle	50.542			Lateral
44	M130	MOUNT_PIPE 2.0	72			Lateral
45	M133	Platform Horizontal Pipe	150	44.894	61	Lateral
46	A MP1 S	MOUNT_PIPE 2.0	120			Lateral
47	A MP2 S	MOUNT_PIPE 2.0	120			Lateral
48	A MP3 S	MOUNT_PIPE 2.0	120			Lateral
49	A MP4 S	MOUNT_PIPE 2.0	120			Lateral
50	B MP1 S	MOUNT_PIPE 2.0	120			Lateral
51	B MP2 S	MOUNT_PIPE 2.0	120			Lateral
52	B MP3 S	MOUNT_PIPE 2.0	120			Lateral
53	B MP4 S	MOUNT_PIPE 2.0	120			Lateral

**Hot Rolled Steel Design Parameters (Continued)**

	Label	Shape	Length [in]	Lb y-y [in]	Lb z-z [in]	Function
54	G MP1 S	MOUNT_PIPE_2.0	120			Lateral
55	G MP2 S	MOUNT_PIPE_2.0	120			Lateral
56	G MP3 S	MOUNT_PIPE_2.0	120			Lateral
57	G MP4 S	MOUNT_PIPE_2.0	120			Lateral
58	HR1	MOD Support Rail	150	48	55.95	Lateral
59	HR2	MOD SR Conn Plate	6			Lateral
60	HR3	MOD SR Conn Plate	6			Lateral
61	HR10	MOD Support Rail	150	48	55.95	Lateral
62	HR11	MOD SR Conn Plate	6			Lateral
63	HR12	MOD SR Conn Plate	6			Lateral
64	HR19	MOD Support Rail	150	48	55.95	Lateral
65	HR20	MOD SR Conn Plate	6			Lateral
66	HR21	MOD SR Conn Plate	6			Lateral
67	HR28	MOD SR Conn Angle	15.408			Lateral
68	HR29	MOD SR Conn Angle	15.408			Lateral
69	HR30	MOD SR Conn Angle	15.408			Lateral
70	HR37	MOD SR Bracing	54.296			Lateral
71	HR38	MOD SR Bracing	54.296			Lateral
72	HR39	MOD SR Bracing	54.296			Lateral
73	M211	MOD Threaded Rods	9			Lateral
74	M212	MOD Threaded Rods	9			Lateral
75	M213	MOD Threaded Rods	9			Lateral
76	M214	MOD Threaded Rods	9			Lateral
77	M224	MOD Threaded Rods	9			Lateral
78	M228	MOD Threaded Rods	9			Lateral
79	M229	MOD Threaded Rods	9			Lateral
80	M230	MOD Threaded Rods	9			Lateral
81	M231	MOUNT_PIPE_2.0	120			Lateral
82	M232	MOUNT_PIPE_2.0	120			Lateral
83	M235	MOUNT_PIPE_2.0	120			Lateral
84	M238	MOD Threaded Rods	9			Lateral
85	M242	MOUNT_PIPE_2.0	120			Lateral
86	M243	MOD Threaded Rods	9			Lateral
87	M250	MOD Threaded Rods	9			Lateral
88	M255	MOD Threaded Rods	9			Lateral
89	M256	MOD Threaded Rods	9			Lateral
90	M257	MOD Threaded Rods	9			Lateral
91	M258	MOD Threaded Rods	9			Lateral
92	M266	MOD Threaded Rods	9			Lateral
93	M269	MOUNT_PIPE_2.0	120			Lateral
94	M272	MOD Threaded Rods	9			Lateral
95	M276	MOUNT_PIPE_2.0	120			Lateral
96	M277	MOD Threaded Rods	9			Lateral
97	M284	MOD Threaded Rods	9			Lateral
98	M289	MOD Threaded Rods	9			Lateral
99	M290	MOD Threaded Rods	9			Lateral
100	M291	MOD Threaded Rods	9			Lateral
101	M292	MOD Threaded Rods	9			Lateral
102	M300	MOD Threaded Rods	9			Lateral

**Member Advanced Data**

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
1	A1			Yes	Default	None
2	M135			Yes		None
3	M136			Yes		None
4	M137			Yes		None
5	M138			Yes		None
6	M139			Yes		None

**Member Advanced Data (Continued)**

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
7	M140			Yes		None
8	M141			Yes	** NA **	None
9	M142			Yes		None
10	M145			Yes		None
11	M146			Yes	** NA **	None
12	M147			Yes	** NA **	None
13	M148			Yes	** NA **	None
14	M153		OOOXOO	Yes	** NA **	None
15	M154		OOOXOO	Yes	** NA **	None
16	M155			Yes		None
17	M156			Yes		None
18	M157		OOOXOO	Yes	** NA **	None
19	M158		OOOXOO	Yes	** NA **	None
20	M159			Yes	** NA **	None
21	M160			Yes		None
22	M161			Yes	** NA **	None
23	M162			Yes		None
24	M163			Yes	** NA **	None
25	M164			Yes	** NA **	None
26	M169			Yes	** NA **	None
27	M170			Yes	** NA **	None
28	M85			Yes	Default	None
29	M171			Yes	** NA **	None
30	M53			Yes	** NA **	None
31	A2			Yes	Default	None
32	M55			Yes		None
33	M56			Yes		None
34	M57			Yes		None
35	M58			Yes		None
36	M59			Yes		None
37	M60			Yes		None
38	M61			Yes		None
39	M62			Yes		None
40	M63			Yes		None
41	M64			Yes	** NA **	None
42	M65			Yes	** NA **	None
43	M66			Yes	** NA **	None
44	M67		OOOXOO	Yes	** NA **	None
45	M68		OOOXOO	Yes	** NA **	None
46	M69			Yes		None
47	M70		OOOXOO	Yes	** NA **	None
48	M71		OOOXOO	Yes	** NA **	None
49	M72			Yes	** NA **	None
50	M73			Yes		None
51	M74			Yes	** NA **	None
52	M75			Yes		None
53	M76			Yes	** NA **	None
54	M77			Yes	** NA **	None
55	M78			Yes	** NA **	None
56	M89			Yes	** NA **	None
57	M90			Yes	** NA **	None
58	M91			Yes	** NA **	None
59	M92			Yes	Default	None
60	M94			Yes	** NA **	None
61	A3			Yes	Default	None
62	M96			Yes		None
63	M97			Yes		None
64	M98			Yes		None



