NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Northeast Site Solutions
Denise Sabo
4 Angela's Way, Burlington CT 06013
203-435-3640
denise@northeastsitesolutions.com

April 29 ,2022

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Exempt Modification Application
128 Mather Street, Wilton, CT 06897
Latitude: 41.238333
Longitude: -73.42444
Site #: 806353_Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 128 Mather Street, Wilton, CT 06897. Verizon Wireless currently maintains twelve (12) antennas at the 162-foot level of the existing 180-foot tower. The property is owned by the Town of Wilton and the tower is owned by Crown Castle. Verizon now intends to install three (3) antennas. The new antennas would be installed at the 162-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and 5G capable.

Verizon Planned Modifications:

Remove: None

Remove and Replace: None

Install New:
(3) Samsung MT6407-77A Antennas

Existing to Remain:
(6) COMMSCOPE Antennas
(6) RFS Antennas
(3) Samsung B2/B66A RRH
(3) Samsung B5/B13 RRH
(3) Samsung CBRS RRH
(1) RFS OVP
(6) Coax 1-5/8"
(1) Hybrid Line 1-5/8"

The facility was approved by the Connecticut Siting Council, Docket No. 94, on May 3, 1988. Please see attached.

NORTHEAST SITE SOLUTIONS

Turnkey Wireless Development

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies§ 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to Lynne Vanderslice, First Selectwoman and Michael Wrinn, Director of Planning & Land Use for the Town of Wilton. A copy is also being sent to the tower owner and property owner.

The planned modifications to the facility fall 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 the 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 replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Verizon Wireless respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Denise Sabo
Mobile: 203-435-3640
Fax: 413-521-0558
Office: 4 Angela's Way, Burlington CT 06013
E-mail: denise@northeastsitesolutions.com

NORTHEAST SITE SOLUTIONS

Turnkey Wireless Development

Attachments

Cc: Lynne Vanderslice, First Selectwoman & Property Owner
Town Hall
238 Danbury Road
Wilton, CT 06897

Michael Wrinn, Director of Planning & Land Use
Town Annex
238 Danbury Road
Wilton, CT 06897

Crown Castle – Tower Owner

Exhibit A

Original Facility Approval

DOCKET NO. 94 - AN APPLICATION OF METRO MOBILE CTS OF FAIRFIELD COUNTY, INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR CELLULAR TELEPHONE ANTENNAS AND ASSOCIATED EQUIPMENT IN THE TOWN OF WILTON, CONNECTICUT.	:	Connecticut Siting Council May 3, 1988

DECISION AND ORDER

Pursuant to the foregoing opinion, the Connecticut Siting Council finds that the effects associated with the construction and operation of a cellular monopole structure at the alternative Mather Street site, including effects on the natural environment, ecological balance, public health and safety, scenic, historic and recreational values, forests and parks, air and water purity and fish and wildlife, are not significant either alone or cumulatively with other effects, are not in conflict with the policies of the state concerning such effects, and are not sufficient reason to deny the application, and therefore, directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS) be issued to Metro Mobile CTS of Fairfield County, Inc. (Metro Mobile) for the construction, operation, and maintenance of a cellular telephone tower site and associated equipment at the "Wilton-D/AA" site on Mather Street in Wilton, Connecticut.

The proposed "D-Wilton" site on Richdale Drive and alternative "D/A Wilton" site on Quail Ridge Road are hereby denied.

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

1. The tower shall be constructed as a monopole or lattice tower, as determined by the Council in approving the development and management plan, and be no taller than necessary to provide the proposed service, and in no event shall exceed a total height of 193 feet, including antennas and associated equipment.

2. The facility shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations.

3. Unless necessary to comply with condition number two, above, no lights shall be installed on this tower.

4. The Certificate Holder shall prepare a development and management (d&m) plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The d&m plan shall provide monopole and lattice tower foundation design specifications and plans for permanent evergreen screening around the outside perimeter of the eight-foot chain link fence which will surround the site.

5. The Certificate Holder shall provide the Council with the results of additional subsurface reconnaissance at the proposed site prior to the commencement of any construction at this site.

6. The Certificate Holder or its successor shall notify the Council if and when directional antennas or any equipment other than that listed in this application are added to this facility.

7. The Certificate Holder or its successor shall permit public or private entities to share space on the tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

8. If this facility does not provide, or permanently ceases to provide, cellular service following the completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.

9. The Certificate Holder shall comply with any future radio frequency (RF) standards promulated by state or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted in this Decision and Order shall be brought into compliance with such standards.

10. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the issuance of this Decision and Order, or within three years of the completion of any appeal taken in this Decision and Order.

Pursuant to Section 16-50p, we hereby direct that a copy of the Decision and Order be served on each person listed below. A notice of issuance shall be published in the Norwalk Hour and the Wilton Bulletin.

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

The parties or intervenors to this proceeding are:

Metro Mobile CTS of Fairfield County, Inc. (Party)
50 Rockland Road
South Norwalk, CT 06854
Attn: Michael Riley

Howard L. Slater, Esq. (Its Attorney)
Jennifer Young Gaudet, Esq.
Byrne, Slater, Sandler, Shulman & Rouse, P.C.
330 Main Street
Hartford, CT 06103

Fleischman and Walsh, P.C. (Representative)
1725 N. Street, N.W.
Washington, D.C. 20036
Attn: Richard Rubin, Esq.

PEACE, Inc. (Party)

Ann Caggiano (Representative)
President
PEACE, Inc.
33 Honey Hill Trail
Wilton, CT 06897

Town of Wilton (Party)

Edward C. Desmond (Representative)
First Selectman
Town of Wilton
Town Hall
238 Danbury Road
Wilton, CT 06897

Joseph C. Lee, Esq. (Its Attorney)
Alice A. Bruno, Esq.
Tyler Cooper & Alcorn
205 Church Street
P.O. Box 1936
New Haven, CT 06509

Margaret Doheny (Party)
21 Richdale Drive
Wilton, CT 06897

SNET Cellular, Inc. (Intervenor)

Donald R. Chapman, Vice President (Representative)
Operations
SNET Cellular, Inc.
555 Long Wharf Drive
New Haven, CT 06511

Peter J. Tyrrell (Its Attorney)
Senior Attorney
SNET Cellular, Inc.
227 Church Street
Room 1021
New Haven, CT 06506

Ogden Bigelow (Intervenor)
25 Hidden Lake Road
Wilton, CT 06897

John Jordon (Party)
32 Mayapple Road
Wilton, CT 06897

Veronica Tella (Party)
41 Honey Hill Trail
Wilton, CT 06897

Betsy Mitchell (Party)
125 Catalpa Road
Wilton, CT 06897
(SERVICE WAIVED)

1390E

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket 94 or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 3rd day of May, 1988.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Yes
Commissioner Peter Boucher Designee: Roland Miller	Yes
Commissioner Leslie Carothers Designee: Brian Emerick	Yes
Mortimer A. Gelston	Yes
James G. Horsfall	Yes
William H. Smith	Yes
Colin C. Tait	Absent

1395E-2

Exhibit B

Property Card

Town of Wilton, CT

Property Listing Report

Map Block Lot **23-23** Account **006497**

Property Information

Property Location	MATHER ST
Owner	WILTON TOWN OF
Co-Owner	
Mailing Address	238 DANBURY RD WILTON CT 06897
Land Use	21V Ex Com MDL-00
Land Class	E
Zoning Code	R-2
Census Tract	
Sub Lot	

Neighborhood	4000
Acreage	74.12
Utilities	
Lot Setting/Desc	Rolling
Survey Map	
Foundation	3

Photo

Sketch

Primary Construction Details

Year Built	0
Stories	
Building Style	
Building Use	
Building Condition	
Floors	Dirt/None
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Gable/Hip
Roof Cover	Enam Mtl Shing

Exterior Walls	Pre-finsh Metl
Interior Walls	Drywall
Heating Type	None
Heating Fuel	None
AC Type	None
Gross Bldg Area	1200
Total Living Area	1200

Report Created On 6/22/2020

Town of Wilton, CT

Property Listing Report | Map Block Lot **23-23** | Account **006497**

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	50000	35000
Extras	0	0
Outbuildings	0	0
Land	10254200	7177940
Total	10304200	7212940

Outbuilding and Extra Items

Type	Description

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	1200	1200
Total Area		0

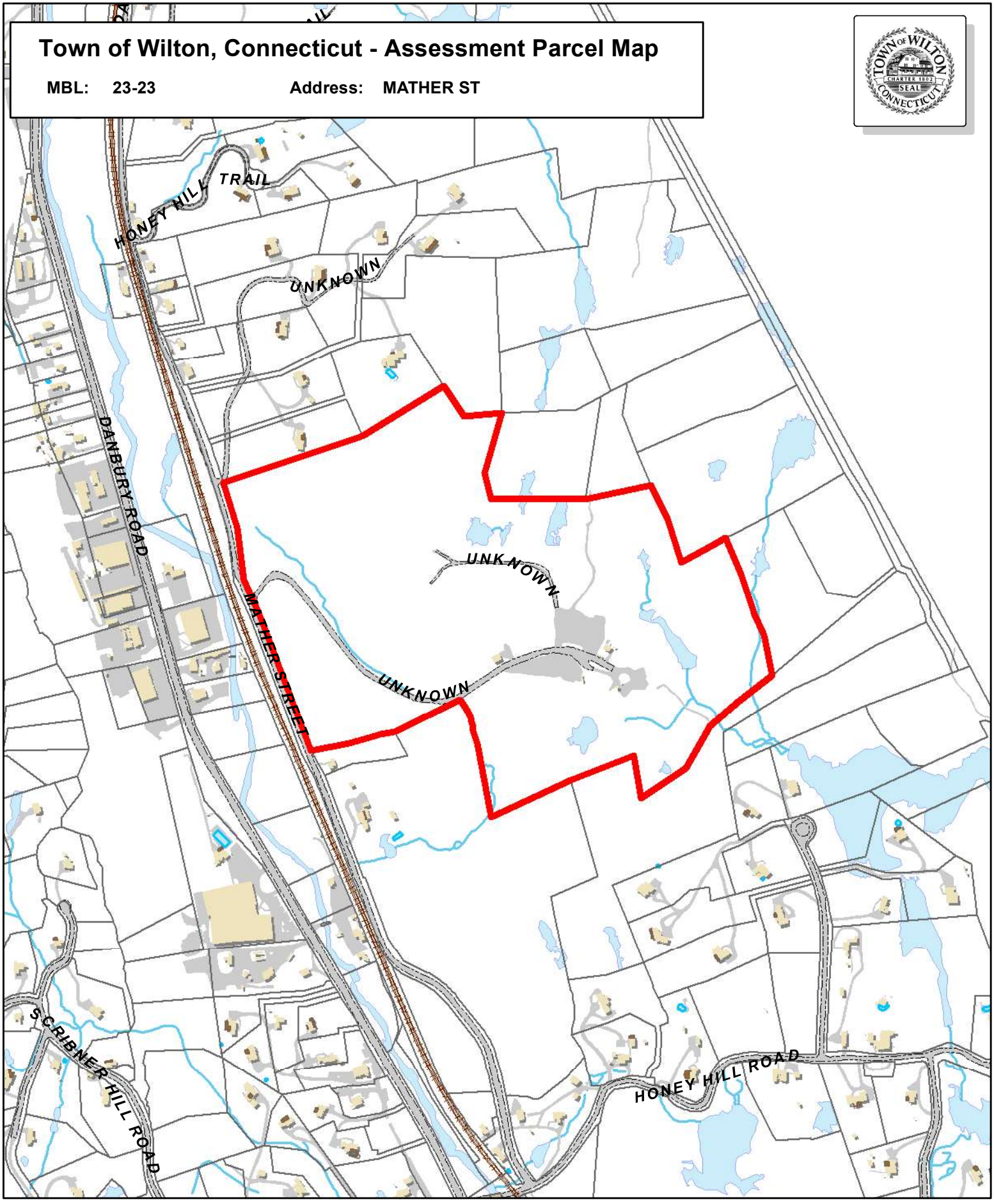
Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
WILTON TOWN OF	1151/0195	2/2/1999	0
	0112/0179	5/1/1965	0

Report Created On **6/22/2020**

Town of Wilton, Connecticut - Assessment Parcel Map

MBL: 23-23 **Address:** MATHER ST



Approximate Scale:

1 inch = 600 feet

Disclaimer:
This map is for informational purposes only.
All information is subject to verification by any user.
The Town of Wilton and its mapping contractors
assume no legal responsibility for the information contained herein.

Map Grand List Date: Oct 2017

0 350 700 1,050 Feet

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 325157
VERIZON SITE NAME: WILTON CT
SITE TYPE: SELF SUPPORT
TOWER HEIGHT: 180'-0"

BUSINESS UNIT #: 806353
SITE ADDRESS: 128 MATHER STREET WILTON, CT 06897
COUNTY: FAIRFIELD
JURISDICTION: TOWN OF WILTON

VERIZON 5G L-SUB6 - CARRIER ADD / FUZE ID: 16272216

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	BRG 124 943066
SITE ADDRESS:	128 MATHER STREET WILTON, CT 06897
COUNTY:	FAIRFIELD
MAP/PARCEL #:	23 - 23
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 14' 18.70" N
LONGITUDE:	73° 25' 26.90" W
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	431'-0" ± AMSL
CURRENT ZONING:	R-2
JURISDICTION:	TOWN OF WILTON
OCCUPANCY CLASSIFICATION:	----
TYPE OF CONSTRUCTION:	----
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TOWN OF WILTON 238 DANBURY RD WILTON, CT 06897
TOWER OWNER:	CROWN CASTLE MU LLC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	CONNECTICUT LIGHT AND POWER CO (800) 286-2000
TELCO PROVIDER:	CROWN CASTLE FIBER (855) 913-4237

PROJECT TEAM

A&E FIRM:	TECTONIC ENGINEERING AND SURVEYING CONSULTANTS P.C. 1279 ROUTE 300 NEWBURGH, NY 12550 PHONE: (845) 567-6656
CROWN CASTLE USA INC. DISTRICT CONTACTS:	1200 MACARTHUR BLVD, SUITE 200 MAHWAH, NJ 07430 ---- - PROJECT MANAGER ---- ---- - CONSTRUCTION MANAGER ----

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11x17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

APPROVALS

SIGNATURE	DATE

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR PROJECT NUMBER	10039584
VzW LOCATION CODE (PSLC)	467241

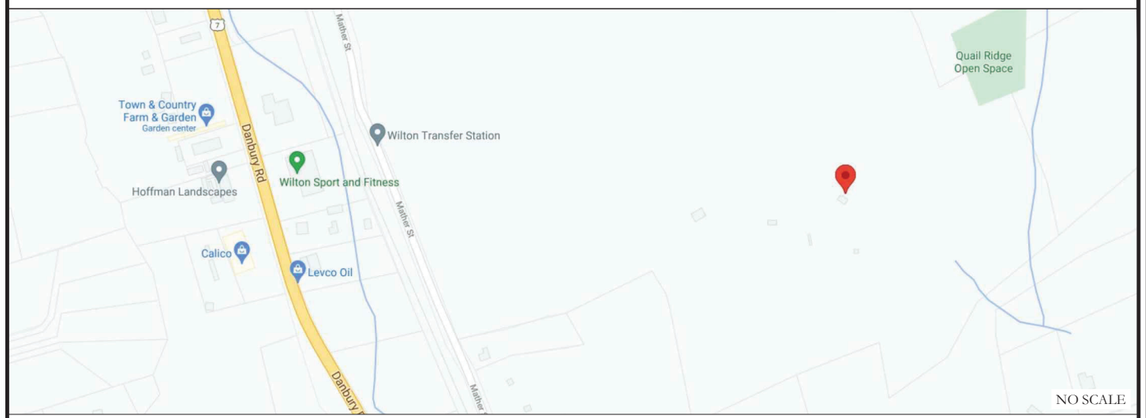
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED	N

VzW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS

LOCATION MAP



DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (180 WASHINGTON VALLEY RD, BEDMINSTER, NJ 07921)
HEAD NORTHWEST. SLIGHT LEFT. TURN RIGHT ONTO US-202 N/US-206 N. TURN RIGHT ONTO SCHLEY MOUNTAIN RD. MERGE WITH I-287 N. ENTERING NEW YORK. TAKE THE I-87 S/NEW YORK STATE THRUWAY/I-287 EXIT TOWARD GOV MARIO M. CUOMO BR/NEW YORK CITY. MERGE WITH I-287 E/I-87 S. KEEP LEFT AT THE Y JUNCTION TO CONTINUE ON I-287 E, FOLLOW SIGNS FOR WHITE PLAINS/RYE. TAKE EXIT 9 S-N TOWARD HUTCHINSON PKWY/MERRITT PKWY. MERGE WITH WESTCHESTER AVE. USE THE RIGHT LANE TO TAKE THE RAMP TO WESTCHESTER AVE. MERGE WITH HUTCHINSON RIVER PKWY N. KEEP RIGHT AT THE Y JUNCTION TO STAY ON HUTCHINSON RIVER PKWY N.ENTERING CONNECTICU. CONTINUE ONTO CT-15 N. TAKE EXIT 39B TOWARD US-7 N. KEEP LEFT AT THE Y JUNCTION TO CONTINUE TOWARD US-7 N. SLIGHT RIGHT ONTO US-7 N. TURN RIGHT ONTO HONEY HILL RD. TURN LEFT ONTO QUAIL RIDGE RD.

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2018 CT SBC
MECHANICAL	2018 CT SBC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	BY OTHERS
DATED:	
MOUNT ANALYSIS:	MASER CONSULTING
DATED:	05/12/2021
RFDS REVISION:	0
DATED:	02/10/2021
ORDER ID:	552707
REVISION:	0

CALL CONNECTICUT ONE CALL
(800) 922-4455 CBYD.COM
CALL 2 WORKING DAYS BEFORE YOU DIG!

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
- INSTALL (3) ANTENNAS

GROUND SCOPE OF WORK:
- NONE

NOTE:
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

Tectonic
PRACTICAL SOLUTIONS, EXCEPTIONAL SERVICE.
Tectonic Engineering & Surveying Consultants P.C.
70 Pleasant Hill Road
P.O. Box 37
Mountainville, NY 10953
Phone: (845) 534-5959
(800) 829-8531
www.tectonicengineering.com
Project Contact Info
1279 Route 300
Newburgh, NY 12550
Phone: (845) 567-6656
TECTONIC WO: 10545.WILTONCT

VERIZON SITE NUMBER:
325157

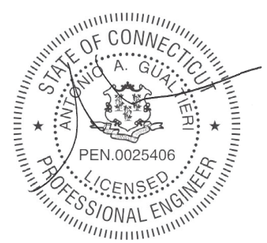
BU #: **806353**
BRG 124 943066

128 MATHER STREET
WILTON, CT 06897

EXISTING 180'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/03/2021	IJ	PRELIMINARY	----
0	06/15/2021	MJR	CONSTRUCTION	----



SHEET NUMBER: T-1
REVISION: A

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED– NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" – CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
   THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED–STD–10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED–STD–10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
   CARRIER: VERIZON
   TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
   #4 BARS AND SMALLER........40 ksi
   #5 BARS AND LARGER........60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH........3"
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 BARS AND LARGER........2"
   #5 BARS AND SMALLER........1–1/2"
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
   SLAB AND WALLS........3/4"
   BEAMS AND COLUMNS........1–1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON–METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON–METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD–WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
   4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
   4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE

SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

Tectonic
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P.O. Box 37 (800) 829–6531
Mountainville, NY 10953 www.tectonicengineering.com
Project Contact Info
1279 Route 300
Newburgh, NY 12550 Phone: (845) 567–6656
TECTONIC WO: 10545.WILTONCT

VERIZON SITE NUMBER:
325157

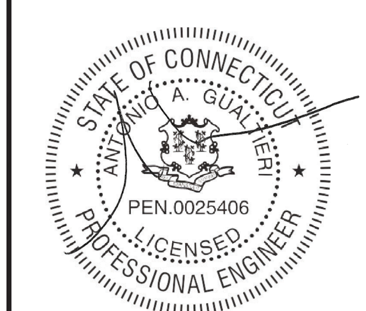
BU #: **806353**
BRG 124 943066

128 MATHER STREET
WILTON, CT 06897

EXISTING 180'-0"
SELF-SUPPORT TOWER

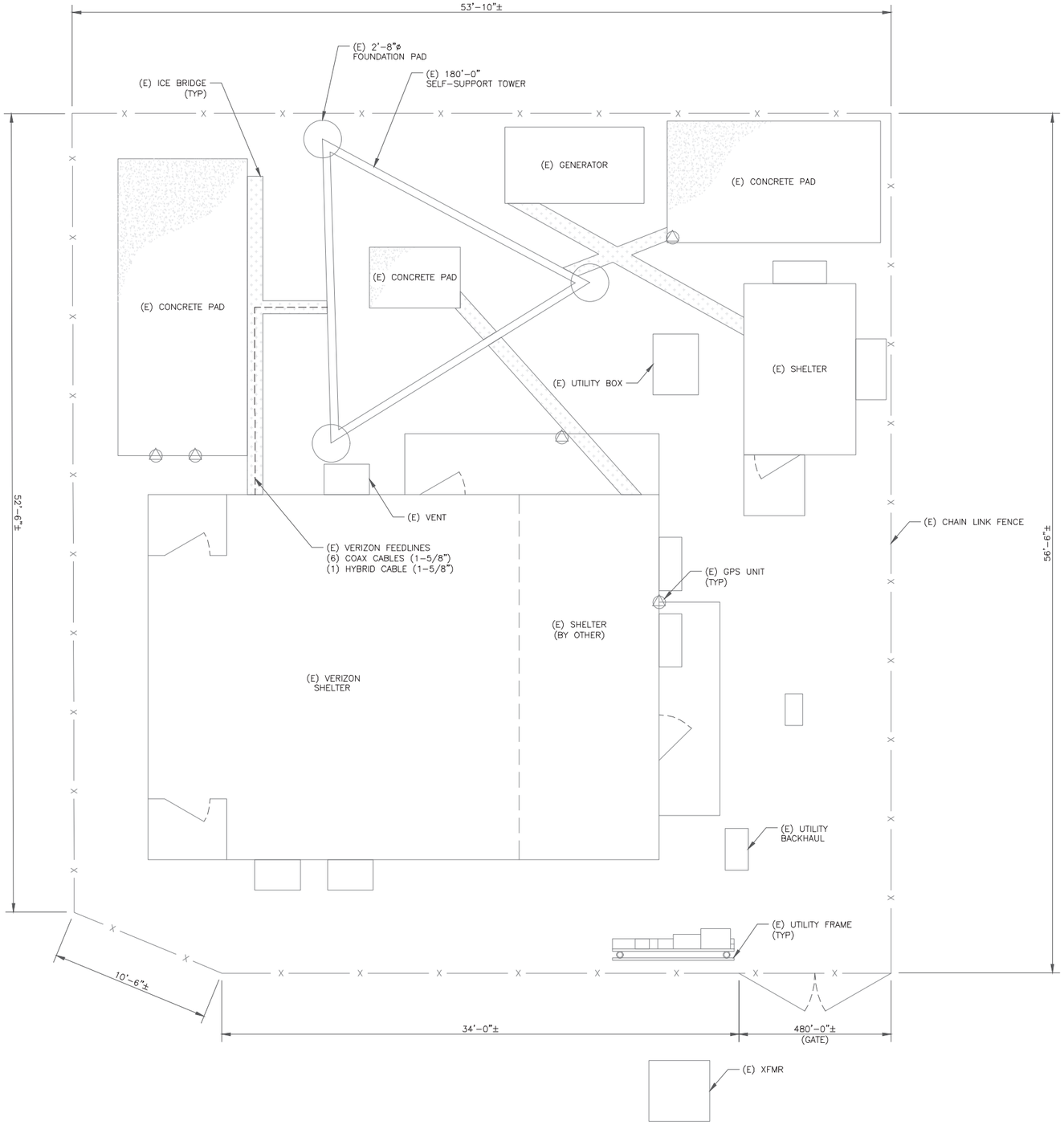
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/03/2021	IJ	PRELIMINARY	----
0	06/15/2021	MJR	CONSTRUCTION	----



SHEET NUMBER: T-2

REVISION: A



1 SITE PLAN

SCALE: 4' 2' 0 4' 3/16"=1'-0" (FULL SIZE) 3/32"=1'-0" (11x17)

N

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

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Newburgh, NY 12550
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TECTONIC WO: 10545.WILTONCT

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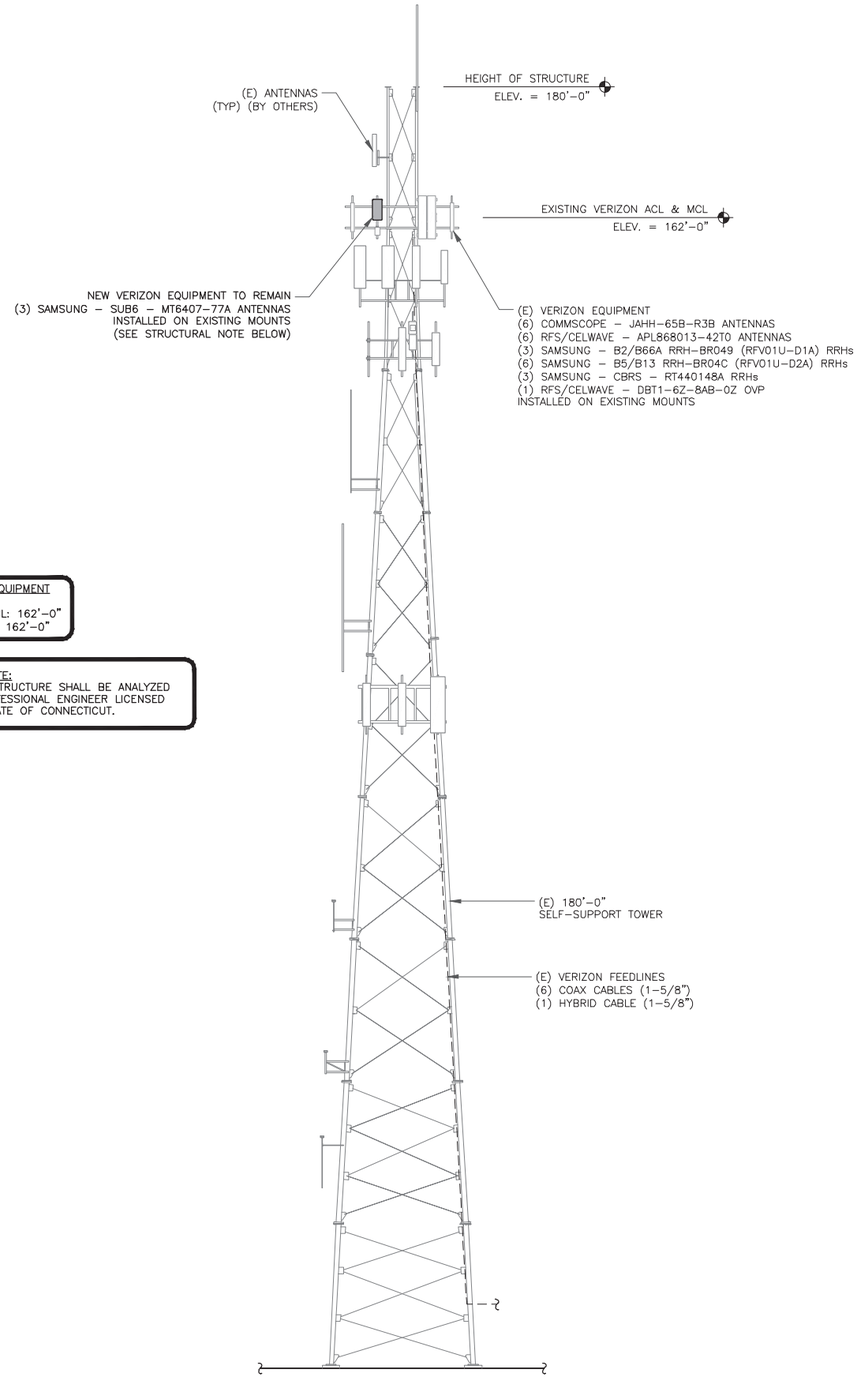
0	06/15/2021	MJR	CONSTRUCTION	----

STATE OF CONNECTICUT
ANTONIO A. GUATTERI
PEN.0025406
LICENSED
PROFESSIONAL ENGINEER

SHEET NUMBER: C-1

REVISION: A

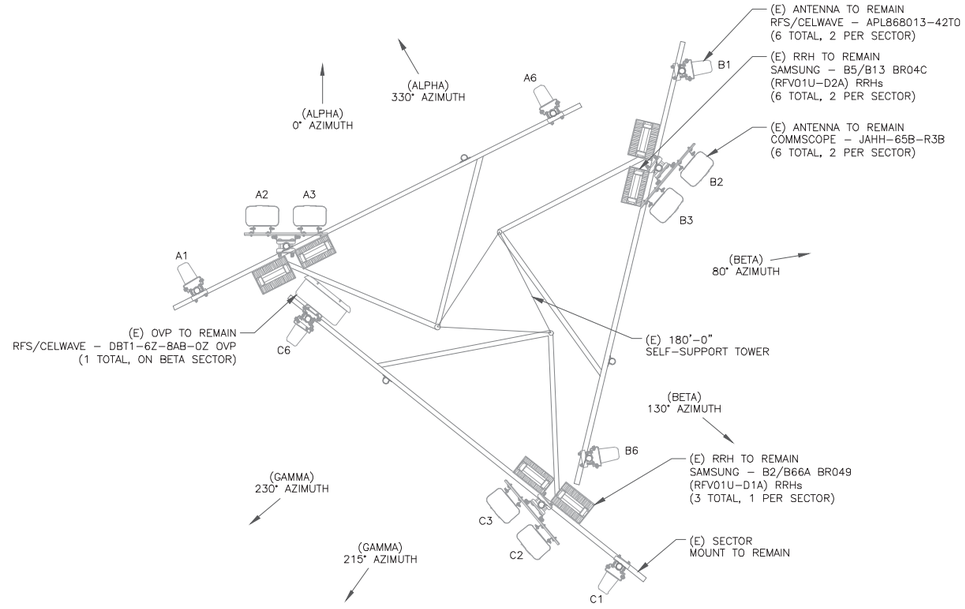


VERIZON EQUIPMENT

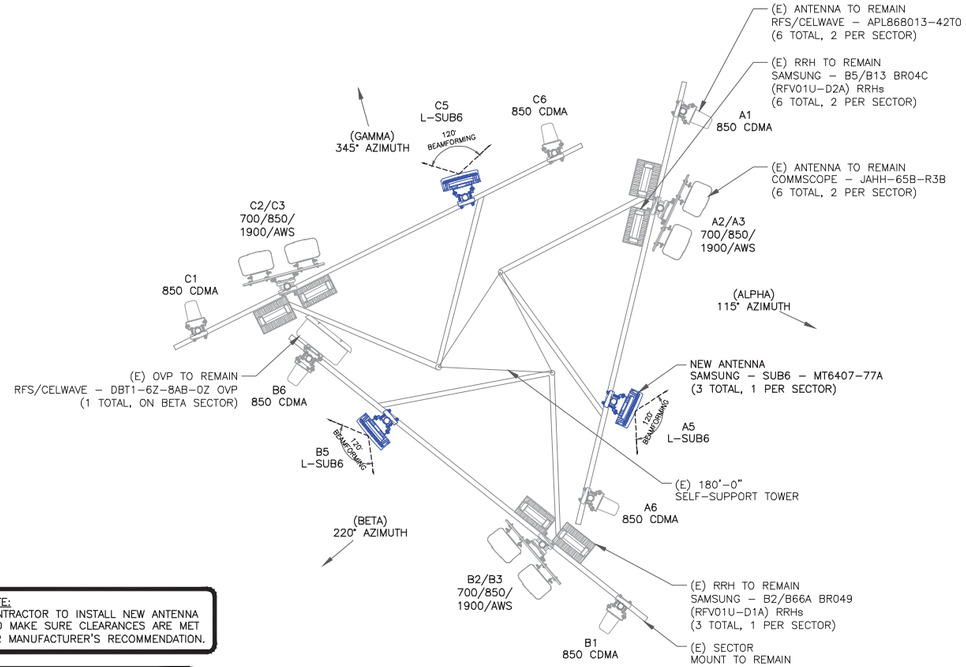
ANTENNA CL: 162'-0"
MOUNT CL: 162'-0"

TOWER NOTE:
EXISTING STRUCTURE SHALL BE ANALYZED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

1 TOWER ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



NOTE:
CONTRACTOR TO INSTALL NEW ANTENNA AND MAKE SURE CLEARANCES ARE MET PER MANUFACTURER'S RECOMMENDATION.

STRUCTURAL NOTE:
NOTE: EXISTING ANTENNA MOUNTS ARE STRUCTURALLY SUFFICIENT PER ANTENNA MOUNT ANALYSIS PREPARED BY MASER CONSULTING CONNECTICUT, DATED MAY 12, 2021.

3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

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Tectonic Engineering & Surveying Consultants P.C.
70 Pleasant Hill Road Phone: (845) 534-5959
P.O. Box 37 (800) 829-8531
Mountainville, NY 10953 www.tectonicengineering.com
Project Contact Info
1279 Route 300
Newburgh, NY 12550 Phone: (845) 567-4656
TECTONIC WO: 10545.WILTONCT

VERIZON SITE NUMBER:
325157

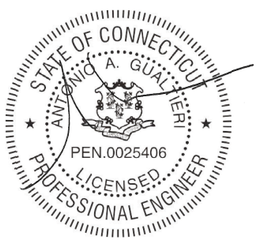
BU #: **806353**
BRG 124 943066

128 MATHER STREET
WILTON, CT 06897

EXISTING 180'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/03/2021	IJ	PRELIMINARY	----
0	06/15/2021	MJR	CONSTRUCTION	----



SHEET NUMBER:	REVISION:
C-2	A

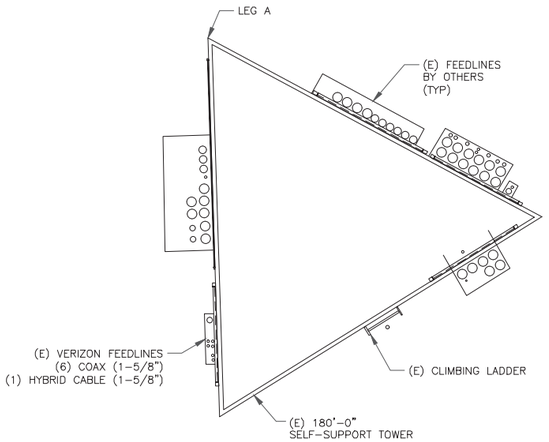
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	EXISTING	RFS	APL868013-42T0	162'-0"	105°	0°	0°	RFS/CELWAVE	(1) DBT1-6Z-8AB-0Z
A2	EXISTING	COMMSCOPE	JAHH-65B-R3B	162'-0"	115°	0°	2°/7°/1°	SAMSUNG SAMSUNG	(2) B5/B13 RRH-BR04C (RFV01U-D2A) (1) B2/B66A RRH-BR049 (RFV01U-D1A)
A3	EXISTING	COMMSCOPE	JAHH-65B-R3B	162'-0"	115°	0°	2°/7°/1°		
A4	EXISTING	SAMSUNG	XXDWMM-12.5-65-8T CBRS	162'-0"	115°	0°	8°	–	–
A5	NEW	SAMSUNG	MT6407-77A	162'-0"	115°	0°	6°	SAMSUNG	(1) CBRS RRH RT4401-48A
A6	EXISTING	RFS	APL868013-42T0	162'-0"	105°	0°	0°	–	–
B1	EXISTING	RFS	APL868013-42T0	162'-0"	220°	0°	0°	RFS/CELWAVE	(1) DBT1-6Z-8AB-0Z (SHARED)
B2	EXISTING	COMMSCOPE	JAHH-65B-R3B	162'-0"	220°	0°	5°/6°/1°	SAMSUNG SAMSUNG	(2) B5/B13 RRH-BR04C (RFV01U-D2A) (1) B2/B66A RRH-BR049 (RFV01U-D1A)
B3	EXISTING	COMMSCOPE	JAHH-65B-R3B	162'-0"	220°	0°	5°/6°/1°		
B4	EXISTING	SAMSUNG	XXDWMM-12.5-65-8T CBRS	162'-0"	220°	0°	8°	–	–
B5	NEW	SAMSUNG	MT6407-77A	162'-0"	220°	0°	6°	SAMSUNG	(1) CBRS RRH RT4401-48A
B6	EXISTING	RFS	APL868013-42T0	162'-0"	220°	0°	0°	–	–
C1	EXISTING	RFS	APL868013-42T0	162'-0"	335°	0°	0°	RFS/CELWAVE	(1) DBT1-6Z-8AB-0Z (SHARED)
C2	EXISTING	COMMSCOPE	JAHH-65B-R3B	162'-0"	345°	0°	2°/5°/1°	SAMSUNG SAMSUNG	(2) B5/B13 RRH-BR04C (RFV01U-D2A) (1) B2/B66A RRH-BR049 (RFV01U-D1A)
C3	EXISTING	COMMSCOPE	JAHH-65B-R3B	162'-0"	345°	0°	2°/5°/1°		
C4	EXISTING	SAMSUNG	XXDWMM-12.5-65-8T CBRS	162'-0"	345°	0°	8°	–	–
C5	NEW	SAMSUNG	MT6407-77A	162'-0"	345°	0°	6°	SAMSUNG	(1) CBRS RRH RT4401-48A
C6	EXISTING	RFS	APL868013-42T0	162'-0"	335°	0°	0°	–	–

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	212'-0"±	6
EXISTING	HYBRID	1-5/8"	212'-0"±	1
TOTAL CABLE QTY:				7



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

N

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VERIZON SITE NUMBER:
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STATE OF CONNECTICUT
ANTONIO A. GUALTIERI
PEN.0025406
LICENSED
PROFESSIONAL ENGINEER

SHEET NUMBER: C-3
REVISION: A

1 NOT USED
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

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180 WASHINGTON VALLEY ROAD
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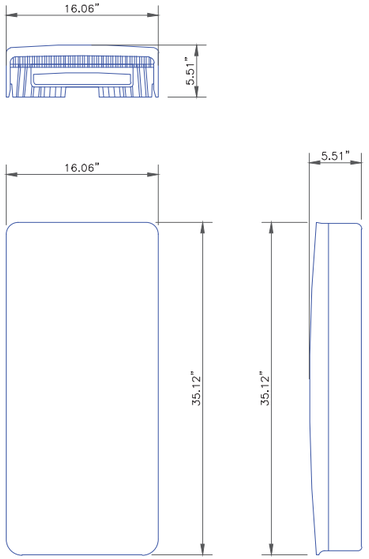
STATE OF CONNECTICUT
ANTONIO A. GUALTIERI
PEN.0025406
LICENSED
PROFESSIONAL ENGINEER

SHEET NUMBER: C-4
REVISION: A



SAMSUNG – MT6407–77A ANTENNA
WEIGHT(W/O EQUIPMENT): 87.1 LBS
SIZE (HXWXD): 35.12 X 16.06 X 5.51 IN.

1 SAMSUNG – VZS01 ANTENNA
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
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BU #: **806353**
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EXISTING 180'-0"
SELF-SUPPORT TOWER

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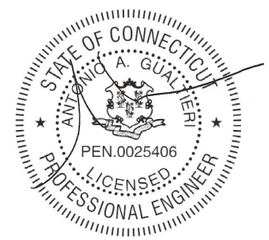


SHEET NUMBER: C-5

REVISION: A

- Port 1 & 2 are for low band (698-787 MHz).
- Port 3 & 4 are for low band (824-894 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Antenna Smart Bias Tee (SBT) is through port 1 for low band and port 5 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.

RET DC signal pass for RET
(Port that will control RET)

DC signal capable Port

AISG Cable

RET DC signal pass for RET
(Port that will control RET)

Hybriflex cables

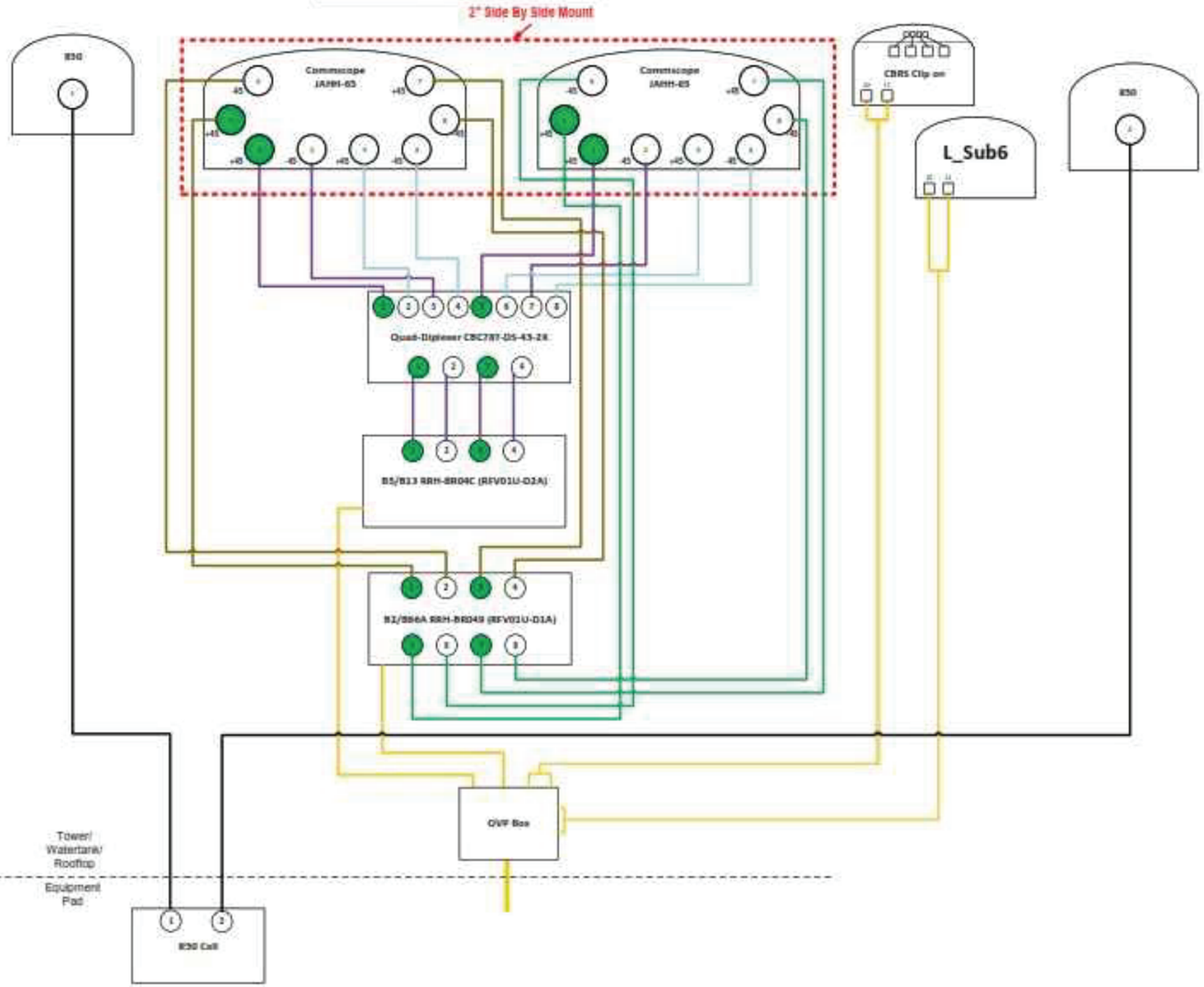
Comments:

Diagram shows configuration as viewed from standing behind the antennas.

Antennas will be installed in that order from left to right.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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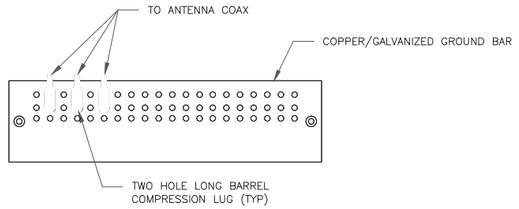
ANTONIO A. GUALTIERI
PEN.0025406
LICENSED
PROFESSIONAL ENGINEER

SHEET NUMBER: C-6

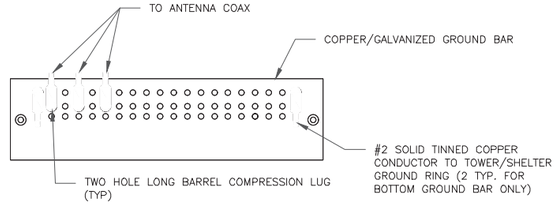
REVISION: A



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

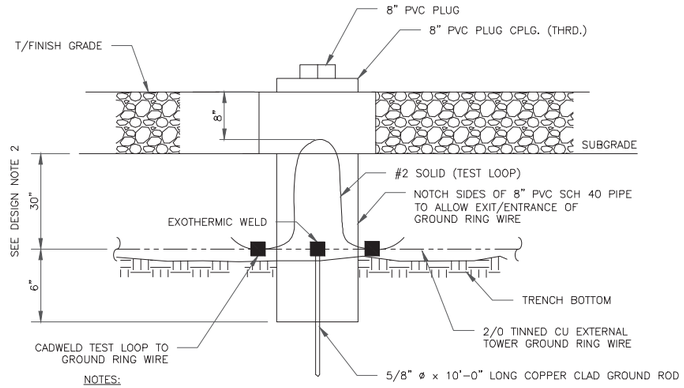
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

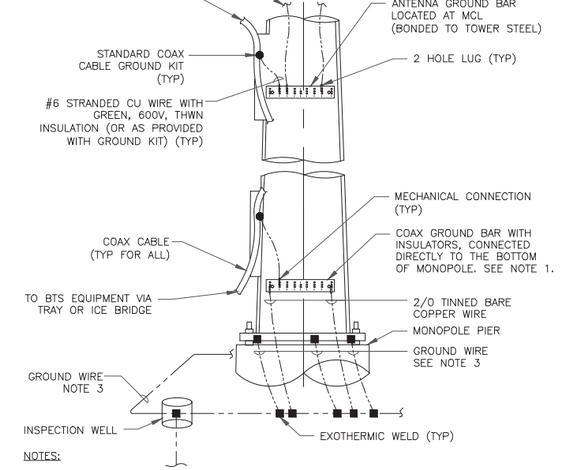
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

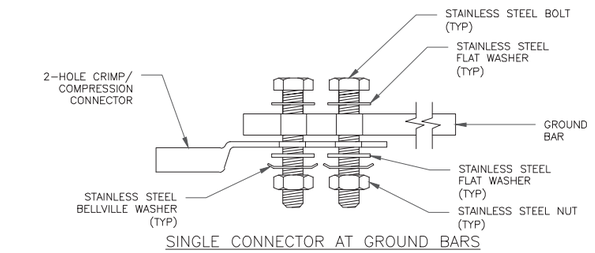
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



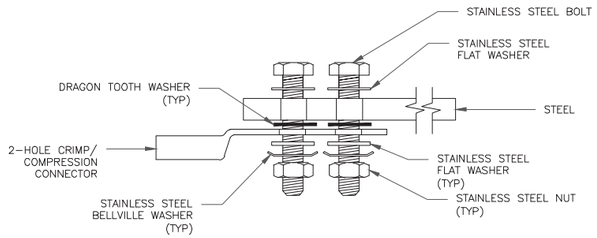
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

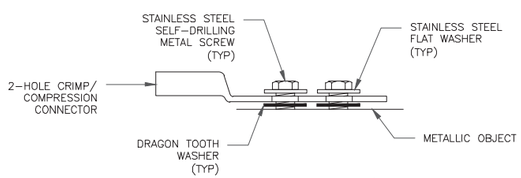
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

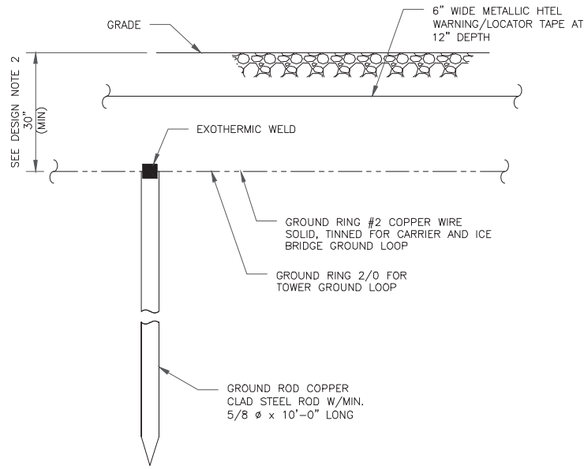


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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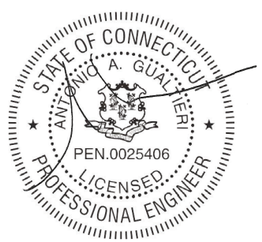
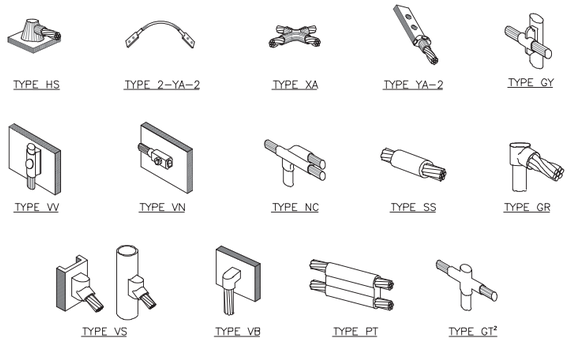


SHEET NUMBER: G-1
REVISION: A

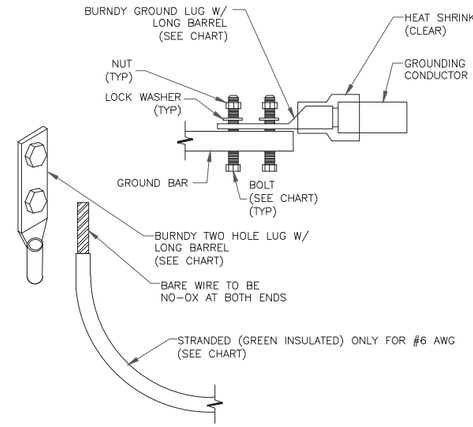


NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

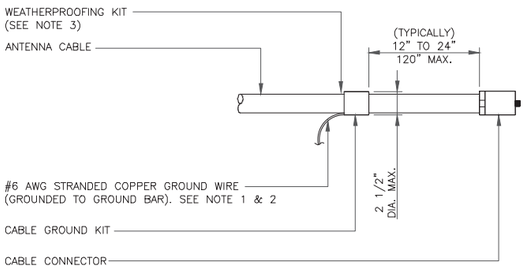
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER,GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

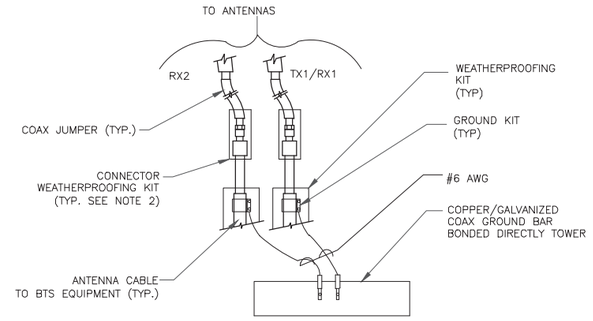
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

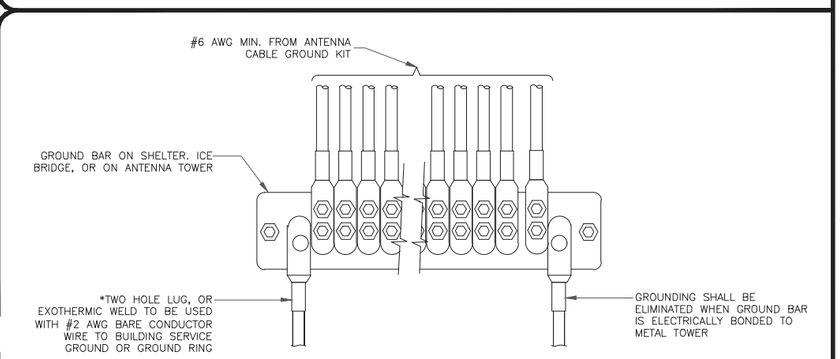
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



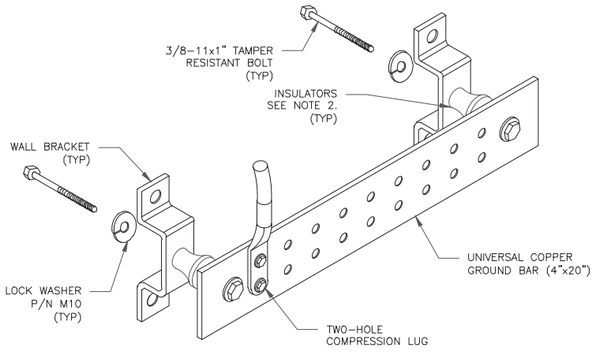
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



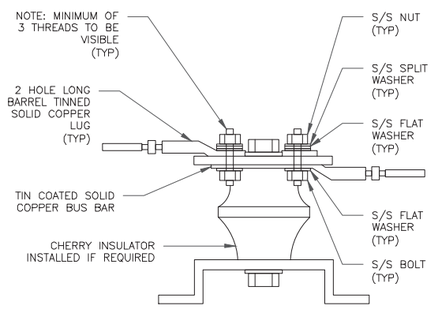
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



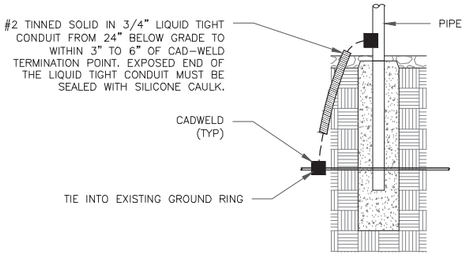
NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

Tectonic
PRACTICAL SOLUTIONS, EXCEPTIONAL SERVICE.
Tectonic Engineering & Surveying Consultants P.C.
70 Pleasant Hill Road Phone: (845) 534-5959
P.O. Box 37 (800) 829-8531
Mountainville, NY 10953 www.tectonicengineering.com
Project Contact Info
1279 Route 300
Newburgh, NY 12550 Phone: (845) 567-6656
TECTONIC WO: 10545.WILTONCT

VERIZON SITE NUMBER:
325157

BU #: **806353**
BRG 124 943066

128 MATHER STREET
WILTON, CT 06897

EXISTING 180'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/03/2021	IJ	PRELIMINARY	----
0	06/15/2021	MJR	CONSTRUCTION	----

SHEET NUMBER:	REVISION:
G-2	A

Exhibit D

Structural Analysis Report

Date: **March 1, 2022**

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

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	467241
	Site Name:	Wilton CT
Crown Castle Designation:	**BU Number:**	806353
	Site Name:	BRG 124 943066
	JDE Job Number:	707657
	Work Order Number:	2084075
	Order Number:	606853 Rev. 0
Engineering Firm Designation:	**B+T Group Project Number:**	102920.011.01
Site Data:	**128 Mather Street, Wilton, Fairfield County, CT** **Latitude *41° 14' 18.7"*, Longitude *-73° 25' 26.9"*** **180 Foot - Self Support Tower**	

B+T Group is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

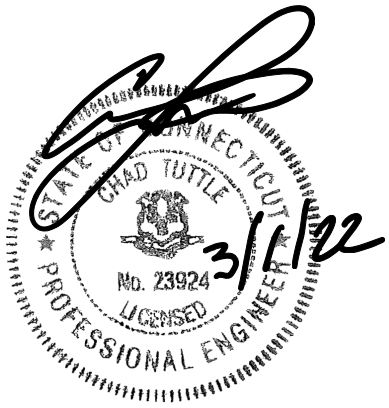
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity – 99.6%**

This analysis utilizes an ultimate 3-second gust wind speed of 116 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Isaac Fulton

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 02/1/2023



Chad E. Tuttle, P.E.

