

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

May 6, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
577 Bell Street, Glastonbury, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Council in Docket No. 16. Cellco’s shared use of the tower was approved by the Council in Petition No. 990. A copy of the Docket No. 16 Decision and Order and the Petition No. 990 Staff Report are included in [Attachment 1](#).

Cellco now intends to modify its facility by replacing three (3) existing antennas with three (3) Samsung 64T64RMMU antennas; and replacing six (6) existing remote radio heads (“RRHs”) with six (6) newer model RRHs on Cellco’s existing antenna mounting structure. A set of project plans showing Cellco’s proposed facility modifications and Cellco’s new antennas and RRHs specifications are included in [Attachment 2](#).

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Glastonbury’s Town Manager and Land Use Officer.

Melanie A. Bachman, Esq.
May 6, 2021
Page 2

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 tower. Cellco's replacement antennas will be installed on Cellco's existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, 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 installation of Cellco's new antennas and RRHs will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A General Power Density table for the modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation, tower base plate and a slightly modified antenna mounting system can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4. Also included in Attachment 4 is a separate letter prepared by the consulting engineer responsible for the preparation of the MA verifying that the antenna model described in the MA and SA, as a nL-Sub 6 or License Sub6 Antenna, is the Samsung 64T64R model antenna and RRH that will be installed on the tower.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials is included in Attachment 6.

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

Melanie A. Bachman, Esq.
May 6, 2021
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Richard J. Johnson, Glastonbury Town Manager
Peter Carey, Building Official /Zoning Enforcement Officer
Bell Street LLC, Property Owner
Aleksey Tyurin

ATTACHMENT 1

APPLICATION BY GREATER HARTFORD
CATV, INC., FOR A CERTIFICATE : POWER FACILITY
OF ENVIRONMENTAL COMPATIBILITY :
AND PUBLIC NEED FOR THE PROPOSED : EVALUATION COUNCIL
RECEIVING TOWER TO BE CONSTRUCTED :
IN GLASTONBURY, CONNECTICUT. : JANUARY 11, 1980

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

Based on the foregoing, the application of the Greater Hartford CATV, Inc. to construct a 90 foot community antenna television tower to be located on a 20 foot by 30 foot parcel of land on Bell Street, Glastonbury, Connecticut, a certificate of environmental compatibility and public need, as required by section 16-50k of the General Statutes of Connecticut, Revisions of 1958, revised to 1979, as amended, shall be issued, subject to the following conditions:

1. Tower Height

The tower shall be no higher than necessary to provide the service, and in no event shall it exceed 90 feet in height.

2. Microwave Capability

The tower shall not be used to transmit any microwave signals nor shall it receive any other microwave signals except as granted in this certificate.

3. Development and Management Plan

The Applicant shall, prior to the commencement of construction of the tower and associated structures, submit to the Council for its approval a Development and Management Plan, which plan shall be approved, modified, or disapproved by the Council within 30 days after receipt. The Plan shall consist of:

- a. A description of the landscaping proposed to screen the tower site.
- b. A description of construction procedures designed to minimize disturbance to the root systems of trees near the access road, utility trench, and tower site.
- c. Location of the access road and trench for utility services including coaxial cable, and the location

of any other buried utility services.

4. Construction Requirements

- a. Except as otherwise authorized by the Council, no construction of the tower or associated structures shall begin prior to approval by the Council.
- b. The Applicant shall provide the Council, in writing, a minimum of two weeks in advance, notice of the beginning of construction of the tower and associated structures.
- c. The Applicant shall provide the Council with written notice of completion of construction and site rehabilitation within two weeks of such completion.
- d. The Applicant shall provide the Council with a final report for the tower site after completion of all construction and rehabilitation within 180 days after such completion. The final report shall include the actual construction costs of the tower and associated structures including but not limited to the following costs:
 - (i) construction of the tower and of associated structures; and
 - (ii) rehabilitation.
- e. The Applicant shall construct the tower and associated structures in accordance with all applicable federal, state, and local laws and regulations.

5. Time Limitation

If the construction authorized under this decision and order is not completed before January 11, 1983, this decision and order shall be void.

We hereby direct, pursuant to section 16-50p(c) of the General Statutes of the State of Connecticut, revision of 1958, revised to 1979, as amended, that a copy of this order and opinion be served on each party as hereinafter named. A notice of the issuance of the order and opinion shall be published in the Glastonbury Citizen and the Hartford Courant.

The parties to this proceeding are contained on the following list:

Greater Hartford CATV, Inc.
801 Parker Street
Manchester, Connecticut 06040

Mr. Dale Richter
310 Wiggam Road
Glastonbury, Connecticut 06033

Ms. Lani Jurev
Cable Advisory Committee
162 Tuarry Road
Glastonbury, Connecticut 06033


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

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


Dated at Hartford, Connecticut, this 11th day of January, 1980.

