



October 25, 2022

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

Re: Notice of Exempt Modification – AT&T Mobility Site # 13756843
AT&T Wireless Telecommunications Facility @ 77 Pease Road, Woodbridge, CT 06525

Dear Ms. Bachman,

New Cingular Wireless (“AT&T”) desires to modify an existing wireless telecommunications facility at the above referenced address. Enclosed please find a check in the amount of Six Hundred and Twenty Five Dollars (\$625.00); an original and two (2) copies of the following documents: the CSC Exempt Modification letter; a Letter of Authorization from the tower owner; the CSC Decision approving the tower; the GIS property map and owner information; a set of Construction Drawings; a Structural Analysis Report; an Antenna Mount Analysis Report; an EME Study Report; and four (4) Notice Confirmations.

If you have any questions, please feel free to contact me; I can be reached at 443-677-0144 or via email at jmandrews@clinellc.com. Thank you for your kind cooperation in this matter

Respectfully Submitted,

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

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



October 20, 2022

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

Re: Notice of Exempt Modification – AT&T Mobility Site # 13756843
AT&T Wireless Telecommunications Facility @ 77 Pease Road, Woodbridge, CT 06525

Dear Ms. Bachman,

AT&T Mobility (“AT&T”) is proposing to modify a wireless telecommunications facility on an existing monopole tower at 77 Pease Road, in Woodbridge, CT 06525 (Latitude: 41.34144444, Longitude: -72.9936). The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Kenneth W. Johnson. The tower was approved by the Council in Docket Number 44, dated July 24, 1984. AT&T was most recently approved modification was **EM-AT &T-167-171229** dated January 24, 2018.

AT&T proposes to remove six (6) antennas and three (3) RRHs and install mount modifications, six (6) antennas, nine (9) RRHs, two (2) DC squids, and three (3) Y cables.

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: American Tower Corporation as Tower Operator/Owner; Kenneth W. Johnson, as Property Owner; Beth Heller, the First Selectwoman of North Haven; and Kristine Sullivan, Land Use Analyst and Acting Zoning Enforcement Officer for Woodbridge.

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.
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 ineligible 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 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 77 Pease Road, Woodbridge, CT 06525.

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 stamp or mark.

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

Enclosures: Exhibit 1 – Letter of Authorization
 Exhibit 2 – GIS Map
 Exhibit 3 – Construction/Mount Modification Drawings
 Exhibit 4 – Structural Analysis Report
 Exhibit 5 – Antenna Mount Analysis Report
 Exhibit 6 – EME Study Report
 Exhibit 7 – (4) Notice Confirmations
 Exhibit 8 – Original Decision CSC Tower Approval

cc: American Tower Corporation - Tower Operator/Owner
 Kenneth W. Johnson - Property Owner
 Beth Heller - First Selectwoman of North Haven
 Kristine Sullivan, Land Use Analyst and Acting 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, Brrandford, 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



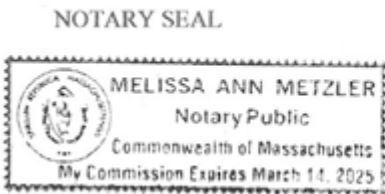
**LETTER OF AUTHORIZATION
CENTERLINE COMMUNICATIONS LLC/ AT&T MOBILITY**

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 30th day of June, 2022.



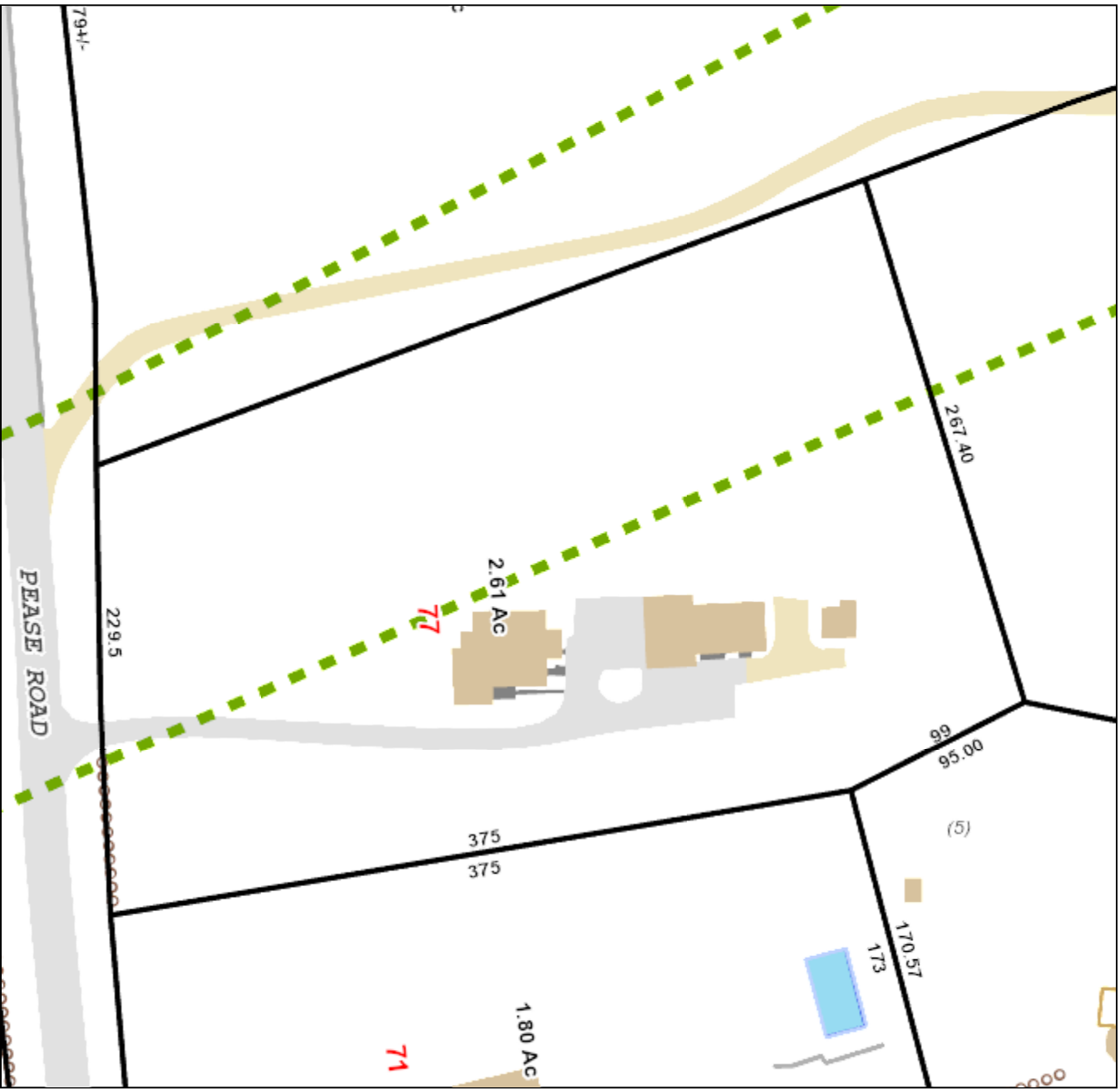
Notary Public 
My Commission Expires: March 14, 2025

Town of Woodbridge

Geographic Information System (GIS)



Date Printed: 10/20/2022

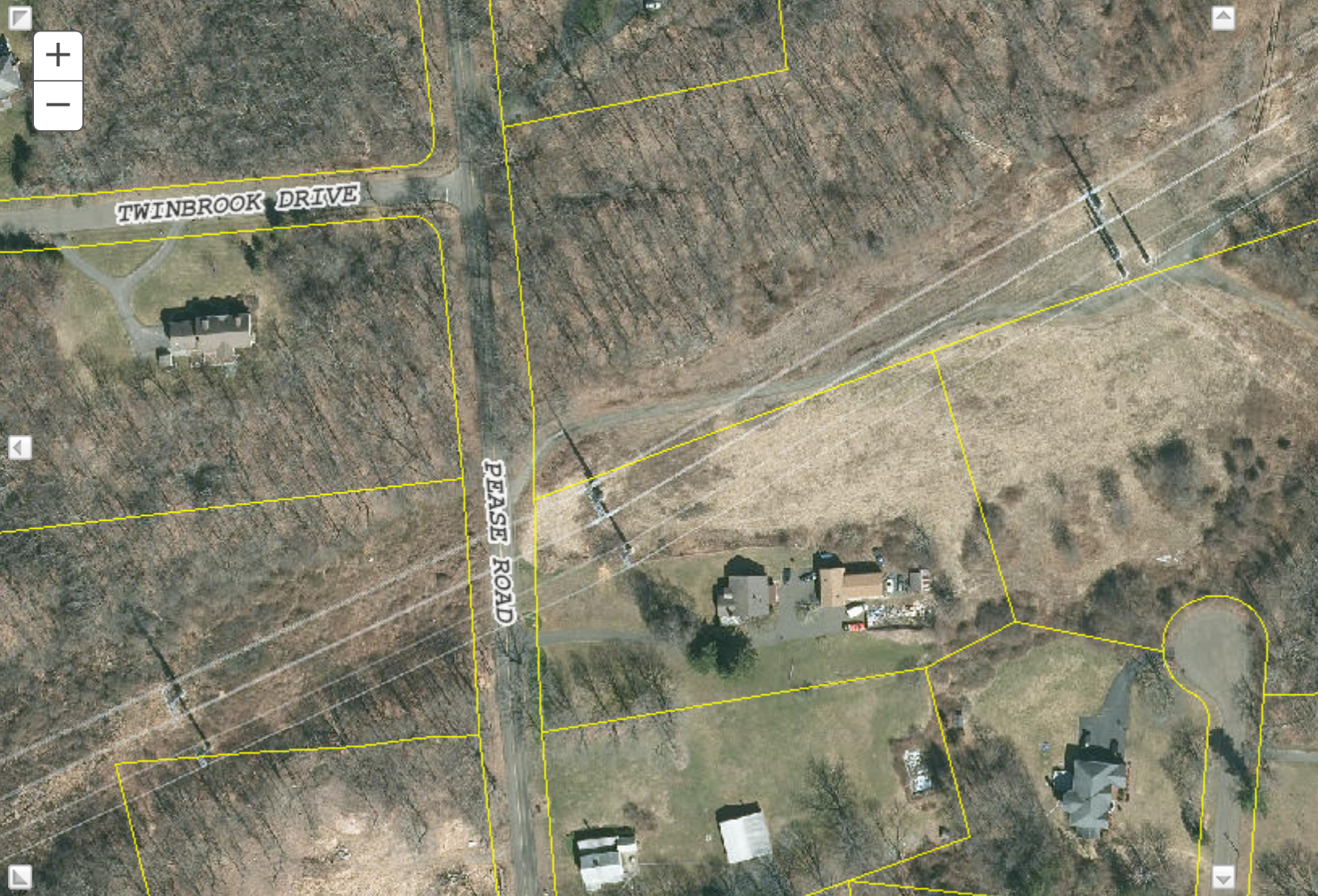


MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Woodbridge and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 80 feet







Town of Woodbridge, CT

Property Listing Report

Map Block Lot

2204/885/18//

Building # 1

PID

825

Account

101506

Property Information

Property Location	18 JEREMY GARDEN LN
Owner	JOHNSON KENNETH W
Co-Owner	
Mailing Address	77 PEASE RD WOODBIDGE CT 06525
Land Use	1300 Vacant
Land Class	R
Zoning Code	A
Census Tract	5

Neighborhood	
Acreage	5.02
Utilities	
Lot Setting/Desc	
Book / Page	0608/0161
Additional Info	

Photo



Sketch



Primary Construction Details

Year Built	0
Building Desc.	Vacant
Building Style	UNKNOWN
Building Grade	NA
Stories	
Occupancy	
Exterior Walls	
Exterior Walls 2	NA
Roof Style	
Roof Cover	
Interior Walls	
Interior Walls 2	NA
Interior Floors 1	
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	NA
Fin Bsmt Quality	NA
Bsmt Gar	NA
Fireplaces	NA

(*Industrial / Commercial Details)

Building Use	
Building Condition	
Sprinkler %	NA
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA
Foundation	NA

DOCKET NO. 44

AN APPLICATION SUBMITTED BY THE SOUTHERN : CONNECTICUT SITING
NEW ENGLAND TELEPHONE COMPANY FOR A :
CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY : COUNCIL
AND PUBLIC NEED FOR THE CONSTRUCTION,
MAINTENANCE AND OPERATION OF FACILITIES TO
PROVIDE CELLULAR SERVICE IN NEW HAVEN COUNTY : July 24, 1984

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut, revisions of 1958, revised to 1983, as amended, be issued to the Southern New England Telephone Company for the construction, operation, and maintenance of a telecommunications tower and associated equipment to provide cellular service at each of the following sites:

Jasudowich tract, Brushy Plain Road, Branford, Connecticut;
Town of Guilford tract, Tanner Marsh Road, Guilford, Connecticut;
Bridgeport Avenue, Milford, Connecticut;
Quagliaro tract, Farmdale Drive, Waterbury, Connecticut;
Pease Road, Woodbridge, Connecticut; and
Dwight Street, North Haven, Connecticut.

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

1. The towers including antennas shall be no taller than necessary to provide the proposed service and in no event shall exceed
 - a) 167' at the Branford site,
 - b) 167' at the Guilford site,
 - c) 117' at the Milford site,
 - d) 167' at the Waterbury site,
 - e) 167' at the Woodbridge site,
 - f) 167' at the North Haven site;
2. A fence not lower than eight feet shall surround each tower and its associated equipment;

3. The applicant or its successor shall notify the Council if and when directional antennas or any other equipment is added to any of these facilities;
4. The applicant or its successor shall permit, in accordance with representations made by it during the proceeding, public or private entities to share space on the facilities, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing;
5. Unless necessary to comply with condition number six, below, no lights shall be installed on any of these towers;
6. The facilities shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations;
7. The applicant shall submit a development and management plan (D&M) for the Branford, Milford, Woodbridge, and North Haven sites pursuant to sections 16-50j-85 through 16-50j-87 of the regulations of state agencies, except that irrelevant items in section 16-50j-86 need only be identified as such. The D&M plans shall include appropriate evergreen screening of the sites, erosion control measures, reseeding plans, and tree removal plans. The applicant shall comply with the reporting requirements of section 16-50j-87 for all sites;
8. Construction activities shall take place during daylight working hours;
9. This decision and order shall be void and the towers and associated equipment approved herein shall be dismantled and removed, or reapplication for any new use shall be made to the Connecticut

Siting Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction;

10. This decision and order shall be void if all construction authorized is not completed within three years of the issuance of this decision.

Pursuant to section 16-50p of the General Statutes, we hereby direct that a copy of the opinion and decision and order be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, New Haven Register, and the Waterbury Republican.

The parties to this proceeding are

The Southern New England Telephone Company (Applicant)
Room 314
227 Church Street
New Haven, Connecticut 06506

ATTENTION: Mr. Peter J. Tyrrell (its attorney)
Senior Attorney

Town of Hamden represented by:
Peter F. Villano, Mayor
Shirley Gonzales, Town Planner
Mr. Hugh Manke, Esquire
Office of the Town Attorney
Memorial Town Hall
2372 Whitney Avenue
Hamden, Connecticut 06518

Inland Wetlands Agency represented by:
Town of Woodbridge
Robert J. Klancko
Chairman
Town Hall
11 Meeting House Lane
Woodbridge, Connecticut 06525

Town Plan and Zoning
Commission
Town of Woodbridge

represented by:

Norman Fineberg
Chairman
Town Hall
11 Meeting House Lane
Woodbridge, Connecticut 06525

The Honorable Peter M. Lerner
State Representative
State of Connecticut
House of Representatives
State Capitol
Hartford, Connecticut 06115

John Menta
Felicia Tencza

represented by:

Ms. Felicia Tencza
580 Gaylord Mountain Road
Hamden, Connecticut 06518

Ms. Renee Robinson
265 Blue Trail
Hamden, Connecticut 06518

(service waived)

Irene L. Wong
Edson H. Mount
Dr. & Mrs. H.M. Fiskio
Dr. & Mrs. Alexander Gottschalk

represented by:

Dr. & Mrs. Alexander Gottschalk
230 Six Rod Highway
Hamden, Connecticut 06518

The Sleeping Giant Park Association

represented by:

Mr. Dag Pfeiffer
President
Box 14
Quinnipiac College
Hamden, Connecticut 06518

West Rock Ridge Park Association

represented by:

Mr. William L. Dohney, Jr., D.D.S.
President
220 Mountain Road
Hamden, Connecticut 06514

Sierra Club

represented by:

Ms. M. Kim Yanoshick
Executive Director
Hartford Chapter
118 Oak Street
Hartford, Connecticut 06106

Quinnipiac College

represented by:

Mr. Richard A. Terry
President
Hamden, Connecticut 06518

Guilford Conservation Commission

represented by:

Ms. Carolyn K. Evans
Chairman
Town Hall
Park Street
Guilford, Connecticut 06437

Mrs. Barbara R. Peterson
Mary & Phil Faust
Anita L. & Richard M. Sullivan

represented by:

Anita L. & Richard M. Sullivan
315 Chestnut Lane
Hamden, Connecticut 06518

Mrs. Pauline H. Hoff

represented by:

Herbert L. Emanuelson, Jr.
Emanuelson and Wynne
205 Church Street
New Haven, Connecticut 06510

Hamden League of Women Voters

represented by:

Mrs. Sherrill Zoller
605 West Woods Road
Hamden, Connecticut 06518
(service waived)

Joan Rosenberg
230 Ridewood Avenue
Hamden, Connecticut 06517

Mr. & Mrs. Richard Sykes
110 Blue Trail
Hamden, Connecticut 06518

Thomas & Claudia Sullivan, Jr.
100 Blue Trail
Hamden, Connecticut 06518

Mr. William N. Pantalone
27 Pease Road
Woodbridge, Connecticut 06525

(service waived)

INTERVENORS

Metromedia TeleCommunications
Nutmeg Telecommunications, Inc.
CSI of New Haven
CSI of Stamford
Cellular Communications, Inc.
LIN Cellular Corp.
Cellular Mobile Services
Maxcell TeleCommunications, Inc.
Mobile Cellular Telephone, Inc.
Cellular Dynamics
Connecticut Corridor Cellular
Chase/Post Cellular

represented by:

Dwight A. Johnson
Murtha, Cullina, Richter
and Pinney
101 Pearl Street
P.O. Box 3197
Hartford, Connecticut 06103-0197

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 24th day of July, 1984.

<u>Council Members</u>	<u>Vote Cast</u>
_____) Gloria Dibble Pond Chairperson	Absent
_____) Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
<i>Brian Emerick</i> _____) Commissioner Stanley Pac Designee: Brian Emerick	Yes Absent Abstain
<i>Owen L. Clark</i> _____) Owen L. Clark	Yes
<i>Fred J. Doosy</i> _____) Fred J. Doosy	Yes
<i>Mortimer A. Gelston</i> _____) Mortimer A. Gelston	Yes
<i>James G. Horsfall</i> _____) James G. Horsfall	Yes
_____) Janet Sitty	Absent
<i>Colin C. Tait</i> _____) Colin C. Tait Acting Chairperson	Yes

STATE OF CONNECTICUT

)

COUNTY OF HARTFORD


:

)

ss. New Britain, July 24, 1984

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:


Christopher S. Wood, Executive Director
Connecticut Siting Council



January 24, 2018

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

www.ct.gov/csc

Ryan Lynch
Real Estate Specialist
Smartlink, LLC
85 Rangeway Road
Building 3, Suite 102
North Billerica, MA 01862

RE: **EM-AT&T-167-171229** – AT&T notice of intent to modify an existing telecommunications facility located at 77 Pease Road, Woodbridge, Connecticut.

Dear Mr. Lynch:

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. 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.

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 December 18, 2017, and additional information received January 22, 2018. 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,



Melanie A. Bachman
Executive Director

MAB/CMW/bm

- c: The Honorable Beth Heller, First Selectman, Town of Woodbridge
- Terry Gilbertson, Zoning Enforcement Officer, Town of Woodbridge
- Jeffrey M. Kaufman, Chm, Planning and Zoning Comm., Town of Woodbridge
- American Tower Corporation, Tower Owner
- Kenneth W. Johnson, Property Owner



Radio Frequency Exposure Analysis Report

July 6, 2022

American Tower on behalf of AT&T
Centerline Communications Project Number: 950035-008

AT&T Site Name: Woodbridge CT 1
Site Number: CTL02010
FA#: 10034971
USID: 61155

Site Address: 77 Pease Road, Woodbridge, CT 06525

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	7.78901 $\mu\text{W}/\text{cm}^2$
Cumulative General Population % MPE (Ground Level):	0.81291%



July 6, 2022

American Tower Corporation
Attn: John Luca, Associate Project Manager
3500 Regency Parkway
Cary, CT 27518

RF Exposure Analysis for Site: **Woodbridge CT 1**

Centerline Communications, LLC (“Centerline”) was contracted to analyze the proposed AT&T facility at **77 Pease Road, Woodbridge, CT 06525** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{\text{MHz}}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of $1 \text{ mW}/\text{cm}^2$ ($1000 \mu\text{W}/\text{cm}^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the 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.

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.



Calculation Methodology

Centerline Communications, LLC has performed theoretical modeling of the site using a software tool, RoofMaster®, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.



Data & Results

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at the Ground.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.



Maximum Calculated Cumulative Power Density (Location: approximately 10' South of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
AT&T A 1	CCI TPA65R-BU6D	700	11.75	153.00	4.00	30.00	1795.48	0.00001	466.67	0.00000
AT&T A 1	CCI TPA65R-BU6D	1900	15.05	153.00	2.00	30.00	1919.34	0.00000	1000.00	0.00000
AT&T A 1	CCI TPA65R-BU6D	1900	15.45	153.00	2.00	30.00	2104.51	0.00000	1000.00	0.00000
AT&T A 1	CCI TPA65R-BU6D	2100	15.95	153.00	2.00	45.00	3541.95	0.00000	1000.00	0.00000
AT&T A 1	CCI TPA65R-BU6D	2100	15.95	153.00	2.00	45.00	3541.95	0.00000	1000.00	0.00000
AT&T A 2	Ericsson AIR6449	3700	23.45	155.00	1.00	108.40	23989.95	0.00013	1000.00	0.00001
AT&T A 3	Ericsson AIR6419	3450	23.45	151.00	1.00	108.40	23989.95	0.00012	1000.00	0.00001
AT&T A 4	CCI DMP65R-BU6D	700	11.35	153.00	2.00	30.00	818.75	0.00000	466.67	0.00000
AT&T A 4	CCI DMP65R-BU6D	850	11.45	153.00	2.00	30.00	837.82	0.00000	566.67	0.00000
AT&T B 5	CCI TPA65R-BU6D	700	11.75	153.00	4.00	30.00	1795.48	0.03223	466.67	0.00691
AT&T B 5	CCI TPA65R-BU6D	1900	15.05	153.00	2.00	30.00	1919.34	0.01608	1000.00	0.00161
AT&T B 5	CCI TPA65R-BU6D	1900	15.45	153.00	2.00	30.00	2104.51	0.01684	1000.00	0.00168
AT&T B 5	CCI TPA65R-BU6D	2100	15.95	153.00	2.00	45.00	3541.95	0.02694	1000.00	0.00269
AT&T B 5	CCI TPA65R-BU6D	2100	15.95	153.00	2.00	45.00	3541.95	0.02694	1000.00	0.00269
AT&T B 6	Ericsson AIR6449	3700	23.45	155.00	1.00	108.40	23989.95	0.27168	1000.00	0.02717
AT&T B 7	Ericsson AIR6419	3450	23.45	151.00	1.00	108.40	23989.95	0.24793	1000.00	0.02479
AT&T B 8	CCI DMP65R-BU6D	700	11.35	153.00	2.00	30.00	818.75	0.01572	466.67	0.00337
AT&T B 8	CCI DMP65R-BU6D	850	11.45	153.00	2.00	30.00	837.82	0.01612	566.67	0.00284
AT&T C 9	CCI TPA65R-BU6D	700	11.75	153.00	4.00	30.00	1795.48	0.00001	466.67	0.00000
AT&T C 9	CCI TPA65R-BU6D	1900	15.05	153.00	2.00	30.00	1919.34	0.00001	1000.00	0.00000
AT&T C 9	CCI TPA65R-BU6D	1900	15.45	153.00	2.00	30.00	2104.51	0.00001	1000.00	0.00000
AT&T C 9	CCI TPA65R-BU6D	2100	15.95	153.00	2.00	45.00	3541.95	0.00001	1000.00	0.00000
AT&T C 9	CCI TPA65R-BU6D	2100	15.95	153.00	2.00	45.00	3541.95	0.00001	1000.00	0.00000
AT&T C 10	Ericsson AIR6449	3700	23.45	155.00	1.00	108.40	23989.95	0.00238	1000.00	0.00024
AT&T C 11	Ericsson AIR6419	3450	23.45	151.00	1.00	108.40	23989.95	0.00172	1000.00	0.00017
AT&T C 12	CCI DMP65R-BU6D	700	11.35	153.00	2.00	30.00	818.75	0.00008	466.67	0.00002
AT&T C 12	CCI DMP65R-BU6D	850	11.45	153.00	2.00	30.00	837.82	0.00001	566.67	0.00000
Unknown A 13	GENERIC PANEL 6FT	850	12.62	130.00	4.00	40.00	2924.96	0.00001	566.67	0.00000
Unknown A 14	GENERIC PANEL 6FT	1900	15.84	130.00	4.00	40.00	6139.32	0.00009	1000.00	0.00001
Unknown A 15	GENERIC PANEL 6FT	2100	16.39	130.00	4.00	40.00	6968.19	0.00005	1000.00	0.00001
Unknown A 16	GENERIC PANEL 6FT	700	12.33	130.00	4.00	40.00	2736.02	0.00009	466.67	0.00002
Unknown B 17	GENERIC PANEL 6FT	850	12.62	130.00	4.00	40.00	2924.96	0.03205	566.67	0.00566
Unknown B 18	GENERIC PANEL 6FT	1900	15.84	130.00	4.00	40.00	6139.32	0.10079	1000.00	0.01008



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
Unknown B 19	GENERIC PANEL 6FT	2100	16.39	130.00	4.00	40.00	6968.19	0.07755	1000.00	0.00776
Unknown B 20	GENERIC PANEL 6FT	700	12.33	130.00	4.00	40.00	2736.02	0.04157	466.67	0.00891
Unknown C 21	GENERIC PANEL 6FT	850	12.62	130.00	4.00	40.00	2924.96	0.00000	566.67	0.00000
Unknown C 22	GENERIC PANEL 6FT	1900	15.84	130.00	4.00	40.00	6139.32	0.00002	1000.00	0.00000
Unknown C 23	GENERIC PANEL 6FT	2100	16.39	130.00	4.00	40.00	6968.19	0.00005	1000.00	0.00001
Unknown C 24	GENERIC PANEL 6FT	700	12.33	130.00	4.00	40.00	2736.02	0.00042	466.67	0.00009
Unknown A 25	GENERIC PANEL 6FT	1900	15.84	119.00	2.00	60.00	4604.49	0.00005	1000.00	0.00001
Unknown A 26	GENERIC PANEL 6FT	600	12.33	119.00	2.00	60.00	2052.02	0.00006	400.00	0.00001
Unknown A 27	GENERIC PANEL 6FT	700	12.33	119.00	2.00	60.00	2052.02	0.00008	466.67	0.00002
Unknown A 28	GENERIC PANEL 6FT	2100	15.84	119.00	2.00	60.00	4604.49	0.00014	1000.00	0.00001
Unknown B 29	GENERIC PANEL 6FT	1900	15.84	119.00	2.00	60.00	4604.49	0.01890	1000.00	0.00189
Unknown B 30	GENERIC PANEL 6FT	600	12.33	119.00	2.00	60.00	2052.02	0.08309	400.00	0.02077
Unknown B 31	GENERIC PANEL 6FT	700	12.33	119.00	2.00	60.00	2052.02	0.06550	466.67	0.01404
Unknown B 32	GENERIC PANEL 6FT	2100	15.84	119.00	2.00	60.00	4604.49	0.04315	1000.00	0.00432
Unknown C 33	GENERIC PANEL 6FT	1900	15.84	119.00	2.00	60.00	4604.49	0.00001	1000.00	0.00000
Unknown C 34	GENERIC PANEL 6FT	600	12.33	119.00	2.00	60.00	2052.02	0.00020	400.00	0.00005
Unknown C 35	GENERIC PANEL 6FT	700	12.33	119.00	2.00	60.00	2052.02	0.00025	466.67	0.00005
Unknown C 36	GENERIC PANEL 6FT	2100	15.84	119.00	2.00	60.00	4604.49	0.00026	1000.00	0.00003
							Cumulative Power Density:	7.78901 $\mu\text{W}/\text{cm}^2$	Cumulative % MPE:	0.81291%



Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at Ground that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **Compliant** with FCC rules and regulations.

Michelle Stone

Michelle Stone

RF EME Technical Writer II

Centerline Communications, LLC



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

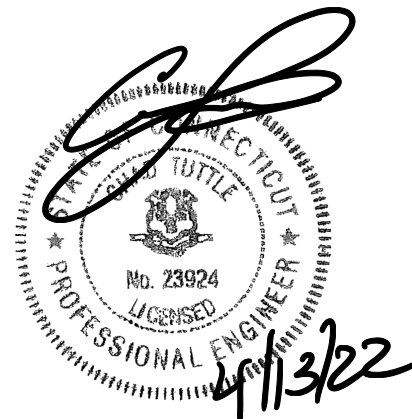


Antenna Mount Analysis Report

ATC Site Name : Woodbridge CT 1
ATC Site Number : 302480
Engineering Number : 13756843_C9_03
Mount Elevation : 153 ft.
Carrier : AT&T Mobility
Carrier Site Name : MRCTB054683
Carrier Site Number : CTL02010
Site Location : 77 Pease Road
Woodbridge, CT 06525-2044
41.3414°, -72.9936°
County : New Haven
Date : April 13, 2022
Max Usage : 69%
Result : Pass

Prepared By:
Erika Ruiz
Project Engineer

Reviewed By:



COA: PEC.0001564 Expires: 02/01/2023



Table of Contents

Introduction 1

Supporting Documents..... 1

Analysis..... 1

Conclusion..... 1

Antenna Loading..... 2

Structure Usages..... 2

Mount Layout 3

Photo Log 4

Standard Conditions5

Calculations Attached



Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 153 ft.

Supporting Documents

Spec. Sheet	Spec Sheet for Kenwood Part #T1542KT12XS-M-H35, dated February 07, 2020
RFDS	RFDS dated January 27, 2022
Photos	Site photos from 2020

Analysis

This antenna mount was analyzed using RISA-3D v20.0.1 analysis software

Basic Wind Speed:	119 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1.0" radial ice concurrent
Codes:	ANSI/TIA-222-H
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height:	0 ft.
Crest Length:	0 ft.
Spectral Response:	$S_s = 0.2$, $S_1 = 0.054$
Site Class:	D – Stiff Soil
Live Loads:	$L_m = 500$ lbs, $L_v = 250$ lbs

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed. The mount can support the equipment as described in this report. Analysis is based on new Kenwood Part #T1542KT12XS-M-H35 [ATT P/N: ANT.16864, TIA-5053 Classification] and 2-1/2" Std. Pipe x 10'-0" long Valmont# P30120 P/N: ANT.16008 connected to SitePro1 WWM02-DCP "or equivalent approved Conmat item".