**Member Advanced Data (Continued)**

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
65	M99			Yes		None
66	M100			Yes		None
67	M101			Yes		None
68	M102			Yes		None
69	M103			Yes		None
70	M104			Yes		None
71	M105			Yes	** NA **	None
72	M106			Yes	** NA **	None
73	M107			Yes	** NA **	None
74	M108		OOOXOO	Yes	** NA **	None
75	M109		OOOXOO	Yes	** NA **	None
76	M110			Yes		None
77	M111		OOOXOO	Yes	** NA **	None
78	M112		OOOXOO	Yes	** NA **	None
79	M113			Yes	** NA **	None
80	M114			Yes		None
81	M115			Yes	** NA **	None
82	M116			Yes		None
83	M117			Yes	** NA **	None
84	M118			Yes	** NA **	None
85	M119			Yes	** NA **	None
86	M130			Yes	** NA **	None
87	M131			Yes	** NA **	None
88	M132			Yes	** NA **	None
89	M133			Yes	Default	None
90	RI2			Yes	** NA **	None
91	RI1			Yes	** NA **	None
92	A MP1 S			Yes	** NA **	None
93	RI12			Yes	** NA **	None
94	RI11			Yes	** NA **	None
95	A MP2 S			Yes	** NA **	None
96	RI13			Yes	** NA **	None
97	RI14			Yes	** NA **	None
98	RI15			Yes	** NA **	None
99	RI16			Yes	** NA **	None
100	RI22			Yes	** NA **	None
101	RI21			Yes	** NA **	None
102	A MP3 S			Yes	** NA **	None
103	RI23			Yes	** NA **	None
104	RI24			Yes	** NA **	None
105	RI32			Yes	** NA **	None
106	RI31			Yes	** NA **	None
107	A MP4 S			Yes	** NA **	None
108	RI33			Yes	** NA **	None
109	RI34			Yes	** NA **	None
110	RI35			Yes	** NA **	None
111	RI38			Yes	** NA **	None
112	RI72			Yes	** NA **	None
113	RI71			Yes	** NA **	None
114	B MP1 S			Yes	** NA **	None
115	RI82			Yes	** NA **	None
116	RI81			Yes	** NA **	None
117	B MP2 S			Yes	** NA **	None
118	RI83			Yes	** NA **	None
119	RI84			Yes	** NA **	None
120	RI85			Yes	** NA **	None
121	RI86			Yes	** NA **	None
122	RI92			Yes	** NA **	None

**Member Advanced Data (Continued)**

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
123	RI91			Yes	** NA **	None
124	B_MP3_S			Yes	** NA **	None
125	RI93			Yes	** NA **	None
126	RI94			Yes	** NA **	None
127	RI102			Yes	** NA **	None
128	RI101			Yes	** NA **	None
129	B_MP4_S			Yes	** NA **	None
130	RI103			Yes	** NA **	None
131	RI104			Yes	** NA **	None
132	RI105			Yes	** NA **	None
133	RI142			Yes	** NA **	None
134	RI141			Yes	** NA **	None
135	G_MP1_S			Yes	** NA **	None
136	RI152			Yes	** NA **	None
137	RI151			Yes	** NA **	None
138	G_MP2_S			Yes	** NA **	None
139	RI153			Yes	** NA **	None
140	RI154			Yes	** NA **	None
141	RI155			Yes	** NA **	None
142	RI156			Yes	** NA **	None
143	RI162			Yes	** NA **	None
144	RI161			Yes	** NA **	None
145	G_MP3_S			Yes	** NA **	None
146	RI163			Yes	** NA **	None
147	RI164			Yes	** NA **	None
148	RI172			Yes	** NA **	None
149	RI171			Yes	** NA **	None
150	G_MP4_S			Yes	** NA **	None
151	RI173			Yes	** NA **	None
152	RI174			Yes	** NA **	None
153	RI175			Yes	** NA **	None
154	M184			Yes	** NA **	None
155	M185			Yes	** NA **	None
156	M186			Yes	** NA **	None
157	M187			Yes	** NA **	None
158	M188			Yes	** NA **	None
159	M189			Yes	** NA **	None
160	HR1			Yes	Default	None
161	HR2			Yes		None
162	HR3			Yes		None
163	HR4			Yes	** NA **	None
164	HR5			Yes	** NA **	None
165	HR6			Yes	** NA **	None
166	HR7			Yes	** NA **	None
167	HR8			Yes	** NA **	None
168	HR9			Yes	** NA **	None
169	HR10			Yes	Default	None
170	HR11			Yes		None
171	HR12			Yes		None
172	HR13			Yes	** NA **	None
173	HR14			Yes	** NA **	None
174	HR15			Yes	** NA **	None
175	HR16			Yes	** NA **	None
176	HR17			Yes	** NA **	None
177	HR18			Yes	** NA **	None
178	HR19			Yes	Default	None
179	HR20			Yes		None
180	HR21			Yes		None

**Member Advanced Data (Continued)**

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
181	HR22			Yes	** NA **	None
182	HR23			Yes	** NA **	None
183	HR24			Yes	** NA **	None
184	HR25			Yes	** NA **	None
185	HR26			Yes	** NA **	None
186	HR27			Yes	** NA **	None
187	HR28			Yes	** NA **	None
188	HR29			Yes		None
189	HR30			Yes		None
190	HR31			Yes	** NA **	None
191	HR32			Yes	** NA **	None
192	HR33			Yes	** NA **	None
193	HR34			Yes	** NA **	None
194	HR35			Yes	** NA **	None
195	HR36			Yes	** NA **	None
196	HR37	BenPIN	BenPIN	Yes		None
197	HR38	BenPIN	BenPIN	Yes		None
198	HR39	BenPIN	BenPIN	Yes		None
199	M199			Yes	** NA **	None
200	M200			Yes	** NA **	None
201	M201			Yes	** NA **	None
202	M202			Yes	** NA **	None
203	M203			Yes	** NA **	None
204	M204			Yes	** NA **	None
205	M205			Yes	** NA **	None
206	M206			Yes	** NA **	None
207	M207			Yes	** NA **	None
208	M208			Yes	** NA **	None
209	M209			Yes	** NA **	None
210	M210			Yes	** NA **	None
211	M211		OOOXOO	Yes	** NA **	None
212	M212		OOOXOO	Yes	** NA **	None
213	M213		OOOXOO	Yes	** NA **	None
214	M214		OOOXOO	Yes	** NA **	None
215	M215			Yes	** NA **	None
216	M216			Yes	** NA **	None
217	M217			Yes	** NA **	None
218	M218			Yes	** NA **	None
219	M219			Yes	** NA **	None
220	M220			Yes	** NA **	None
221	M221			Yes	** NA **	None
222	M222			Yes	** NA **	None
223	M223			Yes	** NA **	None
224	M224		OOOXOO	Yes	** NA **	None
225	M225			Yes	** NA **	None
226	M226			Yes	** NA **	None
227	M227			Yes	** NA **	None
228	M228		OOOXOO	Yes	** NA **	None
229	M229		OOOXOO	Yes	** NA **	None
230	M230		OOOXOO	Yes	** NA **	None
231	M231			Yes	** NA **	None
232	M232			Yes	** NA **	None
233	M233			Yes	** NA **	None
234	M234			Yes	** NA **	None
235	M235			Yes	** NA **	None
236	M236			Yes	** NA **	None
237	M237			Yes	** NA **	None
238	M238		OOOXOO	Yes	** NA **	None