Council Members

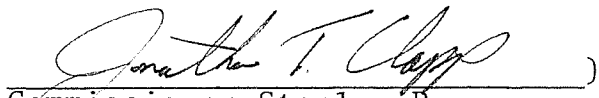
Vote Cast


Gloria Dibble Pond
Chairperson


Yes


Commissioner John T. Downey
Designee: Commissioner Peter Boucher

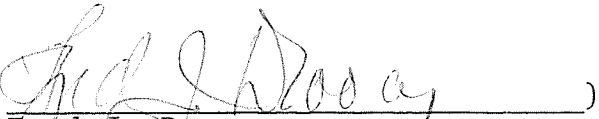
Yes


Commissioner Stanley Pac
Designee: Jonathan T. Clapp

Yes


Owen L. Clark

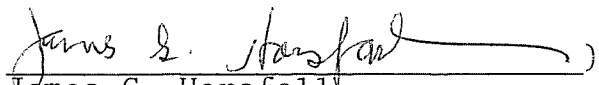
Yes


Fred J. Doocy


Yes


Mortimer A. Gelston


Yes


James G. Horsfall

Yes


Colin C. Tait

Yes


Christopher S. Wood

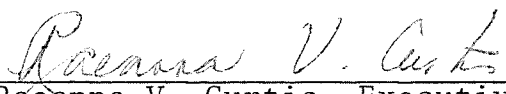
Yes

STATE OF CONNECTICUT)
 :
COUNTY OF HARTFORD)

ss. Hartford, January 11, 1980

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

ATTEST:



Raeanna V. Curtis, Executive Assistant
Power Facility Evaluation Council

Petition No. 990
Cellco Partnership d/b/a Verizon Wireless
577 Bell Street, Glastonbury
June 21, 2011

On May 3, 2011, the Connecticut Siting Council (Council) received a petition from Cellco Partnership d/b/a Verizon Wireless (Cellco) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed extension of an existing telecommunications facility located at 577 Bell Street, Glastonbury.

Specifically, Cellco seeks to extend the existing 92-foot lattice tower (owned by Cox Communications) by 12 feet to reach a height of 104 feet. Cellco would install 15 panel antennas at the 100-foot level of the tower on T-arm mounts. Cellco's antennas would not extend above the top of the tower. A Professional Engineer duly licensed in the State of Connecticut has certified that the tower and foundation require reinforcements to be structurally adequate to support the proposed increase in loading. The maximum worst-case power density would be 82.7 percent of the applicable limit.

To accommodate its equipment, Cellco would also install a 12-foot by 20-foot equipment shelter. Cellco would also install a backup diesel generator on a 5-foot by 12-foot concrete pad. This would require a 20-foot by 50-foot expansion of the compound to the west. There are no wetlands at the site. Tree clearing is not expected. To screen the expanded compound, Cellco would plant ten new shrubs to match existing shrubs.

The subject property is an existing farm with a residence owned by John Spencer. Abutting properties to the east, west, north are owned by the property owner's relatives. There are four houses south and near to the site, two of which are owned by the property owner's relatives. Cellco had provided notice to the property owner and all abutting property owners. The property owner does not object to the proposed project. Two abutters inquired about the project, but did not express objections. To date, no comments have been received from the Town of Glastonbury.

At the field review, it was suggested that a small gravel parking area immediately east of the tower be established so that Cellco's trucks would have a place to park that would not block the property owner's driveway. Cellco is amenable to such a modification to the site plan including installing a small amount of additional screening.

Cellco also had a visibility analysis performed by VHB, Inc. Based on the analysis, the overall year-round visibility would increase from 31 acres to 34 acres with the tower extension. Additional views of the extended tower are possible on Bush Hill Road, located approximately 0.45 miles north of the tower. However, such views would likely be intermittent and limited to the top of the proposed extension. Overall, the visibility of the tower is not expected to increase significantly.

This petition was field reviewed by Council member Phil Ashton and Michael Perrone of the Council staff on June 20, 2011. Attorney Ken Baldwin (representing Cellco) from Robinson & Cole LLP and Sandy Carter from Cellco also attended the field review. Mr. and Mrs. Spencer also attended the field review.