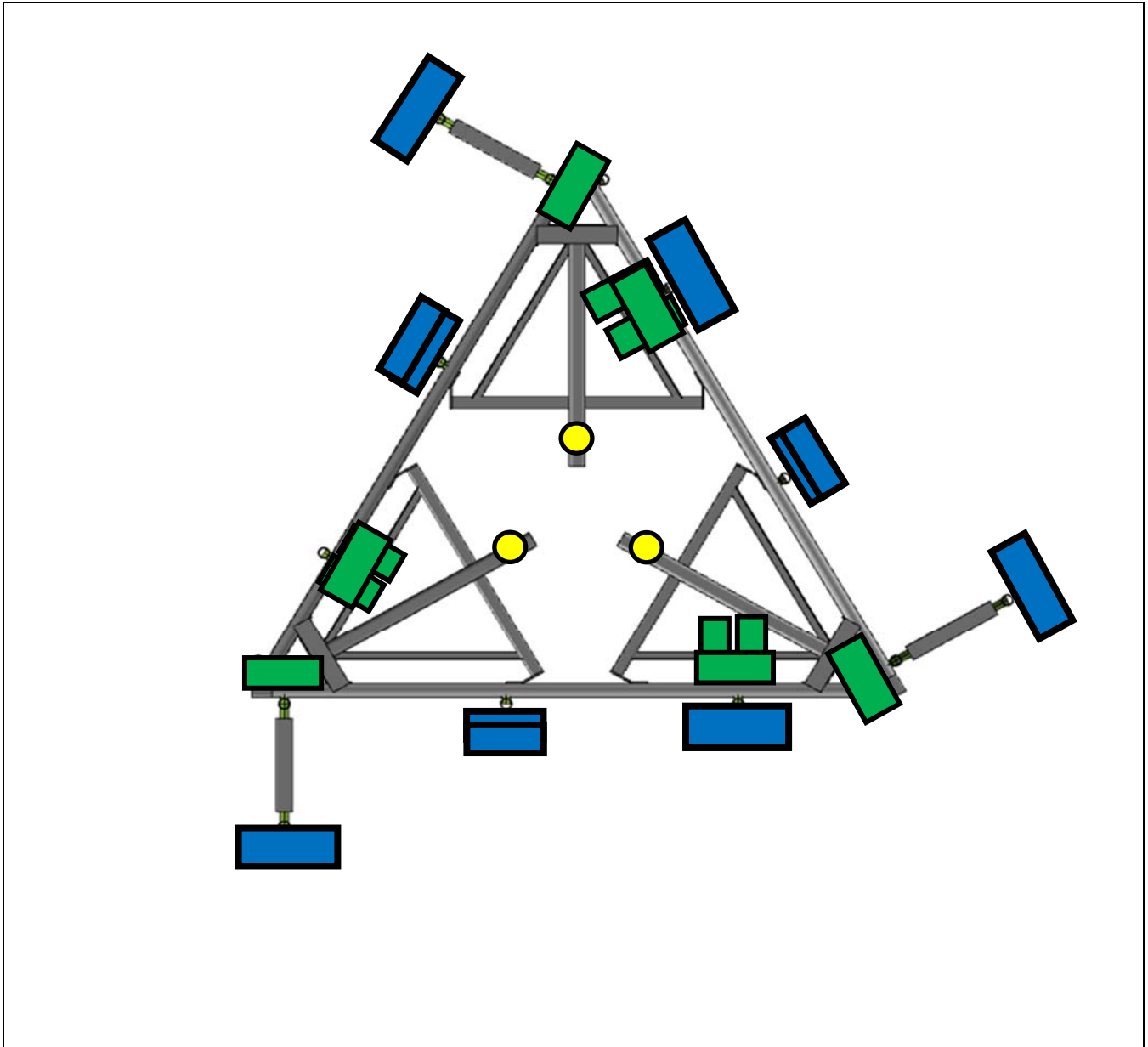
Antenna Loading

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
153	155	3	Ericsson AIR 6449 B77D
	153	3	CCI TPA65R-BU6DA-K
		3	CCI DMP65R-BU8D
		2	Raycap DC6-48-60-18-8C-EV
		1	Raycap DC6-48-60-18-8F ("Squid")
		3	Ericsson RRUS 32 B2
		3	Ericsson RRUS 4449 B5, B12
		3	Ericsson RRUS 4426 B66
		3	Ericsson RRUS 4478 B14
	151	3	Ericsson AIR 6419 B77G
39	39	1	Generic GPS

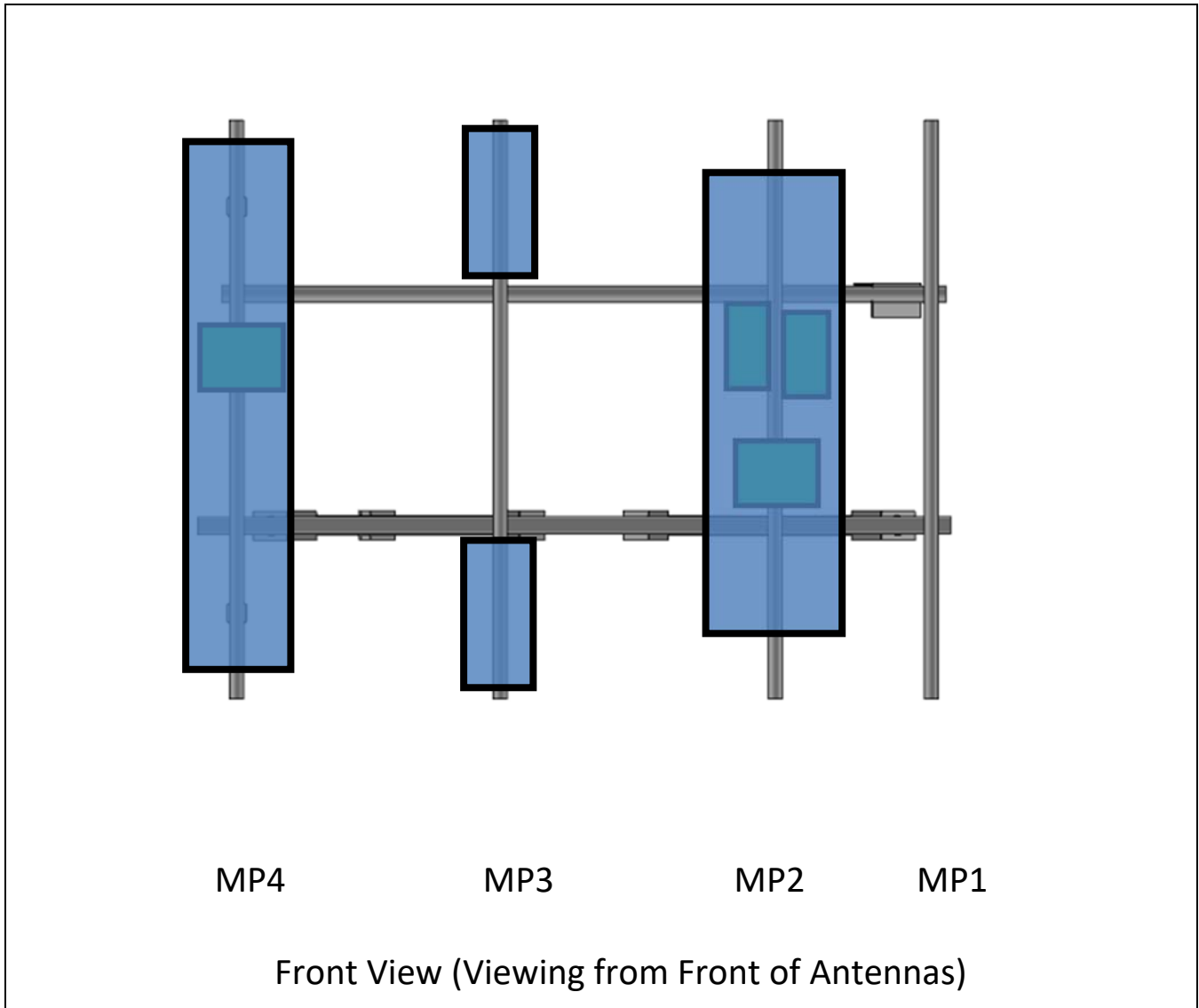
Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Main Horizontals	22%	Pass
Support Rails	43%	Pass
Support Tubes	50%	Pass
Support Angles	26%	Pass
Connection Angles	32%	Pass
Connection Plates	23%	Pass
Mount Pipes	69%	Pass
Standoff Kit	10%	Pass

Mount Layout



Equipment Layout



	Antenna Model	Location
1	Ericsson AIR 6449 B77D	MP3
2	CCI TPA65R-BU6DA-K	MP2
3	CCI DMP65R-BU8D	MP4
4	Raycap DC6-48-60-18-8C-EV	Support Tubes
5	Raycap DC6-48-60-18-8F("Squid")	Support Tubes
6	Ericsson RRUS 32 B2	MP2
7	Ericsson RRUS 4449 B5, B12	MP4 (Back Pipe)
8	Ericsson RRUS 4426 B66	MP 2
9	Ericsson RRUS 4478 B14	MP 2
10	Ericsson AIR 6419 B77G	MP 3



Standard Conditions

All engineering services performed by B+T Group, Tulsa 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 B+T Group
- Manufacturers drawings for Kenwood T1542KT12XS-M-H35 used for analysis
- The following assumptions have been included in the analysis of the mount:

Component	Section	Length	Note
Proposed Mount Pipes	2-1/2" Std. Pipe	10'-0"	All Positions, All Sectors

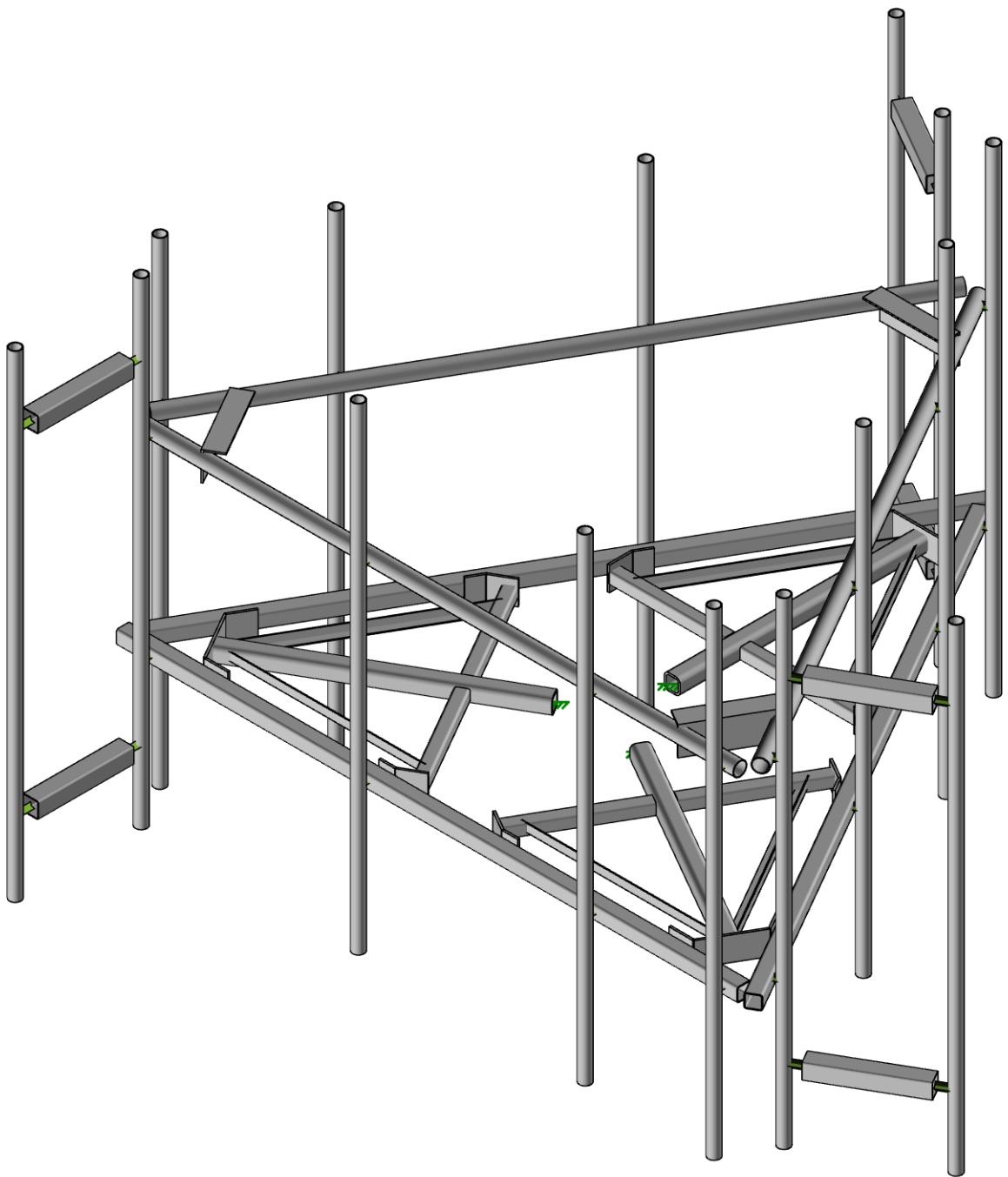
It is the responsibility of the client to ensure that the information provided to B+T Group and used in the performance of our engineering services is correct and complete.

American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

All connections are to be verified for condition and tightness by the installation contractor preceding any changes to the appurtenance mounting system and/or equipment attached to it.

Unless explicitly agreed by both the client and B+T Group, 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. B+T Group is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

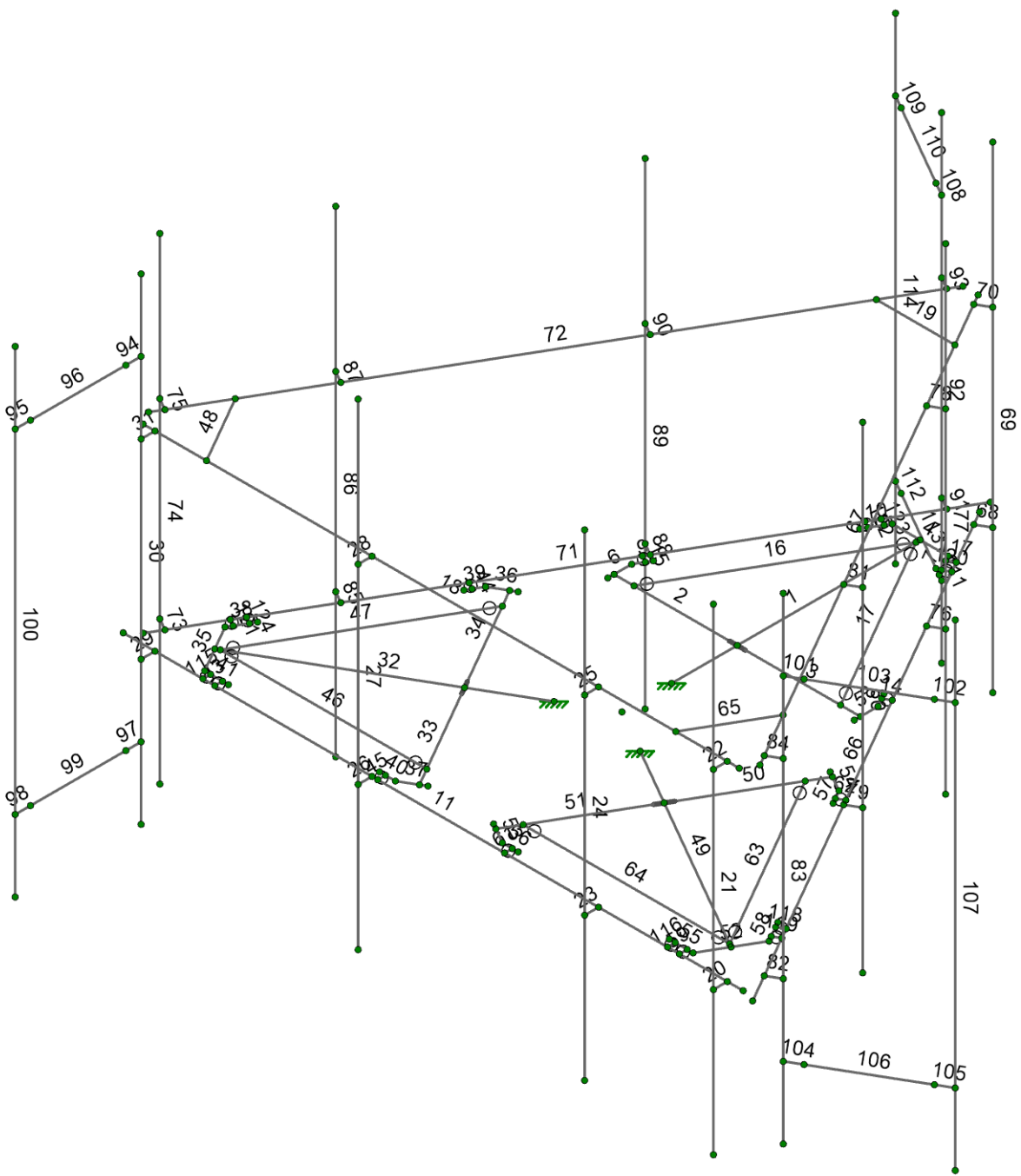


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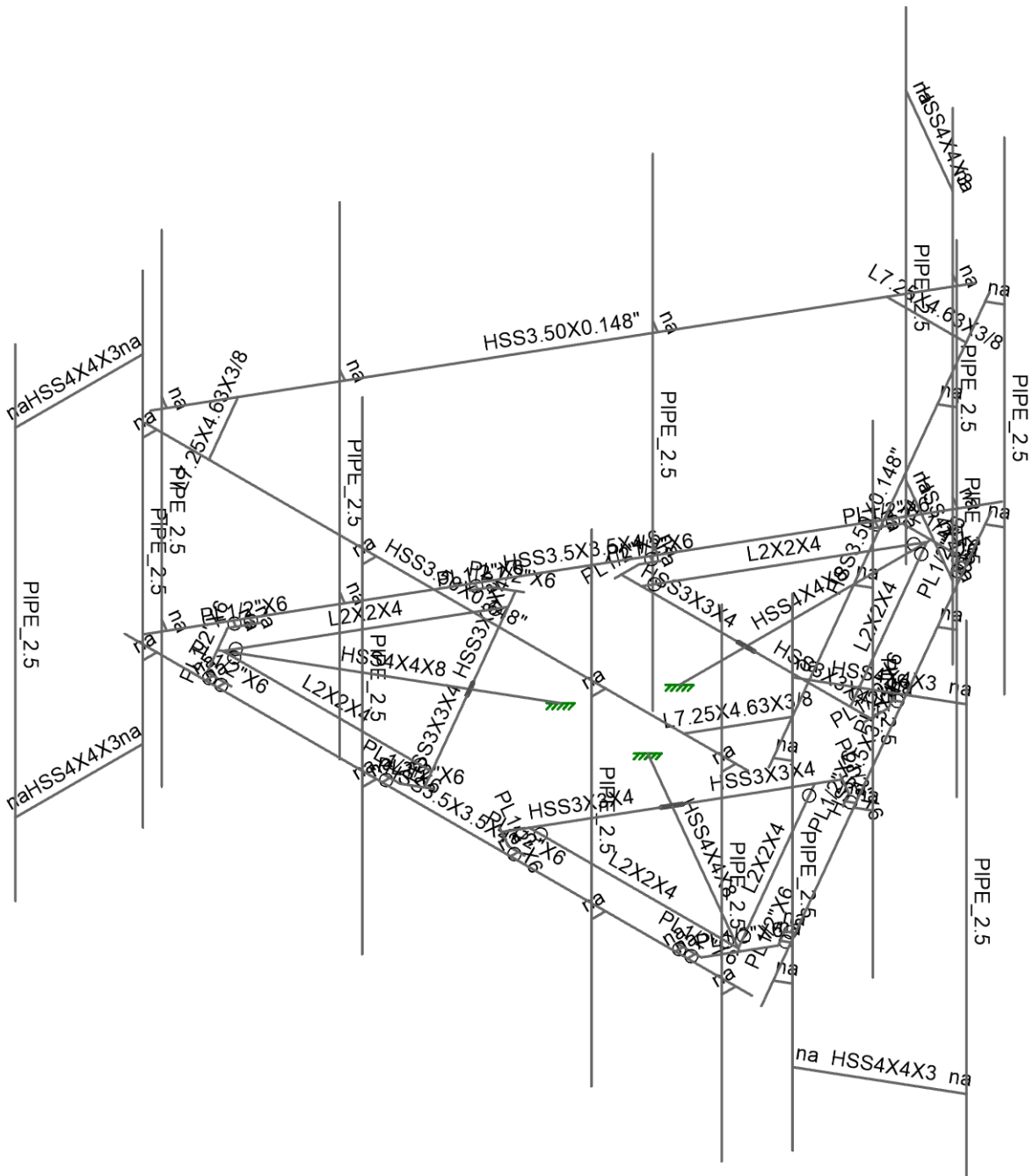
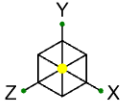
B+T Group
MSP
162454.002.01

302480 - Woodbridge CT 1

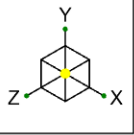
SK-1
Apr 13, 2022
162454_002_01_Woodbridge CT 1_CT.R3D



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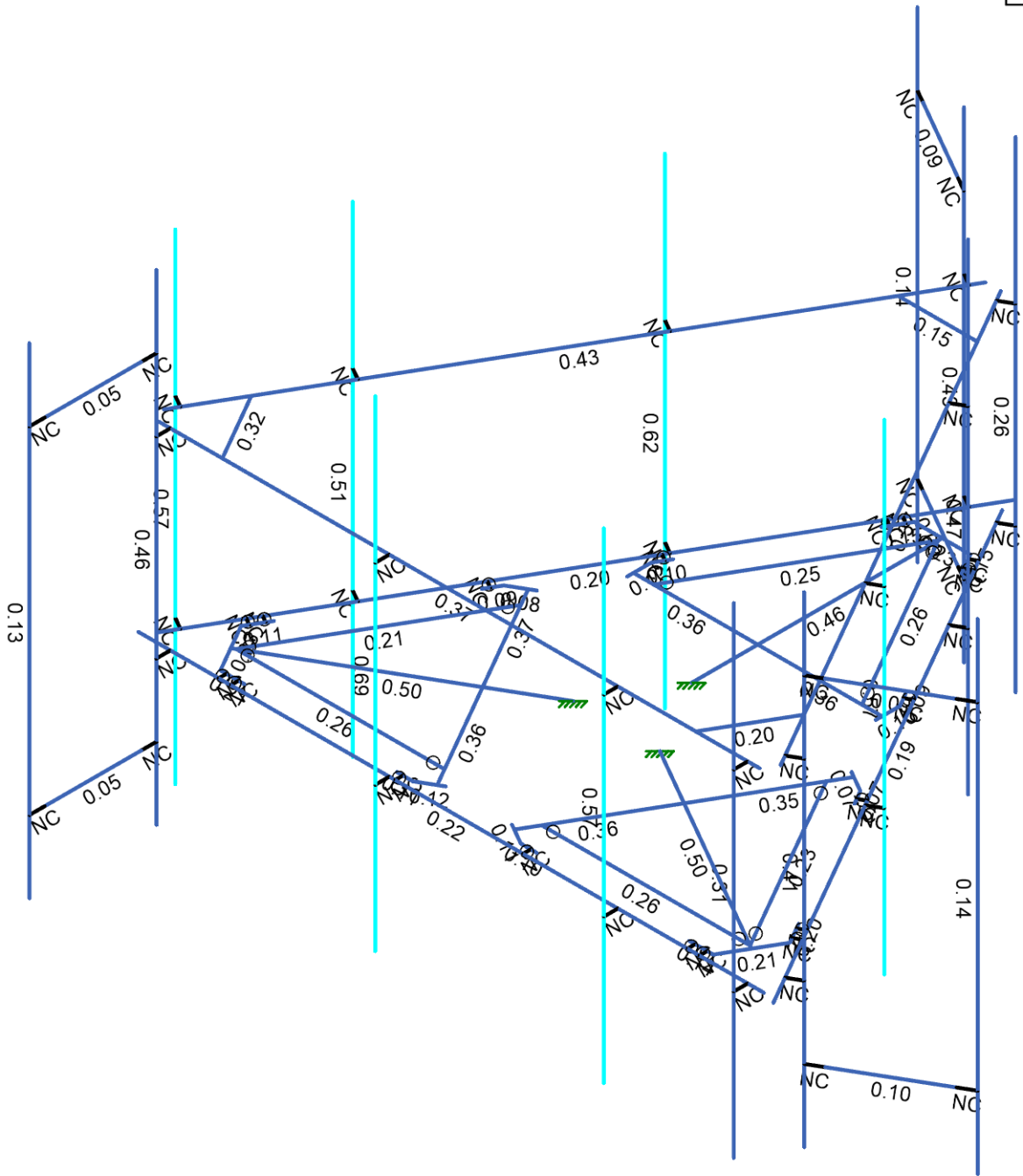


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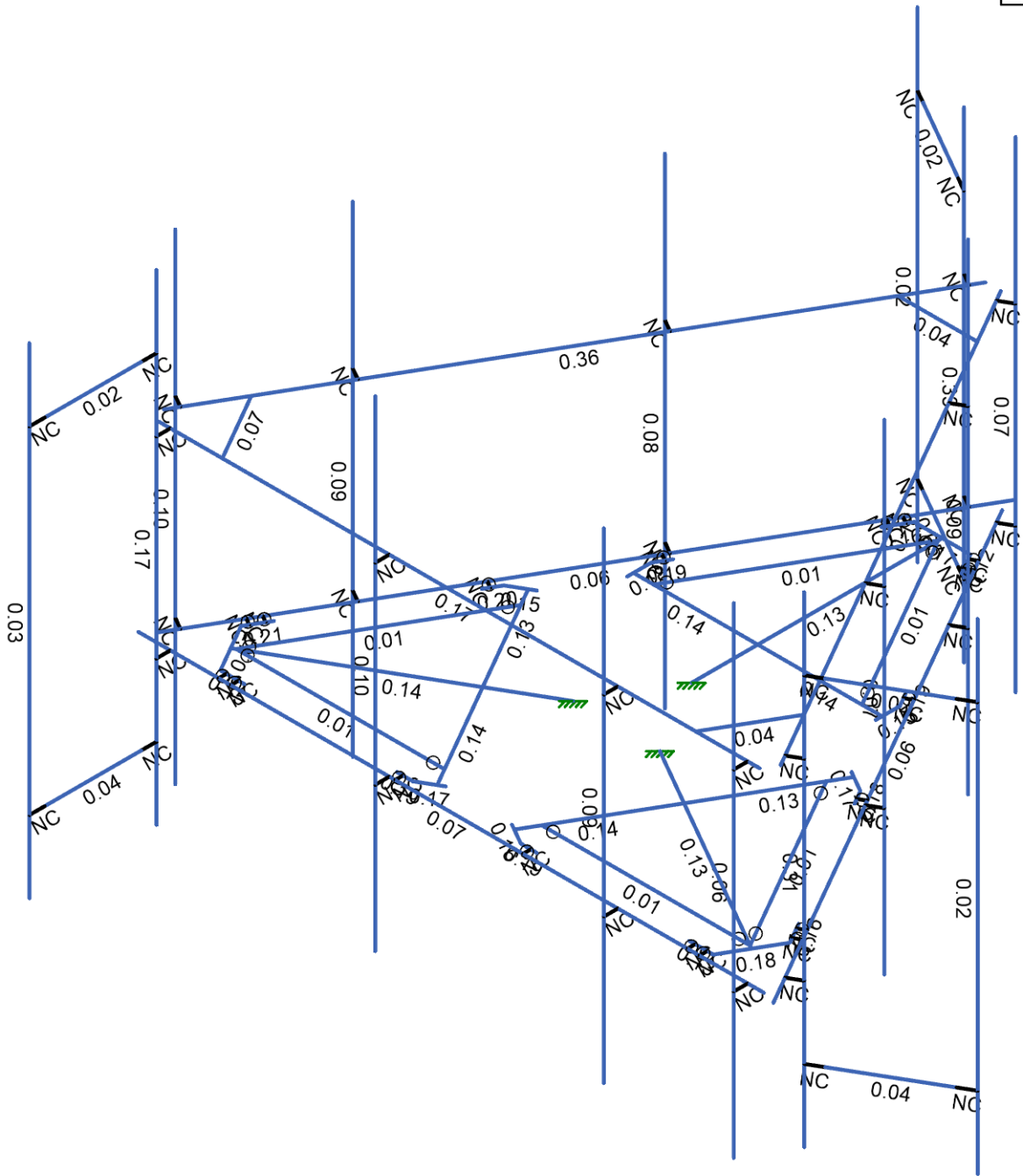
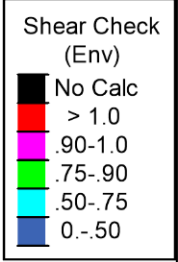
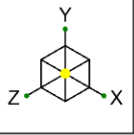


Code Check (Env)

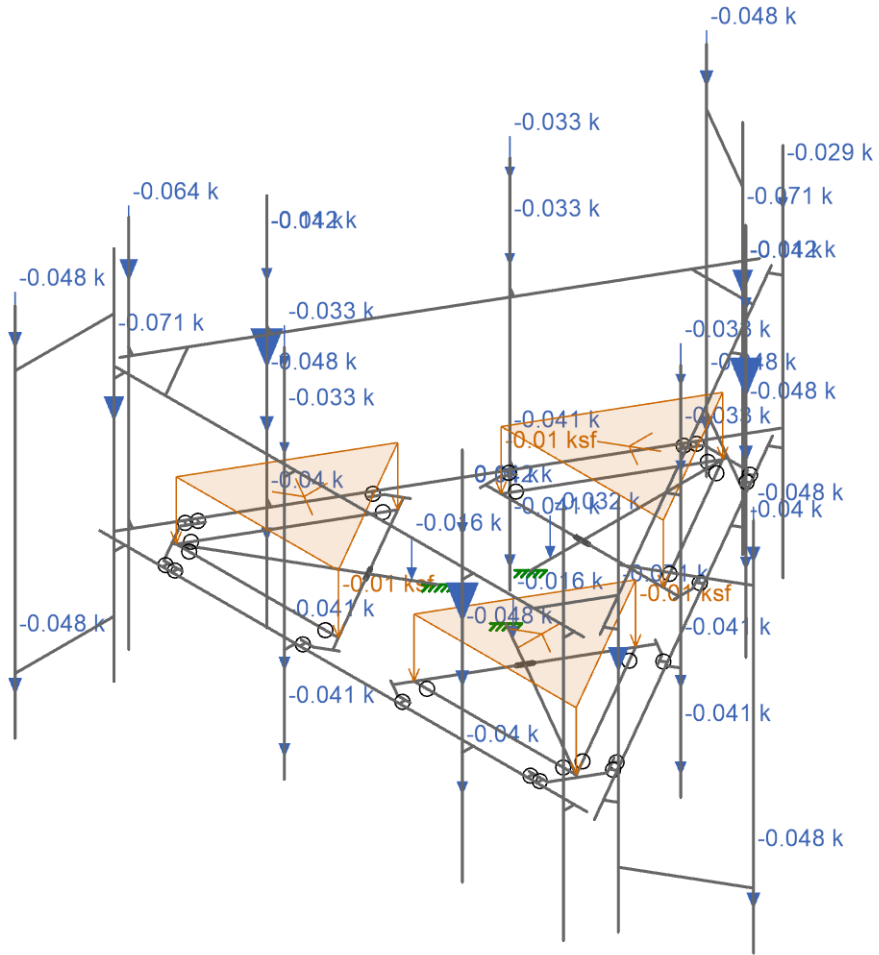
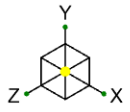
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- .50-.75
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Member Code Checks Displayed (Enveloped)
Envelope Only Solution



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution



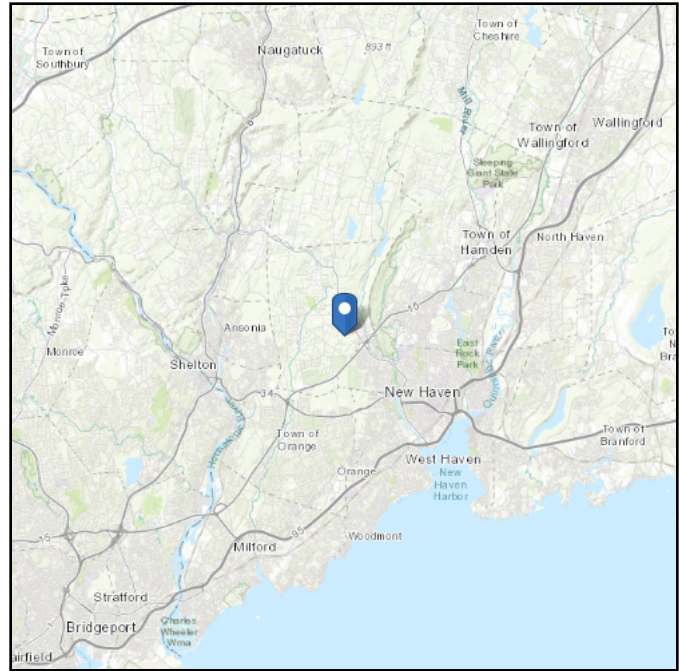
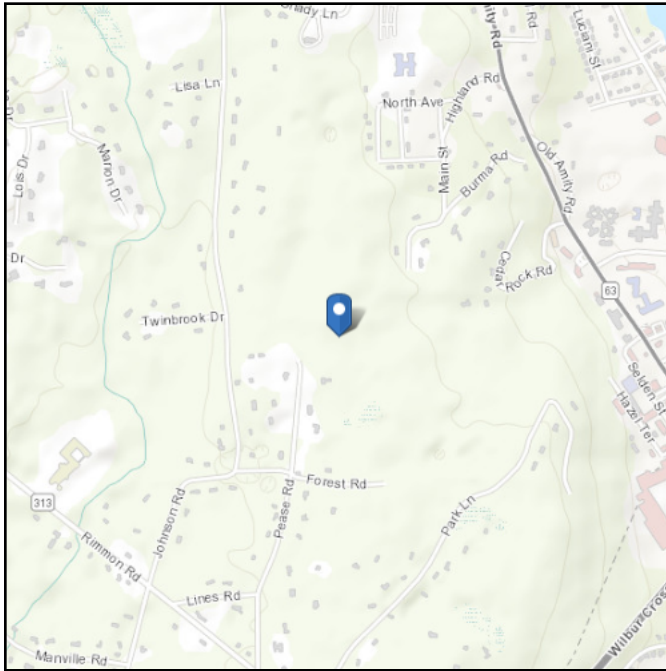
Loads: BLC 1, Dead

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 324.23 ft (NAVD 88)
Latitude: 41.3414
Longitude: -72.9936



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: Thu Mar 17 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).

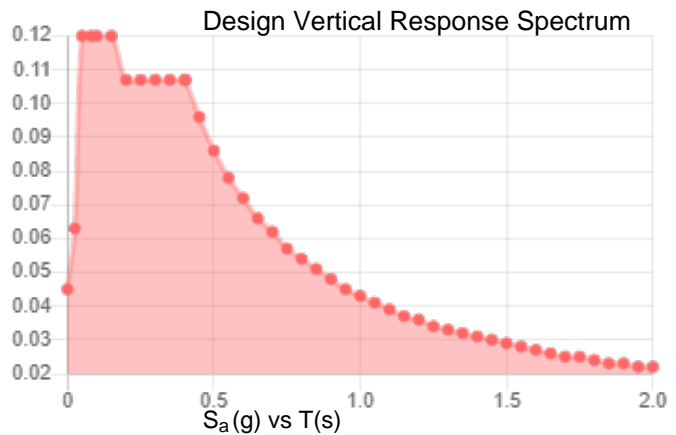
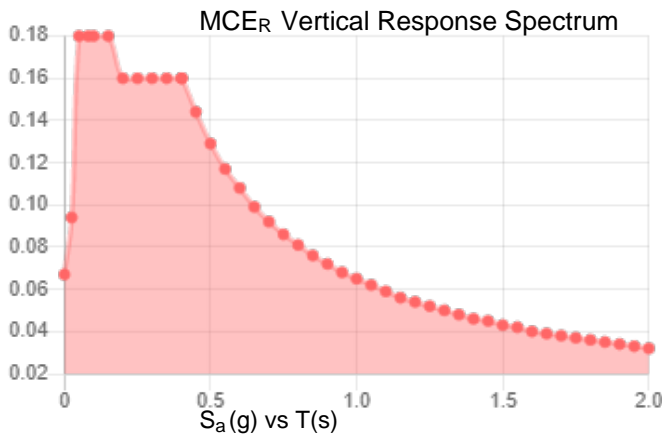
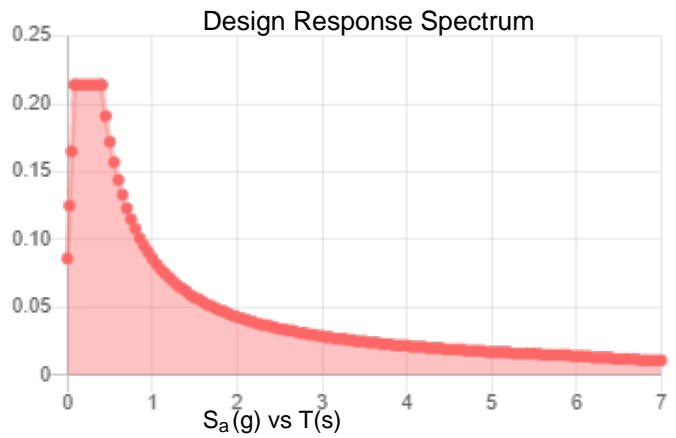
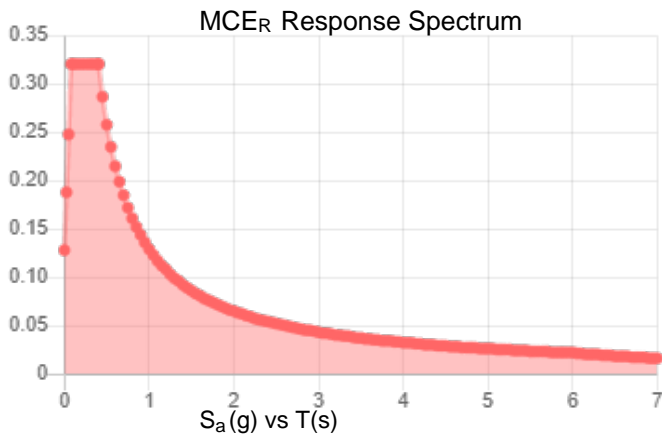
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

Results:

S_s :	0.2	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.112
F_v :	2.4	PGA _M :	0.177
S_{MS} :	0.321	F_{PGA} :	1.576
S_{M1} :	0.129	I_e :	1
S_{DS} :	0.214	C_v :	0.701

Seismic Design Category B



Data Accessed: Thu Mar 17 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

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: Thu Mar 17 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.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

PROJECT	162454.002.01 - Woodbridge CT 1, C1 KSC	
SUBJECT	Platform Mount Analysis	
DATE	04/13/22	



B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Tower Type	:	Monopole	
Ground Elevation	z_s :	324 ft	[ASCE7 Hazard Tool]
Tower Height	:	152.00 ft	
Mount Elevation	:	153.00 ft	
Antenna Elevation	:	155.00 ft	
Crest Height	:	0 ft	
Risk Category	:	II	[Table 2-1]
Exposure Category	:	B	[Sec. 2.6.5.1.2]
Topography Category	:	1.00	[Sec. 2.6.6.2]
Wind Velocity	V :	119 mph	[ASCE7 Hazard Tool]
Ice wind Velocity	V_i :	50 mph	[ASCE7 Hazard Tool]
Service Velocity	V_s :	30 mph	[ASCE7 Hazard Tool]
Base Ice thickness	t_i :	1.00 in	[ASCE7 Hazard Tool]
Seismic Design Cat.	:	B	[ASCE7 Hazard Tool]
	S_S :	0.20	
	S_1 :	0.05	
	S_{DS} :	0.21	
	S_{D1} :	0.09	
Gust Factor	G_h :	1.00	[Sec. 16.6]
Pressure Coefficient	K_z :	1.12	[Sec. 2.6.5.2]
Topography Facto	K_{zt} :	1.00	[Sec. 2.6.6]
Elevation Factor	K_e :	0.99	[Sec. 2.6.8]
Directionality Factor	K_d :	0.95	[Sec. 16.6]
Shielding Factor	K_a :	0.90	[Sec. 16.6]
Design Ice Thickness	t_{iz} :	1.17 in	[Sec. 2.6.10]
Importance Factor	I_e :	1	[Table 2-3]
Response Coefficient	C_s :	0.107	[Sec. 2.7.7.1]
Amplification	A_s :	3	[Sec. 16.7]
	q_z :	37.98 psf	

PROJECT	162454.002.01 - Woodbridge CT 1, CT KSC
SUBJECT	Platform Mount Analysis
DATE	04/13/22