**Member Advanced Data (Continued)**

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
239	M239			Yes	** NA **	None
240	M240			Yes	** NA **	None
241	M241			Yes	** NA **	None
242	M242			Yes	** NA **	None
243	M243		OOOXOO	Yes	** NA **	None
244	M244			Yes	** NA **	None
245	M245			Yes	** NA **	None
246	M246			Yes	** NA **	None
247	M247			Yes	** NA **	None
248	M248			Yes	** NA **	None
249	M249			Yes	** NA **	None
250	M250		OOOXOO	Yes	** NA **	None
251	M251			Yes	** NA **	None
252	M252			Yes	** NA **	None
253	M253			Yes	** NA **	None
254	M254			Yes	** NA **	None
255	M255		OOOXOO	Yes	** NA **	None
256	M256		OOOXOO	Yes	** NA **	None
257	M257		OOOXOO	Yes	** NA **	None
258	M258		OOOXOO	Yes	** NA **	None
259	M259			Yes	** NA **	None
260	M260			Yes	** NA **	None
261	M261			Yes	** NA **	None
262	M262			Yes	** NA **	None
263	M263			Yes	** NA **	None
264	M264			Yes	** NA **	None
265	M265			Yes	** NA **	None
266	M266		OOOXOO	Yes	** NA **	None
267	M267			Yes	** NA **	None
268	M268			Yes	** NA **	None
269	M269			Yes	** NA **	None
270	M270			Yes	** NA **	None
271	M271			Yes	** NA **	None
272	M272		OOOXOO	Yes	** NA **	None
273	M273			Yes	** NA **	None
274	M274			Yes	** NA **	None
275	M275			Yes	** NA **	None
276	M276			Yes	** NA **	None
277	M277		OOOXOO	Yes	** NA **	None
278	M278			Yes	** NA **	None
279	M279			Yes	** NA **	None
280	M280			Yes	** NA **	None
281	M281			Yes	** NA **	None
282	M282			Yes	** NA **	None
283	M283			Yes	** NA **	None
284	M284		OOOXOO	Yes	** NA **	None
285	M285			Yes	** NA **	None
286	M286			Yes	** NA **	None
287	M287			Yes	** NA **	None
288	M288			Yes	** NA **	None
289	M289		OOOXOO	Yes	** NA **	None
290	M290		OOOXOO	Yes	** NA **	None
291	M291		OOOXOO	Yes	** NA **	None
292	M292		OOOXOO	Yes	** NA **	None
293	M293			Yes	** NA **	None
294	M294			Yes	** NA **	None
295	M295			Yes	** NA **	None
296	M296			Yes	** NA **	None





**Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)**

Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-ft]	phi*Mn z-z [lb-ft]	Cb	Eqn	
92	M257	5/8 SR	0.2476	9	20	0.0137	0	20	11936.0821	15738.6348	163.9411	163.9411	2.2269	H1-1b	
93	M228	5/8 SR	0.2462	9	26	0.0136	0	26	11936.0821	15738.6348	163.9411	163.9411	2.2268	H1-1b	
94	M160	L2x2x3	0.2033	50.5418	6	0.0123	50.5418	y	7	9618.8883	23392.8	557.7166	1137.5872	1.5	H2-1
95	M114	L2x2x3	0.2007	50.5418	11	0.0122	50.5418	y	12	9618.8883	23392.8	557.7166	1137.5872	1.5	H2-1
96	M73	L2x2x3	0.2008	50.5418	16	0.0119	50.5418	y	17	9618.8883	23392.8	557.7166	1137.5872	1.5	H2-1
97	M75	L2x2x3	0.1796	50.5416	11	0.0115	50.5416	z	25	9618.9559	23392.8	557.7166	1137.5881	1.5	H2-1
98	M162	L2x2x3	0.1768	50.5416	16	0.0113	50.5416	z	30	9618.9559	23392.8	557.7166	1137.5881	1.5	H2-1
99	M116	L2x2x3	0.1791	50.5416	5	0.0113	50.5416	z	20	9618.9559	23392.8	557.7166	1137.5881	1.5	H2-1
100	M250	5/8 SR	0.181	9	23	0.0103	0	23	11936.0821	15738.6348	163.9411	163.9411	2.2261	H1-1b	
101	M214	5/8 SR	0.1784	9	28	0.0101	0	28	11936.0821	15738.6348	163.9411	163.9411	2.2244	H1-1b	
102	M284	5/8 SR	0.174	9	34	0.0099	0	34	11936.0821	15738.6348	163.9411	163.9411	2.2253	H1-1b	

# TOWER-MOUNT CONNECTION ANALYSIS

v.1.0.0

SITE INFORMATION	
Site ID	283420
Site Name	Stoneybrook Rd CT
Project ID	41124-13682835_C8_05-02-MA

ANALYSIS PARAMETERS	
TIA Revision	H

APPLIED FORCES FROM R3D		
Member Label		A2 LC14
Member End Label		I
Force-X	Fx, lbs	-2766.9
Force-Y	Fy, lbs	3677.7
Force-Z	Fz, lbs	-61.5
Moment X-X	Mx, lbs-ft	-61.3
Moment Y-Y	My, lbs-ft	-13.6
Moment Z-Z	Mz, lbs-ft	10366.9