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 180 ft. Self-Support tower designed by FWT Inc.

The tower has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	116 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
164.0	166.0	1	Rfs Celwave	DB-T1-6Z-8AB-0Z	7	1-5/8
		3	Samsung Telecomm.	RFV01U-D1A		
		3	Samsung Telecomm.	RFV01U-D2A		
	164.0	1	--	Sector Mount [SM 702-3](16')		
	162.0	6	Commscope	JAHH-65B-R3B		
		6	Rfs Celwave	APL868013		
		3	Samsung Telecomm.	CBRS		
		3	Samsung Telecomm.	MT6407-77A		

Table 2 - Non-Carrier Equipment To Be Removed

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
170.0	171.0	3	Kathrein	800 10504	6	1-5/8
	170.0	3	Kathrein	860 10025	1	1/4
		1	--	Side Arm Mount [SO 103-3]		

Table 3 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
178.0	184.0	1	Rfs Celwave	PD10017	2	7/8
170.0	170.0	1	Commscope	MTC3975083 (3)	1	1-3/4
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		3	JMA Wireless	MX08FRO665-21		
		1	Raycap	RDIDC-9181-PF-48		
154.0	158.0	3	CCI Antennas	DMP65R-BU6D	12	1-5/8

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	CCI Antennas	OPA65R-BU6D	6 2	5/8 3/8
		3	Ericsson	RRUS 32 B2		
		3	Ericsson	RRUS 32 B30		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14		
		3	Kaelus	DBC0061F1V51-2		
		3	Powerwave Tech.	7770.00		
		6	Powerwave Tech.	LGP21401		
		3	Quintel Tech.	QS66512-2		
		3	Raycap	DC6-48-60-18-8F		
	154.0	1	--	Sector Mount [SM 1303-3]		
145.0	146.0	3	Alcatel Lucent	800 External Notch Filter	--	--
		3	Alcatel Lucent	800MHZ 2X50W RRH		
		3	Alcatel Lucent	PCS 1900MHZ 4X45W-65MHZ		
143.0	143.0	3	Site Pro1	VFA12-HD Sector Frames	3	1-5/8
		3	Commscope	VV-65A-R1_TMO		
		3	Ericsson	AIR6449 B41_T-MOBILE		
		3	Ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	Ericsson	Radio 4480_TMOV2		
		3	Rfs Celwave	APXVAALL24_43-U-NA20_TMO		
124.0	131.0	2	Rfs Celwave	1142-2C	2	1/2
	124.0	2	--	Side Arm Mount [SO 303-1]		
104.0	111.0	1	Rfs Celwave	1142-2C	1 1	7/8 1/2
	108.0	1	Rfs Celwave	220-3BN		
	104.0	2	--	Side Arm Mount [SO 303-1]		
93.0	93.0	3	Ericsson	AIR 32 B2a/B66Aa	4 6	1-5/8 1-1/4
		3	Ericsson	ERICSSON AIR 21 B2A B4P		
		3	Ericsson	KRY 112 144/1		
		3	Ericsson	RADIO 4449 B12/B71		
		3	Rfs Celwave	APXVAARR24_43-U-NA20		
		1	--	Sector Mount [SM 404-3]		
62.0	65.0	1	Gps	GPS_A	1	1/2
	62.0	1	--	Side Arm Mount [SO 305-1]		
42.0	44.0	1	Gps	GPS_A	1	1/2
	42.0	1	--	Side Arm Mount [SO 305-1]		
31.0	32.0	1	Gps	GPS_A	1	1/2
	31.0	1	--	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	217757	CCI Sites
Tower Modification Drawing	3290324	CCI Sites
Tower Modification Drawing	801524	CCI Sites
Tower Modification Drawing	2434484	CCI Sites
Post Modification Inspection	2575710	CCI Sites
Tower Modification Drawing	6061656	CCI Sites
Post Modification Inspection	6515894	CCI Sites
Foundation Drawing	262285	CCI Sites
Geotech Report	262283	CCI Sites
Crown CAD Package	Date: 02/24/2022	CCI Sites

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

1) The tower and structures were maintained in accordance with the - TIA-222 standard.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 5 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	180 - 168	Leg	P2x0.154	2	-3.050	29.380	10.4	Pass
T2	168 - 160	Leg	P2x0.154 (GR)	26	-12.062	40.351	29.9	Pass
T3	160 - 140	Leg	P3x0.216 (GR)	41	-53.248	91.364	58.3	Pass
T4	140 - 120	Leg	P3.5x.318 (GR)	68	-90.676	128.240	70.7	Pass
T5	120 - 100	Leg	P4x.337 (GR)	89	-122.864	165.049	74.4	Pass
T6	100 - 80	Leg	P5x0.375 (GR)	109	128.813	202.153	63.7	Pass
T7	80 - 60	Leg	P6x0.432	131	-182.112	238.435	76.4	Pass
T8	60 - 40	Leg	P6x0.432	145	-211.110	238.435	88.5	Pass
T9	40 - 20	Leg	P6x0.432	160	-238.772	266.933	89.5	Pass
T10	20 - 0	Leg	P8x.5	181	-267.094	386.074	69.2	Pass
T1	180 - 168	Diagonal	L2x1 1/2x3/16	10	-0.803	15.935	5.0	Pass
T2	168 - 160	Diagonal	L2x1 1/2x3/16	30	-3.027	15.935	19.0	Pass
T3	160 - 140	Diagonal	L2x1 1/2x3/16	46	-4.416	10.157	43.5	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T4	140 - 120	Diagonal	L2x2x3/16	70	-4.917	9.511	51.7	Pass
T5	120 - 100	Diagonal	L2 1/2x2x3/16	91	-5.020	9.472	53.0	Pass
T6	100 - 80	Diagonal	L2 1/2x2 1/2x3/16	112	-5.761	10.923	52.7	Pass
T7	80 - 60	Diagonal	L3x3x3/16	133	-6.800	11.950	56.9	Pass
T8	60 - 40	Diagonal	L3 1/2x3x1/4	148	-7.188	15.837	45.4	Pass
T9	40 - 20	Diagonal	L3 1/2x3x1/4	163	-8.326	12.837	64.9	Pass
T10	20 - 0	Diagonal	L3 1/2x3 1/2x1/4	184	-8.539	14.867	57.4	Pass
T9	40 - 20	Secondary Horizontal	L3 1/2x3 1/2x1/4	171	-4.141	23.697	17.5	Pass
T1	180 - 168	Top Girt	L2x1 1/2x3/16	6	-0.143	10.904	1.3	Pass
							Summary	
						Leg (T9)	89.5	Pass
						Diagonal (T9)	64.9	Pass
						Secondary Horizontal (T9)	17.5	Pass
						Top Girt (T1)	1.3	Pass
						Bolt Checks	87.6	Pass
						Rating =	89.5	Pass

Table 6 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	Base	59.3	Pass
1,2	Base Foundation (Structure)	Base	99.6	Pass
1,2	Base Foundation (Soil Interaction)	Base	90.0	Pass

Structure Rating (max from all components) =	**99.6%**

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed.
2) Rating per TIA-222-H Section 15.5.

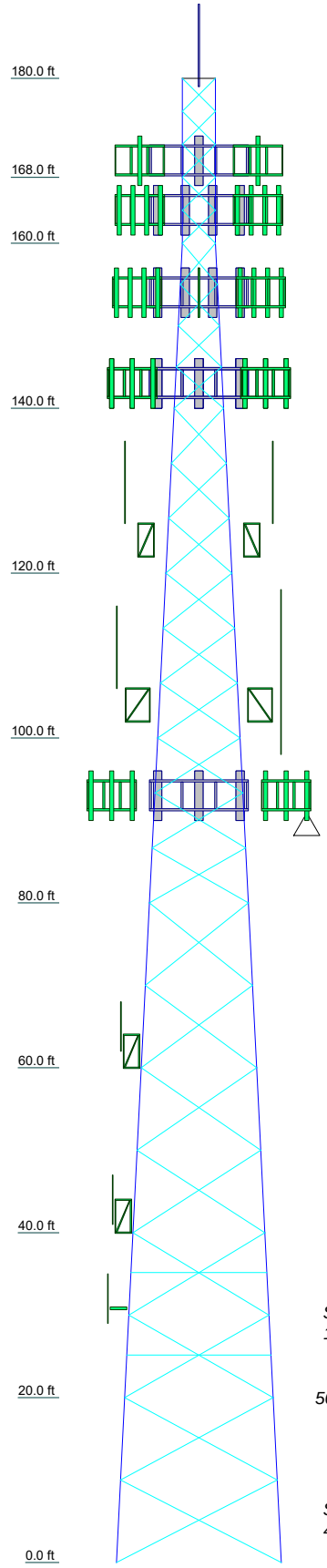
4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	Legs	Leg Grade	Diagonals	Diagonal Grade	Top Girts	Sec. Horizontals	Face Width (ft)	# Panels @ (ft)	Weight (K)
T1	P2x0.154		L2x1 1/2x3/16		L2x1 1/2x3/16		4	5 @ 4	0.4
T2	A								0.3
T3	P3x0.216 (GR)							4 @ 5	1.4
T4	P3.5x.318 (GR)		L2x2x3/16			N.A.	6		1.9
T5	P4x.337 (GR)		L2 1/2x2x3/16				8	9 @ 6.66667	2.4
T6	P5x0.375 (GR)	A53-B-35	L2 1/2x2 1/2x3/16	A36	N.A.		10		3.4
T7			L3x3x3/16				12		2.7
T8	P6x0.432		L3 1/2x3x1/4				14	8 @ 10	3.2
T9						L3 1/2x3 1/2x1/4	16		3.9
T10	P8x.5		L3 1/2x3 1/2x1/4			N.A.	18		4.5
							20		24.1



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	P2x0.154 (GR)		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	63 ksi	A36	36 ksi	58 ksi

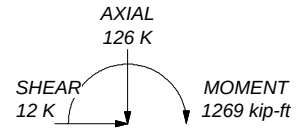
TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 116 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. Grouted pipe f'c is 7.000 ksi
9. TIA-222-H Annex S
10. TOWER RATING: 89.5%

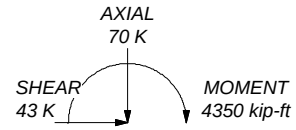
ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 274 K
SHEAR: 28 K

UPLIFT: -229 K
SHEAR: 24 K



TORQUE 8 kip-ft
50 mph WIND - 1.000 in ICE



TORQUE 28 kip-ft
REACTIONS - 116 mph WIND

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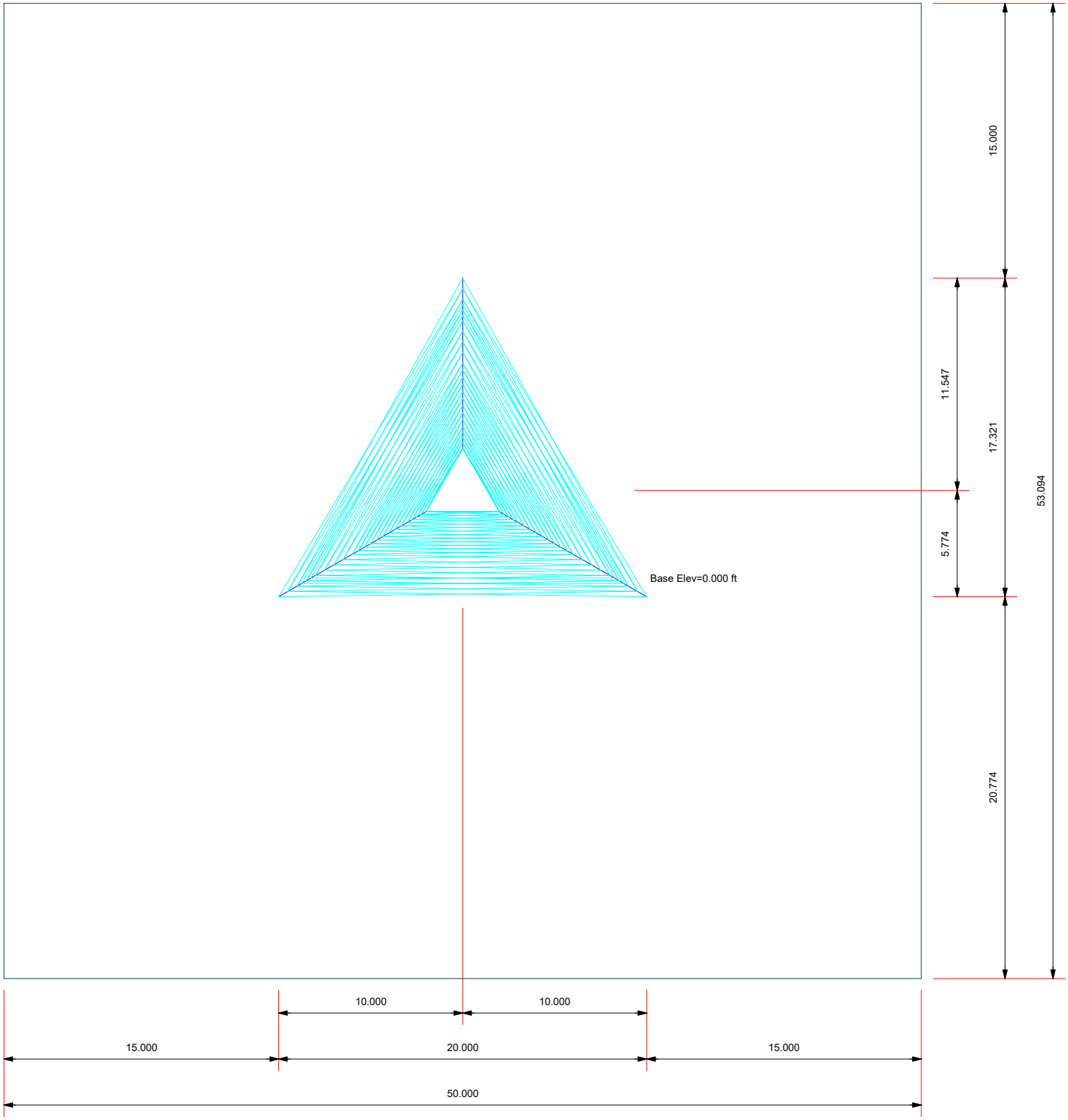
1717 S. Boulder, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: 102920.011.01 - BRG 124 943066, CT (BU# 806353			
Project:			
Client: Crown Castle	Drawn by: Jayaraj B	App'd:	
Code: TIA-222-H	Date: 02/26/22	Scale: NTS	
Path:		Dwg No. E-1	

Plot Plan

Total Area - 0.06 Acres



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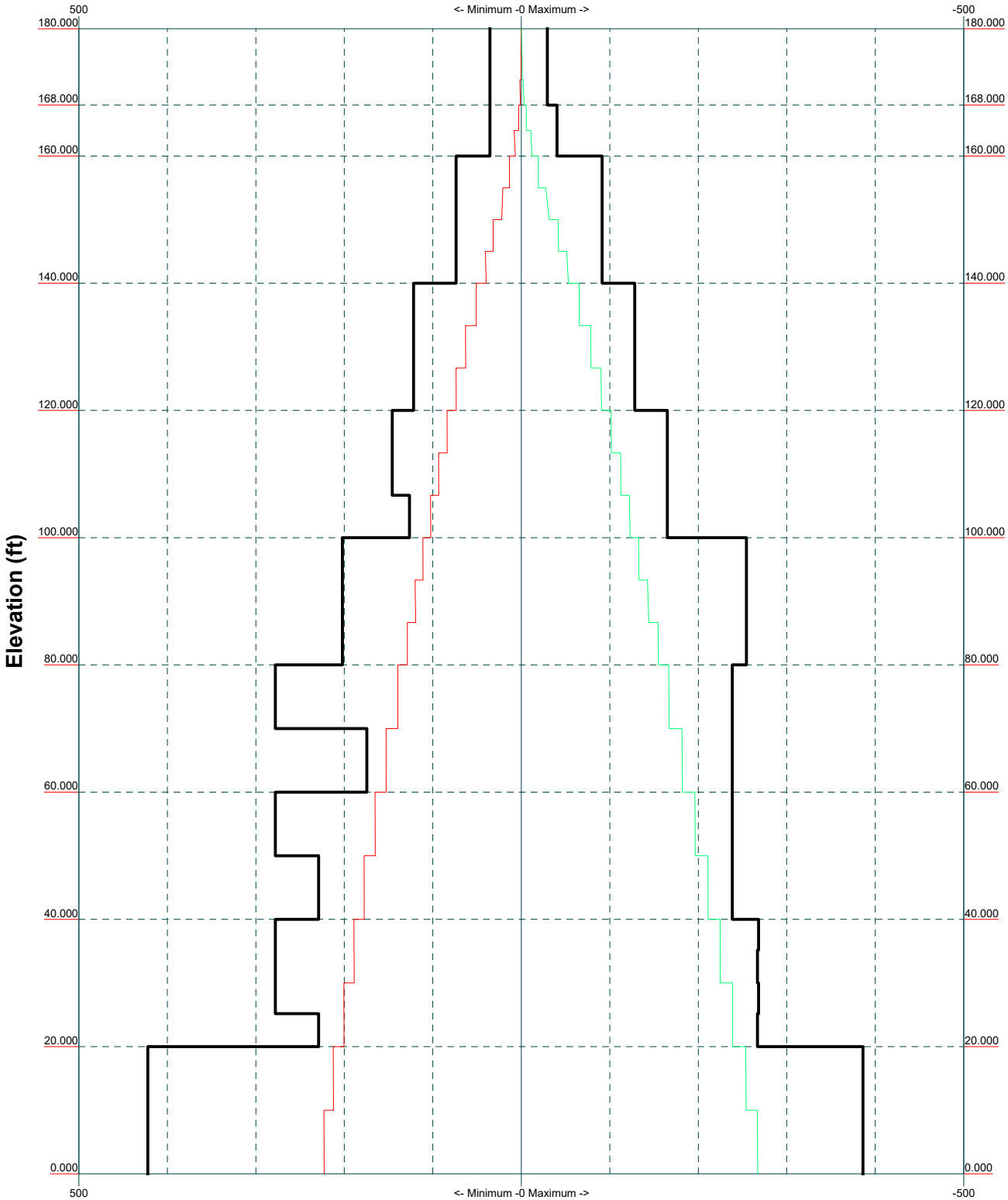
Job: 102920.011.01 - BRG 124 943066, CT (BU# 806353			
Project:			
Client: Crown Castle	Drawn by: Jayaraj B	App'd:	
Code: TIA-222-H	Date: 02/26/22	Scale: NTS	
Path:		Dwg No. E-2	

TIA-222-H - 116 mph/50 mph 1.000 in Ice Exposure B

Leg Capacity ——— **Leg Compression (K)**



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Job: 102920.011.01 - BRG 124 943066, CT (BU# 806353		
Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 02/26/22	Scale: NTS
Path:		Dwg No. E-3

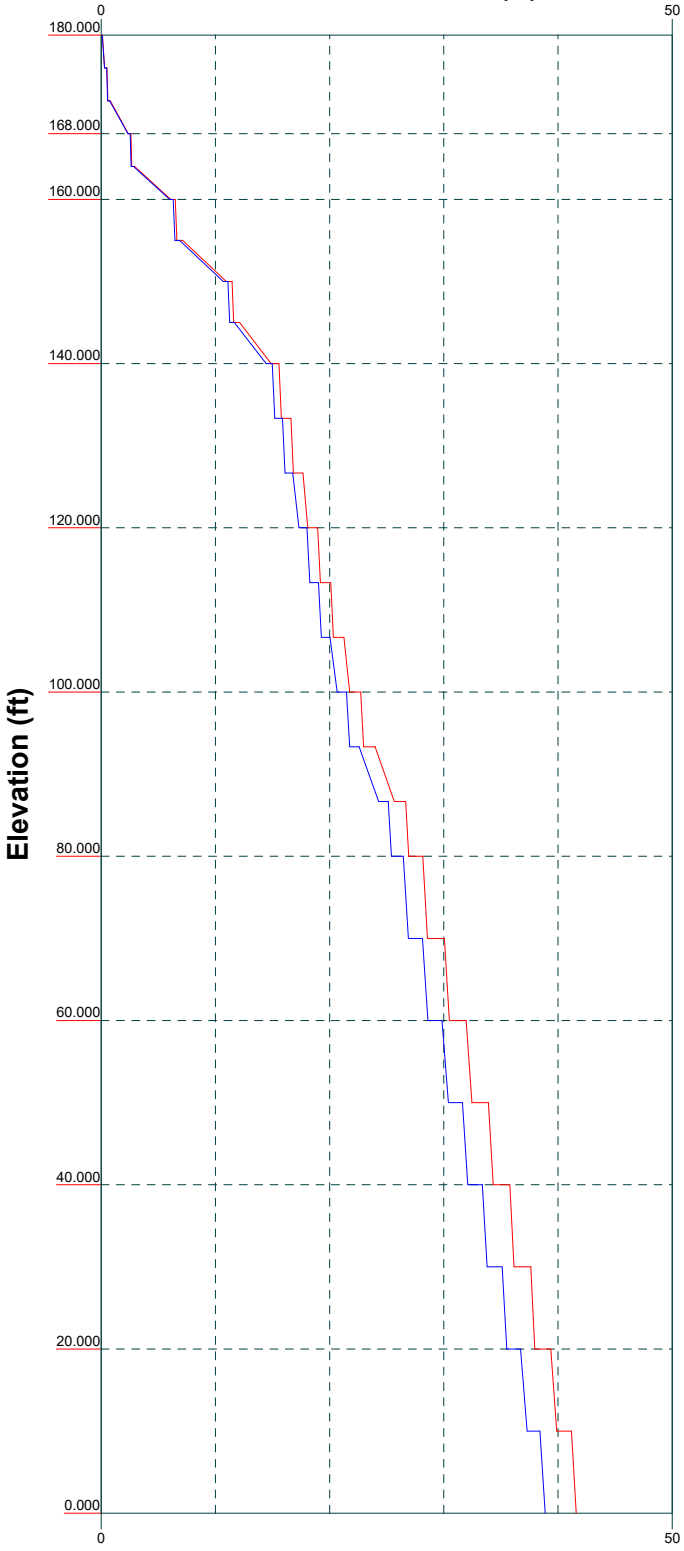
TIA-222-H - 116 mph/50 mph 1.000 in Ice Exposure B

Vx Vz

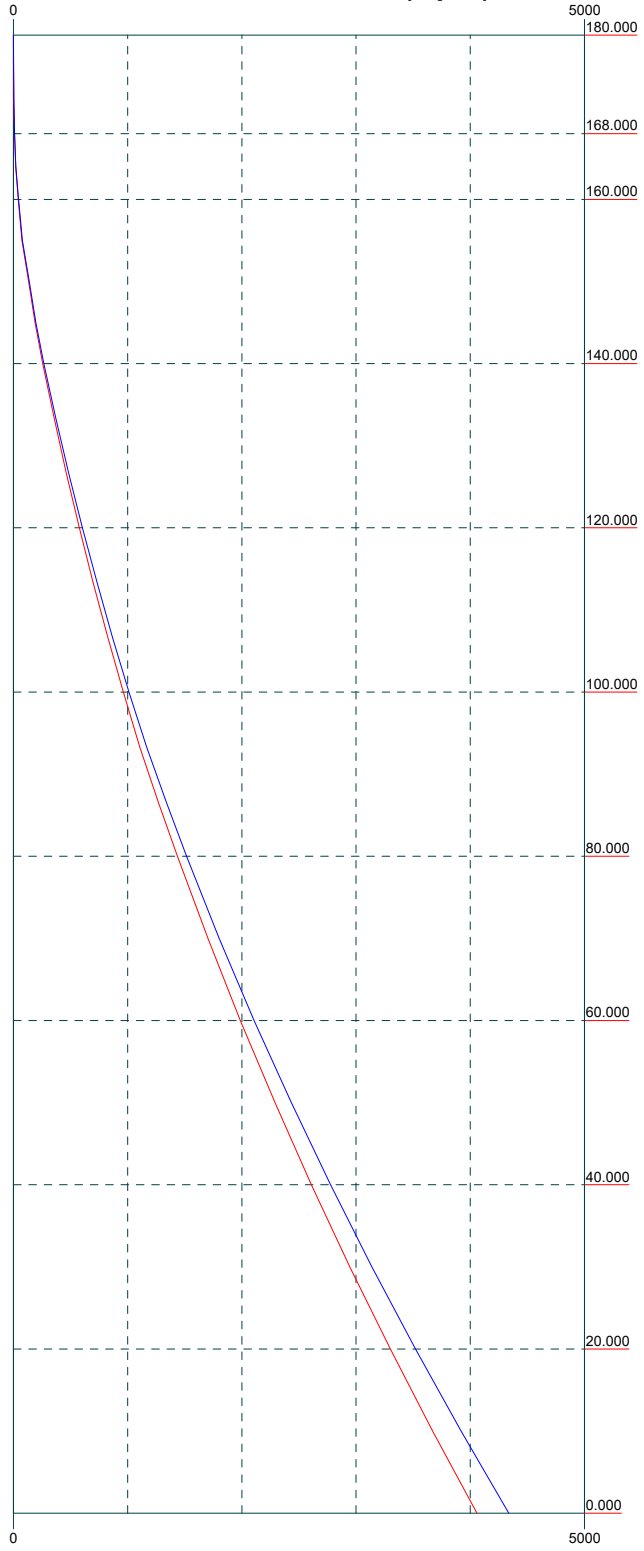
Maximum Values

Mx Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)



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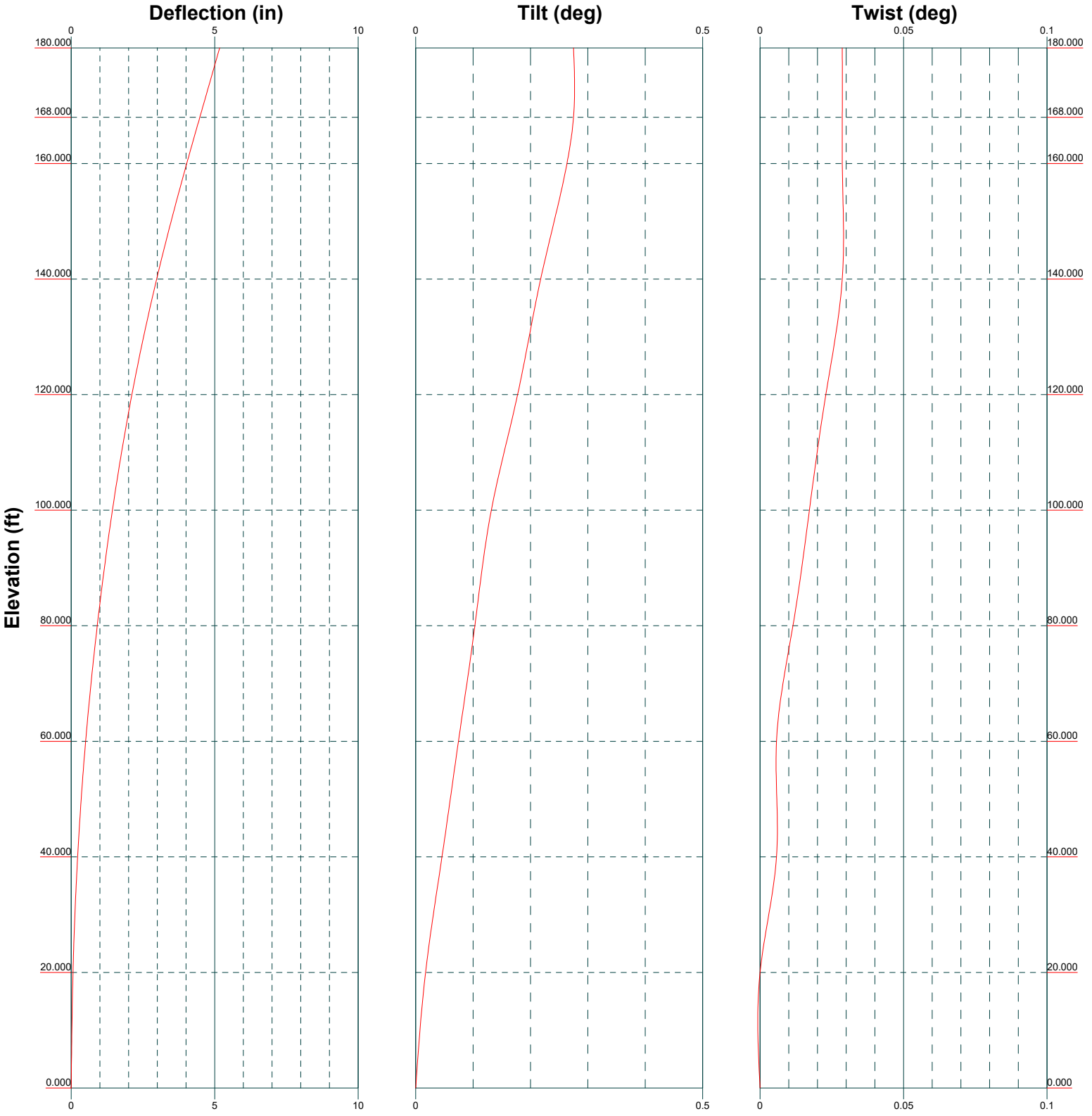
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: 102920.011.01 - BRG 124 943066, CT (BU# 806353			
Project:			
Client: Crown Castle	Drawn by: Jayaraj B	App'd:	
Code: TIA-222-H	Date: 02/26/22	Scale: NTS	
Path:		Dwg No. E-4	

TIA-222-H - Service - 60 mph

Maximum Values



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Phone: (918) 587-4630
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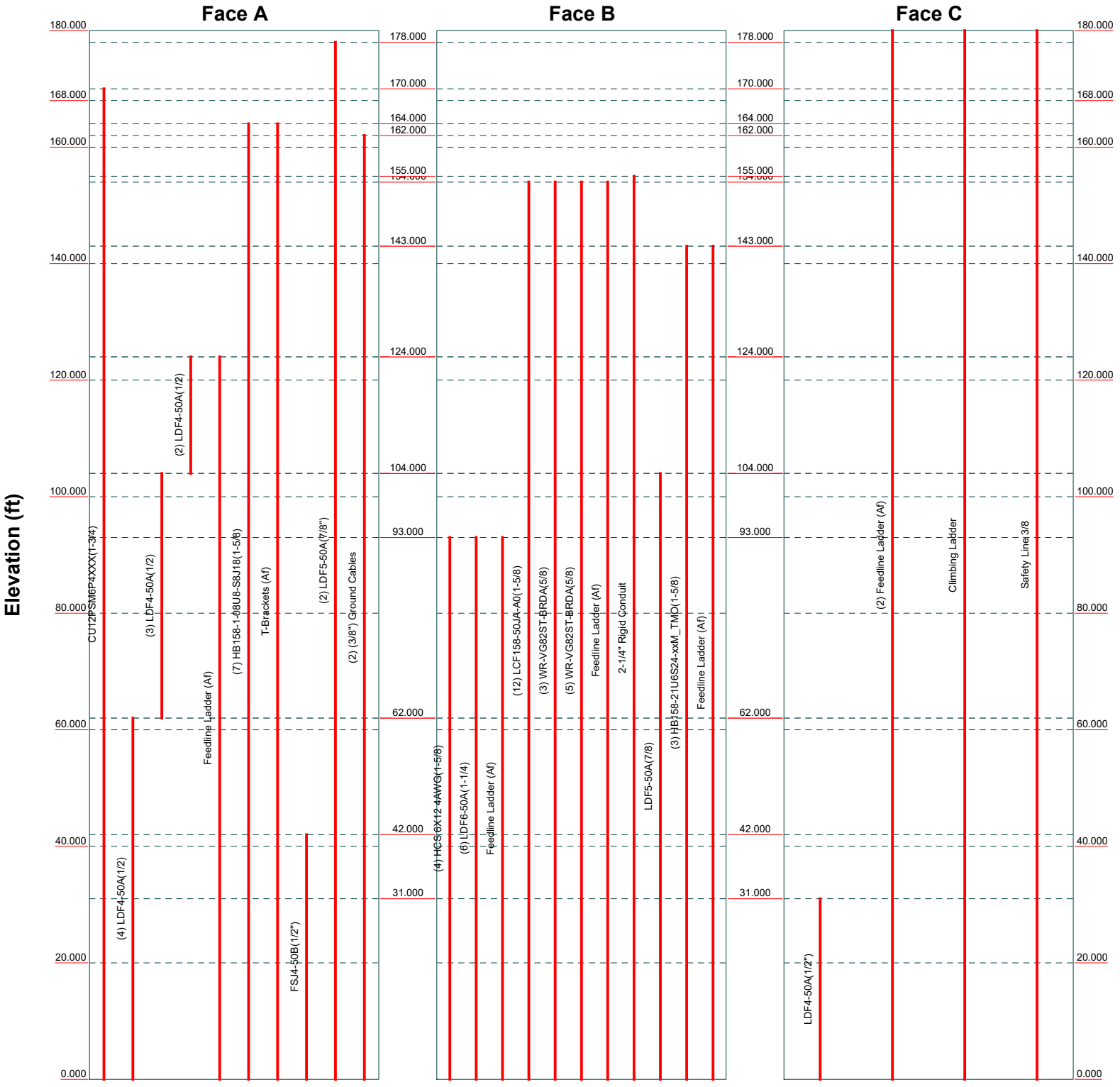
Job: 102920.011.01 - BRG 124 943066, CT (BU# 806353		
Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 02/26/22	Scale: NTS
Path:		Dwg No. E-5

Feed Line Distribution Chart
0' - 180'

Round | Flat | App In Face | App Out Face | Truss Leg



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FAX: (918) 295-0265

Job: ***102920.011.01 - BRG 124 943066, CT (BU# 806353***		
Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 02/26/22	Scale: NTS
Path:		Dwg No. E-7

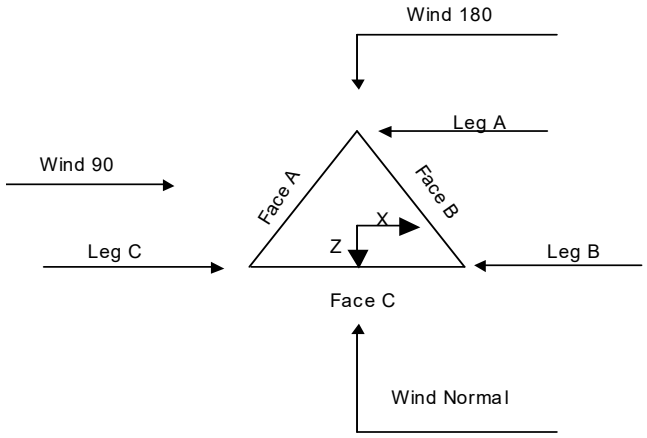
Tower Input Data

The main tower is a 3x free standing tower with an overall height of 180.000 ft above the ground line.
The base of the tower is set at an elevation of 0.000 ft above the ground line.
The face width of the tower is 4.000 ft at the top and 20.000 ft at the base.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in Fairfield County, Connecticut.
Tower base elevation above sea level: 427.000 ft.
Basic wind speed of 116 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.000 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
Grouted pipe f'_c is 7.000 ksi.
Pressures are calculated at each section.
Stress ratio used in tower member design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	√ Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	√ SR Leg Bolts Resist Compression
√ Use Code Stress Ratios	√ Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
√ Use Code Safety Factors - Guys	Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	√ Bypass Mast Stability Checks	√ Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	√ Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist. Exemption
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Use TIA-222-H Tension Splice Exemption
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Poles
√ Secondary Horizontal Braces Leg	√ Sort Capacity Reports By Component	Include Shear-Torsion Interaction
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Always Use Sub-Critical Flow
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Use Top Mounted Sockets
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole Without Linear Attachments
		Pole With Shroud Or No Appurtenances
		Outside and Inside Corner Radii Are Known



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	180.000-168.000			4.000	1	12.000
T2	168.000-160.000			4.000	1	8.000
T3	160.000-140.000			4.000	1	20.000
T4	140.000-120.000			6.000	1	20.000
T5	120.000-100.000			8.000	1	20.000
T6	100.000-80.000			10.000	1	20.000
T7	80.000-60.000			12.000	1	20.000
T8	60.000-40.000			14.000	1	20.000
T9	40.000-20.000			16.000	1	20.000
T10	20.000-0.000			18.000	1	20.000

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	180.000-168.000	4.000	X Brace	No	No	0.000	0.000
T2	168.000-160.000	4.000	X Brace	No	No	0.000	0.000

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T3	160.000-140.000	5.000	X Brace	No	No	0.000	0.000
T4	140.000-120.000	6.667	X Brace	No	No	0.000	0.000
T5	120.000-100.000	6.667	X Brace	No	No	0.000	0.000
T6	100.000-80.000	6.667	X Brace	No	No	0.000	0.000
T7	80.000-60.000	10.000	X Brace	No	No	0.000	0.000
T8	60.000-40.000	10.000	X Brace	No	No	0.000	0.000
T9	40.000-20.000	10.000	X Brace	No	Yes	0.000	0.000
T10	20.000-0.000	10.000	X Brace	No	No	0.000	0.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 180.000-168.000	Pipe	P2x0.154	A53-B-35 (35 ksi)	Single Angle	L2x1 1/2x3/16	A36 (36 ksi)
T2 168.000-160.000	Grouted Pipe	P2x0.154	A53-B-35 (35 ksi)	Single Angle	L2x1 1/2x3/16	A36 (36 ksi)
T3 160.000-140.000	Grouted Pipe	P3x0.216	A53-B-35 (35 ksi)	Single Angle	L2x1 1/2x3/16	A36 (36 ksi)
T4 140.000-120.000	Grouted Pipe	P3.5x.318	A53-B-35 (35 ksi)	Single Angle	L2x2x3/16	A36 (36 ksi)
T5 120.000-100.000	Grouted Pipe	P4x.337	A53-B-35 (35 ksi)	Single Angle	L2 1/2x2x3/16	A36 (36 ksi)
T6 100.000-80.000	Grouted Pipe	P5x0.375	A53-B-35 (35 ksi)	Single Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T7 80.000-60.000	Pipe	P6x0.432	A53-B-35 (35 ksi)	Single Angle	L3x3x3/16	A36 (36 ksi)
T8 60.000-40.000	Pipe	P6x0.432	A53-B-35 (35 ksi)	Single Angle	L3 1/2x3x1/4	A36 (36 ksi)
T9 40.000-20.000	Pipe	P6x0.432	A53-B-35 (35 ksi)	Single Angle	L3 1/2x3x1/4	A36 (36 ksi)
T10 20.000-0.000	Pipe	P8x.5	A53-B-35 (35 ksi)	Single Angle	L3 1/2x3 1/2x1/4	A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 180.000-168.000	Single Angle	L2x1 1/2x3/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T9 40.000-20.000	Single Angle	L3 1/2x3 1/2x1/4	A36 (36 ksi)	Single Angle		A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 180.000-168.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T2 168.000-160.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T3 160.000-140.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T4 140.000-120.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T5 120.000-100.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T6 100.000-80.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T7 80.000-60.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T8 60.000-40.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T9 40.000-20.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T10 20.000-0.000	0.000	0.375	A36 (36 ksi)	1.05	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1 180.000-168.000	Yes	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T2 168.000-160.000	Yes	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T3	Yes	No	1	1	1	1	1	1	1	1

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
160.000-140.000				1	1	1	1	1	1	1
T4	Yes	No	1	1	1	1	1	1	1	1
140.000-120.000				1	1	1	1	1	1	1
T5	Yes	No	1	1	1	1	1	1	1	1
120.000-100.000				1	1	1	1	1	1	1
T6	Yes	No	1	1	1	1	1	1	1	1
100.000-80.000				1	1	1	1	1	1	1
T7	Yes	No	1	1	1	1	1	1	1	1
80.000-60.000				1	1	1	1	1	1	1
T8	Yes	No	1	1	1	1	1	1	1	1
60.000-40.000				1	1	1	1	1	1	1
T9	No	No	1	1	1	1	1	1	1	1
40.000-20.000				1	1	1	1	1	0.5	1
T10	Yes	No	1	1	1	1	1	1	1	1
20.000-0.000				1	1	1	1	1	1	1

[1]*Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.*

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Net Width Deduct in	Leg U	Diagonal Net Width Deduct in	Diagonal U	Top Girt Net Width Deduct in	Top Girt U	Bottom Girt Net Width Deduct in	Bottom Girt U	Mid Girt Net Width Deduct in	Mid Girt U	Long Horizontal Net Width Deduct in	Long Horizontal U	Short Horizontal Net Width Deduct in	Short Horizontal U
T1	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
180.000-168.000														
T2	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
168.000-160.000														
T3	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
160.000-140.000														
T4	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
140.000-120.000														
T5	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
120.000-100.000														
T6	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
100.000-80.000														
T7	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
80.000-60.000														
T8	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
60.000-40.000														

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T9 40.000-20.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T10 20.000-0.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 180.000-168.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T2 168.000-160.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T3 160.000-140.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T4 140.000-120.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 120.000-100.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 100.000-80.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 80.000-60.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 60.000-40.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 40.000-20.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T10 20.000-0.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 180.000-168.000	Flange	0.000 A325N	0	0.625 A325N	1	0.625 A325N	1	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T2 168.000-160.000	Flange	0.625 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0
T3 160.000-140.000	Flange	0.625 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0
T4 140.000-120.000	Flange	0.750 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0
T5 120.000-100.000	Flange	0.750 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0
T6 100.000-80.000	Flange	0.875 A490N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0
T7 80.000-60.000	Flange	0.875 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0
T8 60.000-40.000	Flange	1.000 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0
T9 40.000-20.000	Flange	1.000 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.500 A325N	1
T10 20.000-0.000	Flange	1.500 A36	0	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.000 A325N	0

Grouted Pipe Properties

Size	F_y ksi	A_s in^2	A_c in^2	Wt plf	E_c ksi	E_m ksi	F_{ym} ksi
P2x0.154 (GR)	35.000	1.075	3.356	10.647	4768.962	40914.218	53.581
P3x0.216 (GR)	35.000	2.228	7.393	22.984	4768.962	41656.327	54.738
P3.5x.318 (GR)	35.000	3.678	8.888	31.033	4768.962	38218.387	49.377
P4x.337 (GR)	35.000	4.407	11.497	38.949	4768.962	38951.934	50.521
P5x0.375 (GR)	35.000	6.112	18.194	58.701	4768.962	40356.758	52.712

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
LDF4-50A(1/2")	C	No	No	Ar (CaAa)	31.000 - 0.000	-1.000	-0.32	1	1	0.850 0.750	0.630		0.000
Feedline Ladder (Af) *	C	No	No	Af (CaAa)	180.000 - 0.000	-1.000	-0.33	2	1	3.000	3.000		0.008
Climbing Ladder	C	No	No	Af (CaAa)	180.000 - 0.000	0.000	0.025	1	1	3.000	3.000		0.008
Safety Line 3/8 *	C	No	No	Ar (CaAa)	180.000 - 0.000	0.000	0.025	1	1	0.375	0.375		0.000

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
HCS 6X12 4AWG(1-5/8)	B	No	No	Ar (CaAa)	93.000 - 0.000	0.000	0.05	4	2	0.850 0.750	1.660		0.002
LDF6-50A(1-1/4)	B	No	No	Ar (CaAa)	93.000 - 0.000	0.000	0.15	6	6	0.850 0.750	1.550		0.001
Feedline Ladder (Af) *	B	No	No	Af (CaAa)	93.000 - 0.000	0.000	0.1	1	1	3.000	3.000		0.008
LCF158-50JA-A0(1-5/8)	B	No	No	Ar (CaAa)	154.000 - 0.000	0.000	0.3	12	6	0.850 0.750	1.980		0.001
WR-VG82ST-BRDA(5/8)	B	No	No	Ar (CaAa)	154.000 - 0.000	0.000	0.365	3	2	0.500	0.645		0.000
WR-VG82ST-BRDA(5/8)	B	No	No	Ar (CaAa)	154.000 - 0.000	5.500	0.3	5	5	1.500 1.000	0.645		0.000
Feedline Ladder (Af)	B	No	No	Af (CaAa)	154.000 - 0.000	0.000	0.32	1	1	3.000	3.000		0.008
2-1/4" Rigid Conduit *	B	No	No	Ar (CaAa)	155.000 - 0.000	0.000	0.385	1	1	0.850 0.750	2.250		0.003
LDF5-50A(7/8) *	B	No	No	Ar (CaAa)	104.000 - 0.000	0.000	0.345	1	1	0.850 0.750	1.090		0.000
CU12PSM6P4XXX(1-3/4)	A	No	No	Ar (CaAa)	170.000 - 0.000	0.000	-0.09	1	1	0.850 0.750	1.750		0.003
LDF4-50A(1/2)	A	No	No	Ar (CaAa)	62.000 - 0.000	0.000	-0.1	4	2	0.500	0.630		0.000
LDF4-50A(1/2)	A	No	No	Ar (CaAa)	104.000 - 62.000	0.000	-0.1	3	2	0.500	0.630		0.000
LDF4-50A(1/2)	A	No	No	Ar (CaAa)	124.000 - 104.000	0.000	-0.1	2	2	0.500	0.630		0.000
Feedline Ladder (Af) *	A	No	No	Af (CaAa)	124.000 - 0.000	0.000	0	1	1	3.000	3.000		0.008
HB158-1-08U8-S8J18(1-5/8)	A	No	No	Ar (CaAa)	164.000 - 0.000	0.000	0.1	7	4	0.850 0.750	1.980		0.001
T-Brackets (Af) *	A	No	No	Af (CaAa)	164.000 - 0.000	0.000	0.1	1	1	1.000	1.000		0.008
FSJ4-50B(1/2") *	A	No	No	Ar (CaAa)	42.000 - 0.000	0.000	0.03	1	1	0.850 0.750	0.520		0.000
HB158-21U6S24-xxM_TMO (1-5/8)	B	No	No	Ar (CaAa)	143.000 - 0.000	0.000	-0.4	3	3	0.850 0.750	1.996		0.003
Feedline Ladder (Af) *	B	No	No	Af (CaAa)	143.000 - 0.000	0.000	-0.4	1	1	3.000	3.000		0.008
LDF5-50A(7/8") *	A	No	No	Ar (CaAa)	178.000 - 0.000	5.500	0.1	2	2	0.850 0.750	1.090		0.000
(3/8") Ground Cables * * *	A	No	No	Ar (CaAa)	162.000 - 0.000	0.000	-0.15	2	2	0.500	0.440		0.000