B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

B+T GRP

Manufacturer	Model	Qty	Height (in ²)	Width (in ²)	Depth (in ²)	Weight (lbs)	C _a A _a (N) (ft ²)	C _a A _a (T) (ft ²)	C _a A _a (N) Ice (ft ²)	C _a A _a (T) Ice (ft ²)	F _A (N) (k)	F _A (T) (k)	F _A (N) Ice (k)	F _A (T) Ice (k)
CCI ANTENNAS	TPA65R-BU6DA-K	0.5	71.1	25.5	7.6	79.6	7.64	2.77	8.61	3.74	0.26	0.08	0.05	0.01
CCI ANTENNAS	TPA65R-BU6DA-K	0.5					7.64	2.77	8.61	3.74	0.26	0.08	0.05	0.01
ERICSSON	TME-RRUS 4478 B14	1	18.1	8.3	13.4	59.4	1.25	2.02	1.81	2.68	0.04	0.07	0.01	0.01
ERICSSON	TME-RRUS 32 B2	1	27.2	7.0	12.1	53.0	1.67	2.74	2.41	3.55	0.06	0.10	0.01	0.02
ERICSSON	RRUS 4426 B66	1	15.0	13.2	5.8	48.4	1.65	0.73	2.24	1.18	0.06	0.02	0.01	0.00
ERICSSON	AIR 6419 B77G	0.5	28.3	16.1	7.9	66.1	1.90	0.97	2.35	1.36	0.07	0.03	0.01	0.01
ERICSSON	AIR 6419 B77G	0.5					1.90	0.97	2.35	1.36	0.07	0.03	0.01	0.01
ERICSSON	AIR 6449 B77D	0.5	30.4	15.9	8.1	81.6	2.01	1.07	2.49	1.49	0.07	0.04	0.01	0.01
ERICSSON	AIR 6449 B77D	0.5	30.4	15.9	8.1	81.6	2.01	1.07	2.49	1.49	0.07	0.04	0.01	0.01
CCI ANTENNAS	DMP65R-BU8DA	0.5	96.0	20.7	7.7	95.7	8.94	4.06	10.18	5.42	0.31	0.11	0.05	0.02
CCI ANTENNAS	DMP65R-BU8DA	0.5					8.94	4.06	10.18	5.42	0.31	0.11	0.05	0.02
CCI ANTENNAS	TPA65R-BU6DA-K	0.5	71.1	25.5	7.6	79.6	7.64	2.77	8.61	3.74	0.26	0.08	0.05	0.01
CCI ANTENNAS	TPA65R-BU6DA-K	0.5					7.64	2.77	8.61	3.74	0.26	0.08	0.05	0.01
ERICSSON	TME-RRUS 4478 B14	1	18.1	8.3	13.4	59.4	1.25	2.02	1.81	2.68	0.04	0.07	0.01	0.01
ERICSSON	TME-RRUS 32 B2	1	27.2	7.0	12.1	53.0	1.67	2.74	2.41	3.55	0.06	0.10	0.01	0.02
ERICSSON	RRUS 4426 B66	1	15.0	13.2	5.8	48.4	1.65	0.73	2.24	1.18	0.06	0.02	0.01	0.00
ERICSSON	AIR 6419 B77G	0.5	28.3	16.1	7.9	66.1	1.90	0.97	2.35	1.36	0.07	0.03	0.01	0.01
ERICSSON	AIR 6419 B77G	0.5					1.90	0.97	2.35	1.36	0.07	0.03	0.01	0.01
ERICSSON	AIR 6449 B77D	0.5	30.4	15.9	8.1	81.6	2.01	1.07	2.49	1.49	0.07	0.04	0.01	0.01
ERICSSON	AIR 6449 B77D	0.5	30.4	15.9	8.1	81.6	2.01	1.07	2.49	1.49	0.07	0.04	0.01	0.01
CCI ANTENNAS	DMP65R-BU8DA	0.5	96.0	20.7	7.7	95.7	8.94	4.06	10.18	5.42	0.31	0.11	0.05	0.02
CCI ANTENNAS	DMP65R-BU8DA	0.5					8.94	4.06	10.18	5.42	0.31	0.11	0.05	0.02
CCI ANTENNAS	TPA65R-BU6DA-K	0.5	71.1	25.5	7.6	79.6	7.64	2.77	8.61	3.74	0.26	0.08	0.05	0.01
CCI ANTENNAS	TPA65R-BU6DA-K	0.5					7.64	2.77	8.61	3.74	0.26	0.08	0.05	0.01
ERICSSON	TME-RRUS 4478 B14	1	18.1	8.3	13.4	59.4	1.25	2.02	1.81	2.68	0.04	0.07	0.01	0.01
ERICSSON	TME-RRUS 32 B2	1	27.2	7.0	12.1	53.0	1.67	2.74	2.41	3.55	0.06	0.10	0.01	0.02
ERICSSON	RRUS 4426 B66	1	15.0	13.2	5.8	48.4	1.65	0.73	2.24	1.18	0.06	0.02	0.01	0.00
ERICSSON	AIR 6419 B77G	0.5	28.3	16.1	7.9	66.1	1.90	0.97	2.35	1.36	0.07	0.03	0.01	0.01
ERICSSON	AIR 6419 B77G	0.5					1.90	0.97	2.35	1.36	0.07	0.03	0.01	0.01
ERICSSON	AIR 6449 B77D	0.5	30.4	15.9	8.1	81.6	2.01	1.07	2.49	1.49	0.07	0.04	0.01	0.01
ERICSSON	AIR 6449 B77D	0.5	30.4	15.9	8.1	81.6	2.01	1.07	2.49	1.49	0.07	0.04	0.01	0.01

PROJECT	162454.002.01 - Woodbridge CT 1, CT KSC
SUBJECT	Platform Mount Analysis
DATE	04/13/22



B+T Group
 1717 S. Boulder, Suite 300
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B+T GRP

Manufacturer	Model	Qty	Height (in ²)	Width (in ²)	Depth (in ²)	Weight (lbs)	C _a A _a (N) (ft ²)	C _a A _a (T) (ft ²)	C _a A _a (N) Ice (ft ²)	C _a A _a (T) Ice (ft ²)	F _A (N) (k)	F _A (T) (k)	F _A (N) Ice (k)	F _A (T) Ice (k)
CCI ANTENNAS	DMP65R-BU8DA	0.5	96.0	20.7	7.7	95.7	8.94	4.06	10.18	5.42	0.31	0.11	0.05	0.02
CCI ANTENNAS	DMP65R-BU8DA	0.5					8.94	4.06	10.18	5.42	0.31	0.11	0.05	0.02
RAYCAP	DC6-48-60-18-8C-EV	1	31.4	18.3	10.2	16.0	4.79	2.73	5.80	3.60	0.16	0.09	0.03	0.02
RAYCAP	DC6-48-60-18-8C-EV	1	31.4	18.3	10.2	16.0	4.79	2.73	5.80	3.60	0.16	0.09	0.03	0.02
RAYCAP	DC6-48-60-18-8F ("Squid")	1	24.0	11.0	11.0	31.8	0.92	0.92	1.22	1.22	0.03	0.03	0.01	0.01
ALIVE TELECOM	ATC-GD1V4C	1	248.0	2.5	20.0	64.0	5.17	31.69	10.08	35.72	0.18	1.42	0.03	0.25
AMPHENOL	4220.09-445-TXX	1		2.1	2.1	28.6	3.66	3.66	7.84	7.84	0.13	0.13	0.02	0.02
ERICSSON	RRUS 4449 B5/B12	1	17.9	13.2	9.4	71.0	1.97	1.40	2.62	1.98	0.07	0.05	0.01	0.01
ERICSSON	RRUS 4449 B5/B12	1	17.9	13.2	9.4	71.0	1.97	1.40	2.62	1.98	0.07	0.05	0.01	0.01



Node Boundary Conditions							
Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]	
1	2	Reaction					
2	3						
3	4						
4	5						
5	6						
6	7						
7	8						
8	9						
9	10						
10	11						
11	12						
12	13						
13	14						
14	15						
15	16	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
16	17						
17	18						
18	19						
19	20						
20	21						
21	22						
22	23						
23	24						
24	25						
25	26						
26	27						
27	28						
28	29						
29	30	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
30	31						
31	32						
32	33						
33	34						
34	35						
35	36						
36	37						
37	38						
38	39						
39	40						
40	41						
41	42						
42	108						

Member Primary Data									
Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule	
1	1	2	1	SF-H1	Beam	Tube	A500 Gr.B Rect	Typical	
2	2	3	180	SF-H2	Beam	Tube	A500 Gr.B Rect	Typical	
3	3	4	180	SF-H2	Beam	Tube	A500 Gr.B Rect	Typical	
4	4	5		MF-C1	Beam	RECT	A572 Gr.50	Typical	
5	5	6		MF-C2	Beam	RECT	A572 Gr.50	Typical	
6	6	7		MF-C2	Beam	RECT	A572 Gr.50	Typical	
7	7	8		MF-C1	Beam	RECT	A572 Gr.50	Typical	
8	8	9		MF-C2	Beam	RECT	A572 Gr.50	Typical	
9	9	10		MF-C2	Beam	RECT	A572 Gr.50	Typical	
10	10	11		MF-C1	Beam	RECT	A572 Gr.50	Typical	
11	11	12		MF-H1	Beam	Tube	A500 Gr.B Rect	Typical	
12	12	13		RIGID	None	None	RIGID	Typical	
13	13	14		RIGID	None	None	RIGID	Typical	
14	14	15		SF-H3	Beam	Single Angle	A572 Gr.50	Typical	
15	15	16		SF-H3	Beam	Single Angle	A572 Gr.50	Typical	
16	16	17		MF-H2	Beam	HSS Pipe	A500 Gr.B RND	Typical	
17	17	18	180	SF-H4	Beam	Single Angle	A572 Gr.50	Typical	
18	18	19		RIGID	None	None	RIGID	Typical	
19	19	20		MF-P1	Column	Pipe	A53 Gr.B	Typical	
20	20	21		RIGID	None	None	RIGID	Typical	
21	21	22		RIGID	None	None	RIGID	Typical	
22	22	23		MF-P1	Column	Pipe	A53 Gr.B	Typical	
23	23	24		RIGID	None	None	RIGID	Typical	
24	24	25		RIGID	None	None	RIGID	Typical	
25	25	26		MF-P1	Column	Pipe	A53 Gr.B	Typical	
26	26	27		RIGID	None	None	RIGID	Typical	
27	27	28		RIGID	None	None	RIGID	Typical	
28	28	29		RIGID	None	None	RIGID	Typical	
29	29	30		MF-P1	Column	Pipe	A53 Gr.B	Typical	
30	30	31		RIGID	None	None	RIGID	Typical	
31	31	32		SF-H1	Beam	Tube	A500 Gr.B Rect	Typical	
32	32	33	180	SF-H2	Beam	Tube	A500 Gr.B Rect	Typical	
33	33	34	180	SF-H2	Beam	Tube	A500 Gr.B Rect	Typical	
34	34	35		MF-C1	Beam	RECT	A572 Gr.50	Typical	
35	35	36		MF-C2	Beam	RECT	A572 Gr.50	Typical	
36	36	37		MF-C2	Beam	RECT	A572 Gr.50	Typical	
37	37	38		MF-C2	Beam	RECT	A572 Gr.50	Typical	
38	38	39		MF-C1	Beam	RECT	A572 Gr.50	Typical	
39	39	40		MF-C1	Beam	RECT	A572 Gr.50	Typical	
40	40	41		RIGID	None	None	RIGID	Typical	
41	41	42		RIGID	None	None	RIGID	Typical	
42	42	43		RIGID	None	None	RIGID	Typical	
43	43	44		SF-H3	Beam	Single Angle	A572 Gr.50	Typical	
44	44	45		SF-H3	Beam	Single Angle	A572 Gr.50	Typical	
45	45	46	180	SF-H4	Beam	Single Angle	A572 Gr.50	Typical	
46	46	47		SF-H1	Beam	Tube	A500 Gr.B Rect	Typical	
47	47	48	180	SF-H2	Beam	Tube	A500 Gr.B Rect	Typical	
48	48	49	180	SF-H2	Beam	Tube	A500 Gr.B Rect	Typical	
49	49	50		MF-C1	Beam	RECT	A572 Gr.50	Typical	
50	50	51		MF-C2	Beam	RECT	A572 Gr.50	Typical	
51	51	52		MF-C2	Beam	RECT	A572 Gr.50	Typical	
52	52	53		MF-C1	Beam	RECT	A572 Gr.50	Typical	
53	53	54		MF-C2	Beam	RECT	A572 Gr.50	Typical	
54	54	55		MF-C1	Beam	RECT	A572 Gr.50	Typical	
55	55	56		MF-C2	Beam	RECT	A572 Gr.50	Typical	
56	56	57		MF-C1	Beam	RECT	A572 Gr.50	Typical	
57	57	58		RIGID	None	None	RIGID	Typical	
58	58	59		RIGID	None	None	RIGID	Typical	
59	59	60		RIGID	None	None	RIGID	Typical	
60	60	61		SF-H3	Beam	Single Angle	A572 Gr.50	Typical	
61	61	62		SF-H3	Beam	Single Angle	A572 Gr.50	Typical	
62	62	63	180	SF-H4	Beam	Single Angle	A572 Gr.50	Typical	
63	63	64		MF-H1	Beam	Tube	A500 Gr.B Rect	Typical	
64	64	65		MF-H2	Beam	HSS Pipe	A500 Gr.B RND	Typical	
65	65	66		RIGID	None	None	RIGID	Typical	
66	66	67		MF-P1	Column	Pipe	A53 Gr.B	Typical	
67	67	68		RIGID	None	None	RIGID	Typical	
68	68	69		RIGID	None	None	RIGID	Typical	
69	69	70		MF-H1	Beam	Tube	A500 Gr.B Rect	Typical	
70	70	71		MF-H2	Beam	HSS Pipe	A500 Gr.B RND	Typical	
71	71	72		RIGID	None	None	RIGID	Typical	
72	72	73		RIGID	None	None	RIGID	Typical	
73	73	74		MF-P1	Column	Pipe	A53 Gr.B	Typical	
74	74	75		RIGID	None	None	RIGID	Typical	



Member Primary Data (Continued)

Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
75	79	141	140	RIGID	None	None	RIGID	Typical
76	80	142	143	MF-P1	Column	Pipe	A53 Gr.B	Typical
77	81	145	144	RIGID	None	None	RIGID	Typical
78	82	147	146	RIGID	None	None	RIGID	Typical
79	83	148	149	MF-P1	Column	Pipe	A53 Gr.B	Typical
80	84	151	150	RIGID	None	None	RIGID	Typical
81	85	153	152	RIGID	None	None	RIGID	Typical
82	86	154	155	MF-P1	Column	Pipe	A53 Gr.B	Typical
83	87	157	156	RIGID	None	None	RIGID	Typical
84	88	159	158	RIGID	None	None	RIGID	Typical
85	89	160	161	MF-P1	Column	Pipe	A53 Gr.B	Typical
86	90	163	162	RIGID	None	None	RIGID	Typical
87	91	165	164	RIGID	None	None	RIGID	Typical
88	92	166	167	MF-P1	Column	Pipe	A53 Gr.B	Typical
89	93	169	168	RIGID	None	None	RIGID	Typical
90	94	171	170	RIGID	None	None	RIGID	Typical
91	95	173	172	RIGID	None	None	RIGID	Typical
92	96	172	171	WWM Kit	Beam	Tube	A53 Gr.B	Typical
93	97	175	174	RIGID	None	None	RIGID	Typical
94	98	177	176	RIGID	None	None	RIGID	Typical
95	99	176	175	WWM Kit	Beam	Tube	A53 Gr.B	Typical
96	100	178	179	MF-P1	Column	Pipe	A53 Gr.B	Typical
97	101	181	180	RIGID	None	None	RIGID	Typical
98	102	183	182	RIGID	None	None	RIGID	Typical
99	103	182	181	WWM Kit	Beam	Tube	A53 Gr.B	Typical
100	104	185	184	RIGID	None	None	RIGID	Typical
101	105	187	186	RIGID	None	None	RIGID	Typical
102	106	186	185	WWM Kit	Beam	Tube	A53 Gr.B	Typical
103	107	188	189	MF-P1	Column	Pipe	A53 Gr.B	Typical
104	108	191	190	RIGID	None	None	RIGID	Typical
105	109	193	192	RIGID	None	None	RIGID	Typical
106	110	192	191	WWM Kit	Beam	Tube	A53 Gr.B	Typical
107	111	195	194	RIGID	None	None	RIGID	Typical
108	112	197	196	RIGID	None	None	RIGID	Typical
109	113	196	195	WWM Kit	Beam	Tube	A53 Gr.B	Typical
110	114	198	199	MF-P1	Column	Pipe	A53 Gr.B	Typical
111	115	200	201	RIGID	None	None	RIGID	Typical
112	116	202	203	RIGID	None	None	RIGID	Typical
113	117	204	205	RIGID	None	None	RIGID	Typical
114	118	206	207	RIGID	None	None	RIGID	Typical
115	119	208	209	RIGID	None	None	RIGID	Typical
116	120	210	211	RIGID	None	None	RIGID	Typical
117	121	212	213	RIGID	None	None	RIGID	Typical
118	122	214	215	RIGID	None	None	RIGID	Typical
119	123	216	217	RIGID	None	None	RIGID	Typical
120	124	218	219	RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
1	SF-H1	5.208	Lbvy	N/A	N/A	Lateral
2	SF-H2	2.583	Lbvy	N/A	N/A	Lateral
3	SF-H2	2.583	Lbvy	N/A	N/A	Lateral
4	MF-C1	1.167	Lbvy	N/A	N/A	Lateral
5	MF-C2	0.5	Lbvy	N/A	N/A	Lateral
6	MF-C2	0.5	Lbvy	N/A	N/A	Lateral
7	MF-C1	0.5	Lbvy	N/A	N/A	Lateral
8	MF-C2	0.333	Lbvy	N/A	N/A	Lateral
9	MF-C2	0.333	Lbvy	N/A	N/A	Lateral
10	MF-C1	0.5	Lbvy	N/A	N/A	Lateral
11	MF-H1	13	Lbvy	N/A	N/A	Lateral
12	SF-H3	4.33	Lbvy	N/A	N/A	Lateral
13	SF-H3	4.33	Lbvy	N/A	N/A	Lateral
14	MF-H2	12.5	Lbvy	N/A	N/A	Lateral
15	SF-H4	1.647	Lbvy	N/A	N/A	Lateral
16	MF-P1	10	Lbvy	N/A	N/A	Lateral
17	MF-P1	10	Lbvy	N/A	N/A	Lateral
18	MF-P1	10	Lbvy	N/A	N/A	Lateral
19	MF-P1	10	Lbvy	N/A	N/A	Lateral
20	SF-H1	5.208	Lbvy	N/A	N/A	Lateral
21	SF-H2	2.583	Lbvy	N/A	N/A	Lateral
22	SF-H2	2.583	Lbvy	N/A	N/A	Lateral
23	MF-C1	1.167	Lbvy	N/A	N/A	Lateral
24	MF-C2	0.5	Lbvy	N/A	N/A	Lateral
25	MF-C2	0.5	Lbvy	N/A	N/A	Lateral
26	MF-C1	0.5	Lbvy	N/A	N/A	Lateral
27	MF-C2	0.333	Lbvy	N/A	N/A	Lateral
28	MF-C2	0.333	Lbvy	N/A	N/A	Lateral
29	MF-C1	0.5	Lbvy	N/A	N/A	Lateral
30	SF-H3	4.33	Lbvy	N/A	N/A	Lateral
31	SF-H3	4.33	Lbvy	N/A	N/A	Lateral
32	SF-H4	1.647	Lbvy	N/A	N/A	Lateral
33	SF-H1	5.208	Lbvy	N/A	N/A	Lateral
34	SF-H2	2.583	Lbvy	N/A	N/A	Lateral
35	SF-H2	2.583	Lbvy	N/A	N/A	Lateral
36	MF-C1	1.167	Lbvy	N/A	N/A	Lateral
37	MF-C2	0.5	Lbvy	N/A	N/A	Lateral
38	MF-C2	0.5	Lbvy	N/A	N/A	Lateral
39	MF-C1	0.5	Lbvy	N/A	N/A	Lateral
40	MF-C2	0.333	Lbvy	N/A	N/A	Lateral
41	MF-C2	0.333	Lbvy	N/A	N/A	Lateral
42	MF-C1	0.5	Lbvy	N/A	N/A	Lateral
43	SF-H3	4.33	Lbvy	N/A	N/A	Lateral
44	SF-H3	4.33	Lbvy	N/A	N/A	Lateral
45	SF-H4	1.647	Lbvy	N/A	N/A	Lateral
46	MF-H1	13	Lbvy	N/A	N/A	Lateral
47	MF-H2	12.5	Lbvy	N/A	N/A	Lateral
48	MF-P1	10	Lbvy	N/A	N/A	Lateral
49	MF-H1	13	Lbvy	N/A	N/A	Lateral
50	MF-H2	12.5	Lbvy	N/A	N/A	Lateral
51	MF-P1	10	Lbvy	N/A	N/A	Lateral
52	MF-P1	10	Lbvy	N/A	N/A	Lateral
53	MF-P1	10	Lbvy	N/A	N/A	Lateral
54	MF-P1	10	Lbvy	N/A	N/A	Lateral
55	MF-P1	10	Lbvy	N/A	N/A	Lateral
56	MF-P1	10	Lbvy	N/A	N/A	Lateral
57	MF-P1	10	Lbvy	N/A	N/A	Lateral
58	WWM Kit	2	Lbvy	N/A	N/A	Lateral
59	WWM Kit	2	Lbvy	N/A	N/A	Lateral
60	WWM Kit	10	Lbvy	N/A	N/A	Lateral
61	WWM Kit	2	Lbvy	N/A	N/A	Lateral
62	WWM Kit	2	Lbvy	N/A	N/A	Lateral
63	MF-P1	10	Lbvy	N/A	N/A	Lateral
64	WWM Kit	2	Lbvy	N/A	N/A	Lateral
65	WWM Kit	2	Lbvy	N/A	N/A	Lateral
66	MF-P1	10	Lbvy	N/A	N/A	Lateral



Hot Rolled Steel Properties

Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e°F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt	
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3

Basic Load Cases

BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
1	Dead	DL	-1	85		3
2	0 Wind - No Ice	WLZ		85	66	
3	90 Wind - No Ice	WLX		85	66	
4	0 Wind - Ice	WLZ		85	66	
5	90 Wind - Ice	WLX		85	66	
6	0 Wind - Service	WLZ		85	66	
7	90 Wind - Service	WLX		85	66	
8	Ice	OL1		85	66	3
9	0 Seismic	ELZ		85	66	
10	90 Seismic	ELX		85	66	
11	Live Load a	LL	3			
12	Live Load b	LL	3			
13	Live Load c	LL	3			
14	Live Load d	LL	3			
15	Maint LL 1	LL		1		
16	Maint LL 2	LL		1		
17	Maint LL 3	LL		1		
18	Maint LL 4	LL		1		
19	Maint LL 5	LL		1		
20	Maint LL 6	LL		1		
21	Maint LL 7	LL		1		
22	Maint LL 8	LL		1		
23	Maint LL 9	LL		1		
24	Maint LL 10	LL		1		
25	Maint LL 11	LL		1		
26	Maint LL 12	LL		1		
27	Maint LL 13	LL		1		
28	Maint LL 14	LL		1		
29	Maint LL 15	LL		1		
30	Maint LL 16	LL		1		
31	Maint LL 17	LL		1		
32	Maint LL 18	LL		1		
33	Maint LL 19	LL		1		
34	Maint LL 20	LL		1		
35	Maint LL 21	LL		1		
36	Maint LL 22	LL		1		
37	Maint LL 23	LL		1		
38	Maint LL 24	LL		1		
39	BLC 1 Transient Area Loads	None			21	
40	BLC 8 Transient Area Loads	None			21	

Load Combinations

Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4 Dead	Yes	Y	1	1.4					
2	1.2 D + 1.0 - 0 W	Yes	Y	1	1.2	2	1			
3	1.2 D + 1.0 - 30 W	Yes	Y	1	1.2	2	0.866	3	0.5	
4	1.2 D + 1.0 - 60 W	Yes	Y	1	1.2	3	0.866	2	0.5	
5	1.2 D + 1.0 - 90 W	Yes	Y	1	1.2	3	1			
6	1.2 D + 1.0 - 120 W	Yes	Y	1	1.2	3	0.866	2	-0.5	
7	1.2 D + 1.0 - 150 W	Yes	Y	1	1.2	2	-0.866	3	0.5	
8	1.2 D + 1.0 - 180 W	Yes	Y	1	1.2	2	-1			
9	1.2 D + 1.0 - 210 W	Yes	Y	1	1.2	2	-0.866	3	-0.5	
10	1.2 D + 1.0 - 240 W	Yes	Y	1	1.2	3	-0.866	2	-0.5	
11	1.2 D + 1.0 - 270 W	Yes	Y	1	1.2	3	-1			
12	1.2 D + 1.0 - 300 W	Yes	Y	1	1.2	3	-0.866	2	0.5	
13	1.2 D + 1.0 - 330 W	Yes	Y	1	1.2	2	0.866	3	-0.5	
14	1.2 D + 1.0 - 0 W/Ice	Yes	Y	1	1.2	4			8	1
15	1.2 D + 1.0 - 30 W/Ice	Yes	Y	1	1.2	4	0.866	5	0.5	8
16	1.2 D + 1.0 - 60 W/Ice	Yes	Y	1	1.2	5	0.866	4	0.5	8
17	1.2 D + 1.0 - 90 W/Ice	Yes	Y	1	1.2	5	1		8	1
18	1.2 D + 1.0 - 120 W/Ice	Yes	Y	1	1.2	5	0.866	4	-0.5	8
19	1.2 D + 1.0 - 150 W/Ice	Yes	Y	1	1.2	4	-0.866	5	0.5	8
20	1.2 D + 1.0 - 180 W/Ice	Yes	Y	1	1.2	4	-1		8	1
21	1.2 D + 1.0 - 210 W/Ice	Yes	Y	1	1.2	4	-0.866	5	-0.5	8
22	1.2 D + 1.0 - 240 W/Ice	Yes	Y	1	1.2	5	-0.866	4	-0.5	8
23	1.2 D + 1.0 - 270 W/Ice	Yes	Y	1	1.2	5	-1		8	1
24	1.2 D + 1.0 - 300 W/Ice	Yes	Y	1	1.2	5	-0.866	4	0.5	8
25	1.2 D + 1.0 - 330 W/Ice	Yes	Y	1	1.2	4	0.866	5	-0.5	8
26	1.2 D + 1.0 E - 0	Yes	Y	1	1.2	9	1			
27	1.2 D + 1.0 E - 30	Yes	Y	1	1.2	9	0.866	10	0.5	
28	1.2 D + 1.0 E - 60	Yes	Y	1	1.2	10	0.866	9	0.5	
29	1.2 D + 1.0 E - 90	Yes	Y	1	1.2	10	-1			
30	1.2 D + 1.0 E - 120	Yes	Y	1	1.2	10	0.866	9	-0.5	
31	1.2 D + 1.0 E - 150	Yes	Y	1	1.2	9	-0.866	10	0.5	
32	1.2 D + 1.0 E - 180	Yes	Y	1	1.2	9	-1			
33	1.2 D + 1.0 E - 210	Yes	Y	1	1.2	9	-0.866	10	-0.5	
34	1.2 D + 1.0 E - 240	Yes	Y	1	1.2	10	-0.866	9	-0.5	
35	1.2 D + 1.0 E - 270	Yes	Y	1	1.2	10	-1			
36	1.2 D + 1.0 E - 300	Yes	Y	1	1.2	10	-0.866	9	0.5	
37	1.2 D + 1.0 E - 330	Yes	Y	1	1.2	9	0.866	10	-0.5	
38	1.2 D + 1.5 LL a + Service - 0 W	Yes	Y	1	1.2	6	1		11	1.5
39	1.2 D + 1.5 LL a + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	11
40	1.2 D + 1.5 LL a + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	11
41	1.2 D + 1.5 LL a + Service - 90 W	Yes	Y	1	1.2	7	1		11	1.5
42	1.2 D + 1.5 LL a + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	11
43	1.2 D + 1.5 LL a + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	11
44	1.2 D + 1.5 LL a + Service - 180 W	Yes	Y	1	1.2	6	-1		11	1.5
45	1.2 D + 1.5 LL a + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	11
46	1.2 D + 1.5 LL a + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	11
47	1.2 D + 1.5 LL a + Service - 270 W	Yes	Y	1	1.2	7	-1		11	1.5
48	1.2 D + 1.5 LL a + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	11
49	1.2 D + 1.5 LL a + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	11
50	1.2 D + 1.5 LL b + Service - 0 W	Yes	Y	1	1.2	6			12	1.5
51	1.2 D + 1.5 LL b + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	12
52	1.2 D + 1.5 LL b + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	12
53	1.2 D + 1.5 LL b + Service - 90 W	Yes	Y	1	1.2	7	1		12	1.5
54	1.2 D + 1.5 LL b + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	12
55	1.2 D + 1.5 LL b + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	12
56	1.2 D + 1.5 LL b + Service - 180 W	Yes	Y	1	1.2	6	-1		12	1.5
57	1.2 D + 1.5 LL b + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	12
58	1.2 D + 1.5 LL b + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	12
59	1.2 D + 1.5 LL b + Service - 270 W	Yes	Y	1	1.2	7	-1		12	1.5
60	1.2 D + 1.5 LL b + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	12
61	1.2 D + 1.5 LL b + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	12
62	1.2 D + 1.5 LL c + Service - 0 W	Yes	Y	1	1.2	6	1		13	1.5
63	1.2 D + 1.5 LL c + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	13
64	1.2 D + 1.5 LL c + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	13
65	1.2 D + 1.5 LL c + Service - 90 W	Yes	Y	1	1.2	7	1		13	1.5



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

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn	
62	106	HSS4x4x3	0.097	2	3	0.043	2	z	2	80.281	81.27	9.634	9.634	2.196	H1-1b
63	107	PIPE 2.5	0.136	8.438	16	0.021	1.458		2	22.373	50.715	3.596	3.596	1	H1-1b
64	110	HSS4x4x3	0.085	2	7	0.022	2	y	21	80.281	81.27	9.634	9.634	2.184	H1-1b
65	113	HSS4x4x3	0.092	2	2	0.045	2	z	7	80.281	81.27	9.634	9.634	2.139	H1-1b
66	114	PIPE 2.5	0.136	8.438	20	0.024	1.563		5	22.373	50.715	3.596	3.596	1	H1-1b

PROJECT	162454.002.01 - Woodbridge CT 1, C1 KSC			
SUBJECT	Platform Mount Analysis			
DATE	04/13/22	PAGE	1	OF 1



[REF: AISC 360-05]

Reactions at Bolted Connection

Tension	:	5.171	k
Vertical Shear	:	3.804	k
Horizontal Shear	:	0.491	k
Torsion	:	2.28	k.ft
Moment from Horizontal Forces	:	0.462	k.ft
Moment from Vertical Forces	:	11.913	k.ft

Bolt Parameters

Bolt Grade	:	A325	
Bolt Diameter	:	0.625	in
Nominal Bolt Area	:	0.307	in ²
Bolt spacing, Horizontal	:	6	in
Bolt spacing, Vertical	:	6	in
Bolt edge distance, plate height	:	1.5	in
Bolt edge distance, plate width	:	1.5	in
Total Number of Bolts	:	4	bolts

Summary of Forces

Shear Resultant Force	:	3.84	k
Force from Horz. Moment	:	0.84	k
Force from Vert. Moment	:	21.58	k
Shear Load / Bolt	:	0.96	k
Tension Load / Bolt	:	1.29	k
Resultant from Moments / Bolt	:	10.80	k

Bolt Checks

Nominal Tensile Stress, F_{nt}	:	90.00	ksi	[AISC Table J3.2]
Available Tensile Stress, ΦR_{nt}	:	20.72	k/bolt	[Eq. J3-1]
Unity Check, Bolt Tension	:	58.34%		OKAY
Nominal Shear Stress, F_{nv}	:	48.00	ksi	[AISC Table J3.2]
Available Shear Stress, ΦR_{nv}	:	11.05	k/bolt	[Eq. J3-1]
Unity Check, Bolt Shear	:	20.37%		OKAY
Unity Check, Combined	:	78.72%		OKAY
Available Bearing Strength, ΦR_n	:	34.66	k/bolt	
Unity Check, Bolt Bearing	:	2.77%		OKAY

PROJECT	162454.002.01 - Woodbridge CT 1, C1 KSC			
SUBJECT	Platform Mount Analysis			
DATE	04/13/22	PAGE	1	OF 1



B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 (918) 587-4630

[REF: AISC 360-05]

Connecting Member Parameters

Plate Yield Strength, F_y	:	36.00	ksi	[AISC Table 2-5]
Plate Tensile Strength, F_u	:	58.00	ksi	[AISC Table 2-5]
Plate Height	:	9.00	in	
Plate Width	:	9.00	in	
Plate Thickness	:	0.50	in	
Edge Distance	:	1.06	in	
Gross Tension Area, A_{gt}	:	4.50	in ²	
Gross Shear Area, A_{gv}	:	0.75	in ²	
Net Area for tension, A_{nt}	:	4.16	in ²	
Net Area for shear, A_{nt}	:	3.00	in ²	

Plate Check

Available Tensile Yield	:	145.80	k	[Eq. J4-1]
Available Tensile Rupture	:	180.80	k	[Eq. J4-2]
Unity Check, Plate Tension	:	8.29%		OKAY
Available Shear Yield	:	16.20	k	[Eq. J4-3]
Available Shear Rupture	:	104.40	k	[Eq. J4-4]
Unity Check, Plate Shear	:	23.68%		OKAY
Available Block Shear, ΦR_n	:	77.40	k	[Eq. J4-5]
Unity Check, Block Shear	:	4.96%		OKAY



AMERICAN TOWER®
CORPORATION

Post – Modification Structural Analysis Report

Structure : 152 ft Monopole
ATC Site Name : Woodbridge CT 1,CT
ATC Site Number : 302480
Engineering Number : 13756843_C4_06
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : MRCTB054683
Carrier Site Number : CTL02010
Site Location : 77 Pease Road
Woodbridge, CT 06525-2044
41.3414, -72.9936
County : New Haven
Date : September 7, 2022
Max Usage : 93%
Result : Pass

Prepared By:

Thomas Pham
Structural Engineer II

Reviewed By:



COA : PEC.0001553



Table of Contents

Introduction.....	3
Supporting Documents	3
Analysis	3
Conclusion	3
Existing and Reserved Equipment.....	4
Equipment to be Removed	4
Proposed Equipment	4
Structure Usages.....	5
Foundations	5
Deflection and Sway*	5
Standard Conditions	6
Calculations	Attached

Introduction

The purpose of this report is to summarize results of a post – modification structural analysis performed on the 152 ft Monopole to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	AT&T SPEC #AT-8935, dated April 13, 1984 Mapping by Smith Cullum Acquisition #CT-0016, dated May 15, 2001
Foundation Drawing	PIT Foundation Mapping by ATC, Site ID #302480, dated April 1, 2009
Geotechnical Report	Johnson Soil Job #15220, dated May 20, 2002
Modifications	Spectrasite Drawing #CT-0016-E1, dated September 19, 2002 ATC Project #40430532, dated May 29, 2007 ATC Project #42299235, dated November 18, 2008 ATC Project #44303434, dated January 18, 2010 ATC Project #447950F2, dated April 2, 2010 ATC Project #13668990_C6_05, dated May 9, 2022 ATC Project #13756843_C6_05, dated August 31, 2022 (Pending)
Inspection	CLS Engineering Project #41124-13732458_C8_03-01-MA, dated October 8, 2021

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.

Basic Wind Speed:	119 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_s = 0.20, S_i = 0.05$
Site Class:	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. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
167.0	1	Generic 22' Omni	Triangular Platform with Handrails and Side Arms	(2) 1 5/8" Coax	OTHER
160.0	1	Generic 20' Dipole		(2) 1 5/8" Coax	
153.0	3	Ericsson RRUS 32 B2		(6) 1 5/8" Coax	AT&T MOBILITY
	1	Raycap DC6-48-60-18-8F ("Squid")			
130.0	3	Ericsson Air6449 B41	Triangular Platform with Handrails and Kickers	(3) 1 1/4" Hybriflex Cable (1) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Ericsson Radio 4449 B71 B85A			
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson 4460 BAND 2/25			
119.0	1	Raycap RCMD6-6627-PF-48	T-Arm	(11) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
	6	JMA Wireless MX06FRO660-03			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	6	ADC ClearGain Dual Band 800/1900 MHz			
	3	Antel BXA-80063/4CF			
	3	Samsung MT6407-77A			
107.0	1	Generic GPS	Flush	(1) 1/2" Coax	AT&T MOBILITY
39.0	1	Generic GPS	Flush	(1) 1/2" Coax	

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
153.0	6	Powerwave Allgon LGP13519	-	(1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (1) 3" conduit	AT&T MOBILITY
	6	LGP Allgon TMA-DD 1900			
	3	CCI HPA-65R-BUU-H6			
	6	Powerwave Allgon 7770.00			
	3	Ericsson RRUS 11 (Band 12) (55 lb)			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
155.0	3	Ericsson Air 6449 B77D	Triangular Platform with Handrails and Side Arms	(3) 0.40" (10.3mm) Fiber (2) 0.82" (20.8mm) 8 AWG 6 (4) 0.92" (23.4mm) Cable (2) 2" conduit (1) 3/8" (0.38"-9.5mm) RET Control Cable	AT&T MOBILITY
153.0	3	Ericsson RRUS 4426 B66			
	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 4478 B14			
	2	Raycap DC6-48-60-18-8C-EV			
	3	CCI DMP65R-BU8D			
	3	CCI TPA-65R-BU6DA-K			
151.0	3	Ericsson AIR 6419 B77G			

¹ 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	Controlling Usage	Pass/Fail
Anchor Bolts	79%	Pass
Shaft	93%	Pass
Base Plate	31%	Pass
Flange Plate	24%	Pass
Reinforcement	90%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	2703.4	17%
Axial (Kips)	54.8	2%

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.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
155.0	Ericsson Air 6449 B77D	AT&T MOBILITY	2.430	1.890
153.0	Ericsson RRUS 4449 B5, B12			
	Ericsson RRUS 4426 B66			
	Ericsson RRUS 4478 B14			
	Raycap DC6-48-60-18-8C-EV			
	CCI DMP65R-BU8D			
	CCI TPA-65R-BU6DA-K			
151.0	Ericsson AIR 6419 B77G	2.398	1.880	

*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.