STANDOFF MEMBER PROPERTIES	
Standoff Member Type	Square/Rect. HSS
Standoff Member Shape	HSS4X4X1/4
Standoff Member Grade	A36
Member to Plate Weld Size, in	3/16

BOLT & PLATE PROPERTIES	
Bolt Quantity	4
Bolt Edge Distance (e), in	1.00
Nominal Bolt Diameter ( $\varnothing$ Db), in	0.625
Bolt Grade	A325
Plate Height (H), in	8.00
Plate Width (W), in	8.00
Plate Thickness (T), in	0.75
Plate Grade	A36

BOLT ANALYSIS	
Shear Demand (Vu), k	0.93
Shear Capacity ( $\Phi$ Rnv), k	13.81
Tension Demand (Tu), k	15.35
Tension Capacity ( $\Phi$ Rnt), k	20.34
Shear Utilization	6.7%
Tension Utilization	75.5%
Interaction Utilization	57.4%

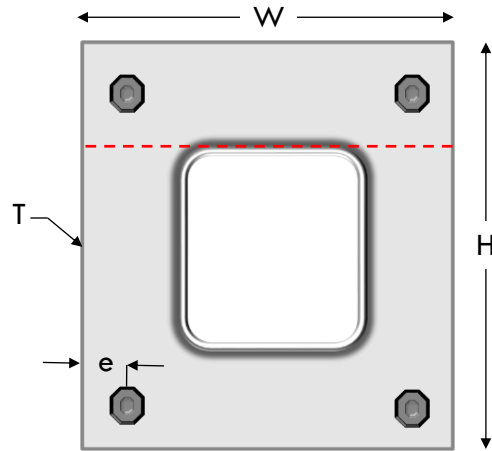
PASS

PLATE ANALYSIS	
Moment Demand (Mu), k-in	21.71
Flexural Capacity ( $\Phi$ Mn), k-in	25.77
Plate Utilization	84.2%

PASS



319 Chapanoke Road, Suite 118  
 Raleigh, NC 27603  
 Office: (405) 348-5460  
 Fax: (405) 341-6334



MATERIAL PROPERTIES	
Standoff Member - Yield Strength (Fy), ksi	36
Standoff Member - Ultimate Strength (Fu), ksi	58
Bolt - Yield Strength (Fy), ksi	92
Bolt - Tensile Strength (Fu), ksi	120
Plate - Yield Strength (Fy), ksi	36
Plate - Ultimate Strength (Fu), ksi	58





STATE OF CONNECTICUT  
*CONNECTICUT SITING COUNCIL*

Ten Franklin Square, New Britain, CT 06051  
Phone: (860) 827-2935 Fax: (860) 827-2950  
E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)  
Web Site: [www.ct.gov/csc](http://www.ct.gov/csc)

**VIA ELECTRONIC MAIL**

October 26, 2020

Allison Hebel  
Site Acquisition Consultant  
Centerline Communications, LLC  
750 West Center Street, Ste 301  
West Bridgewater, MA 02379

RE: **EM-CING-138-200909** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut.

Dear Ms. Hebel:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. Install Yellow Caution 2B sign(s), if none already exist, consistent with the Radio Frequency Safety Survey Report Prediction prepared by Centerline Communications, LLC dated July 13, 2020;
2. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
3. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
4. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
5. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
6. The validity of this action shall expire one year from the date of this letter; and
7. 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 proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated September 8, 2020. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation

power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Sincerely,

*s/ Melanie A. Bachman*

Melanie A. Bachman  
Executive Director

MAB/IN/emr

c: The Honorable Laura R. Hoydick, Mayor, Town of Stratford ([mayor@townofstratford.com](mailto:mayor@townofstratford.com))



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

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[www.ct.gov/csc](http://www.ct.gov/csc)

July 19, 2019

Kristen Motel, Esq.  
Lucia Chiochio, Esq.  
Cuddy & Feder LLP  
445 Hamilton Avenue, 14<sup>th</sup> floor  
White Plains, NY 10601

RE: **DOCKET NO. 385** - American Towers LLC Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut.

Dear Attorney Motel and Attorney Chiochio:

During a public meeting held on July 18, 2019, the Connecticut Siting Council (Council) by its Decision and Order dated July 18, 2019, modified the Decision and Order in Docket 385 rendered on February 25, 2010 for the construction, maintenance and operation of a telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut and reissued the Certificate of Environmental Compatibility and Public Need (Certificate), thereby eliminating the requirement that panel antennas on this telecommunications facility shall be installed in an exterior, flush mount configuration.

Therefore, the Council hereby approves the installation of three new standoff T-Arm antenna mounts with braces at the 117-foot level of the the tower consistent with **EM-CING-138-190403** - New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut, with the following conditions:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. 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.

Enclosed are the Council's Staff report, Modified Decision and Order, and reissued Certificate.

Sincerely,

Melanie A. Bachman  
Executive Director

MAB/RDM/laf

Enclosures



c: Gregory Mercier, Supervising Attorney, US Tower Division, American Tower Corporation  
Patricia Nowak, Site Acquisition Consultant, Centerline Communications, LLC  
Parties & Intervenors  
State Documents Librarian  
The Honorable Laura R. Hoydick, Mayor, Town of Stratford  
John Rusatsky, Zoning Enforcement Officer, Town of Stratford  
Jay Habansky, Planning & Zoning Administrator, Town of Stratford



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Web Site: [www.ct.gov/csc](http://www.ct.gov/csc)

### Docket No. 385

23 Stonybrook Road, Stratford

### AT&T Request to Reopen and Modify the Decision and Order

#### Staff Report

July 18, 2019

#### Introduction

On February 25, 2010, the Connecticut Siting Council (Council) issued a Certificate of Environmental Compatibility and Public Need (Certificate) to T-Mobile Northeast, LLC for the construction, maintenance and operation of a telecommunications facility at 23 Stonybrook Road, Stratford, Connecticut.

The Council's Docket 385 Decision and Order (D&O), Condition 1, specified that "panel antennas shall be installed in an exterior, flush mount configuration and such panel antennas shall not exceed a height of 100 feet above ground level".

The Council approved a transfer of Certificate to Florida Tower Partners on January 6, 2011. The Council approved a second transfer of Certificate from Florida Tower Partners to American Tower Corporation (ATC) on March 5, 2016.