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C_AA_A ft^2/ft	Weight klf
*								
*								
*								

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	180.000-168.000	A	0.000	0.000	2.530	0.000	0.012
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	18.450	0.000	0.305
T2	168.000-160.000	A	0.000	0.000	9.531	0.000	0.097
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	12.300	0.000	0.203
T3	160.000-140.000	A	0.000	0.000	40.673	0.000	0.421
		B	0.000	0.000	54.159	0.000	0.379
		C	0.000	0.000	30.750	0.000	0.508
T4	140.000-120.000	A	0.000	0.000	43.177	0.000	0.456
		B	0.000	0.000	94.316	0.000	0.787
		C	0.000	0.000	30.750	0.000	0.508
T5	120.000-100.000	A	0.000	0.000	53.445	0.000	0.595
		B	0.000	0.000	94.752	0.000	0.788
		C	0.000	0.000	30.750	0.000	0.508
T6	100.000-80.000	A	0.000	0.000	54.453	0.000	0.598
		B	0.000	0.000	123.718	0.000	1.075
		C	0.000	0.000	30.750	0.000	0.508
T7	80.000-60.000	A	0.000	0.000	54.579	0.000	0.598
		B	0.000	0.000	138.376	0.000	1.226
		C	0.000	0.000	30.750	0.000	0.508
T8	60.000-40.000	A	0.000	0.000	55.817	0.000	0.601
		B	0.000	0.000	138.376	0.000	1.226
		C	0.000	0.000	30.750	0.000	0.508
T9	40.000-20.000	A	0.000	0.000	56.753	0.000	0.604
		B	0.000	0.000	138.376	0.000	1.226
		C	0.000	0.000	31.443	0.000	0.510
T10	20.000-0.000	A	0.000	0.000	56.753	0.000	0.604
		B	0.000	0.000	138.376	0.000	1.226
		C	0.000	0.000	32.010	0.000	0.511

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	180.000-168.000	A	1.004	0.000	0.000	8.143	0.000	0.064
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	28.086	0.000	0.547

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T2	168.000-160.000	A	0.998	0.000	0.000	18.477	0.000	0.255
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	18.686	0.000	0.364
T3	160.000-140.000	A	0.989	0.000	0.000	75.099	0.000	1.070
		B		0.000	0.000	85.365	0.000	1.208
		C		0.000	0.000	46.573	0.000	0.905
T4	140.000-120.000	A	0.975	0.000	0.000	79.736	0.000	1.131
		B		0.000	0.000	152.305	0.000	2.201
		C		0.000	0.000	46.348	0.000	0.897
T5	120.000-100.000	A	0.959	0.000	0.000	99.617	0.000	1.403
		B		0.000	0.000	152.895	0.000	2.191
		C		0.000	0.000	46.090	0.000	0.889
T6	100.000-80.000	A	0.940	0.000	0.000	100.316	0.000	1.403
		B		0.000	0.000	205.322	0.000	2.887
		C		0.000	0.000	45.785	0.000	0.880
T7	80.000-60.000	A	0.916	0.000	0.000	99.390	0.000	1.384
		B		0.000	0.000	230.016	0.000	3.208
		C		0.000	0.000	45.412	0.000	0.868
T8	60.000-40.000	A	0.886	0.000	0.000	98.646	0.000	1.374
		B		0.000	0.000	228.229	0.000	3.151
		C		0.000	0.000	44.927	0.000	0.853
T9	40.000-20.000	A	0.842	0.000	0.000	100.847	0.000	1.365
		B		0.000	0.000	225.629	0.000	3.070
		C		0.000	0.000	46.766	0.000	0.850
T10	20.000-0.000	A	0.754	0.000	0.000	97.027	0.000	1.289
		B		0.000	0.000	220.477	0.000	2.913
		C		0.000	0.000	47.097	0.000	0.819

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	180.000-168.000	0.618	4.016	0.373	3.670
T2	168.000-160.000	-1.194	1.804	-1.696	1.557
T3	160.000-140.000	3.850	1.266	3.374	1.233
T4	140.000-120.000	6.505	-1.128	5.977	-1.372
T5	120.000-100.000	6.036	-1.576	5.335	-1.896
T6	100.000-80.000	9.593	-2.072	9.141	-2.271
T7	80.000-60.000	12.227	-2.534	11.775	-2.741
T8	60.000-40.000	12.771	-2.700	12.695	-2.971
T9	40.000-20.000	12.151	-2.598	12.360	-2.910
T10	20.000-0.000	14.720	-2.923	14.545	-3.041

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	4	Feedline Ladder (Af)	168.00 - 180.00	0.6000	0.5970
T1	6	Climbing Ladder	168.00 -	0.6000	0.5970

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	7	Safety Line 3/8	180.00 168.00 - 180.00	0.6000	0.5970
T1	23	CU12PSM6P4XXX(1-3/4)	168.00 - 170.00	0.6000	0.5970
T1	39	LDF5-50A(7/8")	168.00 - 178.00	0.6000	0.5970
T2	4	Feedline Ladder (Af)	160.00 - 168.00	0.6000	0.6000
T2	6	Climbing Ladder	160.00 - 168.00	0.6000	0.6000
T2	7	Safety Line 3/8	160.00 - 168.00	0.6000	0.6000
T2	23	CU12PSM6P4XXX(1-3/4)	160.00 - 168.00	0.6000	0.6000
T2	30	HB158-1-08U8-S8J18(1-5/8)	160.00 - 164.00	0.6000	0.6000
T2	31	T-Brackets (Af)	160.00 - 164.00	0.6000	0.6000
T2	39	LDF5-50A(7/8")	160.00 - 168.00	0.6000	0.6000
T2	41	(3/8") Ground Cables	160.00 - 162.00	0.6000	0.6000
T3	4	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T3	6	Climbing Ladder	140.00 - 160.00	0.6000	0.6000
T3	7	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T3	13	LCF158-50JA-A0(1-5/8)	140.00 - 154.00	0.6000	0.6000
T3	14	WR-VG82ST-BRDA(5/8)	140.00 - 154.00	0.6000	0.6000
T3	16	WR-VG82ST-BRDA(5/8)	140.00 - 154.00	0.6000	0.6000
T3	18	Feedline Ladder (Af)	140.00 - 154.00	0.6000	0.6000
T3	19	2-1/4" Rigid Conduit	140.00 - 155.00	0.6000	0.6000
T3	23	CU12PSM6P4XXX(1-3/4)	140.00 - 160.00	0.6000	0.6000
T3	30	HB158-1-08U8-S8J18(1-5/8)	140.00 - 160.00	0.6000	0.6000
T3	31	T-Brackets (Af)	140.00 - 160.00	0.6000	0.6000
T3	36	HB158-21U6S24-xxM_TMO (1-5/8)	140.00 - 143.00	0.6000	0.6000
T3	37	Feedline Ladder (Af)	140.00 - 143.00	0.6000	0.6000
T3	39	LDF5-50A(7/8")	140.00 - 160.00	0.6000	0.6000
T3	41	(3/8") Ground Cables	140.00 - 160.00	0.6000	0.6000
T4	4	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	6	Climbing Ladder	120.00 - 140.00	0.6000	0.6000
T4	7	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T4	13	LCF158-50JA-A0(1-5/8)	120.00 - 140.00	0.6000	0.6000
T4	14	WR-VG82ST-BRDA(5/8)	120.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T4	16	WR-VG82ST-BRDA(5/8)	120.00 - 140.00	0.6000	0.6000
T4	18	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	19	2-1/4" Rigid Conduit	120.00 - 140.00	0.6000	0.6000
T4	23	CU12PSM6P4XXX(1-3/4)	120.00 - 140.00	0.6000	0.6000
T4	26	LDF4-50A(1/2)	120.00 - 124.00	0.6000	0.6000
T4	27	Feedline Ladder (Af)	120.00 - 124.00	0.6000	0.6000
T4	30	HB158-1-08U8-S8J18(1-5/8)	120.00 - 140.00	0.6000	0.6000
T4	31	T-Brackets (Af)	120.00 - 140.00	0.6000	0.6000
T4	36	HB158-21U6S24-xxM_TMO (1-5/8)	120.00 - 140.00	0.6000	0.6000
T4	37	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	39	LDF5-50A(7/8")	120.00 - 140.00	0.6000	0.6000
T4	41	(3/8") Ground Cables	120.00 - 140.00	0.6000	0.6000
T5	4	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	6	Climbing Ladder	100.00 - 120.00	0.6000	0.6000
T5	7	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000
T5	13	LCF158-50JA-A0(1-5/8)	100.00 - 120.00	0.6000	0.6000
T5	14	WR-VG82ST-BRDA(5/8)	100.00 - 120.00	0.6000	0.6000
T5	16	WR-VG82ST-BRDA(5/8)	100.00 - 120.00	0.6000	0.6000
T5	18	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	19	2-1/4" Rigid Conduit	100.00 - 120.00	0.6000	0.6000
T5	21	LDF5-50A(7/8)	100.00 - 104.00	0.6000	0.6000
T5	23	CU12PSM6P4XXX(1-3/4)	100.00 - 120.00	0.6000	0.6000
T5	25	LDF4-50A(1/2)	100.00 - 104.00	0.6000	0.6000
T5	26	LDF4-50A(1/2)	104.00 - 120.00	0.6000	0.6000
T5	27	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	30	HB158-1-08U8-S8J18(1-5/8)	100.00 - 120.00	0.6000	0.6000
T5	31	T-Brackets (Af)	100.00 - 120.00	0.6000	0.6000
T5	36	HB158-21U6S24-xxM_TMO (1-5/8)	100.00 - 120.00	0.6000	0.6000
T5	37	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	39	LDF5-50A(7/8")	100.00 - 120.00	0.6000	0.6000
T5	41	(3/8") Ground Cables	100.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			120.00		
T6	4	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	6	Climbing Ladder	80.00 - 100.00	0.6000	0.6000
T6	7	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T6	9	HCS 6X12 4AWG(1-5/8)	80.00 - 93.00	0.6000	0.6000
T6	10	LDF6-50A(1-1/4)	80.00 - 93.00	0.6000	0.6000
T6	11	Feedline Ladder (Af)	80.00 - 93.00	0.6000	0.6000
T6	13	LCF158-50JA-A0(1-5/8)	80.00 - 100.00	0.6000	0.6000
T6	14	WR-VG82ST-BRDA(5/8)	80.00 - 100.00	0.6000	0.6000
T6	16	WR-VG82ST-BRDA(5/8)	80.00 - 100.00	0.6000	0.6000
T6	18	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	19	2-1/4" Rigid Conduit	80.00 - 100.00	0.6000	0.6000
T6	21	LDF5-50A(7/8)	80.00 - 100.00	0.6000	0.6000
T6	23	CU12PSM6P4XXX(1-3/4)	80.00 - 100.00	0.6000	0.6000
T6	25	LDF4-50A(1/2)	80.00 - 100.00	0.6000	0.6000
T6	27	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	30	HB158-1-08U8-S8J18(1-5/8)	80.00 - 100.00	0.6000	0.6000
T6	31	T-Brackets (Af)	80.00 - 100.00	0.6000	0.6000
T6	36	HB158-21U6S24-xxM_TMO (1-5/8)	80.00 - 100.00	0.6000	0.6000
T6	37	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	39	LDF5-50A(7/8")	80.00 - 100.00	0.6000	0.6000
T6	41	(3/8") Ground Cables	80.00 - 100.00	0.6000	0.6000
T7	4	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	6	Climbing Ladder	60.00 - 80.00	0.6000	0.6000
T7	7	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T7	9	HCS 6X12 4AWG(1-5/8)	60.00 - 80.00	0.6000	0.6000
T7	10	LDF6-50A(1-1/4)	60.00 - 80.00	0.6000	0.6000
T7	11	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	13	LCF158-50JA-A0(1-5/8)	60.00 - 80.00	0.6000	0.6000
T7	14	WR-VG82ST-BRDA(5/8)	60.00 - 80.00	0.6000	0.6000
T7	16	WR-VG82ST-BRDA(5/8)	60.00 - 80.00	0.6000	0.6000
T7	18	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	19	2-1/4" Rigid Conduit	60.00 - 80.00	0.6000	0.6000
T7	21	LDF5-50A(7/8)	60.00 - 80.00	0.6000	0.6000
T7	23	CU12PSM6P4XXX(1-3/4)	60.00 - 80.00	0.6000	0.6000
T7	24	LDF4-50A(1/2)	60.00 - 62.00	0.6000	0.6000
T7	25	LDF4-50A(1/2)	62.00 - 80.00	0.6000	0.6000
T7	27	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	30	HB158-1-08U8-S8J18(1-5/8)	60.00 - 80.00	0.6000	0.6000
T7	31	T-Brackets (Af)	60.00 - 80.00	0.6000	0.6000
T7	36	HB158-21U6S24-xxM_TMO (1-5/8)	60.00 - 80.00	0.6000	0.6000
T7	37	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	39	LDF5-50A(7/8")	60.00 - 80.00	0.6000	0.6000
T7	41	(3/8") Ground Cables	60.00 - 80.00	0.6000	0.6000
T8	4	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	6	Climbing Ladder	40.00 - 60.00	0.6000	0.6000
T8	7	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T8	9	HCS 6X12 4AWG(1-5/8)	40.00 - 60.00	0.6000	0.6000
T8	10	LDF6-50A(1-1/4)	40.00 - 60.00	0.6000	0.6000
T8	11	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	13	LCF158-50JA-A0(1-5/8)	40.00 - 60.00	0.6000	0.6000
T8	14	WR-VG82ST-BRDA(5/8)	40.00 - 60.00	0.6000	0.6000
T8	16	WR-VG82ST-BRDA(5/8)	40.00 - 60.00	0.6000	0.6000
T8	18	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	19	2-1/4" Rigid Conduit	40.00 - 60.00	0.6000	0.6000
T8	21	LDF5-50A(7/8)	40.00 - 60.00	0.6000	0.6000
T8	23	CU12PSM6P4XXX(1-3/4)	40.00 - 60.00	0.6000	0.6000
T8	24	LDF4-50A(1/2)	40.00 - 60.00	0.6000	0.6000
T8	27	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	30	HB158-1-08U8-S8J18(1-5/8)	40.00 - 60.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T8	31	T-Brackets (Af)	40.00 - 60.00	0.6000	0.6000
T8	33	FSJ4-50B(1/2")	40.00 - 42.00	0.6000	0.6000
T8	36	HB158-21U6S24-xxM_TMO (1-5/8)	40.00 - 60.00	0.6000	0.6000
T8	37	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	39	LDF5-50A(7/8")	40.00 - 60.00	0.6000	0.6000
T8	41	(3/8") Ground Cables	40.00 - 60.00	0.6000	0.6000
T9	3	LDF4-50A(1/2")	20.00 - 31.00	0.6000	0.6000
T9	4	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	6	Climbing Ladder	20.00 - 40.00	0.6000	0.6000
T9	7	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T9	9	HCS 6X12 4AWG(1-5/8)	20.00 - 40.00	0.6000	0.6000
T9	10	LDF6-50A(1-1/4)	20.00 - 40.00	0.6000	0.6000
T9	11	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	13	LCF158-50JA-A0(1-5/8)	20.00 - 40.00	0.6000	0.6000
T9	14	WR-VG82ST-BRDA(5/8)	20.00 - 40.00	0.6000	0.6000
T9	16	WR-VG82ST-BRDA(5/8)	20.00 - 40.00	0.6000	0.6000
T9	18	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	19	2-1/4" Rigid Conduit	20.00 - 40.00	0.6000	0.6000
T9	21	LDF5-50A(7/8)	20.00 - 40.00	0.6000	0.6000
T9	23	CU12PSM6P4XXX(1-3/4)	20.00 - 40.00	0.6000	0.6000
T9	24	LDF4-50A(1/2)	20.00 - 40.00	0.6000	0.6000
T9	27	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	30	HB158-1-08U8-S8J18(1-5/8)	20.00 - 40.00	0.6000	0.6000
T9	31	T-Brackets (Af)	20.00 - 40.00	0.6000	0.6000
T9	33	FSJ4-50B(1/2")	20.00 - 40.00	0.6000	0.6000
T9	36	HB158-21U6S24-xxM_TMO (1-5/8)	20.00 - 40.00	0.6000	0.6000
T9	37	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	39	LDF5-50A(7/8")	20.00 - 40.00	0.6000	0.6000
T9	41	(3/8") Ground Cables	20.00 - 40.00	0.6000	0.6000
T10	3	LDF4-50A(1/2")	0.00 - 20.00	0.6000	0.6000
T10	4	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	6	Climbing Ladder	0.00 - 20.00	0.6000	0.6000
T10	7	Safety Line 3/8	0.00 - 20.00	0.6000	0.6000
T10	9	HCS 6X12 4AWG(1-5/8)	0.00 - 20.00	0.6000	0.6000
T10	10	LDF6-50A(1-1/4)	0.00 - 20.00	0.6000	0.6000
T10	11	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	13	LCF158-50JA-A0(1-5/8)	0.00 - 20.00	0.6000	0.6000
T10	14	WR-VG82ST-BRDA(5/8)	0.00 - 20.00	0.6000	0.6000
T10	16	WR-VG82ST-BRDA(5/8)	0.00 - 20.00	0.6000	0.6000
T10	18	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	19	2-1/4" Rigid Conduit	0.00 - 20.00	0.6000	0.6000
T10	21	LDF5-50A(7/8)	0.00 - 20.00	0.6000	0.6000
T10	23	CU12PSM6P4XXX(1-3/4)	0.00 - 20.00	0.6000	0.6000
T10	24	LDF4-50A(1/2)	0.00 - 20.00	0.6000	0.6000
T10	27	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	30	HB158-1-08U8-S8J18(1-5/8)	0.00 - 20.00	0.6000	0.6000
T10	31	T-Brackets (Af)	0.00 - 20.00	0.6000	0.6000
T10	33	FSJ4-50B(1/2")	0.00 - 20.00	0.6000	0.6000
T10	36	HB158-21U6S24-xxM_TMO (1-5/8)	0.00 - 20.00	0.6000	0.6000
T10	37	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	39	LDF5-50A(7/8")	0.00 - 20.00	0.6000	0.6000
T10	41	(3/8") Ground Cables	0.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral / Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
PD10017	A	From Leg	0.500 0.000 6.000	0.000	178.000	No Ice 1/2" Ice 1" Ice	4.114 5.641 7.185	4.114 5.641 7.185	0.025 0.055 0.095
*									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
TA08025-B604	A	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B604	B	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B604	C	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B605	A	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	1.129 1.267 1.411	0.075 0.093 0.114
TA08025-B605	B	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	1.129 1.267 1.411	0.075 0.093 0.114
TA08025-B605	C	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	1.129 1.267 1.411	0.075 0.093 0.114
RDIDC-9181-PF-48	A	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	2.012 2.189 2.373	1.168 1.311 1.461	0.022 0.040 0.060
(2) 8' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
(2) 8' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
(2) 8' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
Commscope MTC3975083 (3)	C	None		0.000	170.000	No Ice 1/2" Ice 1" Ice	23.850 34.120 44.390	23.850 34.120 44.390	1.260 1.803 2.345
* *									
(2) RFV01U-D1A	A	From Leg	4.000 0.000 2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D1A	B	From Leg	4.000 0.000 2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
RFV01U-D2A	A	From Leg	4.000 0.000 2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
(2) RFV01U-D2A	B	From Leg	4.000 0.000 2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
DB-T1-6Z-8AB-0Z	B	From Leg	4.000 0.000 2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	4.800 5.070 5.348	2.000 2.193 2.393	0.044 0.080 0.120
(2) APL868013 w/ Mount Pipe	A	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	2.630 3.070 3.530	4.130 4.600 5.090	0.030 0.064 0.106
(2) APL868013 w/ Mount Pipe	B	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	2.630 3.070 3.530	4.130 4.600 5.090	0.030 0.064 0.106
(2) APL868013 w/ Mount Pipe	C	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	2.630 3.070 3.530	4.130 4.600 5.090	0.030 0.064 0.106
(2) JAHH-65B-R3B w/ Mount Pipe	A	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	5.500 5.970 6.450	4.380 4.840 5.300	0.096 0.169 0.254
(2) JAHH-65B-R3B w/ Mount Pipe	B	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	5.500 5.970 6.450	4.380 4.840 5.300	0.096 0.169 0.254
(2) JAHH-65B-R3B w/ Mount Pipe	C	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	5.500 5.970 6.450	4.380 4.840 5.300	0.096 0.169 0.254
CBRS w/ Mount Pipe	A	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.450 1.670 1.900	0.990 1.180 1.390	0.032 0.048 0.068
CBRS w/ Mount Pipe	B	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.450 1.670 1.900	0.990 1.180 1.390	0.032 0.048 0.068
CBRS w/ Mount Pipe	C	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.450 1.670 1.900	0.990 1.180 1.390	0.032 0.048 0.068
MT6407-77A w/ Mount Pipe	A	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
MT6407-77A w/ Mount Pipe	B	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
MT6407-77A w/ Mount Pipe	C	From Leg	4.000 0.000 -2.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	4.907 5.256 5.615	2.682 3.145 3.624	0.096 0.136 0.180
(2) 6' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
(2) 6' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
(2) 6' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	164.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
Sector Mount [SM 702-3](16')	C	None		0.000	164.000	No Ice 1/2" Ice 1" Ice	47.865 62.031 76.025	47.865 62.031 76.025	1.909 2.805 3.959

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
*									
7770.00 w/ Mount Pipe	A	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	5.746 6.179 6.607	4.254 5.014 5.711	0.055 0.103 0.157
7770.00 w/ Mount Pipe	B	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	5.746 6.179 6.607	4.254 5.014 5.711	0.055 0.103 0.157
7770.00 w/ Mount Pipe	C	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	5.746 6.179 6.607	4.254 5.014 5.711	0.055 0.103 0.157
QS66512-2 w/ Mount Pipe	A	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	4.040 4.420 4.820	4.180 4.570 4.970	0.137 0.206 0.287
QS66512-2 w/ Mount Pipe	B	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	4.040 4.420 4.820	4.180 4.570 4.970	0.137 0.206 0.287
QS66512-2 w/ Mount Pipe	C	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	4.040 4.420 4.820	4.180 4.570 4.970	0.137 0.206 0.287
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	12.250 13.000 13.760	6.050 6.710 7.390	0.089 0.176 0.275
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	12.250 13.000 13.760	6.050 6.710 7.390	0.089 0.176 0.275
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	12.250 13.000 13.760	6.050 6.710 7.390	0.089 0.176 0.275
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	11.960 12.700 13.460	5.970 6.630 7.300	0.115 0.201 0.298
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	11.960 12.700 13.460	5.970 6.630 7.300	0.115 0.201 0.298
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	11.960 12.700 13.460	5.970 6.630 7.300	0.115 0.201 0.298
(2) LGP21401	A	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	1.104 1.239 1.381	0.207 0.274 0.348	0.014 0.021 0.030
(2) LGP21401	B	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	1.104 1.239 1.381	0.207 0.274 0.348	0.014 0.021 0.030
(2) LGP21401	C	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	1.104 1.239 1.381	0.207 0.274 0.348	0.014 0.021 0.030
RRUS 32 B30	A	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	2.692 2.912 3.138	1.573 1.756 1.945	0.060 0.080 0.104
RRUS 32 B30	B	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	2.692 2.912 3.138	1.573 1.756 1.945	0.060 0.080 0.104
RRUS 32 B30	C	From Leg	4.000 0.000 4.000	0.000	154.000	No Ice 1/2" Ice 1" Ice	2.692 2.912 3.138	1.573 1.756 1.945	0.060 0.080 0.104
RRUS 32 B2	A	From Leg	4.000 0.000	0.000	154.000	No Ice 1/2" Ice	2.731 2.953	1.668 1.855	0.053 0.074

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			4.000			1" Ice	3.182	2.049	0.098
RRUS 32 B2	B	From Leg	4.000	0.000	154.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			4.000			1" Ice	3.182	2.049	0.098
RRUS 32 B2	C	From Leg	4.000	0.000	154.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			4.000			1" Ice	3.182	2.049	0.098
DBC0061F1V51-2	A	From Leg	4.000	0.000	154.000	No Ice	0.433	0.413	0.025
			0.000			1/2" Ice	0.518	0.496	0.031
			4.000			1" Ice	0.609	0.586	0.038
DBC0061F1V51-2	B	From Leg	4.000	0.000	154.000	No Ice	0.433	0.413	0.025
			0.000			1/2" Ice	0.518	0.496	0.031
			4.000			1" Ice	0.609	0.586	0.038
DBC0061F1V51-2	C	From Leg	4.000	0.000	154.000	No Ice	0.433	0.413	0.025
			0.000			1/2" Ice	0.518	0.496	0.031
			4.000			1" Ice	0.609	0.586	0.038
RRUS 4478 B14	A	From Leg	4.000	0.000	154.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			4.000			1" Ice	2.190	1.342	0.094
RRUS 4478 B14	B	From Leg	4.000	0.000	154.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			4.000			1" Ice	2.190	1.342	0.094
RRUS 4478 B14	C	From Leg	4.000	0.000	154.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			4.000			1" Ice	2.190	1.342	0.094
RRUS 4449 B5/B12	A	From Leg	4.000	0.000	154.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			4.000			1" Ice	2.328	1.727	0.111
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	154.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			4.000			1" Ice	2.328	1.727	0.111
RRUS 4449 B5/B12	C	From Leg	4.000	0.000	154.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			4.000			1" Ice	2.328	1.727	0.111
(3) DC6-48-60-18-8F	A	From Leg	4.000	0.000	154.000	No Ice	0.850	0.850	0.019
			0.000			1/2" Ice	1.356	1.356	0.036
			4.000			1" Ice	1.532	1.532	0.055
(2) 5' x 2" Pipe Mount	A	From Leg	4.000	0.000	154.000	No Ice	1.188	1.188	0.018
			0.000			1/2" Ice	1.496	1.496	0.027
			0.000			1" Ice	1.807	1.807	0.040
(2) 5' x 2" Pipe Mount	B	From Leg	4.000	0.000	154.000	No Ice	1.188	1.188	0.018
			0.000			1/2" Ice	1.496	1.496	0.027
			0.000			1" Ice	1.807	1.807	0.040
(2) 5' x 2" Pipe Mount	C	From Leg	4.000	0.000	154.000	No Ice	1.188	1.188	0.018
			0.000			1/2" Ice	1.496	1.496	0.027
			0.000			1" Ice	1.807	1.807	0.040
12.5' x 2.375" Horizontal Mount Pipe	A	From Leg	4.000	0.000	154.000	No Ice	2.980	0.010	0.046
			0.000			1/2" Ice	4.250	0.050	0.068
			0.000			1" Ice	5.550	0.100	0.981
12.5' x 2.375" Horizontal Mount Pipe	B	From Leg	4.000	0.000	154.000	No Ice	2.980	0.010	0.046
			0.000			1/2" Ice	4.250	0.050	0.068
			0.000			1" Ice	5.550	0.100	0.981
12.5' x 2.375" Horizontal Mount Pipe	C	From Leg	4.000	0.000	154.000	No Ice	2.980	0.010	0.046
			0.000			1/2" Ice	4.250	0.050	0.068
			0.000			1" Ice	5.550	0.100	0.981
Sector Mount [SM 1303-3]	C	None		0.000	154.000	No Ice	38.780	38.780	1.104
						1/2" Ice	46.780	46.780	1.763

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Offsets: Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
							1" Ice	54.730	54.730	2.567
Pipe Mount [PM 601-3]	C	None			0.000	154.000	No Ice	3.170	3.170	0.195
							1/2" Ice	3.790	3.790	0.232
							1" Ice	4.420	4.420	0.279
*										
800 EXTERNAL NOTCH FILTER	A	From Leg	1.000		0.000	145.000	No Ice	0.660	0.321	0.011
			0.000				1/2" Ice	0.763	0.398	0.017
			1.000				1" Ice	0.873	0.483	0.024
800 EXTERNAL NOTCH FILTER	B	From Leg	1.000		0.000	145.000	No Ice	0.660	0.321	0.011
			0.000				1/2" Ice	0.763	0.398	0.017
			1.000				1" Ice	0.873	0.483	0.024
800 EXTERNAL NOTCH FILTER	C	From Leg	1.000		0.000	145.000	No Ice	0.660	0.321	0.011
			0.000				1/2" Ice	0.763	0.398	0.017
			1.000				1" Ice	0.873	0.483	0.024
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	1.000		0.000	145.000	No Ice	2.322	2.238	0.060
			0.000				1/2" Ice	2.527	2.441	0.083
			1.000				1" Ice	2.739	2.651	0.110
PCS 1900MHZ 4X45W-65MHZ	B	From Leg	1.000		0.000	145.000	No Ice	2.322	2.238	0.060
			0.000				1/2" Ice	2.527	2.441	0.083
			1.000				1" Ice	2.739	2.651	0.110
PCS 1900MHZ 4X45W-65MHZ	C	From Leg	1.000		0.000	145.000	No Ice	2.322	2.238	0.060
			0.000				1/2" Ice	2.527	2.441	0.083
			1.000				1" Ice	2.739	2.651	0.110
800MHZ 2X50W RRH	A	From Leg	1.000		0.000	145.000	No Ice	2.134	1.773	0.053
			0.000				1/2" Ice	2.320	1.946	0.074
			1.000				1" Ice	2.512	2.127	0.098
800MHZ 2X50W RRH	B	From Leg	1.000		0.000	145.000	No Ice	2.134	1.773	0.053
			0.000				1/2" Ice	2.320	1.946	0.074
			1.000				1" Ice	2.512	2.127	0.098
800MHZ 2X50W RRH	C	From Leg	1.000		0.000	145.000	No Ice	2.134	1.773	0.053
			0.000				1/2" Ice	2.320	1.946	0.074
			1.000				1" Ice	2.512	2.127	0.098
*										
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	A	From Leg	4.000		0.000	143.000	No Ice	14.690	6.870	0.183
			0.000				1/2" Ice	15.460	7.550	0.311
			0.000				1" Ice	16.230	8.250	0.453
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	B	From Leg	4.000		0.000	143.000	No Ice	14.690	6.870	0.183
			0.000				1/2" Ice	15.460	7.550	0.311
			0.000				1" Ice	16.230	8.250	0.453
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	C	From Leg	4.000		0.000	143.000	No Ice	14.690	6.870	0.183
			0.000				1/2" Ice	15.460	7.550	0.311
			0.000				1" Ice	16.230	8.250	0.453
VV-65A-R1_TMO w/ Mount Pipe	A	From Leg	4.000		0.000	143.000	No Ice	4.460	2.690	0.054
			0.000				1/2" Ice	4.910	3.100	0.097
			0.000				1" Ice	5.360	3.520	0.149
VV-65A-R1_TMO w/ Mount Pipe	B	From Leg	4.000		0.000	143.000	No Ice	4.460	2.690	0.054
			0.000				1/2" Ice	4.910	3.100	0.097
			0.000				1" Ice	5.360	3.520	0.149
VV-65A-R1_TMO w/ Mount Pipe	C	From Leg	4.000		0.000	143.000	No Ice	4.460	2.690	0.054
			0.000				1/2" Ice	4.910	3.100	0.097
			0.000				1" Ice	5.360	3.520	0.149
AIR6449 B41_T-MOBILE	A	From Leg	4.000		0.000	143.000	No Ice	5.270	2.030	0.115
			0.000				1/2" Ice	5.700	2.360	0.154
			0.000				1" Ice	6.140	2.700	0.197
AIR6449 B41_T-MOBILE	B	From Leg	4.000		0.000	143.000	No Ice	5.270	2.030	0.115
			0.000				1/2" Ice	5.700	2.360	0.154
			0.000				1" Ice	6.140	2.700	0.197

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
AIR6449 B41_T-MOBILE	C	From Leg	4.000	0.000	143.000	No Ice	5.270	2.030	0.115
			0.000			1/2" Ice	5.700	2.360	0.154
			0.000			1" Ice	6.140	2.700	0.197
Radio 4480_TMOV2	A	From Leg	4.000	0.000	143.000	No Ice	2.878	1.397	0.081
			0.000			1/2" Ice	3.091	1.558	0.103
			0.000			1" Ice	3.312	1.727	0.128
Radio 4480_TMOV2	B	From Leg	4.000	0.000	143.000	No Ice	2.878	1.397	0.081
			0.000			1/2" Ice	3.091	1.558	0.103
			0.000			1" Ice	3.312	1.727	0.128
Radio 4480_TMOV2	C	From Leg	4.000	0.000	143.000	No Ice	2.878	1.397	0.081
			0.000			1/2" Ice	3.091	1.558	0.103
			0.000			1" Ice	3.312	1.727	0.128
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.000	0.000	143.000	No Ice	2.139	1.686	0.109
			0.000			1/2" Ice	2.321	1.850	0.131
			0.000			1" Ice	2.511	2.022	0.156
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.000	0.000	143.000	No Ice	2.139	1.686	0.109
			0.000			1/2" Ice	2.321	1.850	0.131
			0.000			1" Ice	2.511	2.022	0.156
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.000	0.000	143.000	No Ice	2.139	1.686	0.109
			0.000			1/2" Ice	2.321	1.850	0.131
			0.000			1" Ice	2.511	2.022	0.156
(2) 8' x 2" Mount Pipe	A	From Leg	4.000	0.000	143.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
(2) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	143.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	143.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
Site Pro1 VFA12-HD Mount	A	From Leg	2.000	0.000	143.000	No Ice	13.200	13.200	0.658
			0.000			1/2" Ice	19.500	19.500	0.804
			0.000			1" Ice	25.800	25.800	1.015
Site Pro1 VFA12-HD Mount	B	From Leg	2.000	0.000	143.000	No Ice	13.200	13.200	0.658
			0.000			1/2" Ice	19.500	19.500	0.804
			0.000			1" Ice	25.800	25.800	1.015
Site Pro1 VFA12-HD Mount	C	From Leg	2.000	0.000	143.000	No Ice	13.200	13.200	0.658
			0.000			1/2" Ice	19.500	19.500	0.804
			0.000			1" Ice	25.800	25.800	1.015
*									
1142-2C	B	From Leg	6.000	0.000	124.000	No Ice	2.092	2.092	0.024
			0.000			1/2" Ice	3.374	3.374	0.041
			7.000			1" Ice	4.673	4.673	0.066
1142-2C	C	From Leg	6.000	0.000	124.000	No Ice	2.092	2.092	0.024
			0.000			1/2" Ice	3.374	3.374	0.041
			7.000			1" Ice	4.673	4.673	0.066
Side Arm Mount [SO 303-1]	B	From Leg	3.000	0.000	124.000	No Ice	1.080	5.310	0.115
			0.000			1/2" Ice	1.630	7.570	0.158
			0.000			1" Ice	2.210	9.930	0.217
Side Arm Mount [SO 303-1]	C	From Leg	3.000	0.000	124.000	No Ice	1.080	5.310	0.115
			0.000			1/2" Ice	1.630	7.570	0.158
			0.000			1" Ice	2.210	9.930	0.217
*									
220-3BN	B	From Leg	6.000	0.000	104.000	No Ice	5.720	5.720	0.024
			0.000			1/2" Ice	7.831	7.831	0.066
			4.000			1" Ice	9.959	9.959	0.120
1142-2C	C	From Leg	6.000	0.000	104.000	No Ice	2.092	2.092	0.024

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1/2" Ice	3.374	3.374	0.041
			7.000			1" Ice	4.673	4.673	0.066
Side Arm Mount [SO 303-1]	B	From Leg	3.000	0.000	104.000	No Ice	1.080	5.310	0.115
			0.000			1/2" Ice	1.630	7.570	0.158
			0.000			1" Ice	2.210	9.930	0.217
Side Arm Mount [SO 303-1]	C	From Leg	3.000	0.000	104.000	No Ice	1.080	5.310	0.115
			0.000			1/2" Ice	1.630	7.570	0.158
			0.000			1" Ice	2.210	9.930	0.217
*									
APXVAARR24_43-U-NA20	A	From Leg	4.000	0.000	93.000	No Ice	14.670	5.320	0.153
			0.000			1/2" Ice	15.430	5.990	0.266
			0.000			1" Ice	16.210	6.680	0.387
APXVAARR24_43-U-NA20	B	From Leg	4.000	0.000	93.000	No Ice	14.670	5.320	0.153
			0.000			1/2" Ice	15.430	5.990	0.266
			0.000			1" Ice	16.210	6.680	0.387
APXVAARR24_43-U-NA20	C	From Leg	4.000	0.000	93.000	No Ice	14.670	5.320	0.153
			0.000			1/2" Ice	15.430	5.990	0.266
			0.000			1" Ice	16.210	6.680	0.387
AIR 32 B2a/B66Aa	A	From Leg	4.000	0.000	93.000	No Ice	3.860	2.510	0.172
			0.000			1/2" Ice	4.230	2.860	0.220
			0.000			1" Ice	4.610	3.220	0.273
AIR 32 B2a/B66Aa	B	From Leg	4.000	0.000	93.000	No Ice	3.860	2.510	0.172
			0.000			1/2" Ice	4.230	2.860	0.220
			0.000			1" Ice	4.610	3.220	0.273
AIR 32 B2a/B66Aa	C	From Leg	4.000	0.000	93.000	No Ice	3.860	2.510	0.172
			0.000			1/2" Ice	4.230	2.860	0.220
			0.000			1" Ice	4.610	3.220	0.273
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000	0.000	93.000	No Ice	3.140	2.590	0.112
			0.000			1/2" Ice	3.450	2.880	0.164
			0.000			1" Ice	3.770	3.190	0.225
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.000	0.000	93.000	No Ice	3.140	2.590	0.112
			0.000			1/2" Ice	3.450	2.880	0.164
			0.000			1" Ice	3.770	3.190	0.225
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000	0.000	93.000	No Ice	3.140	2.590	0.112
			0.000			1/2" Ice	3.450	2.880	0.164
			0.000			1" Ice	3.770	3.190	0.225
KRY 112 144/1	A	From Leg	4.000	0.000	93.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014
			0.000			1" Ice	0.509	0.301	0.019
KRY 112 144/1	B	From Leg	4.000	0.000	93.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014
			0.000			1" Ice	0.509	0.301	0.019
KRY 112 144/1	C	From Leg	4.000	0.000	93.000	No Ice	0.350	0.175	0.011
			0.000			1/2" Ice	0.426	0.234	0.014
			0.000			1" Ice	0.509	0.301	0.019
RADIO 4449 B12/B71	A	From Leg	4.000	0.000	93.000	No Ice	1.650	1.163	0.074
			0.000			1/2" Ice	1.810	1.301	0.090
			0.000			1" Ice	1.978	1.447	0.109
RADIO 4449 B12/B71	B	From Leg	4.000	0.000	93.000	No Ice	1.650	1.163	0.074
			0.000			1/2" Ice	1.810	1.301	0.090
			0.000			1" Ice	1.978	1.447	0.109
RADIO 4449 B12/B71	C	From Leg	4.000	0.000	93.000	No Ice	1.650	1.163	0.074
			0.000			1/2" Ice	1.810	1.301	0.090
			0.000			1" Ice	1.978	1.447	0.109
Sector Mount [SM 404-3]	C	None		0.000	93.000	No Ice	20.430	20.430	0.920
						1/2" Ice	28.680	28.680	1.311
						1" Ice	36.800	36.800	1.839

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
*									
GPS_A	C	From Leg	3.000 0.000 3.000	0.000	62.000	No Ice 1/2" Ice 1" Ice	0.255 0.320 0.393	0.255 0.320 0.393	0.001 0.005 0.010
Side Arm Mount [SO 305-1]	C	From Leg	1.500 0.000 0.000	0.000	62.000	No Ice 1/2" Ice 1" Ice	0.530 0.780 1.060	1.520 2.070 2.660	0.030 0.044 0.064
*									
GPS_A	C	From Leg	3.000 0.000 2.000	0.000	42.000	No Ice 1/2" Ice 1" Ice	0.255 0.320 0.393	0.255 0.320 0.393	0.001 0.005 0.010
Side Arm Mount [SO 305-1]	C	From Leg	1.500 0.000 0.000	0.000	42.000	No Ice 1/2" Ice 1" Ice	0.530 0.780 1.060	1.520 2.070 2.660	0.030 0.044 0.064
*									
GPS_A	C	From Leg	3.000 0.000 1.000	0.000	31.000	No Ice 1/2" Ice 1" Ice	0.255 0.320 0.393	0.255 0.320 0.393	0.001 0.005 0.010
Side Arm Mount [SO 701-1]	C	From Leg	1.500 0.000 0.000	0.000	31.000	No Ice 1/2" Ice 1" Ice	0.850 1.140 1.430	1.670 2.340 3.010	0.065 0.079 0.093
*									
(2) 3'x8" Knife Plate	A	From Leg	0.000 0.000 0.000	0.000	20.000	No Ice 1/2" Ice 1" Ice	2.333 2.625 2.917	0.250 0.500 0.750	0.048 0.054 0.060
(2) 3'x8" Knife Plate	B	From Leg	0.000 0.000 0.000	0.000	20.000	No Ice 1/2" Ice 1" Ice	2.333 2.625 2.917	0.250 0.500 0.750	0.048 0.054 0.060
(2) 3'x8" Knife Plate	C	From Leg	0.000 0.000 0.000	0.000	20.000	No Ice 1/2" Ice 1" Ice	2.333 2.625 2.917	0.250 0.500 0.750	0.048 0.054 0.060
(2) 3'x8" Knife Plate	A	From Leg	0.000 0.000 0.000	0.000	60.000	No Ice 1/2" Ice 1" Ice	2.333 2.625 2.917	0.250 0.500 0.750	0.048 0.054 0.060
(2) 3'x8" Knife Plate	B	From Leg	0.000 0.000 0.000	0.000	60.000	No Ice 1/2" Ice 1" Ice	2.333 2.625 2.917	0.250 0.500 0.750	0.048 0.054 0.060
(2) 3'x8" Knife Plate	C	From Leg	0.000 0.000 0.000	0.000	60.000	No Ice 1/2" Ice 1" Ice	2.333 2.625 2.917	0.250 0.500 0.750	0.048 0.054 0.060
*									

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice

Comb. No.	Description
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	180 - 168	Leg	Max Tension	7	1.670	-0.151	0.085
			Max. Compression	10	-3.050	-0.149	-0.096
			Max. Mx	8	-1.005	0.345	0.008
			Max. My	14	1.553	-0.001	0.349
			Max. Vy	20	-0.300	0.250	0.008
			Max. Vx	14	0.291	0.027	-0.232
		Diagonal	Max Tension	13	0.695	0.000	0.000
			Max. Compression	24	-0.803	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	16	0.260	0.011	0.001
			Max. My	24	0.670	0.007	-0.003
			Max. Vy	34	-0.011	0.011	0.000
			Max. Vx	24	-0.001	0.005	-0.003
		Top Girt	Max Tension	18	0.185	0.000	0.000
			Max. Compression	23	-0.143	0.000	0.000
			Max. Mx	26	0.048	-0.014	0.000
			Max. Vy	26	0.014	0.000	0.000
T2	168 - 160	Leg	Max Tension	7	8.141	-0.005	0.002
			Max. Compression	10	-12.062	0.008	0.000
			Max. Mx	20	-1.247	0.250	0.008
			Max. My	14	-3.250	0.027	-0.232
			Max. Vy	20	1.029	-0.020	0.052
			Max. Vx	2	1.068	0.061	-0.088
		Diagonal	Max Tension	25	2.870	0.000	0.000
			Max. Compression	12	-3.027	0.000	0.000
			Max. Mx	8	-1.806	-0.021	0.002
			Max. My	24	2.846	0.017	-0.005
			Max. Vy	33	-0.014	0.019	0.001
			Max. Vx	24	-0.002	0.009	-0.005
T3	160 - 140	Leg	Max Tension	7	40.727	-0.441	-0.013
			Max. Compression	10	-53.248	0.424	0.005
			Max. Mx	14	35.885	0.598	0.016
			Max. My	20	-5.113	-0.018	0.743
			Max. Vy	14	-1.041	-0.536	0.010
			Max. Vx	8	0.993	-0.031	0.253
		Diagonal	Max Tension	25	4.317	0.000	0.000
			Max. Compression	24	-4.416	0.000	0.000
			Max. Mx	10	3.215	0.027	0.002
			Max. My	24	-3.963	-0.011	-0.004
			Max. Vy	31	-0.015	0.020	-0.001
			Max. Vx	24	0.001	0.000	0.000
T4	140 - 120	Leg	Max Tension	7	73.720	-0.292	-0.059
			Max. Compression	10	-90.676	0.312	-0.028
			Max. Mx	22	48.733	-0.521	-0.008
			Max. My	4	-7.563	-0.053	-0.583
			Max. Vy	22	-0.097	-0.521	-0.008
			Max. Vx	19	0.146	-0.151	0.327
		Diagonal	Max Tension	20	5.269	0.000	0.000
			Max. Compression	20	-5.298	0.000	0.000
			Max. Mx	10	4.151	0.028	-0.001
			Max. My	28	1.088	0.022	-0.003
			Max. Vy	31	-0.020	0.027	-0.003
			Max. Vx	28	0.001	0.000	0.000
T5	120 - 100	Leg	Max Tension	7	102.479	-0.354	-0.073
			Max. Compression	10	-122.864	0.455	-0.022
			Max. Mx	2	-116.832	0.459	-0.049
			Max. My	4	-10.818	-0.016	-0.559
			Max. Vy	3	-0.104	0.459	-0.049
			Max. Vx	4	-0.185	-0.037	-0.483
		Diagonal	Max Tension	20	4.963	0.000	0.000
			Max. Compression	20	-5.020	0.000	0.000
			Max. Mx	10	4.117	0.043	-0.002
			Max. My	28	1.040	0.035	-0.005
			Max. Vy	31	-0.027	0.042	-0.004
			Max. Vx	28	0.002	0.000	0.000
T6	100 - 80	Leg	Max Tension	7	128.813	-0.471	-0.011
			Max. Compression	10	-154.896	0.825	0.037
			Max. Mx	18	-154.101	0.839	0.046
			Max. My	4	-14.018	0.011	-0.695
			Max. Vy	22	-0.571	-0.567	-0.028

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	16	0.515	-0.013	0.418
		Diagonal	Max Tension	20	5.797	0.000	0.000
			Max. Compression	20	-5.803	0.000	0.000
			Max. Mx	31	1.376	0.049	0.006
			Max. My	29	-1.272	0.039	-0.007
			Max. Vy	29	0.035	0.048	-0.006
			Max. Vx	29	0.002	0.000	0.000
T7	80 - 60	Leg	Max Tension	7	152.811	-0.701	-0.033
			Max. Compression	10	-182.112	1.088	0.050
			Max. Mx	18	-181.766	1.108	0.069
			Max. My	8	-14.701	-0.092	1.081
			Max. Vy	18	-0.125	1.108	0.069
			Max. Vx	4	0.153	-0.093	-1.078
		Diagonal	Max Tension	20	6.755	0.000	0.000
			Max. Compression	20	-6.800	0.000	0.000
			Max. Mx	31	1.543	0.086	0.011
			Max. My	34	1.679	0.082	0.012
			Max. Vy	29	0.047	0.083	-0.012
			Max. Vx	34	-0.003	0.000	0.000
T8	60 - 40	Leg	Max Tension	7	177.613	-0.939	-0.032
			Max. Compression	18	-211.110	-0.135	0.029
			Max. Mx	18	-196.215	1.108	0.069
			Max. My	8	-16.337	-0.074	0.979
			Max. Vy	22	-0.175	-0.952	-0.044
			Max. Vx	4	0.130	-0.074	-0.977
		Diagonal	Max Tension	20	7.123	0.000	0.000
			Max. Compression	20	-7.188	0.000	0.000
			Max. Mx	18	5.541	0.133	0.012
			Max. My	28	1.759	0.119	-0.017
			Max. Vy	29	0.064	0.120	0.016
			Max. Vx	28	0.004	0.000	0.000
T9	40 - 20	Leg	Max Tension	7	200.524	1.533	-0.021
			Max. Compression	18	-238.772	-0.418	0.030
			Max. Mx	18	-224.722	3.371	-0.011
			Max. My	8	-18.624	-0.451	1.990
			Max. Vy	18	-1.191	3.303	-0.012
			Max. Vx	4	0.483	-0.460	-1.917
		Diagonal	Max Tension	21	7.427	0.103	-0.003
			Max. Compression	18	-8.326	0.000	0.000
			Max. Mx	31	1.055	0.160	-0.011
			Max. My	4	-5.189	0.021	-0.015
			Max. Vy	29	0.069	0.130	-0.011
			Max. Vx	28	-0.003	0.000	0.000
		Secondary Horizontal	Max Tension	8	1.286	0.057	0.003
			Max. Compression	9	-1.063	0.051	0.020
			Max. Mx	36	0.015	0.135	0.027
			Max. My	30	0.255	0.102	0.029
			Max. Vy	36	-0.072	0.135	0.027
			Max. Vx	30	-0.005	0.000	0.000
T10	20 - 0	Leg	Max Tension	7	223.041	-1.739	-0.029
			Max. Compression	18	-267.094	0.000	-0.000
			Max. Mx	35	-106.346	4.100	-0.012
			Max. My	8	-21.630	-0.156	2.485
			Max. Vy	31	-0.729	-3.083	-0.001
			Max. Vx	4	-0.346	-0.156	-2.400
		Diagonal	Max Tension	20	7.910	0.000	0.000
			Max. Compression	18	-8.539	0.000	0.000
			Max. Mx	29	0.010	0.206	-0.021
			Max. My	28	3.675	0.124	-0.025
			Max. Vy	29	0.080	0.206	-0.021