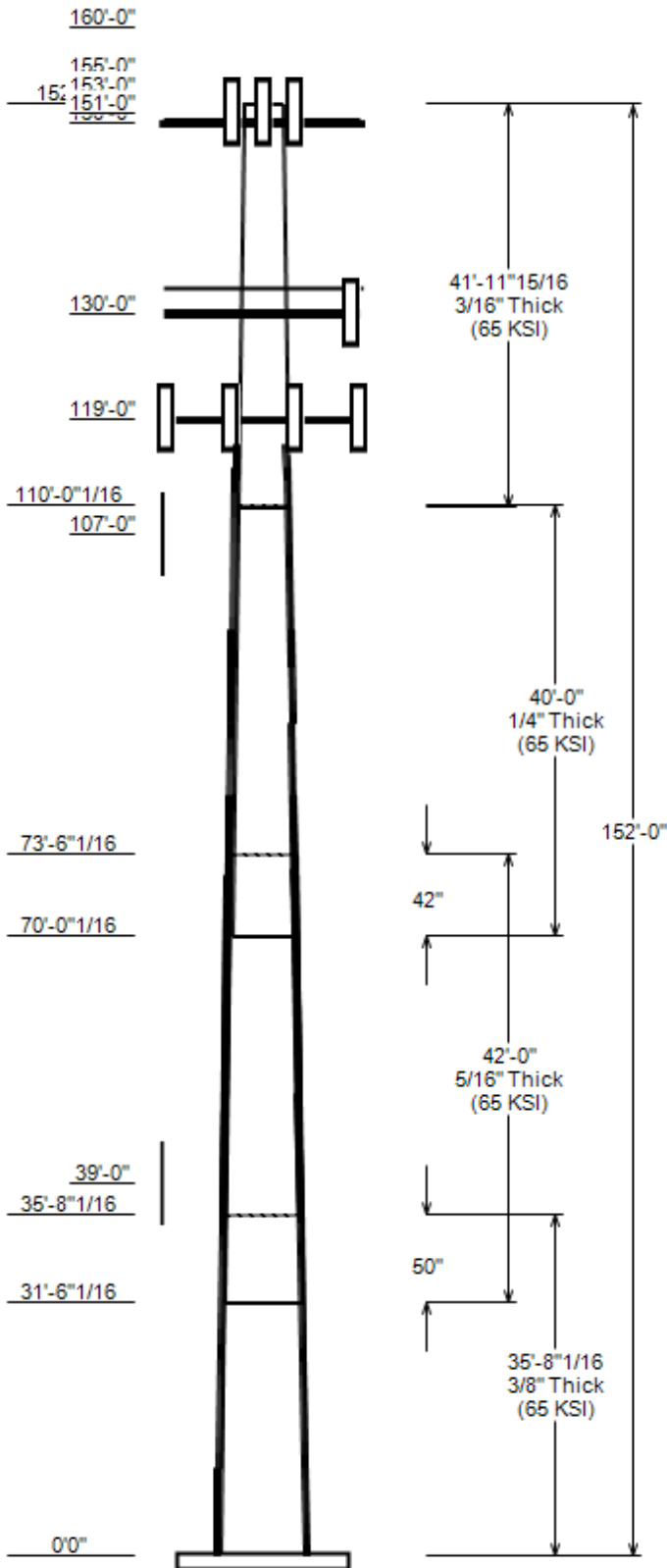
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively “American Tower”) are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with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

Asset : 302480, Woodbridge CT 1
 Client : AT&T MOBILITY
 Code : ANSI/TIA-222-H

Height : 152 ft
 Base Width : 37.38
 Shape : 12 Sides



SITE PARAMETERS

Nominal Wind: 115.99 mph wind with no ic **Topo Category:** 1
 Ice Wind: 48.73 mph wind with 0.850" **Topo Method:** Method 1
 Base Elev (ft): 0.00 **Taper :** 0.15500(ln/ft) **Topo Feature:**
Structure Class: II **Exposure :** B **S_s :** 0.2 **S₁ :** 0.054

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap Length (in)	Shape	Steel Grade (ksi)
		Across Flats Top	Across Flats Bottom					
1	35.670	31.86	37.38	0.375		0.000	12 Sides	65
2	42.000	26.64	33.13	0.313	Slip Joint	50.000	12 Sides	65
3	40.000	21.50	27.68	0.250	Slip Joint	42.000	12 Sides	65
4	41.997	15.00	21.50	0.188	Butt Joint	0.000	12 Sides	65

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
167.0	167.0	1	Generic 22' Omni
160.0	160.0	1	Generic 20' Dipole
155.0	155.0	3	Ericsson Air 6449 B77D
153.0	153.0	1	Raycap DC6-48-60-18-8F ("Squid
153.0	153.0	3	Ericsson RRUS 4426 B66
153.0	153.0	3	Ericsson RRUS 4449 B5, B12
153.0	153.0	3	Ericsson RRUS 4478 B14
153.0	153.0	3	Ericsson RRUS 32 B2
153.0	153.0	2	Raycap DC6-48-60-18-8C-EV
153.0	153.0	3	CCI TPA-65R-BU6DA-K
153.0	153.0	3	CCI DMP65R-BU8D
151.0	151.0	3	Ericsson AIR 6419 B77G
150.0	150.0	3	Generic Round Side Arm
150.0	150.0	1	Flat Platform w/ Handrails
130.0	130.0	3	Ericsson Radio 4449 B71 B85A
130.0	130.0	3	Ericsson 4460 BAND 2/25
130.0	130.0	3	Ericsson Air6449 B41
130.0	130.0	1	Generic Mount Reinforcement
130.0	130.0	3	RFS APXVAARR24_43-U-NA20
130.0	130.0	1	Generic Round Platform with Ha
119.0	119.0	6	ADC ClearGain Dual Band 800/19
119.0	119.0	3	Samsung B2/B66A RRH-BR049
119.0	119.0	3	Samsung B5/B13 RRH-BR04C
119.0	119.0	1	Raycap RCMDC-6627-PF-48
119.0	119.0	3	Antel BXA-80063/4CF
119.0	119.0	3	Samsung MT6407-77A
119.0	119.0	3	Generic Round T-Arm
119.0	119.0	6	JMA Wireless MX06FRO660-03
107.0	107.0	1	Generic GPS
39.0	39.0	1	Generic GPS

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	167.0	1 5/8" Coax	No
0.0	160.0	1 5/8" Coax	No
0.0	153.0	3/8" (0.38"- 9.5mm) RET Control Cable	No
0.0	153.0	2" conduit	No
0.0	153.0	1 5/8" Coax	No
0.0	153.0	0.92" (23.4mm) Cable	No
0.0	153.0	0.82" (20.8mm) 8 AWG 6	No
0.0	153.0	0.40" (10.3mm) Fiber	No

JOB INFORMATION

Asset : 302480, Woodbridge CT 1
 Client : AT&T MOBILITY
 Code : ANSI/TIA-222-H

Height : 152 ft
 Base Width : 37.38
 Shape : 12 Sides

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	130.0	1.99" (50.7mm) Hybrid	No
0.0	130.0	1 1/4" Hybriflex Cable	No
0.0	119.0	1 5/8" Hybriflex	No
0.0	119.0	1 5/8" Coax	No
88.5	118.5	W5 Bracket	Yes
88.5	118.5	W5 Bracket	Yes
88.5	118.5	W5 Bracket	Yes
88.5	118.5	W5 Bracket	Yes
88.5	118.5	#20 Bar	Yes
88.5	118.5	#20 Bar	Yes
88.5	118.5	#20 Bar	Yes
88.5	118.5	#20 Bar	Yes
111.0	118.0	1.25" Thick Flat Plate	Yes
111.0	118.0	1.25" Thick Flat Plate	Yes
111.0	118.0	1.25" Thick Flat Plate	Yes
0.0	107.0	1/2" Coax	No
0.0	101.5	#20 w/ Angle Brackets	Yes
0.0	101.5	#20 w/ Angle Brackets	Yes
0.0	101.5	#20 w/ Angle Brackets	Yes
0.0	101.5	#20 w/ Angle Brackets	Yes
33.0	81.0	1" Thick Flat Plate	Yes
33.0	81.0	1" Thick Flat Plate	Yes
33.0	81.0	1" Thick Flat Plate	Yes
33.0	81.0	1" Thick Flat Plate	Yes
33.0	73.0	1.25" Thick Flat Plate	Yes
33.0	73.0	1.25" Thick Flat Plate	Yes
33.0	73.0	1.25" Thick Flat Plate	Yes
48.3	68.3	1" Thick Flat Plate	No
48.3	68.3	1" Thick Flat Plate	No
48.3	68.3	1" Thick Flat Plate	No
48.3	68.3	1" Thick Flat Plate	No
0.0	39.0	1/2" Coax	No

LOAD CASES

1.2D + 1.0W Normal	115.99 mph wind with no ice
0.9D + 1.0W Normal	115.99 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Nor	48.73 mph wind with 0.850" radial
1.2D + 1.0Ev + 1.0Eh Nor	Seismic
0.9D - 1.0Ev + 1.0Eh Nor	Seismic (Reduced DL)
1.0D + 1.0W Service Norm	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W Normal	2703.38	25.51	54.79
0.9D + 1.0W Normal	2649.26	25.47	41.08
1.2D + 1.0Di + 1.0Wi Normal	602.65	5.12	66.76
1.2D + 1.0Ev + 1.0Eh Normal	174.51	1.38	55.11
0.9D - 1.0Ev + 1.0Eh Normal	169.92	1.38	38.02
1.0D + 1.0W Service Normal	639.70	6.10	45.71

DISH DEFLECTIONS

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
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ASSET: 302480, Woodbridge CT 1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
ENG NO: 13756843_C4_06

ANALYSIS PARAMETERS

Location:	New Haven County,CT	Height:	152 ft
Type and Shape:	Taper, 12 Sides	Base Diameter:	37.38 in
Manufacturer:	ITT Meyer	Top Diameter:	15.00 in
K_d (non-service):	0.95	Taper:	0.1550 in/ft
K_e:	0.99	Rotation:	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed w/o Ice:	116 mph
Risk Category:	II	Design Wind Speed w/Ice:	49 mph
Topo Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	0.85 in
Crest Height:	0 ft	HMSL:	322.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	2.99
T_L (sec):	6	P:	1
S_s:	0.200	S₁:	0.054
F_a:	1.600	F_v:	2.400
S_{ds}:	0.213	S_{dt}:	0.086
		C_s:	0.030
		C_s Max:	0.030
		C_s Min:	0.030

LOAD CASES

1.2D + 1.0W Normal	115.99 mph wind with no ice
0.9D + 1.0W Normal	115.99 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Normal	48.73 mph wind with 0.850" radial ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL)
1.0D + 1.0W Service Normal	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Weight (lb)	Bottom						Top							
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)	
1-12	35.67	0.3750	65		0.00	5,019	37.38	0.000	44.68	7,810.1	24.03	99.68	31.86	35.67	38.02	4,812.3	20.09	84.97	0.1546	
2-12	42.00	0.3130	65	Slip	50.00	4,260	33.13	31.500	33.08	4,548.4	25.69	105.86	26.64	73.50	26.53	2,347.3	20.13	85.11	0.1546	
3-12	40.00	0.2500	65	Slip	42.00	2,667	27.68	70.000	22.08	2,120.8	26.99	110.72	21.50	110.00	17.10	985.3	20.36	85.98	0.1546	
4-12	42.00	0.1880	65	Butt	0.00	1,562	21.50	3	12.90	747.4	27.96	114.34	15.00	152.00	8.97	251.1	18.70	79.79	0.1546	
Shaft Weight						13,508														

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
167.00	Generic 22' Omni	1	1.00	0.000	70.00	6.600	1.00	163.94	11.022	1.00
160.00	Generic 20' Dipole	1	1.00	0.000	60.00	7.520	1.00	185.78	14.262	1.00
155.00	Ericsson Air 6449 B77D	3	0.75	0.000	81.60	4.028	0.65	140.05	4.810	0.65
153.00	CCI DMP65R-BU8D	3	0.75	0.000	95.70	17.871	0.63	288.89	19.966	0.63
153.00	Raycap DC6-48-60-18-8C-EV	2	0.75	0.000	16.00	4.788	0.50	89.40	5.624	0.50
153.00	CCI TPA-65R-BU6DA-K	3	0.75	0.000	79.60	15.270	0.60	249.77	16.897	0.60
153.00	Ericsson RRUS 32 B2	3	0.75	0.000	53.00	2.743	0.50	94.81	3.408	0.50
153.00	Ericsson RRUS 4478 B14	3	0.75	0.000	59.40	2.021	0.50	94.28	2.557	0.50
153.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	107.63	2.499	0.50
153.00	Ericsson RRUS 4426 B66	3	0.75	0.000	48.40	1.650	0.50	73.77	2.133	0.50
153.00	Raycap DC6-48-60-18-8F ("Squid)	1	0.75	0.000	31.80	1.470	0.80	66.87	1.867	0.80
151.00	Ericsson AIR 6419 B77G	3	0.75	0.000	66.10	3.797	0.65	121.21	4.545	0.65
150.00	Generic Round Side Arm	3	1.00	0.000	187.50	5.200	0.67	239.33	6.740	0.67
150.00	Flat Platform w/ Handrails	1	1.00	0.000	2000.00	42.400	1.00	2805.63	54.289	1.00
130.00	Generic Mount Reinforcement	1	1.00	0.000	200.00	7.500	1.00	308.12	11.683	1.00
130.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	347.23	22.315	0.63
130.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	180.14	6.569	0.63
130.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	3404.90	40.856	1.00
130.00	Ericsson Radio 4449 B71 B85A	3	0.75	0.000	75.00	1.650	0.50	108.60	2.125	0.50
130.00	Ericsson 4460 BAND 2/25	3	0.75	0.000	109.00	2.564	0.50	158.38	3.153	0.50
119.00	JMA Wireless MX06FRO660-03	6	0.80	0.000	60.00	9.872	0.61	192.87	11.393	0.61
119.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	138.09	5.551	0.61
119.00	Generic Round T-Arm	3	0.75	0.000	312.50	9.700	0.67	457.28	14.269	0.67
119.00	ADC ClearGain Dual Band 800/19	6	0.80	0.000	28.70	1.328	0.50	50.06	1.753	0.50
119.00	Antel BXA-80063/4CF	3	0.80	0.000	9.90	4.708	0.65	65.48	5.728	0.65
119.00	Raycap RCMDC-6627-PF-48	1	0.80	0.000	32.00	4.056	0.80	102.43	4.812	0.80
119.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	102.00	2.375	0.50
119.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	119.75	2.375	0.50
107.00	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	26.05	1.251	1.00
39.00	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	24.46	1.216	1.00
Totals	Num Loadings: 30	77			10,628.70			17,984.63		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Flat	Coax/Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	167.00	2	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	Other
0.00	160.00	2	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	Other
0.00	153.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	153.00	4	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	153.00	3	0.40" (10.3mm) Fiber	0.4	0.09	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	153.00	2	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	153.00	2	0.82" (20.8mm) 8 AWG	0.82	0.62	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	153.00	1	3/8" (0.38"- 9.5mm) R	0.38	0.23	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	130.00	3	1 1/4" Hybriflex Cabl	1.54	1	N	0	0	0	0	0	N	T-MOBILE
0.00	130.00	1	1.99" (50.7mm) Hybrid	1.99	1.9	N	0	0	0	0	0	N	T-MOBILE
0.00	119.00	11	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIREL
0.00	119.00	2	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIREL
88.50	118.50	1	#20 Bar	4	0	N	1	0	0	135	0	Y	
88.50	118.50	1	#20 Bar	4	0	N	1	0	0	225	0	Y	

ASSET: 302480, Woodbridge CT 1
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 ENG NO: 13756843_C4_06

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
88.50	118.50	1	#20 Bar	4	0	N	1	0	0	315	0	Y	
88.50	118.50	1	W5 Bracket	1.55	5.7	Y	1	0	0	135	0	Y	
88.50	118.50	1	W5 Bracket	1.55	5.7	Y	1	0	0	315	0	Y	
88.50	118.50	1	W5 Bracket	1.55	5.7	Y	1	0	0	45	0	Y	
88.50	118.50	1	W5 Bracket	1.55	5.7	Y	1	0	0	225	0	Y	
88.50	118.50	1	#20 Bar	4	0	N	1	0	0	45	0	Y	
111.0	118.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	260	0	Y	
111.0	118.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	140	0	Y	
111.0	118.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	20	0	Y	
0.00	107.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	VERIZON WIREL
0.00	101.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	90	0	Y	
0.00	101.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	0	0	Y	
0.00	101.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	180	0	Y	
0.00	101.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	270	0	Y	
33.00	81.00	1	1" Thick Flat Plate	1	0	Y	1	0	0	285	0	Y	
33.00	81.00	1	1" Thick Flat Plate	1	0	Y	1	0	0	195	0	Y	
33.00	81.00	1	1" Thick Flat Plate	1	0	Y	1	0	0	105	0	Y	
33.00	81.00	1	1" Thick Flat Plate	1	0	Y	1	0	0	15	0	Y	
33.00	73.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	305	0	Y	
33.00	73.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	35	0	Y	
33.00	73.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	125	0	Y	
33.00	73.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	215	0	Y	
48.30	68.30	1	1" Thick Flat Plate	0	13.61	Y	0	0	0	195	0	N	
48.30	68.30	1	1" Thick Flat Plate	0	13.61	Y	0	0	0	105	0	N	
48.30	68.30	1	1" Thick Flat Plate	0	13.61	Y	0	0	0	285	0	N	
48.30	68.30	1	1" Thick Flat Plate	0	13.61	Y	0	0	0	15	0	N	
0.00	39.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	AT&T MOBILITY

ADDITIONAL STEEL

Intermediate Connectors

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	9.00	4	SOL #20 All Thread Bar	80	2.19	6" Angle Bracket	39.00		5/8" A36 U-Bolt	N
9.00	87.23	4	SOL #20 All Thread Bar	80	2.19	6" Angle Bracket	30.00	3.31	5/8" A36 U-Bolt	Y
34.75	71.25	4	PL PL 4" x 1"	57	0.00	AJAX M20 Class 8.8	24.00	3.00	AJAX M20 Class 8.8	N
35.25	48.25	4	PL PL 4" x 1"	39	0.00	5/8" Hollo Bolt	9.00	3.00	5/8" Hollo Bolt	N
48.25	68.13	4	PL PL 4" x 1"	40	0.00	5/8" Hollo Bolt	18.00	3.00	5/8" Hollo Bolt	N
68.13	71.88	4	PL PL 4" x 1"	40	1.00	5/8" Hollo Bolt	15.00	3.00	5/8" Hollo Bolt	N
71.88	79.63	4	PL PL 4" x 1"	40	0.00	5/8" Hollo Bolt	18.00	3.00	5/8" Hollo Bolt	N
87.23	96.94	4	SOL #20 All Thread Bar	80	2.19	6" Angle Bracket	30.00	3.31	5/8" A36 U-Bolt	Y
93.06	113.94	4	SOL #20 All Thread Bar	80	2.19	6" Angle Bracket	30.00	3.31	5/8" A36 U-Bolt	N
112.75	116.25	3	PL PL 4" x 1"	57	0.00	AJAX M20 Class 8.8	24.00	3.00	AJAX M20 Class 8.8	N

SEGMENT PROPERTIES

(Max Len: 5.ft)

Additional Reinforcing

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.3750	37.380	44.684	7,810.10	24.03	99.68	78.5	403.6	0.0	0.0	19.640	4,958.90	0.0
5.00		0.3750	36.607	43.750	7,330.70	23.48	97.62	79.1	386.9	0.0	752.3	19.640	4,784.00	334.0
9.00	Reinf. Top Reinf Bottom	0.3750	35.988	43.003	6,961.60	23.04	95.97	79.6	373.7	0.0	590.4	19.640	4,646.30	267.2
10.00		0.3750	35.834	42.816	6,871.30	22.92	95.56	79.7	370.4	0.0	146.0	19.640	4,612.20	66.8
15.00		0.3750	35.060	41.883	6,431.50	22.37	93.49	80.3	354.4	0.0	720.5	19.640	4,443.50	334.0
20.00		0.3750	34.287	40.949	6,010.90	21.82	91.43	80.9	338.7	0.0	704.6	19.640	4,278.00	334.0
25.00		0.3750	33.514	40.015	5,609.10	21.27	89.37	81.5	323.3	0.0	688.8	19.640	4,115.70	334.0
30.00		0.3750	32.741	39.082	5,225.60	20.71	87.31	81.9	308.3	0.0	672.9	19.640	3,956.50	334.0
31.50	Bot - Section 2	0.3750	32.508	38.801	5,113.80	20.55	86.69	81.9	303.9	0.0	199.2	19.640	3,909.20	100.4
34.75	Reinf Bottom	0.3750	32.006	38.195	4,877.80	20.19	85.35	81.9	294.4	0.0	788.0	19.640	3,934.40	216.9
35.00		0.3750	31.968	38.148	4,859.90	20.16	85.25	81.9	293.7	0.0	60.2	35.640	6,194.90	30.3
35.25	Reinf Bottom	0.3750	31.929	38.101	4,842.10	20.13	85.14	81.9	293.0	0.0	60.1	35.640	6,181.90	30.3
35.67	Top - Section 1	0.3130	32.490	32.430	4,285.70	25.13	103.80	77.3	254.8	0.0	100.8	51.640	8,414.50	73.8
39.00		0.3130	31.975	31.911	4,083.20	24.69	102.16	77.8	246.7	0.0	364.5	51.640	8,174.00	585.0
40.00		0.3130	31.820	31.755	4,023.70	24.56	101.66	77.9	244.3	0.0	108.3	51.640	8,102.50	175.7
45.00		0.3130	31.047	30.976	3,734.70	23.90	99.19	78.6	232.4	0.0	533.6	51.640	7,749.50	878.4
48.25	Reinf. Top Reinf Bottom	0.3130	30.545	30.469	3,554.40	23.47	97.59	79.1	224.8	0.0	339.8	51.640	7,524.40	571.0
50.00		0.3130	30.274	30.196	3,459.80	23.24	96.72	79.4	220.8	0.0	180.6	48.106	6,888.90	307.5
55.00		0.3130	29.501	29.417	3,198.80	22.58	94.25	80.1	209.5	0.0	507.1	48.106	6,577.80	878.4
60.00		0.3130	28.728	28.638	2,951.30	21.91	91.78	80.8	198.5	0.0	493.9	48.106	6,274.00	878.4
65.00		0.3130	27.954	27.859	2,716.90	21.25	89.31	81.5	187.8	0.0	480.6	48.106	5,977.40	878.4
68.13	Reinf. Top Reinf Bottom	0.3130	27.470	27.371	2,576.60	20.84	87.76	81.9	181.2	0.0	294.1	48.106	5,795.50	549.9
70.00		0.3130	27.181	27.079	2,495.20	20.59	86.84	81.9	177.3	0.0	173.2	51.640	6,337.30	328.5
70.00	Bot - Section 3	0.3130	27.181	27.079	2,495.00	20.59	86.84	81.9	177.3	0.0	0.3	51.640	6,337.00	0.6
71.25	Reinf. Top	0.3130	26.988	26.885	2,441.70	20.42	86.22	81.9	174.8	0.0	207.8	51.640	6,463.00	219.0
71.88	Reinf. Top Reinf Bottom	0.3130	26.890	26.786	2,415.10	20.34	85.91	81.9	173.5	0.0	104.4	35.640	4,799.60	76.4
73.50	Top - Section 2	0.2500	27.139	21.646	1,997.70	26.41	108.56	75.9	142.2	0.0	267.4	35.640	4,492.10	196.8
75.00		0.2500	26.908	21.460	1,946.50	26.16	107.63	76.2	139.8	0.0	109.8	35.640	4,426.00	181.5
79.63	Reinf. Top	0.2500	26.192	20.883	1,793.90	25.39	104.77	77	132.3	0.0	333.6	35.640	4,224.40	561.4
80.00		0.2500	26.135	20.837	1,782.00	25.33	104.54	77.1	131.7	0.0	26.3	19.640	2,724.60	24.7
85.00		0.2500	25.362	20.215	1,627.10	24.50	101.45	78	123.9	0.0	349.2	19.640	2,595.40	334.0
87.23	Reinf. Top Reinf Bottom	0.2500	25.017	19.937	1,561.00	24.13	100.07	78.4	120.5	0.0	152.3	19.640	2,538.80	149.0
90.00		0.2500	24.588	19.592	1,481.40	23.67	98.35	78.9	116.4	0.0	186.3	19.640	2,469.40	185.0
93.06	Reinf Bottom	0.2500	24.115	19.211	1,396.60	23.17	96.46	79.4	111.9	0.0	202.0	19.640	2,393.80	204.4
95.00		0.2500	23.815	18.970	1,344.60	22.85	95.26	79.8	109.1	0.0	126.0	39.280	4,693.00	259.2
96.94	Reinf. Top	0.2500	23.515	18.728	1,293.90	22.52	94.06	80.1	106.3	0.0	124.4	39.280	4,599.30	259.2
100.00		0.2500	23.042	18.348	1,216.50	22.02	92.17	80.7	102.0	0.0	193.0	19.640	2,226.80	204.4
105.00		0.2500	22.269	17.725	1,096.90	21.19	89.08	81.6	95.2	0.0	306.9	19.640	2,110.20	334.0
107.00		0.2500	21.960	17.476	1,051.30	20.86	87.84	81.9	92.5	0.0	119.8	19.640	2,064.40	133.6
110.00	Top - Section 3	0.2500	21.495	17.102	985.30	20.36	85.98	81.9	88.6	0.0	0.2	19.640	1,996.60	0.2
110.00		0.2500	21.496	17.103	985.30	20.36	85.98	81.9	88.6	0.0	176.5	19.640	1,996.70	200.4
110.00	Bot - Section 4	0.1880	21.495	12.898	747.40	27.96	114.34	74.2	67.2	0.0		19.640	1,996.60	
112.75	Reinf Bottom	0.1880	21.070	12.641	703.60	27.35	112.08	74.9	64.5	0.0	119.4	39.280	3,871.30	367.0
113.94	Reinf. Top	0.1880	20.886	12.530	685.20	27.09	111.10	75.2	63.4	0.0	51.0	31.640	2,662.70	232.1
115.00		0.1880	20.722	12.431	669.00	26.86	110.23	75.4	62.4	0.0	45.0	12.000	716.30	43.3
116.25	Reinf. Top	0.1880	20.529	12.314	650.30	26.58	109.20	75.7	61.2	0.0	52.6	12.000	703.80	51.0
119.00		0.1880	20.104	12.056	610.40	25.97	106.94	76.4	58.7	0.0	114.0			
120.00		0.1880	19.949	11.963	596.30	25.75	106.11	76.6	57.7	0.0	40.9			
125.00		0.1880	19.176	11.495	529.00	24.65	102.00	77.8	53.3	0.0	199.5			
130.00		0.1880	18.403	11.027	467.00	23.55	97.89	79	49.0	0.0	191.6			
135.00		0.1880	17.630	10.558	410.00	22.45	93.77	80.2	44.9	0.0	183.6			
140.00		0.1880	16.856	10.090	357.80	21.35	89.66	81.4	41.0	0.0	175.7			
145.00		0.1880	16.083	9.622	310.30	20.24	85.55	81.9	37.3	0.0	167.7			
150.00		0.1880	15.310	9.154	267.20	19.14	81.44	81.9	33.7	0.0	159.7			
151.00		0.1880	15.155	9.061	259.10	18.92	80.61	81.9	33.0	0.0	31.0			
152.00		0.1880	15.001	8.967	251.10	18.70	79.79	81.9	32.3	0.0	30.7			

Totals: 13,508.1 12,704.1

ASSET: 302480, Woodbridge CT 1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
ENG NO: 13756843_C4_06

151.00	-1.09	-3.38	0.00	-12.9	0.00	12.91	667.86	159.01	224.58	202.86	118.59	-7.76	0.066
152.00	0.00	-3.21	0.00	-9.5	0.00	9.53	660.96	157.37	219.96	198.66	120.21	-7.77	0.048

ASSET: 302480, Woodbridge CT 1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
ENG NO: 13756843_C4_06

151.00	-3.61	-0.83	0.00	-3.5	0.00	3.46	667.86	159.01	224.58	202.86	28.38	-1.89	0.022
152.00	0.00	-0.72	0.00	-2.6	0.00	2.62	660.96	157.37	219.96	198.66	28.77	-1.9	0.013

ASSET: 302480, Woodbridge CT 1
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
ENG NO: 13756843_C4_06

151.00	-1.69	-0.82	0.00	-3.1	0.00	3.10	667.86	159.01	224.58	202.86	28.77	-1.88	0.018
152.00	0.00	-0.77	0.00	-2.3	0.00	2.28	660.96	157.37	219.96	198.66	29.16	-1.89	0.012

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period (S_S):	0.200
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.054
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_a):	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}):	0.213
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 (ρ):	1.000
Seismic Force Distribution Exponent (k):	2.000
Total Unfactored Dead Load:	45.720 k
Seismic Base Shear (E):	1.370 k

1.2D + 1.0Ev + 1.0Eh Normal Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
54	151.5	51	1,181	0.003	4	64
53	150.5	52	1,173	0.003	4	64
52	147.5	264	5,738	0.016	21	328
51	142.5	272	5,517	0.015	21	338
50	137.5	280	5,287	0.014	20	348
49	132.5	288	5,050	0.014	19	357
48	127.5	320	5,203	0.014	19	398
47	122.5	328	4,923	0.013	18	408
46	119.5	67	951	0.003	4	83
45	117.625	268	3,707	0.010	14	333
44	115.625	179	2,391	0.006	9	222
43	114.47	152	1,992	0.005	7	189
42	113.345	355	4,555	0.012	17	441
41	111.3767	651	8,081	0.022	30	810
40	110.0017	1	7	0.000	0	1
39	108.5	557	6,560	0.018	24	692
38	106	374	4,201	0.011	16	465
37	102.5	970	10,194	0.028	38	1,206
36	98.47	639	6,197	0.017	23	794
35	95.97	537	4,945	0.013	18	667
34	94.03	538	4,761	0.013	18	669
33	91.53	648	5,430	0.015	20	805
32	88.615	561	4,407	0.012	16	697
31	86.115	427	3,164	0.009	12	530
30	82.5	964	6,562	0.018	24	1,198
29	79.815	72	457	0.001	2	89
28	77.315	1,155	6,905	0.019	26	1,435
27	74.2517	375	2,069	0.006	8	466
26	72.6917	555	2,935	0.008	11	690
25	71.565	216	1,107	0.003	4	269
24	70.6267	497	2,478	0.007	9	617
23	70.0017	1	5	0.000	0	1
22	69.065	616	2,939	0.008	11	766
21	66.565	1,190	5,274	0.014	20	1,479

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
20	62.5	1,912	7,470	0.020	28	2,376
19	57.5	1,925	6,366	0.017	24	2,393
18	52.5	1,939	5,344	0.014	20	2,409
17	49.125	679	1,639	0.004	6	844
16	46.625	1,093	2,377	0.006	9	1,359
15	42.5	1,693	3,058	0.008	11	2,104
14	39.5	340	531	0.001	2	423
13	37.335	1,137	1,585	0.004	6	1,413
12	35.46	198	249	0.001	1	246
11	35.125	104	129	0.000	0	130
10	34.875	105	127	0.000	0	130
9	33.1267	1,188	1,303	0.004	5	1,476
8	30.7517	384	363	0.001	1	478
7	27.5	1,289	974	0.003	4	1,601
6	22.5	1,304	660	0.002	2	1,621
5	17.5	1,320	404	0.001	2	1,641
4	12.5	1,336	209	0.001	1	1,660
3	9.5	269	24	0.000	0	334
2	7	1,083	53	0.000	0	1,346
1	2.5	1,368	9	0.000	0	1,700
Generic 22' Omni	152	70	1,617	0.004	6	87
Generic 20' Dipole	152	60	1,386	0.004	5	75
Ericsson Air 6449 B77D	152	245	5,656	0.015	21	304
Raycap DC6-48-60-18-8F ("Squid")	152	32	735	0.002	3	40
Ericsson RRUS 4426 B66	152	145	3,355	0.009	12	180
Ericsson RRUS 4449 B5, B12	152	213	4,921	0.013	18	265
Ericsson RRUS 4478 B14	152	178	4,117	0.011	15	221
Ericsson RRUS 32 B2	152	159	3,674	0.010	14	198
Raycap DC6-48-60-18-8C-EV	152	32	739	0.002	3	40
CCI TPA-65R-BU6DA-K	152	239	5,517	0.015	21	297
CCI DMP65R-BU8D	152	287	6,633	0.018	25	357
Ericsson AIR 6419 B77G	151	198	4,521	0.012	17	246
Generic Round Side Arm	150	562	12,656	0.034	47	699
Flat Platform w/ Handrails	150	2,000	45,000	0.122	168	2,485
Ericsson Radio 4449 B71 B85A	130	225	3,802	0.010	14	280
Ericsson 4460 BAND 2/25	130	327	5,526	0.015	21	406
Ericsson Air6449 B41	130	312	5,273	0.014	20	388
Generic Mount Reinforcement	130	200	3,380	0.009	13	249
RFS APXVAARR24_43-U-NA20	130	384	6,485	0.018	24	477
Generic Round Platform with Handrails	130	2,500	42,250	0.115	157	3,107
ADC ClearGain Dual Band 800/1900 MHz	119	172	2,439	0.007	9	214
Samsung B2/B66A RRH-BR049	119	253	3,586	0.010	13	315
Samsung B5/B13 RRH-BR04C	119	211	2,987	0.008	11	262
Raycap RCMDC-6627-PF-48	119	32	453	0.001	2	40
Antel BXA-80063/4CF	119	30	421	0.001	2	37
Samsung MT6407-77A	119	245	3,467	0.009	13	304
Generic Round T-Arm	119	938	13,276	0.036	49	1,165
JMA Wireless MX06FRO660-03	119	360	5,098	0.014	19	447
Generic GPS	107	10	114	0.000	0	12
Generic GPS	39	10	15	0.000	0	12
		45,717	368,321	1.000	1,372	56,811

0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
54	151.5	51	1,181	0.003	4	44
53	150.5	52	1,173	0.003	4	44
52	147.5	264	5,738	0.016	21	226
51	142.5	272	5,517	0.015	21	233
50	137.5	280	5,287	0.014	20	240
49	132.5	288	5,050	0.014	19	247
48	127.5	320	5,203	0.014	19	274