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

**SITE NAME:
MANCHESTER SOUTH CT**

**INSITE TOWERS # CT901
577 BELL ST.
GLASTONBURY, CT**

ANTENNA MODIFICATION

verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE



DAVID WEINPAHL, P.E.
CT LIC NO. 22144

SUBMITTALS

NO	DATE	DESCRIPTION
0	12.20.20	REVIEW
1	02.10.21	PERMITTING/CONSTRUCTION

NO DATE DESCRIPTION

DRAWN BY: MF
CHECKED BY: DW

PROJECT NAME:
**ANTMO
VZS01-850-LTE-PCS
DESIGN EXHIBITS**

SITE NAME:
MANCHESTER SOUTH CT

SITE ADDRESS:
**INSITE TOWERS # CT901
577 BELL ST.
GLASTONBURY, CT 06033**

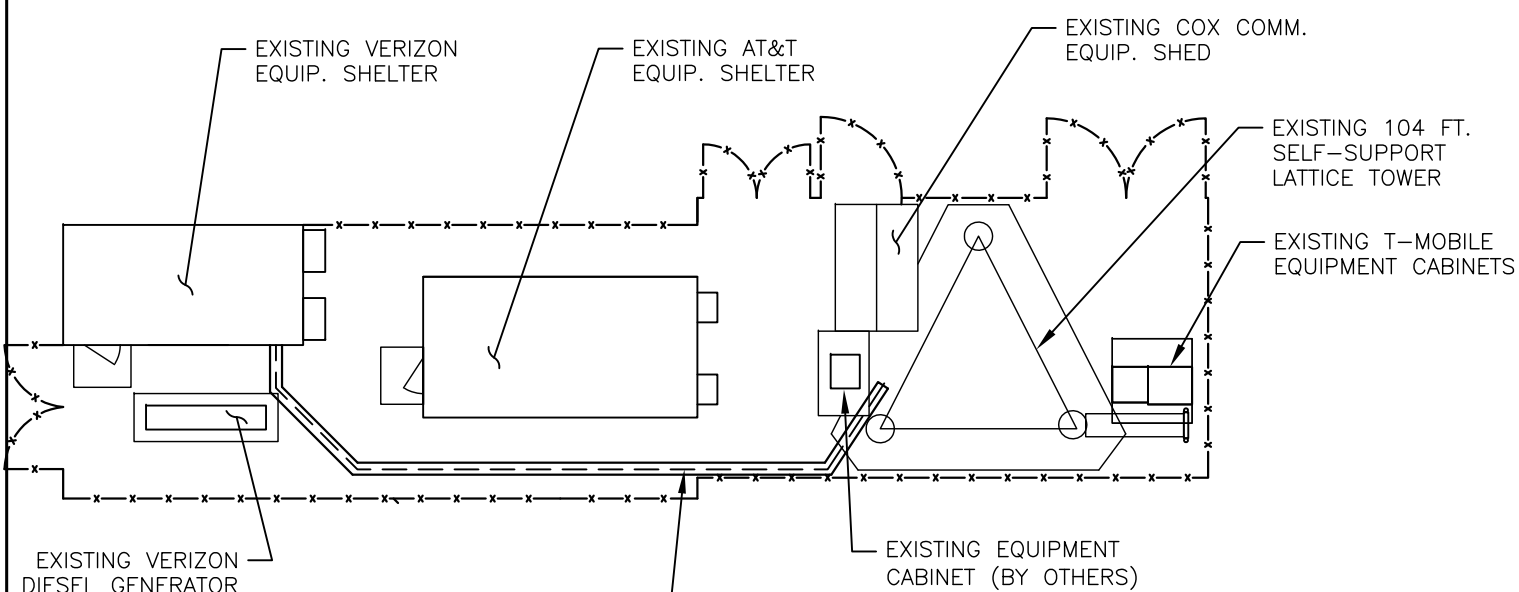
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
DE-1

PROJECT SUMMARY	
SITE NAME:	MANCHESTER SOUTH CT
SITE ADDRESS:	577 BELL ST. GLASTONBURY, CT 06033
PROPERTY OWNER:	577 BELL STREET LLC 499 BELL ST. GLASTONBURY, CT 06033
PARCEL ID:	H3-0320-W0011A
TOWER OWNER/MGMT:	INSITE TOWERS # CT901
COORDINATES:	41° 44' 01.11" N 72° 32' 58.84" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195



SHEET INDEX	
DE-1	TITLE SHEET
DE-2	COMPOUND PLAN & ELEVATION
DE-3	ANTENNA PLANS & ELEVATION
DE-4	RF PLUMBING DIAGRAM & B.O.M.
DE-5	GENERAL CONSTRUCTION NOTES