On June 10, 2019, AT&T submitted a Request to Reopen and Modify D&O Condition No. 1 to allow for other types of antenna mounts to be used at this facility including, but not limited to, T-Arm mount systems. AT&T's request has been authorized by ATC.

#### Background Site Information

##### *Development and Management Plan*

On October 21, 2010, the Council approved a Development and Management (D&M) Plan for this facility, except for the utility route, which was approved by the Council on March 17, 2011. The D&M Plan included a 100-foot monopole with a white finish. T-Mobile installed three flush-mounted panel antennas at the 98-foot level of the tower and reserved space at the 88-foot level for future antenna/network expansion.

Subsequent to the D&M approval, in 2013, the Council approved a tower share request from Verizon to install flush mount antennas at the 77-foot level of the tower.

##### *Petition No. 1100 – Tower Extension*

On July 10, 2014, the Council approved a Petition submitted by AT&T for a 20-foot extension of the monopole to support three flush mounted antennas and associated remote radio units at both the 117-foot and 107-foot levels of the tower. The extension was constructed and AT&T installed antennas at the 117-foot level of the tower.

### *AT&T Exempt Modification Request*

On April 1, 2019, AT&T submitted a Notice of Exempt Modification to install new T-Arm mounts at the 117-foot level of the 120-foot tower to support six antennas and associated remote radio units (RRUs). On April 5, 2019, the Council submitted correspondence to AT&T's consultant stating the filing is incomplete as it does not conform to Condition 1 of the Council's D&O for this facility that limited panel antennas to a flush mount configuration.

Specifically, AT&T proposed to replace its existing flush mount antenna configuration at the 117-foot level of the tower with a new T-Arm antenna configuration using three new 24-inch long standoff T-Arm antenna mounts with interconnecting arm braces. AT&T would install six panel antennas (3 relocated and 3 new) and install nine RRUs (3 relocated, 6 new) on the new T-Arm mounts.

A Professional Engineer duly licensed in the State of Connecticut certified that the structure is adequate to support the proposed loading.

The facility would have a cumulative worst-case power density of 25.7 percent of the applicable limit using a -10 dB off-beam adjustment.

The Notice of Exempt Modification and a copy of the Council's notice of the incomplete Exempt Modification filing was sent to the Town, property owner, and tower owner.

### **Request to Reopen and Modify**

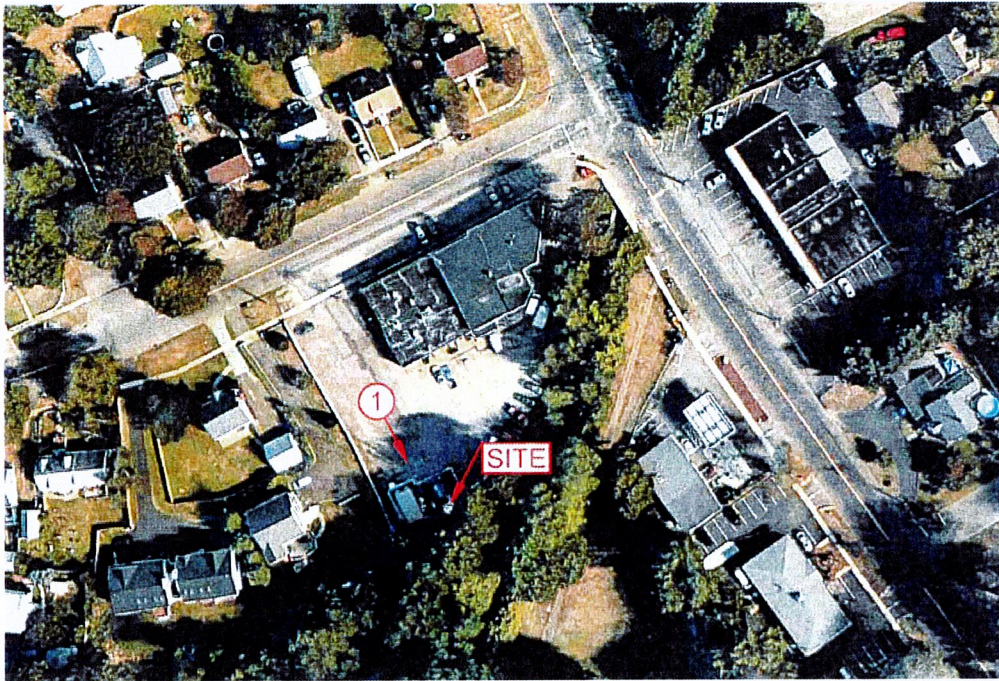
In response to the Council's April 5, 2019 correspondence regarding the incomplete Exempt Modification filing, AT&T's Request to Reopen and Modify the D&O seeks to allow the use of other antenna mounting designs, including but not limited to T-Arm mounts, to promote tower sharing and enhance existing wireless service, as detailed below:

- Restricting antenna installations on the tower to flush mounts has the potential to deter wireless carriers and other entities that do not use this type of antenna mounting equipment from co-locating on the facility;
- The flush mount antenna configuration cannot meet AT&T's current state-of-the art network coverage and capacity demands; and
- The visual effect of AT&T's proposed T-Arm antenna configuration compared to the existing flush mount configuration is not significant, as demonstrated in a visual assessment included within the Request.