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
47	122.5	328	4,923	0.013	18	281
46	119.5	67	951	0.003	4	57
45	117.625	268	3,707	0.010	14	230
44	115.625	179	2,391	0.006	9	153
43	114.47	152	1,992	0.005	7	130
42	113.345	355	4,555	0.012	17	304
41	111.3767	651	8,081	0.022	30	558
40	110.0017	1	7	0.000	0	1
39	108.5	557	6,560	0.018	24	478
38	106	374	4,201	0.011	16	321
37	102.5	970	10,194	0.028	38	832
36	98.47	639	6,197	0.017	23	548
35	95.97	537	4,945	0.013	18	460
34	94.03	538	4,761	0.013	18	462
33	91.53	648	5,430	0.015	20	556
32	88.615	561	4,407	0.012	16	481
31	86.115	427	3,164	0.009	12	366
30	82.5	964	6,562	0.018	24	827
29	79.815	72	457	0.001	2	62
28	77.315	1,155	6,905	0.019	26	990
27	74.2517	375	2,069	0.006	8	322
26	72.6917	555	2,935	0.008	11	476
25	71.565	216	1,107	0.003	4	185
24	70.6267	497	2,478	0.007	9	426
23	70.0017	1	5	0.000	0	1
22	69.065	616	2,939	0.008	11	528
21	66.565	1,190	5,274	0.014	20	1,020
20	62.5	1,912	7,470	0.020	28	1,639
19	57.5	1,925	6,366	0.017	24	1,651
18	52.5	1,939	5,344	0.014	20	1,662
17	49.125	679	1,639	0.004	6	582
16	46.625	1,093	2,377	0.006	9	937
15	42.5	1,693	3,058	0.008	11	1,451
14	39.5	340	531	0.001	2	292
13	37.335	1,137	1,585	0.004	6	975
12	35.46	198	249	0.001	1	170
11	35.125	104	129	0.000	0	90
10	34.875	105	127	0.000	0	90
9	33.1267	1,188	1,303	0.004	5	1,018
8	30.7517	384	363	0.001	1	329
7	27.5	1,289	974	0.003	4	1,105
6	22.5	1,304	660	0.002	2	1,118
5	17.5	1,320	404	0.001	2	1,132
4	12.5	1,336	209	0.001	1	1,146
3	9.5	269	24	0.000	0	231
2	7	1,083	53	0.000	0	928
1	2.5	1,368	9	0.000	0	1,173
Generic 22' Omni	152	70	1,617	0.004	6	60
Generic 20' Dipole	152	60	1,386	0.004	5	51
Ericsson Air 6449 B77D	152	245	5,656	0.015	21	210
Raycap DC6-48-60-18-8F ("Squid")	152	32	735	0.002	3	27
Ericsson RRUS 4426 B66	152	145	3,355	0.009	12	124
Ericsson RRUS 4449 B5, B12	152	213	4,921	0.013	18	183
Ericsson RRUS 4478 B14	152	178	4,117	0.011	15	153
Ericsson RRUS 32 B2	152	159	3,674	0.010	14	136
Raycap DC6-48-60-18-8C-EV	152	32	739	0.002	3	27
CCI TPA-65R-BU6DA-K	152	239	5,517	0.015	21	205
CCI DMP65R-BU8D	152	287	6,633	0.018	25	246
Ericsson AIR 6419 B77G	151	198	4,521	0.012	17	170
Generic Round Side Arm	150	562	12,656	0.034	47	482
Flat Platform w/ Handrails	150	2,000	45,000	0.122	168	1,715
Ericsson Radio 4449 B71 B85A	130	225	3,802	0.010	14	193
Ericsson 4460 BAND 2/25	130	327	5,526	0.015	21	280
Ericsson Air6449 B41	130	312	5,273	0.014	20	267
Generic Mount Reinforcement	130	200	3,380	0.009	13	171
RFS APXVAARR24_43-U-NA20	130	384	6,485	0.018	24	329
Generic Round Platform with Handrails	130	2,500	42,250	0.115	157	2,143
ADC ClearGain Dual Band 800/1900 MHz	119	172	2,439	0.007	9	148
Samsung B2/B66A RRH-BR049	119	253	3,586	0.010	13	217
Samsung B5/B13 RRH-BR04C	119	211	2,987	0.008	11	181

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
Raycap RCMD-6627-PF-48	119	32	453	0.001	2	27
Antel BXA-80063/4CF	119	30	421	0.001	2	25
Samsung MT6407-77A	119	245	3,467	0.009	13	210
Generic Round T-Arm	119	938	13,276	0.036	49	804
JMA Wireless MX06FRO660-03	119	360	5,098	0.014	19	309
Generic GPS	107	10	114	0.000	0	9
Generic GPS	39	10	15	0.000	0	9
		45,717	368,321	1.000	1,372	39,195

1.2D + 1.0Ev + 1.0Eh Normal 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	-55.11	-1.38	0.00	-174.51	0.00	174.51	3,157.17	784.20	2,738	2,376.61	0.00	0.00	0.06
5.00	-53.76	-1.40	0.00	-167.61	0.00	167.61	3,114.92	767.81	2,625	2,295.32	0.01	-0.02	0.06
9.00	-53.43	-1.40	0.00	-162.03	0.00	162.03	3,080.40	754.70	2,536	2,230.74	0.03	-0.03	0.06
9.00	-53.43	-1.40	0.00	-162.03	0.00	162.03	3,080.40	754.70	2,536	2,230.74	0.03	-0.03	0.06
10.00	-51.77	-1.41	0.00	-160.63	0.00	160.63	3,071.67	751.43	2,514	2,214.65	0.04	-0.04	0.06
15.00	-50.13	-1.43	0.00	-153.56	0.00	153.56	3,027.40	735.04	2,405	2,134.64	0.09	-0.06	0.05
20.00	-48.51	-1.44	0.00	-146.42	0.00	146.42	2,982.12	718.65	2,299	2,055.34	0.16	-0.08	0.05
25.00	-46.90	-1.45	0.00	-139.22	0.00	139.22	2,935.83	702.27	2,196	1,976.80	0.25	-0.10	0.05
30.00	-46.43	-1.46	0.00	-131.97	0.00	131.97	2,880.71	685.88	2,095	1,893.92	0.37	-0.12	0.05
31.50	-44.95	-1.46	0.00	-129.78	0.00	129.78	2,860.02	680.96	2,065	1,866.66	0.40	-0.12	0.05
34.75	-44.82	-1.46	0.00	-125.05	0.00	125.05	2,815.33	670.32	2,001	1,808.45	0.49	-0.14	0.05
35.00	-44.69	-1.46	0.00	-124.68	0.00	124.68	2,811.89	669.50	1,996	1,804.01	0.50	-0.14	0.04
35.25	-44.44	-1.46	0.00	-124.32	0.00	124.32	2,808.45	668.68	1,991	1,799.57	0.51	-0.14	0.04
35.67	-43.03	-1.46	0.00	-123.70	0.00	123.70	2,256.21	569.14	1,728	1,477.41	0.52	-0.14	0.04
39.00	-42.60	-1.46	0.00	-118.86	0.00	118.86	2,233.91	560.04	1,673	1,439.17	0.62	-0.15	0.04
40.00	-40.49	-1.45	0.00	-117.40	0.00	117.40	2,227.13	557.30	1,657	1,427.72	0.65	-0.15	0.03
45.00	-39.13	-1.44	0.00	-110.17	0.00	110.17	2,192.60	543.62	1,576	1,370.75	0.82	-0.16	0.03
48.25	-38.29	-1.44	0.00	-105.48	0.00	105.48	2,169.61	534.74	1,525	1,333.98	0.93	-0.17	0.03
48.25	-38.29	-1.44	0.00	-105.48	0.00	105.48	2,169.61	534.74	1,525	1,333.98	0.93	-0.17	0.03
50.00	-35.88	-1.42	0.00	-102.97	0.00	102.97	2,157.06	529.95	1,498	1,314.27	1.00	-0.18	0.03
55.00	-33.49	-1.39	0.00	-95.89	0.00	95.89	2,120.51	516.27	1,422	1,258.31	1.19	-0.19	0.03
60.00	-31.11	-1.36	0.00	-88.93	0.00	88.93	2,082.94	502.60	1,347	1,202.93	1.40	-0.20	0.03
65.00	-29.63	-1.34	0.00	-82.12	0.00	82.12	2,044.36	488.92	1,275	1,148.17	1.62	-0.22	0.03
68.13	-28.87	-1.33	0.00	-77.91	0.00	77.91	2,017.50	480.36	1,231	1,113.02	1.76	-0.23	0.03
68.13	-28.87	-1.33	0.00	-77.91	0.00	77.91	2,017.50	480.36	1,231	1,113.02	1.76	-0.23	0.03
70.00	-28.86	-1.33	0.00	-75.42	0.00	75.42	1,996.02	475.24	1,205	1,089.31	1.85	-0.23	0.03
70.00	-28.25	-1.32	0.00	-75.42	0.00	75.42	1,995.98	475.23	1,205	1,089.27	1.85	-0.23	0.02
71.25	-27.98	-1.32	0.00	-73.77	0.00	73.77	1,981.66	471.82	1,188	1,073.60	1.91	-0.23	0.02
71.25	-27.98	-1.32	0.00	-73.77	0.00	73.77	1,981.66	471.82	1,188	1,073.60	1.91	-0.23	0.03
71.88	-27.29	-1.31	0.00	-72.93	0.00	72.93	1,974.42	470.10	1,179	1,065.73	1.95	-0.24	0.03
71.88	-27.29	-1.31	0.00	-72.93	0.00	72.93	1,974.42	470.10	1,179	1,065.73	1.95	-0.24	0.03
73.50	-26.82	-1.30	0.00	-70.81	0.00	70.81	1,478.88	379.89	964	809.61	2.03	-0.24	0.03
75.00	-25.39	-1.27	0.00	-68.87	0.00	68.87	1,471.38	376.62	947	798.50	2.10	-0.24	0.03
79.63	-25.30	-1.27	0.00	-62.98	0.00	62.98	1,447.59	366.50	897	764.30	2.35	-0.26	0.03
79.63	-25.30	-1.27	0.00	-62.98	0.00	62.98	1,447.59	366.50	897	764.30	2.35	-0.26	0.04
80.00	-24.10	-1.25	0.00	-62.51	0.00	62.51	1,445.65	365.69	893	761.57	2.37	-0.26	0.04
85.00	-23.57	-1.24	0.00	-56.28	0.00	56.28	1,418.91	354.77	840	724.95	2.65	-0.28	0.04
87.23	-22.87	-1.22	0.00	-53.51	0.00	53.51	1,406.66	349.90	818	708.72	2.78	-0.29	0.04
87.23	-22.87	-1.22	0.00	-53.51	0.00	53.51	1,406.66	349.90	818	708.72	2.78	-0.29	0.04
90.00	-22.06	-1.20	0.00	-50.13	0.00	50.13	1,391.16	343.85	790	688.67	2.95	-0.30	0.04
93.06	-21.40	-1.18	0.00	-46.45	0.00	46.45	1,373.68	337.16	759	666.66	3.14	-0.31	0.03
95.00	-20.73	-1.16	0.00	-44.16	0.00	44.16	1,362.39	332.92	740	652.78	3.27	-0.31	0.02
96.94	-19.93	-1.14	0.00	-41.90	0.00	41.90	1,350.96	328.68	721	638.98	3.40	-0.32	0.02
96.94	-19.93	-1.14	0.00	-41.90	0.00	41.90	1,350.96	328.68	721	638.98	3.40	-0.32	0.03
100.00	-18.73	-1.10	0.00	-38.42	0.00	38.42	1,332.62	322.00	692	617.35	3.60	-0.32	0.03
105.00	-18.26	-1.08	0.00	-32.93	0.00	32.93	1,301.83	311.08	646	582.40	3.95	-0.34	0.03
107.00	-17.56	-1.05	0.00	-30.77	0.00	30.77	1,288.17	306.71	628	568.10	4.09	-0.34	0.03
110.00	-17.56	-1.06	0.00	-27.61	0.00	27.61	1,260.64	300.15	602	543.95	4.31	-0.35	0.02
110.00	-16.75	-1.02	0.00	-27.60	0.00	27.60	1,260.61	300.15	602	543.92	4.31	-0.35	0.02
110.00	-16.75	-1.02	0.00	-27.60	0.00	27.60	861.64	226.37	455	373.95	4.31	-0.35	0.03

ASSET: 302480, Woodbridge CT 1
 CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
 ENG NO: 13756843_C4_06

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
107.00	-12.11	-1.02	0.00	-29.65	0.00	29.65	1,288.17	306.71	628	568.10	3.97	-0.33	0.02
110.00	-12.11	-1.02	0.00	-26.59	0.00	26.59	1,260.64	300.15	602	543.95	4.18	-0.34	0.02
110.00	-11.55	-0.99	0.00	-26.59	0.00	26.59	1,260.61	300.15	602	543.92	4.18	-0.34	0.02
110.00	-11.55	-0.99	0.00	-26.59	0.00	26.59	861.64	226.37	455	373.95	4.18	-0.34	0.03
112.75	-11.25	-0.97	0.00	-23.88	0.00	23.88	851.97	221.86	437	362.32	4.38	-0.35	0.01
113.94	-11.12	-0.96	0.00	-22.72	0.00	22.72	847.69	219.90	429	357.29	4.46	-0.35	0.02
113.94	-11.12	-0.96	0.00	-22.72	0.00	22.72	847.69	219.90	429	357.29	4.46	-0.35	0.04
115.00	-10.97	-0.95	0.00	-21.71	0.00	21.71	843.83	218.16	423	352.82	4.54	-0.35	0.04
116.25	-10.74	-0.94	0.00	-20.52	0.00	20.52	839.21	216.11	415	347.56	4.63	-0.36	0.04
116.25	-10.74	-0.94	0.00	-20.52	0.00	20.52	839.21	216.11	415	347.56	4.63	-0.36	0.07
119.00	-8.76	-0.81	0.00	-17.94	0.00	17.94	828.84	211.59	398	336.02	4.84	-0.37	0.06
120.00	-8.48	-0.79	0.00	-17.13	0.00	17.13	824.99	209.94	391	331.84	4.92	-0.38	0.06
125.00	-8.20	-0.77	0.00	-13.18	0.00	13.18	805.15	201.73	361	311.07	5.33	-0.41	0.05
130.00	-4.57	-0.48	0.00	-9.32	0.00	9.32	784.29	193.52	333	290.55	5.78	-0.44	0.04
135.00	-4.33	-0.46	0.00	-6.92	0.00	6.92	762.42	185.30	305	270.33	6.26	-0.47	0.03
140.00	-4.10	-0.44	0.00	-4.62	0.00	4.62	739.54	177.09	278	250.47	6.76	-0.49	0.02
145.00	-3.88	-0.42	0.00	-2.42	0.00	2.42	709.26	168.87	253	228.95	7.27	-0.50	0.02
150.00	-1.64	-0.18	0.00	-0.33	0.00	0.33	674.76	160.66	229	207.10	7.80	-0.51	0.00
151.00	-1.42	-0.16	0.00	-0.16	0.00	0.16	667.86	159.01	225	202.86	7.91	-0.51	0.00
152.00	0.00	-0.14	0.00	0.00	0.00	0.00	660.96	157.37	220	198.66	8.02	-0.51	0.00

ANALYSIS SUMMARY

Load Case	Reactions						Max Usage	
	Shear FX	Shear FZ	Axial FY	Moment MX	Moment MY	Moment MZ	Elev (ft)	Interaction Ratio
	(kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)		
1.2D + 1.0W Normal	25.51	0.00	54.79	0.00	0.00	2703.38	116.25	0.93
0.9D + 1.0W Normal	25.47	0.00	41.08	0.00	0.00	2649.26	116.25	0.9
1.2D + 1.0Di + 1.0Wi Normal	5.12	0.00	66.76	0.00	0.00	602.65	116.25	0.25
1.2D + 1.0Ev + 1.0Eh Normal	1.46	0.00	55.11	0.00	0.00	174.51	116.25	0.08
0.9D - 1.0Ev + 1.0Eh Normal	1.43	0.00	38.02	0.00	0.00	169.92	116.25	0.07
1.0D + 1.0W Service Normal	6.10	0.00	45.71	0.00	0.00	639.70	116.25	0.23

ADDITIONAL STEEL SUMMARY

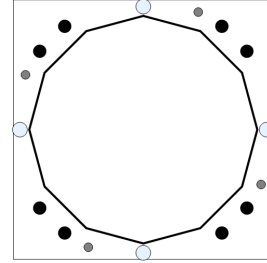
Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors				Max member			
			VQ/I	Shear Applied (kips)	Shear (phiVn) (kips)	Ratio	Pu (kip)	PhiPn (kip)	Ratio	
0.00	9.00	SOL #20 All Thread Bar	230.1	9.0	16.8	0.5339	284.3	315.5	0.9011	
9.00	87.23	SOL #20 All Thread Bar	332.1	10.0	16.8	0.5927	277.1	330.5	0.8384	
34.75	71.25	PL PL 4" x 1"	141.7	3.4	38.3	0.0888	137.0	178.3	0.7685	
35.25	48.25	PL PL 4" x 1"	124.6	1.1	25.3	0.0444	115.0	137.1	0.8391	
48.25	68.13	PL PL 4" x 1"	132.9	2.4	25.3	0.0947	112.6	137.0	0.8215	
68.13	71.88	PL PL 4" x 1"	161.0	2.4	25.3	0.0956	109.0	137.1	0.7953	
71.88	79.63	PL PL 4" x 1"	164.4	3.0	25.3	0.1171	106.4	137.0	0.7763	
87.23	96.94	SOL #20 All Thread Bar	335.9	10.1	16.8	0.5995	181.1	330.5	0.5481	
93.06	113.94	SOL #20 All Thread Bar	348.0	10.4	16.8	0.621	155.1	330.5	0.4694	
112.75	116.25	PL PL 4" x 1"	452.5	10.9	38.3	0.2838	132.1	178.3	0.7411	

Elev From (ft)	Elev To (ft)	Member	Upper Termination Connectors				Lower Termination Connectors					
			MQ/I	phiVn (kips)	Num Reqd	Num Actual	Ratio	MQ/I (kips)	phiVn (kip)	Num Reqd	Num Actual	Ratio
0.00	9.00	SOL #20 All Thread Bar	0	12	0	0	0.0000	0	12	0	0	0.0000
9.00	87.23	SOL #20 All Thread Bar	0	12	0	14	0.0000	0	12	0	0	0.0000
34.75	71.25	PL PL 4" x 1"	81.909	38.27	3	6	0.3567	134.6838	38.27	4	6	0.5866
35.25	48.25	PL PL 4" x 1"	0	25.27	0	6	0.0000	0	25.27	0	9	0.0000
48.25	68.13	PL PL 4" x 1"	0	25.27	0	6	0.0000	0	25.27	0	6	0.0000
68.13	71.88	PL PL 4" x 1"	106.6266	25.27	5	6	0.7032	91.2854	25.27	4	6	0.6021
71.88	79.63	PL PL 4" x 1"	98.6109	25.27	4	6	0.6504	102.9651	25.27	5	6	0.6791
87.23	96.94	SOL #20 All Thread Bar	93.1329	12	8	18	0.4312	0	12	0	0	0.0000
93.06	113.94	SOL #20 All Thread Bar	86.0222	12	8	12	0.5974	100.07	12	9	12	0.6949
112.75	116.25	PL PL 4" x 1"	120.4032	38.27	4	6	0.5244	57.4137	38.27	2	6	0.2500

BASE PLATE ANALYSIS @ 0 FT

PLATE PARAMETERS (ID# 21017)

Width: 44 in
 Shape: Square
 Thickness: 2.5 in
 Grade: A572-60
 Yield Strength: 60 ksi
 Tensile Strength: 75 ksi
 Clip Length: 0 in
 Rod Detail Type: c
 Clear Distance: - in
 Base Weld Size: 0.25 in
 Orientation Offset: - °
 Analysis Type: Elastic
 Neutral Axis: 308 °



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	Fy (ksi)	Fu (ksi)	Spacing (in)	Offset (°)
Original [ID# 21573]	Cluster	8	2.25	44	A615-75	75	100	6	-
Additional [ID# 21572]	Radial	4	1.5	44	Not Listed	109	125	-	65

DYWIDAG BAR PARAMETERS

Quantity	Bar Size	Bar Diameter (in)	Fy (ksi)	Fu (ksi)	Bracket Type	Bracket Offset (in)	Circle (in)	Offset (°)
4 [ID# 1756]	#20	2.5	80	100	Angle	2.19	44.26	-

ANCHOR ROD GEOMETRY AND APPLIED LOADS --- ORIGINAL (8) 2.25"Ø [ID 21573]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in ⁴)	Axial Load (k)	Shear Load (k)
1	0.649	17.53	13.30	20.685	1390.482	192.59	0.07
2	0.922	13.30	17.53	20.000	1299.909	186.28	1.32
3	2.220	-13.30	17.53	0.294	1.119	4.92	5.16
4	2.493	-17.53	13.30	-5.289	91.692	-46.46	4.99
5	3.791	-17.53	-13.30	-20.685	1390.482	-188.15	0.07
6	4.063	-13.30	-17.53	-20.000	1299.909	-181.84	1.32
7	5.361	13.30	-17.53	-0.294	1.119	-0.48	5.16
8	5.634	17.53	-13.30	5.289	91.692	50.90	4.99

ASSET: 302480, Woodbridge CT 1
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: 13668990

ANCHOR ROD GEOMETRY AND APPLIED LOADS --- ADDITIONAL (4) 1.5"Ø [ID 21572]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in ⁴)	Axial Load (k)	Shear Load (k)
1	2.705	-19.94	9.30	-9.988	140.339	-38.96	0.77
2	4.276	-9.30	-19.94	-19.602	540.117	-77.24	0.39
3	5.847	19.94	-9.30	9.988	140.339	40.59	0.77
4	1.134	9.30	19.94	19.602	540.117	78.87	0.39

DYWIDAG BAR GEOMETRY AND APPLIED LOADS --- (4) #20 [ID 1756]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in ⁴)	Axial Load (k)
1	1.571	0.00	22.13	13.625	913.124	183.32
2	3.142	-22.13	0.00	-17.439	1494.702	-222.30
3	4.712	0.00	-22.13	-13.625	913.124	-172.50
4	6.283	22.13	0.00	17.439	1494.702	233.12

REACTION DISTRIBUTION

Component	ID	Moment Mu (k-ft)	Axial Load Pu (k)	Shear Vu (k)	Moment Factor
Pole	37.38"Ø x 0.375" (12 Sides)	1635.8	54.79	25.51	0.605
Bolt Group	Original (8) 2.25"Ø	1314.5	-	23.08	0.486
Bolt Group	Additional (4) 1.5"Ø	321.4	-	2.43	0.119
Dywidag Group	(4) #20	1067.5	-	-	0.395
TOTALS		2703.38	54.79	25.51	

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	37.38"Ø x 0.375" (12 Sides)	43.0992	-	-	7379.37	-
Bolt Group	Original (8) 2.25"Ø	3.9761	3.2477	0.8393	5566.40	4.5
Bolt Group	Additional (4) 1.5"Ø	1.7671	1.4053	0.1571	1360.91	6.0
Dywidag Group	(4) #20	4.9087	4.9087	1.9175	4815.65	-

EXTERNAL BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter: 37.63 in
 Point-to-Point Diameter: 38.96 in
 Flat Width: 10.083 in
 Flat Radians: 0.524 rad

PLATE PROPERTIES

Neutral Axis: 308 °
 Bend Line Lower Limit: rad
 Bend Line Upper Limit: -0.179 rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment Mu (k-in)	Moment Capacity φMn (k-in)	Ratio
Flat	24.595	0.00	38.430	643.0	2075.2	0.310
Corner	23.268	0.00	36.356	339.2	1963.2	0.173

ASSET: 302480, Woodbridge CT 1
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
ENG NO: 13668990

ELASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load Pu (k)	Applied Shear Load Vu (k)	Compressive Capacity ϕP_n (k)	Ratio	Interaction
Original	8	2.25	192.6	0.1	243.6	0.791	0.791
Additional	4	1.5	78.9	0.4	131.7	0.599	0.599

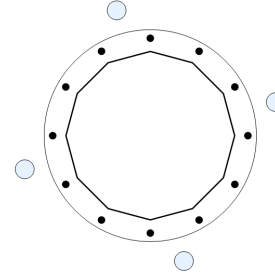
DYWIDAG BAR ANALYSIS

Group Quantity	Bar Size	Bar Circle (in)	Applied Axial Load Pu (k)	Compressive Capacity ϕP_n (k)	Ratio
4	#20	44.26	233.1	368.2	0.633

UPPER FLANGE PLATE ANALYSIS @ 110.0033 FT

PLATE PARAMETERS (ID# 21018)

Diameter: 28 in
 Shape: Round
 Thickness: 1 in
 Grade: A572-60
 Yield Strength: 60 ksi
 Tensile Strength: 75 ksi
 Pole Weld Size: 0.188 in
 Orientation Offset: - °
 Analysis Type: Elastic
 Neutral Axis: 0 °



FLANGE BOLT PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	Fy (ksi)	Fu (ksi)	Spacing (in)	Offset (°)
Original [ID# 21574]	Radial	12	1	25.75	A325	92	120	-	-

DYWIDAG BAR PARAMETERS

Quantity	Bar Size	Bar Diameter (in)	Fy (ksi)	Fu (ksi)	Bracket Type	Bracket Offset (in)	Circle (in)	Offset (°)
4 [ID# 1755]	#20	2.5	80	100	W5x19	5.15	34.30	15

FLANGE BOLT GEOMETRY AND APPLIED LOADS --- ORIGINAL (12) 1"Ø [ID 21574]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in ⁴)	Axial Load (k)	Shear Load (k)
1	0.524	11.15	6.44	6.125	22.754	6.76	1.72
2	1.047	6.44	11.15	10.609	68.204	11.53	0.99
3	1.571	0.00	12.88	12.250	90.929	13.27	0.00
4	2.094	-6.44	11.15	10.609	68.204	11.53	0.99
5	2.618	-11.15	6.44	6.125	22.754	6.76	1.72
6	3.142	-12.88	0.00	0.000	0.029	0.26	1.98
7	3.665	-11.15	-6.44	-6.125	22.754	-6.25	1.72
8	4.189	-6.44	-11.15	-10.609	68.204	-11.02	0.99
9	4.712	0.00	-12.88	-12.250	90.929	-12.76	0.00
10	5.236	6.44	-11.15	-10.609	68.204	-11.02	0.99
11	5.760	11.15	-6.44	-6.125	22.754	-6.25	1.72
12	6.283	12.88	0.00	0.000	0.029	0.26	1.98

DYWIDAG BAR GEOMETRY AND APPLIED LOADS --- (4) #20 [ID 1755]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in ⁴)	Axial Load (k)
1	1.833	-4.44	16.56	16.563	1348.589	113.38
2	3.403	-16.56	-4.44	-4.438	98.604	-26.38
3	4.974	4.44	-16.56	-16.563	1348.589	-107.08
4	0.262	16.56	4.44	4.438	98.604	32.69

REACTION DISTRIBUTION

Component	ID	Moment Mu (k-ft)	Axial Load Pu (k)	Shear Vu (k)	Moment Factor
Pole	21.4951"ø x 0.188" (12 Sides)	79.8	15.68	14.78	0.196
Bolt Group	Original (12) 1"ø	79.8	-	14.78	0.196
Dywidag Group	(4) #20	327.0	-	-	0.804
TOTALS		406.78	15.68	14.78	

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	21.4951"ø x 0.188" (12 Sides)	12.4411	-	-	706.17	-
Bolt Group	Original (12) 1"ø	0.7854	0.6057	0.0292	545.75	8.0
Dywidag Group	(4) #20	4.9087	4.9087	1.9175	2894.39	-

EXTERNAL UPPER FLANGE PLATE BEND LINE ANALYSIS @ 110.0033 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	21.68	in
Point-to-Point Diameter:	22.45	in
Flat Width:	5.810	in
Flat Radians:	0.524	rad

PLATE PROPERTIES

Neutral Axis:	0	°
Bend Line Lower Limit:	1.248	rad
Bend Line Upper Limit:	1.894	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment Mu (k-in)	Moment Capacity φMn (k-in)	Ratio
Flat	16.628	0.00	4.157	18.7	224.5	0.083
Corner	15.580	0.00	3.895	13.6	210.3	0.065
Circumferential	15.414	0.00	3.853	13.6	208.1	0.065

ELASTIC FLANGE BOLT ANALYSIS

Class	Group Quantity	Bolt Diameter (in)	Applied Axial Load Pu (k)	Applied Shear Load Vu (k)	Compressive Capacity φPn (k)	Ratio	Interaction
Original	12	1	13.3	0.0	54.5	0.243	0.243

DYWIDAG BAR ANALYSIS

Group Quantity	Bar Size	Bar Circle (in)	Applied Axial Load Pu (k)	Compressive Capacity φPn (k)	Ratio
4	#20	34.30	113.4	368.2	0.308



Pier Foundation Analysis

Analysis Parameters	
TIA Standard	TIA-222-H
Analysis Type	Flexible
Tower Type	Monopole
Pier Type	Drilled Pier

Base Reactions		
Moment	2703.4	k-ft
Shear	25.5	k
Axial	54.8	k
Uplift	-	k

Analysis Options
<input checked="" type="checkbox"/> Pier Foundation Mapped
<input type="checkbox"/> Check Servicability Limit State
<input type="checkbox"/> Check Anchor Rod Development
<input type="checkbox"/> Additional Rebar Circles
<input type="checkbox"/> Collar Modification
<input type="checkbox"/> Use ACI 318-05 Load Factors [9.2.1(b)]

Pier Geometry		
Diameter	5.0	ft
Embedment	30.8	ft
Height Above Grade	0.3	ft
Concrete Strength	3000	psi

Original Vertical Rebar (Group 1)		
Quantity	15	-
Rebar Size	#9	-
Grade	A615-60	-
Orientation Offset	0	°
Top Cover	3.0	in
Bottom Cover	3.0	in

Horizontal Ties		
# of Tie Spacings / Sizes	1	-
Cover	3.0	in

Horizontal Tie #1		
Size	#4	-
Grade	A615-60	-
Spacing	18.0	in
End Depth	31.1	ft

Soil Data		
Water Table	2.0	ft
Ratio T/C Skin Friction	1.00	-
Pullout Angle	30	deg

User Selected p-y Curves

Soil Properties Table						
Depth at Bottom (ft)	Density (pcf)	Cohesion (psf)	Friction Angle (deg)	Ultimate Skin Friction (psf)	Ultimate Net Bearing Pressure (psf)	Soil p-y Curve (LPile)
2	105	0	0	0	0	Sand
4	106	0	29	0	0	Sand
6	120	0	33	488	0	Sand
8	116	0	31	516	0	Sand
10	117	0	31	684	0	Sand
15	129	0	39	783	0	Sand
20	139	0	40	1,173	0	Sand
25	140	15,996	0	7,198	0	Stiff Clay with Free Water
30	140	16,437	0	7,397	0	Stiff Clay with Free Water
35	140	16,499	0	7,424	122,773	Stiff Clay with Free Water

Results

Soil		
Component	Usage	Pass/Fail
Ultimate Deflection	0.80-in	Pass
Axial	2%	Pass
Uplift	-	-
Service Deflection	0.10-in	Pass

Note(s):
 - Rebar unknown. Total area of vertical rebar assumed to be 0.5% * Pier Area.



VICINITY MAP



AMERICAN TOWER®

SITE NAME: WOODBRIDGE CT 1
 SITE NUMBER: 302480
 ATC PROJECT NUMBER: 13756843_C6_05
 SITE ADDRESS: 77 PEASE ROAD
 WOODBRIDGE, CT 06525



LOCATION MAP

150 FT MONOPOLE MODIFICATIONS

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.
<p>TOWER OWNER AMERICAN TOWER 10 PRESIDENTAL WAY WOBURN, MA 01801</p> <p>ENGINEERED BY ATC TOWER SERVICES 3500 REGENCY PARKWAY, SUITE 100 CARY, NC 27518</p> <p>CARRIER INFORMATION CARRIER: AT&T MOBILITY CARRIER SITE NAME: MRCTB054683 CARRIER SITE NUMBER: CTL02010</p>	<p>THE PROJECT DEPICTED IN THESE PLANS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 13756843_C3_04 DATED 05/13/22. 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>PROJECT NOTE</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>COMPLIANCE CODE</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>PROJECT LOCATION GEOGRAPHIC COORDINATES</p> <p>LATITUDE: 41.34144444 LONGITUDE: -72.9936</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 (CONT'D)	0
		S-503	#20 STEP BOLT BRACKET INSTALLATION DETAILS	0
		S-504	REINFORCEMENT INSTALLATION DETAILS	0
		Z-501	#20 BAR BRACKET [W5X19 T-BRACKET]	0
Z-502	#20 BAR TERMINATION BRACKET [W5X19 12 U-BOLT]	0		
Z-503	PLATE FABRICATION DETAILS	0		

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

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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	08/31/22

ATC SITE NUMBER:
302480

ATC SITE NAME:
WOODBRIDGE CT 1
CONNECTICUT

SITE ADDRESS:
77 PEASE ROAD
WOODBRIDGE, CT 06525



DRAWN BY:	CWB
APPROVED BY:	THP
DATE DRAWN:	08/31/22
ATC JOB NO:	13756843_C6_05

COVER

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

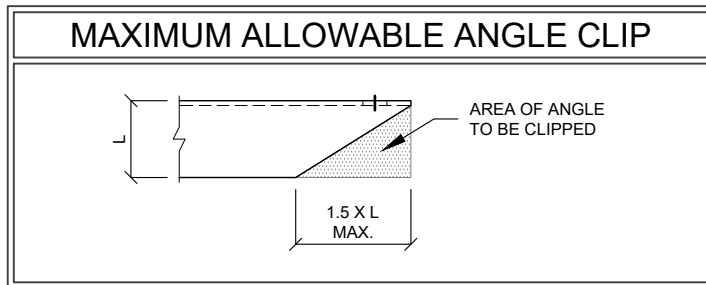


GENERAL

- 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:
 - a) STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
 - b) 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.