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	28	0.004	0.000	0.000

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	274.132	24.327	-13.357
	Max. H_x	18	274.132	24.327	-13.357
	Max. H_z	7	-228.572	-20.906	11.405
	Min. Vert	7	-228.572	-20.906	11.405
	Min. H_x	7	-228.572	-20.906	11.405
	Min. H_z	18	274.132	24.327	-13.357
Leg B	Max. Vert	10	271.976	-23.167	-13.849
	Max. H_x	23	-220.580	19.685	11.793
	Max. H_z	23	-220.580	19.685	11.793
	Min. Vert	23	-220.580	19.685	11.793
	Min. H_x	10	271.976	-23.167	-13.849
	Min. H_z	10	271.976	-23.167	-13.849
Leg A	Max. Vert	2	257.803	0.650	25.544
	Max. H_x	20	24.347	2.744	1.764
	Max. H_z	2	257.803	0.650	25.544
	Min. Vert	15	-208.387	-0.590	-21.536
	Min. H_x	9	17.360	-2.684	1.246
	Min. H_z	15	-208.387	-0.590	-21.536

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	58.689	0.000	0.000	-5.159	-27.793	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	70.426	-0.070	-39.440	-4058.675	-24.438	21.253
0.9 Dead+1.0 Wind 0 deg - No Ice	52.820	-0.070	-39.440	-4057.127	-16.101	21.253
1.2 Dead+1.0 Wind 30 deg - No Ice	70.426	19.853	-34.661	-3553.362	-2063.313	28.362
0.9 Dead+1.0 Wind 30 deg - No Ice	52.820	19.853	-34.661	-3551.815	-2054.975	28.362
1.2 Dead+1.0 Wind 60 deg - No Ice	70.426	35.954	-20.836	-2131.948	-3701.922	20.401
0.9 Dead+1.0 Wind 60 deg - No Ice	52.820	35.954	-20.836	-2130.400	-3693.584	20.401
1.2 Dead+1.0 Wind 90 deg - No Ice	70.426	42.253	0.070	2.722	-4337.413	-0.792
0.9 Dead+1.0 Wind 90 deg - No Ice	52.820	42.253	0.070	4.270	-4329.075	-0.792
1.2 Dead+1.0 Wind 120 deg - No Ice	70.426	36.160	21.035	2146.494	-3730.737	-13.185
0.9 Dead+1.0 Wind 120 deg - No Ice	52.820	36.160	21.035	2148.042	-3722.400	-13.185
1.2 Dead+1.0 Wind 150 deg -	70.426	18.709	32.539	3399.321	-1991.818	-12.738

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
No Ice						
0.9 Dead+1.0 Wind 150 deg - No Ice	52.820	18.709	32.539	3400.869	-1983.480	-12.738
1.2 Dead+1.0 Wind 180 deg - No Ice	70.426	0.070	37.713	3912.767	-42.264	-21.253
0.9 Dead+1.0 Wind 180 deg - No Ice	52.820	0.070	37.713	3914.315	-33.927	-21.253
1.2 Dead+1.0 Wind 210 deg - No Ice	70.426	-19.853	34.661	3540.980	1996.610	-28.362
0.9 Dead+1.0 Wind 210 deg - No Ice	52.820	-19.853	34.661	3542.528	2004.948	-28.362
1.2 Dead+1.0 Wind 240 deg - No Ice	70.426	-37.449	21.699	2186.328	3750.855	-20.401
0.9 Dead+1.0 Wind 240 deg - No Ice	52.820	-37.449	21.699	2187.876	3759.193	-20.401
1.2 Dead+1.0 Wind 270 deg - No Ice	70.426	-42.253	-0.070	-15.104	4270.710	0.792
0.9 Dead+1.0 Wind 270 deg - No Ice	52.820	-42.253	-0.070	-13.557	4279.048	0.792
1.2 Dead+1.0 Wind 300 deg - No Ice	70.426	-34.664	-20.171	-2092.114	3548.399	13.185
0.9 Dead+1.0 Wind 300 deg - No Ice	52.820	-34.664	-20.171	-2090.566	3556.736	13.185
1.2 Dead+1.0 Wind 330 deg - No Ice	70.426	-18.709	-32.539	-3411.703	1925.115	12.738
0.9 Dead+1.0 Wind 330 deg - No Ice	52.820	-18.709	-32.539	-3410.156	1933.453	12.738
1.2 Dead+1.0 Ice+1.0 Temp	126.361	0.000	0.000	-10.784	-78.936	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	126.361	-0.016	-10.721	-1119.307	-77.062	5.509
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	126.361	5.541	-9.680	-1000.954	-645.350	7.818
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	126.361	10.095	-5.857	-605.297	-1103.295	5.472
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	126.361	11.682	0.016	-8.911	-1269.284	-0.111
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	126.361	9.722	5.661	572.239	-1079.650	-3.100
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	126.361	5.199	9.055	936.731	-622.886	-3.491
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	126.361	0.016	10.429	1075.789	-80.809	-5.509
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	126.361	-5.541	9.680	979.386	487.479	-7.818
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	126.361	-10.347	6.003	594.703	964.434	-5.472
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	126.361	-11.682	-0.016	-12.657	1111.413	0.111
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	126.361	-9.470	-5.515	-582.833	902.770	3.100
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	126.361	-5.199	-9.055	-958.300	465.015	3.491
Dead+Wind 0 deg - Service	58.689	-0.020	-11.244	-1152.993	-25.283	5.985
Dead+Wind 30 deg - Service	58.689	5.659	-9.879	-1009.807	-602.757	7.979
Dead+Wind 60 deg - Service	58.689	10.243	-5.936	-607.102	-1066.628	5.732
Dead+Wind 90 deg - Service	58.689	12.036	0.020	-2.649	-1246.476	-0.239
Dead+Wind 120 deg - Service	58.689	10.301	5.992	604.366	-1074.743	-3.727
Dead+Wind 150 deg - Service	58.689	5.337	9.282	959.594	-582.623	-3.595
Dead+Wind 180 deg - Service	58.689	0.020	10.757	1105.071	-30.303	-5.985
Dead+Wind 210 deg - Service	58.689	-5.659	9.879	999.488	547.172	-7.979
Dead+Wind 240 deg - Service	58.689	-10.665	6.179	615.584	1043.608	-5.732

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 270 deg - Service	58.689	-12.036	-0.020	-7.670	1190.890	0.239
Dead+Wind 300 deg - Service	58.689	-9.880	-5.749	-595.884	986.592	3.727
Dead+Wind 330 deg - Service	58.689	-5.337	-9.282	-969.913	527.037	3.595

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.000	-58.689	0.000	-0.000	58.689	0.000	0.000%
2	-0.070	-70.426	-39.440	0.070	70.426	39.440	0.000%
3	-0.070	-52.820	-39.440	0.070	52.820	39.440	0.000%
4	19.853	-70.426	-34.661	-19.853	70.426	34.661	0.000%
5	19.853	-52.820	-34.661	-19.853	52.820	34.661	0.000%
6	35.954	-70.426	-20.836	-35.954	70.426	20.836	0.000%
7	35.954	-52.820	-20.836	-35.954	52.820	20.836	0.000%
8	42.253	-70.426	0.070	-42.253	70.426	-0.070	0.000%
9	42.253	-52.820	0.070	-42.253	52.820	-0.070	0.000%
10	36.160	-70.426	21.035	-36.160	70.426	-21.035	0.000%
11	36.160	-52.820	21.035	-36.160	52.820	-21.035	0.000%
12	18.709	-70.426	32.539	-18.709	70.426	-32.539	0.000%
13	18.709	-52.820	32.539	-18.709	52.820	-32.539	0.000%
14	0.070	-70.426	37.713	-0.070	70.426	-37.713	0.000%
15	0.070	-52.820	37.713	-0.070	52.820	-37.713	0.000%
16	-19.853	-70.426	34.661	19.853	70.426	-34.661	0.000%
17	-19.853	-52.820	34.661	19.853	52.820	-34.661	0.000%
18	-37.449	-70.426	21.699	37.449	70.426	-21.699	0.000%
19	-37.449	-52.820	21.699	37.449	52.820	-21.699	0.000%
20	-42.253	-70.426	-0.070	42.253	70.426	0.070	0.000%
21	-42.253	-52.820	-0.070	42.253	52.820	0.070	0.000%
22	-34.664	-70.426	-20.171	34.664	70.426	20.171	0.000%
23	-34.664	-52.820	-20.171	34.664	52.820	20.171	0.000%
24	-18.709	-70.426	-32.539	18.709	70.426	32.539	0.000%
25	-18.709	-52.820	-32.539	18.709	52.820	32.539	0.000%
26	0.000	-126.361	0.000	-0.000	126.361	0.000	0.000%
27	-0.016	-126.361	-10.721	0.016	126.361	10.721	0.000%
28	5.541	-126.361	-9.680	-5.541	126.361	9.680	0.000%
29	10.095	-126.361	-5.857	-10.095	126.361	5.857	0.000%
30	11.682	-126.361	0.016	-11.682	126.361	-0.016	0.000%
31	9.722	-126.361	5.661	-9.722	126.361	-5.661	0.000%
32	5.199	-126.361	9.055	-5.199	126.361	-9.055	0.000%
33	0.016	-126.361	10.429	-0.016	126.361	-10.429	0.000%
34	-5.541	-126.361	9.680	5.541	126.361	-9.680	0.000%
35	-10.347	-126.361	6.003	10.347	126.361	-6.003	0.000%
36	-11.682	-126.361	-0.016	11.682	126.361	0.016	0.000%
37	-9.470	-126.361	-5.515	9.470	126.361	5.515	0.000%
38	-5.199	-126.361	-9.055	5.199	126.361	9.055	0.000%
39	-0.020	-58.689	-11.244	0.020	58.689	11.244	0.000%
40	5.659	-58.689	-9.879	-5.659	58.689	9.879	0.000%
41	10.243	-58.689	-5.936	-10.243	58.689	5.936	0.000%
42	12.036	-58.689	0.020	-12.036	58.689	-0.020	0.000%
43	10.301	-58.689	5.992	-10.301	58.689	-5.992	0.000%
44	5.337	-58.689	9.282	-5.337	58.689	-9.282	0.000%
45	0.020	-58.689	10.757	-0.020	58.689	-10.757	0.000%
46	-5.659	-58.689	9.879	5.659	58.689	-9.879	0.000%
47	-10.665	-58.689	6.179	10.665	58.689	-6.179	0.000%
48	-12.036	-58.689	-0.020	12.036	58.689	0.020	0.000%
49	-9.880	-58.689	-5.749	9.880	58.689	5.749	0.000%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
50	-5.337	-58.689	-9.282	5.337	58.689	9.282	0.000%

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	180 - 168	5.174	42	0.275	0.031
T2	168 - 160	4.482	42	0.273	0.031
T3	160 - 140	4.026	42	0.262	0.031
T4	140 - 120	2.978	42	0.220	0.027
T5	120 - 100	2.115	42	0.176	0.023
T6	100 - 80	1.437	42	0.134	0.018
T7	80 - 60	0.908	42	0.104	0.013
T8	60 - 40	0.503	42	0.076	0.008
T9	40 - 20	0.224	42	0.047	0.005
T10	20 - 0	0.063	47	0.019	0.003

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
178.000	PD10017	42	5.059	0.276	0.031	895206
170.000	MX08FRO665-21 w/ Mount Pipe	42	4.597	0.274	0.031	365622
164.000	(2) RFV01U-D1A	42	4.253	0.268	0.031	67981
154.000	7770.00 w/ Mount Pipe	42	3.695	0.250	0.030	32124
145.000	800 EXTERNAL NOTCH FILTER	42	3.224	0.231	0.028	26648
143.000	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	42	3.125	0.226	0.028	25690
124.000	1142-2C	42	2.272	0.185	0.024	24652
104.000	220-3BN	42	1.559	0.142	0.019	30921
93.000	APXVAARR24_43-U-NA20	42	1.237	0.122	0.016	35235
62.000	GPS_A	42	0.538	0.079	0.009	37642
60.000	(2) 3'x8" Knife Plate	42	0.503	0.076	0.008	37583
42.000	GPS_A	42	0.246	0.050	0.006	41251
31.000	GPS_A	42	0.137	0.034	0.004	40967
20.000	(2) 3'x8" Knife Plate	47	0.063	0.019	0.003	41797

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	180 - 168	18.036	8	0.957	0.111
T2	168 - 160	15.639	8	0.948	0.111
T3	160 - 140	14.056	8	0.912	0.110
T4	140 - 120	10.405	8	0.767	0.097

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T5	120 - 100	7.398	19	0.614	0.081
T6	100 - 80	5.033	19	0.469	0.063
T7	80 - 60	3.184	19	0.361	0.045
T8	60 - 40	1.769	19	0.264	0.030
T9	40 - 20	0.791	19	0.165	0.019
T10	20 - 0	0.223	19	0.065	0.009

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
178.000	PD10017	8	17.636	0.958	0.111	343802
170.000	MX08FRO665-21 w/ Mount Pipe	8	16.038	0.952	0.111	133124
164.000	(2) RFV01U-D1A	8	14.843	0.933	0.111	21286
154.000	7770.00 w/ Mount Pipe	8	12.905	0.873	0.107	9613
145.000	800 EXTERNAL NOTCH FILTER	8	11.264	0.806	0.101	7713
143.000	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	8	10.916	0.790	0.099	7397
124.000	1142-2C	19	7.946	0.644	0.084	7052
104.000	220-3BN	19	5.460	0.495	0.067	8836
93.000	APXVAARR24_43-U-NA20	19	4.333	0.427	0.057	10060
62.000	GPS_A	19	1.891	0.274	0.031	10757
60.000	(2) 3'x8" Knife Plate	19	1.769	0.264	0.030	10742
42.000	GPS_A	19	0.870	0.175	0.020	11839
31.000	GPS_A	19	0.485	0.118	0.015	11760
20.000	(2) 3'x8" Knife Plate	19	0.223	0.065	0.009	11994

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	180	Diagonal	A325N	0.625	1	0.695	7.875	0.088 ✔	1.05	Member Block Shear
		Top Girt	A325N	0.625	1	0.185	7.875	0.023 ✔	1.05	Member Block Shear
T2	168	Leg	A325N	0.625	4	1.697	20.340	0.083 ✔	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	2.870	7.875	0.365 ✔	1.05	Member Block Shear
T3	160	Leg	A325N	0.625	4	10.171	20.340	0.500 ✔	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	4.317	7.875	0.548 ✔	1.05	Member Block Shear
T4	140	Leg	A325N	0.750	4	18.430	30.101	0.612 ✔	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	5.269	7.875	0.669 ✔	1.05	Member Block Shear
T5	120	Leg	A325N	0.750	4	25.620	30.101	0.851 ✔	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	4.963	9.914	0.501 ✔	1.05	Member Block Shear

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T6	100	Leg	A490N	0.875	4	32.203	51.945	0.620 ✔	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	5.797	9.914	0.585 ✔	1.05	Member Block Shear
T7	80	Leg	A325N	0.875	4	38.203	41.556	0.919 ✔	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	6.755	10.934	0.618 ✔	1.05	Member Block Shear
T8	60	Leg	A325N	1.000	4	44.403	54.517	0.814 ✔	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	7.188	13.806	0.521 ✔	1.05	Bolt Shear
T9	40	Leg	A325N	1.000	4	50.087	54.517	0.919 ✔	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	8.326	13.806	0.603 ✔	1.05	Bolt Shear
		Secondary Horizontal	A325N	0.500	1	4.141	8.836	0.469 ✔	1.05	Bolt Shear
T10	20	Diagonal	A325N	0.625	1	8.539	13.806	0.619 ✔	1.05	Bolt Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $P_u / \phi P_n$
T1	180 - 168	P2x0.154	12.000	4.000	61.0 K=1.00	1.075	-3.050	27.981	0.109 [1] ✔
T2	168 - 160	P2x0.154 (GR)	8.000	4.000	61.0 K=1.00	1.075	-12.062	38.430	0.314 [1] ✔
T3	160 - 140	P3x0.216 (GR)	20.033	5.008	51.7 K=1.00	2.228	-53.248	87.013	0.612 [1] ✔
T4	140 - 120	P3.5x.318 (GR)	20.033	6.678	61.3 K=1.00	3.678	-90.676	122.133	0.742 [1] ✔
T5	120 - 100	P4x.337 (GR)	20.033	6.678	54.3 K=1.00	4.407	-122.864	157.190	0.782 [1] ✔
T6	100 - 80	P5x0.375 (GR)	20.033	6.678	43.6 K=1.00	6.112	-154.896	242.300	0.639 [1] ✔
T7	80 - 60	P6x0.432	20.033	10.017	54.8 K=1.00	8.405	-182.112	227.081	0.802 [1] ✔
T8	60 - 40	P6x0.432	20.033	10.017	54.8 K=1.00	8.405	-211.110	227.081	0.930 [1] ✔
T9	40 - 20	P6x0.432	20.033	5.151	28.2 K=1.00	8.405	-238.772	254.222	0.939 [1] ✔
T10	20 - 0	P8x.5	20.033	10.017	41.8 K=1.00	12.763	-267.094	367.690	0.726 [1] ✔

[1] P_u / ϕP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 168	L2x1 1/2x3/16	5.657	2.543	101.1 K=1.07	0.621	-0.803	15.177	0.053 [1] ✔
T2	168 - 160	L2x1 1/2x3/16	5.657	2.543	101.1 K=1.07	0.621	-3.027	15.177	0.199 [1] ✔
T3	160 - 140	L2x1 1/2x3/16	7.621	3.637	135.6 K=1.00	0.621	-4.416	9.673	0.457 [1] ✔
T4	140 - 120	L2x2x3/16	10.162	4.935	150.3 K=1.00	0.715	-4.917	9.058	0.543 [1] ✔
T5	120 - 100	L2 1/2x2x3/16	11.744	5.701	160.2 K=1.00	0.809	-5.020	9.021	0.556 [1] ✔
T6	100 - 80	L2 1/2x2 1/2x3/16	13.438	6.498	157.5 K=1.00	0.902	-5.761	10.403	0.554 [1] ✔
T7	80 - 60	L3x3x3/16	16.803	8.223	165.6 K=1.00	1.090	-6.800	11.381	0.597 [1] ✔
T8	60 - 40	L3 1/2x3x1/4	18.448	9.047	172.1 K=1.00	1.560	-7.188	15.083	0.477 [1] ✔
T9	40 - 20	L3 1/2x3x1/4	20.158	10.049	191.1 K=1.00	1.560	-8.326	12.226	0.681 [1] ✔
T10	20 - 0	L3 1/2x3 1/2x1/4	21.916	10.690	184.8 K=1.00	1.690	-8.539	14.159	0.603 [1] ✔

[1] P_u / ϕP_n controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T9	40 - 20	L3 1/2x3 1/2x1/4	17.486	8.467	146.4 K=1.00	1.690	-4.141	22.568	0.183 [1] ✔

[1] P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 168	L2x1 1/2x3/16	4.000	3.510	130.8 K=1.00	0.621	-0.143	10.385	0.014 [1] ✔

[1] P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 168	P2x0.154	12.000	4.000	61.0	1.075	1.670	33.848	0.049 [1] ✔
T2	168 - 160	P2x0.154 (GR)	8.000	4.000	61.0	1.075	6.787	33.848	0.201 [1] ✔
T3	160 - 140	P3x0.216 (GR)	20.033	5.008	51.7	2.228	40.682	70.197	0.580 [1] ✔
T4	140 - 120	P3.5x.318 (GR)	20.033	6.678	61.3	3.678	73.720	115.870	0.636 [1] ✔
T5	120 - 100	P4x.337 (GR)	20.033	6.678	54.3	4.407	102.479	138.834	0.738 [1] ✔
T6	100 - 80	P5x0.375 (GR)	20.033	6.678	43.6	6.112	128.813	192.527	0.669 [1] ✔
T7	80 - 60	P6x0.432	20.033	10.017	54.8	8.405	152.811	264.756	0.577 [1] ✔
T8	60 - 40	P6x0.432	20.033	10.017	54.8	8.405	177.613	264.756	0.671 [1] ✔
T9	40 - 20	P6x0.432	20.033	4.865	26.6	8.405	200.524	264.756	0.757 [1] ✔
T10	20 - 0	P8x.5	20.033	10.017	41.8	12.763	223.041	402.026	0.555 [1] ✔

[1] P_u / ϕP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 168	L2x1 1/2x3/16	5.657	2.543	73.4	0.360	0.695	15.675	0.044 [1] ✔
T2	168 - 160	L2x1 1/2x3/16	5.657	2.543	73.4	0.360	2.870	15.675	0.183 [1] ✔
T3	160 - 140	L2x1 1/2x3/16	7.621	3.637	103.3	0.360	4.317	15.675	0.275 [1] ✔
T4	140 - 120	L2x2x3/16	9.197	4.474	89.9	0.431	5.269	18.739	0.281 [1] ✔
T5	120 - 100	L2 1/2x2x3/16	11.744	5.701	117.0	0.501	4.963	21.806	0.228 [1] ✔
T6	100 - 80	L2 1/2x2 1/2x3/16	13.438	6.498	102.5	0.571	5.797	24.840	0.233 [1] ✔

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T7	80 - 60	L3x3x3/16	16.803	8.223	107.0	0.712	6.755	30.973	0.218 [1] ✔
T8	60 - 40	L3 1/2x3x1/4	18.448	9.047	120.8	1.029	7.123	44.778	0.159 [1] ✔
T9	40 - 20	L3 1/2x3x1/4	20.158	10.049	132.1	1.029	7.427	44.778	0.166 [1] ✔
T10	20 - 0	L3 1/2x3 1/2x1/4	21.916	10.690	119.3	1.127	7.910	49.019	0.161 [1] ✔

[1] P_u / ϕP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T9	40 - 20	L3 1/2x3 1/2x1/4	16.485	7.966	175.4	1.150	4.141	50.039	0.083 [1] ✔

[1] P_u / ϕP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	180 - 168	L2x1 1/2x3/16	4.000	3.510	103.8	0.360	0.185	15.675	0.012 [1] ✔

[1] P_u / ϕP_n controls

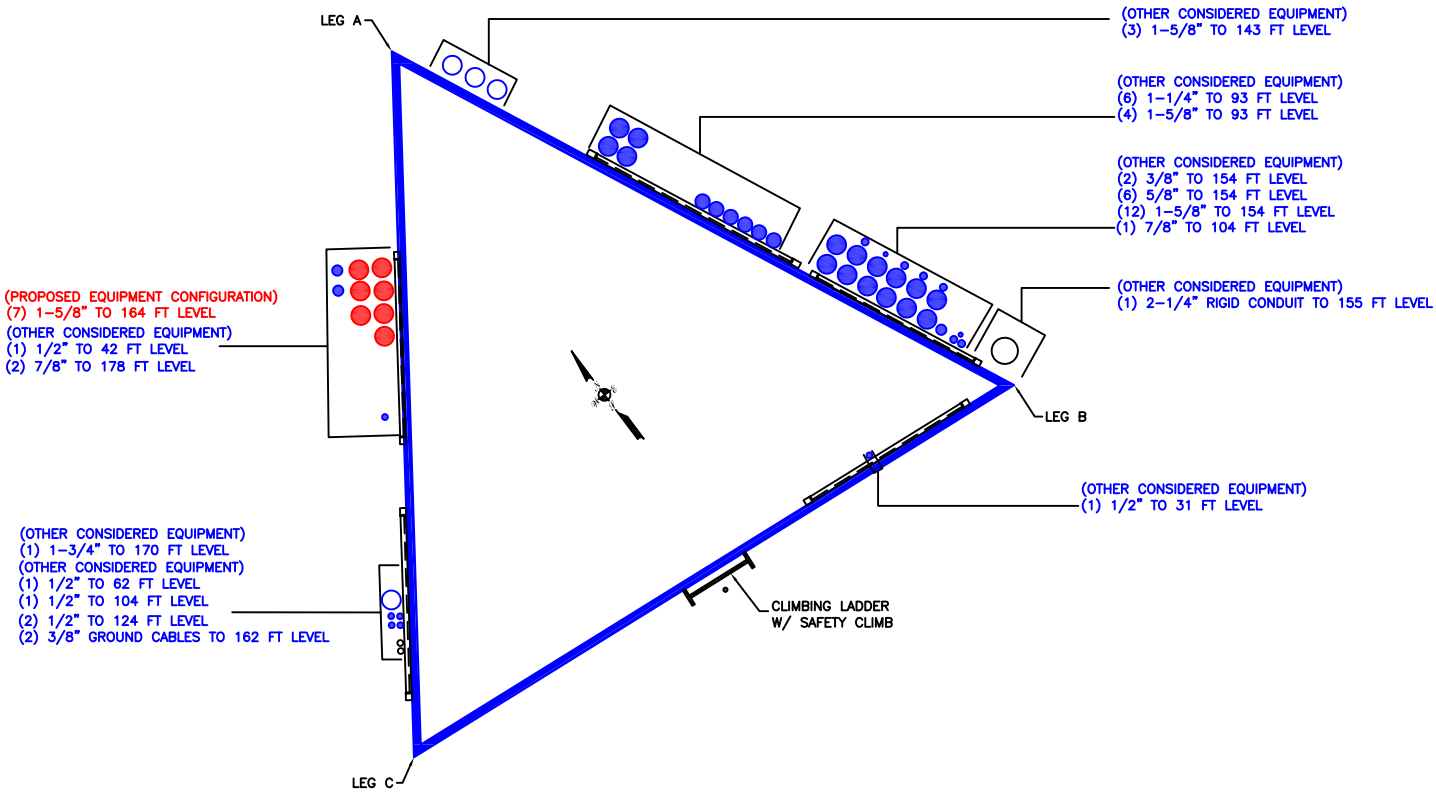
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	180 - 168	Leg	P2x0.154	2	-3.050	29.380	10.4	Pass
T2	168 - 160	Leg	P2x0.154 (GR)	26	-12.062	40.351	29.9	Pass
T3	160 - 140	Leg	P3x0.216 (GR)	41	-53.248	91.364	58.3	Pass
T4	140 - 120	Leg	P3.5x.318 (GR)	68	-90.676	128.240	70.7	Pass
T5	120 - 100	Leg	P4x.337 (GR)	89	-122.864	165.049	74.4	Pass
T6	100 - 80	Leg	P5x0.375 (GR)	109	128.813	202.153	63.7	Pass
T7	80 - 60	Leg	P6x0.432	131	-182.112	238.435	76.4	Pass
T8	60 - 40	Leg	P6x0.432	145	-211.110	238.435	88.5	Pass
T9	40 - 20	Leg	P6x0.432	160	-238.772	266.933	89.5	Pass
T10	20 - 0	Leg	P8x.5	181	-267.094	386.074	69.2	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	180 - 168	Diagonal	L2x1 1/2x3/16	10	-0.803	15.935	5.0	Pass
T2	168 - 160	Diagonal	L2x1 1/2x3/16	30	-3.027	15.935	19.0	Pass
T3	160 - 140	Diagonal	L2x1 1/2x3/16	46	-4.416	10.157	43.5	Pass
T4	140 - 120	Diagonal	L2x2x3/16	70	-4.917	9.511	51.7	Pass
T5	120 - 100	Diagonal	L2 1/2x2x3/16	91	-5.020	9.472	53.0	Pass
T6	100 - 80	Diagonal	L2 1/2x2 1/2x3/16	112	-5.761	10.923	52.7	Pass
T7	80 - 60	Diagonal	L3x3x3/16	133	-6.800	11.950	56.9	Pass
T8	60 - 40	Diagonal	L3 1/2x3x1/4	148	-7.188	15.837	45.4	Pass
T9	40 - 20	Diagonal	L3 1/2x3x1/4	163	-8.326	12.837	64.9	Pass
T10	20 - 0	Diagonal	L3 1/2x3 1/2x1/4	184	-8.539	14.867	57.4	Pass
T9	40 - 20	Secondary Horizontal	L3 1/2x3 1/2x1/4	171	-4.141	23.697	17.5	Pass
T1	180 - 168	Top Girt	L2x1 1/2x3/16	6	-0.143	10.904	1.3	Pass
							Summary	
						Leg (T9)	89.5	Pass
						Diagonal (T9)	64.9	Pass
						Secondary Horizontal (T9)	17.5	Pass
						Top Girt (T1)	1.3	Pass
						Bolt Checks	87.6	Pass
						RATING =	**89.5**	**Pass**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 806353

APPENDIX C

ADDITIONAL CALCULATIONS

Self Support Anchor Rod Capacity

Site Info	
BU #	806353
Site Name	BRG 124 943066, CT
Order #	606853 Rev# 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	0

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	258.00	229.00
Shear Force (kips)	26.00	24.00

**TIA-222-H Section 15.5 Applied*

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

**Anchor Rod Eccentricity Applied*

Connection Properties

Anchor Rod Data

(6) 1-1/2" ø bolts (A36 N; Fy=36 ksi, Fu=58 ksi)

l_{ar} (in): 0

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

Pu_t = 38.17	ϕPn_t = 61.34	**Stress Rating**
Vu = 4	ϕVn = 38.44	**59.3%**
Mu = n/a	ϕMn = n/a	**Pass**

Drilled Pier Foundation

BU # :	806353
Site Name:	BRG 124 943066, CT
Order Number:	606853,Rev# 0
TIA-222 Revison:	H
Tower Type:	Self Support

Check Limitation	
Apply TIA-222-H Section 15.5:	☑
N/A	☐
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	☐
Shear Design Options	
Check Shear along Depth of Pier:	☑
Utilize Shear-Friction Methodology:	☐
Override Critical Depth:	☐

Go to Soil Calculations

Applied Loads	Comp.	Uplift
Moment (kip-ft)		
Axial Force (kips)	274	229
Shear Force (kips)	28	24

Material Properties			Rebar 2, Fy Override (ksi)	Rebar 3, Fy Override (ksi)
Concrete Strength, f'c:	3	ksi		
Rebar Strength, Fy:	60	ksi		
Tie Yield Strength, Fyt:	40	ksi		

Pier Design Data		
Depth	13.2	ft
Ext. Above Grade	0.3	ft
Pier Section 1		
From 0.3' above grade to 13.2' below grade		
Pier Diameter	2.5	ft
Rebar Quantity	14	
Rebar Size	8	
Clear Cover to Ties	4	in
Tie Size	4	
Tie Spacing	16	in

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	7.52	7.52
Soil Safety Factor	7.47	8.71
Max Moment (kip-ft)	191.60	164.23
Rating*	*17.0%*	*14.5%*
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	191.24	191.24
End Bearing (kips)	206.28	-
Weight of Concrete (kips)	11.93	8.95
Total Capacity (kips)	397.52	267.34
Axial (kips)	375.46	229.00
Rating*	*90.0%*	*81.6%*
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	7.53	7.14
Critical Moment (kip-ft)	191.60	162.92
Critical Moment Capacity	505.91	353.37
Rating*	*36.1%*	*43.9%*
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	10.51	10.51
Critical Shear (kip)	64.07	54.92
Critical Shear Capacity	127.00	52.52
Rating*	*48.1%*	*99.6%*

Tie Spacing Requirements Not Met

Structural Foundation Rating*	**99.6%**
Soil Interaction Rating*	**90.0%**

*Rating per TIA-222-H Section 15.5

Soil Profile

Groundwater Depth	N/A	# of Layers	3

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	5	5	110	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	5	6	1	110	150	0	30	0.000	0.000	0.77	0.77			Cohesionless
3	6	13.2	7.2	140	150	8	0	3.600	3.600	4.40	4.40	56.03		Cohesive

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 427.44 ft (NAVD 88)
Latitude: 41.238528
Longitude: -73.424139

Wind

Results:

Wind Speed	116 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 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: Fri Feb 25 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.

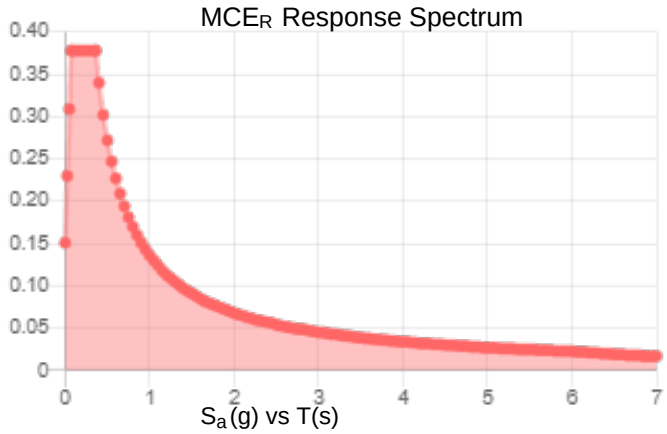
Seismic

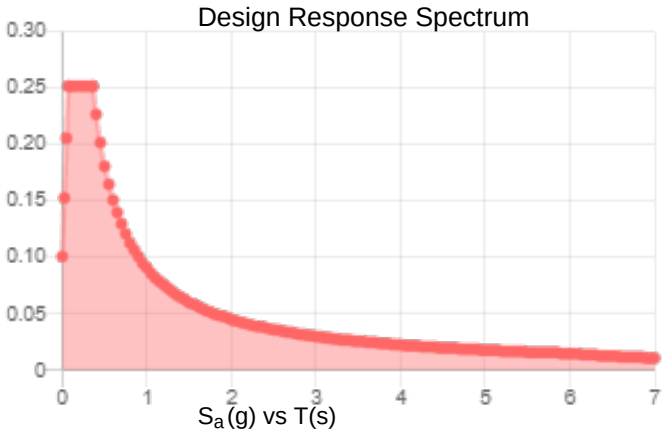
Site Soil Class: D - Stiff Soil

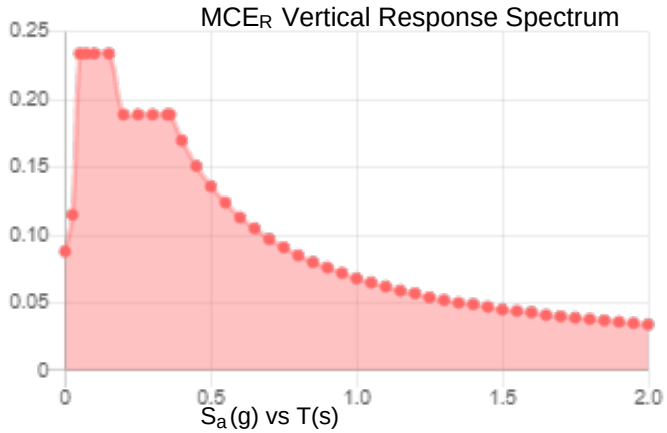
Results:

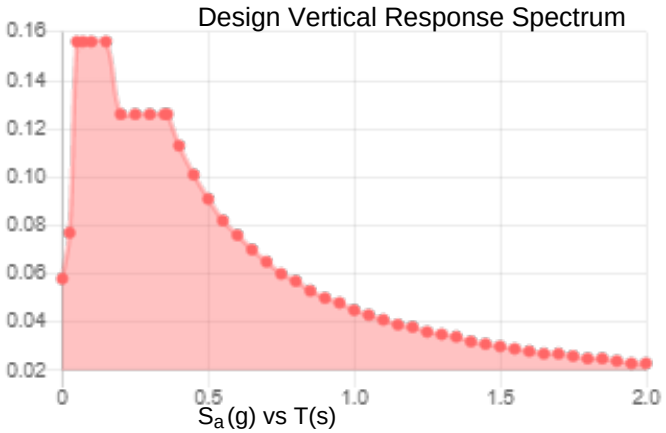
S_S :	0.236	S_{D1} :	0.091
S_1 :	0.057	T_L :	6
F_a :	1.6	PGA :	0.139
F_v :	2.4	PGA_M :	0.211
S_{MS} :	0.378	F_{PGA} :	1.523
S_{M1} :	0.136	I_e :	1
S_{DS} :	0.252	C_v :	0.773

Seismic Design Category B









Data Accessed: **Fri Feb 25 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:	Fri Feb 25 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.

Exhibit E

Mount Analysis

Maser Consulting
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@colliersengineering.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10039584
Maser Consulting Connecticut Project #: 21777141A (Rev 1)

April 13, 2022

Site Information	*Site ID:*	*467241-VZW / WILTON CT*
	Site Name:	*WILTON CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*128 Mather Rd* *Wilton, Connecticut 06897* *Fairfield County*
	Latitude:	*41.238426°*
	Longitude:	*-73.424011°*
Structure Information	*Tower Type:*	*180-Ft Self Support*
	Mount Type:	*17.42-Ft Sector Frame*

FUZE ID # 16272216

Analysis Results

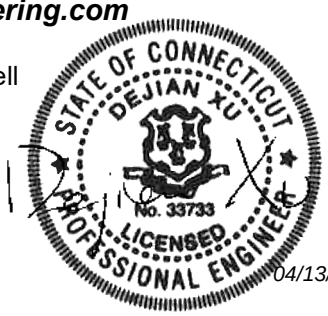
Sector Frame: **62.5% Pass***

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com

For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Madison Shell



04/13/2022

Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 325157, dated February 10, 2021*
Mount Mapping Report	*Hudson Design Group LLC, Site ID: 467241, dated March 23, 2021*
Previous Mount Analysis	*Maser Consulting, Project #21777141A, dated May 12, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	116 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.985
Seismic Parameters:	S_S:	0.236 g
	S_1:	0.057 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
160.00	162.00	3	Samsung	MT6407-77A	Added
		6	Commscope	JAHH-65B-R3B	Retained
		6	RFS	APL868013	
		3	Samsung	XXDWMM-12.5-65-8T-CBRS	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Commscope	CBC78T-DS-43	
		2	Raycap	RRFDC-3315-PF-48	

It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

   Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

   The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	62.5 %	Pass
Antenna Pipe	62.5 %	Pass
Connection Beam	20.2 %	Pass
Connection Pipe	16.1 %	Pass
Standoff Diagonal	6.8 %	Pass
Standoff Connection	28.9 %	Pass
Standoff Horizontal	27.0 %	Pass
Tie Back	24.8 %	Pass
Mount Connection	48.2 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**62.5%**

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	30.6	21.8	38.0	29.3
0.5	41.7	28.7	52.2	39.2
1	52.6	35.1	66.2	48.8

Notes:
- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector.
- Ka factors included in (EPA)a calculations

Requirements:

The existing mounts are **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

If required, ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other. Separate review fees will apply.

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

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PSLC #: 467241 SMART Project #: 10039584 Fuze Project ID: 16272216

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built mount drawings" showing contractor's name, contact information, preparer's signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: ***https://pmi.vzwsmart.com***

Photo Requirements:

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation.
  - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to installation.
  - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.
    - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Response:

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.

☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

☐ The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Structure: 467241-VZW - WILTON CT

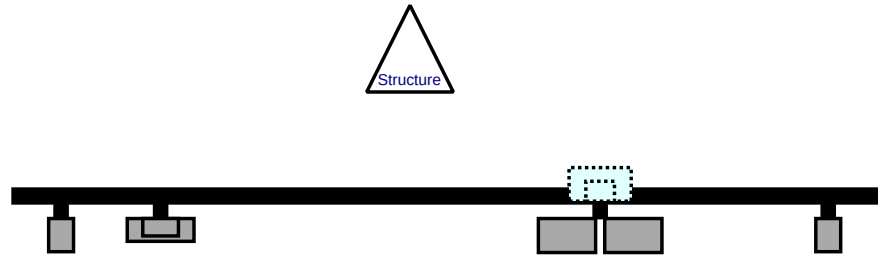
Sector: **A**

Structure Type: Self Support 10039584

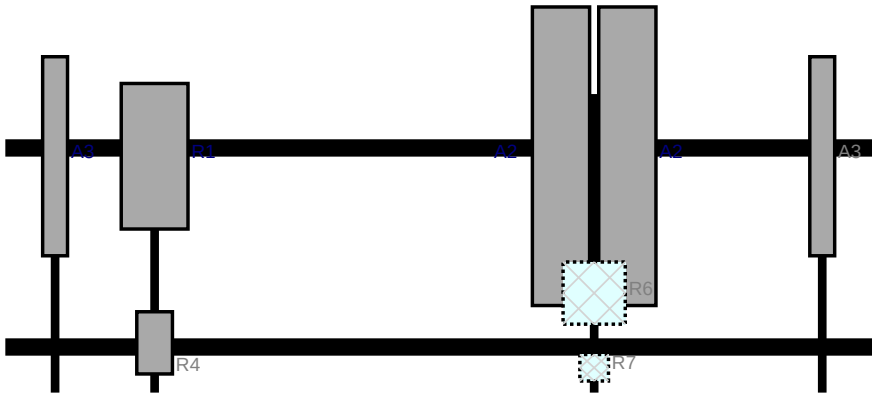
Mount Elev: 160.00

MASER CONSULTING — CONNECTICUT —

Plan View



Front View - Looking at Structure



4 3 2 1

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	APL868013	48	6	197	1	a	Front	15	0	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	142	2	a	Front	15	-8	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	142	2	b	Front	15	8	Retained	03/23/2021
R6	B5/B13 RRH-BR04C	15	15	142	2	a	Behind	48	0	Retained	03/23/2021
R7	CBC78T-DS-43	6.4	6.9	142	2	a	Behind	66	0	Retained	03/23/2021
R1	MT6407-77A	35.1	16.1	36	3	a	Front	15	0	Added	
R4	XXDWMM-12.5-65-8-T-CBRS	15	8.6	36	3	a	Front	60	0	Retained	03/23/2021
A3	APL868013	48	6	12	4	a	Front	15	0	Retained	03/23/2021
M32	B2/B66A RRH-BR049	15	15		Member					Retained	03/23/2021
OVP	RRFDC-3315-PF-48	19.1	15.7		Member					Retained	03/23/2021

Structure: 467241-VZW - WILTON CT

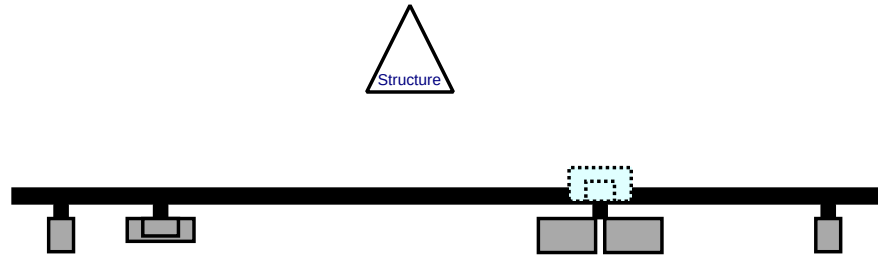
Sector: **B**

Structure Type: Self Support 10039584

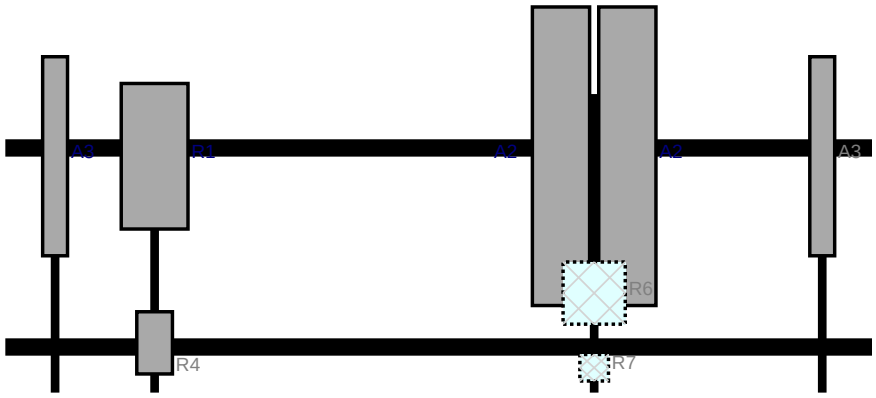
Mount Elev: 160.00

MASER CONSULTING — CONNECTICUT —

Plan View



Front View - Looking at Structure



4 3 2 1

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	APL868013	48	6	197	1	a	Front	15	0	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	142	2	a	Front	15	-8	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	142	2	b	Front	15	8	Retained	03/23/2021
R6	B5/B13 RRH-BR04C	15	15	142	2	a	Behind	48	0	Retained	03/23/2021
R7	CBC78T-DS-43	6.4	6.9	142	2	a	Behind	66	0	Retained	03/23/2021
R1	MT6407-77A	35.1	16.1	36	3	a	Front	15	0	Added	
R4	XXDWMM-12.5-65-8-T-CBRS	15	8.6	36	3	a	Front	60	0	Retained	03/23/2021
A3	APL868013	48	6	12	4	a	Front	15	0	Retained	03/23/2021

Structure: 467241-VZW - WILTON CT

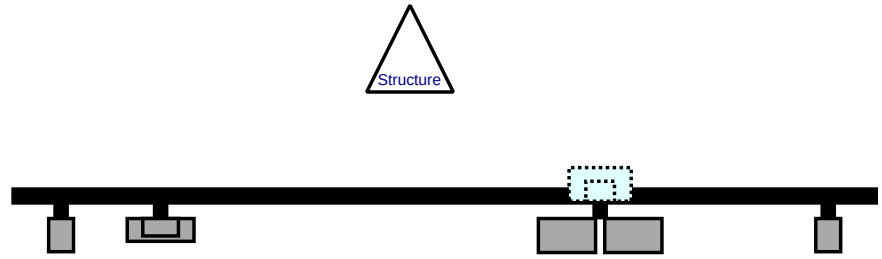
Sector: **C**

Structure Type: Self Support 10039584

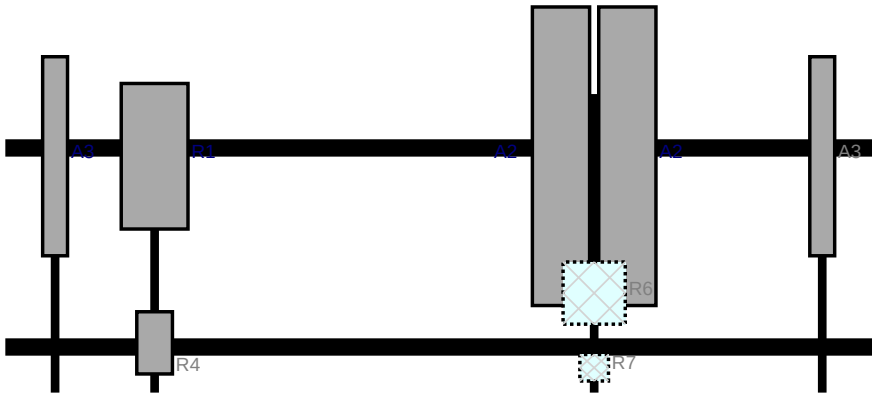
Mount Elev: 160.00

MASER CONSULTING — CONNECTICUT —

Plan View

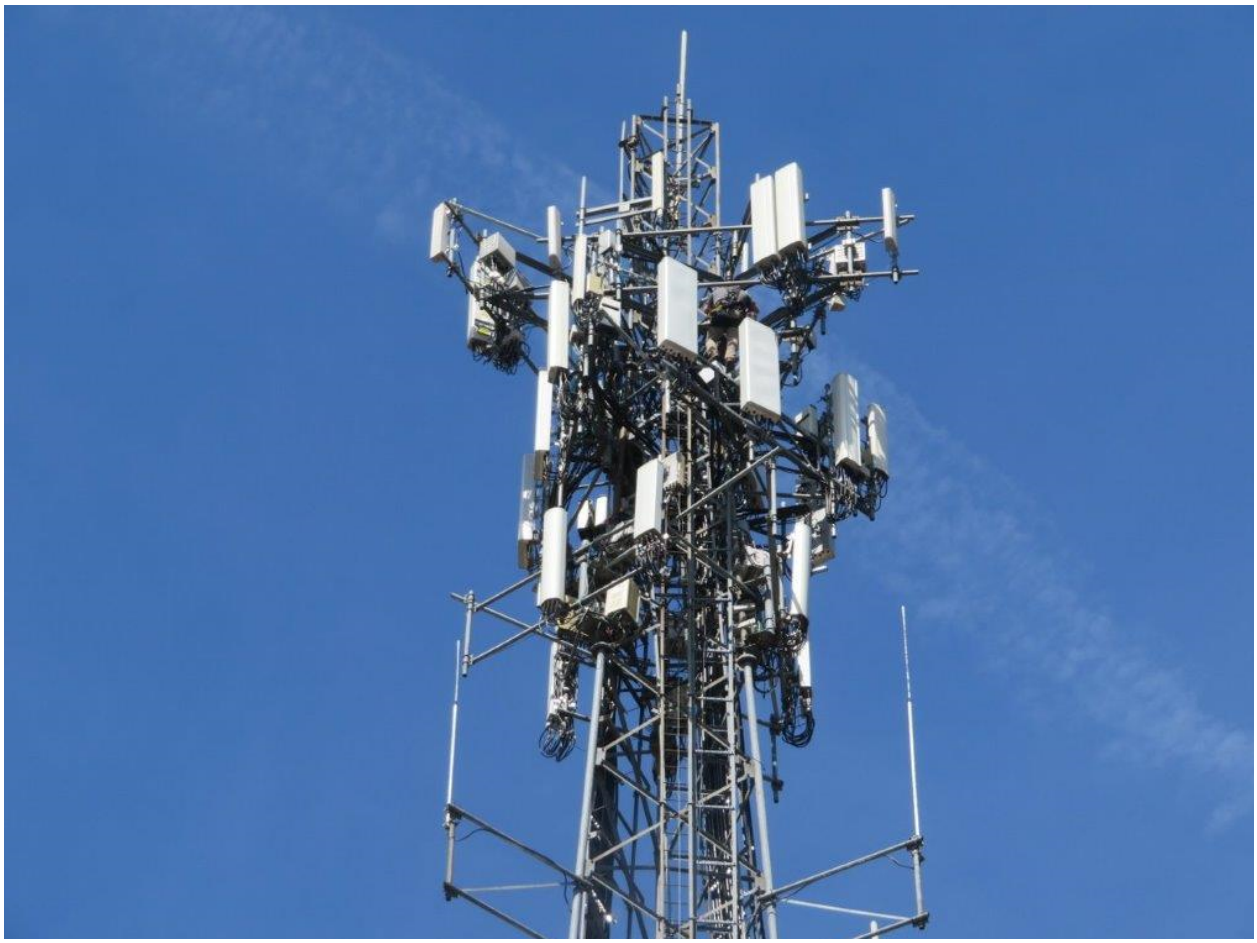


Front View - Looking at Structure



4 3 2 1

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	APL868013	48	6	197	1	a	Front	15	0	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	142	2	a	Front	15	-8	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	142	2	b	Front	15	8	Retained	03/23/2021
R6	B5/B13 RRH-BR04C	15	15	142	2	a	Behind	48	0	Retained	03/23/2021
R7	CBC78T-DS-43	6.4	6.9	142	2	a	Behind	66	0	Retained	03/23/2021
R1	MT6407-77A	35.1	16.1	36	3	a	Front	15	0	Added	
R4	XXDWMM-12.5-65-8-T-CBRS	15	8.6	36	3	a	Front	60	0	Retained	03/23/2021
A3	APL868013	48	6	12	4	a	Front	15	0	Retained	03/23/2021

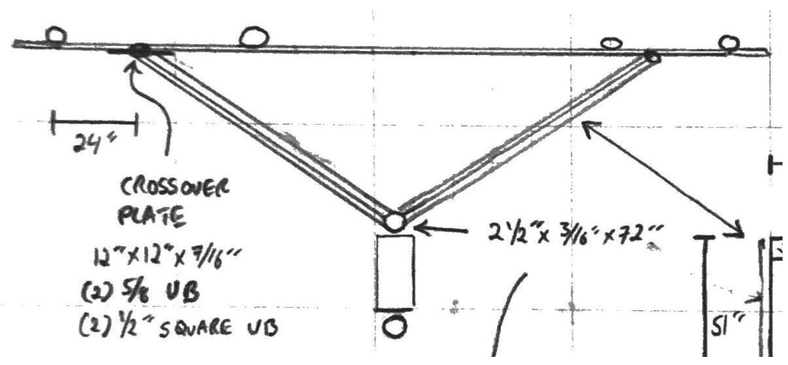


V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	CROWN CASTLE	**Mapping Date:**	3/23/2021
Site Name:	WILTON CT	**Tower Type:**	Self Support
Site Number or ID:	467241	**Tower Height (Ft.):**	180
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	162



Mount Pipe Configuration and Geometries [Unit = Inches]

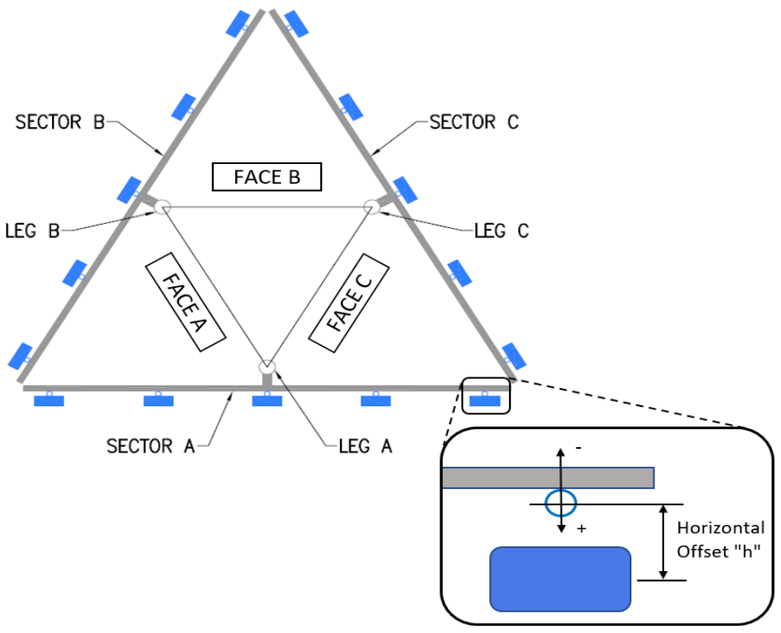
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2" STD. PIPE X 72" LONG	61.00	12.00	C1	2" STD. PIPE X 72" LONG	61.00	12.00
A2	3-1/2"Ø X 3/8" THK. X 96" LONG	73.00	67.00	C2	3-1/2"Ø X 3/8" THK. X 96" LONG	73.00	67.00
A3	2" STD. PIPE X 72" LONG	60.00	173.00	C3	2" STD. PIPE X 72" LONG	60.00	173.00
A4	2" STD. PIPE X 72" LONG	61.00	197.00	C4	2" STD. PIPE X 72" LONG	61.00	197.00
A5				C5			
A6				C6			
B1	2" STD. PIPE X 72" LONG	61.00	12.00	D1			
B2	3-1/2"Ø X 3/8" THK. X 96" LONG	73.00	67.00	D2			
B3	2" STD. PIPE X 72" LONG	60.00	173.00	D3			
B4	2" STD. PIPE X 72" LONG	61.00	197.00	D4			
B5				D5			
B6				D6			

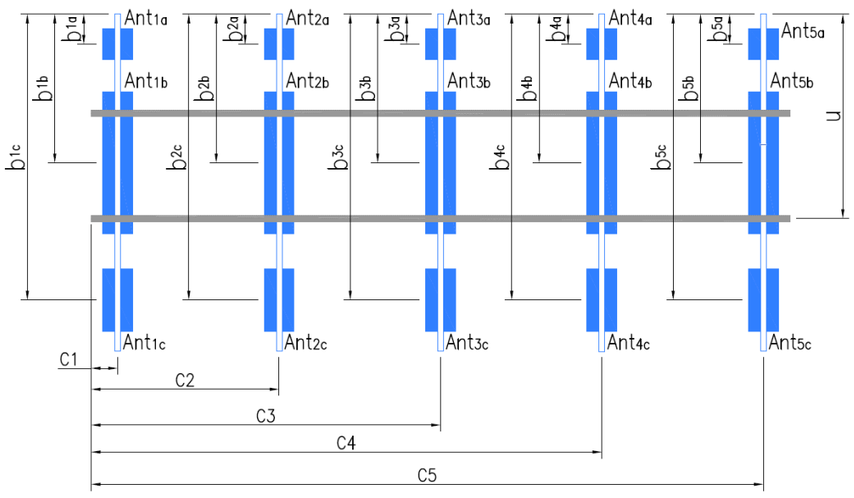
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	51.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	40
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	20

Please enter additional infomation or comments below.