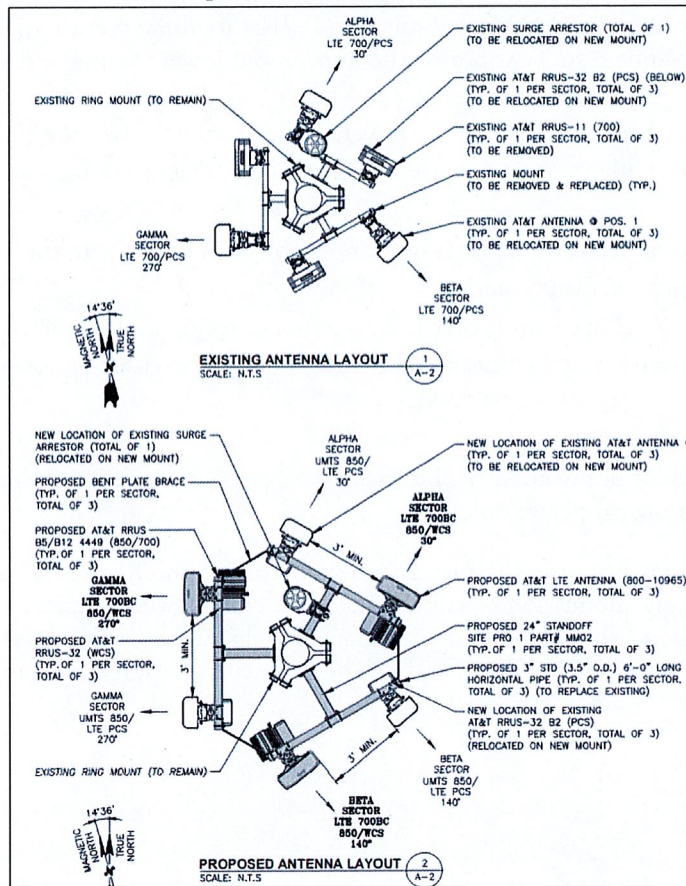
On June 7, 2019, AT&T sent notification of the Request to Reopen and Modify the D&O to the Town of Stratford (Town) and abutting property owners.

On June 10, 2019, the Council notified Parties and Intervenors of the Request to Reopen and Modify the D&O and requested that any submission of comments or statements with respect to whether the Request to Reopen and Modify the D&O should be granted or denied including any request for a hearing be submitted to the Council by close of business on July 11, 2019. The Council has not received any comment to date.

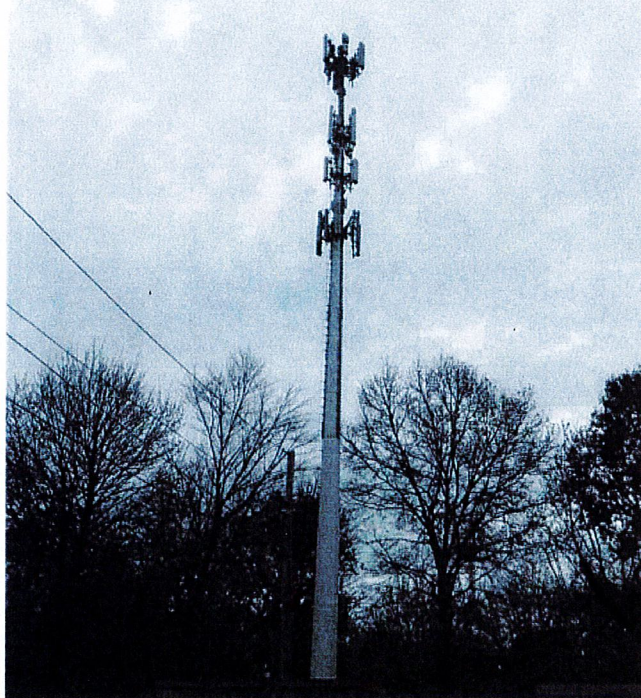
### Site Location



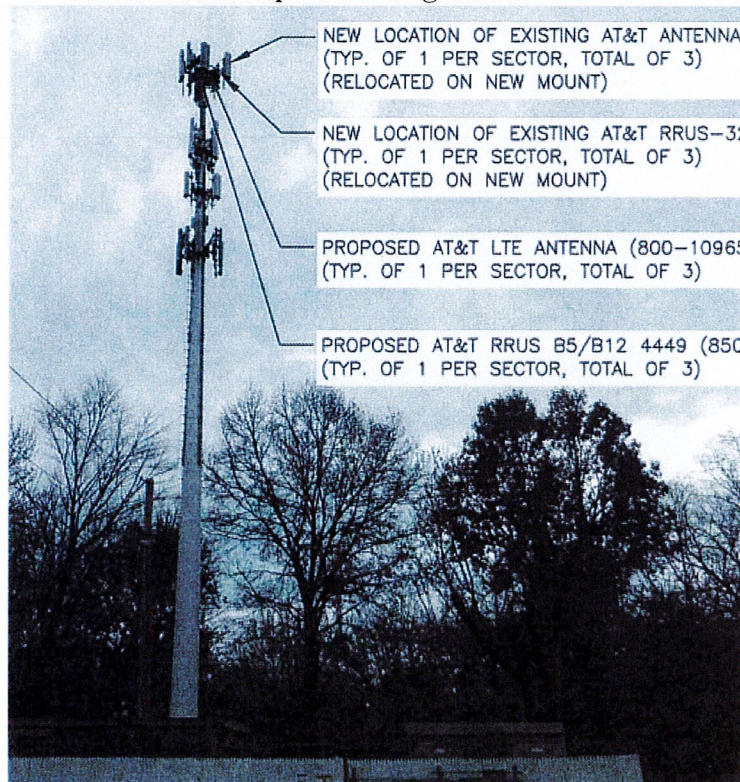
### Exempt Modification Antenna Plan



### Existing Configuration – AT&T at top mount location



### Proposed Configuration





**DOCKET NO. 385** – American Towers LLC Certificate of } Connecticut  
Environmental Compatibility and Public Need for the construction, }  
maintenance and operation of a telecommunications facility located } Siting  
at 23 Stonybrook Road, Stratford, Connecticut. } Council

July 18, 2019

### Decision and Order

In response to the Connecticut Siting Council's (Council) reopening of the record in this docket on July 18, 2019 to consider whether changed conditions exist that would warrant a modification to the original Decision and Order's Condition 1 eliminating the requirement that panel antennas on this telecommunications facility be installed in an exterior, flush mount configuration, the Council hereby rescinds the Decision and Order in Docket 385 rendered on February 25, 2010 and issues this new Decision and Order for the construction, maintenance and operation of a telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of T-Mobile Northeast LLC and other entities, both public and private. The height of the tower may be extended after the date of this Decision and Order pursuant to regulations of the Federal Communications Commission.
2. The tower compound shall be oriented in an east-west configuration along the south property line. The tower shall be located to the maximum feasible distance from the west property line.
3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Stratford for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
  - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping;
  - b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
  - c) details for the installation of architecturally-treated fencing around the compound and the installation of evergreen plantings along the west property boundary, where necessary to provide visual screening to the adjacent residences.
4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
6. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
7. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Stratford public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
8. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
9. At least one wireless telecommunications carrier shall install their equipment and shall become operational not later than 120 days after the tower is erected. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.
10. Any request for extension of the time period referred to in Condition 8 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Stratford. Any proposed modifications to this Decision and Order shall likewise be so served.
11. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
12. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.
13. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction, and the commencement of site operation.