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CONNECTICUT

SITE ADDRESS:
77 PEASE ROAD
WOODBIDGE, CT 06525



DRAWN BY:	CWB
APPROVED BY:	THP
DATE DRAWN:	08/31/22
ATC JOB NO:	13756843_C6_05

IBC GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

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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ATC SITE NUMBER:
 302480
 ATC SITE NAME:
WOODBIDGE CT 1
CONNECTICUT
 SITE ADDRESS:
 77 PEASE ROAD
 WOODBRIDGE, CT 06525




DRAWN BY:	CWB
APPROVED BY:	THP
DATE DRAWN:	08/31/22
ATC JOB NO:	13756843_C6_05

SPECIAL INSPECTION CHECKLIST

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

BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES
#20 DYWIDAG REINFORCEMENT MATERIAL & HARDWARE								
4	4	DYD-20-ATR-30	#20 ALL THREAD ROD 30'	30'-0"	S-501	501.0	2004	GALVANIZED
36	36	W519-20	W5X19	1'-3"	S-501, Z-501	25.0	900	#20 T-BRACKET
8	8	W519-12U	W5X19	3'-6 3/4"	S-501, Z-502	71.1	569	#20 T-BRACKET
192	202	UB-580-3125	U-BOLT ASSEMBLIES FOR #20 ROD	---	---	---	---	GALVANIZED
128	134	NG-0625-0875-A490	NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490	---	---	---	---	ALLFASTENERS - 2NG2060
24	29	#20SB	STEP BOLT WELDMENT	0'-7 1/4"	S-503	2.5	73	
3	3	---	STUD MOUNT CABLE GUIDE - 1/2"Ø	---	---	---	---	ALLFASTENERS - 14AFTRIM12
3	3	---	ROUND LEG INTERMEDIATE BRACKET	---	---	---	---	ALLFASTENERS - 14AFRHC12
FLAT PLATE REINFORCEMENT MATERIAL & HARDWARE								
8	8	302480-1	PL 1" X 4"	20'-0"	S-504, Z-503	285.8	2286	
4	4	302480-2	PL 1" X 4"	3'-6 1/8"	S-504, Z-503	50.2	201	
3	3	302480-3	PL 1" X 4"	7'-0"	S-504, Z-503	100.0	300	
151	159	NG-0938-1438-A490	NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490	---	---	---	---	ALLFASTENERS - 2NG2036
48	50	NG-1875-2250-A490	NEXGEN2 BLIND BOLT ASSEMB., M20 W/ SPRING SLEEVE, A490	---	---	---	---	ALLFASTENERS - 2NG2057
TOTAL WEIGHT (lb)						6,333		



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BILL OF MATERIALS

SHEET NUMBER: G-004	REVISION: 0
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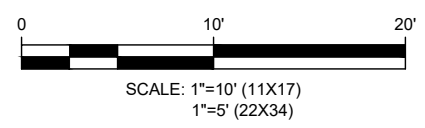
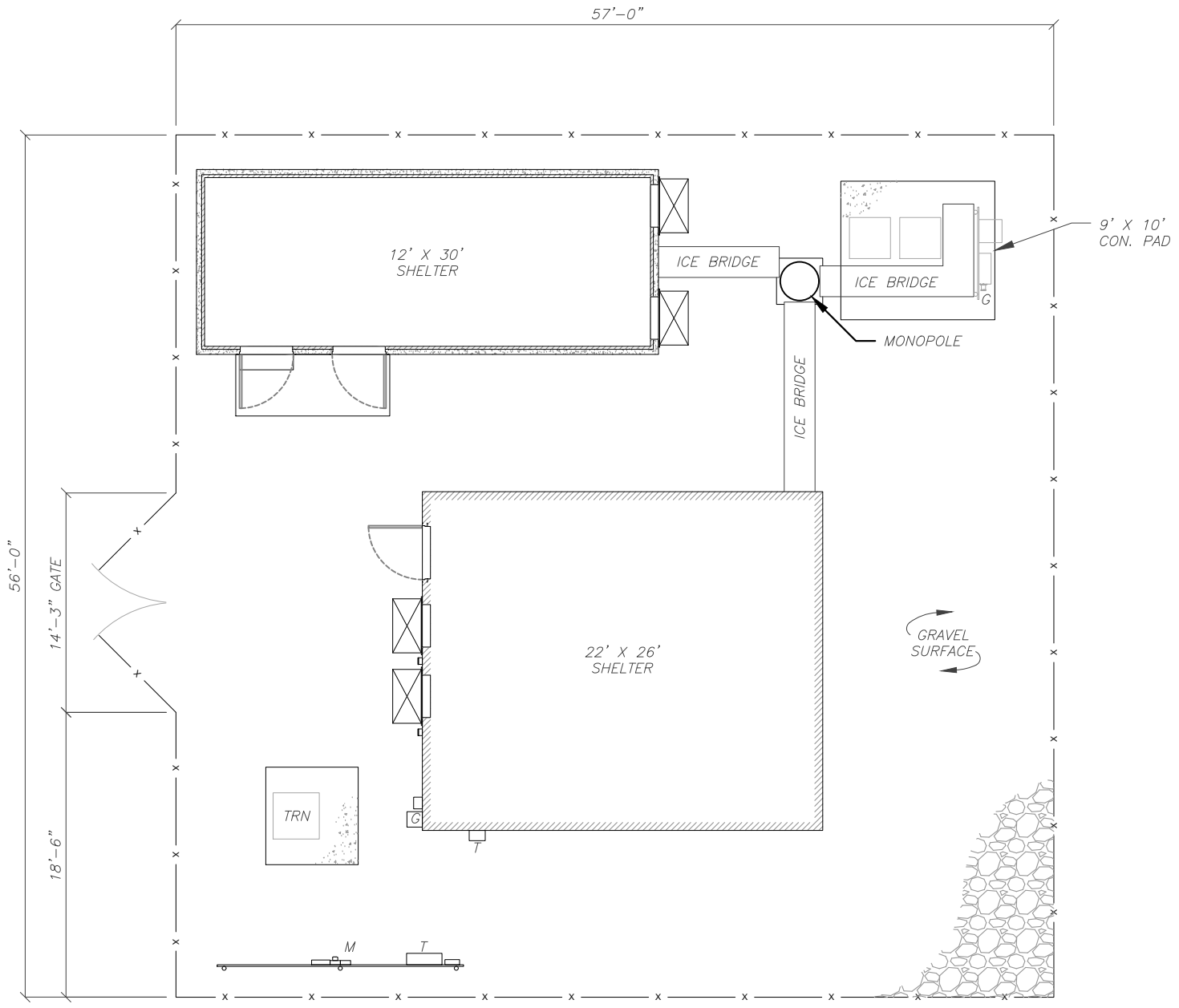
DETAILED SITE PLAN

SHEET NUMBER:
C-101

REVISION:
0

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
— — — —	GUARD RAIL
x x x x	CHAINLINK FENCE
— — — —	ROAD (DIRT)
— — — —	ROAD (STONE)
— — — —	ROAD (PAVED)



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AT&T MOBILITY
 EL: 155.0' [PROPOSED]
 EL: 153.0' [PROPOSED]
 EL: 151.0' [PROPOSED]

EL: 150.0'
 [TOP OF STRUCTURE]

SECTION 4

EL: 110.0'

SECTION 3

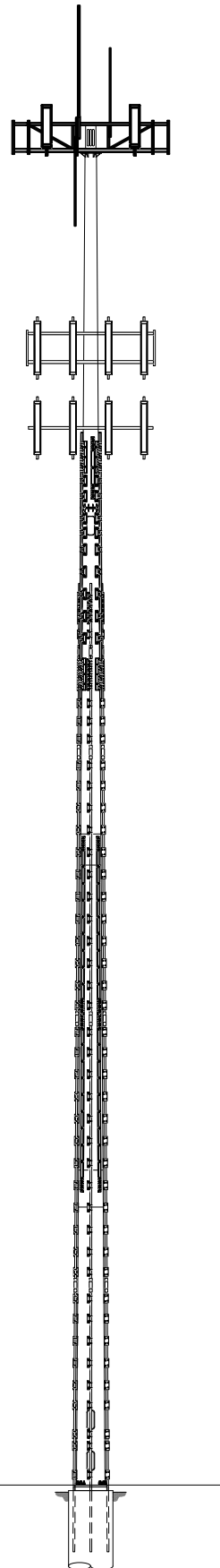
EL: 73.5'

SECTION 2

EL: 35.7'

SECTION 1

EL: 0.0'
 [BOTTOM OF STRUCTURE]



INSTALL (3) PLATE REINFORCEMENT
 [PL 1" X 4"]
 FROM EL: 111.0'± TO 118.0'±. SEE SHEET
 S-504 FOR INSTALLATION DETAILS.

INSTALL (4) DYWIDAG
 #20 ALL THREAD RODS
 FROM EL: 88.5' TO 118.5'.
 SEE SHEETS S-501 TO S-503
 FOR INSTALLATION DETAILS.

INSTALL (4) PLATE REINFORCEMENT
 [PL 1" X 4"]
 FROM EL: 33.0'± TO 73.0'±. SEE SHEET
 S-504 FOR INSTALLATION 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.
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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 CONNECTICUT

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 WOODBRIDGE, CT 06525



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MODIFICATION PROFILE

SHEET NUMBER:	REVISION:
S-201	0



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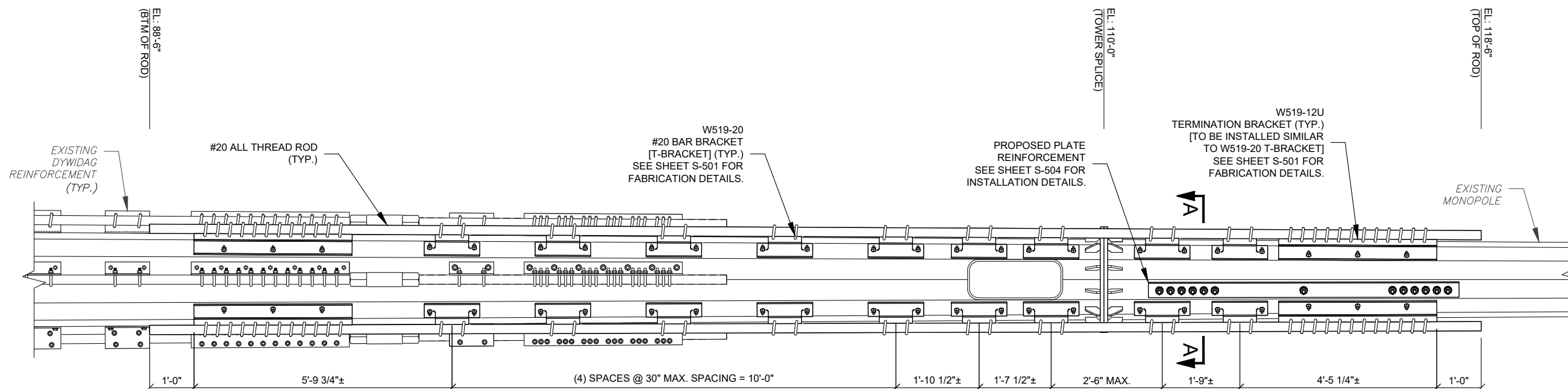


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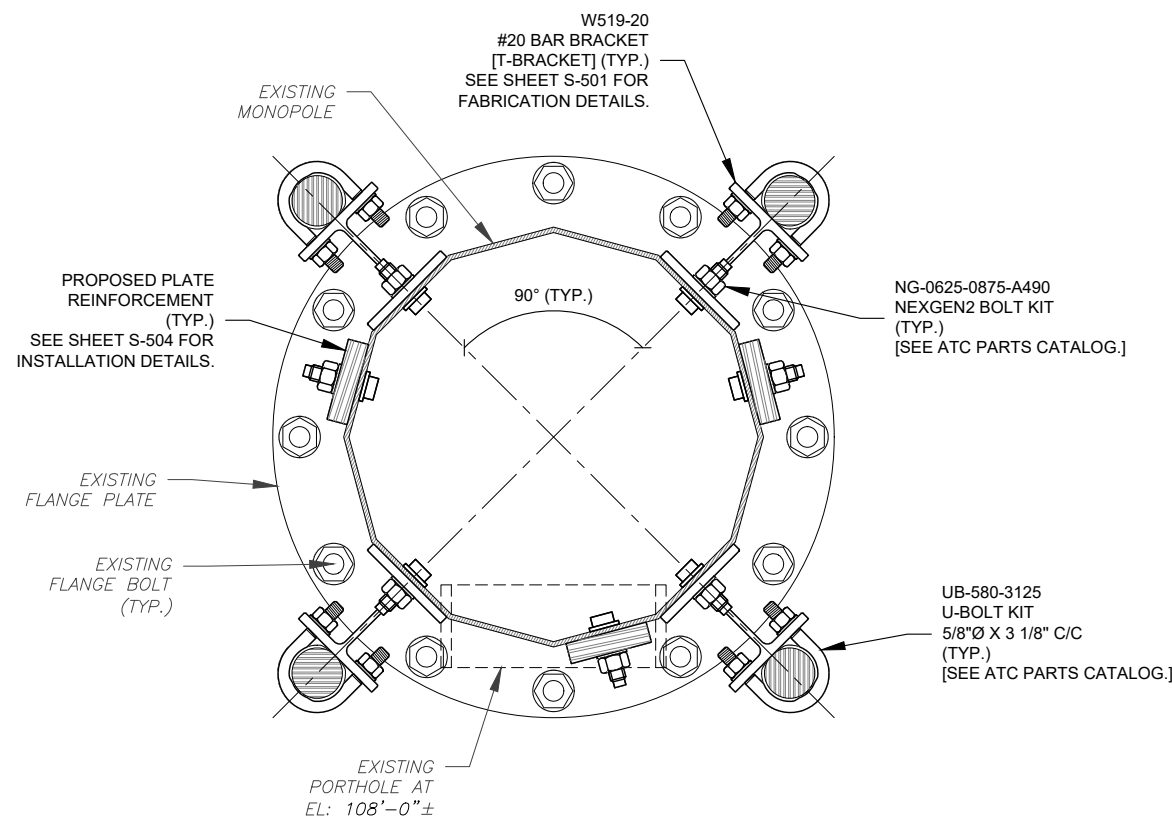
**REINFORCEMENT
 INSTALLATION DETAILS**

SHEET NUMBER:
S-501

REVISION:
0



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



**SECTION "A-A"
 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-503 FOR INSTALLATION DETAILS.
 2. PLACE A BRACKET (W519-20) DIRECTLY ABOVE AND BELOW ANY EXISTING PORTHOLE AS REQUIRED.
 3. SEE SHEET S-502 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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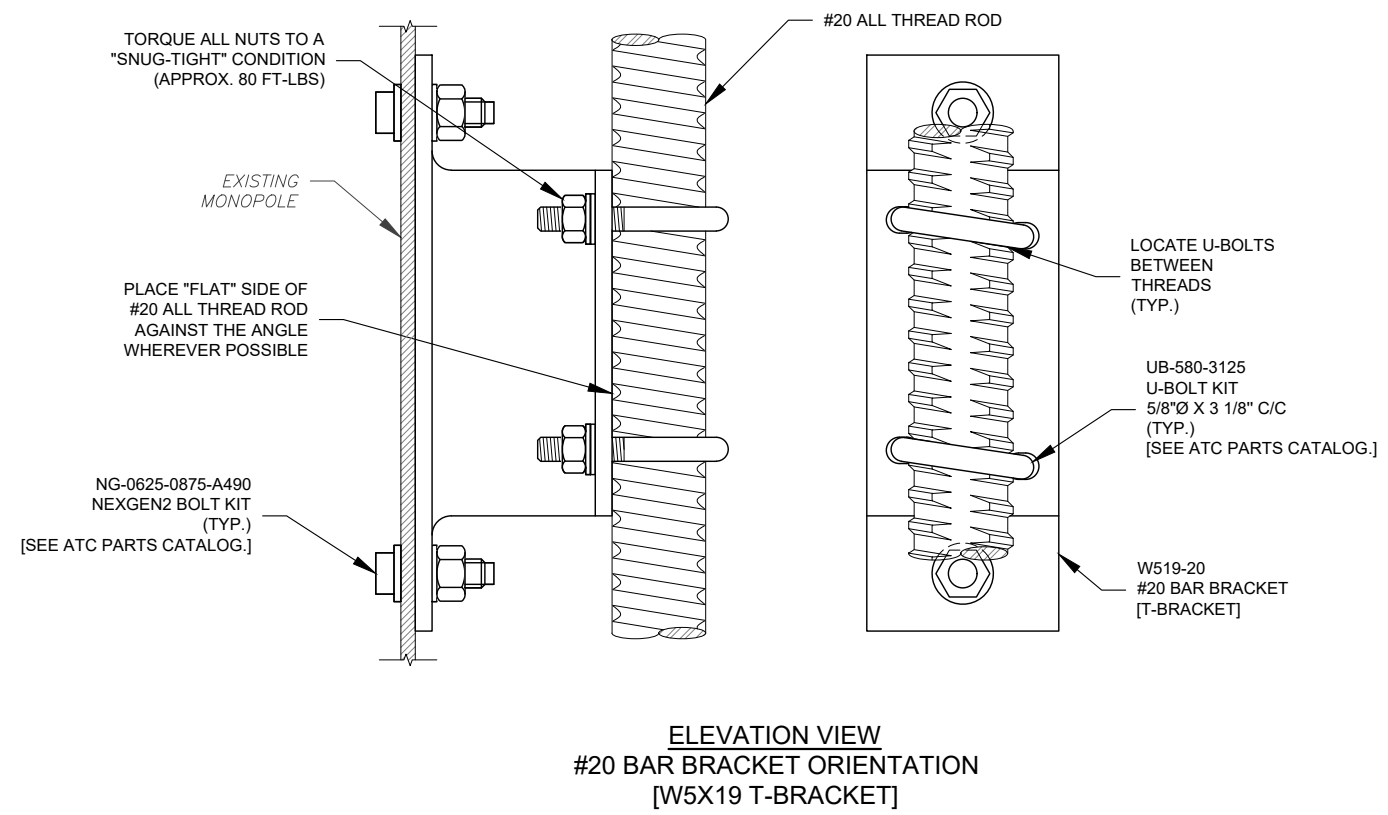
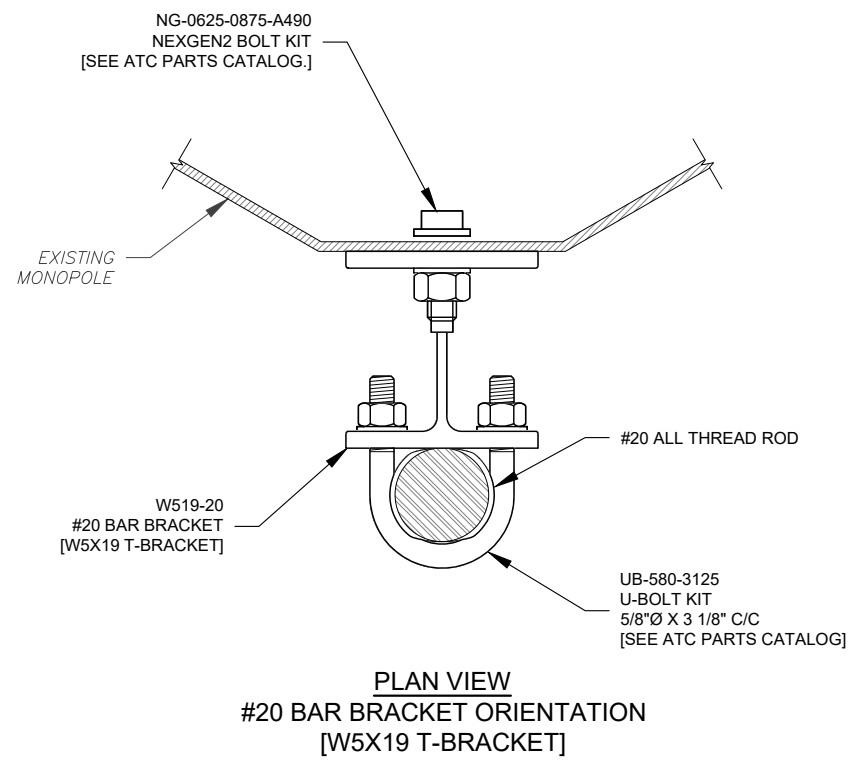
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**REINFORCEMENT
 INSTALLATION DETAILS
 (CONT'D)**

SHEET NUMBER:	REVISION:
S-502	0



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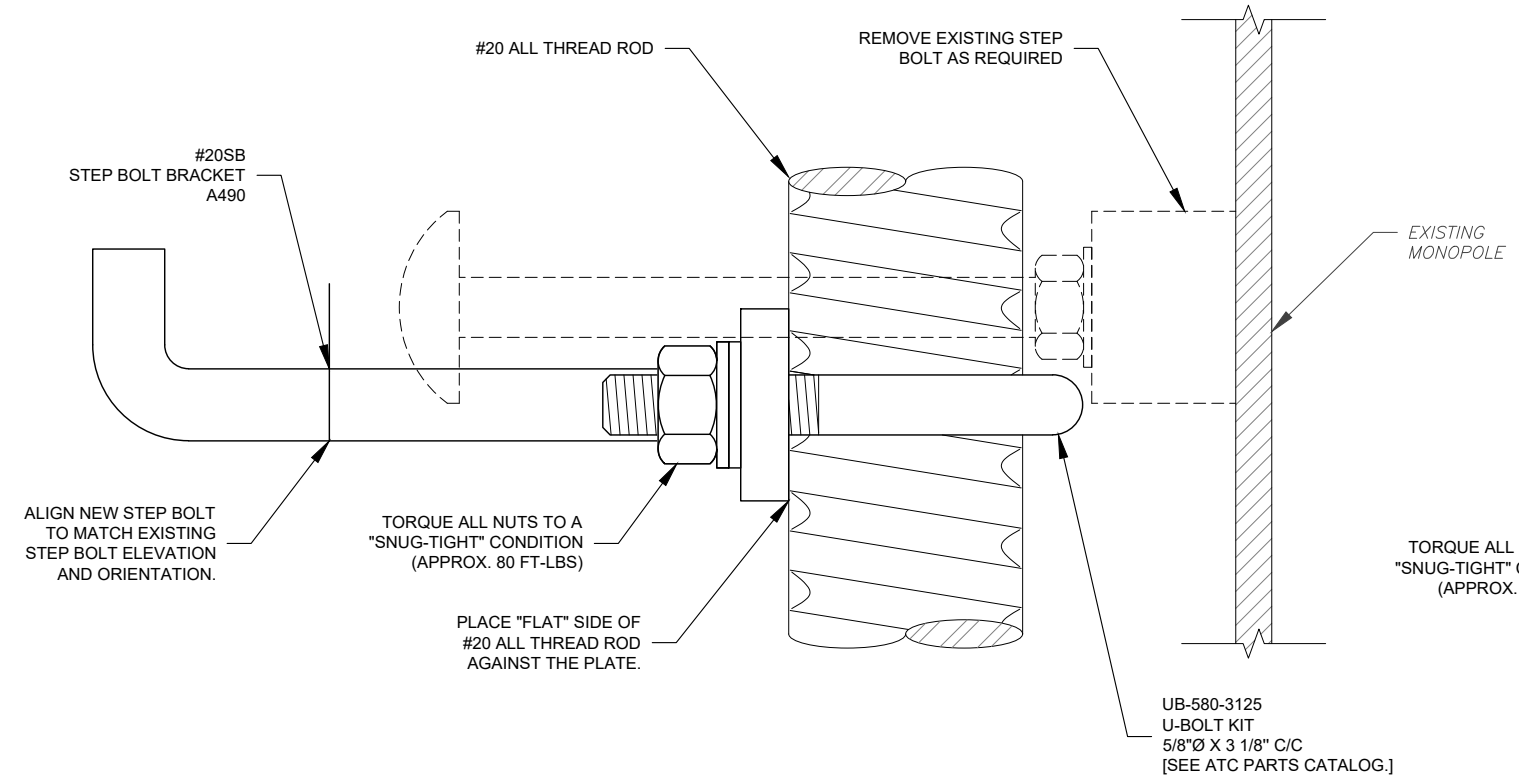


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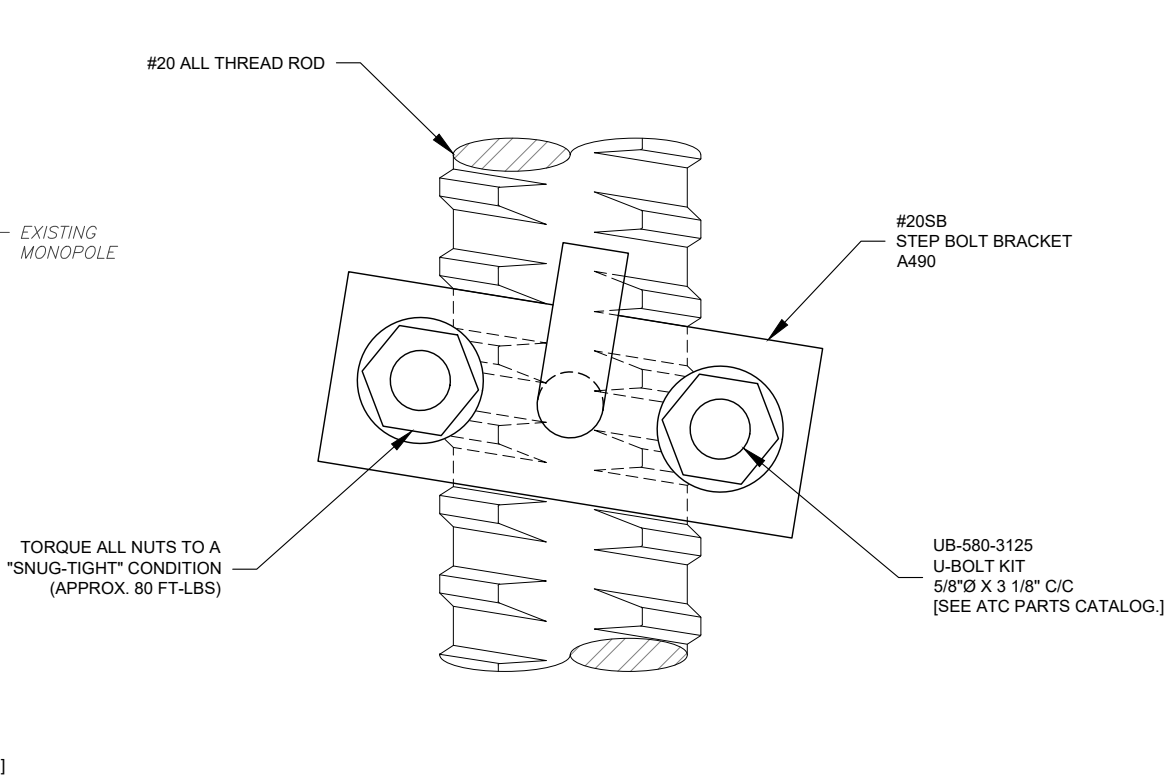
#20 STEP BOLT BRACKET INSTALLATION DETAILS

SHEET NUMBER:
S-503

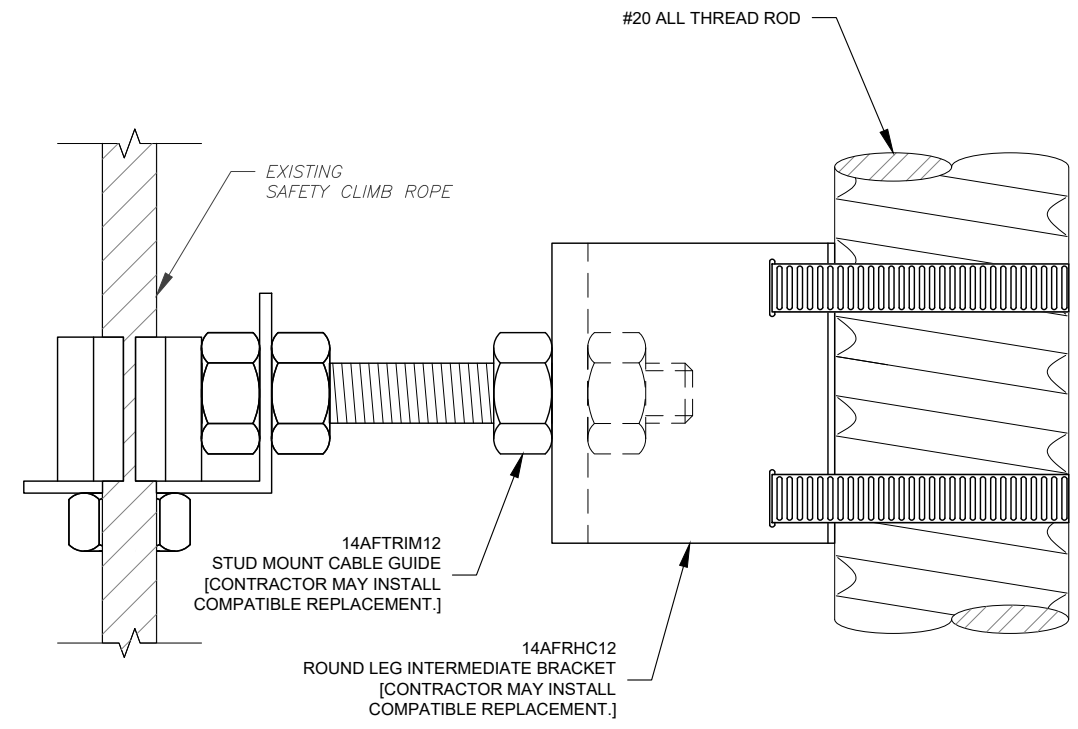
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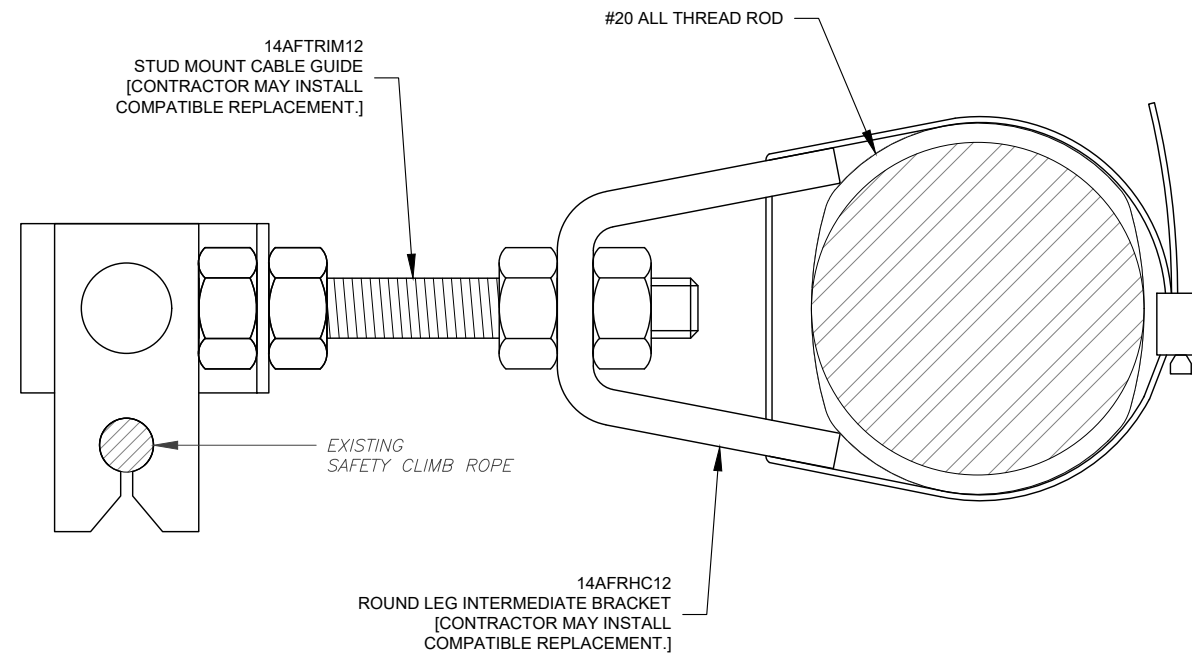
**#20SB INSTALLATION DETAILS
 SIDE VIEW**



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

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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	08/31/22

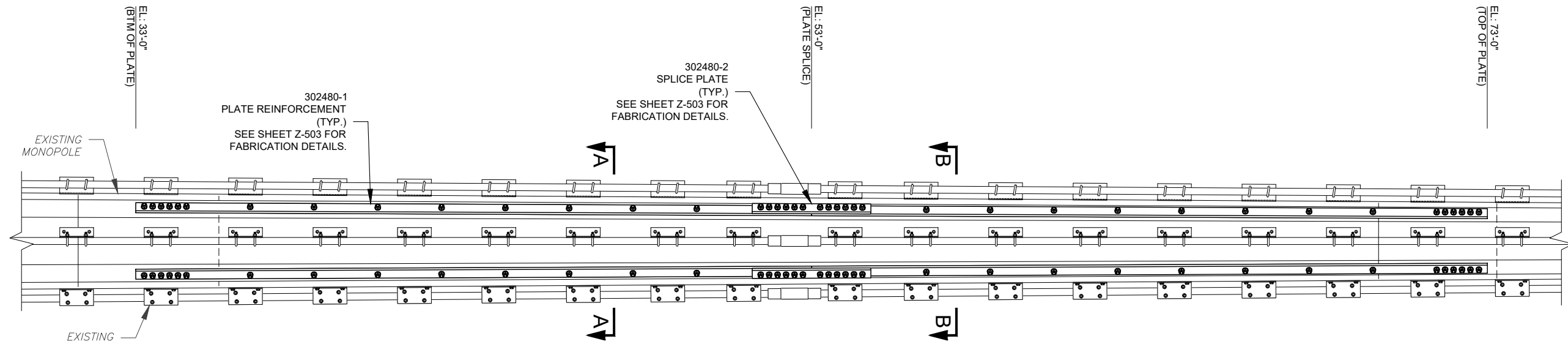
ATC SITE NUMBER:
302480
 ATC SITE NAME:
WOODBIDGE CT 1
CONNECTICUT
 SITE ADDRESS:
 77 PEASE ROAD
 WOODBRIDGE, CT 06525



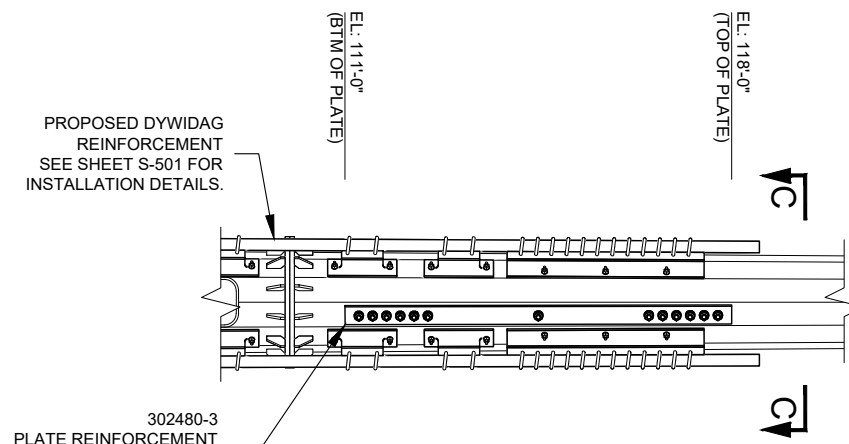
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APPROVED BY:	THP
DATE DRAWN:	08/31/22
ATC JOB NO:	13756843_C6_05

**REINFORCEMENT
 INSTALLATION DETAILS**

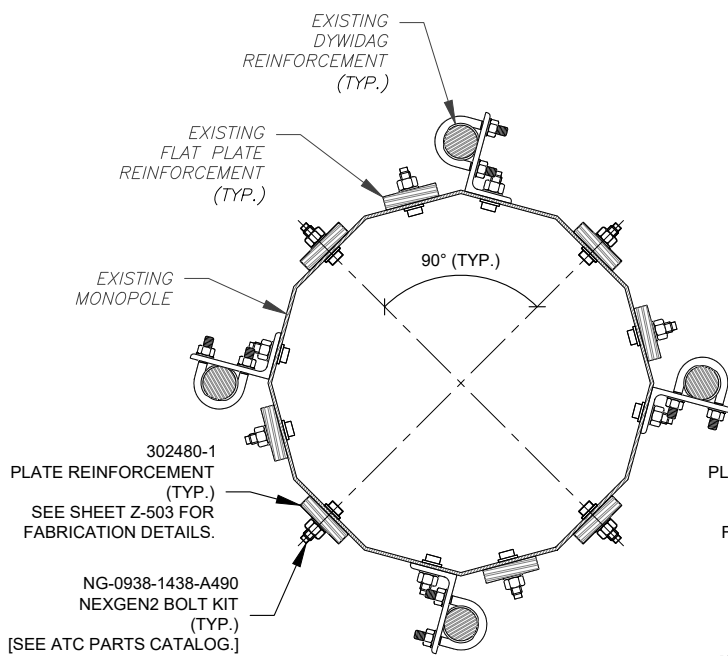
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S-504
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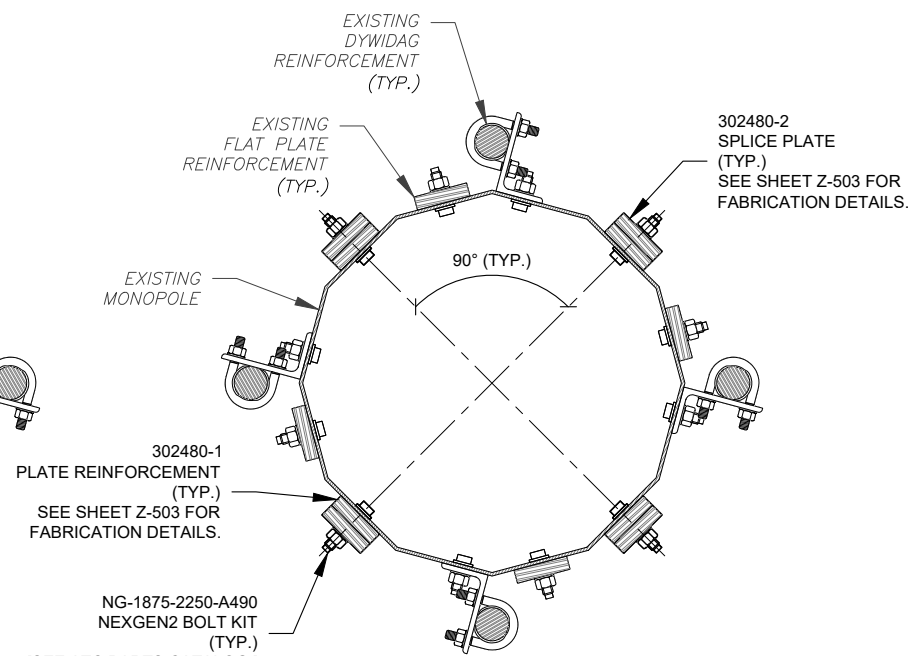
**ELEVATION VIEW
 FLAT PLATE INSTALLATION DETAIL
 (EXISTING FLAT PLATE REINFORCEMENT
 NOT SHOWN FOR CLARITY)**



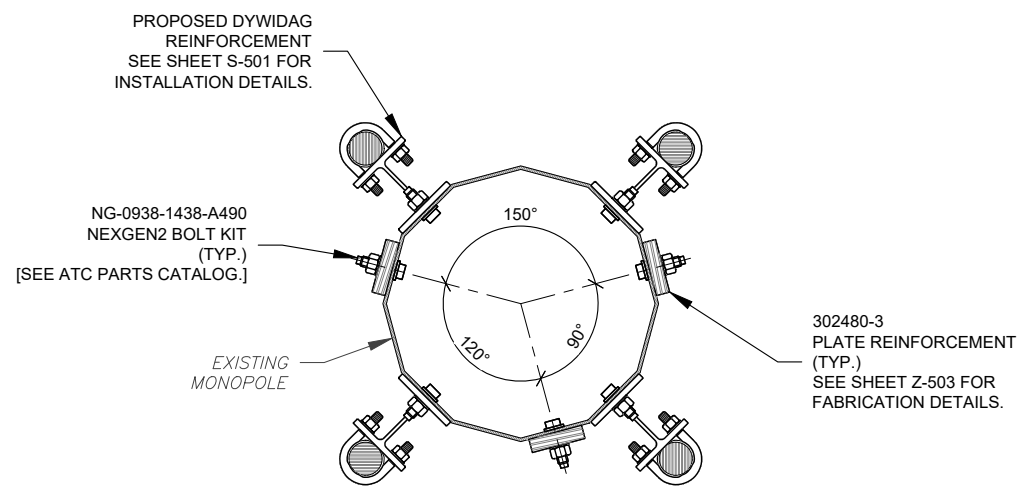
**ELEVATION VIEW
 FLAT PLATE INSTALLATION DETAIL**



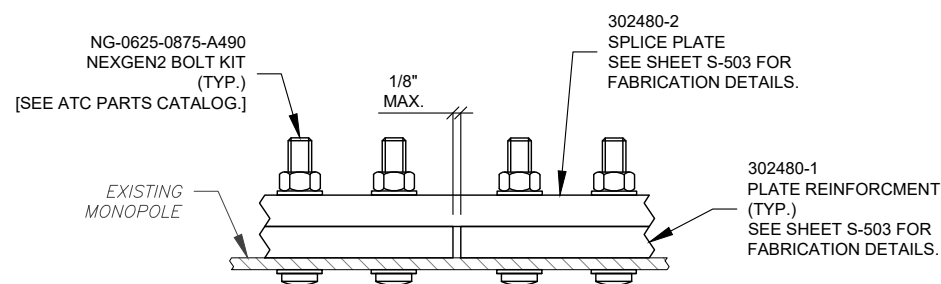
**SECTION "A-A"
 TYPICAL DETAIL**



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



**SECTION "C-C"
 TYPICAL DETAIL**



**DETAIL "A"
 SPLICE PLATE INSTALLATION**

NOTE:
 SEE SHEET S-501 FOR #20 ALL THREAD ROD INSTALLATION DETAILS.