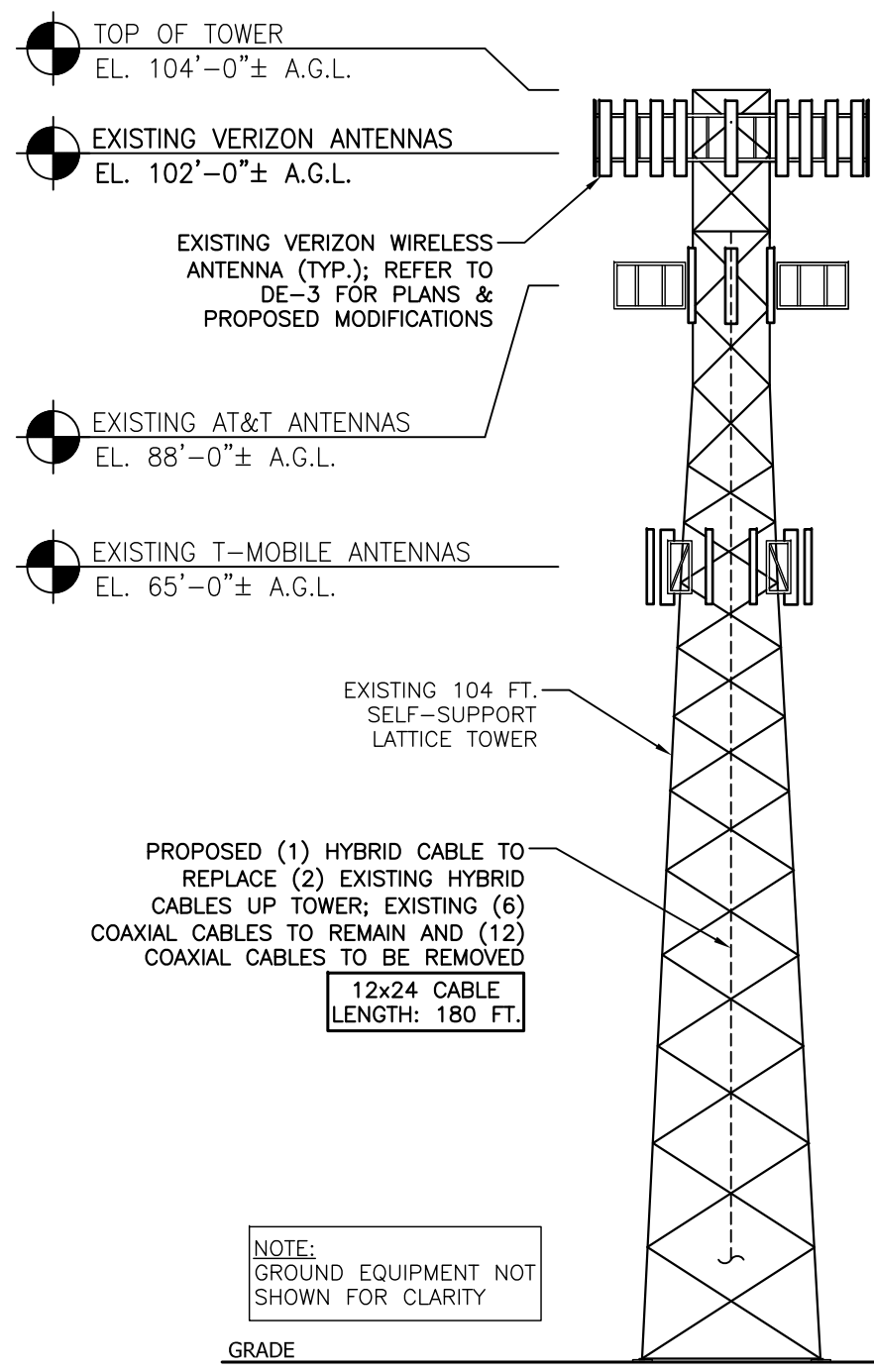


PROPOSED (1) HYBRID CABLE TO REPLACE (2) EXISTING HYBRID CABLES ON BRIDGE; EXISTING (6) COAXIAL CABLES TO REMAIN AND (12) COAXIAL CABLES TO BE REMOVED

12x24 CABLE
LENGTH: 180 FT.

1
DE-2
COMPOUND PLAN
Scale: 1/16" = 1'-0"

NOTES:
1. COMPOUND PLAN IS COMPILED FROM EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT ON 10-14-20 FOR A PROPOSED VERIZON ANTENNA MODIFICATION.
2. PLANS ARE DIAGRAMMATIC ONLY AND NOT TO BE SCALED.
3. REFER TO STRUCTURAL TOWER AND MOUNT ANALYSIS REPORTS, BY OTHERS UNDER SEPARATE COVER, FOR ANY REQUIRED TOWER & MOUNT REINFORCEMENTS, WHICH MUST BE PERFORMED PRIOR TO ANY OTHER VERIZON ANTENNA MODIFICATIONS.



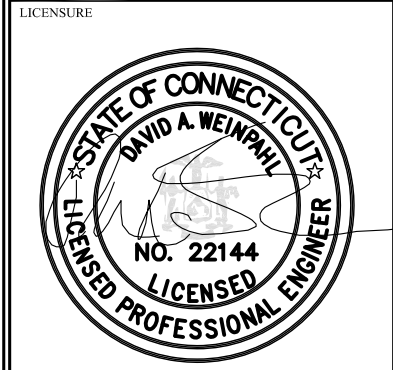
12x24 CABLE
LENGTH: 180 FT.

NOTE:
GROUND EQUIPMENT NOT SHOWN FOR CLARITY

2
DE-2
ELEVATION
Scale: N.T.S

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net



DAVID WEINPAAL, P.E.
CT LIC NO. 22144

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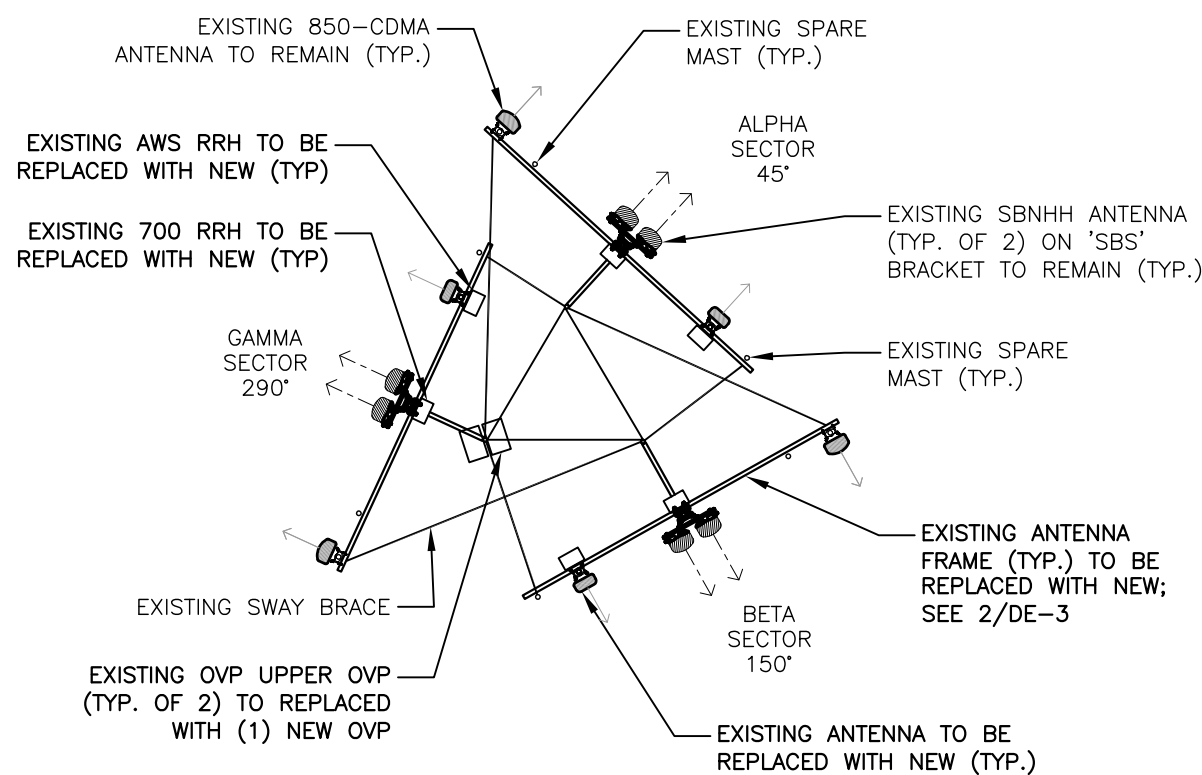
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DESIGN EXHIBITS**