We hereby direct that a copy of the staff report and modified Decision and Order be served on each person listed in the Service List, dated March 5, 2015, and notice of issuance published in The Connecticut Post.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

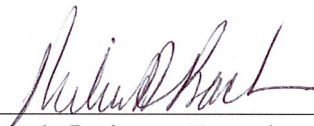
E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

[www.ct.gov/csc](http://www.ct.gov/csc)

**CERTIFICATE  
OF  
ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED  
DOCKET NO. 385**

Pursuant to General Statutes § 4-181a(b), the Connecticut Siting Council hereby reissues a Certificate of Environmental Compatibility and Public Need to American Towers LLC for the construction, maintenance and operation of a telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut. This Certificate is issued in accordance with and subject to the terms and conditions set forth in the Decision and Order of the Council on July 18, 2019.

By order of the Council,

  
\_\_\_\_\_  
Melanie A. Bachman, Executive Director

July 18, 2019



STATE OF CONNECTICUT )

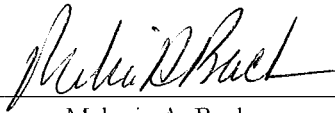
ss. New Britain, Connecticut :

July 19, 2019

COUNTY OF HARTFORD )

I hereby certify that the foregoing is a true and correct copy of the Modified Decision and Order and reissued Certificate of Environmental Compatibility and Public Need by the Connecticut Siting Council, State of Connecticut.

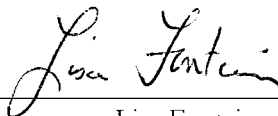
ATTEST:



Melanie A. Bachman  
Executive Director  
Connecticut Siting Council

I certify that a copy of the Modified Decision and Order and reissued Certificate of Environmental Compatibility and Public Need in Docket No. 385 have been forwarded by Certified First Class Return Receipt Requested mail on July 19, 2019, to all parties and intervenors of record as listed on the attached service list, dated March 5, 2015.

ATTEST:



Lisa Fontaine  
Fiscal Administrative Officer  
Connecticut Siting Council

**LIST OF PARTIES AND INTERVENORS**  
**SERVICE LIST**

Status Granted	Document Service	Status Holder (name, address & phone number)	Representative (name, address & phone number)
<p align="center"><b>Certificate Holder</b> (as of 03/05/15)</p>		<p align="center">American Towers LLC</p>	<p>Gregory Mercier Supervising Attorney, US Tower Division American Tower Corporation 10 Presidential Way Woburn, MA 01801 (781) 926-4500 (781) 926-4555 fax <a href="mailto:Greg.mercier@americantower.com">Greg.mercier@americantower.com</a></p>
<p align="center"><b>Applicant</b></p>	<p><input checked="" type="checkbox"/> E-mail</p>     <p><input checked="" type="checkbox"/> E-mail</p>	<p align="center">T-Mobile Northeast LLC</p>	<p>Julie Kohler, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604 (203) 368-0211 (203) 394-9901 <a href="mailto:jkohler@cohenandwolf.com">jkohler@cohenandwolf.com</a></p> <p>Monte E. Frank, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604 (203) 368-0211 (203) 394-9901 <a href="mailto:mfrank@cohenandwolf.com">mfrank@cohenandwolf.com</a></p>



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[www.ct.gov/csc](http://www.ct.gov/csc)

July 19, 2019

Classified/Legal Supervisor

**385190718**

CSC Account No. 237047

Connecticut Post

410 State Street

Bridgeport, CT 06604

[legals@hearstmediact.com](mailto:legals@hearstmediact.com)

FROM: Lisa Fontaine, Fiscal Administrative Officer

RE: **DOCKET NO. 385** - American Towers LLC Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut.

---

Please publish the attached legal notice for one day on the first day possible from receipt of this notice.

Please send an affidavit of publication and invoice to my attention.

Thank you.

RDM/laf





# STATE OF CONNECTICUT

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### NOTICE

Pursuant to General Statutes § 4-181a(b), the Connecticut Siting Council (Council) announces that, on July 18, 2019, the Council modified the Decision and Order in Docket 385, dated February 25, 2010 and reissued the Certificate of Environmental Compatibility and Public Need, thereby eliminating the requirement that panel antennas on this telecommunications facility be installed in an exterior, flush mount configuration in DOCKET NO. 385 - American Towers LLC Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut. This record is available for public inspection in the Council's office, Ten Franklin Square, New Britain, Connecticut.



**DOCKET NO. 385** – T-Mobile Northeast LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and management of a telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut.

Connecticut

Siting

Council

February 25, 2010

### Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, maintenance, and management of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to T-Mobile Northeast LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility at 23 Stonybrook Road, Stratford, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of T-Mobile Northeast LLC and other entities, both public and private, but such tower shall not exceed a height of 100 feet above ground level. Panel antennas shall be installed in an exterior, flush mount configuration and such panel antennas shall not exceed a height of 100 feet above ground level.
2. The tower compound shall be re-located in an east-west orientation along the south property line. The tower shall be re-located appropriately to increase the distance from the tower to the west property line.
3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Stratford for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
  - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
  - b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
  - c) details for the installation of architecturally-treated fencing around the compound and the installation of evergreen plantings along the west property boundary, where necessary to provide visual screening to the adjacent residences.



4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
6. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
7. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Stratford public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
8. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
9. At least one wireless telecommunications carrier shall install their equipment and shall become operational not later than 120 days after the tower is erected. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.
10. Any request for extension of the time period referred to in Condition 8 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Stratford. Any proposed modifications to this Decision and Order shall likewise be so served.
10. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
11. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.

12. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction, and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Connecticut Post.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

**Applicant**

T-Mobile Northeast LLC

**Its Representative**

Julie D. Kohler, Esq.  
Monte E. Frank, Esq.  
Jesse A. Langer, Esq.  
Cohen and Wolf, P.C.  
1115 Broad Street  
Bridgeport, CT 06604



STATE OF CONNECTICUT  
*CONNECTICUT SITING COUNCIL*

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Web Site: [portal.ct.gov/csc](http://portal.ct.gov/csc)

**VIA ELECTRONIC MAIL**

October 25, 2021

Jennille Smith  
Site Acquisition Consultant  
Centerline Communications LLC  
750 West Center Street, Suite 301  
West Bridgewater, MA 02379

RE: **EM-CING-138-210805** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 23 Stonybrook Road, Stratford, Connecticut.