MAST 6 INFO WILL BE LOCATED IN STANDOFF COLUMNS

Tower Face Width at Mount Elev. (ft.):	3.791	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	2.5



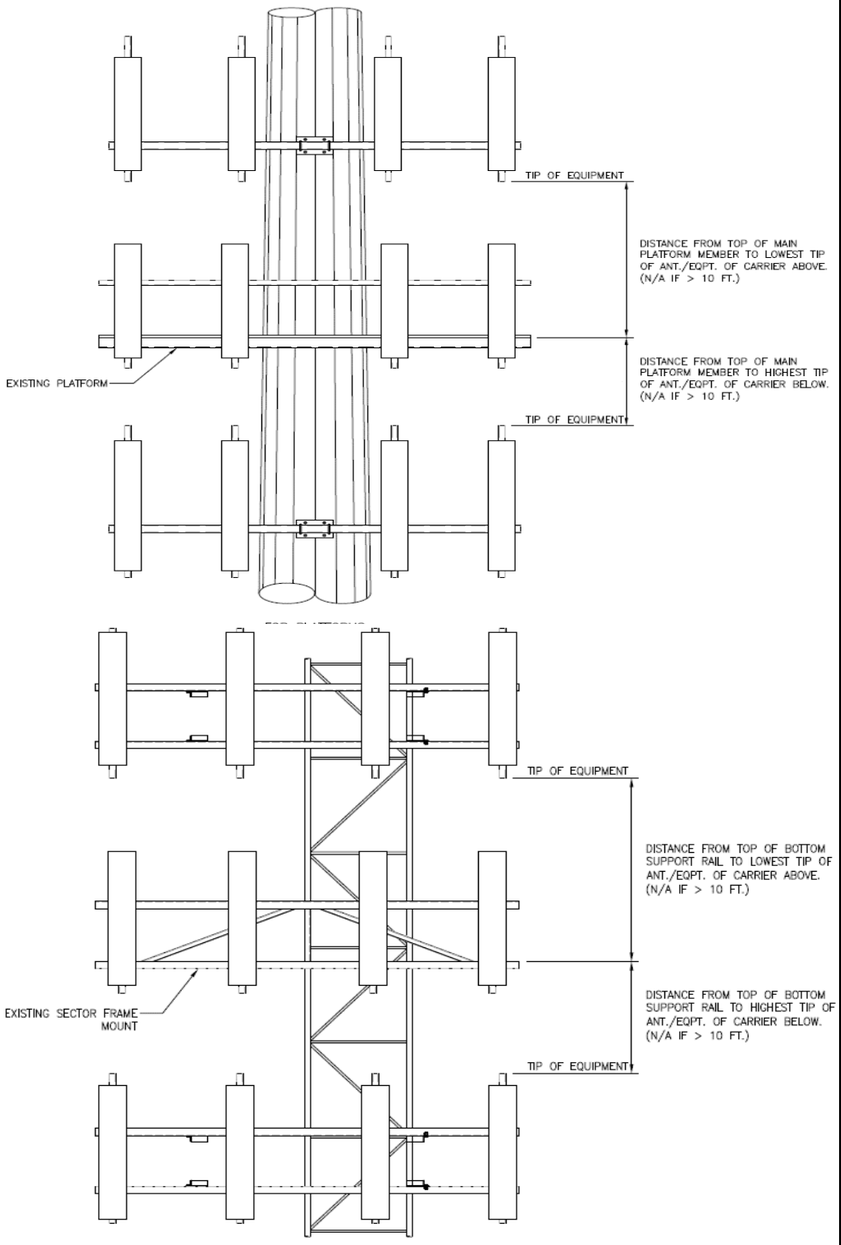


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	UNKNOWN ANTENNA	6.00	8.00	48.00		160.667	26.00	9.50	330.00	53
Ant_{1c}										
Ant_{2a}	RFV0U1-D2A	16.00	10.00	16.00		160.667	38.00	-9.50		53,92
Ant_{2b}	(2) JAHH-65B-R3B	14.00	8.50	73.00		160.833	36.00	14.00	0.00	53,100
Ant_{2c}	CBC78T-DS-43-DC	7.00	10.00	7.00		157.083	81.00	-9.00		98,99
Ant_{3a}										
Ant_{3b}	RT4401-48A	8.50	8.00	15.00		160.583	26.00	9.50	0.00	95,96
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN ANTENNA	6.00	8.00	48.00		160.667	26.00	9.50	330.00	57
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV0U1-D1A	16.00	12.00	16.00			31.00	-9.00		53,80
Ant on Standoff										
Ant on Tower	(2) RRFDC-3315-PF-48	15.00	10.00	28.00						107-110
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	330.00	Deg	Leg A:	23.00	Deg
Sector B:	80.00	Deg	Leg B:	143.00	Deg
Sector C:	200.00	Deg	Leg C:	263.00	Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	203.00	Deg	Outside Face C
Climbing Facility	Corrosion Type:		Good condition.
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}	UNKNOWN ANTENNA	6.00	8.00	48.00		160.667	26.00	9.50	80.00	58
Ant_{1c}										
Ant_{2a}	RFV0U1-D2A	16.00	10.00	16.00		160.667	38.00	-9.50		58,92
Ant_{2b}	(2) JAHH-65B-R3B	14.00	8.50	73.00		160.833	36.00	14.00	130.00	58,100
Ant_{2c}	CBC78T-DS-43-DC	7.00	10.00	7.00		157.083	81.00	-9.00		98,99
Ant_{3a}										
Ant_{3b}	RT4401-48A	8.50	8.00	15.00		160.583	26.00	9.50	130.00	59,95,96
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN ANTENNA	6.00	8.00	48.00		160.667	26.00	9.50	80.00	59
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV0U1-D1A	16.00	12.00	16.00			31.00	-9.00		58,80
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	UNKNOWN ANTENNA	6.00	8.00	48.00		160.667	26.00	9.50	215.00	60
Ant_{1c}										
Ant_{2a}	RFV0U1-D2A	16.00	10.00	16.00		160.667	38.00	-9.50		60,92
Ant_{2b}	(2) JAHH-65B-R3B	14.00	8.50	73.00		160.833	36.00	14.00	230.00	60,100
Ant_{2c}	CBC78T-DS-43-DC	7.00	10.00	7.00		157.083	81.00	-9.00		98,99
Ant_{3a}										
Ant_{3b}	RT4401-48A	8.50	8.00	15.00		160.583	26.00	9.50	230.00	95,96
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN ANTENNA	6.00	8.00	48.00		160.667	26.00	9.50	215.00	63
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RFV0U1-D1A	16.00	12.00	16.00			31.00	-9.00		60,80
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1		
2	(6) 1-5/8"Ø COAX, (6) 1-1/4"Ø COAX, (2) 1-1/4"Ø HYBRID	164-166
3		
4		
5		
6		
7		
8		

Mapping Notes
1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

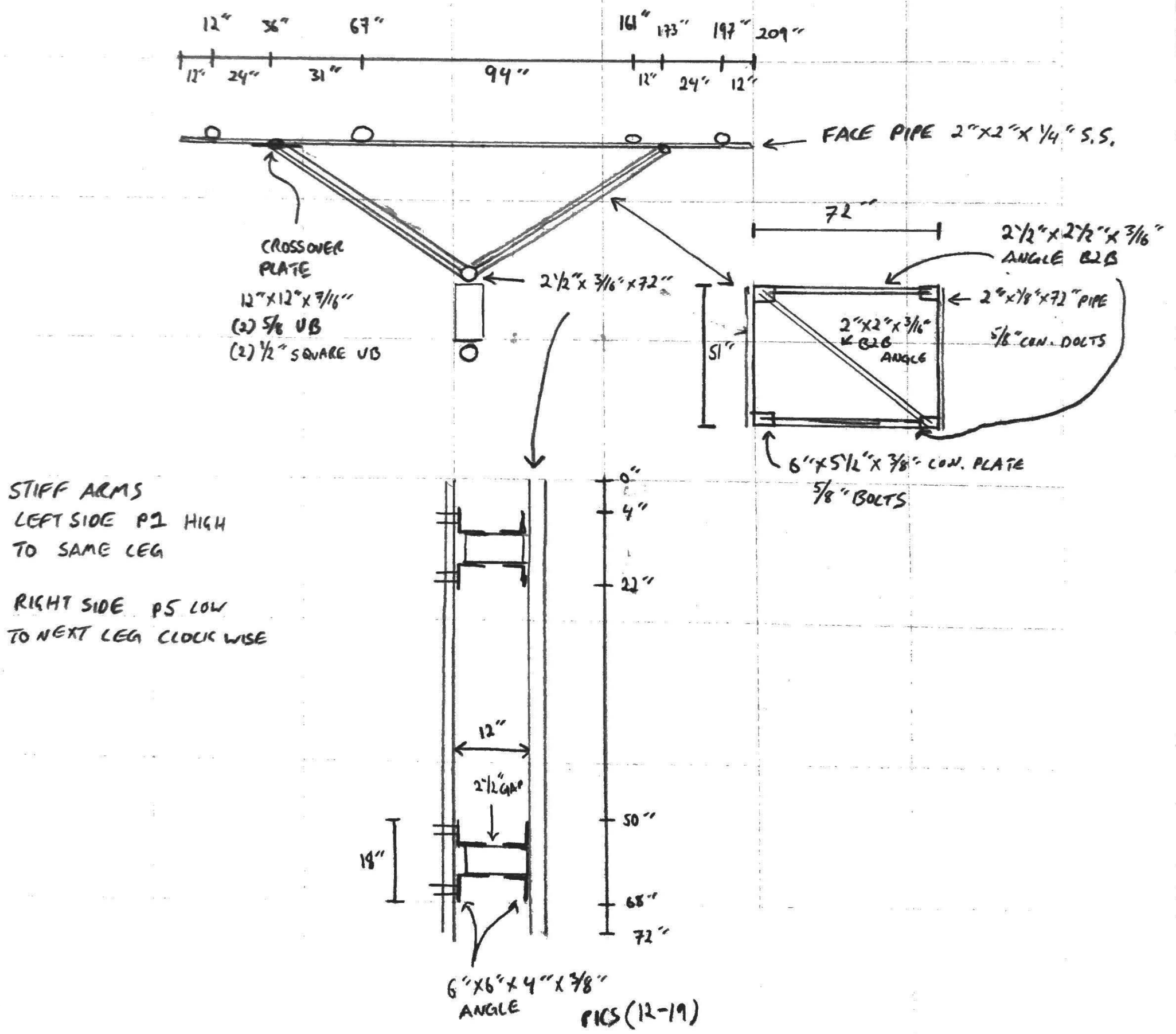
FCC #

Tower Owner:	CROWN CASTLE	**Mapping Date:**	3/23/2021
Site Name:	WILTON CT	**Tower Type:**	Self Support
Site Number or ID:	467241	**Tower Height (Ft.):**	180
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	162

Please Insert Sketches of the Antenna Mount

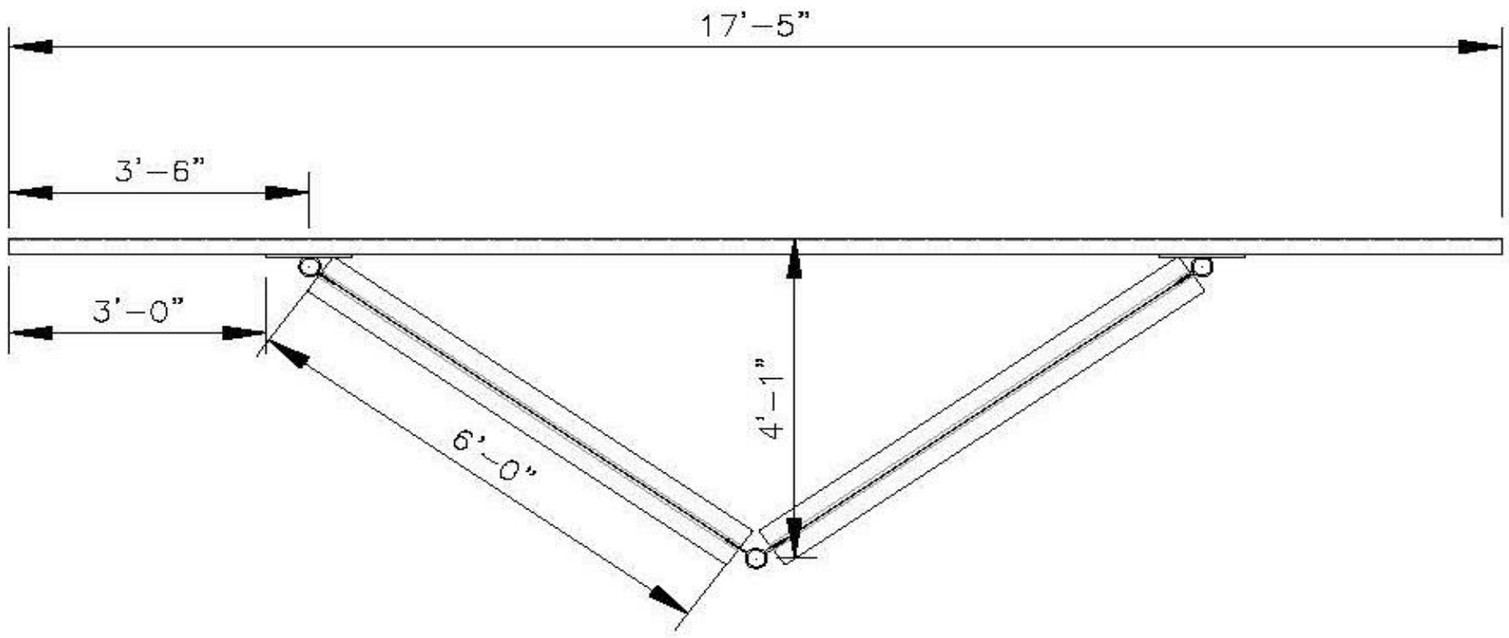
DATE: 03232021
Project Name: _____
Project No.: WILTON CT
Design By: _____ Chk'd By: _____ Page 2 of 2

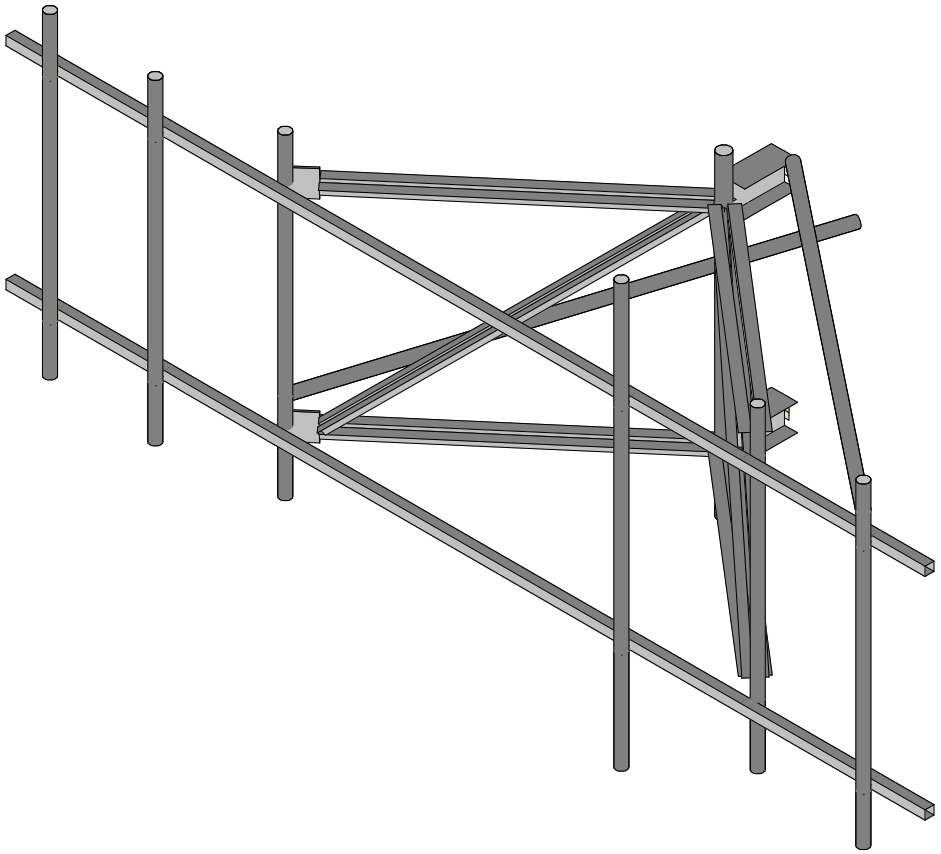
HUDSON Design Group LLC
45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845
TEL: (978) 557-5553 FAX: (978) 336-5586



157132

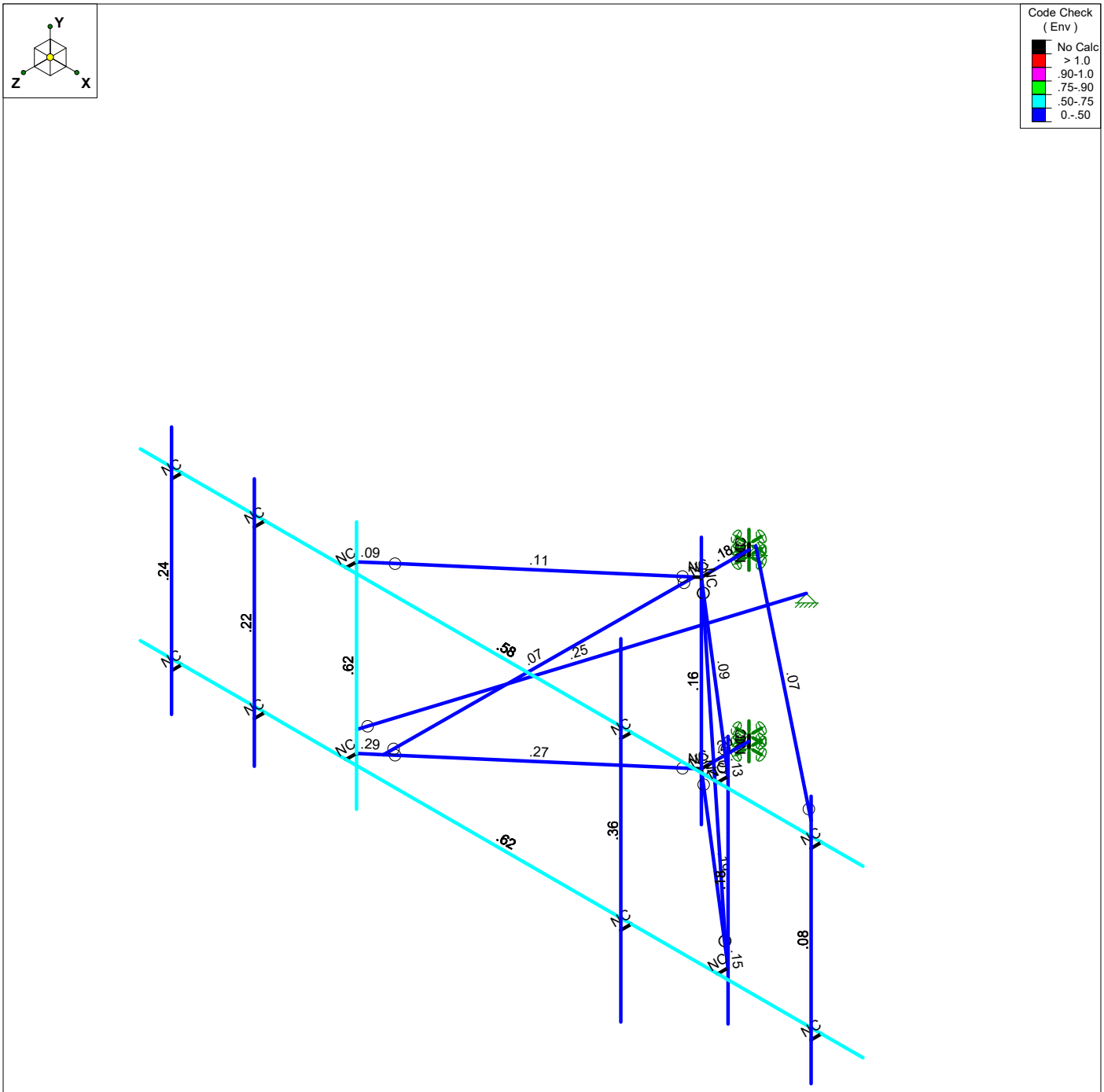
Please Insert Sketches of the Antenna Mount, cont'd





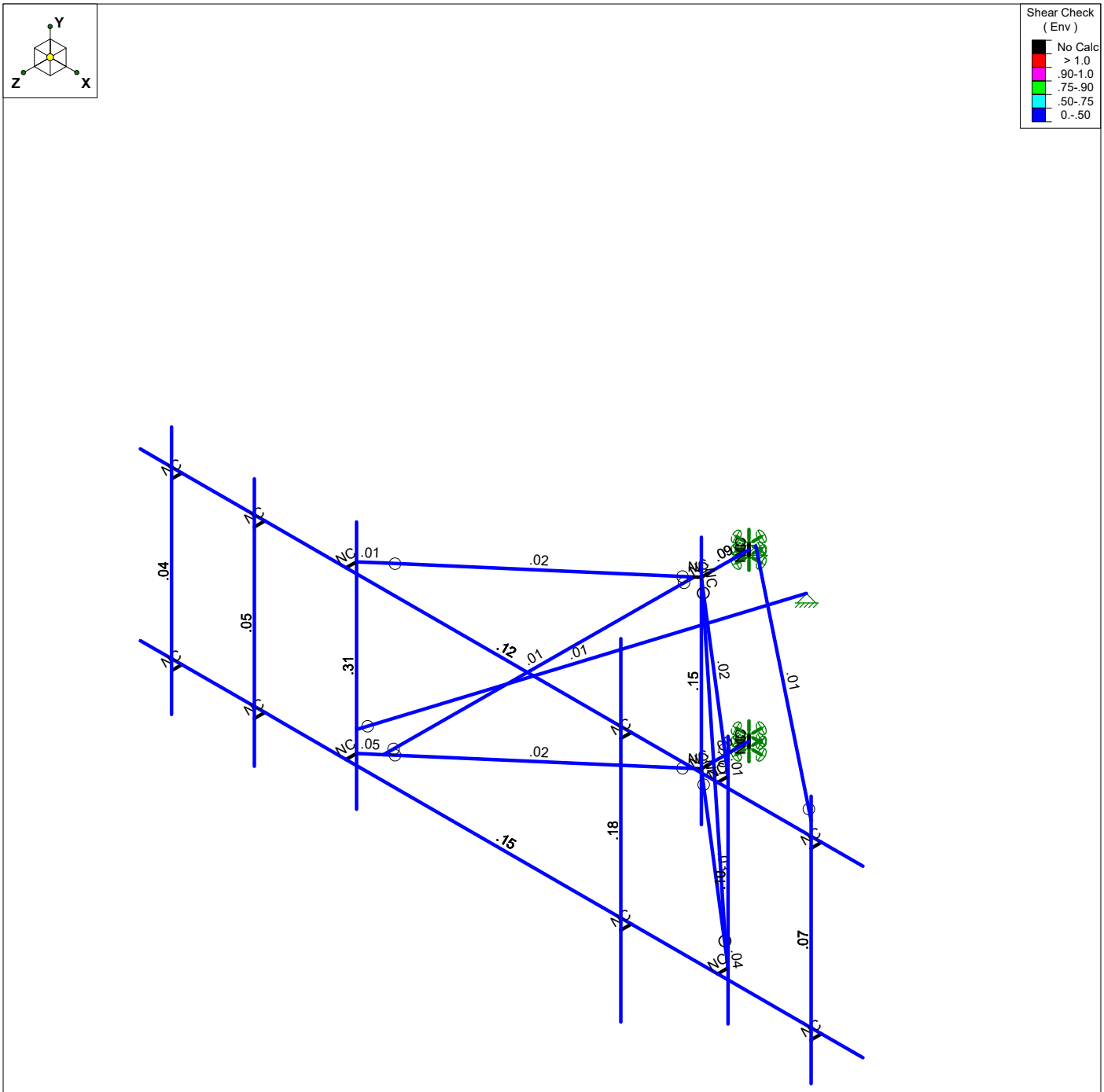
Envelope Only Solution

Maser Consulting		SK - 1
EK		Apr 12, 2022 at 2:59 PM
		No Gusset Plates_266791-VZW_...



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting		SK - 2
EK		Apr 12, 2022 at 2:59 PM
		No Gusset Plates_266791-VZW_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting		SK - 3
EK		Apr 12, 2022 at 2:59 PM
		No Gusset Plates_266791-VZW_...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
1	Antenna D	None					45			
2	Antenna Di	None					45			
3	Antenna Wo (0 Deg)	None					45			
4	Antenna Wo (30 Deg)	None					45			
5	Antenna Wo (60 Deg)	None					45			
6	Antenna Wo (90 Deg)	None					45			
7	Antenna Wo (120 Deg)	None					45			
8	Antenna Wo (150 Deg)	None					45			
9	Antenna Wo (180 Deg)	None					45			
10	Antenna Wo (210 Deg)	None					45			
11	Antenna Wo (240 Deg)	None					45			
12	Antenna Wo (270 Deg)	None					45			
13	Antenna Wo (300 Deg)	None					45			
14	Antenna Wo (330 Deg)	None					45			
15	Antenna Wi (0 Deg)	None					45			
16	Antenna Wi (30 Deg)	None					45			
17	Antenna Wi (60 Deg)	None					45			
18	Antenna Wi (90 Deg)	None					45			
19	Antenna Wi (120 Deg)	None					45			
20	Antenna Wi (150 Deg)	None					45			
21	Antenna Wi (180 Deg)	None					45			
22	Antenna Wi (210 Deg)	None					45			
23	Antenna Wi (240 Deg)	None					45			
24	Antenna Wi (270 Deg)	None					45			
25	Antenna Wi (300 Deg)	None					45			
26	Antenna Wi (330 Deg)	None					45			
27	Antenna Wm (0 Deg)	None					45			
28	Antenna Wm (30 Deg)	None					45			
29	Antenna Wm (60 Deg)	None					45			
30	Antenna Wm (90 Deg)	None					45			
31	Antenna Wm (120 Deg)	None					45			
32	Antenna Wm (150 Deg)	None					45			
33	Antenna Wm (180 Deg)	None					45			
34	Antenna Wm (210 Deg)	None					45			
35	Antenna Wm (240 Deg)	None					45			
36	Antenna Wm (270 Deg)	None					45			
37	Antenna Wm (300 Deg)	None					45			
38	Antenna Wm (330 Deg)	None					45			
39	Structure D	None		-1						
40	Structure Di	None						23		
41	Structure Wo (0 Deg)	None						46		
42	Structure Wo (30 Deg)	None						46		
43	Structure Wo (60 Deg)	None						46		
44	Structure Wo (90 Deg)	None						46		
45	Structure Wo (120 Deg)	None						46		
46	Structure Wo (150 Deg)	None						46		
47	Structure Wo (180 Deg)	None						46		
48	Structure Wo (210 Deg)	None						46		
49	Structure Wo (240 Deg)	None						46		
50	Structure Wo (270 Deg)	None						46		
51	Structure Wo (300 Deg)	None						46		
52	Structure Wo (330 Deg)	None						46		
53	Structure Wi (0 Deg)	None						46		
54	Structure Wi (30 Deg)	None						46		
55	Structure Wi (60 Deg)	None						46		
56	Structure Wi (90 Deg)	None						46		
57	Structure Wi (120 Deg)	None						46		
58	Structure Wi (150 Deg)	None						46		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
59	Structure Wi (180 Deg)	None						46		
60	Structure Wi (210 Deg)	None						46		
61	Structure Wi (240 Deg)	None						46		
62	Structure Wi (270 Deg)	None						46		
63	Structure Wi (300 Deg)	None						46		
64	Structure Wi (330 Deg)	None						46		
65	Structure Wm (0 Deg)	None						46		
66	Structure Wm (30 Deg)	None						46		
67	Structure Wm (60 Deg)	None						46		
68	Structure Wm (90 Deg)	None						46		
69	Structure Wm (120 Deg)	None						46		
70	Structure Wm (150 Deg)	None						46		
71	Structure Wm (180 Deg)	None						46		
72	Structure Wm (210 Deg)	None						46		
73	Structure Wm (240 Deg)	None						46		
74	Structure Wm (270 Deg)	None						46		
75	Structure Wm (300 Deg)	None						46		
76	Structure Wm (330 Deg)	None						46		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			

Load Combinations

	Description	Sol...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1														
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1														
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1														
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1														
5	1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1														
6	1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1														
7	1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1														
8	1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1														
9	1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1														
10	1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1														
11	1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1														
12	1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1														
13	1.2D + 1.0Di + 1.0Wi (0 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0Di + 1.0Wi (30 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0Di + 1.0Wi (60 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0Di + 1.0Wi (90 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0Di + 1.0Wi (120 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										
18	1.2D + 1.0Di + 1.0Wi (150 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1										
19	1.2D + 1.0Di + 1.0Wi (180 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1										
20	1.2D + 1.0Di + 1.0Wi (210 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1										
21	1.2D + 1.0Di + 1.0Wi (240 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1										
22	1.2D + 1.0Di + 1.0Wi (270 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1										
23	1.2D + 1.0Di + 1.0Wi (300 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1										
24	1.2D + 1.0Di + 1.0Wi (330 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1										
25	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1												
26	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1												
27	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1												
28	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1												
29	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1												
30	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1												
31	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1												
32	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1												

Load Combinations (Continued)

	Description	Sol...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
33	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic Mass				1	1	39	1																
53	1.2D + 1.0Ev + 1.0Eh (0 D...				1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1.0Eh (30 ...				1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866										
55	1.2D + 1.0Ev + 1.0Eh (60 ...				1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1.0Eh (90 ...				1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1.0Eh (120...				1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1.0Eh (150...				1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1.0Eh (180...				1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1.0Eh (210...				1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1.0Eh (240...				1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1.0Eh (270...				1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1.0Eh (300...				1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1.0Eh (330...				1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866										

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N1	-113.25	0	49	0	
2	N2	95.75	0	49	0	
3	N3	-113.25	-48	49	0	
4	N4	95.75	-48	49	0	
5	N5	-101.25	0	49	0	
6	N6	-101.25	-48	49	0	
7	N7	-77.25	0	49	0	
8	N8	-77.25	-48	49	0	
9	N9	28.75	0	49	0	
10	N10	28.75	-48	49	0	
11	N11	83.75	0	49	0	
12	N12	83.75	-48	49	0	
13	N13	-101.25	0	52	0	
14	N14	-101.25	-48	52	0	
15	N15	-77.25	0	52	0	
16	N16	-77.25	-48	52	0	
17	N17	28.75	0	52	0	
18	N18	28.75	-48	52	0	
19	N19	83.75	0	52	0	
20	N20	83.75	-48	52	0	
21	N21	-101.25	13	52	0	
22	N22	-77.25	12	52	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
23	N23	28.75	25	52	0	
24	N24	83.75	13	52	0	
25	N25	-101.25	-59	52	0	
26	N26	-77.25	-60	52	0	
27	N27	28.75	-71	52	0	
28	N28	83.75	-59	52	0	
29	N30	-72.25	-48	49	0	
30	N31	53.75	0	46	0	
31	N32	53.75	-48	49	0	
32	N39	53.75	0	49	0	
33	N41	53.75	-48	46	0	
34	N48	53.75	10	46	0	
35	N50	53.75	-62	46	0	
36	N83	53.75	-22	47	0	
37	N65	0	0	0	0	
38	N66	0	0	-1.75	0	
39	N67	0	0	-13.75	0	
40	N68	0	1.5	-13.75	0	
41	N69	0	-1.5	-13.75	0	
42	N71	0	-48	0	0	
43	N72	0	-48	-1.75	0	
44	N73	0	-48	-13.75	0	
45	N74A	0	-46.5	-13.75	0	
46	N75	0	-49.5	-13.75	0	
47	N79	0	10	0	0	
48	N80	0	-62	0	0	
49	N60	-8.75	0	49	0	
50	N57	0	0	-5.5	0	
51	N61	49.536043	0	42.393637	0	
52	N62	49.536043	-48	42.393637	0	
53	N57A	-53.75	0	46	0	
54	N58A	-53.75	-48	49	0	
55	N59A	-53.75	0	49	0	
56	N60B	-53.75	-48	46	0	
57	N61A	-53.75	10	46	0	
58	N62A	-53.75	-62	46	0	
59	N67A	-49.536043	0	42.393637	0	
60	N68A	-49.536043	-48	42.393637	0	
61	N69A	22.75	0	-53.154156	0	
62	N71B	83.75	7	52	0	
63	N68B	0	0	-15.75	0	
64	N69B	-53.75	-42	46	0	
65	N70	45.5	0	-13.75	0	
66	N74	-22.75	0	-53.154156	0	
67	N76	-45.5	0	-13.75	0	
68	N73A	-22.75	-42	-53.154156	0	
69	N76B	-1.139633	0	0.975314	0	
70	N77A	-1.139633	-48	0.975314	0	
71	N78	1.139633	-48	0.975314	0	
72	N79A	1.139633	0	0.975314	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Standoff Connection	PL3/8X6_...	Beam	Single Angle	A36 Gr.36	Typical	2.25	.026	6.75	.101
3	Standoff Horizontal	LL2.5x2.5x...	Beam	Double Angle (3...	A36 Gr.36	Typical	1.8	3.09	1.07	.023
4	Standoff Vertical	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
5	Standoff Diagonal	LL2x2x3x3	Beam	Double Angle (3...	A36 Gr.36	Typical	1.44	1.35	.542	.018
6	Face Horizontal	HSS2X2X4	Beam	HSS Pipe	A500 Gr. B 46	Typical	1.51	.747	.747	1.31
7	Tie Back	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
8	Connection Pipe	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
9	Connection Beam	W6X15	Beam	Pipe	A36 Gr.36	Typical	4.43	9.32	29.1	.101
10	Connection Plate	PL3/8X6_...	Beam	Single Angle	A36 Gr.36	Typical	2.25	.026	6.75	.101

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	HSS Pipe	A500 Gr. ...	Typical
2	M2	N3	N4			Face Horizontal	Beam	HSS Pipe	A500 Gr. ...	Typical
3	M3	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N7	N15			RIGID	None	None	RIGID	Typical
5	M5	N9	N17			RIGID	None	None	RIGID	Typical
6	M6	N11	N19			RIGID	None	None	RIGID	Typical
7	M7	N12	N20			RIGID	None	None	RIGID	Typical
8	M8	N10	N18			RIGID	None	None	RIGID	Typical
9	M9	N8	N16			RIGID	None	None	RIGID	Typical
10	M10	N6	N14			RIGID	None	None	RIGID	Typical
11	MP4A	N21	N25			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
12	MP3A	N22	N26			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
13	MP2A	N23	N27			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
14	MP1A	N24	N28			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
15	M22	N39	N31			RIGID	None	None	RIGID	Typical
16	M30	N32	N41			RIGID	None	None	RIGID	Typical
17	M32	N48	N50			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
18	M37	N65	N66			RIGID	None	None	RIGID	Typical
19	M38	N66	N67			Connection Be...	Beam	Pipe	A36 Gr.36	Typical
20	M39A	N67	N68			RIGID	None	None	RIGID	Typical
21	M40	N67	N69			RIGID	None	None	RIGID	Typical
22	M42	N71	N72			RIGID	None	None	RIGID	Typical
23	M43	N72	N73			Connection Be...	Beam	Pipe	A36 Gr.36	Typical
24	M44	N73	N74A			RIGID	None	None	RIGID	Typical
25	M45	N73	N75			RIGID	None	None	RIGID	Typical
26	OVP	N79	N80			Connection Pipe	Beam	Pipe	A53 Gr. B	Typical
27	M40B	N79A	N62			Standoff Diago...	Beam	Double Angle (...	A36 Gr.36	Typical
28	M39B	N61	N31			Standoff Conn...	Beam	Single Angle	A36 Gr.36	Typical
29	M40C	N79A	N61			Standoff Horiz...	Beam	Double Angle (...	A36 Gr.36	Typical
30	M42B	N62	N41			Standoff Conn...	Beam	Single Angle	A36 Gr.36	Typical
31	M43B	N78	N62			Standoff Horiz...	Beam	Double Angle (...	A36 Gr.36	Typical
32	M35	N59A	N57A			RIGID	None	None	RIGID	Typical
33	M36	N58A	N60B			RIGID	None	None	RIGID	Typical
34	M37A	N61A	N62A			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
35	M40A	N67A	N57A			Standoff Conn...	Beam	Single Angle	A36 Gr.36	Typical
36	M43A	N68A	N60B			Standoff Conn...	Beam	Single Angle	A36 Gr.36	Typical
37	M45A	N71B	N68B			Tie Back	Beam	Pipe	A53 Gr. B	Typical
38	M45B	N69B	N73A			Tie Back	Beam	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
39	M41	N76B	N68A			Standoff Diago...	Beam	Double Angle (...	A36 Gr.36	Typical
40	M43C	N76B	N67A			Standoff Horiz...	Beam	Double Angle (...	A36 Gr.36	Typical
41	M45C	N77A	N68A			Standoff Horiz...	Beam	Double Angle (...	A36 Gr.36	Typical
42	M42A	N71	N78			RIGID	None	None	RIGID	Typical
43	M43D	N71	N77A			RIGID	None	None	RIGID	Typical
44	M44A	N65	N79A			RIGID	None	None	RIGID	Typical
45	M45D	N65	N76B			RIGID	None	None	RIGID	Typical

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	Y	-43.55	6
2	MP3A	My	-.022	6
3	MP3A	Mz	-.013	6
4	MP3A	Y	-43.55	24
5	MP3A	My	-.022	24
6	MP3A	Mz	-.013	24
7	MP2A	Y	-31.65	6
8	MP2A	My	-.005	6
9	MP2A	Mz	-.028	6
10	MP2A	Y	-31.65	24
11	MP2A	My	-.005	24
12	MP2A	Mz	-.028	24
13	MP2A	Y	-31.65	6
14	MP2A	My	-.027	6
15	MP2A	Mz	.009	6
16	MP2A	Y	-31.65	24
17	MP2A	My	-.027	24
18	MP2A	Mz	.009	24
19	MP1A	Y	-3.15	6
20	MP1A	My	-.002	6
21	MP1A	Mz	0	6
22	MP1A	Y	-3.15	24
23	MP1A	My	-.002	24
24	MP1A	Mz	0	24
25	MP4A	Y	-3.15	6
26	MP4A	My	-.002	6
27	MP4A	Mz	0	6
28	MP4A	Y	-3.15	24
29	MP4A	My	-.002	24
30	MP4A	Mz	0	24
31	MP3A	Y	-18.7	60
32	MP3A	My	-.009	60
33	MP3A	Mz	-.005	60
34	M32	Y	-84.4	48
35	M32	My	0	48
36	M32	Mz	0	48
37	MP2A	Y	-70.3	48
38	MP2A	My	-.041	48
39	MP2A	Mz	0	48
40	MP2A	Y	-10.4	66
41	MP2A	My	-.006	66
42	MP2A	Mz	0	66
43	OVP	Y	-26.9	42
44	OVP	My	0	42
45	OVP	Mz	0	42

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	Y	-36.199	6
2	MP3A	My	-.018	6
3	MP3A	Mz	-.011	6
4	MP3A	Y	-36.199	24
5	MP3A	My	-.018	24
6	MP3A	Mz	-.011	24
7	MP2A	Y	-71.077	6
8	MP2A	My	-.012	6
9	MP2A	Mz	-.062	6
10	MP2A	Y	-71.077	24
11	MP2A	My	-.012	24
12	MP2A	Mz	-.062	24
13	MP2A	Y	-71.077	6
14	MP2A	My	-.06	6
15	MP2A	Mz	.02	6
16	MP2A	Y	-71.077	24
17	MP2A	My	-.06	24
18	MP2A	Mz	.02	24
19	MP1A	Y	-31.76	6
20	MP1A	My	-.019	6
21	MP1A	Mz	0	6
22	MP1A	Y	-31.76	24
23	MP1A	My	-.019	24
24	MP1A	Mz	0	24
25	MP4A	Y	-31.76	6
26	MP4A	My	-.019	6
27	MP4A	Mz	0	6
28	MP4A	Y	-31.76	24
29	MP4A	My	-.019	24
30	MP4A	Mz	0	24
31	MP3A	Y	-21.413	60
32	MP3A	My	-.011	60
33	MP3A	Mz	-.006	60
34	M32	Y	-45.649	48
35	M32	My	0	48
36	M32	Mz	0	48
37	MP2A	Y	-41.058	48
38	MP2A	My	-.024	48
39	MP2A	Mz	0	48
40	MP2A	Y	-10.942	66
41	MP2A	My	-.006	66
42	MP2A	Mz	0	66
43	OVP	Y	-56.201	42
44	OVP	My	0	42
45	OVP	Mz	0	42

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	0	6
2	MP3A	Z	-65.313	6
3	MP3A	Mx	.019	6
4	MP3A	X	0	24
5	MP3A	Z	-65.313	24
6	MP3A	Mx	.019	24
7	MP2A	X	0	6
8	MP2A	Z	-136.498	6
9	MP2A	Mx	.119	6
10	MP2A	X	0	24

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
11	MP2A	Z	-136.498	24
12	MP2A	Mx	.119	24
13	MP2A	X	0	6
14	MP2A	Z	-136.498	6
15	MP2A	Mx	-.039	6
16	MP2A	X	0	24
17	MP2A	Z	-136.498	24
18	MP2A	Mx	-.039	24
19	MP1A	X	0	6
20	MP1A	Z	-46.874	6
21	MP1A	Mx	0	6
22	MP1A	X	0	24
23	MP1A	Z	-46.874	24
24	MP1A	Mx	0	24
25	MP4A	X	0	6
26	MP4A	Z	-46.874	6
27	MP4A	Mx	0	6
28	MP4A	X	0	24
29	MP4A	Z	-46.874	24
30	MP4A	Mx	0	24
31	MP3A	X	0	60
32	MP3A	Z	-29.057	60
33	MP3A	Mx	.008	60
34	M32	X	0	48
35	M32	Z	-44.604	48
36	M32	Mx	0	48
37	MP2A	X	0	48
38	MP2A	Z	-61.297	48
39	MP2A	Mx	0	48
40	MP2A	X	0	66
41	MP2A	Z	-12.128	66
42	MP2A	Mx	0	66
43	OVP	X	0	42
44	OVP	Z	-58.349	42
45	OVP	Mx	0	42

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	38.516	6
2	MP3A	Z	-66.711	6
3	MP3A	Mx	0	6
4	MP3A	X	38.516	24
5	MP3A	Z	-66.711	24
6	MP3A	Mx	0	24
7	MP2A	X	74.655	6
8	MP2A	Z	-129.306	6
9	MP2A	Mx	.1	6
10	MP2A	X	74.655	24
11	MP2A	Z	-129.306	24
12	MP2A	Mx	.1	24
13	MP2A	X	74.655	6
14	MP2A	Z	-129.306	6
15	MP2A	Mx	-.1	6
16	MP2A	X	74.655	24
17	MP2A	Z	-129.306	24
18	MP2A	Mx	-.1	24
19	MP1A	X	24.984	6
20	MP1A	Z	-43.273	6

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
21	MP1A	Mx	-.015	6
22	MP1A	X	24.984	24
23	MP1A	Z	-43.273	24
24	MP1A	Mx	-.015	24
25	MP4A	X	24.984	6
26	MP4A	Z	-43.273	6
27	MP4A	Mx	-.015	6
28	MP4A	X	24.984	24
29	MP4A	Z	-43.273	24
30	MP4A	Mx	-.015	24
31	MP3A	X	16.39	60
32	MP3A	Z	-28.388	60
33	MP3A	Mx	0	60
34	M32	X	27.305	48
35	M32	Z	-47.294	48
36	M32	Mx	0	48
37	MP2A	X	27.135	48
38	MP2A	Z	-46.999	48
39	MP2A	Mx	-.016	48
40	MP2A	X	5.597	66
41	MP2A	Z	-9.694	66
42	MP2A	Mx	-.003	66
43	OVP	X	36.248	42
44	OVP	Z	-62.783	42
45	OVP	Mx	0	42