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MANCHESTER SOUTH CT

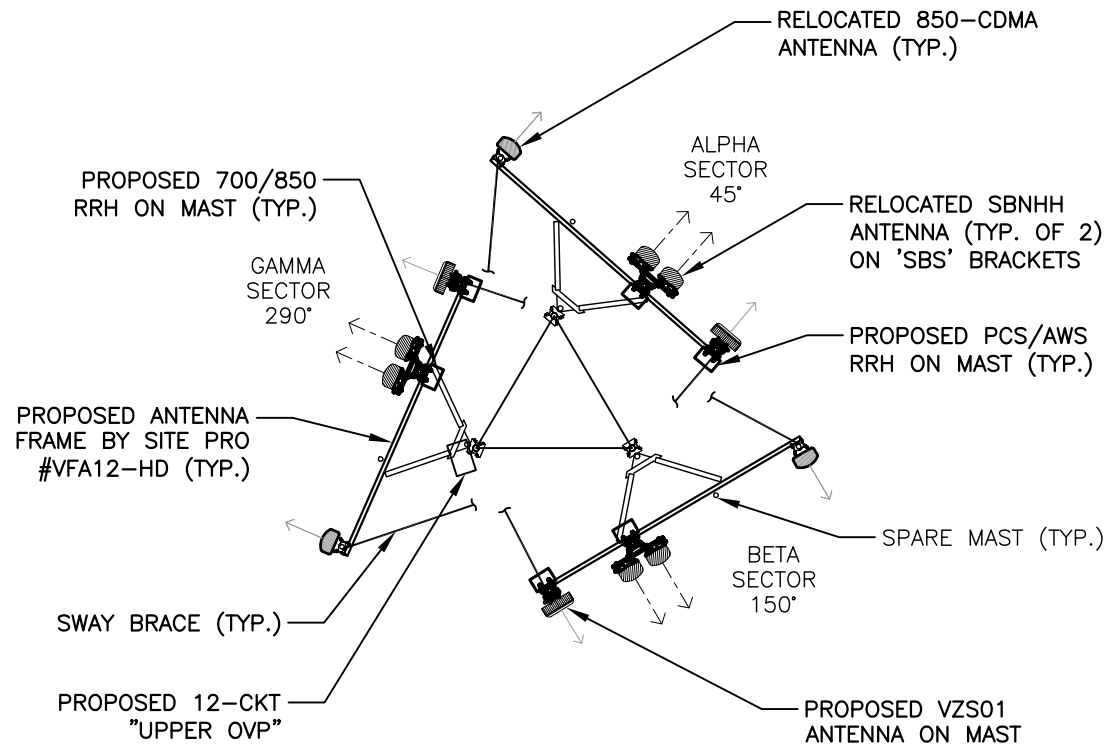
SITE ADDRESS:
**INSITE TOWERS # CT901
577 BELL ST.
GLASTONBURY, CT 06033**