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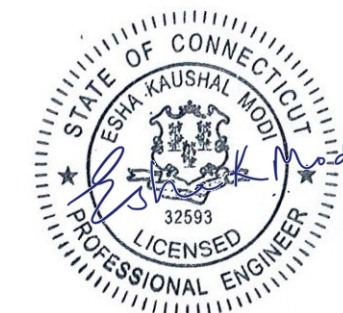


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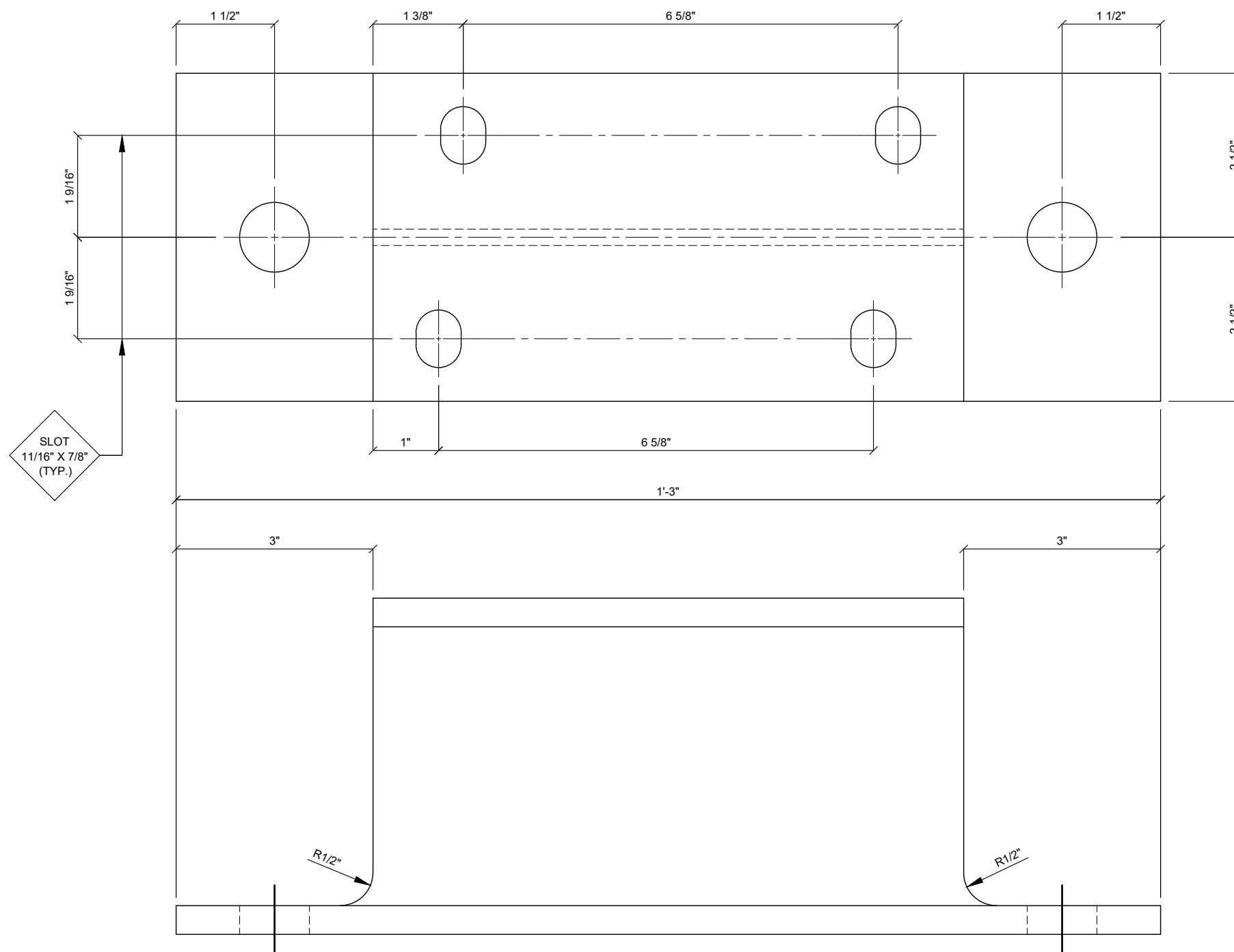
ATC SITE NUMBER:
 302480
 ATC SITE NAME:
 WOODBRIDGE CT 1
 CONNECTICUT
 SITE ADDRESS:
 77 PEASE ROAD
 WOODBRIDGE, CT 06525



DRAWN BY:	CWB
APPROVED BY:	THP
DATE DRAWN:	08/31/22
ATC JOB NO:	13756843_C6_05

#20 BAR BRACKET
 [W5X19 T-BRACKET]

SHEET NUMBER:
Z-501
 REVISION:
0



W519-20
 #20 BAR BRACKET
 [T-BRACKET]

PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
W519-20	W5X19	1'-3"		23.8#	25.0#
MATERIAL: A36		FINISH: GALVANIZED		HOLES: 1 3/16" Ø U.N.O.	



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0	FIRST ISSUE	CWB	08/31/22

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ATC SITE NAME:
WOODBIDGE CT 1
CONNECTICUT

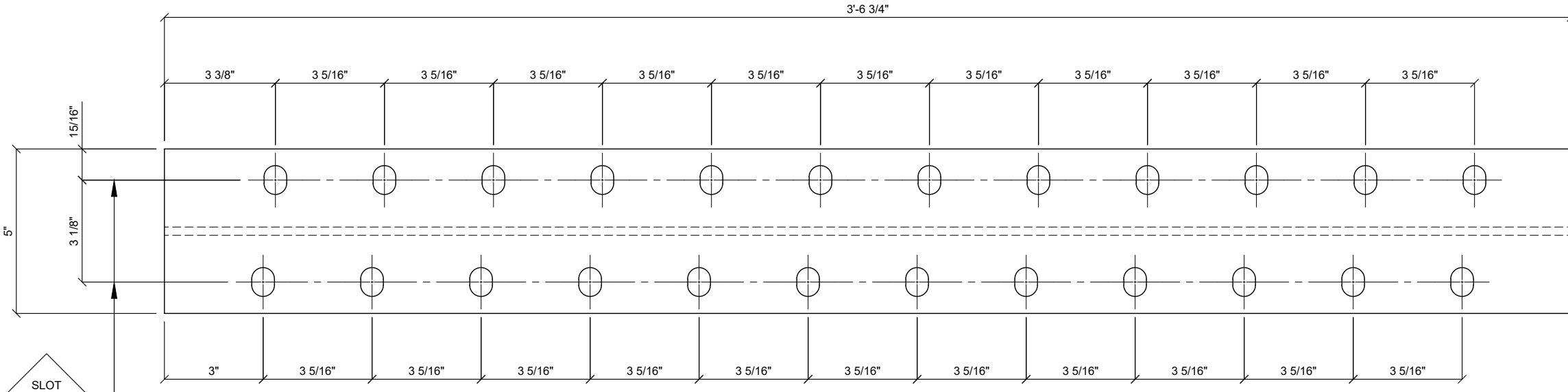
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 WOODBRIDGE, CT 06525



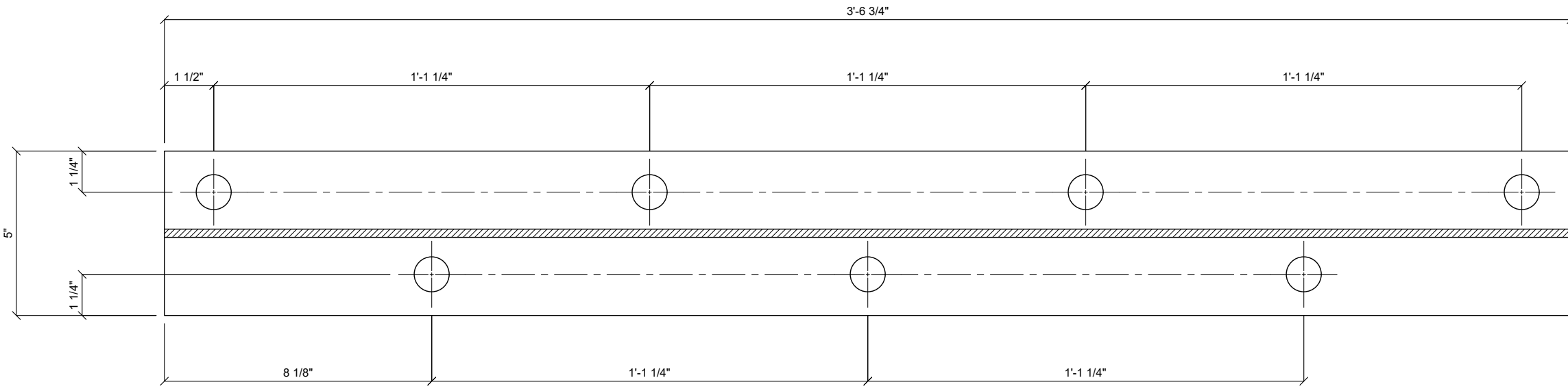
DRAWN BY:	CWB
APPROVED BY:	THP
DATE DRAWN:	08/31/22
ATC JOB NO:	13756843_C6_05

#20 BAR
TERMINATION BRACKET
[W5X19 12 U-BOLT]

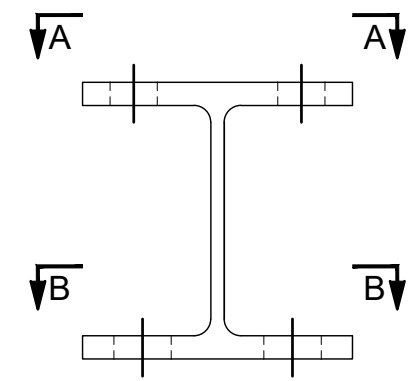
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Z-502	0



SECTION "A-A"
OUTER FLANGE VIEW



SECTION "B-B"
INNER FLANGE VIEW



W519-12U
(NTS)

PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
W519-12U	W5X19	3'-6 3/4"		67.7#	71.1#
MATERIAL: A36		FINISH: GALVANIZED		HOLES: 1 3/16"Ø U.N.O.	

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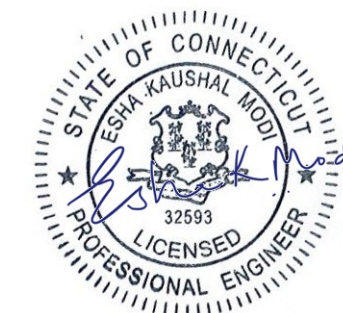
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CWB	08/31/22

ATC SITE NUMBER:
302480

ATC SITE NAME:
WOODBIDGE CT 1

CONNECTICUT

SITE ADDRESS:
 77 PEASE ROAD
 WOODBRIDGE, CT 06525

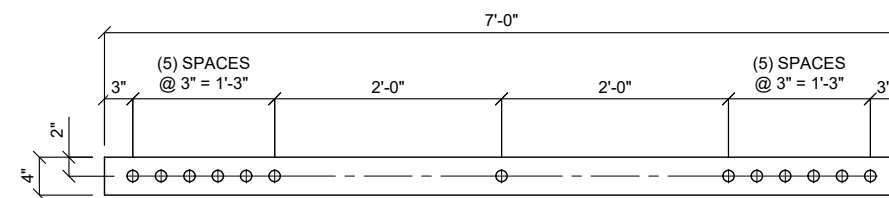


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APPROVED BY:	THP
DATE DRAWN:	08/31/22
ATC JOB NO:	13756843_C6_05

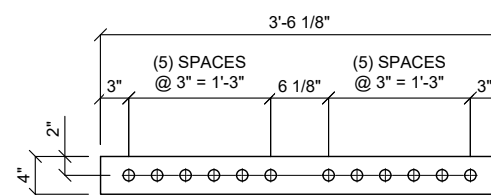
PLATE FABRICATION DETAILS

SHEET NUMBER:
Z-503

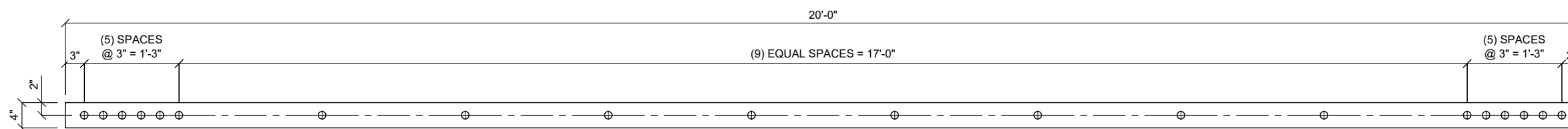
REVISION:
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302480-3
PLATE REINFORCEMENT

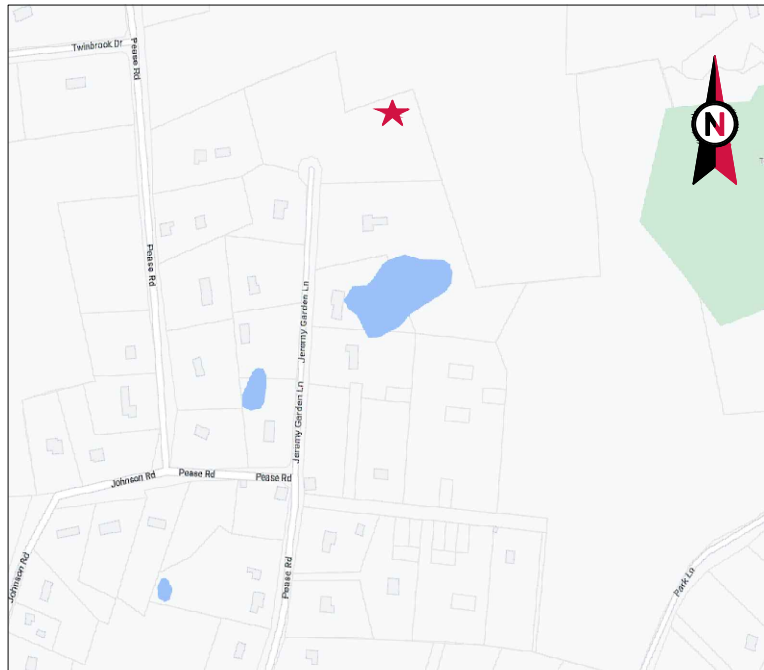


302480-2
SPLICE PLATE



302480-1
PLATE REINFORCEMENT

PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
302480-3	PL 1" X 4"	7'-0"		95.3#	100.0#
302480-2	PL 1" X 4"	3'-6 1/8"		47.8#	50.2#
302480-1	PL 1" X 4"	20'-0"		272.2#	285.8#
MATERIAL: A572 GR. 65		FINISH: GALVANIZED		HOLES: 1-3/16"Ø	



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: WOODBRIDGE CT 1
 ATC SITE NUMBER: 302480
 AT&T PACE NUMBERS: MRCTB054829/ MRCTB054841/
 MRCTB055568/ MRCTB054565/
 MRCTB054295/ MRCTB054683

AT&T SITE ID: CTL02010
 AT&T FA CODE:10034971
 AT&T SITE NAME: WOODBRIDGE-PEASE RD
 SITE ADDRESS: 77 PEASE ROAD
 WOODBRIDGE, CT 06525-2044



LOCATION MAP

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

AT&T CBAND & DODAMENDMENT PLAN

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX					
<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> <ol style="list-style-type: none"> INTERNATIONAL BUILDING CODE (IBC) NATIONAL ELECTRIC CODE (NEC) LOCAL BUILDING CODE CITY/COUNTY ORDINANCES 	<p><u>SITE ADDRESS:</u> 77 PEASE ROAD WOODBRIDGE, CT 06525-2044 COUNTY: NEW HAVEN</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.34144444 LONGITUDE: -72.9936 GROUND ELEVATION: 322' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:</p> <p><u>TOWER WORK:</u> REMOVE (6) ANTENNA(S) AND (3) RRH(S)</p> <p>INSTALL MOUNT MODIFICATIONS, (6) ANTENNA(S), (9) RRH(S), (2) DC-6 SQUID(S) AND (3) Y-CABLE(S)</p> <p>EXISTING (3) RRH(S), (1) DC-6 SQUID(S), (6) 1 5/8" COAX CABLE(S), (1) 3/8" RET CONTROL CABLE(S), (2) .405 CONDUIT(S), (2) 8 AWG 6 DC CABLE(S), (4) 6 AWG 6 DC CABLE(S) AND (1) .405 FIBER CABLE(S) TO REMAIN</p> <p><u>GROUND WORK:</u> REMOVE NONE</p> <p>INSTALL 6648+XCEDE</p> <p>EXISTING (1) 6601, (1) 5216, (1) 6630 AND (1) XMU TO REMAIN</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
	<p><u>PROJECT TEAM</u></p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> HUDSON DESIGN GROUP, LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845</p> <p><u>PROPERTY OWNER:</u> KENNETH W JOHNSON 77 PEASE ROAD WOODBRIDGE, CT 06525-2044</p> <p><u>APPLICANT:</u> AT&T MOBILITY</p>	<p><u>PROJECT NOTES</u></p> <ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. 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	A	04/05/22	AB	
				G-002	GENERAL NOTES	A	04/05/22	AB
				C-101	DETAILED SITE PLAN	A	04/05/22	AB
				C-201	TOWER ELEVATION	A	04/05/22	AB
<p><u>UTILITY COMPANIES</u></p> <p>POWER COMPANY: UNKNOWN PHONE: UNKNOWN</p> <p>TELEPHONE COMPANY: UNKNOWN PHONE: UNKNOWN</p>			E-501	GROUNDING DETAILS	A	04/05/22	AB	
			R-601	SUPPLEMENTAL				
			R-602	SUPPLEMENTAL				
			R-603	SUPPLEMENTAL				
			R-604	SUPPLEMENTAL				
				MOUNT MODIFICATION SHEETS				

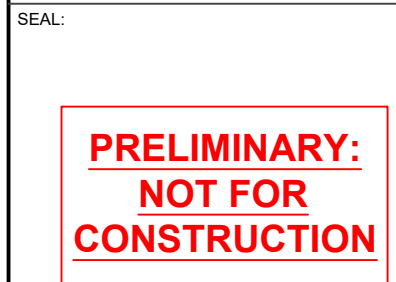
REV.	DESCRIPTION	BY	DATE
A	PRELIM	AB	04/05/22

ATC SITE NUMBER:
302480

ATC SITE NAME:
WOODBRIDGE CT 1

AT&T SITE NAME:
WOODBRIDGE-PEASE RD

SITE ADDRESS:
77 PEASE ROAD
WOODBRIDGE, CT 06525-2044



DATE DRAWN:	04/05/22
ATC JOB NO:	13756843_G5
CUSTOMER ID:	CTL02010
CUSTOMER #:	10034971

TITLE SHEET

SHEET NUMBER: G-001	REVISION: A
-------------------------------	-----------------------



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 (PPC)
 - 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 ANSIEIA/ITIA-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.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
 - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. 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.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE

- INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/4" 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.
 - H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
 - I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T- MOBILE PROJECT MANAGER IN WRITING

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 AND PROVIDE PRINTOUT OF THAT TEST.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - 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 RFS 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).

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

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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REV.	DESCRIPTION	BY	DATE
A	PRELIM	AB	04/05/22

ATC SITE NUMBER:
302480

ATC SITE NAME:
WOODBIDGE CT 1

AT&T SITE NAME:
WOODBIDGE-PEASE RD

SITE ADDRESS:
77 PEASE ROAD
WOODBIDGE,CT 06525-2044

SEAL:

PRELIMINARY:
NOT FOR
CONSTRUCTION



DATE DRAWN:	04/05/22
ATC JOB NO:	13756843_G5
CUSTOMER ID:	CTL02010
CUSTOMER #:	10034971

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: A
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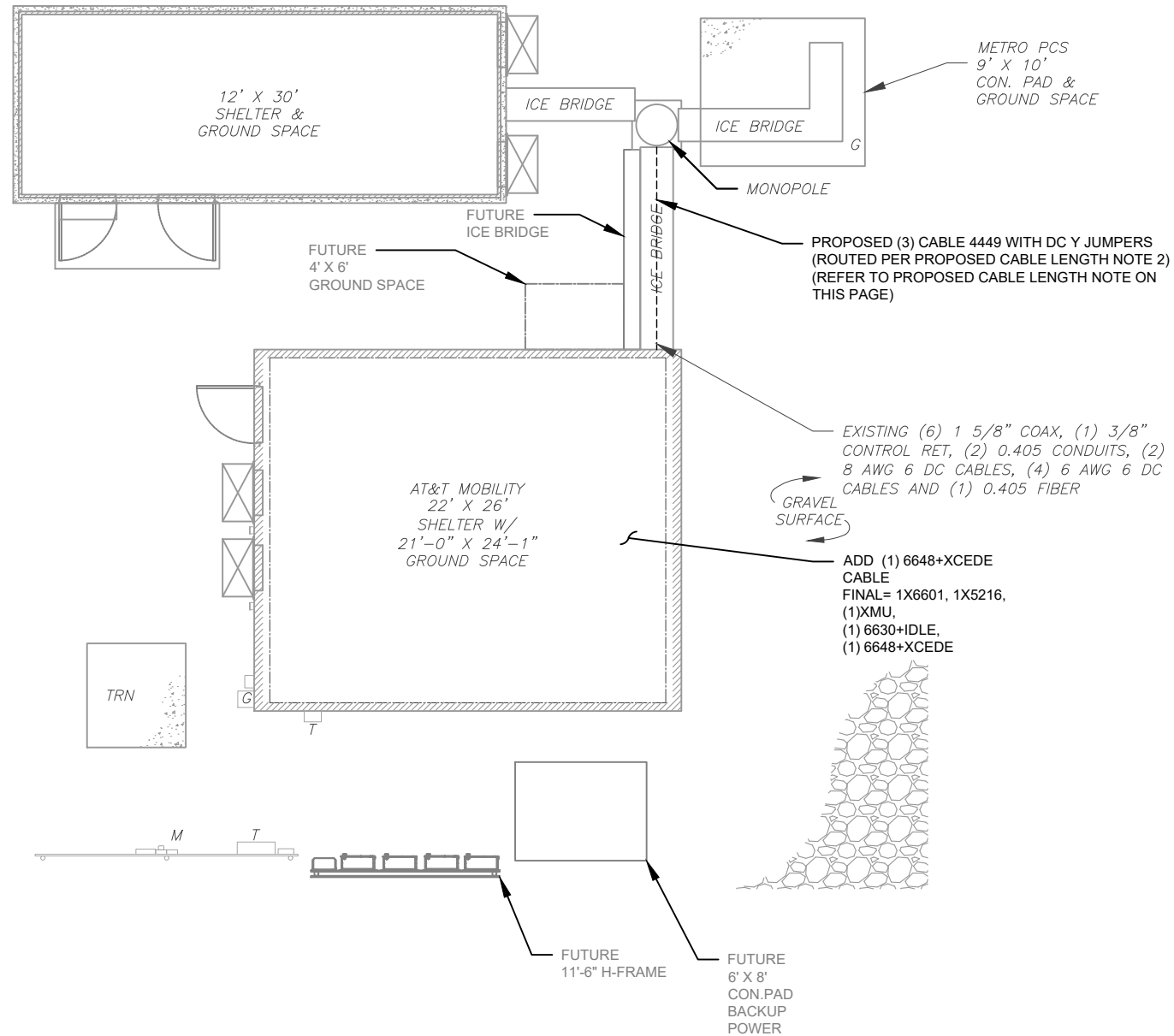
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SITE PLAN NOTES:

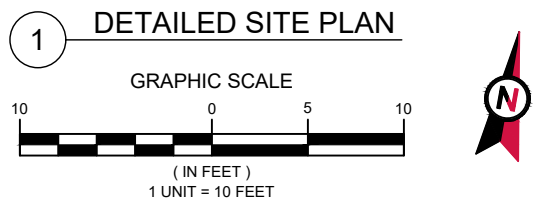
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE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

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



- PROPOSED CABLE LENGTH:**
1. ESTIMATED LENGTH OF PROPOSED CABLE IS **200'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.



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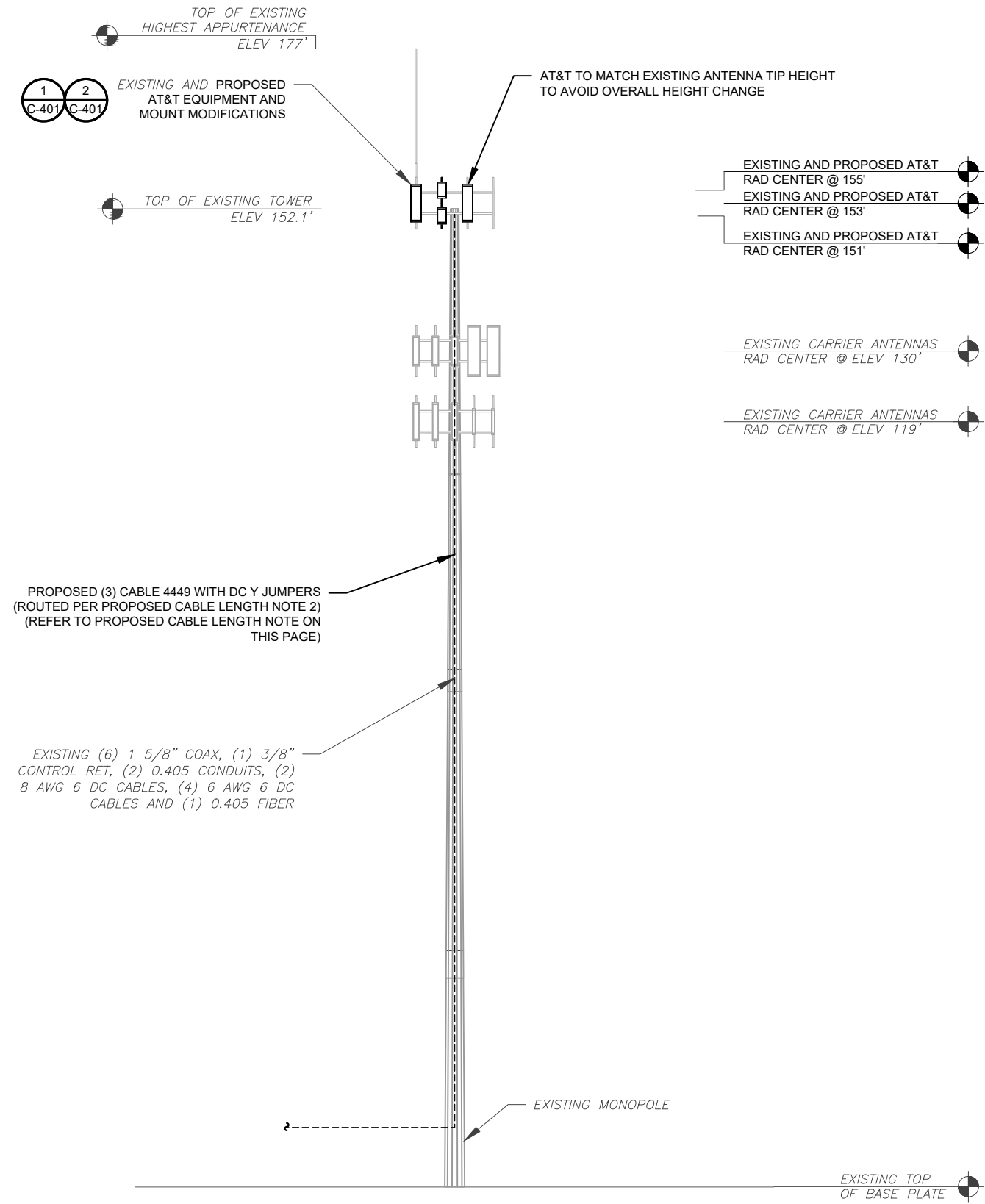
DETAILED SITE PLAN

SHEET NUMBER: C-101	REVISION: A
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PER MOUNT ANALYSIS COMPLETED BY B+T GRP, DATED 03/21/22, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. A MOUNT MODIFICATION DESIGN SHALL BE COMPLETED AND MODIFICATION MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



1 TOWER ELEVATION
SCALE: N.T.S.

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



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ATC SITE NUMBER:
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WOODBIDGE CT 1

AT&T SITE NAME:
WOODBIDGE-PEASE RD

SITE ADDRESS:
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WOODBIDGE, CT 06525-2044

SEAL:

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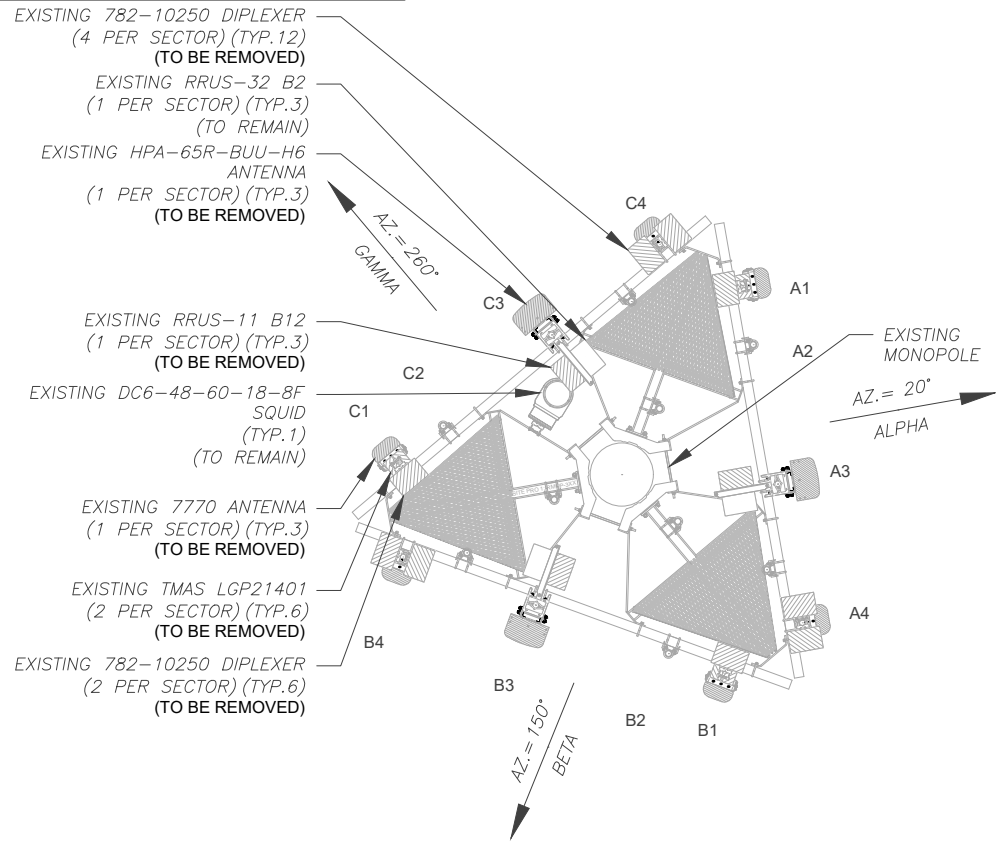
DATE DRAWN:	04/05/22
ATC JOB NO:	13756843_G5
CUSTOMER ID:	CTL02010
CUSTOMER #:	10034971

TOWER ELEVATION

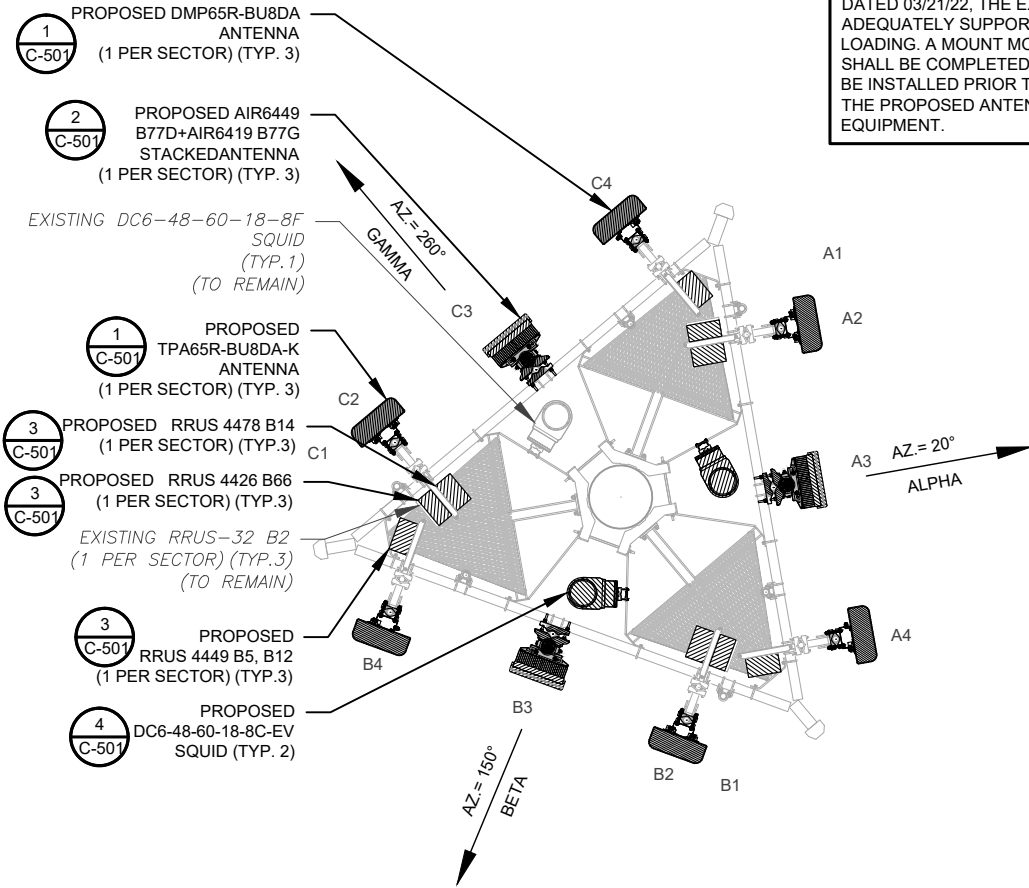
SHEET NUMBER: C-201	REVISION: A
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EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.