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	56.562	6
2	MP3A	Z	-32.656	6
3	MP3A	Mx	-.019	6
4	MP3A	X	56.562	24
5	MP3A	Z	-32.656	24
6	MP3A	Mx	-.019	24
7	MP2A	X	118.211	6
8	MP2A	Z	-68.249	6
9	MP2A	Mx	.039	6
10	MP2A	X	118.211	24
11	MP2A	Z	-68.249	24
12	MP2A	Mx	.039	24
13	MP2A	X	118.211	6
14	MP2A	Z	-68.249	6
15	MP2A	Mx	-.119	6
16	MP2A	X	118.211	24
17	MP2A	Z	-68.249	24
18	MP2A	Mx	-.119	24
19	MP1A	X	48.63	6
20	MP1A	Z	-28.076	6
21	MP1A	Mx	-.028	6
22	MP1A	X	48.63	24
23	MP1A	Z	-28.076	24
24	MP1A	Mx	-.028	24
25	MP4A	X	48.63	6
26	MP4A	Z	-28.076	6
27	MP4A	Mx	-.028	6
28	MP4A	X	48.63	24
29	MP4A	Z	-28.076	24
30	MP4A	Mx	-.028	24

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
31	MP3A	X	25.164	60
32	MP3A	Z	-14.529	60
33	MP3A	Mx	-.008	60
34	M32	X	52.951	48
35	M32	Z	-30.571	48
36	M32	Mx	0	48
37	MP2A	X	34.828	48
38	MP2A	Z	-20.108	48
39	MP2A	Mx	-.02	48
40	MP2A	X	8.076	66
41	MP2A	Z	-4.663	66
42	MP2A	Mx	-.005	66
43	OVP	X	70.78	42
44	OVP	Z	-40.865	42
45	OVP	Mx	0	42

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	41.876	6
2	MP3A	Z	0	6
3	MP3A	Mx	-.021	6
4	MP3A	X	41.876	24
5	MP3A	Z	0	24
6	MP3A	Mx	-.021	24
7	MP2A	X	110.876	6
8	MP2A	Z	0	6
9	MP2A	Mx	-.019	6
10	MP2A	X	110.876	24
11	MP2A	Z	0	24
12	MP2A	Mx	-.019	24
13	MP2A	X	110.876	6
14	MP2A	Z	0	6
15	MP2A	Mx	-.093	6
16	MP2A	X	110.876	24
17	MP2A	Z	0	24
18	MP2A	Mx	-.093	24
19	MP1A	X	59.245	6
20	MP1A	Z	0	6
21	MP1A	Mx	-.035	6
22	MP1A	X	59.245	24
23	MP1A	Z	0	24
24	MP1A	Mx	-.035	24
25	MP4A	X	59.245	6
26	MP4A	Z	0	6
27	MP4A	Mx	-.035	6
28	MP4A	X	59.245	24
29	MP4A	Z	0	24
30	MP4A	Mx	-.035	24
31	MP3A	X	21.614	60
32	MP3A	Z	0	60
33	MP3A	Mx	-.011	60
34	M32	X	57.667	48
35	M32	Z	0	48
36	M32	Mx	0	48
37	MP2A	X	33.189	48
38	MP2A	Z	0	48
39	MP2A	Mx	-.019	48
40	MP2A	X	8.391	66

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
41	MP2A	Z	0	66
42	MP2A	Mx	-.005	66
43	OVP	X	76.816	42
44	OVP	Z	0	42
45	OVP	Mx	0	42

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	26.117	6
2	MP3A	Z	15.079	6
3	MP3A	Mx	-.018	6
4	MP3A	X	26.117	24
5	MP3A	Z	15.079	24
6	MP3A	Mx	-.018	24
7	MP2A	X	84.926	6
8	MP2A	Z	49.032	6
9	MP2A	Mx	-.057	6
10	MP2A	X	84.926	24
11	MP2A	Z	49.032	24
12	MP2A	Mx	-.057	24
13	MP2A	X	84.926	6
14	MP2A	Z	49.032	6
15	MP2A	Mx	-.057	6
16	MP2A	X	84.926	24
17	MP2A	Z	49.032	24
18	MP2A	Mx	-.057	24
19	MP1A	X	48.63	6
20	MP1A	Z	28.076	6
21	MP1A	Mx	-.028	6
22	MP1A	X	48.63	24
23	MP1A	Z	28.076	24
24	MP1A	Mx	-.028	24
25	MP4A	X	48.63	6
26	MP4A	Z	28.076	6
27	MP4A	Mx	-.028	6
28	MP4A	X	48.63	24
29	MP4A	Z	28.076	24
30	MP4A	Mx	-.028	24
31	MP3A	X	15.495	60
32	MP3A	Z	8.946	60
33	MP3A	Mx	-.01	60
34	M32	X	41.275	48
35	M32	Z	23.83	48
36	M32	Mx	0	48
37	MP2A	X	34.828	48
38	MP2A	Z	20.108	48
39	MP2A	Mx	-.02	48
40	MP2A	X	8.076	66
41	MP2A	Z	4.663	66
42	MP2A	Mx	-.005	66
43	OVP	X	54.273	42
44	OVP	Z	31.335	42
45	OVP	Mx	0	42

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	20.938	6
2	MP3A	Z	36.266	6

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
3	MP3A	Mx	-.021	6
4	MP3A	X	20.938	24
5	MP3A	Z	36.266	24
6	MP3A	Mx	-.021	24
7	MP2A	X	55.438	6
8	MP2A	Z	96.021	6
9	MP2A	Mx	-.093	6
10	MP2A	X	55.438	24
11	MP2A	Z	96.021	24
12	MP2A	Mx	-.093	24
13	MP2A	X	55.438	6
14	MP2A	Z	96.021	6
15	MP2A	Mx	-.019	6
16	MP2A	X	55.438	24
17	MP2A	Z	96.021	24
18	MP2A	Mx	-.019	24
19	MP1A	X	24.984	6
20	MP1A	Z	43.273	6
21	MP1A	Mx	-.015	6
22	MP1A	X	24.984	24
23	MP1A	Z	43.273	24
24	MP1A	Mx	-.015	24
25	MP4A	X	24.984	6
26	MP4A	Z	43.273	6
27	MP4A	Mx	-.015	6
28	MP4A	X	24.984	24
29	MP4A	Z	43.273	24
30	MP4A	Mx	-.015	24
31	MP3A	X	10.807	60
32	MP3A	Z	18.718	60
33	MP3A	Mx	-.011	60
34	M32	X	20.564	48
35	M32	Z	35.618	48
36	M32	Mx	0	48
37	MP2A	X	27.135	48
38	MP2A	Z	46.999	48
39	MP2A	Mx	-.016	48
40	MP2A	X	5.597	66
41	MP2A	Z	9.694	66
42	MP2A	Mx	-.003	66
43	OVP	X	26.718	42
44	OVP	Z	46.276	42
45	OVP	Mx	0	42

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	0	6
2	MP3A	Z	65.313	6
3	MP3A	Mx	-.019	6
4	MP3A	X	0	24
5	MP3A	Z	65.313	24
6	MP3A	Mx	-.019	24
7	MP2A	X	0	6
8	MP2A	Z	136.498	6
9	MP2A	Mx	-.119	6
10	MP2A	X	0	24
11	MP2A	Z	136.498	24
12	MP2A	Mx	-.119	24

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
13	MP2A	X	0	6
14	MP2A	Z	136.498	6
15	MP2A	Mx	.039	6
16	MP2A	X	0	24
17	MP2A	Z	136.498	24
18	MP2A	Mx	.039	24
19	MP1A	X	0	6
20	MP1A	Z	46.874	6
21	MP1A	Mx	0	6
22	MP1A	X	0	24
23	MP1A	Z	46.874	24
24	MP1A	Mx	0	24
25	MP4A	X	0	6
26	MP4A	Z	46.874	6
27	MP4A	Mx	0	6
28	MP4A	X	0	24
29	MP4A	Z	46.874	24
30	MP4A	Mx	0	24
31	MP3A	X	0	60
32	MP3A	Z	29.057	60
33	MP3A	Mx	-.008	60
34	M32	X	0	48
35	M32	Z	44.604	48
36	M32	Mx	0	48
37	MP2A	X	0	48
38	MP2A	Z	61.297	48
39	MP2A	Mx	0	48
40	MP2A	X	0	66
41	MP2A	Z	12.128	66
42	MP2A	Mx	0	66
43	OVP	X	0	42
44	OVP	Z	58.349	42
45	OVP	Mx	0	42

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-38.516	6
2	MP3A	Z	66.711	6
3	MP3A	Mx	0	6
4	MP3A	X	-38.516	24
5	MP3A	Z	66.711	24
6	MP3A	Mx	0	24
7	MP2A	X	-74.655	6
8	MP2A	Z	129.306	6
9	MP2A	Mx	-.1	6
10	MP2A	X	-74.655	24
11	MP2A	Z	129.306	24
12	MP2A	Mx	-.1	24
13	MP2A	X	-74.655	6
14	MP2A	Z	129.306	6
15	MP2A	Mx	.1	6
16	MP2A	X	-74.655	24
17	MP2A	Z	129.306	24
18	MP2A	Mx	.1	24
19	MP1A	X	-24.984	6
20	MP1A	Z	43.273	6
21	MP1A	Mx	.015	6
22	MP1A	X	-24.984	24

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	43.273	24
24	MP1A	Mx	.015	24
25	MP4A	X	-24.984	6
26	MP4A	Z	43.273	6
27	MP4A	Mx	.015	6
28	MP4A	X	-24.984	24
29	MP4A	Z	43.273	24
30	MP4A	Mx	.015	24
31	MP3A	X	-16.39	60
32	MP3A	Z	28.388	60
33	MP3A	Mx	0	60
34	M32	X	-27.305	48
35	M32	Z	47.294	48
36	M32	Mx	0	48
37	MP2A	X	-27.135	48
38	MP2A	Z	46.999	48
39	MP2A	Mx	.016	48
40	MP2A	X	-5.597	66
41	MP2A	Z	9.694	66
42	MP2A	Mx	.003	66
43	OVP	X	-36.248	42
44	OVP	Z	62.783	42
45	OVP	Mx	0	42

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-56.562	6
2	MP3A	Z	32.656	6
3	MP3A	Mx	.019	6
4	MP3A	X	-56.562	24
5	MP3A	Z	32.656	24
6	MP3A	Mx	.019	24
7	MP2A	X	-118.211	6
8	MP2A	Z	68.249	6
9	MP2A	Mx	-.039	6
10	MP2A	X	-118.211	24
11	MP2A	Z	68.249	24
12	MP2A	Mx	-.039	24
13	MP2A	X	-118.211	6
14	MP2A	Z	68.249	6
15	MP2A	Mx	.119	6
16	MP2A	X	-118.211	24
17	MP2A	Z	68.249	24
18	MP2A	Mx	.119	24
19	MP1A	X	-48.63	6
20	MP1A	Z	28.076	6
21	MP1A	Mx	.028	6
22	MP1A	X	-48.63	24
23	MP1A	Z	28.076	24
24	MP1A	Mx	.028	24
25	MP4A	X	-48.63	6
26	MP4A	Z	28.076	6
27	MP4A	Mx	.028	6
28	MP4A	X	-48.63	24
29	MP4A	Z	28.076	24
30	MP4A	Mx	.028	24
31	MP3A	X	-25.164	60
32	MP3A	Z	14.529	60

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
33	MP3A	Mx	.008	60
34	M32	X	-52.951	48
35	M32	Z	30.571	48
36	M32	Mx	0	48
37	MP2A	X	-34.828	48
38	MP2A	Z	20.108	48
39	MP2A	Mx	.02	48
40	MP2A	X	-8.076	66
41	MP2A	Z	4.663	66
42	MP2A	Mx	.005	66
43	OVP	X	-70.78	42
44	OVP	Z	40.865	42
45	OVP	Mx	0	42

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-41.876	6
2	MP3A	Z	0	6
3	MP3A	Mx	.021	6
4	MP3A	X	-41.876	24
5	MP3A	Z	0	24
6	MP3A	Mx	.021	24
7	MP2A	X	-110.876	6
8	MP2A	Z	0	6
9	MP2A	Mx	.019	6
10	MP2A	X	-110.876	24
11	MP2A	Z	0	24
12	MP2A	Mx	.019	24
13	MP2A	X	-110.876	6
14	MP2A	Z	0	6
15	MP2A	Mx	.093	6
16	MP2A	X	-110.876	24
17	MP2A	Z	0	24
18	MP2A	Mx	.093	24
19	MP1A	X	-59.245	6
20	MP1A	Z	0	6
21	MP1A	Mx	.035	6
22	MP1A	X	-59.245	24
23	MP1A	Z	0	24
24	MP1A	Mx	.035	24
25	MP4A	X	-59.245	6
26	MP4A	Z	0	6
27	MP4A	Mx	.035	6
28	MP4A	X	-59.245	24
29	MP4A	Z	0	24
30	MP4A	Mx	.035	24
31	MP3A	X	-21.614	60
32	MP3A	Z	0	60
33	MP3A	Mx	.011	60
34	M32	X	-57.667	48
35	M32	Z	0	48
36	M32	Mx	0	48
37	MP2A	X	-33.189	48
38	MP2A	Z	0	48
39	MP2A	Mx	.019	48
40	MP2A	X	-8.391	66
41	MP2A	Z	0	66
42	MP2A	Mx	.005	66

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
43	OVP	X	-76.816	42
44	OVP	Z	0	42
45	OVP	Mx	0	42

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-26.117	6
2	MP3A	Z	-15.079	6
3	MP3A	Mx	.018	6
4	MP3A	X	-26.117	24
5	MP3A	Z	-15.079	24
6	MP3A	Mx	.018	24
7	MP2A	X	-84.926	6
8	MP2A	Z	-49.032	6
9	MP2A	Mx	.057	6
10	MP2A	X	-84.926	24
11	MP2A	Z	-49.032	24
12	MP2A	Mx	.057	24
13	MP2A	X	-84.926	6
14	MP2A	Z	-49.032	6
15	MP2A	Mx	.057	6
16	MP2A	X	-84.926	24
17	MP2A	Z	-49.032	24
18	MP2A	Mx	.057	24
19	MP1A	X	-48.63	6
20	MP1A	Z	-28.076	6
21	MP1A	Mx	.028	6
22	MP1A	X	-48.63	24
23	MP1A	Z	-28.076	24
24	MP1A	Mx	.028	24
25	MP4A	X	-48.63	6
26	MP4A	Z	-28.076	6
27	MP4A	Mx	.028	6
28	MP4A	X	-48.63	24
29	MP4A	Z	-28.076	24
30	MP4A	Mx	.028	24
31	MP3A	X	-15.495	60
32	MP3A	Z	-8.946	60
33	MP3A	Mx	.01	60
34	M32	X	-41.275	48
35	M32	Z	-23.83	48
36	M32	Mx	0	48
37	MP2A	X	-34.828	48
38	MP2A	Z	-20.108	48
39	MP2A	Mx	.02	48
40	MP2A	X	-8.076	66
41	MP2A	Z	-4.663	66
42	MP2A	Mx	.005	66
43	OVP	X	-54.273	42
44	OVP	Z	-31.335	42
45	OVP	Mx	0	42

Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-20.938	6
2	MP3A	Z	-36.266	6
3	MP3A	Mx	.021	6
4	MP3A	X	-20.938	24

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
5	MP3A	Z	-36.266	24
6	MP3A	Mx	.021	24
7	MP2A	X	-55.438	6
8	MP2A	Z	-96.021	6
9	MP2A	Mx	.093	6
10	MP2A	X	-55.438	24
11	MP2A	Z	-96.021	24
12	MP2A	Mx	.093	24
13	MP2A	X	-55.438	6
14	MP2A	Z	-96.021	6
15	MP2A	Mx	.019	6
16	MP2A	X	-55.438	24
17	MP2A	Z	-96.021	24
18	MP2A	Mx	.019	24
19	MP1A	X	-24.984	6
20	MP1A	Z	-43.273	6
21	MP1A	Mx	.015	6
22	MP1A	X	-24.984	24
23	MP1A	Z	-43.273	24
24	MP1A	Mx	.015	24
25	MP4A	X	-24.984	6
26	MP4A	Z	-43.273	6
27	MP4A	Mx	.015	6
28	MP4A	X	-24.984	24
29	MP4A	Z	-43.273	24
30	MP4A	Mx	.015	24
31	MP3A	X	-10.807	60
32	MP3A	Z	-18.718	60
33	MP3A	Mx	.011	60
34	M32	X	-20.564	48
35	M32	Z	-35.618	48
36	M32	Mx	0	48
37	MP2A	X	-27.135	48
38	MP2A	Z	-46.999	48
39	MP2A	Mx	.016	48
40	MP2A	X	-5.597	66
41	MP2A	Z	-9.694	66
42	MP2A	Mx	.003	66
43	OVP	X	-26.718	42
44	OVP	Z	-46.276	42
45	OVP	Mx	0	42

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	0	6
2	MP3A	Z	-13.874	6
3	MP3A	Mx	.004	6
4	MP3A	X	0	24
5	MP3A	Z	-13.874	24
6	MP3A	Mx	.004	24
7	MP2A	X	0	6
8	MP2A	Z	-28.023	6
9	MP2A	Mx	.024	6
10	MP2A	X	0	24
11	MP2A	Z	-28.023	24
12	MP2A	Mx	.024	24
13	MP2A	X	0	6
14	MP2A	Z	-28.023	6

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
15	MP2A	Mx	-.008	6
16	MP2A	X	0	24
17	MP2A	Z	-28.023	24
18	MP2A	Mx	-.008	24
19	MP1A	X	0	6
20	MP1A	Z	-10.437	6
21	MP1A	Mx	0	6
22	MP1A	X	0	24
23	MP1A	Z	-10.437	24
24	MP1A	Mx	0	24
25	MP4A	X	0	6
26	MP4A	Z	-10.437	6
27	MP4A	Mx	0	6
28	MP4A	X	0	24
29	MP4A	Z	-10.437	24
30	MP4A	Mx	0	24
31	MP3A	X	0	60
32	MP3A	Z	-7.438	60
33	MP3A	Mx	.002	60
34	M32	X	0	48
35	M32	Z	-10.25	48
36	M32	Mx	0	48
37	MP2A	X	0	48
38	MP2A	Z	-13.661	48
39	MP2A	Mx	0	48
40	MP2A	X	0	66
41	MP2A	Z	-3.326	66
42	MP2A	Mx	0	66
43	OVP	X	0	42
44	OVP	Z	-13.101	42
45	OVP	Mx	0	42

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	8.098	6
2	MP3A	Z	-14.026	6
3	MP3A	Mx	0	6
4	MP3A	X	8.098	24
5	MP3A	Z	-14.026	24
6	MP3A	Mx	0	24
7	MP2A	X	15.219	6
8	MP2A	Z	-26.361	6
9	MP2A	Mx	.02	6
10	MP2A	X	15.219	24
11	MP2A	Z	-26.361	24
12	MP2A	Mx	.02	24
13	MP2A	X	15.219	6
14	MP2A	Z	-26.361	6
15	MP2A	Mx	-.02	6
16	MP2A	X	15.219	24
17	MP2A	Z	-26.361	24
18	MP2A	Mx	-.02	24
19	MP1A	X	5.511	6
20	MP1A	Z	-9.545	6
21	MP1A	Mx	-.003	6
22	MP1A	X	5.511	24
23	MP1A	Z	-9.545	24
24	MP1A	Mx	-.003	24

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
25	MP4A	X	5.511	6
26	MP4A	Z	-9.545	6
27	MP4A	Mx	-.003	6
28	MP4A	X	5.511	24
29	MP4A	Z	-9.545	24
30	MP4A	Mx	-.003	24
31	MP3A	X	4.173	60
32	MP3A	Z	-7.227	60
33	MP3A	Mx	0	60
34	M32	X	6.148	48
35	M32	Z	-10.648	48
36	M32	Mx	0	48
37	MP2A	X	6.114	48
38	MP2A	Z	-10.59	48
39	MP2A	Mx	-.004	48
40	MP2A	X	1.559	66
41	MP2A	Z	-2.701	66
42	MP2A	Mx	-.000909	66
43	OVP	X	7.957	42
44	OVP	Z	-13.782	42
45	OVP	Mx	0	42

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	12.015	6
2	MP3A	Z	-6.937	6
3	MP3A	Mx	-.004	6
4	MP3A	X	12.015	24
5	MP3A	Z	-6.937	24
6	MP3A	Mx	-.004	24
7	MP2A	X	24.269	6
8	MP2A	Z	-14.011	6
9	MP2A	Mx	.008	6
10	MP2A	X	24.269	24
11	MP2A	Z	-14.011	24
12	MP2A	Mx	.008	24
13	MP2A	X	24.269	6
14	MP2A	Z	-14.011	6
15	MP2A	Mx	-.024	6
16	MP2A	X	24.269	24
17	MP2A	Z	-14.011	24
18	MP2A	Mx	-.024	24
19	MP1A	X	10.556	6
20	MP1A	Z	-6.095	6
21	MP1A	Mx	-.006	6
22	MP1A	X	10.556	24
23	MP1A	Z	-6.095	24
24	MP1A	Mx	-.006	24
25	MP4A	X	10.556	6
26	MP4A	Z	-6.095	6
27	MP4A	Mx	-.006	6
28	MP4A	X	10.556	24
29	MP4A	Z	-6.095	24
30	MP4A	Mx	-.006	24
31	MP3A	X	6.442	60
32	MP3A	Z	-3.719	60
33	MP3A	Mx	-.002	60
34	M32	X	11.804	48

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
35	M32	Z	-6.815	48
36	M32	Mx	0	48
37	MP2A	X	8.109	48
38	MP2A	Z	-4.681	48
39	MP2A	Mx	-.005	48
40	MP2A	X	2.343	66
41	MP2A	Z	-1.352	66
42	MP2A	Mx	-.001	66
43	OVP	X	15.372	42
44	OVP	Z	-8.875	42
45	OVP	Mx	0	42

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	9.23	6
2	MP3A	Z	0	6
3	MP3A	Mx	-.005	6
4	MP3A	X	9.23	24
5	MP3A	Z	0	24
6	MP3A	Mx	-.005	24
7	MP2A	X	23.191	6
8	MP2A	Z	0	6
9	MP2A	Mx	-.004	6
10	MP2A	X	23.191	24
11	MP2A	Z	0	24
12	MP2A	Mx	-.004	24
13	MP2A	X	23.191	6
14	MP2A	Z	0	6
15	MP2A	Mx	-.019	6
16	MP2A	X	23.191	24
17	MP2A	Z	0	24
18	MP2A	Mx	-.019	24
19	MP1A	X	12.773	6
20	MP1A	Z	0	6
21	MP1A	Mx	-.007	6
22	MP1A	X	12.773	24
23	MP1A	Z	0	24
24	MP1A	Mx	-.007	24
25	MP4A	X	12.773	6
26	MP4A	Z	0	6
27	MP4A	Mx	-.007	6
28	MP4A	X	12.773	24
29	MP4A	Z	0	24
30	MP4A	Mx	-.007	24
31	MP3A	X	5.623	60
32	MP3A	Z	0	60
33	MP3A	Mx	-.003	60
34	M32	X	12.92	48
35	M32	Z	0	48
36	M32	Mx	0	48
37	MP2A	X	7.93	48
38	MP2A	Z	0	48
39	MP2A	Mx	-.005	48
40	MP2A	X	2.498	66
41	MP2A	Z	0	66
42	MP2A	Mx	-.001	66
43	OVP	X	16.773	42
44	OVP	Z	0	42

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
45	OVP	Mx	0	42

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	5.982	6
2	MP3A	Z	3.454	6
3	MP3A	Mx	-.004	6
4	MP3A	X	5.982	24
5	MP3A	Z	3.454	24
6	MP3A	Mx	-.004	24
7	MP2A	X	17.992	6
8	MP2A	Z	10.388	6
9	MP2A	Mx	-.012	6
10	MP2A	X	17.992	24
11	MP2A	Z	10.388	24
12	MP2A	Mx	-.012	24
13	MP2A	X	17.992	6
14	MP2A	Z	10.388	6
15	MP2A	Mx	-.012	6
16	MP2A	X	17.992	24
17	MP2A	Z	10.388	24
18	MP2A	Mx	-.012	24
19	MP1A	X	10.556	6
20	MP1A	Z	6.095	6
21	MP1A	Mx	-.006	6
22	MP1A	X	10.556	24
23	MP1A	Z	6.095	24
24	MP1A	Mx	-.006	24
25	MP4A	X	10.556	6
26	MP4A	Z	6.095	6
27	MP4A	Mx	-.006	6
28	MP4A	X	10.556	24
29	MP4A	Z	6.095	24
30	MP4A	Mx	-.006	24
31	MP3A	X	4.084	60
32	MP3A	Z	2.358	60
33	MP3A	Mx	-.003	60
34	M32	X	9.418	48
35	M32	Z	5.437	48
36	M32	Mx	0	48
37	MP2A	X	8.109	48
38	MP2A	Z	4.681	48
39	MP2A	Mx	-.005	48
40	MP2A	X	2.343	66
41	MP2A	Z	1.352	66
42	MP2A	Mx	-.001	66
43	OVP	X	12.09	42
44	OVP	Z	6.98	42
45	OVP	Mx	0	42

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	4.615	6
2	MP3A	Z	7.993	6
3	MP3A	Mx	-.005	6
4	MP3A	X	4.615	24
5	MP3A	Z	7.993	24
6	MP3A	Mx	-.005	24

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
7	MP2A	X	11.596	6
8	MP2A	Z	20.084	6
9	MP2A	Mx	-.019	6
10	MP2A	X	11.596	24
11	MP2A	Z	20.084	24
12	MP2A	Mx	-.019	24
13	MP2A	X	11.596	6
14	MP2A	Z	20.084	6
15	MP2A	Mx	-.004	6
16	MP2A	X	11.596	24
17	MP2A	Z	20.084	24
18	MP2A	Mx	-.004	24
19	MP1A	X	5.511	6
20	MP1A	Z	9.545	6
21	MP1A	Mx	-.003	6
22	MP1A	X	5.511	24
23	MP1A	Z	9.545	24
24	MP1A	Mx	-.003	24
25	MP4A	X	5.511	6
26	MP4A	Z	9.545	6
27	MP4A	Mx	-.003	6
28	MP4A	X	5.511	24
29	MP4A	Z	9.545	24
30	MP4A	Mx	-.003	24
31	MP3A	X	2.812	60
32	MP3A	Z	4.87	60
33	MP3A	Mx	-.003	60
34	M32	X	4.77	48
35	M32	Z	8.262	48
36	M32	Mx	0	48
37	MP2A	X	6.114	48
38	MP2A	Z	10.59	48
39	MP2A	Mx	-.004	48
40	MP2A	X	1.559	66
41	MP2A	Z	2.701	66
42	MP2A	Mx	-.000909	66
43	OVP	X	6.062	42
44	OVP	Z	10.5	42
45	OVP	Mx	0	42

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	0	6
2	MP3A	Z	13.874	6
3	MP3A	Mx	-.004	6
4	MP3A	X	0	24
5	MP3A	Z	13.874	24
6	MP3A	Mx	-.004	24
7	MP2A	X	0	6
8	MP2A	Z	28.023	6
9	MP2A	Mx	-.024	6
10	MP2A	X	0	24
11	MP2A	Z	28.023	24
12	MP2A	Mx	-.024	24
13	MP2A	X	0	6
14	MP2A	Z	28.023	6
15	MP2A	Mx	.008	6
16	MP2A	X	0	24

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
17	MP2A	Z	28.023	24
18	MP2A	Mx	.008	24
19	MP1A	X	0	6
20	MP1A	Z	10.437	6
21	MP1A	Mx	0	6
22	MP1A	X	0	24
23	MP1A	Z	10.437	24
24	MP1A	Mx	0	24
25	MP4A	X	0	6
26	MP4A	Z	10.437	6
27	MP4A	Mx	0	6
28	MP4A	X	0	24
29	MP4A	Z	10.437	24
30	MP4A	Mx	0	24
31	MP3A	X	0	60
32	MP3A	Z	7.438	60
33	MP3A	Mx	-.002	60
34	M32	X	0	48
35	M32	Z	10.25	48
36	M32	Mx	0	48
37	MP2A	X	0	48
38	MP2A	Z	13.661	48
39	MP2A	Mx	0	48
40	MP2A	X	0	66
41	MP2A	Z	3.326	66
42	MP2A	Mx	0	66
43	OVP	X	0	42
44	OVP	Z	13.101	42
45	OVP	Mx	0	42

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-8.098	6
2	MP3A	Z	14.026	6
3	MP3A	Mx	0	6
4	MP3A	X	-8.098	24
5	MP3A	Z	14.026	24
6	MP3A	Mx	0	24
7	MP2A	X	-15.219	6
8	MP2A	Z	26.361	6
9	MP2A	Mx	-.02	6
10	MP2A	X	-15.219	24
11	MP2A	Z	26.361	24
12	MP2A	Mx	-.02	24
13	MP2A	X	-15.219	6
14	MP2A	Z	26.361	6
15	MP2A	Mx	.02	6
16	MP2A	X	-15.219	24
17	MP2A	Z	26.361	24
18	MP2A	Mx	.02	24
19	MP1A	X	-5.511	6
20	MP1A	Z	9.545	6
21	MP1A	Mx	.003	6
22	MP1A	X	-5.511	24
23	MP1A	Z	9.545	24
24	MP1A	Mx	.003	24
25	MP4A	X	-5.511	6
26	MP4A	Z	9.545	6

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
27	MP4A	Mx	.003	6
28	MP4A	X	-5.511	24
29	MP4A	Z	9.545	24
30	MP4A	Mx	.003	24
31	MP3A	X	-4.173	60
32	MP3A	Z	7.227	60
33	MP3A	Mx	0	60
34	M32	X	-6.148	48
35	M32	Z	10.648	48
36	M32	Mx	0	48
37	MP2A	X	-6.114	48
38	MP2A	Z	10.59	48
39	MP2A	Mx	.004	48
40	MP2A	X	-1.559	66
41	MP2A	Z	2.701	66
42	MP2A	Mx	.000909	66
43	OVP	X	-7.957	42
44	OVP	Z	13.782	42
45	OVP	Mx	0	42

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-12.015	6
2	MP3A	Z	6.937	6
3	MP3A	Mx	.004	6
4	MP3A	X	-12.015	24
5	MP3A	Z	6.937	24
6	MP3A	Mx	.004	24
7	MP2A	X	-24.269	6
8	MP2A	Z	14.011	6
9	MP2A	Mx	-.008	6
10	MP2A	X	-24.269	24
11	MP2A	Z	14.011	24
12	MP2A	Mx	-.008	24
13	MP2A	X	-24.269	6
14	MP2A	Z	14.011	6
15	MP2A	Mx	.024	6
16	MP2A	X	-24.269	24
17	MP2A	Z	14.011	24
18	MP2A	Mx	.024	24
19	MP1A	X	-10.556	6
20	MP1A	Z	6.095	6
21	MP1A	Mx	.006	6
22	MP1A	X	-10.556	24
23	MP1A	Z	6.095	24
24	MP1A	Mx	.006	24
25	MP4A	X	-10.556	6
26	MP4A	Z	6.095	6
27	MP4A	Mx	.006	6
28	MP4A	X	-10.556	24
29	MP4A	Z	6.095	24
30	MP4A	Mx	.006	24
31	MP3A	X	-6.442	60
32	MP3A	Z	3.719	60
33	MP3A	Mx	.002	60
34	M32	X	-11.804	48
35	M32	Z	6.815	48
36	M32	Mx	0	48

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
37	MP2A	X	-8.109	48
38	MP2A	Z	4.681	48
39	MP2A	Mx	.005	48
40	MP2A	X	-2.343	66
41	MP2A	Z	1.352	66
42	MP2A	Mx	.001	66
43	OVP	X	-15.372	42
44	OVP	Z	8.875	42
45	OVP	Mx	0	42

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-9.23	6
2	MP3A	Z	0	6
3	MP3A	Mx	.005	6
4	MP3A	X	-9.23	24
5	MP3A	Z	0	24
6	MP3A	Mx	.005	24
7	MP2A	X	-23.191	6
8	MP2A	Z	0	6
9	MP2A	Mx	.004	6
10	MP2A	X	-23.191	24
11	MP2A	Z	0	24
12	MP2A	Mx	.004	24
13	MP2A	X	-23.191	6
14	MP2A	Z	0	6
15	MP2A	Mx	.019	6
16	MP2A	X	-23.191	24
17	MP2A	Z	0	24
18	MP2A	Mx	.019	24
19	MP1A	X	-12.773	6
20	MP1A	Z	0	6
21	MP1A	Mx	.007	6
22	MP1A	X	-12.773	24
23	MP1A	Z	0	24
24	MP1A	Mx	.007	24
25	MP4A	X	-12.773	6
26	MP4A	Z	0	6
27	MP4A	Mx	.007	6
28	MP4A	X	-12.773	24
29	MP4A	Z	0	24
30	MP4A	Mx	.007	24
31	MP3A	X	-5.623	60
32	MP3A	Z	0	60
33	MP3A	Mx	.003	60
34	M32	X	-12.92	48
35	M32	Z	0	48
36	M32	Mx	0	48
37	MP2A	X	-7.93	48
38	MP2A	Z	0	48
39	MP2A	Mx	.005	48
40	MP2A	X	-2.498	66
41	MP2A	Z	0	66
42	MP2A	Mx	.001	66
43	OVP	X	-16.773	42
44	OVP	Z	0	42
45	OVP	Mx	0	42

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-5.982	6
2	MP3A	Z	-3.454	6
3	MP3A	Mx	.004	6
4	MP3A	X	-5.982	24
5	MP3A	Z	-3.454	24
6	MP3A	Mx	.004	24
7	MP2A	X	-17.992	6
8	MP2A	Z	-10.388	6
9	MP2A	Mx	.012	6
10	MP2A	X	-17.992	24
11	MP2A	Z	-10.388	24
12	MP2A	Mx	.012	24
13	MP2A	X	-17.992	6
14	MP2A	Z	-10.388	6
15	MP2A	Mx	.012	6
16	MP2A	X	-17.992	24
17	MP2A	Z	-10.388	24
18	MP2A	Mx	.012	24
19	MP1A	X	-10.556	6
20	MP1A	Z	-6.095	6
21	MP1A	Mx	.006	6
22	MP1A	X	-10.556	24
23	MP1A	Z	-6.095	24
24	MP1A	Mx	.006	24
25	MP4A	X	-10.556	6
26	MP4A	Z	-6.095	6
27	MP4A	Mx	.006	6
28	MP4A	X	-10.556	24
29	MP4A	Z	-6.095	24
30	MP4A	Mx	.006	24
31	MP3A	X	-4.084	60
32	MP3A	Z	-2.358	60
33	MP3A	Mx	.003	60
34	M32	X	-9.418	48
35	M32	Z	-5.437	48
36	M32	Mx	0	48
37	MP2A	X	-8.109	48
38	MP2A	Z	-4.681	48
39	MP2A	Mx	.005	48
40	MP2A	X	-2.343	66
41	MP2A	Z	-1.352	66
42	MP2A	Mx	.001	66
43	OVP	X	-12.09	42
44	OVP	Z	-6.98	42
45	OVP	Mx	0	42

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-4.615	6
2	MP3A	Z	-7.993	6
3	MP3A	Mx	.005	6
4	MP3A	X	-4.615	24
5	MP3A	Z	-7.993	24
6	MP3A	Mx	.005	24
7	MP2A	X	-11.596	6
8	MP2A	Z	-20.084	6
9	MP2A	Mx	.019	6
10	MP2A	X	-11.596	24

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
11	MP2A	Z	-20.084	24
12	MP2A	Mx	.019	24
13	MP2A	X	-11.596	6
14	MP2A	Z	-20.084	6
15	MP2A	Mx	.004	6
16	MP2A	X	-11.596	24
17	MP2A	Z	-20.084	24
18	MP2A	Mx	.004	24
19	MP1A	X	-5.511	6
20	MP1A	Z	-9.545	6
21	MP1A	Mx	.003	6
22	MP1A	X	-5.511	24
23	MP1A	Z	-9.545	24
24	MP1A	Mx	.003	24
25	MP4A	X	-5.511	6
26	MP4A	Z	-9.545	6
27	MP4A	Mx	.003	6
28	MP4A	X	-5.511	24
29	MP4A	Z	-9.545	24
30	MP4A	Mx	.003	24
31	MP3A	X	-2.812	60
32	MP3A	Z	-4.87	60
33	MP3A	Mx	.003	60
34	M32	X	-4.77	48
35	M32	Z	-8.262	48
36	M32	Mx	0	48
37	MP2A	X	-6.114	48
38	MP2A	Z	-10.59	48
39	MP2A	Mx	.004	48
40	MP2A	X	-1.559	66
41	MP2A	Z	-2.701	66
42	MP2A	Mx	.000909	66
43	OVP	X	-6.062	42
44	OVP	Z	-10.5	42
45	OVP	Mx	0	42

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	0	6
2	MP3A	Z	-4.368	6
3	MP3A	Mx	.001	6
4	MP3A	X	0	24
5	MP3A	Z	-4.368	24
6	MP3A	Mx	.001	24
7	MP2A	X	0	6
8	MP2A	Z	-9.13	6
9	MP2A	Mx	.008	6
10	MP2A	X	0	24
11	MP2A	Z	-9.13	24
12	MP2A	Mx	.008	24
13	MP2A	X	0	6
14	MP2A	Z	-9.13	6
15	MP2A	Mx	-.003	6
16	MP2A	X	0	24
17	MP2A	Z	-9.13	24
18	MP2A	Mx	-.003	24
19	MP1A	X	0	6
20	MP1A	Z	-3.135	6

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
21	MP1A	Mx	0	6
22	MP1A	X	0	24
23	MP1A	Z	-3.135	24
24	MP1A	Mx	0	24
25	MP4A	X	0	6
26	MP4A	Z	-3.135	6
27	MP4A	Mx	0	6
28	MP4A	X	0	24
29	MP4A	Z	-3.135	24
30	MP4A	Mx	0	24
31	MP3A	X	0	60
32	MP3A	Z	-1.943	60
33	MP3A	Mx	.000567	60
34	M32	X	0	48
35	M32	Z	-2.983	48
36	M32	Mx	0	48
37	MP2A	X	0	48
38	MP2A	Z	-4.1	48
39	MP2A	Mx	0	48
40	MP2A	X	0	66
41	MP2A	Z	-.811	66
42	MP2A	Mx	0	66
43	OVP	X	0	42
44	OVP	Z	-3.903	42
45	OVP	Mx	0	42

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	2.576	6
2	MP3A	Z	-4.462	6
3	MP3A	Mx	0	6
4	MP3A	X	2.576	24
5	MP3A	Z	-4.462	24
6	MP3A	Mx	0	24
7	MP2A	X	4.993	6
8	MP2A	Z	-8.649	6
9	MP2A	Mx	.007	6
10	MP2A	X	4.993	24
11	MP2A	Z	-8.649	24
12	MP2A	Mx	.007	24
13	MP2A	X	4.993	6
14	MP2A	Z	-8.649	6
15	MP2A	Mx	-.007	6
16	MP2A	X	4.993	24
17	MP2A	Z	-8.649	24
18	MP2A	Mx	-.007	24
19	MP1A	X	1.671	6
20	MP1A	Z	-2.894	6
21	MP1A	Mx	-.000975	6
22	MP1A	X	1.671	24
23	MP1A	Z	-2.894	24
24	MP1A	Mx	-.000975	24
25	MP4A	X	1.671	6
26	MP4A	Z	-2.894	6
27	MP4A	Mx	-.000975	6
28	MP4A	X	1.671	24
29	MP4A	Z	-2.894	24
30	MP4A	Mx	-.000975	24

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
31	MP3A	X	1.096	60
32	MP3A	Z	-1.899	60
33	MP3A	Mx	0	60
34	M32	X	1.826	48
35	M32	Z	-3.163	48
36	M32	Mx	0	48
37	MP2A	X	1.815	48
38	MP2A	Z	-3.144	48
39	MP2A	Mx	-.001	48
40	MP2A	X	.374	66
41	MP2A	Z	-.648	66
42	MP2A	Mx	-.000218	66
43	OVP	X	2.424	42
44	OVP	Z	-4.199	42
45	OVP	Mx	0	42

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	3.783	6
2	MP3A	Z	-2.184	6
3	MP3A	Mx	-.001	6
4	MP3A	X	3.783	24
5	MP3A	Z	-2.184	24
6	MP3A	Mx	-.001	24
7	MP2A	X	7.906	6
8	MP2A	Z	-4.565	6
9	MP2A	Mx	.003	6
10	MP2A	X	7.906	24
11	MP2A	Z	-4.565	24
12	MP2A	Mx	.003	24
13	MP2A	X	7.906	6
14	MP2A	Z	-4.565	6
15	MP2A	Mx	-.008	6
16	MP2A	X	7.906	24
17	MP2A	Z	-4.565	24
18	MP2A	Mx	-.008	24
19	MP1A	X	3.253	6
20	MP1A	Z	-1.878	6
21	MP1A	Mx	-.002	6
22	MP1A	X	3.253	24
23	MP1A	Z	-1.878	24
24	MP1A	Mx	-.002	24
25	MP4A	X	3.253	6
26	MP4A	Z	-1.878	6
27	MP4A	Mx	-.002	6
28	MP4A	X	3.253	24
29	MP4A	Z	-1.878	24
30	MP4A	Mx	-.002	24
31	MP3A	X	1.683	60
32	MP3A	Z	-.972	60
33	MP3A	Mx	-.000567	60
34	M32	X	3.542	48
35	M32	Z	-2.045	48
36	M32	Mx	0	48
37	MP2A	X	2.329	48
38	MP2A	Z	-1.345	48
39	MP2A	Mx	-.001	48
40	MP2A	X	.54	66

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
41	MP2A	Z	-.312	66
42	MP2A	Mx	-.000315	66
43	OVP	X	4.734	42
44	OVP	Z	-2.733	42
45	OVP	Mx	0	42

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	2.801	6
2	MP3A	Z	0	6
3	MP3A	Mx	-.001	6
4	MP3A	X	2.801	24
5	MP3A	Z	0	24
6	MP3A	Mx	-.001	24
7	MP2A	X	7.416	6
8	MP2A	Z	0	6
9	MP2A	Mx	-.001	6
10	MP2A	X	7.416	24
11	MP2A	Z	0	24
12	MP2A	Mx	-.001	24
13	MP2A	X	7.416	6
14	MP2A	Z	0	6
15	MP2A	Mx	-.006	6
16	MP2A	X	7.416	24
17	MP2A	Z	0	24
18	MP2A	Mx	-.006	24
19	MP1A	X	3.963	6
20	MP1A	Z	0	6
21	MP1A	Mx	-.002	6
22	MP1A	X	3.963	24
23	MP1A	Z	0	24
24	MP1A	Mx	-.002	24
25	MP4A	X	3.963	6
26	MP4A	Z	0	6
27	MP4A	Mx	-.002	6
28	MP4A	X	3.963	24
29	MP4A	Z	0	24
30	MP4A	Mx	-.002	24
31	MP3A	X	1.446	60
32	MP3A	Z	0	60
33	MP3A	Mx	-.00073	60
34	M32	X	3.857	48
35	M32	Z	0	48
36	M32	Mx	0	48
37	MP2A	X	2.22	48
38	MP2A	Z	0	48
39	MP2A	Mx	-.001	48
40	MP2A	X	.561	66
41	MP2A	Z	0	66
42	MP2A	Mx	-.000327	66
43	OVP	X	5.138	42
44	OVP	Z	0	42
45	OVP	Mx	0	42

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	1.747	6
2	MP3A	Z	1.009	6

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
3	MP3A	Mx	-.001	6
4	MP3A	X	1.747	24
5	MP3A	Z	1.009	24
6	MP3A	Mx	-.001	24
7	MP2A	X	5.68	6
8	MP2A	Z	3.28	6
9	MP2A	Mx	-.004	6
10	MP2A	X	5.68	24
11	MP2A	Z	3.28	24
12	MP2A	Mx	-.004	24
13	MP2A	X	5.68	6
14	MP2A	Z	3.28	6
15	MP2A	Mx	-.004	6
16	MP2A	X	5.68	24
17	MP2A	Z	3.28	24
18	MP2A	Mx	-.004	24
19	MP1A	X	3.253	6
20	MP1A	Z	1.878	6
21	MP1A	Mx	-.002	6
22	MP1A	X	3.253	24
23	MP1A	Z	1.878	24
24	MP1A	Mx	-.002	24
25	MP4A	X	3.253	6
26	MP4A	Z	1.878	6
27	MP4A	Mx	-.002	6
28	MP4A	X	3.253	24
29	MP4A	Z	1.878	24
30	MP4A	Mx	-.002	24
31	MP3A	X	1.036	60
32	MP3A	Z	.598	60
33	MP3A	Mx	-.000698	60
34	M32	X	2.761	48
35	M32	Z	1.594	48
36	M32	Mx	0	48
37	MP2A	X	2.329	48
38	MP2A	Z	1.345	48
39	MP2A	Mx	-.001	48
40	MP2A	X	.54	66
41	MP2A	Z	.312	66
42	MP2A	Mx	-.000315	66
43	OVP	X	3.63	42
44	OVP	Z	2.096	42
45	OVP	Mx	0	42

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	1.4	6
2	MP3A	Z	2.426	6
3	MP3A	Mx	-.001	6
4	MP3A	X	1.4	24
5	MP3A	Z	2.426	24
6	MP3A	Mx	-.001	24
7	MP2A	X	3.708	6
8	MP2A	Z	6.422	6
9	MP2A	Mx	-.006	6
10	MP2A	X	3.708	24
11	MP2A	Z	6.422	24
12	MP2A	Mx	-.006	24

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
13	MP2A	X	3.708	6
14	MP2A	Z	6.422	6
15	MP2A	Mx	-.001	6
16	MP2A	X	3.708	24
17	MP2A	Z	6.422	24
18	MP2A	Mx	-.001	24
19	MP1A	X	1.671	6
20	MP1A	Z	2.894	6
21	MP1A	Mx	-.000975	6
22	MP1A	X	1.671	24
23	MP1A	Z	2.894	24
24	MP1A	Mx	-.000975	24
25	MP4A	X	1.671	6
26	MP4A	Z	2.894	6
27	MP4A	Mx	-.000975	6
28	MP4A	X	1.671	24
29	MP4A	Z	2.894	24
30	MP4A	Mx	-.000975	24
31	MP3A	X	.723	60
32	MP3A	Z	1.252	60
33	MP3A	Mx	-.00073	60
34	M32	X	1.375	48
35	M32	Z	2.382	48
36	M32	Mx	0	48
37	MP2A	X	1.815	48
38	MP2A	Z	3.144	48
39	MP2A	Mx	-.001	48
40	MP2A	X	.374	66
41	MP2A	Z	.648	66
42	MP2A	Mx	-.000218	66
43	OVP	X	1.787	42
44	OVP	Z	3.095	42
45	OVP	Mx	0	42

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	0	6
2	MP3A	Z	4.368	6
3	MP3A	Mx	-.001	6
4	MP3A	X	0	24
5	MP3A	Z	4.368	24
6	MP3A	Mx	-.001	24
7	MP2A	X	0	6
8	MP2A	Z	9.13	6
9	MP2A	Mx	-.008	6
10	MP2A	X	0	24
11	MP2A	Z	9.13	24
12	MP2A	Mx	-.008	24
13	MP2A	X	0	6
14	MP2A	Z	9.13	6
15	MP2A	Mx	.003	6
16	MP2A	X	0	24
17	MP2A	Z	9.13	24
18	MP2A	Mx	.003	24
19	MP1A	X	0	6
20	MP1A	Z	3.135	6
21	MP1A	Mx	0	6
22	MP1A	X	0	24

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	3.135	24
24	MP1A	Mx	0	24
25	MP4A	X	0	6
26	MP4A	Z	3.135	6
27	MP4A	Mx	0	6
28	MP4A	X	0	24
29	MP4A	Z	3.135	24
30	MP4A	Mx	0	24
31	MP3A	X	0	60
32	MP3A	Z	1.943	60
33	MP3A	Mx	-.000567	60
34	M32	X	0	48
35	M32	Z	2.983	48
36	M32	Mx	0	48
37	MP2A	X	0	48
38	MP2A	Z	4.1	48
39	MP2A	Mx	0	48
40	MP2A	X	0	66
41	MP2A	Z	.811	66
42	MP2A	Mx	0	66
43	OVP	X	0	42
44	OVP	Z	3.903	42
45	OVP	Mx	0	42

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-2.576	6
2	MP3A	Z	4.462	6
3	MP3A	Mx	0	6
4	MP3A	X	-2.576	24
5	MP3A	Z	4.462	24
6	MP3A	Mx	0	24
7	MP2A	X	-4.993	6
8	MP2A	Z	8.649	6
9	MP2A	Mx	-.007	6
10	MP2A	X	-4.993	24
11	MP2A	Z	8.649	24
12	MP2A	Mx	-.007	24
13	MP2A	X	-4.993	6
14	MP2A	Z	8.649	6
15	MP2A	Mx	.007	6
16	MP2A	X	-4.993	24
17	MP2A	Z	8.649	24
18	MP2A	Mx	.007	24
19	MP1A	X	-1.671	6
20	MP1A	Z	2.894	6
21	MP1A	Mx	.000975	6
22	MP1A	X	-1.671	24
23	MP1A	Z	2.894	24
24	MP1A	Mx	.000975	24
25	MP4A	X	-1.671	6
26	MP4A	Z	2.894	6
27	MP4A	Mx	.000975	6
28	MP4A	X	-1.671	24
29	MP4A	Z	2.894	24
30	MP4A	Mx	.000975	24
31	MP3A	X	-1.096	60
32	MP3A	Z	1.899	60

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
33	MP3A	Mx	0	60
34	M32	X	-1.826	48
35	M32	Z	3.163	48
36	M32	Mx	0	48
37	MP2A	X	-1.815	48
38	MP2A	Z	3.144	48
39	MP2A	Mx	.001	48
40	MP2A	X	-.374	66
41	MP2A	Z	.648	66
42	MP2A	Mx	.000218	66
43	OVP	X	-2.424	42
44	OVP	Z	4.199	42
45	OVP	Mx	0	42