SHEET TITLE:
**COMPOUND PLAN
& ELEVATION**

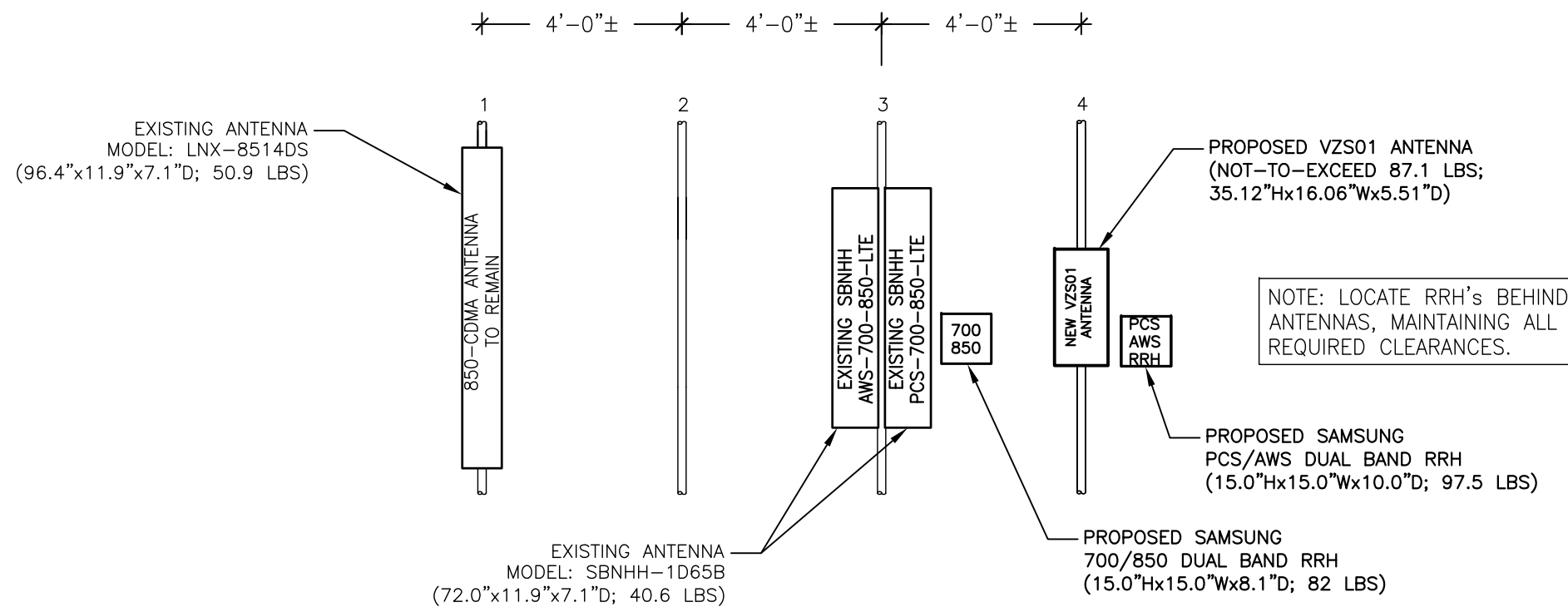
SHEET NUMBER:
DE-2



1 ANTENNA PLAN @ 102 FT. - EXISTING
DE-3 Scale: 1/8" = 1'-0"



2 ANTENNA PLAN @ 102 FT. - PROPOSED
DE-3 Scale: 1/8" = 1'-0"



3 SECTOR VIEWED FROM THE REAR
ANTENNA ELEVATION (TYP.) - PROPOSED
DE-3 Scale: 1/4" = 1'-0"

NOTES:
1. EXISTING ANTENNA FRAMES TO BE REPLACED WITH NEW AS PER MOUNT ANALYSIS, BY OTHERS.
2. RELOCATE EXISTING EQUIPMENT (TO REMAIN) TO NEW FRAMES.
3. REFER TO MOUNT ANALYSIS FOR ADDITIONAL INFORMATION.



WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



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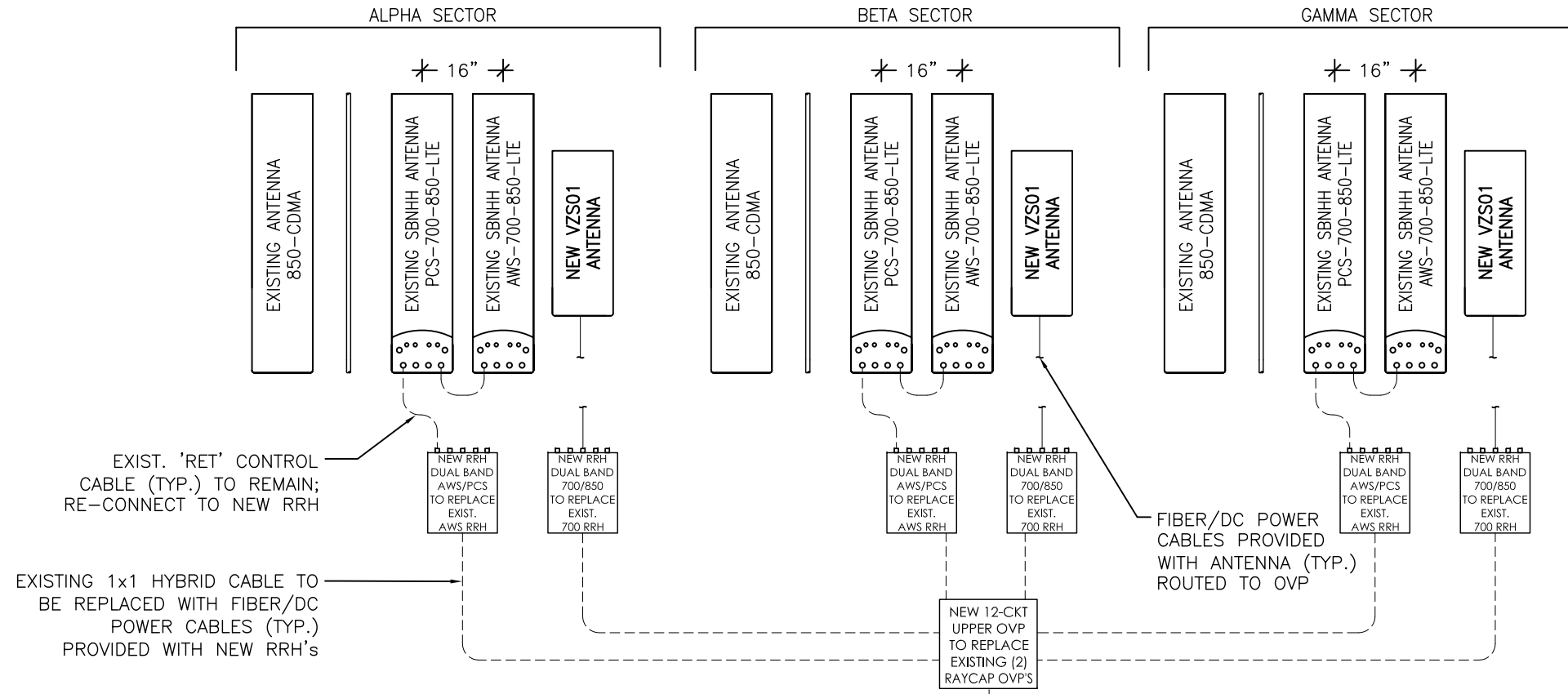
SHEET TITLE:
**ANTENNA PLAN
& ELEVATION**

SHEET NUMBER:
DE-3

GENERAL NOTES:

- CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
- CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS INSTRUCTIONS. EXTERIOR CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING SUPPORTS EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS WHEN REQUIRED.
- ALL CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS REFER TO RFDS FOR DETAILED PLUMBING DIAGRAM SHOWING ALL JUMPER AND OTHER CABLING CONNECTIONS AT ANTENNAS, RRH's, DIPLEXERS OR OTHER DEVICES.

NOTE: ALL ANTENNAS VIEWED FROM REAR



EXIST. 'RET' CONTROL CABLE (TYP.) TO REMAIN; RE-CONNECT TO NEW RRH

EXISTING 1x1 HYBRID CABLE TO BE REPLACED WITH FIBER/DC POWER CABLES (TYP.) PROVIDED WITH NEW RRH's

NOTE: ALL EXISTING EQUIPMENT (TO REMAIN) SHALL BE RE-LOCATED TO NEW TOWER FRAMES.