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



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

PER MOUNT ANALYSIS COMPLETED BY B+T GRP, DATED 03/21/22, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. A MOUNT MODIFICATION DESIGN SHALL BE COMPLETED AND MODIFICATION MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

PROPOSED RRUS MUST BE INSTALLED A MINIMUM OF 8" AWAY FROM ALL ANTENNAS

EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	153'	150°	A1	7770	-	RMV	782-10250 DIPLEXER LGP21401 TMA	RMV
		150°	A2	-	-	EMPTY	-	-
		20°	A3	HPA-65R-BUU-H6	700, 1900	RMV	RRUS-11 B12 RRUS-32 B2	RMV RMN
		150°	A4	7770	-	RMV	782-10250 DIPLEXER LGP21401 TMA	RMV
BETA	153'	260°	B1	7770	-	RMV	782-10250 DIPLEXER LGP21401 TMA	RMV
		150°	B2	-	-	EMPTY	-	-
		150°	B3	HPA-65R-BUU-H6	700, 1900	RMV	RRUS-11 B12 RRUS-32 B2	RMV RMN
		260°	B4	7770	-	RMV	782-10250 DIPLEXER	RMV
GAMMA	153'	20°	C1	7770	-	RMV	782-10250 DIPLEXER LGP21401 TMA	RMV
		260°	C2	-	-	EMPTY	-	-
		260°	C3	HPA-65R-BUU-H6	700, 1900	RMV	RRUS-11 B12 RRUS-32 B2	RMV RMN
		20°	C4	7770	-	RMV	782-10250 DIPLEXER	RMV

- NOTES
- CONFIRM WITH AT&T REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP 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)

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

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

3 EQUIPMENT SCHEDULES

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	153'	20°	A1	-	-	EMPTY	-	-
			A2	TPA65R-BU6DA-K	LTE B14 / PCS /AWS	ADD	RRU 4426 B66 RRU 4478 B14 RRUS-32 B2	ADD ADD RMN
			A3UP A3DN	AIR6449 B77D AIR6419 B77G	DOD + CBAND	ADD	-	-
			A4	DMP65R-BU6DA	LTE 700 BC / 850	ADD	RRU 4449 B5/B12	ADD
BETA	153'	150°	B1	-	-	EMPTY	-	-
			B2	TPA65R-BU6DA-K	LTE B14 / PCS /AWS	ADD	RRU 4426 B66 RRU 4478 B14 RRUS-32 B2	ADD ADD RMN
			B3UP B3DN	AIR6449 B77D AIR6419 B77G	DOD + CBAND	ADD	-	-
			B4	DMP65R-BU6DA	LTE 700 BC / 850	ADD	RRU 4449 B5/B12	ADD
GAMMA	153'	260°	C1	-	-	EMPTY	-	-
			C2	TPA65R-BU6DA-K	LTE B14 / PCS /AWS	ADD	RRU 4426 B66 RRU 4478 B14 RRUS-32 B2	ADD ADD RMN
			C3UP C3DN	AIR6449 B77D AIR6419 B77G	DOD + CBAND	ADD	-	-
			C4	DMP65R-BU6DA	LTE 700 BC / 850	ADD	RRU 4449 B5/B12	ADD

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EXISTING FIBER DISTRIBUTION/SQUID			EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	CONDUITS	DC	FIBER	STATUS
(1) DC6-48-60-18-8F	RMN	(6) 1 5/8"	(2) .405	(2) 8 AWG 6 (1) 3/8" RET CONTROL CABLE	(1) .405	RMN
-	-	-	-	-	-	-

FINAL FIBER DISTRIBUTION/SQUID			FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	CONDUITS	DC	FIBER	STATUS
(1) DC6-48-60-18-8F	RMN	(6) 1 5/8"	(2) .405	(2) 8 AWG 6 (1) 3/8" RET CONTROL CABLE	(1) .405	RMN
(2) DC6-48-60-18-8C-EV	ADD	-	-	-	-	-



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ATC SITE NUMBER:
302480

ATC SITE NAME:
WOODBRIDGE CT 1

AT&T SITE NAME:
WOODBRIDGE-PEASE RD

SITE ADDRESS:
77 PEASE ROAD
WOODBRIDGE, CT 06525-2044

SEAL:

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DATE DRAWN:	04/05/22
ATC JOB NO:	13756843_G5
CUSTOMER ID:	CTL02010
CUSTOMER #:	10034971

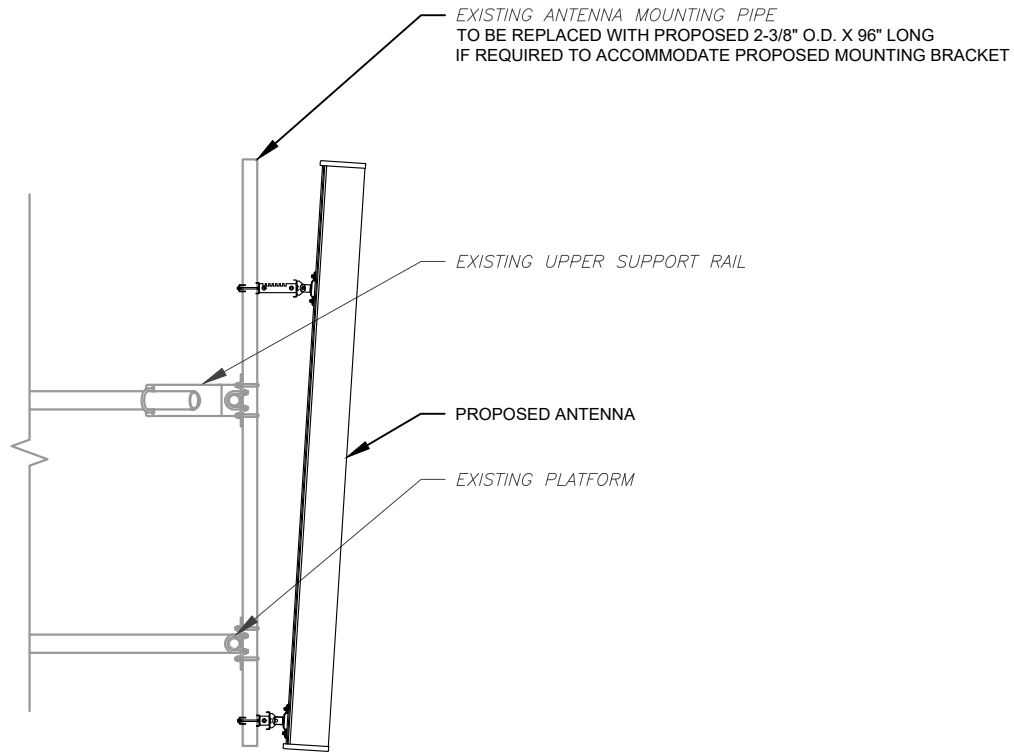
RF SCHEDULE AND
ANTENNA INSTALLATION

SHEET NUMBER:
C-401

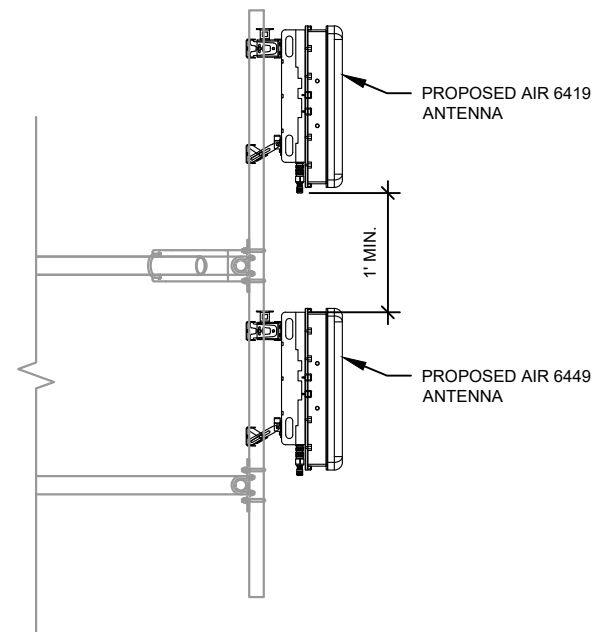
REVISION:
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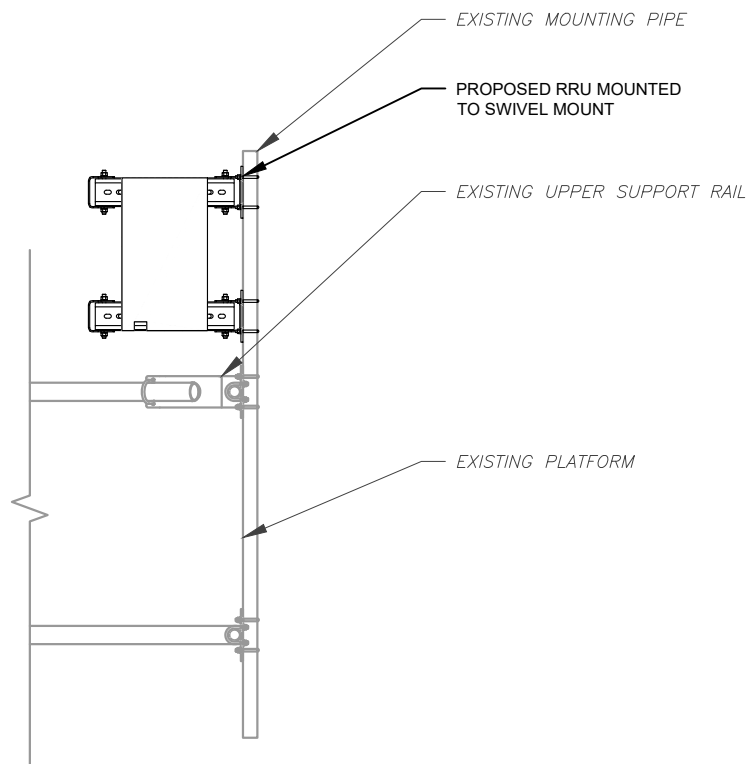
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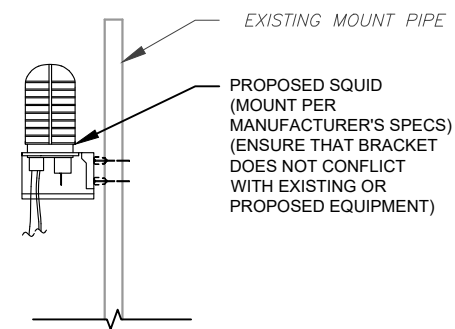
1 ANTENNA DETAIL
SCALE: N.T.S.



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



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



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



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SEAL:

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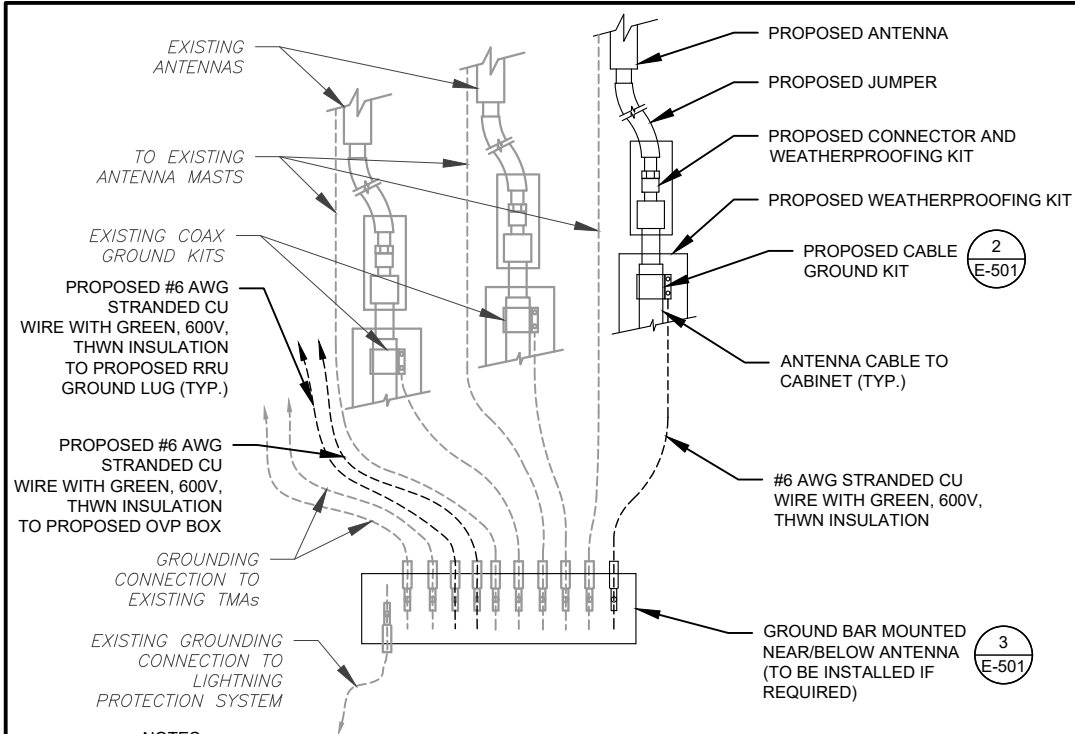


DATE DRAWN:	04/05/22
ATC JOB NO:	13756843_G5
CUSTOMER ID:	CTL02010
CUSTOMER #:	10034971

CONSTRUCTION
DETAILS

SHEET NUMBER: C-501	REVISION: A
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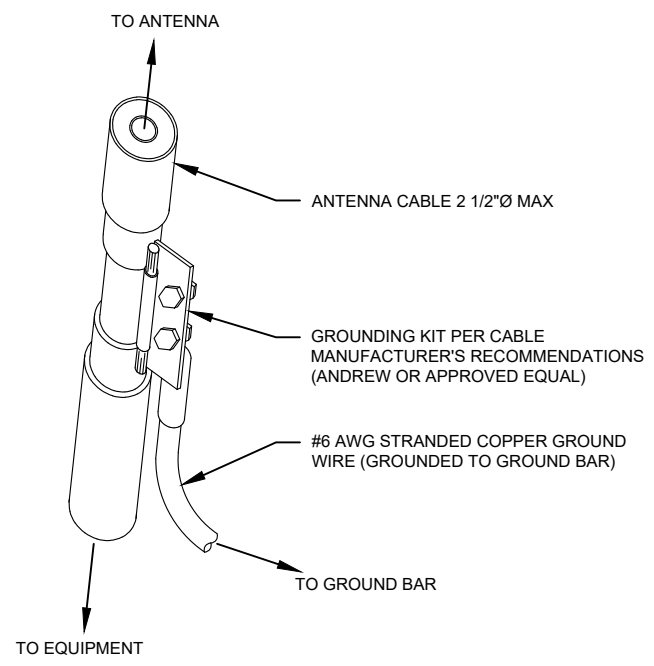
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NOTES:

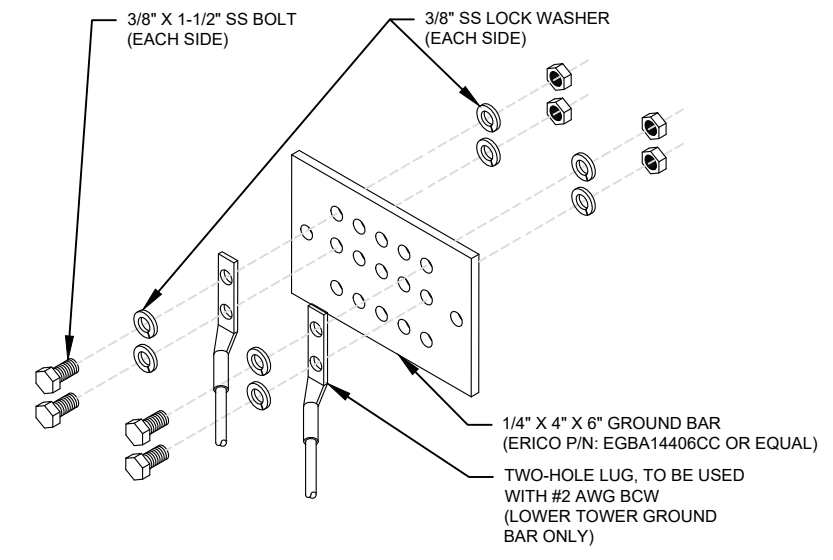
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING STANDARDS,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

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



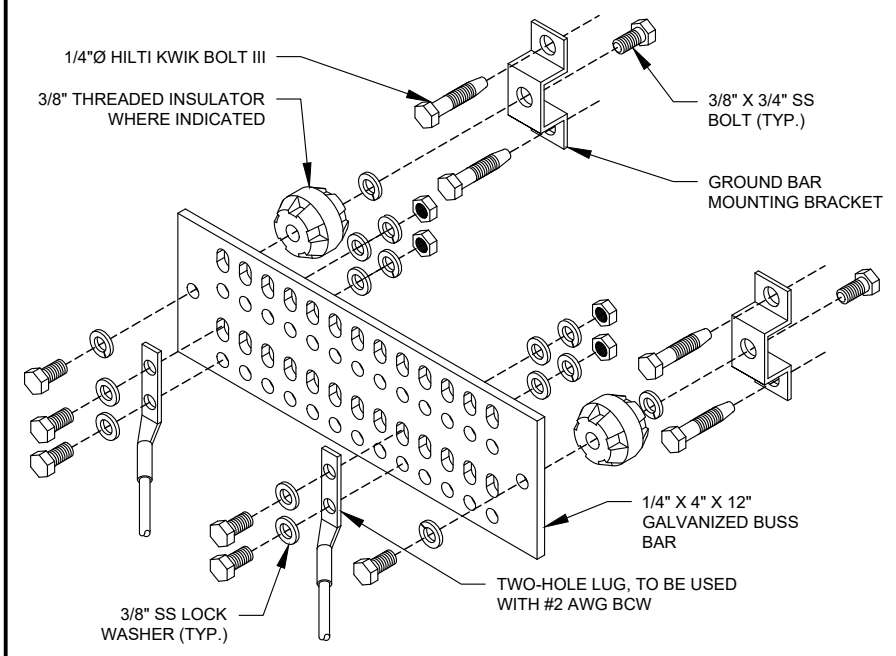
- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

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



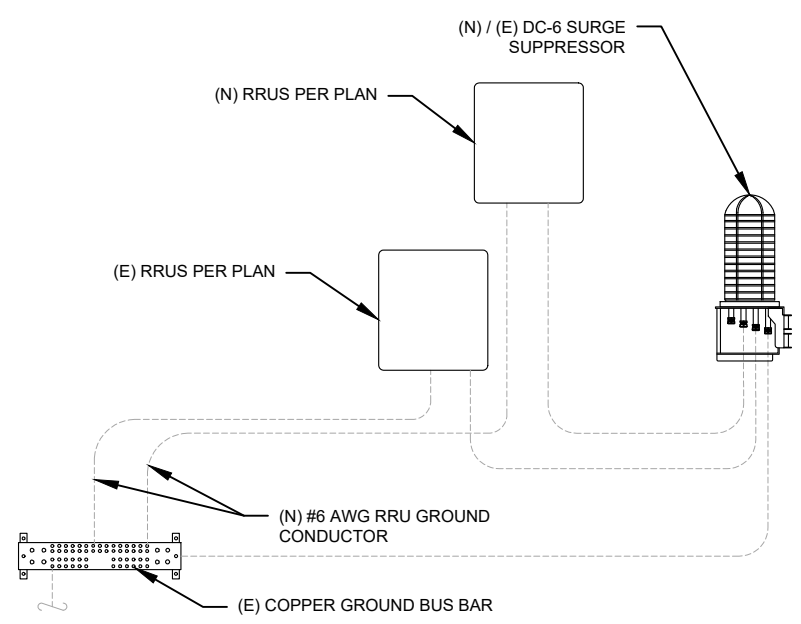
- GROUND BAR NOTES:**
1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

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

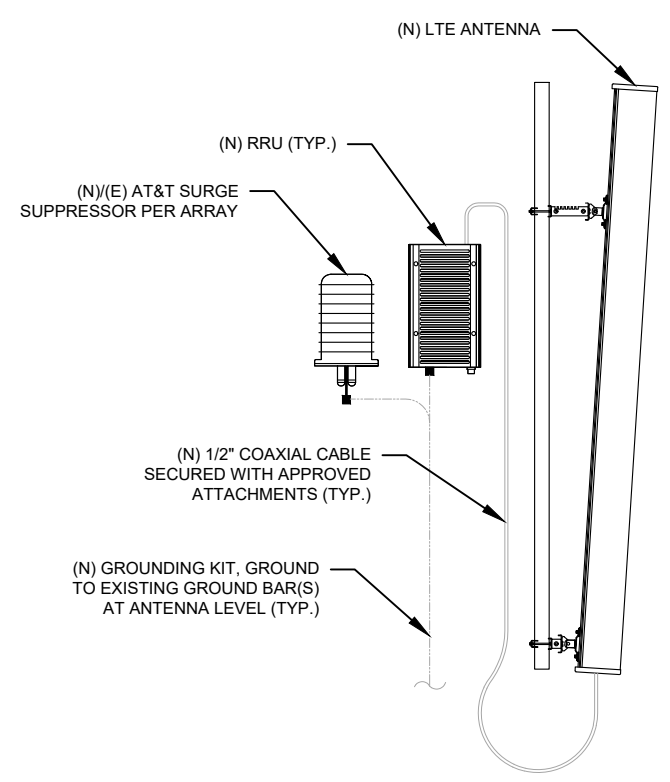


- GROUND BAR NOTES:**
1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

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



5 RRU GROUNDING
SCALE: N.T.S.



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



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WOODBIDGE-PEASE RD

SITE ADDRESS:
77 PEASE ROAD
WOODBIDGE, CT 06525-2044

SEAL:

PRELIMINARY:
NOT FOR
CONSTRUCTION

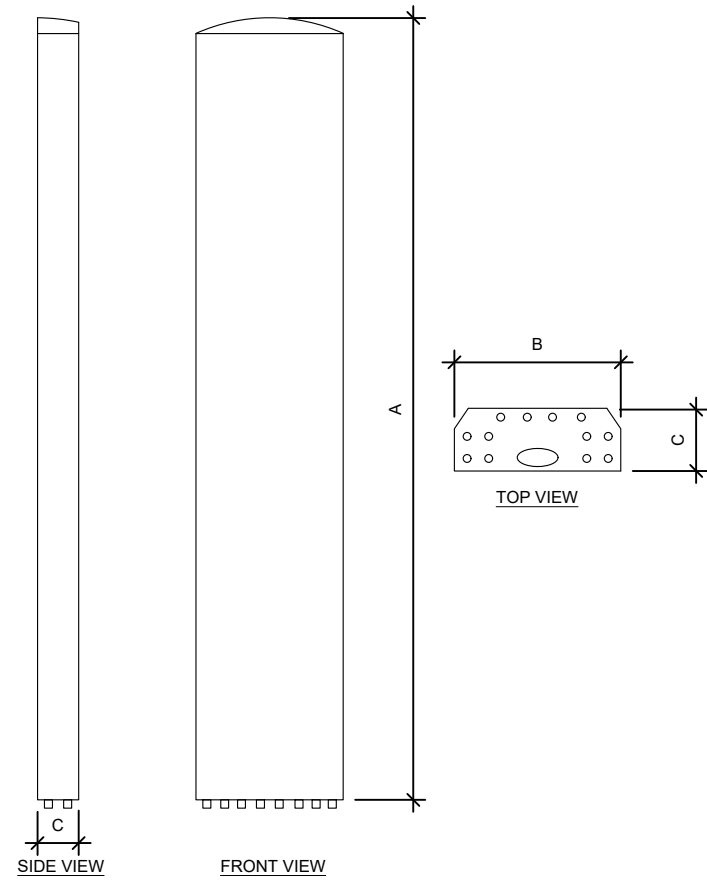


DATE DRAWN:	04/05/22
ATC JOB NO:	13756843_G5
CUSTOMER ID:	CTL02010
CUSTOMER #:	10034971

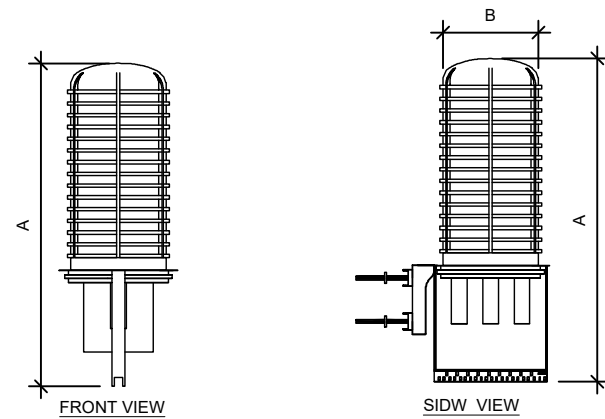
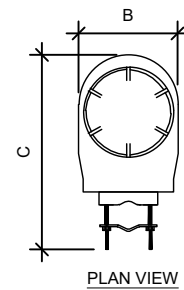
GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: A
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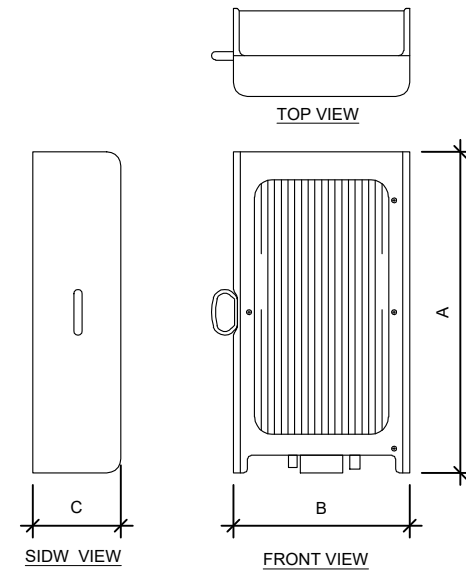
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
TPA65R-BU8D	71.1"	25.5"	7.6"	79.6
Air 6449 B77D	30.4"	15.9"	8.1"	81.6
AIR 6419 B77G	28.3"	16.1"	7.9"	66.1
DMP65R-BU8D	96"	20.7"	7.7"	95.7



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC6-48-60-18-8C-EV	31.4"	18.3"	10.2"	16.0



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4478 B14	18.1"	13.4"	8.3"	59.4
4449 B5, B12	17.9"	13.2"	9.4"	71.0
4426 B66	15"	13.2"	5.8"	48.4

1 EQUIPMENT SPECIFICATIONS
SCALE: N.T.S.

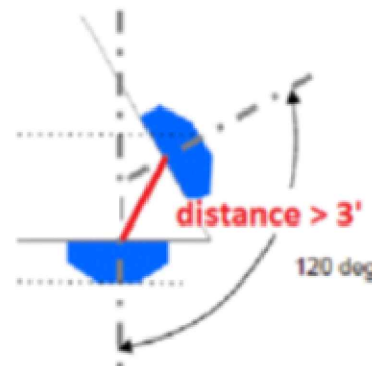
SUPPLEMENTAL

SHEET NUMBER:
R-601

REVISION:
A

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

- ❑ Horizontal separation (side to side of antenna): $\geq 3'$
- ❑ Vertical separation (between the tips of the antennas): $> 3'$
- ❑ Inter-sector separation: $>4'$ between the center of the antenna backplanes.



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

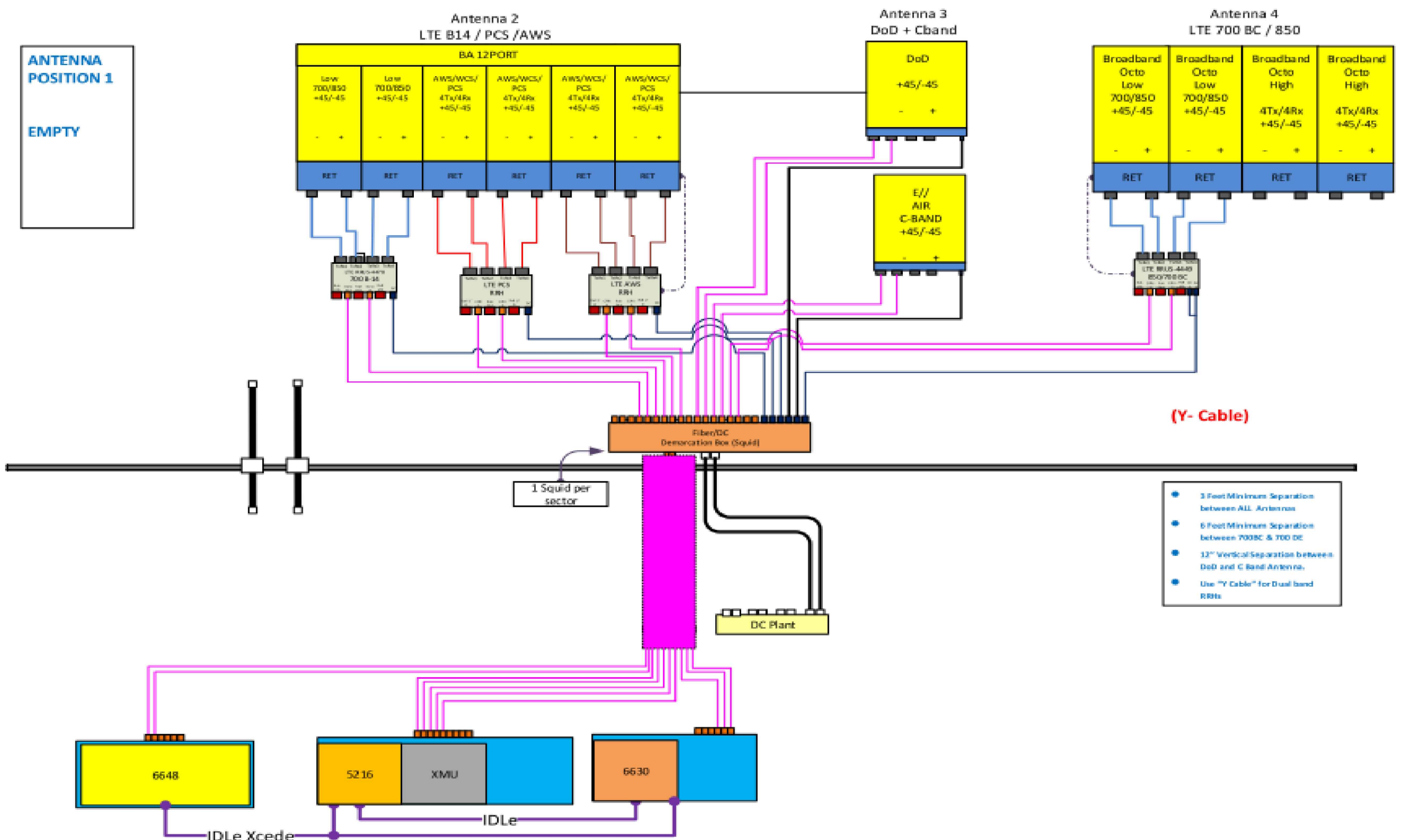


NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:
R-602

REVISION:
A



- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

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&CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.



This report was prepared for American Tower Corporation by



Antenna Mount Analysis Report

ATC Site Name : Woodbridge CT 1
ATC Site Number : 302480
Engineering Number : 13756843_C8_01
Mount Elevation : 153 ft.
Carrier : AT&T Mobility
Carrier Site Name : MRCTB054683
Carrier Site Number : CTL02010
Site Location : 77 Pease Road
 Woodbridge, CT 06525-2044
 41.3414°, -72.9936°
County : New Haven
Date : March 21, 2022
Max Usage : >200%
Result : Fail

Prepared By:
 Erika Ruiz
 Project Engineer

Reviewed By:



COA: PEC.0001564 Expires: 02/01/2023



Eng. Number 13756843_C8_01
 March 21, 2022
 Page 1

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 155 ft.

Supporting Documents

RFDS	RFDS dated January 27, 2022
Photos	Site photos from 2020

Analysis

This antenna mount was analyzed using RISA-3D v19.0.4 analysis software

Basic Wind Speed:	119 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1.0" radical ice concurrent
Codes:	ANSI/TIA-222-H
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height:	0 ft
Crest Length:	0 ft
Spectral Response:	S _s = 0.2, S ₁ = 0.054
Site Class:	D - Stiff Soil
Live Loads:	L _m = 500 lbs, L _v = 250 lbs

Conclusion

Based on the analysis results, the antenna mount does not meet the requirements per the applicable codes listed above. Modifications will be designed in a subsequent service to address the below failures:

1. Main Horizontals
2. Diagonals
3. Support Tubes
4. Verticals
5. Omni Pipe

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.

SUPPLEMENTAL

SHEET NUMBER: R-604	REVISION: A
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Tracking Number:

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Latest Update

Your item was delivered to the front desk, reception area, or mail room at 2:24 pm on October 24, 2022 in WOODBRIDGE, CT 06525.

Delivered

Delivered, Front Desk/Reception/Mail Room

WOODBRIDGE, CT 06525

October 24, 2022, 2:24 pm

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Delivered

Delivered, Front Desk/Reception/Mail Room

WOODBRIDGE, CT 06525

October 24, 2022, 2:24 pm

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Latest Update

Your item was delivered in or at the mailbox at 12:14 pm on October 24, 2022 in WOODBRIDGE, CT 06525.

Delivered

Delivered, In/At Mailbox

WOODBIDGE, CT 06525

October 24, 2022, 12:14 pm

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Tracking Number:

9505510391972294737053

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Latest Update

Your item was delivered to the front desk, reception area, or mail room at 12:15 pm on October 24, 2022 in WOBURN, MA 01801.

Delivered

Delivered, Front Desk/Reception/Mail Room

WOBURN, MA 01801

October 24, 2022, 12:15 pm

[See All Tracking History](#)

See More 

Remove 

Feedback

Track Another Package

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October 20, 2022

Kenneth W. Johnson
77 Pease Road
Woodbridge, CT 06525

Re: Notice of Exempt Modification – AT&T Mobility Site # 13756843
AT&T Wireless Telecommunications Facility @ 77 Pease Road, Woodbridge, CT 06525

Dear Property Owner,

AT&T Mobility (“AT&T”) is proposing to modify a wireless telecommunications facility on an existing monopole tower at 77 Pease Road, Woodbridge, CT 06525 (Latitude: 41.34144444, Longitude: -72.9936). The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Kenneth W. Johnson. The tower was approved by the Council in Docket Number 44, dated July 24, 1984. AT&T was most recently approved modification was EM-AT &T-167-171229 dated January 24, 2018.

AT&T proposes to remove six (6) antennas and three (3) RRHs and install mount modifications, six (6) antennas, nine (9) RRHs, two (2) DC squids, and three (3) Y cables.

This letter is intended to serve as the required notice to the property 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 RCSA 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 circular blue stamp or watermark.

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

Enclosures



October 20, 2022

Kristine Sullivan, Acting Zoning Enforcement Office
Woodbridge Town Hall
11 Meetinghouse Lane,
Woodbridge, CT 06525

Re: Notice of Exempt Modification – AT&T Mobility Site # 13756843
AT&T Wireless Telecommunications Facility @ 77 Pease Road, Woodbridge, CT 06525

Dear Ms. Sullivan,

AT&T Mobility (“AT&T”) is proposing to modify a wireless telecommunications facility on an existing monopole tower at 77 Pease Road, Woodbridge, CT 06525 (Latitude: 41.34144444, Longitude: -72.9936). The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Kenneth W. Johnson. The tower was approved by the Council in Docket Number 44, dated July 24, 1984. AT&T was most recently approved modification was EM-AT &T-167-171229 dated January 24, 2018.

AT&T proposes to remove six (6) antennas and three (3) RRHs and install mount modifications, six (6) antennas, nine (9) RRHs, two (2) DC squids, and three (3) Y cables.

This letter is intended to serve as the required notice to the municipal planning agency. 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 circular blue stamp or seal.

Jack Andrews
Zoning Manager, Centerline Communications
443-677-0144

Enclosures



October 20, 2022

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

Re: Notice of Exempt Modification – AT&T Mobility Site # 13756843
AT&T Wireless Telecommunications Facility @ 77 Pease Road, Woodbridge, CT 06525

Dear Mr. Paynter:

AT&T Mobility (“AT&T”) is proposing to modify a wireless telecommunications facility on an existing monopole tower at 77 Pease Road, Woodbridge, CT 06525 (Latitude: 41.34144444, Longitude: -72.9936). The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Kenneth W. Johnson. The tower was approved by the Council in Docket Number 44, dated July 24, 1984. AT&T was most recently approved modification was EM-AT &T-167-171229 dated January 24, 2018.

AT&T proposes to remove six (6) antennas and three (3) RRHs and install mount modifications six (6) antennas, nine (9) RRHs, two (2) DC squids, and three (3) Y cables.

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 RCSA 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 circular blue stamp or watermark.

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

Enclosures



October 20, 2022

First Selectwoman Beth Heller
Woodbridge Town Hall
11 Meetinghouse Lane
Woodbridge, CT 06525

Re: Notice of Exempt Modification – AT&T Mobility Site # 13756843
AT&T Wireless Telecommunications Facility @ 77 Pease Road, Woodbridge, CT 06525

Dear First Selectwoman Heller,

AT&T Mobility (“AT&T”) is proposing to modify a wireless telecommunications facility on an existing monopole tower at 77 Pease Road, Woodbridge, CT 06525 (Latitude: 41.34144444, Longitude: -72.9936). The monopole tower is owned and operated by American Tower Corporation. The subject property is owned by Kenneth W. Johnson. The tower was approved by the Council in Docket Number 44, dated July 24, 1984. AT&T was most recently approved modification was EM-AT &T-167-171229 dated January 24, 2018.

AT&T proposes to remove six (6) antennas and three (3) RRHs and install mount modifications, six (6) antennas, nine (9) RRHs, two (2) DC squids, and three (3) Y cables.

This letter is intended to serve as the required notice to the chief elected official of the municipality. 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 RCSA 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 blue ink handwritten signature of Jack Andrews, consisting of a stylized 'J' and 'A'.

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

Enclosures