Dear Ms. Smith:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;
4. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
5. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
6. The validity of this action shall expire one year from the date of this letter; and
7. 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 proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated August 3, 2021, and additional information received October 4, 2021 and October 7, 2021. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density

measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Melanie A. Bachman', written in a cursive style.

Melanie A. Bachman  
Executive Director

MAB/CMW/emr

c: The Honorable Laura R. Hoydick, Mayor, Town of Stratford (mayor@townofstratford.com)



January 25, 2023

Stoneybrook Management LLC  
124 Knapp Street  
Easton, CT 06612

Re: Notice of Exempt Modification – AT&T Mobility Site 13682835  
EM-CING-138-200909; EM-CING-138-210805; EM-CING-138-190403  
AT&T Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Property Owner:

AT&T Mobility (“AT&T”) is proposing to modify a wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625). The property is also identified as being on “Ruth Street” on the Stratford GIS webpage. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stoneybrook Management LLC.

AT&T proposes to remove nine (9) existing antennas and one (1) squid and replace them with twelve (12) new panel antennas with four (4) RRHs and two (2) squids at the existing centerline of one hundred seventeen (117) feet on the existing one hundred nineteen (119) foot tall monopole, as more particularly detailed on the enclosed Construction Drawings dated 1/14/2022. The proposal involves minimal groundwork: installing a Fronthaul Gateway and one (1) IDLE ECEDE.

This letter is intended to serve as the required notice to the owner of the property. As required by Regulations of Connecticut State Agencies (“RCSA”) 16-50j-73 the Connecticut Siting Council (“CSC”) has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe AT&T’s proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'Jack Andrews', is written over a blue circular stamp or watermark.

Jack Andrews  
Zoning Manager, Centerline Communications  
10130 Donleigh Drive  
Columbia, MD 21046



January 25, 2023

The Honorable Laura R. Hoydick  
Stratford Town Hall  
2725 Main Street  
Stratford, CT 06615

Re: Notice of Exempt Modification – AT&T Mobility Site 13682835  
EM-CING-138-200909; EM-CING-138-210805; EM-CING-138-190403  
AT&T Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Mayor Hoydick:

AT&T Mobility ("AT&T") is proposing to modify a wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625). The property is also identified as being on "Ruth Street" on the Stratford GIS webpage. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stoneybrook Management LLC.

AT&T proposes to remove nine (9) existing antennas and one (1) squid and replace them with twelve (12) new panel antennas with four (4) RRHs and two (2) squids at the existing centerline of one hundred seventeen (117) feet on the existing one hundred nineteen (119) foot tall monopole, as more particularly detailed on the enclosed Construction Drawings dated 1/14/2022. The proposal involves minimal groundwork: installing a Fronthaul Gateway and one (1) IDLE ECEDE.

This letter is intended to serve as the required notice to the Municipality's Chief Elected Official. As required by Regulations of Connecticut State Agencies ("RCSA") 16-50j-73 the Connecticut Siting Council ("CSC") has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe AT&T's proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "Jack Andrews", is written over a blue circular scribble.

Jack Andrews  
Zoning Manager, Centerline Communications  
10130 Donleigh Drive  
Columbia, MD 21046



January 25, 2023

Daniel Brennan, Zoning Enforcement Officer  
Stratford Town Hall  
2725 Main Street  
Stratford, CT 06615

Re: Notice of Exempt Modification – AT&T Mobility Site 13682835  
EM-CING-138-200909; EM-CING-138-210805; EM-CING-138-190403  
AT&T Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Mr. Brennan:

AT&T Mobility ("AT&T") is proposing to modify a wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625). The property is also identified as being on "Ruth Street" on the Stratford GIS webpage. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stoneybrook Management LLC.

AT&T proposes to remove nine (9) existing antennas and one (1) squid and replace them with twelve (12) new panel antennas with four (4) RRHs and two (2) squids at the existing centerline of one hundred seventeen (117) feet on the existing one hundred nineteen (119) foot tall monopole, as more particularly detailed on the enclosed Construction Drawings dated 1/14/2022. The proposal involves minimal groundwork: installing a Fronthaul Gateway and one (1) IDLE ECEDE.

This letter is intended to serve as the required notice to the Municipal Planning and Zoning Officer. As required by Regulations of Connecticut State Agencies ("RCSA") 16-50j-73 the Connecticut Siting Council ("CSC") has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe AT&T's proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

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Jack Andrews  
Zoning Manager, Centerline Communications  
10130 Donleigh Drive  
Columbia, MD 21046



January 25, 2023

Blake Paynter  
Project Manager, Site Development  
American Tower Corporation  
10 Presidential Way  
Woburn, MA 01801

Re: Notice of Exempt Modification – AT&T Mobility Site 13682835  
EM-CING-138-200909; EM-CING-138-210805; EM-CING-138-190403  
AT&T Wireless Telecommunications Facility @ 23 Stonybrook Road, Stratford, CT 06614

Dear Mr. Paynter:

AT&T Mobility (“AT&T”) is proposing to modify a wireless telecommunications facility on an existing one hundred and nineteen (119) foot tall monopole tower at 23 Stonybrook Road, Stratford, CT 06614 (Latitude: 41.20327777, Longitude: -73.148625). The property is also identified as being on “Ruth Street” on the Stratford GIS webpage. The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Stoneybrook Management LLC.

AT&T proposes to remove nine (9) existing antennas and one (1) squid and replace them with twelve (12) new panel antennas with four (4) RRHs and two (2) squids at the existing centerline of one hundred seventeen (117) feet on the existing one hundred nineteen (119) foot tall monopole, as more particularly detailed on the enclosed Construction Drawings dated 1/14/2022. The proposal involves minimal groundwork: installing a Fronthaul Gateway and one (1) IDLE ECEDE.

This letter is intended to serve as the required notice to the tower owner. As required by Regulations of Connecticut State Agencies (“RCSA”) 16-50j-73 the Connecticut Siting Council (“CSC”) has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe AT&T’s proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

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Jack Andrews  
Zoning Manager, Centerline Communications  
10130 Donleigh Drive  
Columbia, MD 21046



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