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-3.783	6
2	MP3A	Z	2.184	6
3	MP3A	Mx	.001	6
4	MP3A	X	-3.783	24
5	MP3A	Z	2.184	24
6	MP3A	Mx	.001	24
7	MP2A	X	-7.906	6
8	MP2A	Z	4.565	6
9	MP2A	Mx	-.003	6
10	MP2A	X	-7.906	24
11	MP2A	Z	4.565	24
12	MP2A	Mx	-.003	24
13	MP2A	X	-7.906	6
14	MP2A	Z	4.565	6
15	MP2A	Mx	.008	6
16	MP2A	X	-7.906	24
17	MP2A	Z	4.565	24
18	MP2A	Mx	.008	24
19	MP1A	X	-3.253	6
20	MP1A	Z	1.878	6
21	MP1A	Mx	.002	6
22	MP1A	X	-3.253	24
23	MP1A	Z	1.878	24
24	MP1A	Mx	.002	24
25	MP4A	X	-3.253	6
26	MP4A	Z	1.878	6
27	MP4A	Mx	.002	6
28	MP4A	X	-3.253	24
29	MP4A	Z	1.878	24
30	MP4A	Mx	.002	24
31	MP3A	X	-1.683	60
32	MP3A	Z	.972	60
33	MP3A	Mx	.000567	60
34	M32	X	-3.542	48
35	M32	Z	2.045	48
36	M32	Mx	0	48
37	MP2A	X	-2.329	48
38	MP2A	Z	1.345	48
39	MP2A	Mx	.001	48
40	MP2A	X	-.54	66
41	MP2A	Z	.312	66
42	MP2A	Mx	.000315	66

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
43	OVP	X	-4.734	42
44	OVP	Z	2.733	42
45	OVP	Mx	0	42

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-2.801	6
2	MP3A	Z	0	6
3	MP3A	Mx	.001	6
4	MP3A	X	-2.801	24
5	MP3A	Z	0	24
6	MP3A	Mx	.001	24
7	MP2A	X	-7.416	6
8	MP2A	Z	0	6
9	MP2A	Mx	.001	6
10	MP2A	X	-7.416	24
11	MP2A	Z	0	24
12	MP2A	Mx	.001	24
13	MP2A	X	-7.416	6
14	MP2A	Z	0	6
15	MP2A	Mx	.006	6
16	MP2A	X	-7.416	24
17	MP2A	Z	0	24
18	MP2A	Mx	.006	24
19	MP1A	X	-3.963	6
20	MP1A	Z	0	6
21	MP1A	Mx	.002	6
22	MP1A	X	-3.963	24
23	MP1A	Z	0	24
24	MP1A	Mx	.002	24
25	MP4A	X	-3.963	6
26	MP4A	Z	0	6
27	MP4A	Mx	.002	6
28	MP4A	X	-3.963	24
29	MP4A	Z	0	24
30	MP4A	Mx	.002	24
31	MP3A	X	-1.446	60
32	MP3A	Z	0	60
33	MP3A	Mx	.00073	60
34	M32	X	-3.857	48
35	M32	Z	0	48
36	M32	Mx	0	48
37	MP2A	X	-2.22	48
38	MP2A	Z	0	48
39	MP2A	Mx	.001	48
40	MP2A	X	-.561	66
41	MP2A	Z	0	66
42	MP2A	Mx	.000327	66
43	OVP	X	-5.138	42
44	OVP	Z	0	42
45	OVP	Mx	0	42

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-1.747	6
2	MP3A	Z	-1.009	6
3	MP3A	Mx	.001	6
4	MP3A	X	-1.747	24

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
5	MP3A	Z	-1.009	24
6	MP3A	Mx	.001	24
7	MP2A	X	-5.68	6
8	MP2A	Z	-3.28	6
9	MP2A	Mx	.004	6
10	MP2A	X	-5.68	24
11	MP2A	Z	-3.28	24
12	MP2A	Mx	.004	24
13	MP2A	X	-5.68	6
14	MP2A	Z	-3.28	6
15	MP2A	Mx	.004	6
16	MP2A	X	-5.68	24
17	MP2A	Z	-3.28	24
18	MP2A	Mx	.004	24
19	MP1A	X	-3.253	6
20	MP1A	Z	-1.878	6
21	MP1A	Mx	.002	6
22	MP1A	X	-3.253	24
23	MP1A	Z	-1.878	24
24	MP1A	Mx	.002	24
25	MP4A	X	-3.253	6
26	MP4A	Z	-1.878	6
27	MP4A	Mx	.002	6
28	MP4A	X	-3.253	24
29	MP4A	Z	-1.878	24
30	MP4A	Mx	.002	24
31	MP3A	X	-1.036	60
32	MP3A	Z	-.598	60
33	MP3A	Mx	.000698	60
34	M32	X	-2.761	48
35	M32	Z	-1.594	48
36	M32	Mx	0	48
37	MP2A	X	-2.329	48
38	MP2A	Z	-1.345	48
39	MP2A	Mx	.001	48
40	MP2A	X	-.54	66
41	MP2A	Z	-.312	66
42	MP2A	Mx	.000315	66
43	OVP	X	-3.63	42
44	OVP	Z	-2.096	42
45	OVP	Mx	0	42

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP3A	X	-1.4	6
2	MP3A	Z	-2.426	6
3	MP3A	Mx	.001	6
4	MP3A	X	-1.4	24
5	MP3A	Z	-2.426	24
6	MP3A	Mx	.001	24
7	MP2A	X	-3.708	6
8	MP2A	Z	-6.422	6
9	MP2A	Mx	.006	6
10	MP2A	X	-3.708	24
11	MP2A	Z	-6.422	24
12	MP2A	Mx	.006	24
13	MP2A	X	-3.708	6
14	MP2A	Z	-6.422	6

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
15	MP2A	Mx	.001	6
16	MP2A	X	-3.708	24
17	MP2A	Z	-6.422	24
18	MP2A	Mx	.001	24
19	MP1A	X	-1.671	6
20	MP1A	Z	-2.894	6
21	MP1A	Mx	.000975	6
22	MP1A	X	-1.671	24
23	MP1A	Z	-2.894	24
24	MP1A	Mx	.000975	24
25	MP4A	X	-1.671	6
26	MP4A	Z	-2.894	6
27	MP4A	Mx	.000975	6
28	MP4A	X	-1.671	24
29	MP4A	Z	-2.894	24
30	MP4A	Mx	.000975	24
31	MP3A	X	-.723	60
32	MP3A	Z	-1.252	60
33	MP3A	Mx	.00073	60
34	M32	X	-1.375	48
35	M32	Z	-2.382	48
36	M32	Mx	0	48
37	MP2A	X	-1.815	48
38	MP2A	Z	-3.144	48
39	MP2A	Mx	.001	48
40	MP2A	X	-.374	66
41	MP2A	Z	-.648	66
42	MP2A	Mx	.000218	66
43	OVP	X	-1.787	42
44	OVP	Z	-3.095	42
45	OVP	Mx	0	42

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M2	Y	-500	%17

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M2	Y	-500	%68

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M2	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M2	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	Y	-5.722	-5.722	0	%100
2	M2	Y	-5.722	-5.722	0	%100
3	MP4A	Y	-5.073	-5.073	0	%100
4	MP3A	Y	-5.073	-5.073	0	%100
5	MP2A	Y	-5.073	-5.073	0	%100

Member Distributed Loads (BLC 40 : Structure Di) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
6	MP1A	Y	-5.073	-5.073	0	%100
7	M32	Y	-5.073	-5.073	0	%100
8	M38	Y	-13.815	-13.815	0	%100
9	M43	Y	-13.815	-13.815	0	%100
10	OVP	Y	-5.788	-5.788	0	%100
11	M40B	Y	-7.934	-7.934	0	%100
12	M39B	Y	-7.442	-7.442	0	%100
13	M40C	Y	-6.683	-6.683	0	%100
14	M42B	Y	-7.442	-7.442	0	%100
15	M43B	Y	-6.683	-6.683	0	%100
16	M37A	Y	-5.073	-5.073	0	%100
17	M40A	Y	-7.442	-7.442	0	%100
18	M43A	Y	-7.442	-7.442	0	%100
19	M45A	Y	-5.073	-5.073	0	%100
20	M45B	Y	-5.073	-5.073	0	%100
21	M41	Y	-7.934	-7.934	0	%100
22	M43C	Y	-6.683	-6.683	0	%100
23	M45C	Y	-6.683	-6.683	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-6.829	-6.829	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-6.829	-6.829	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-7.785	-7.785	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-7.785	-7.785	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-7.785	-7.785	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-7.785	-7.785	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	-7.785	-7.785	0	%100
15	M38	X	0	0	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	0	0	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-9.424	-9.424	0	%100
21	M40B	X	0	0	0	%100
22	M40B	Z	-9.779	-9.779	0	%100
23	M39B	X	0	0	0	%100
24	M39B	Z	-7.568	-7.568	0	%100
25	M40C	X	0	0	0	%100
26	M40C	Z	-5.648	-5.648	0	%100
27	M42B	X	0	0	0	%100
28	M42B	Z	-7.568	-7.568	0	%100
29	M43B	X	0	0	0	%100
30	M43B	Z	-5.648	-5.648	0	%100
31	M37A	X	0	0	0	%100
32	M37A	Z	-7.785	-7.785	0	%100
33	M40A	X	0	0	0	%100
34	M40A	Z	-7.568	-7.568	0	%100
35	M43A	X	0	0	0	%100
36	M43A	Z	-7.568	-7.568	0	%100
37	M45A	X	0	0	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
38	M45A	Z	-4.719	-4.719	0	%100
39	M45B	X	0	0	0	%100
40	M45B	Z	-.693	-.693	0	%100
41	M41	X	0	0	0	%100
42	M41	Z	-9.779	-9.779	0	%100
43	M43C	X	0	0	0	%100
44	M43C	Z	-5.648	-5.648	0	%100
45	M45C	X	0	0	0	%100
46	M45C	Z	-5.648	-5.648	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	2.561	2.561	0	%100
2	M1	Z	-4.436	-4.436	0	%100
3	M2	X	2.561	2.561	0	%100
4	M2	Z	-4.436	-4.436	0	%100
5	MP4A	X	3.893	3.893	0	%100
6	MP4A	Z	-6.742	-6.742	0	%100
7	MP3A	X	3.893	3.893	0	%100
8	MP3A	Z	-6.742	-6.742	0	%100
9	MP2A	X	3.893	3.893	0	%100
10	MP2A	Z	-6.742	-6.742	0	%100
11	MP1A	X	3.893	3.893	0	%100
12	MP1A	Z	-6.742	-6.742	0	%100
13	M32	X	3.893	3.893	0	%100
14	M32	Z	-6.742	-6.742	0	%100
15	M38	X	2.458	2.458	0	%100
16	M38	Z	-4.258	-4.258	0	%100
17	M43	X	2.458	2.458	0	%100
18	M43	Z	-4.258	-4.258	0	%100
19	OVP	X	4.712	4.712	0	%100
20	OVP	Z	-8.161	-8.161	0	%100
21	M40B	X	5.418	5.418	0	%100
22	M40B	Z	-9.384	-9.384	0	%100
23	M39B	X	6.336	6.336	0	%100
24	M39B	Z	-10.974	-10.974	0	%100
25	M40C	X	4.728	4.728	0	%100
26	M40C	Z	-8.19	-8.19	0	%100
27	M42B	X	6.336	6.336	0	%100
28	M42B	Z	-10.974	-10.974	0	%100
29	M43B	X	4.728	4.728	0	%100
30	M43B	Z	-8.19	-8.19	0	%100
31	M37A	X	3.893	3.893	0	%100
32	M37A	Z	-6.742	-6.742	0	%100
33	M40A	X	.726	.726	0	%100
34	M40A	Z	-1.258	-1.258	0	%100
35	M43A	X	.726	.726	0	%100
36	M43A	Z	-1.258	-1.258	0	%100
37	M45A	X	3.798	3.798	0	%100
38	M45A	Z	-6.579	-6.579	0	%100
39	M45B	X	.186	.186	0	%100
40	M45B	Z	-.323	-.323	0	%100
41	M41	X	5.418	5.418	0	%100
42	M41	Z	-9.384	-9.384	0	%100
43	M43C	X	4.728	4.728	0	%100
44	M43C	Z	-8.19	-8.19	0	%100
45	M45C	X	4.728	4.728	0	%100
46	M45C	Z	-8.19	-8.19	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	1.479	1.479	0	%100
2	M1	Z	-.854	-.854	0	%100
3	M2	X	1.479	1.479	0	%100
4	M2	Z	-.854	-.854	0	%100
5	MP4A	X	6.742	6.742	0	%100
6	MP4A	Z	-3.893	-3.893	0	%100
7	MP3A	X	6.742	6.742	0	%100
8	MP3A	Z	-3.893	-3.893	0	%100
9	MP2A	X	6.742	6.742	0	%100
10	MP2A	Z	-3.893	-3.893	0	%100
11	MP1A	X	6.742	6.742	0	%100
12	MP1A	Z	-3.893	-3.893	0	%100
13	M32	X	6.742	6.742	0	%100
14	M32	Z	-3.893	-3.893	0	%100
15	M38	X	12.774	12.774	0	%100
16	M38	Z	-7.375	-7.375	0	%100
17	M43	X	12.774	12.774	0	%100
18	M43	Z	-7.375	-7.375	0	%100
19	OVP	X	8.161	8.161	0	%100
20	OVP	Z	-4.712	-4.712	0	%100
21	M40B	X	9.202	9.202	0	%100
22	M40B	Z	-5.313	-5.313	0	%100
23	M39B	X	10.097	10.097	0	%100
24	M39B	Z	-5.829	-5.829	0	%100
25	M40C	X	7.535	7.535	0	%100
26	M40C	Z	-4.351	-4.351	0	%100
27	M42B	X	10.097	10.097	0	%100
28	M42B	Z	-5.829	-5.829	0	%100
29	M43B	X	7.535	7.535	0	%100
30	M43B	Z	-4.351	-4.351	0	%100
31	M37A	X	6.742	6.742	0	%100
32	M37A	Z	-3.893	-3.893	0	%100
33	M40A	X	.381	.381	0	%100
34	M40A	Z	-.22	-.22	0	%100
35	M43A	X	.381	.381	0	%100
36	M43A	Z	-.22	-.22	0	%100
37	M45A	X	5.878	5.878	0	%100
38	M45A	Z	-3.393	-3.393	0	%100
39	M45B	X	3.093	3.093	0	%100
40	M45B	Z	-1.786	-1.786	0	%100
41	M41	X	9.202	9.202	0	%100
42	M41	Z	-5.313	-5.313	0	%100
43	M43C	X	7.535	7.535	0	%100
44	M43C	Z	-4.351	-4.351	0	%100
45	M45C	X	7.535	7.535	0	%100
46	M45C	Z	-4.351	-4.351	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	7.785	7.785	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	7.785	7.785	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	7.785	7.785	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
10	MP2A	Z	0	0	0	%100
11	MP1A	X	7.785	7.785	0	%100
12	MP1A	Z	0	0	0	%100
13	M32	X	7.785	7.785	0	%100
14	M32	Z	0	0	0	%100
15	M38	X	19.668	19.668	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	19.668	19.668	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	9.424	9.424	0	%100
20	OVP	Z	0	0	0	%100
21	M40B	X	9.36	9.36	0	%100
22	M40B	Z	0	0	0	%100
23	M39B	X	5.543	5.543	0	%100
24	M39B	Z	0	0	0	%100
25	M40C	X	4.137	4.137	0	%100
26	M40C	Z	0	0	0	%100
27	M42B	X	5.543	5.543	0	%100
28	M42B	Z	0	0	0	%100
29	M43B	X	4.137	4.137	0	%100
30	M43B	Z	0	0	0	%100
31	M37A	X	7.785	7.785	0	%100
32	M37A	Z	0	0	0	%100
33	M40A	X	5.543	5.543	0	%100
34	M40A	Z	0	0	0	%100
35	M43A	X	5.543	5.543	0	%100
36	M43A	Z	0	0	0	%100
37	M45A	X	3.099	3.099	0	%100
38	M45A	Z	0	0	0	%100
39	M45B	X	7.092	7.092	0	%100
40	M45B	Z	0	0	0	%100
41	M41	X	9.36	9.36	0	%100
42	M41	Z	0	0	0	%100
43	M43C	X	4.137	4.137	0	%100
44	M43C	Z	0	0	0	%100
45	M45C	X	4.137	4.137	0	%100
46	M45C	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	1.479	1.479	0	%100
2	M1	Z	.854	.854	0	%100
3	M2	X	1.479	1.479	0	%100
4	M2	Z	.854	.854	0	%100
5	MP4A	X	6.742	6.742	0	%100
6	MP4A	Z	3.893	3.893	0	%100
7	MP3A	X	6.742	6.742	0	%100
8	MP3A	Z	3.893	3.893	0	%100
9	MP2A	X	6.742	6.742	0	%100
10	MP2A	Z	3.893	3.893	0	%100
11	MP1A	X	6.742	6.742	0	%100
12	MP1A	Z	3.893	3.893	0	%100
13	M32	X	6.742	6.742	0	%100
14	M32	Z	3.893	3.893	0	%100
15	M38	X	12.774	12.774	0	%100
16	M38	Z	7.375	7.375	0	%100
17	M43	X	12.774	12.774	0	%100
18	M43	Z	7.375	7.375	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
19	OVP	X	8.161	8.161	0	%100
20	OVP	Z	4.712	4.712	0	%100
21	M40B	X	7.191	7.191	0	%100
22	M40B	Z	4.152	4.152	0	%100
23	M39B	X	.381	.381	0	%100
24	M39B	Z	.22	.22	0	%100
25	M40C	X	.284	.284	0	%100
26	M40C	Z	.164	.164	0	%100
27	M42B	X	.381	.381	0	%100
28	M42B	Z	.22	.22	0	%100
29	M43B	X	.284	.284	0	%100
30	M43B	Z	.164	.164	0	%100
31	M37A	X	6.742	6.742	0	%100
32	M37A	Z	3.893	3.893	0	%100
33	M40A	X	10.097	10.097	0	%100
34	M40A	Z	5.829	5.829	0	%100
35	M43A	X	10.097	10.097	0	%100
36	M43A	Z	5.829	5.829	0	%100
37	M45A	X	.192	.192	0	%100
38	M45A	Z	.111	.111	0	%100
39	M45B	X	6.419	6.419	0	%100
40	M45B	Z	3.706	3.706	0	%100
41	M41	X	7.191	7.191	0	%100
42	M41	Z	4.152	4.152	0	%100
43	M43C	X	.284	.284	0	%100
44	M43C	Z	.164	.164	0	%100
45	M45C	X	.284	.284	0	%100
46	M45C	Z	.164	.164	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	2.561	2.561	0	%100
2	M1	Z	4.436	4.436	0	%100
3	M2	X	2.561	2.561	0	%100
4	M2	Z	4.436	4.436	0	%100
5	MP4A	X	3.893	3.893	0	%100
6	MP4A	Z	6.742	6.742	0	%100
7	MP3A	X	3.893	3.893	0	%100
8	MP3A	Z	6.742	6.742	0	%100
9	MP2A	X	3.893	3.893	0	%100
10	MP2A	Z	6.742	6.742	0	%100
11	MP1A	X	3.893	3.893	0	%100
12	MP1A	Z	6.742	6.742	0	%100
13	M32	X	3.893	3.893	0	%100
14	M32	Z	6.742	6.742	0	%100
15	M38	X	2.458	2.458	0	%100
16	M38	Z	4.258	4.258	0	%100
17	M43	X	2.458	2.458	0	%100
18	M43	Z	4.258	4.258	0	%100
19	OVP	X	4.712	4.712	0	%100
20	OVP	Z	8.161	8.161	0	%100
21	M40B	X	4.257	4.257	0	%100
22	M40B	Z	7.373	7.373	0	%100
23	M39B	X	.726	.726	0	%100
24	M39B	Z	1.258	1.258	0	%100
25	M40C	X	.542	.542	0	%100
26	M40C	Z	.939	.939	0	%100
27	M42B	X	.726	.726	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
28	M42B	Z	1.258	1.258	0	%100
29	M43B	X	.542	.542	0	%100
30	M43B	Z	.939	.939	0	%100
31	M37A	X	3.893	3.893	0	%100
32	M37A	Z	6.742	6.742	0	%100
33	M40A	X	6.336	6.336	0	%100
34	M40A	Z	10.974	10.974	0	%100
35	M43A	X	6.336	6.336	0	%100
36	M43A	Z	10.974	10.974	0	%100
37	M45A	X	.515	.515	0	%100
38	M45A	Z	.893	.893	0	%100
39	M45B	X	2.107	2.107	0	%100
40	M45B	Z	3.649	3.649	0	%100
41	M41	X	4.257	4.257	0	%100
42	M41	Z	7.373	7.373	0	%100
43	M43C	X	.542	.542	0	%100
44	M43C	Z	.939	.939	0	%100
45	M45C	X	.542	.542	0	%100
46	M45C	Z	.939	.939	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	6.829	6.829	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	6.829	6.829	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	7.785	7.785	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	7.785	7.785	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	7.785	7.785	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	7.785	7.785	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	7.785	7.785	0	%100
15	M38	X	0	0	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	0	0	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	9.424	9.424	0	%100
21	M40B	X	0	0	0	%100
22	M40B	Z	9.779	9.779	0	%100
23	M39B	X	0	0	0	%100
24	M39B	Z	7.568	7.568	0	%100
25	M40C	X	0	0	0	%100
26	M40C	Z	5.648	5.648	0	%100
27	M42B	X	0	0	0	%100
28	M42B	Z	7.568	7.568	0	%100
29	M43B	X	0	0	0	%100
30	M43B	Z	5.648	5.648	0	%100
31	M37A	X	0	0	0	%100
32	M37A	Z	7.785	7.785	0	%100
33	M40A	X	0	0	0	%100
34	M40A	Z	7.568	7.568	0	%100
35	M43A	X	0	0	0	%100
36	M43A	Z	7.568	7.568	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
37	M45A	X	0	0	0	%100
38	M45A	Z	4.719	4.719	0	%100
39	M45B	X	0	0	0	%100
40	M45B	Z	.693	.693	0	%100
41	M41	X	0	0	0	%100
42	M41	Z	9.779	9.779	0	%100
43	M43C	X	0	0	0	%100
44	M43C	Z	5.648	5.648	0	%100
45	M45C	X	0	0	0	%100
46	M45C	Z	5.648	5.648	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-2.561	-2.561	0	%100
2	M1	Z	4.436	4.436	0	%100
3	M2	X	-2.561	-2.561	0	%100
4	M2	Z	4.436	4.436	0	%100
5	MP4A	X	-3.893	-3.893	0	%100
6	MP4A	Z	6.742	6.742	0	%100
7	MP3A	X	-3.893	-3.893	0	%100
8	MP3A	Z	6.742	6.742	0	%100
9	MP2A	X	-3.893	-3.893	0	%100
10	MP2A	Z	6.742	6.742	0	%100
11	MP1A	X	-3.893	-3.893	0	%100
12	MP1A	Z	6.742	6.742	0	%100
13	M32	X	-3.893	-3.893	0	%100
14	M32	Z	6.742	6.742	0	%100
15	M38	X	-2.458	-2.458	0	%100
16	M38	Z	4.258	4.258	0	%100
17	M43	X	-2.458	-2.458	0	%100
18	M43	Z	4.258	4.258	0	%100
19	OVP	X	-4.712	-4.712	0	%100
20	OVP	Z	8.161	8.161	0	%100
21	M40B	X	-5.418	-5.418	0	%100
22	M40B	Z	9.384	9.384	0	%100
23	M39B	X	-6.336	-6.336	0	%100
24	M39B	Z	10.974	10.974	0	%100
25	M40C	X	-4.728	-4.728	0	%100
26	M40C	Z	8.19	8.19	0	%100
27	M42B	X	-6.336	-6.336	0	%100
28	M42B	Z	10.974	10.974	0	%100
29	M43B	X	-4.728	-4.728	0	%100
30	M43B	Z	8.19	8.19	0	%100
31	M37A	X	-3.893	-3.893	0	%100
32	M37A	Z	6.742	6.742	0	%100
33	M40A	X	-.726	-.726	0	%100
34	M40A	Z	1.258	1.258	0	%100
35	M43A	X	-.726	-.726	0	%100
36	M43A	Z	1.258	1.258	0	%100
37	M45A	X	-3.798	-3.798	0	%100
38	M45A	Z	6.579	6.579	0	%100
39	M45B	X	-.186	-.186	0	%100
40	M45B	Z	.323	.323	0	%100
41	M41	X	-5.418	-5.418	0	%100
42	M41	Z	9.384	9.384	0	%100
43	M43C	X	-4.728	-4.728	0	%100
44	M43C	Z	8.19	8.19	0	%100
45	M45C	X	-4.728	-4.728	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
46	M45C	Z	8.19	8.19	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-1.479	-1.479	0	%100
2	M1	Z	.854	.854	0	%100
3	M2	X	-1.479	-1.479	0	%100
4	M2	Z	.854	.854	0	%100
5	MP4A	X	-6.742	-6.742	0	%100
6	MP4A	Z	3.893	3.893	0	%100
7	MP3A	X	-6.742	-6.742	0	%100
8	MP3A	Z	3.893	3.893	0	%100
9	MP2A	X	-6.742	-6.742	0	%100
10	MP2A	Z	3.893	3.893	0	%100
11	MP1A	X	-6.742	-6.742	0	%100
12	MP1A	Z	3.893	3.893	0	%100
13	M32	X	-6.742	-6.742	0	%100
14	M32	Z	3.893	3.893	0	%100
15	M38	X	-12.774	-12.774	0	%100
16	M38	Z	7.375	7.375	0	%100
17	M43	X	-12.774	-12.774	0	%100
18	M43	Z	7.375	7.375	0	%100
19	OVP	X	-8.161	-8.161	0	%100
20	OVP	Z	4.712	4.712	0	%100
21	M40B	X	-9.202	-9.202	0	%100
22	M40B	Z	5.313	5.313	0	%100
23	M39B	X	-10.097	-10.097	0	%100
24	M39B	Z	5.829	5.829	0	%100
25	M40C	X	-7.535	-7.535	0	%100
26	M40C	Z	4.351	4.351	0	%100
27	M42B	X	-10.097	-10.097	0	%100
28	M42B	Z	5.829	5.829	0	%100
29	M43B	X	-7.535	-7.535	0	%100
30	M43B	Z	4.351	4.351	0	%100
31	M37A	X	-6.742	-6.742	0	%100
32	M37A	Z	3.893	3.893	0	%100
33	M40A	X	-.381	-.381	0	%100
34	M40A	Z	.22	.22	0	%100
35	M43A	X	-.381	-.381	0	%100
36	M43A	Z	.22	.22	0	%100
37	M45A	X	-5.878	-5.878	0	%100
38	M45A	Z	3.393	3.393	0	%100
39	M45B	X	-3.093	-3.093	0	%100
40	M45B	Z	1.786	1.786	0	%100
41	M41	X	-9.202	-9.202	0	%100
42	M41	Z	5.313	5.313	0	%100
43	M43C	X	-7.535	-7.535	0	%100
44	M43C	Z	4.351	4.351	0	%100
45	M45C	X	-7.535	-7.535	0	%100
46	M45C	Z	4.351	4.351	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-7.785	-7.785	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-7.785	-7.785	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-7.785	-7.785	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-7.785	-7.785	0	%100
12	MP1A	Z	0	0	0	%100
13	M32	X	-7.785	-7.785	0	%100
14	M32	Z	0	0	0	%100
15	M38	X	-19.668	-19.668	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	-19.668	-19.668	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	-9.424	-9.424	0	%100
20	OVP	Z	0	0	0	%100
21	M40B	X	-9.36	-9.36	0	%100
22	M40B	Z	0	0	0	%100
23	M39B	X	-5.543	-5.543	0	%100
24	M39B	Z	0	0	0	%100
25	M40C	X	-4.137	-4.137	0	%100
26	M40C	Z	0	0	0	%100
27	M42B	X	-5.543	-5.543	0	%100
28	M42B	Z	0	0	0	%100
29	M43B	X	-4.137	-4.137	0	%100
30	M43B	Z	0	0	0	%100
31	M37A	X	-7.785	-7.785	0	%100
32	M37A	Z	0	0	0	%100
33	M40A	X	-5.543	-5.543	0	%100
34	M40A	Z	0	0	0	%100
35	M43A	X	-5.543	-5.543	0	%100
36	M43A	Z	0	0	0	%100
37	M45A	X	-3.099	-3.099	0	%100
38	M45A	Z	0	0	0	%100
39	M45B	X	-7.092	-7.092	0	%100
40	M45B	Z	0	0	0	%100
41	M41	X	-9.36	-9.36	0	%100
42	M41	Z	0	0	0	%100
43	M43C	X	-4.137	-4.137	0	%100
44	M43C	Z	0	0	0	%100
45	M45C	X	-4.137	-4.137	0	%100
46	M45C	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-1.479	-1.479	0	%100
2	M1	Z	-.854	-.854	0	%100
3	M2	X	-1.479	-1.479	0	%100
4	M2	Z	-.854	-.854	0	%100
5	MP4A	X	-6.742	-6.742	0	%100
6	MP4A	Z	-3.893	-3.893	0	%100
7	MP3A	X	-6.742	-6.742	0	%100
8	MP3A	Z	-3.893	-3.893	0	%100
9	MP2A	X	-6.742	-6.742	0	%100
10	MP2A	Z	-3.893	-3.893	0	%100
11	MP1A	X	-6.742	-6.742	0	%100
12	MP1A	Z	-3.893	-3.893	0	%100
13	M32	X	-6.742	-6.742	0	%100
14	M32	Z	-3.893	-3.893	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
15	M38	X	-12.774	-12.774	0	%100
16	M38	Z	-7.375	-7.375	0	%100
17	M43	X	-12.774	-12.774	0	%100
18	M43	Z	-7.375	-7.375	0	%100
19	OVP	X	-8.161	-8.161	0	%100
20	OVP	Z	-4.712	-4.712	0	%100
21	M40B	X	-7.191	-7.191	0	%100
22	M40B	Z	-4.152	-4.152	0	%100
23	M39B	X	-.381	-.381	0	%100
24	M39B	Z	-.22	-.22	0	%100
25	M40C	X	-.284	-.284	0	%100
26	M40C	Z	-.164	-.164	0	%100
27	M42B	X	-.381	-.381	0	%100
28	M42B	Z	-.22	-.22	0	%100
29	M43B	X	-.284	-.284	0	%100
30	M43B	Z	-.164	-.164	0	%100
31	M37A	X	-6.742	-6.742	0	%100
32	M37A	Z	-3.893	-3.893	0	%100
33	M40A	X	-10.097	-10.097	0	%100
34	M40A	Z	-5.829	-5.829	0	%100
35	M43A	X	-10.097	-10.097	0	%100
36	M43A	Z	-5.829	-5.829	0	%100
37	M45A	X	-.192	-.192	0	%100
38	M45A	Z	-.111	-.111	0	%100
39	M45B	X	-6.419	-6.419	0	%100
40	M45B	Z	-3.706	-3.706	0	%100
41	M41	X	-7.191	-7.191	0	%100
42	M41	Z	-4.152	-4.152	0	%100
43	M43C	X	-.284	-.284	0	%100
44	M43C	Z	-.164	-.164	0	%100
45	M45C	X	-.284	-.284	0	%100
46	M45C	Z	-.164	-.164	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-2.561	-2.561	0	%100
2	M1	Z	-4.436	-4.436	0	%100
3	M2	X	-2.561	-2.561	0	%100
4	M2	Z	-4.436	-4.436	0	%100
5	MP4A	X	-3.893	-3.893	0	%100
6	MP4A	Z	-6.742	-6.742	0	%100
7	MP3A	X	-3.893	-3.893	0	%100
8	MP3A	Z	-6.742	-6.742	0	%100
9	MP2A	X	-3.893	-3.893	0	%100
10	MP2A	Z	-6.742	-6.742	0	%100
11	MP1A	X	-3.893	-3.893	0	%100
12	MP1A	Z	-6.742	-6.742	0	%100
13	M32	X	-3.893	-3.893	0	%100
14	M32	Z	-6.742	-6.742	0	%100
15	M38	X	-2.458	-2.458	0	%100
16	M38	Z	-4.258	-4.258	0	%100
17	M43	X	-2.458	-2.458	0	%100
18	M43	Z	-4.258	-4.258	0	%100
19	OVP	X	-4.712	-4.712	0	%100
20	OVP	Z	-8.161	-8.161	0	%100
21	M40B	X	-4.257	-4.257	0	%100
22	M40B	Z	-7.373	-7.373	0	%100
23	M39B	X	-.726	-.726	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
24	M39B	Z	-1.258	-1.258	0	%100
25	M40C	X	-.542	-.542	0	%100
26	M40C	Z	-.939	-.939	0	%100
27	M42B	X	-.726	-.726	0	%100
28	M42B	Z	-1.258	-1.258	0	%100
29	M43B	X	-.542	-.542	0	%100
30	M43B	Z	-.939	-.939	0	%100
31	M37A	X	-3.893	-3.893	0	%100
32	M37A	Z	-6.742	-6.742	0	%100
33	M40A	X	-6.336	-6.336	0	%100
34	M40A	Z	-10.974	-10.974	0	%100
35	M43A	X	-6.336	-6.336	0	%100
36	M43A	Z	-10.974	-10.974	0	%100
37	M45A	X	-.515	-.515	0	%100
38	M45A	Z	-.893	-.893	0	%100
39	M45B	X	-2.107	-2.107	0	%100
40	M45B	Z	-3.649	-3.649	0	%100
41	M41	X	-4.257	-4.257	0	%100
42	M41	Z	-7.373	-7.373	0	%100
43	M43C	X	-.542	-.542	0	%100
44	M43C	Z	-.939	-.939	0	%100
45	M45C	X	-.542	-.542	0	%100
46	M45C	Z	-.939	-.939	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-2.695	-2.695	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-2.695	-2.695	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-2.873	-2.873	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-2.873	-2.873	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-2.873	-2.873	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-2.873	-2.873	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	-2.873	-2.873	0	%100
15	M38	X	0	0	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	0	0	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-3.177	-3.177	0	%100
21	M40B	X	0	0	0	%100
22	M40B	Z	-2.877	-2.877	0	%100
23	M39B	X	0	0	0	%100
24	M39B	Z	-1.886	-1.886	0	%100
25	M40C	X	0	0	0	%100
26	M40C	Z	-1.873	-1.873	0	%100
27	M42B	X	0	0	0	%100
28	M42B	Z	-1.886	-1.886	0	%100
29	M43B	X	0	0	0	%100
30	M43B	Z	-1.873	-1.873	0	%100
31	M37A	X	0	0	0	%100
32	M37A	Z	-2.873	-2.873	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
33	M40A	X	0	0	0	%100
34	M40A	Z	-1.886	-1.886	0	%100
35	M43A	X	0	0	0	%100
36	M43A	Z	-1.886	-1.886	0	%100
37	M45A	X	0	0	0	%100
38	M45A	Z	-1.741	-1.741	0	%100
39	M45B	X	0	0	0	%100
40	M45B	Z	-.256	-.256	0	%100
41	M41	X	0	0	0	%100
42	M41	Z	-2.877	-2.877	0	%100
43	M43C	X	0	0	0	%100
44	M43C	Z	-1.873	-1.873	0	%100
45	M45C	X	0	0	0	%100
46	M45C	Z	-1.873	-1.873	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	1.011	1.011	0	%100
2	M1	Z	-1.75	-1.75	0	%100
3	M2	X	1.011	1.011	0	%100
4	M2	Z	-1.75	-1.75	0	%100
5	MP4A	X	1.436	1.436	0	%100
6	MP4A	Z	-2.488	-2.488	0	%100
7	MP3A	X	1.436	1.436	0	%100
8	MP3A	Z	-2.488	-2.488	0	%100
9	MP2A	X	1.436	1.436	0	%100
10	MP2A	Z	-2.488	-2.488	0	%100
11	MP1A	X	1.436	1.436	0	%100
12	MP1A	Z	-2.488	-2.488	0	%100
13	M32	X	1.436	1.436	0	%100
14	M32	Z	-2.488	-2.488	0	%100
15	M38	X	.569	.569	0	%100
16	M38	Z	-.986	-.986	0	%100
17	M43	X	.569	.569	0	%100
18	M43	Z	-.986	-.986	0	%100
19	OVP	X	1.589	1.589	0	%100
20	OVP	Z	-2.752	-2.752	0	%100
21	M40B	X	1.705	1.705	0	%100
22	M40B	Z	-2.953	-2.953	0	%100
23	M39B	X	1.579	1.579	0	%100
24	M39B	Z	-2.735	-2.735	0	%100
25	M40C	X	1.568	1.568	0	%100
26	M40C	Z	-2.715	-2.715	0	%100
27	M42B	X	1.579	1.579	0	%100
28	M42B	Z	-2.735	-2.735	0	%100
29	M43B	X	1.568	1.568	0	%100
30	M43B	Z	-2.715	-2.715	0	%100
31	M37A	X	1.436	1.436	0	%100
32	M37A	Z	-2.488	-2.488	0	%100
33	M40A	X	.181	.181	0	%100
34	M40A	Z	-.314	-.314	0	%100
35	M43A	X	.181	.181	0	%100
36	M43A	Z	-.314	-.314	0	%100
37	M45A	X	1.402	1.402	0	%100
38	M45A	Z	-2.428	-2.428	0	%100
39	M45B	X	.069	.069	0	%100
40	M45B	Z	-.119	-.119	0	%100
41	M41	X	1.705	1.705	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
42	M41	Z	-2.953	-2.953	0	%100
43	M43C	X	1.568	1.568	0	%100
44	M43C	Z	-2.715	-2.715	0	%100
45	M45C	X	1.568	1.568	0	%100
46	M45C	Z	-2.715	-2.715	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	.584	.584	0	%100
2	M1	Z	-.337	-.337	0	%100
3	M2	X	.584	.584	0	%100
4	M2	Z	-.337	-.337	0	%100
5	MP4A	X	2.488	2.488	0	%100
6	MP4A	Z	-1.436	-1.436	0	%100
7	MP3A	X	2.488	2.488	0	%100
8	MP3A	Z	-1.436	-1.436	0	%100
9	MP2A	X	2.488	2.488	0	%100
10	MP2A	Z	-1.436	-1.436	0	%100
11	MP1A	X	2.488	2.488	0	%100
12	MP1A	Z	-1.436	-1.436	0	%100
13	M32	X	2.488	2.488	0	%100
14	M32	Z	-1.436	-1.436	0	%100
15	M38	X	2.959	2.959	0	%100
16	M38	Z	-1.708	-1.708	0	%100
17	M43	X	2.959	2.959	0	%100
18	M43	Z	-1.708	-1.708	0	%100
19	OVP	X	2.752	2.752	0	%100
20	OVP	Z	-1.589	-1.589	0	%100
21	M40B	X	2.862	2.862	0	%100
22	M40B	Z	-1.652	-1.652	0	%100
23	M39B	X	2.517	2.517	0	%100
24	M39B	Z	-1.453	-1.453	0	%100
25	M40C	X	2.498	2.498	0	%100
26	M40C	Z	-1.442	-1.442	0	%100
27	M42B	X	2.517	2.517	0	%100
28	M42B	Z	-1.453	-1.453	0	%100
29	M43B	X	2.498	2.498	0	%100
30	M43B	Z	-1.442	-1.442	0	%100
31	M37A	X	2.488	2.488	0	%100
32	M37A	Z	-1.436	-1.436	0	%100
33	M40A	X	.095	.095	0	%100
34	M40A	Z	-.055	-.055	0	%100
35	M43A	X	.095	.095	0	%100
36	M43A	Z	-.055	-.055	0	%100
37	M45A	X	2.169	2.169	0	%100
38	M45A	Z	-1.252	-1.252	0	%100
39	M45B	X	1.141	1.141	0	%100
40	M45B	Z	-.659	-.659	0	%100
41	M41	X	2.862	2.862	0	%100
42	M41	Z	-1.652	-1.652	0	%100
43	M43C	X	2.498	2.498	0	%100
44	M43C	Z	-1.442	-1.442	0	%100
45	M45C	X	2.498	2.498	0	%100
46	M45C	Z	-1.442	-1.442	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	2.873	2.873	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	2.873	2.873	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	2.873	2.873	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	2.873	2.873	0	%100
12	MP1A	Z	0	0	0	%100
13	M32	X	2.873	2.873	0	%100
14	M32	Z	0	0	0	%100
15	M38	X	4.555	4.555	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	4.555	4.555	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	3.177	3.177	0	%100
20	OVP	Z	0	0	0	%100
21	M40B	X	2.665	2.665	0	%100
22	M40B	Z	0	0	0	%100
23	M39B	X	1.382	1.382	0	%100
24	M39B	Z	0	0	0	%100
25	M40C	X	1.372	1.372	0	%100
26	M40C	Z	0	0	0	%100
27	M42B	X	1.382	1.382	0	%100
28	M42B	Z	0	0	0	%100
29	M43B	X	1.372	1.372	0	%100
30	M43B	Z	0	0	0	%100
31	M37A	X	2.873	2.873	0	%100
32	M37A	Z	0	0	0	%100
33	M40A	X	1.382	1.382	0	%100
34	M40A	Z	0	0	0	%100
35	M43A	X	1.382	1.382	0	%100
36	M43A	Z	0	0	0	%100
37	M45A	X	1.144	1.144	0	%100
38	M45A	Z	0	0	0	%100
39	M45B	X	2.617	2.617	0	%100
40	M45B	Z	0	0	0	%100
41	M41	X	2.665	2.665	0	%100
42	M41	Z	0	0	0	%100
43	M43C	X	1.372	1.372	0	%100
44	M43C	Z	0	0	0	%100
45	M45C	X	1.372	1.372	0	%100
46	M45C	Z	0	0	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	.584	.584	0	%100
2	M1	Z	.337	.337	0	%100
3	M2	X	.584	.584	0	%100
4	M2	Z	.337	.337	0	%100
5	MP4A	X	2.488	2.488	0	%100
6	MP4A	Z	1.436	1.436	0	%100
7	MP3A	X	2.488	2.488	0	%100
8	MP3A	Z	1.436	1.436	0	%100
9	MP2A	X	2.488	2.488	0	%100
10	MP2A	Z	1.436	1.436	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
11	MP1A	X	2.488	2.488	0	%100
12	MP1A	Z	1.436	1.436	0	%100
13	M32	X	2.488	2.488	0	%100
14	M32	Z	1.436	1.436	0	%100
15	M38	X	2.959	2.959	0	%100
16	M38	Z	1.708	1.708	0	%100
17	M43	X	2.959	2.959	0	%100
18	M43	Z	1.708	1.708	0	%100
19	OVP	X	2.752	2.752	0	%100
20	OVP	Z	1.589	1.589	0	%100
21	M40B	X	1.846	1.846	0	%100
22	M40B	Z	1.066	1.066	0	%100
23	M39B	X	.095	.095	0	%100
24	M39B	Z	.055	.055	0	%100
25	M40C	X	.094	.094	0	%100
26	M40C	Z	.054	.054	0	%100
27	M42B	X	.095	.095	0	%100
28	M42B	Z	.055	.055	0	%100
29	M43B	X	.094	.094	0	%100
30	M43B	Z	.054	.054	0	%100
31	M37A	X	2.488	2.488	0	%100
32	M37A	Z	1.436	1.436	0	%100
33	M40A	X	2.517	2.517	0	%100
34	M40A	Z	1.453	1.453	0	%100
35	M43A	X	2.517	2.517	0	%100
36	M43A	Z	1.453	1.453	0	%100
37	M45A	X	.071	.071	0	%100
38	M45A	Z	.041	.041	0	%100
39	M45B	X	2.369	2.369	0	%100
40	M45B	Z	1.368	1.368	0	%100
41	M41	X	1.846	1.846	0	%100
42	M41	Z	1.066	1.066	0	%100
43	M43C	X	.094	.094	0	%100
44	M43C	Z	.054	.054	0	%100
45	M45C	X	.094	.094	0	%100
46	M45C	Z	.054	.054	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	1.011	1.011	0	%100
2	M1	Z	1.75	1.75	0	%100
3	M2	X	1.011	1.011	0	%100
4	M2	Z	1.75	1.75	0	%100
5	MP4A	X	1.436	1.436	0	%100
6	MP4A	Z	2.488	2.488	0	%100
7	MP3A	X	1.436	1.436	0	%100
8	MP3A	Z	2.488	2.488	0	%100
9	MP2A	X	1.436	1.436	0	%100
10	MP2A	Z	2.488	2.488	0	%100
11	MP1A	X	1.436	1.436	0	%100
12	MP1A	Z	2.488	2.488	0	%100
13	M32	X	1.436	1.436	0	%100
14	M32	Z	2.488	2.488	0	%100
15	M38	X	.569	.569	0	%100
16	M38	Z	.986	.986	0	%100
17	M43	X	.569	.569	0	%100
18	M43	Z	.986	.986	0	%100
19	OVP	X	1.589	1.589	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
20	OVP	Z	2.752	2.752	0	%100
21	M40B	X	1.119	1.119	0	%100
22	M40B	Z	1.938	1.938	0	%100
23	M39B	X	.181	.181	0	%100
24	M39B	Z	.314	.314	0	%100
25	M40C	X	.18	.18	0	%100
26	M40C	Z	.311	.311	0	%100
27	M42B	X	.181	.181	0	%100
28	M42B	Z	.314	.314	0	%100
29	M43B	X	.18	.18	0	%100
30	M43B	Z	.311	.311	0	%100
31	M37A	X	1.436	1.436	0	%100
32	M37A	Z	2.488	2.488	0	%100
33	M40A	X	1.579	1.579	0	%100
34	M40A	Z	2.735	2.735	0	%100
35	M43A	X	1.579	1.579	0	%100
36	M43A	Z	2.735	2.735	0	%100
37	M45A	X	.19	.19	0	%100
38	M45A	Z	.329	.329	0	%100
39	M45B	X	.777	.777	0	%100
40	M45B	Z	1.346	1.346	0	%100
41	M41	X	1.119	1.119	0	%100
42	M41	Z	1.938	1.938	0	%100
43	M43C	X	.18	.18	0	%100
44	M43C	Z	.311	.311	0	%100
45	M45C	X	.18	.18	0	%100
46	M45C	Z	.311	.311	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	2.695	2.695	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	2.695	2.695	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	2.873	2.873	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	2.873	2.873	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	2.873	2.873	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	2.873	2.873	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	2.873	2.873	0	%100
15	M38	X	0	0	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	0	0	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	3.177	3.177	0	%100
21	M40B	X	0	0	0	%100
22	M40B	Z	2.877	2.877	0	%100
23	M39B	X	0	0	0	%100
24	M39B	Z	1.886	1.886	0	%100
25	M40C	X	0	0	0	%100
26	M40C	Z	1.873	1.873	0	%100
27	M42B	X	0	0	0	%100
28	M42B	Z	1.886	1.886	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
29	M43B	X	0	0	0	%100
30	M43B	Z	1.873	1.873	0	%100
31	M37A	X	0	0	0	%100
32	M37A	Z	2.873	2.873	0	%100
33	M40A	X	0	0	0	%100
34	M40A	Z	1.886	1.886	0	%100
35	M43A	X	0	0	0	%100
36	M43A	Z	1.886	1.886	0	%100
37	M45A	X	0	0	0	%100
38	M45A	Z	1.741	1.741	0	%100
39	M45B	X	0	0	0	%100
40	M45B	Z	.256	.256	0	%100
41	M41	X	0	0	0	%100
42	M41	Z	2.877	2.877	0	%100
43	M43C	X	0	0	0	%100
44	M43C	Z	1.873	1.873	0	%100
45	M45C	X	0	0	0	%100
46	M45C	Z	1.873	1.873	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-1.011	-1.011	0	%100
2	M1	Z	1.75	1.75	0	%100
3	M2	X	-1.011	-1.011	0	%100
4	M2	Z	1.75	1.75	0	%100
5	MP4A	X	-1.436	-1.436	0	%100
6	MP4A	Z	2.488	2.488	0	%100
7	MP3A	X	-1.436	-1.436	0	%100
8	MP3A	Z	2.488	2.488	0	%100
9	MP2A	X	-1.436	-1.436	0	%100
10	MP2A	Z	2.488	2.488	0	%100
11	MP1A	X	-1.436	-1.436	0	%100
12	MP1A	Z	2.488	2.488	0	%100
13	M32	X	-1.436	-1.436	0	%100
14	M32	Z	2.488	2.488	0	%100
15	M38	X	-.569	-.569	0	%100
16	M38	Z	.986	.986	0	%100
17	M43	X	-.569	-.569	0	%100
18	M43	Z	.986	.986	0	%100
19	OVP	X	-1.589	-1.589	0	%100
20	OVP	Z	2.752	2.752	0	%100
21	M40B	X	-1.705	-1.705	0	%100
22	M40B	Z	2.953	2.953	0	%100
23	M39B	X	-1.579	-1.579	0	%100
24	M39B	Z	2.735	2.735	0	%100
25	M40C	X	-1.568	-1.568	0	%100
26	M40C	Z	2.715	2.715	0	%100
27	M42B	X	-1.579	-1.579	0	%100
28	M42B	Z	2.735	2.735	0	%100
29	M43B	X	-1.568	-1.568	0	%100
30	M43B	Z	2.715	2.715	0	%100
31	M37A	X	-1.436	-1.436	0	%100
32	M37A	Z	2.488	2.488	0	%100
33	M40A	X	-.181	-.181	0	%100
34	M40A	Z	.314	.314	0	%100
35	M43A	X	-.181	-.181	0	%100
36	M43A	Z	.314	.314	0	%100
37	M45A	X	-1.402	-1.402	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
38	M45A	Z	2.428	2.428	0	%100
39	M45B	X	-.069	-.069	0	%100
40	M45B	Z	.119	.119	0	%100
41	M41	X	-1.705	-1.705	0	%100
42	M41	Z	2.953	2.953	0	%100
43	M43C	X	-1.568	-1.568	0	%100
44	M43C	Z	2.715	2.715	0	%100
45	M45C	X	-1.568	-1.568	0	%100
46	M45C	Z	2.715	2.715	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.584	-.584	0	%100
2	M1	Z	.337	.337	0	%100
3	M2	X	-.584	-.584	0	%100
4	M2	Z	.337	.337	0	%100
5	MP4A	X	-2.488	-2.488	0	%100
6	MP4A	Z	1.436	1.436	0	%100
7	MP3A	X	-2.488	-2.488	0	%100
8	MP3A	Z	1.436	1.436	0	%100
9	MP2A	X	-2.488	-2.488	0	%100
10	MP2A	Z	1.436	1.436	0	%100
11	MP1A	X	-2.488	-2.488	0	%100
12	MP1A	Z	1.436	1.436	0	%100
13	M32	X	-2.488	-2.488	0	%100
14	M32	Z	1.436	1.436	0	%100
15	M38	X	-2.959	-2.959	0	%100
16	M38	Z	1.708	1.708	0	%100
17	M43	X	-2.959	-2.959	0	%100
18	M43	Z	1.708	1.708	0	%100
19	OVP	X	-2.752	-2.752	0	%100
20	OVP	Z	1.589	1.589	0	%100
21	M40B	X	-2.862	-2.862	0	%100
22	M40B	Z	1.652	1.652	0	%100
23	M39B	X	-2.517	-2.517	0	%100
24	M39B	Z	1.453	1.453	0	%100
25	M40C	X	-2.498	-2.498	0	%100
26	M40C	Z	1.442	1.442	0	%100
27	M42B	X	-2.517	-2.517	0	%100
28	M42B	Z	1.453	1.453	0	%100
29	M43B	X	-2.498	-2.498	0	%100
30	M43B	Z	1.442	1.442	0	%100
31	M37A	X	-2.488	-2.488	0	%100
32	M37A	Z	1.436	1.436	0	%100
33	M40A	X	-.095	-.095	0	%100
34	M40A	Z	.055	.055	0	%100
35	M43A	X	-.095	-.095	0	%100
36	M43A	Z	.055	.055	0	%100
37	M45A	X	-2.169	-2.169	0	%100
38	M45A	Z	1.252	1.252	0	%100
39	M45B	X	-1.141	-1.141	0	%100
40	M45B	Z	.659	.659	0	%100
41	M41	X	-2.862	-2.862	0	%100
42	M41	Z	1.652	1.652	0	%100
43	M43C	X	-2.498	-2.498	0	%100
44	M43C	Z	1.442	1.442	0	%100
45	M45C	X	-2.498	-2.498	0	%100
46	M45C	Z	1.442	1.442	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-2.873	-2.873	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-2.873	-2.873	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-2.873	-2.873	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-2.873	-2.873	0	%100
12	MP1A	Z	0	0	0	%100
13	M32	X	-2.873	-2.873	0	%100
14	M32	Z	0	0	0	%100
15	M38	X	-4.555	-4.555	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	-4.555	-4.555	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	-3.177	-3.177	0	%100
20	OVP	Z	0	0	0	%100
21	M40B	X	-2.665	-2.665	0	%100
22	M40B	Z	0	0	0	%100
23	M39B	X	-1.382	-1.382	0	%100
24	M39B	Z	0	0	0	%100
25	M40C	X	-1.372	-1.372	0	%100
26	M40C	Z	0	0	0	%100
27	M42B	X	-1.382	-1.382	0	%100
28	M42B	Z	0	0	0	%100
29	M43B	X	-1.372	-1.372	0	%100
30	M43B	Z	0	0	0	%100
31	M37A	X	-2.873	-2.873	0	%100
32	M37A	Z	0	0	0	%100
33	M40A	X	-1.382	-1.382	0	%100
34	M40A	Z	0	0	0	%100
35	M43A	X	-1.382	-1.382	0	%100
36	M43A	Z	0	0	0	%100
37	M45A	X	-1.144	-1.144	0	%100
38	M45A	Z	0	0	0	%100
39	M45B	X	-2.617	-2.617	0	%100
40	M45B	Z	0	0	0	%100
41	M41	X	-2.665	-2.665	0	%100
42	M41	Z	0	0	0	%100
43	M43C	X	-1.372	-1.372	0	%100
44	M43C	Z	0	0	0	%100
45	M45C	X	-1.372	-1.372	0	%100
46	M45C	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.584	-.584	0	%100
2	M1	Z	-.337	-.337	0	%100
3	M2	X	-.584	-.584	0	%100
4	M2	Z	-.337	-.337	0	%100
5	MP4A	X	-2.488	-2.488	0	%100
6	MP4A	Z	-1.436	-1.436	0	%100
7	MP3A	X	-2.488	-2.488	0	%100
8	MP3A	Z	-1.436	-1.436	0	%100
9	MP2A	X	-2.488	-2.488	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
10	MP2A	Z	-1.436	-1.436	0	%100
11	MP1A	X	-2.488	-2.488	0	%100
12	MP1A	Z	-1.436	-1.436	0	%100
13	M32	X	-2.488	-2.488	0	%100
14	M32	Z	-1.436	-1.436	0	%100
15	M38	X	-2.959	-2.959	0	%100
16	M38	Z	-1.708	-1.708	0	%100
17	M43	X	-2.959	-2.959	0	%100
18	M43	Z	-1.708	-1.708	0	%100
19	OVP	X	-2.752	-2.752	0	%100
20	OVP	Z	-1.589	-1.589	0	%100
21	M40B	X	-1.846	-1.846	0	%100
22	M40B	Z	-1.066	-1.066	0	%100
23	M39B	X	-.095	-.095	0	%100
24	M39B	Z	-.055	-.055	0	%100
25	M40C	X	-.094	-.094	0	%100
26	M40C	Z	-.054	-.054	0	%100
27	M42B	X	-.095	-.095	0	%100
28	M42B	Z	-.055	-.055	0	%100
29	M43B	X	-.094	-.094	0	%100
30	M43B	Z	-.054	-.054	0	%100
31	M37A	X	-2.488	-2.488	0	%100
32	M37A	Z	-1.436	-1.436	0	%100
33	M40A	X	-2.517	-2.517	0	%100
34	M40A	Z	-1.453	-1.453	0	%100
35	M43A	X	-2.517	-2.517	0	%100
36	M43A	Z	-1.453	-1.453	0	%100
37	M45A	X	-.071	-.071	0	%100
38	M45A	Z	-.041	-.041	0	%100
39	M45B	X	-2.369	-2.369	0	%100
40	M45B	Z	-1.368	-1.368	0	%100
41	M41	X	-1.846	-1.846	0	%100
42	M41	Z	-1.066	-1.066	0	%100
43	M43C	X	-.094	-.094	0	%100
44	M43C	Z	-.054	-.054	0	%100
45	M45C	X	-.094	-.094	0	%100
46	M45C	Z	-.054	-.054	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-1.011	-1.011	0	%100
2	M1	Z	-1.75	-1.75	0	%100
3	M2	X	-1.011	-1.011	0	%100
4	M2	Z	-1.75	-1.75	0	%100
5	MP4A	X	-1.436	-1.436	0	%100
6	MP4A	Z	-2.488	-2.488	0	%100
7	MP3A	X	-1.436	-1.436	0	%100
8	MP3A	Z	-2.488	-2.488	0	%100
9	MP2A	X	-1.436	-1.436	0	%100
10	MP2A	Z	-2.488	-2.488	0	%100
11	MP1A	X	-1.436	-1.436	0	%100
12	MP1A	Z	-2.488	-2.488	0	%100
13	M32	X	-1.436	-1.436	0	%100
14	M32	Z	-2.488	-2.488	0	%100
15	M38	X	-.569	-.569	0	%100
16	M38	Z	-.986	-.986	0	%100
17	M43	X	-.569	-.569	0	%100
18	M43	Z	-.986	-.986	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
19	OVP	X	-1.589	-1.589	0	%100
20	OVP	Z	-2.752	-2.752	0	%100
21	M40B	X	-1.119	-1.119	0	%100
22	M40B	Z	-1.938	-1.938	0	%100
23	M39B	X	-.181	-.181	0	%100
24	M39B	Z	-.314	-.314	0	%100
25	M40C	X	-.18	-.18	0	%100
26	M40C	Z	-.311	-.311	0	%100
27	M42B	X	-.181	-.181	0	%100
28	M42B	Z	-.314	-.314	0	%100
29	M43B	X	-.18	-.18	0	%100
30	M43B	Z	-.311	-.311	0	%100
31	M37A	X	-1.436	-1.436	0	%100
32	M37A	Z	-2.488	-2.488	0	%100
33	M40A	X	-1.579	-1.579	0	%100
34	M40A	Z	-2.735	-2.735	0	%100
35	M43A	X	-1.579	-1.579	0	%100
36	M43A	Z	-2.735	-2.735	0	%100
37	M45A	X	-.19	-.19	0	%100
38	M45A	Z	-.329	-.329	0	%100
39	M45B	X	-.777	-.777	0	%100
40	M45B	Z	-1.346	-1.346	0	%100
41	M41	X	-1.119	-1.119	0	%100
42	M41	Z	-1.938	-1.938	0	%100
43	M43C	X	-.18	-.18	0	%100
44	M43C	Z	-.311	-.311	0	%100
45	M45C	X	-.18	-.18	0	%100
46	M45C	Z	-.311	-.311	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.457	-.457	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.457	-.457	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-.521	-.521	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.521	-.521	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-.521	-.521	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-.521	-.521	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	-.521	-.521	0	%100
15	M38	X	0	0	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	0	0	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-.63	-.63	0	%100
21	M40B	X	0	0	0	%100
22	M40B	Z	-.654	-.654	0	%100
23	M39B	X	0	0	0	%100
24	M39B	Z	-.506	-.506	0	%100
25	M40C	X	0	0	0	%100
26	M40C	Z	-.378	-.378	0	%100
27	M42B	X	0	0	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
28	M42B	Z	-.506	-.506	0	%100
29	M43B	X	0	0	0	%100
30	M43B	Z	-.378	-.378	0	%100
31	M37A	X	0	0	0	%100
32	M37A	Z	-.521	-.521	0	%100
33	M40A	X	0	0	0	%100
34	M40A	Z	-.506	-.506	0	%100
35	M43A	X	0	0	0	%100
36	M43A	Z	-.506	-.506	0	%100
37	M45A	X	0	0	0	%100
38	M45A	Z	-.316	-.316	0	%100
39	M45B	X	0	0	0	%100
40	M45B	Z	-.046	-.046	0	%100
41	M41	X	0	0	0	%100
42	M41	Z	-.654	-.654	0	%100
43	M43C	X	0	0	0	%100
44	M43C	Z	-.378	-.378	0	%100
45	M45C	X	0	0	0	%100
46	M45C	Z	-.378	-.378	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	.171	.171	0	%100
2	M1	Z	-.297	-.297	0	%100
3	M2	X	.171	.171	0	%100
4	M2	Z	-.297	-.297	0	%100
5	MP4A	X	.26	.26	0	%100
6	MP4A	Z	-.451	-.451	0	%100
7	MP3A	X	.26	.26	0	%100
8	MP3A	Z	-.451	-.451	0	%100
9	MP2A	X	.26	.26	0	%100
10	MP2A	Z	-.451	-.451	0	%100
11	MP1A	X	.26	.26	0	%100
12	MP1A	Z	-.451	-.451	0	%100
13	M32	X	.26	.26	0	%100
14	M32	Z	-.451	-.451	0	%100
15	M38	X	.164	.164	0	%100
16	M38	Z	-.285	-.285	0	%100
17	M43	X	.164	.164	0	%100
18	M43	Z	-.285	-.285	0	%100
19	OVP	X	.315	.315	0	%100
20	OVP	Z	-.546	-.546	0	%100
21	M40B	X	.362	.362	0	%100
22	M40B	Z	-.628	-.628	0	%100
23	M39B	X	.424	.424	0	%100
24	M39B	Z	-.734	-.734	0	%100
25	M40C	X	.316	.316	0	%100
26	M40C	Z	-.548	-.548	0	%100
27	M42B	X	.424	.424	0	%100
28	M42B	Z	-.734	-.734	0	%100
29	M43B	X	.316	.316	0	%100
30	M43B	Z	-.548	-.548	0	%100
31	M37A	X	.26	.26	0	%100
32	M37A	Z	-.451	-.451	0	%100
33	M40A	X	.049	.049	0	%100
34	M40A	Z	-.084	-.084	0	%100
35	M43A	X	.049	.049	0	%100
36	M43A	Z	-.084	-.084	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
37	M45A	X	.254	.254	0	%100
38	M45A	Z	-.44	-.44	0	%100
39	M45B	X	.012	.012	0	%100
40	M45B	Z	-.022	-.022	0	%100
41	M41	X	.362	.362	0	%100
42	M41	Z	-.628	-.628	0	%100
43	M43C	X	.316	.316	0	%100
44	M43C	Z	-.548	-.548	0	%100
45	M45C	X	.316	.316	0	%100
46	M45C	Z	-.548	-.548	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	.099	.099	0	%100
2	M1	Z	-.057	-.057	0	%100
3	M2	X	.099	.099	0	%100
4	M2	Z	-.057	-.057	0	%100
5	MP4A	X	.451	.451	0	%100
6	MP4A	Z	-.26	-.26	0	%100
7	MP3A	X	.451	.451	0	%100
8	MP3A	Z	-.26	-.26	0	%100
9	MP2A	X	.451	.451	0	%100
10	MP2A	Z	-.26	-.26	0	%100
11	MP1A	X	.451	.451	0	%100
12	MP1A	Z	-.26	-.26	0	%100
13	M32	X	.451	.451	0	%100
14	M32	Z	-.26	-.26	0	%100
15	M38	X	.854	.854	0	%100
16	M38	Z	-.493	-.493	0	%100
17	M43	X	.854	.854	0	%100
18	M43	Z	-.493	-.493	0	%100
19	OVP	X	.546	.546	0	%100
20	OVP	Z	-.315	-.315	0	%100
21	M40B	X	.615	.615	0	%100
22	M40B	Z	-.355	-.355	0	%100
23	M39B	X	.675	.675	0	%100
24	M39B	Z	-.39	-.39	0	%100
25	M40C	X	.504	.504	0	%100
26	M40C	Z	-.291	-.291	0	%100
27	M42B	X	.675	.675	0	%100
28	M42B	Z	-.39	-.39	0	%100
29	M43B	X	.504	.504	0	%100
30	M43B	Z	-.291	-.291	0	%100
31	M37A	X	.451	.451	0	%100
32	M37A	Z	-.26	-.26	0	%100
33	M40A	X	.025	.025	0	%100
34	M40A	Z	-.015	-.015	0	%100
35	M43A	X	.025	.025	0	%100
36	M43A	Z	-.015	-.015	0	%100
37	M45A	X	.393	.393	0	%100
38	M45A	Z	-.227	-.227	0	%100
39	M45B	X	.207	.207	0	%100
40	M45B	Z	-.119	-.119	0	%100
41	M41	X	.615	.615	0	%100
42	M41	Z	-.355	-.355	0	%100
43	M43C	X	.504	.504	0	%100
44	M43C	Z	-.291	-.291	0	%100
45	M45C	X	.504	.504	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
46	M45C	Z	-.291	-.291	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	.521	.521	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	.521	.521	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	.521	.521	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	.521	.521	0	%100
12	MP1A	Z	0	0	0	%100
13	M32	X	.521	.521	0	%100
14	M32	Z	0	0	0	%100
15	M38	X	1.315	1.315	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	1.315	1.315	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	.63	.63	0	%100
20	OVP	Z	0	0	0	%100
21	M40B	X	.626	.626	0	%100
22	M40B	Z	0	0	0	%100
23	M39B	X	.371	.371	0	%100
24	M39B	Z	0	0	0	%100
25	M40C	X	.277	.277	0	%100
26	M40C	Z	0	0	0	%100
27	M42B	X	.371	.371	0	%100
28	M42B	Z	0	0	0	%100
29	M43B	X	.277	.277	0	%100
30	M43B	Z	0	0	0	%100
31	M37A	X	.521	.521	0	%100
32	M37A	Z	0	0	0	%100
33	M40A	X	.371	.371	0	%100
34	M40A	Z	0	0	0	%100
35	M43A	X	.371	.371	0	%100
36	M43A	Z	0	0	0	%100
37	M45A	X	.207	.207	0	%100
38	M45A	Z	0	0	0	%100
39	M45B	X	.474	.474	0	%100
40	M45B	Z	0	0	0	%100
41	M41	X	.626	.626	0	%100
42	M41	Z	0	0	0	%100
43	M43C	X	.277	.277	0	%100
44	M43C	Z	0	0	0	%100
45	M45C	X	.277	.277	0	%100
46	M45C	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	.099	.099	0	%100
2	M1	Z	.057	.057	0	%100
3	M2	X	.099	.099	0	%100
4	M2	Z	.057	.057	0	%100
5	MP4A	X	.451	.451	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
6	MP4A	Z	.26	.26	0	%100
7	MP3A	X	.451	.451	0	%100
8	MP3A	Z	.26	.26	0	%100
9	MP2A	X	.451	.451	0	%100
10	MP2A	Z	.26	.26	0	%100
11	MP1A	X	.451	.451	0	%100
12	MP1A	Z	.26	.26	0	%100
13	M32	X	.451	.451	0	%100
14	M32	Z	.26	.26	0	%100
15	M38	X	.854	.854	0	%100
16	M38	Z	.493	.493	0	%100
17	M43	X	.854	.854	0	%100
18	M43	Z	.493	.493	0	%100
19	OVP	X	.546	.546	0	%100
20	OVP	Z	.315	.315	0	%100
21	M40B	X	.481	.481	0	%100
22	M40B	Z	.278	.278	0	%100
23	M39B	X	.025	.025	0	%100
24	M39B	Z	.015	.015	0	%100
25	M40C	X	.019	.019	0	%100
26	M40C	Z	.011	.011	0	%100
27	M42B	X	.025	.025	0	%100
28	M42B	Z	.015	.015	0	%100
29	M43B	X	.019	.019	0	%100
30	M43B	Z	.011	.011	0	%100
31	M37A	X	.451	.451	0	%100
32	M37A	Z	.26	.26	0	%100
33	M40A	X	.675	.675	0	%100
34	M40A	Z	.39	.39	0	%100
35	M43A	X	.675	.675	0	%100
36	M43A	Z	.39	.39	0	%100
37	M45A	X	.013	.013	0	%100
38	M45A	Z	.007	.007	0	%100
39	M45B	X	.429	.429	0	%100
40	M45B	Z	.248	.248	0	%100
41	M41	X	.481	.481	0	%100
42	M41	Z	.278	.278	0	%100
43	M43C	X	.019	.019	0	%100
44	M43C	Z	.011	.011	0	%100
45	M45C	X	.019	.019	0	%100
46	M45C	Z	.011	.011	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	.171	.171	0	%100
2	M1	Z	.297	.297	0	%100
3	M2	X	.171	.171	0	%100
4	M2	Z	.297	.297	0	%100
5	MP4A	X	.26	.26	0	%100
6	MP4A	Z	.451	.451	0	%100
7	MP3A	X	.26	.26	0	%100
8	MP3A	Z	.451	.451	0	%100
9	MP2A	X	.26	.26	0	%100
10	MP2A	Z	.451	.451	0	%100
11	MP1A	X	.26	.26	0	%100
12	MP1A	Z	.451	.451	0	%100
13	M32	X	.26	.26	0	%100
14	M32	Z	.451	.451	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
15	M38	X	.164	.164	0	%100
16	M38	Z	.285	.285	0	%100
17	M43	X	.164	.164	0	%100
18	M43	Z	.285	.285	0	%100
19	OVP	X	.315	.315	0	%100
20	OVP	Z	.546	.546	0	%100
21	M40B	X	.285	.285	0	%100
22	M40B	Z	.493	.493	0	%100
23	M39B	X	.049	.049	0	%100
24	M39B	Z	.084	.084	0	%100
25	M40C	X	.036	.036	0	%100
26	M40C	Z	.063	.063	0	%100
27	M42B	X	.049	.049	0	%100
28	M42B	Z	.084	.084	0	%100
29	M43B	X	.036	.036	0	%100
30	M43B	Z	.063	.063	0	%100
31	M37A	X	.26	.26	0	%100
32	M37A	Z	.451	.451	0	%100
33	M40A	X	.424	.424	0	%100
34	M40A	Z	.734	.734	0	%100
35	M43A	X	.424	.424	0	%100
36	M43A	Z	.734	.734	0	%100
37	M45A	X	.034	.034	0	%100
38	M45A	Z	.06	.06	0	%100
39	M45B	X	.141	.141	0	%100
40	M45B	Z	.244	.244	0	%100
41	M41	X	.285	.285	0	%100
42	M41	Z	.493	.493	0	%100
43	M43C	X	.036	.036	0	%100
44	M43C	Z	.063	.063	0	%100
45	M45C	X	.036	.036	0	%100
46	M45C	Z	.063	.063	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	.457	.457	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.457	.457	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	.521	.521	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.521	.521	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	.521	.521	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	.521	.521	0	%100
13	M32	X	0	0	0	%100
14	M32	Z	.521	.521	0	%100
15	M38	X	0	0	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	0	0	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	.63	.63	0	%100
21	M40B	X	0	0	0	%100
22	M40B	Z	.654	.654	0	%100
23	M39B	X	0	0	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
24	M39B	Z	.506	.506	0	%100
25	M40C	X	0	0	0	%100
26	M40C	Z	.378	.378	0	%100
27	M42B	X	0	0	0	%100
28	M42B	Z	.506	.506	0	%100
29	M43B	X	0	0	0	%100
30	M43B	Z	.378	.378	0	%100
31	M37A	X	0	0	0	%100
32	M37A	Z	.521	.521	0	%100
33	M40A	X	0	0	0	%100
34	M40A	Z	.506	.506	0	%100
35	M43A	X	0	0	0	%100
36	M43A	Z	.506	.506	0	%100
37	M45A	X	0	0	0	%100
38	M45A	Z	.316	.316	0	%100
39	M45B	X	0	0	0	%100
40	M45B	Z	.046	.046	0	%100
41	M41	X	0	0	0	%100
42	M41	Z	.654	.654	0	%100
43	M43C	X	0	0	0	%100
44	M43C	Z	.378	.378	0	%100
45	M45C	X	0	0	0	%100
46	M45C	Z	.378	.378	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.171	-.171	0	%100
2	M1	Z	.297	.297	0	%100
3	M2	X	-.171	-.171	0	%100
4	M2	Z	.297	.297	0	%100
5	MP4A	X	-.26	-.26	0	%100
6	MP4A	Z	.451	.451	0	%100
7	MP3A	X	-.26	-.26	0	%100
8	MP3A	Z	.451	.451	0	%100
9	MP2A	X	-.26	-.26	0	%100
10	MP2A	Z	.451	.451	0	%100
11	MP1A	X	-.26	-.26	0	%100
12	MP1A	Z	.451	.451	0	%100
13	M32	X	-.26	-.26	0	%100
14	M32	Z	.451	.451	0	%100
15	M38	X	-.164	-.164	0	%100
16	M38	Z	.285	.285	0	%100
17	M43	X	-.164	-.164	0	%100
18	M43	Z	.285	.285	0	%100
19	OVP	X	-.315	-.315	0	%100
20	OVP	Z	.546	.546	0	%100
21	M40B	X	-.362	-.362	0	%100
22	M40B	Z	.628	.628	0	%100
23	M39B	X	-.424	-.424	0	%100
24	M39B	Z	.734	.734	0	%100
25	M40C	X	-.316	-.316	0	%100
26	M40C	Z	.548	.548	0	%100
27	M42B	X	-.424	-.424	0	%100
28	M42B	Z	.734	.734	0	%100
29	M43B	X	-.316	-.316	0	%100
30	M43B	Z	.548	.548	0	%100
31	M37A	X	-.26	-.26	0	%100
32	M37A	Z	.451	.451	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
33	M40A	X	-.049	-.049	0	%100
34	M40A	Z	.084	.084	0	%100
35	M43A	X	-.049	-.049	0	%100
36	M43A	Z	.084	.084	0	%100
37	M45A	X	-.254	-.254	0	%100
38	M45A	Z	.44	.44	0	%100
39	M45B	X	-.012	-.012	0	%100
40	M45B	Z	.022	.022	0	%100
41	M41	X	-.362	-.362	0	%100
42	M41	Z	.628	.628	0	%100
43	M43C	X	-.316	-.316	0	%100
44	M43C	Z	.548	.548	0	%100
45	M45C	X	-.316	-.316	0	%100
46	M45C	Z	.548	.548	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.099	-.099	0	%100
2	M1	Z	.057	.057	0	%100
3	M2	X	-.099	-.099	0	%100
4	M2	Z	.057	.057	0	%100
5	MP4A	X	-.451	-.451	0	%100
6	MP4A	Z	.26	.26	0	%100
7	MP3A	X	-.451	-.451	0	%100
8	MP3A	Z	.26	.26	0	%100
9	MP2A	X	-.451	-.451	0	%100
10	MP2A	Z	.26	.26	0	%100
11	MP1A	X	-.451	-.451	0	%100
12	MP1A	Z	.26	.26	0	%100
13	M32	X	-.451	-.451	0	%100
14	M32	Z	.26	.26	0	%100
15	M38	X	-.854	-.854	0	%100
16	M38	Z	.493	.493	0	%100
17	M43	X	-.854	-.854	0	%100
18	M43	Z	.493	.493	0	%100
19	OVP	X	-.546	-.546	0	%100
20	OVP	Z	.315	.315	0	%100
21	M40B	X	-.615	-.615	0	%100
22	M40B	Z	.355	.355	0	%100
23	M39B	X	-.675	-.675	0	%100
24	M39B	Z	.39	.39	0	%100
25	M40C	X	-.504	-.504	0	%100
26	M40C	Z	.291	.291	0	%100
27	M42B	X	-.675	-.675	0	%100
28	M42B	Z	.39	.39	0	%100
29	M43B	X	-.504	-.504	0	%100
30	M43B	Z	.291	.291	0	%100
31	M37A	X	-.451	-.451	0	%100
32	M37A	Z	.26	.26	0	%100
33	M40A	X	-.025	-.025	0	%100
34	M40A	Z	.015	.015	0	%100
35	M43A	X	-.025	-.025	0	%100
36	M43A	Z	.015	.015	0	%100
37	M45A	X	-.393	-.393	0	%100
38	M45A	Z	.227	.227	0	%100
39	M45B	X	-.207	-.207	0	%100
40	M45B	Z	.119	.119	0	%100
41	M41	X	-.615	-.615	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
42	M41	Z	.355	.355	0	%100
43	M43C	X	-.504	-.504	0	%100
44	M43C	Z	.291	.291	0	%100
45	M45C	X	-.504	-.504	0	%100
46	M45C	Z	.291	.291	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-.521	-.521	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-.521	-.521	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-.521	-.521	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-.521	-.521	0	%100
12	MP1A	Z	0	0	0	%100
13	M32	X	-.521	-.521	0	%100
14	M32	Z	0	0	0	%100
15	M38	X	-1.315	-1.315	0	%100
16	M38	Z	0	0	0	%100
17	M43	X	-1.315	-1.315	0	%100
18	M43	Z	0	0	0	%100
19	OVP	X	-.63	-.63	0	%100
20	OVP	Z	0	0	0	%100
21	M40B	X	-.626	-.626	0	%100
22	M40B	Z	0	0	0	%100
23	M39B	X	-.371	-.371	0	%100
24	M39B	Z	0	0	0	%100
25	M40C	X	-.277	-.277	0	%100
26	M40C	Z	0	0	0	%100
27	M42B	X	-.371	-.371	0	%100
28	M42B	Z	0	0	0	%100
29	M43B	X	-.277	-.277	0	%100
30	M43B	Z	0	0	0	%100
31	M37A	X	-.521	-.521	0	%100
32	M37A	Z	0	0	0	%100
33	M40A	X	-.371	-.371	0	%100
34	M40A	Z	0	0	0	%100
35	M43A	X	-.371	-.371	0	%100
36	M43A	Z	0	0	0	%100
37	M45A	X	-.207	-.207	0	%100
38	M45A	Z	0	0	0	%100
39	M45B	X	-.474	-.474	0	%100
40	M45B	Z	0	0	0	%100
41	M41	X	-.626	-.626	0	%100
42	M41	Z	0	0	0	%100
43	M43C	X	-.277	-.277	0	%100
44	M43C	Z	0	0	0	%100
45	M45C	X	-.277	-.277	0	%100
46	M45C	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.099	-.099	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
2	M1	Z	-.057	-.057	0	%100
3	M2	X	-.099	-.099	0	%100
4	M2	Z	-.057	-.057	0	%100
5	MP4A	X	-.451	-.451	0	%100
6	MP4A	Z	-.26	-.26	0	%100
7	MP3A	X	-.451	-.451	0	%100
8	MP3A	Z	-.26	-.26	0	%100
9	MP2A	X	-.451	-.451	0	%100
10	MP2A	Z	-.26	-.26	0	%100
11	MP1A	X	-.451	-.451	0	%100
12	MP1A	Z	-.26	-.26	0	%100
13	M32	X	-.451	-.451	0	%100
14	M32	Z	-.26	-.26	0	%100
15	M38	X	-.854	-.854	0	%100
16	M38	Z	-.493	-.493	0	%100
17	M43	X	-.854	-.854	0	%100
18	M43	Z	-.493	-.493	0	%100
19	OVP	X	-.546	-.546	0	%100
20	OVP	Z	-.315	-.315	0	%100
21	M40B	X	-.481	-.481	0	%100
22	M40B	Z	-.278	-.278	0	%100
23	M39B	X	-.025	-.025	0	%100
24	M39B	Z	-.015	-.015	0	%100
25	M40C	X	-.019	-.019	0	%100
26	M40C	Z	-.011	-.011	0	%100
27	M42B	X	-.025	-.025	0	%100
28	M42B	Z	-.015	-.015	0	%100
29	M43B	X	-.019	-.019	0	%100
30	M43B	Z	-.011	-.011	0	%100
31	M37A	X	-.451	-.451	0	%100
32	M37A	Z	-.26	-.26	0	%100
33	M40A	X	-.675	-.675	0	%100
34	M40A	Z	-.39	-.39	0	%100
35	M43A	X	-.675	-.675	0	%100
36	M43A	Z	-.39	-.39	0	%100
37	M45A	X	-.013	-.013	0	%100
38	M45A	Z	-.007	-.007	0	%100
39	M45B	X	-.429	-.429	0	%100
40	M45B	Z	-.248	-.248	0	%100
41	M41	X	-.481	-.481	0	%100
42	M41	Z	-.278	-.278	0	%100
43	M43C	X	-.019	-.019	0	%100
44	M43C	Z	-.011	-.011	0	%100
45	M45C	X	-.019	-.019	0	%100
46	M45C	Z	-.011	-.011	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	M1	X	-.171	-.171	0	%100
2	M1	Z	-.297	-.297	0	%100
3	M2	X	-.171	-.171	0	%100
4	M2	Z	-.297	-.297	0	%100
5	MP4A	X	-.26	-.26	0	%100
6	MP4A	Z	-.451	-.451	0	%100
7	MP3A	X	-.26	-.26	0	%100
8	MP3A	Z	-.451	-.451	0	%100
9	MP2A	X	-.26	-.26	0	%100
10	MP2A	Z	-.451	-.451	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
11	MP1A	X	-.26	-.26	0	%100
12	MP1A	Z	-.451	-.451	0	%100
13	M32	X	-.26	-.26	0	%100
14	M32	Z	-.451	-.451	0	%100
15	M38	X	-.164	-.164	0	%100
16	M38	Z	-.285	-.285	0	%100
17	M43	X	-.164	-.164	0	%100
18	M43	Z	-.285	-.285	0	%100
19	OVP	X	-.315	-.315	0	%100
20	OVP	Z	-.546	-.546	0	%100
21	M40B	X	-.285	-.285	0	%100
22	M40B	Z	-.493	-.493	0	%100
23	M39B	X	-.049	-.049	0	%100
24	M39B	Z	-.084	-.084	0	%100
25	M40C	X	-.036	-.036	0	%100
26	M40C	Z	-.063	-.063	0	%100
27	M42B	X	-.049	-.049	0	%100
28	M42B	Z	-.084	-.084	0	%100
29	M43B	X	-.036	-.036	0	%100
30	M43B	Z	-.063	-.063	0	%100
31	M37A	X	-.26	-.26	0	%100
32	M37A	Z	-.451	-.451	0	%100
33	M40A	X	-.424	-.424	0	%100
34	M40A	Z	-.734	-.734	0	%100
35	M43A	X	-.424	-.424	0	%100
36	M43A	Z	-.734	-.734	0	%100
37	M45A	X	-.034	-.034	0	%100
38	M45A	Z	-.06	-.06	0	%100
39	M45B	X	-.141	-.141	0	%100
40	M45B	Z	-.244	-.244	0	%100
41	M41	X	-.285	-.285	0	%100
42	M41	Z	-.493	-.493	0	%100
43	M43C	X	-.036	-.036	0	%100
44	M43C	Z	-.063	-.063	0	%100
45	M45C	X	-.036	-.036	0	%100
46	M45C	Z	-.063	-.063	0	%100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N68	max	1315.841	33	779.969	20	-868.901	2	-.201	8	0	51	.114	3
2		min	-1096.355	3	357.714	2	-3951.475	20	-.567	14	0	1	-.177	33
3	N69	max	133.463	2	779.969	20	1558.776	14	-.276	2	0	51	.177	3
4		min	-374.735	49	357.714	2	-261.994	8	-.715	20	0	1	-.237	33
5	N74A	max	1476.317	9	572.725	13	1156.752	3	-.146	9	0	51	.099	3
6		min	-1285.999	3	256.937	7	-1611.103	9	-.507	15	0	1	-.204	33
7	N75	max	198.682	47	572.725	13	3213.011	15	-.069	3	0	51	.187	3
8		min	-1160.883	29	256.937	7	-16.058	9	-.36	21	0	1	-.232	9
9	N68B	max	210.025	8	33.135	21	129.272	8	0	51	0	51	0	51
10		min	-188.231	2	8.442	2	-107.004	2	0	1	0	1	0	1
11	N73A	max	880.545	3	35.681	17	2834.066	9	0	51	0	51	0	51
12		min	-882.015	9	8.927	10	-2872.373	3	0	1	0	1	0	1
13	Totals:	max	1726.272	9	2761.958	21	1972.165	1						