PROPOSED (1) 12x24 L.I. HYBRID CABLE TO REPLACE (2) EXISTING 6x12 HYBRID CABLES

EXISTING (6) 1-5/8" COAXIAL CABLES TO REMAIN; EXISTING (12) 1-5/8" COAXIAL CABLES TO BE REMOVED

EXISTING EQUIPMENT SHELTER AT GRADE

VERIZON EQUIPMENT ENGINEER TO RE-CONFIGURE EXISTING RAYCAP OVP FOR NEW CONFIG.

BILL OF MATERIALS			
DESCRIPTION	QTY	LENGTH	COMMENTS
LOWER OVP	-	-	EXISTING (2) RACK MOUNTS TO REMAIN
12-CKT. UPPER OVP	1	-	NEW 6627 RAYCAP TO REPLACE EXISTING RAYCAPS
12x24 HYBRID CABLE	1	180 FT.	NEW L.I. HYBRID TO REPLACE EXIST. (2) 6x12 HYBRIDS
1x1 HYBRID CABLE	-	-	EXISTING TO BE REMOVED
RET CONTROL CABLE	-	-	REFER TO PLUMBING DIAGRAM; RE-USE EXIST. RET CABLES
1/2" JUMPERS	-	-	SEE NOTE 2
AWS/PCS DUAL BAND RRH	3	-	REFER TO RFDS FOR SPECS; REMOVE EXIST. AWS RRH
700/850 DUAL BAND RRH	3	-	REFER TO RFDS FOR SPECS; REMOVE EXIST. 700 RRH
VZS01 ANTENNA	3	-	SAMSUNG INTEGRATED; REFER TO RFDS
SBNHH ANTENNA - AWS/700/850-LTE	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
SBNHH ANTENNA - PCS/700/850-LTE	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
SBS BRACKETS	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
850-CDMA ANTENNA	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR

- NOTES:
- ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
 - CONTRACTOR SHALL DETERMINE AND PROVIDE ALL REQUIRED PRE-FAB JUMPER QUANTITIES AND LENGTHS, KEEPING ALL LENGTHS TO A MINIMUM.

1 RF PLUMBING DIAGRAM
DE-4 Scale: N.T.S

verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
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MANCHESTER SOUTH CT

SITE ADDRESS:
**INSITE TOWERS # CT901
577 BELL ST.
GLASTONBURY, CT 06033**

SHEET TITLE:
**RF PLUMBING
DIAGRAM & B.O.M.**

SHEET NUMBER:
DE-4

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELLCO PARTNERSHIP d/b/a VERIZON, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.*
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELLCO PARTNERSHIP d/b/a VERIZON IS TO BE* REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.

verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE



DAVID WEINPAHL, P.E.
CT LIC NO. 22144

SUBMITTALS

NO	DATE	DESCRIPTION
0	12.20.20	REVIEW
1	02.10.21	PERMITTING/CONSTRUCTION

NO	DATE	DESCRIPTION
DRAWN BY:	MF	
CHECKED BY:	DW	

PROJECT NAME:
**ANTMO
VZS01-850-LTE-PCS
DESIGN EXHIBITS**

SITE NAME:
MANCHESTER SOUTH CT

SITE ADDRESS:
**INSITE TOWERS # CT901
577 BELL ST.
GLASTONBURY, CT 06033**

SHEET TITLE:
**GENERAL
CONSTRUCTION
NOTES**

SHEET NUMBER:
DE-5

SAMSUNG

Dual-Band Radio Unit AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

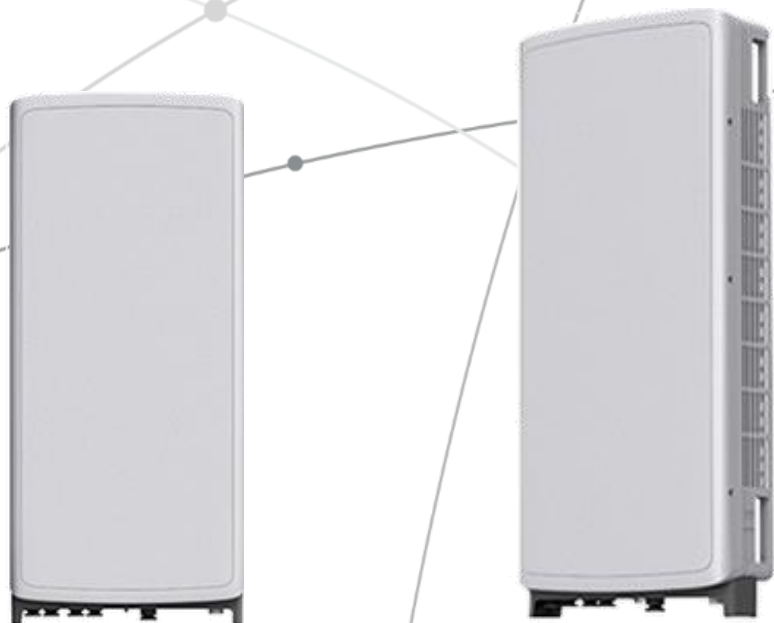
Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



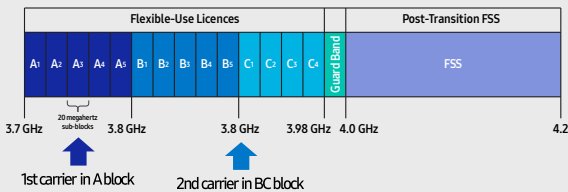
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