Envelope Joint Reactions (Continued)

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
14	min	-1726.26	3	1297.806	3	-1972.184	7						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc....	...	...	phi*P...	phi*P...	phi*M...	phi*M...	...	Eqn
1	M1	HSS2X2...	.577	141....	8	.122	60....	y	9	3863....	62514	3.326	3.326	...	H1-1a
2	M2	HSS2X2...	.625	60.9...	9	.150	37....	y	9	3863....	62514	3.326	3.326	...	H1-1a
3	MP4A	PIPE_2.0	.240	60.75	49	.036	13.5		8	20866...	32130	1.872	1.872	...	H1-1b
4	MP3A	PIPE_2.0	.224	12	32	.045	12		9	20866...	32130	1.872	1.872	...	H1-1b
5	MP2A	PIPE_2.0	.356	73	9	.182	25		10	14916...	32130	1.872	1.872	...	H1-1b
6	MP1A	PIPE_2.0	.082	60.75	3	.067	60....		9	20866...	32130	1.872	1.872	...	H1-1b
7	M32	PIPE_2.0	.176	57.75	3	.099	57....		4	20866...	32130	1.872	1.872	...	H1-1b
8	M38	W6X15	.180	0	33	.091	5.1...	z	33	14301...	143532	12.535	28.71	...	H1-1b
9	M43	W6X15	.202	0	9	.092	5.1...	z	9	14301...	143532	12.535	28.71	...	H1-1b
10	OVP	PIPE_2.5	.161	57.75	9	.150	57....		9	37773...	50715	3.596	3.596	...	H1-1b
11	M40B	LL2x2x3x3	.068	39.88	14	.006	79....	y	22	19163...	46656	2.666	1.598	...	H1-1b
12	M39B	PL3/8X6...	.129	5.546	7	.011	5.5...	y	9	63366...	72900	.57	9.113	...	H1-1b
13	M40C	LL2.5x2....	.087	0	4	.022	63.7	z	9	40714...	58320	4.854	2.55	...	H1-1b
14	M42B	PL3/8X6...	.151	5.546	3	.045	0	y	39	63366...	72900	.57	9.113	...	H1-1b
15	M43B	LL2.5x2....	.193	0	3	.030	63.7	z	9	40714...	58320	4.854	2.55	...	H1-1b
16	M37A	PIPE_2.0	.624	51.75	9	.314	57....		9	20866...	32130	1.872	1.872	...	H1-1b
17	M40A	PL3/8X6...	.086	5.546	6	.012	5.5...	y	9	63366...	72900	.57	9.113	...	H1-1b
18	M43A	PL3/8X6...	.289	5.546	10	.053	0	y	33	63366...	72900	.57	9.113	...	H1-1b
19	M45A	PIPE_2.0	.071	0	9	.006	0		20	12155...	32130	1.872	1.872	...	H1-1b
20	M45B	PIPE_2.0	.248	53.0...	10	.005	0		23	13081...	32130	1.872	1.872	...	H1-1a
21	M41	LL2x2x3x3	.065	39.88	13	.008	79....	y	3	19163...	46656	2.666	1.598	...	H1-1b
22	M43C	LL2.5x2....	.110	0	3	.024	63.7	z	9	40714...	58320	4.854	2.55	...	H1-1b
23	M45C	LL2.5x2....	.270	0	3	.019	63.7	z	9	40714...	58320	4.854	2.55	...	H1-1b

VzW SMART Tool© Vendor

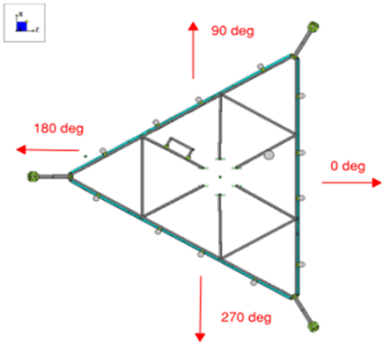
Client:	Verizon Wireless	Date:	4/12/2022
Site Name:	WILTON CT		
PSLC #:	467241		
Fuze ID #:	16272216	Page:	1

Version 1.0

I. Mount-to-Tower Connection Check

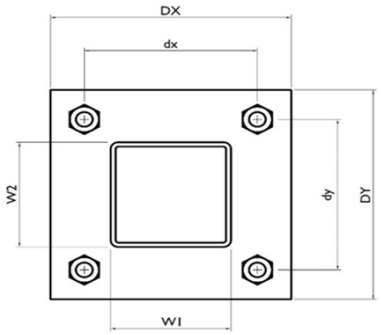
Custom Orientation Required	Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N74	0
N75	0
N68	0
N69	0



Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel

Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	2.5
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	4
Bolt Type:	A307
Bolt Diameter (in):	0.375
Required Tensile Strength / bolt (kips):	1.8
Required Shear Strength / bolt (kips):	0.3
Tensile Capacity / bolt (kips):	3.7
Shear Capacity / bolt (kips):	2.2
Bolt Overall Utilization:	**48.2%**



Tower Connection Baseplate Checks	No

Exhibit F

Power Density/RF Emissions Report

Site Name: ***WILTON CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	628	2511	162	0.0034	0.5007	0.69%
VZW CDMA	877.26	2	360	720	162	0.0010	0.5848	0.17%
VZW Cellular	874	4	715	2858	162	0.0039	0.5827	0.67%
VZW PCS	1980	4	1480	5919	162	0.0081	1.0000	0.81%
VZW AWS	2120	4	1450	5802	162	0.0080	1.0000	0.80%
VZW CBRS	3625	4	13	53	162	0.0001	1.0000	0.01%
VZW CBAND	3730.005	4	6531	26125	162	0.0358	1.0000	3.58%
Total Percentage of Maximum Permissible Exposure								6.72%

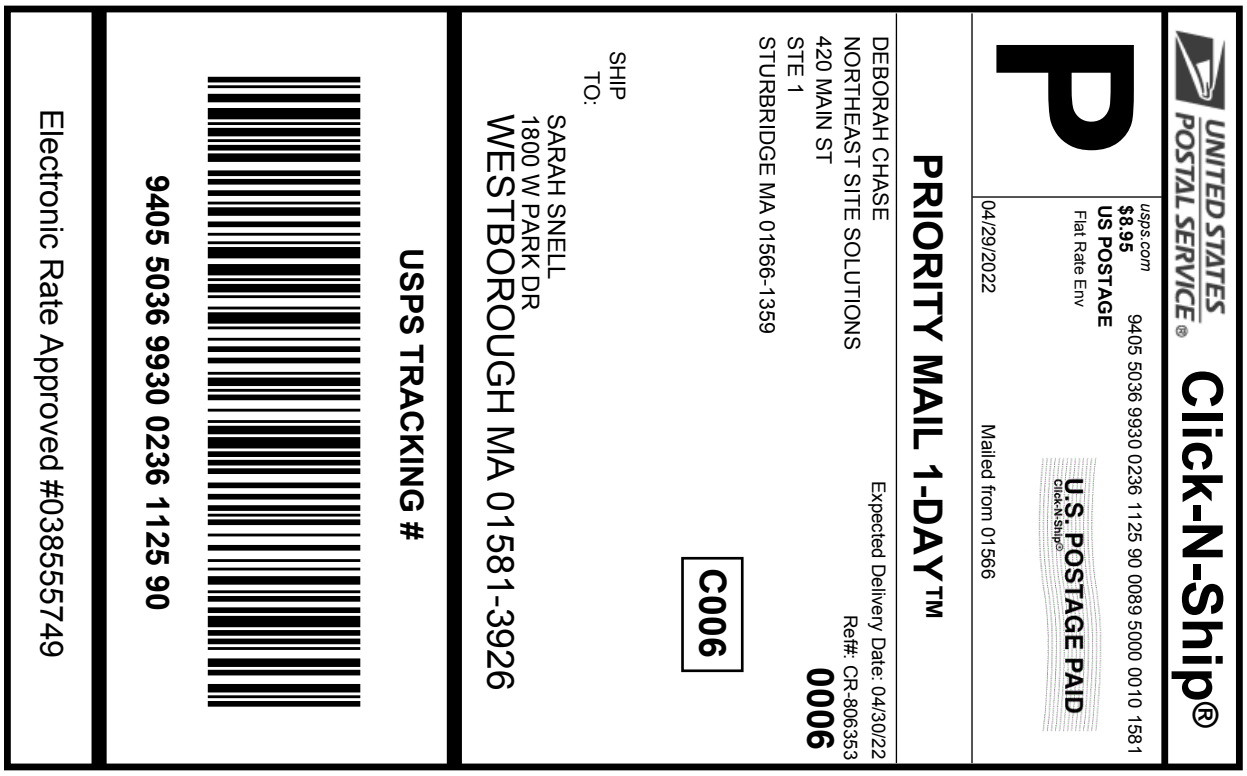
*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

Exhibit G

Recipient Mailings



Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
4. **To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0236 1125 90

Trans. #:	562413945
Print Date:	04/29/2022
Ship Date:	04/29/2022
Expected Delivery Date:	04/30/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

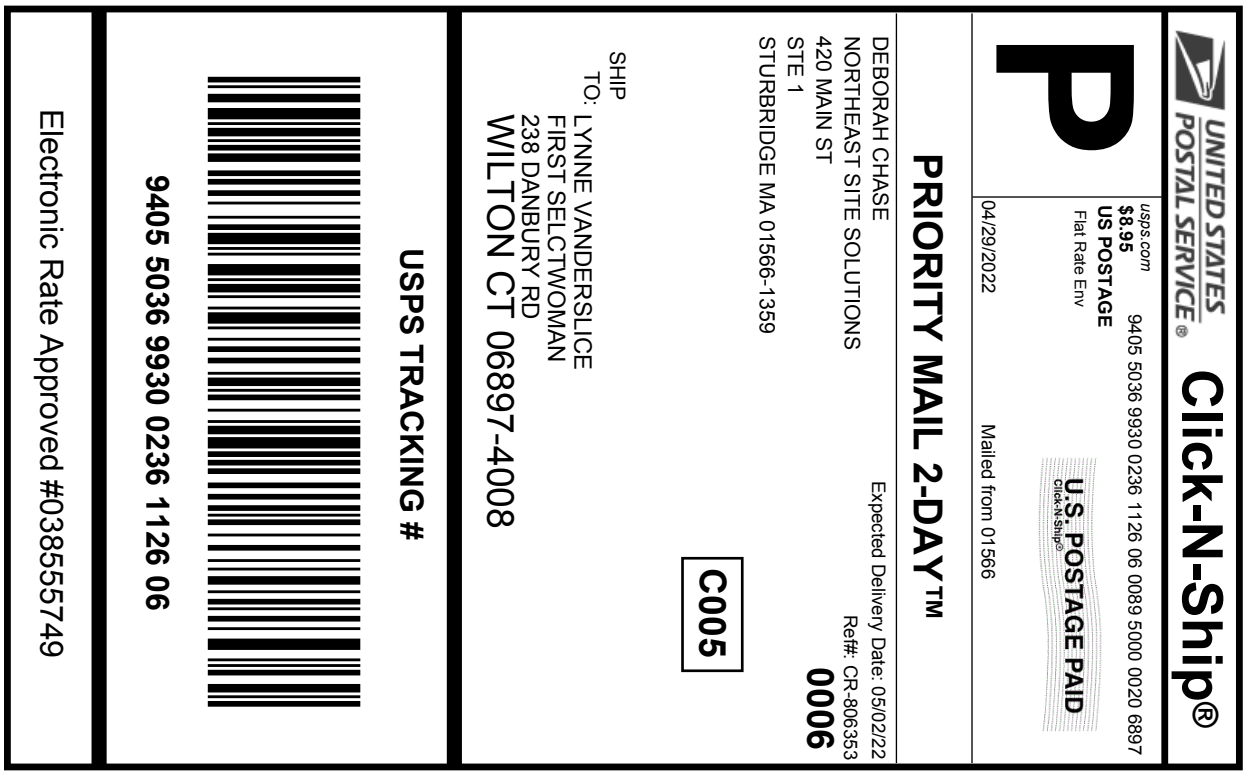
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-806353

To: SARAH SNELL
1800 W PARK DR
WESTBOROUGH MA 01581-3926

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com



Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
4. **To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0236 1126 06

Trans. #:	562413945
Print Date:	04/29/2022
Ship Date:	04/29/2022
Expected Delivery Date:	05/02/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

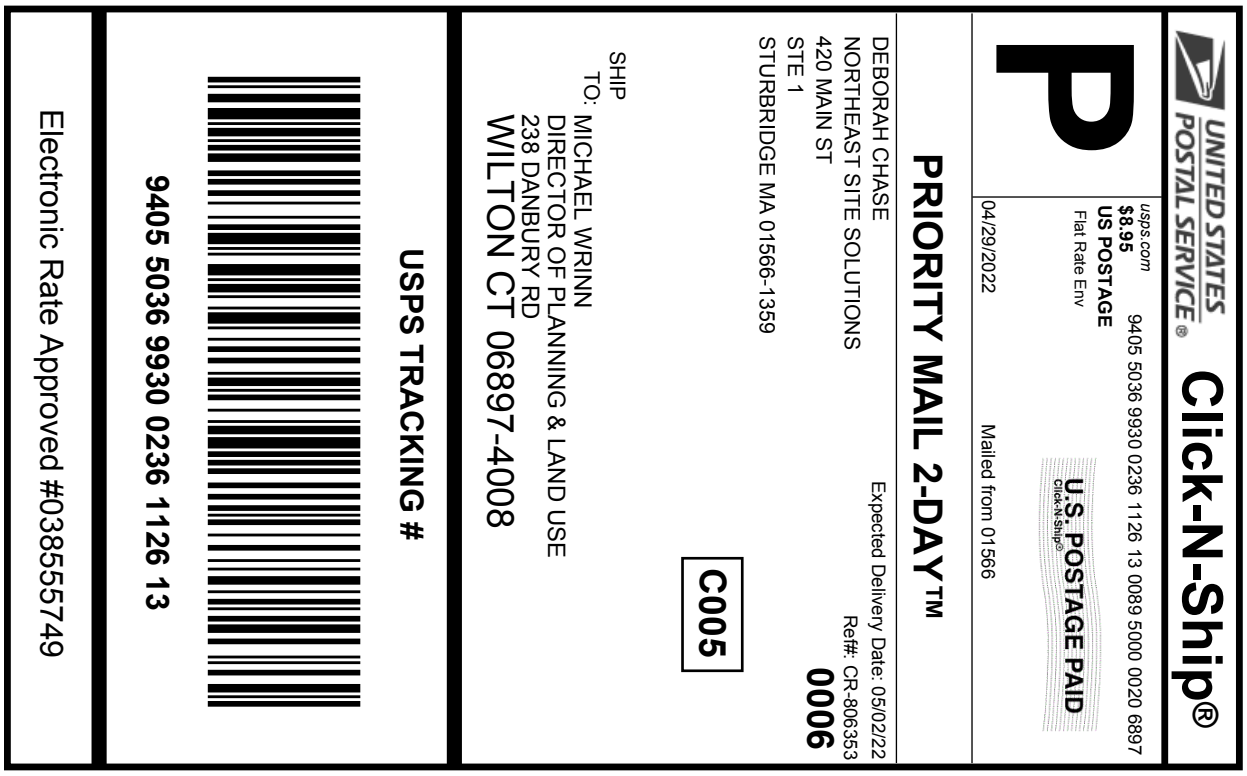
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-806353

To: LYNNE VANDERSLICE
FIRST SELCTWOMAN
238 DANBURY RD
WILTON CT 06897-4008

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com



Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
4. **To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0236 1126 13

Trans. #:	562413945
Print Date:	04/29/2022
Ship Date:	04/29/2022
Expected Delivery Date:	05/02/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-806353

To: MICHAEL WRINN
DIRECTOR OF PLANNING & LAND USE
238 DANBURY RD
WILTON CT 06897-4008

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

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806353 Crown V2W

UNITED STATES POSTAL SERVICE.

FARMINGTON
210 MAIN ST
FARMINGTON, CT 06032-9998
(800)275-8777

05/03/2022 03:06 PM

Product	Qty	Unit Price	Price
Prepaid Mail Westborough, MA 01581 Weight: 0 lb 1.90 oz Acceptance Date: Tue 05/03/2022 Tracking #: 9405 5036 9930 0236 1125 90	1		$0.00
Prepaid Mail Wilton, CT 06897 Weight: 0 lb 8.40 oz Acceptance Date: Tue 05/03/2022 Tracking #: 9405 5036 9930 0236 1126 06	1		$0.00
Prepaid Mail Wilton, CT 06897 Weight: 0 lb 8.40 oz Acceptance Date: Tue 05/03/2022 Tracking #: 9405 5036 9930 0236 1126 13	1		$0.00
Grand Total:			$0.00

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