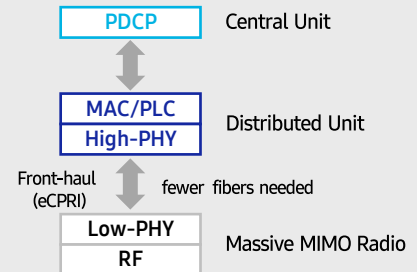
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

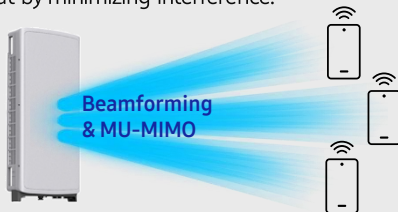


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

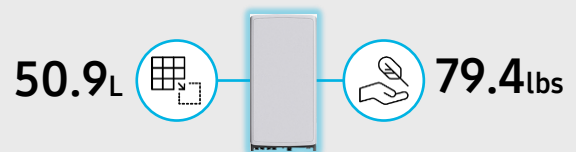
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/ Weight	16.06 x 35.06 x 5.51 inch (50.86L)/ 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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ATTACHMENT 3

	General	Power	Density						
Site Name: Manchester S									
Tower Height: Verizon @ 102ft									
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total	
Town	1	17	75	960	0.0013	0.6400	0.02%		
Clearwire	2	153	55	2496	0.0458	1.0000	0.46%		
Clearwire	1	211	55	11 GHz	0.0316	1.0000	0.32%		
T-Mobile	2	1028	65	2100	0.2124	1.0000	2.12%		
T-Mobile	2	2308	65	2100	0.4769	1.0000	4.77%		
T-Mobile	2	2057	65	1900	0.4250	1.0000	4.25%		
T-Mobile	2	592	65	600	0.1223	0.4000	3.06%		
T-Mobile	2	649	65	700	0.1341	0.4667	2.87%		
AT&T-UMTS	2	419	90	850	0.0427	0.5667	0.75%		
AT&T-PCS-UMTS	2	817	90	1900	0.0833	1.0000	0.83%		
AT&T-LTE	2	1239	90	700	0.1263	0.4667	2.71%		
AT&T-PCS-LTE	2	1876	90	1900	0.1912	1.0000	1.91%		
AT&T-GSM	2	971	90	850	0.0990	0.5667	1.75%		
AT&T-PCS-GSM	2	971	90	1900	0.0990	1.0000	0.99%		
Cox	1	100	94	451	0.0046	0.3007	0.15%		
Cox	6	100	70	452	0.0527	0.3013	1.75%		
VZW 700	4	697	102	0.0038	751	0.5007	0.75%		
VZW Cellular	2	819	102	0.0044	874	0.5827	0.76%		
VZW PCS	4	1593	102	0.0086	1975	1.0000	0.86%		
VZW AWS	4	1563	102	0.0084	2120	1.0000	0.84%		
VZW CBAND	4	6531	102	0.0353	3730.005	1.0000	3.53%		
									35.46%
* Source: Siting Council									

ATTACHMENT 4



Structural Analysis Report

Structure : 104 foot Self-support Tower
Insite Site Name : Glastonbury
Insite Site Number : CT901
Proposed Carrier : Verizon
Carrier Site Name : Manchester South CT
Carrier Site Number : 468979
Site Location : 577 Bell Street
Glastonbury, CT (Hartford County)
41.7338, -72.5497
Date : November 24, 2020
Max Member Stress Level : 86.4% (Tower)
93.0% (Tower Foundation)
Result : PASS

Prepared by:
Bennett & Pless, Inc.
B&P Job No.: 20.03.013.034

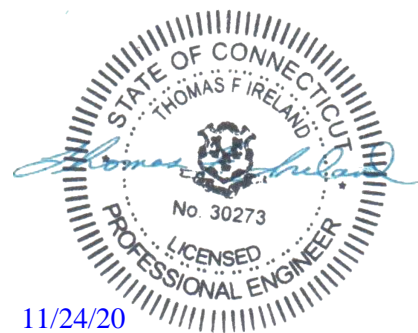


Table of Contents

Introduction	1
Existing Structural Information	1
Final Proposed Equipment Loading for Verizon.	1
Design Criteria	1
Analysis Results	2
Assumptions	2
Conclusions	2
Standard Conditions	3
Disclaimer of Warranties	3
Calculations	Attached
Collocation Application	Attached

Introduction

We have completed our structural analysis of the proposed equipment installation on the foregoing tower to determine its ability to support the new loads proposed by Verizon. The objective of the analysis was to determine if the tower meets the current structural codes and standards with the proposed equipment installation.

Existing Structural Information

The following documents for the existing structure were made available for our structural analysis.

Tower Information	Member sizes and configuration were obtained from the previous structural analysis by the URS Corporation dated 9/7/2010
Foundation Information	Previous modification drawings and analysis by Centek dated 2/22/12
Geotechnical Information	Previous modification drawings and analysis by Centek dated 2/22/12
Existing Equipment Information	Post Modification Report by Bennett and Pless dated 7/19/17 Insite Customer Application dated 5/15/19
Tower Reinforcement Information	Previous modification drawings by Centek dated 2/22/12, post modification inspection report by ETS dated 3/31/16, and previous modification drawings by Bennett and Pless dated 4/29/16 and current modification drawings by Bennett and Pless dated 1/20/17 were also used.

Final Proposed Equipment Loading for Verizon

The following proposed loading was obtained from the Insite Collocation Application:

Mount	RAD	Antenna/Equipment			Type	Coax	
		Qty.	Antenna	Qty.		Size/Type	
102.0	-	3	Sitepro1 VFA12-HD	Mount	6 1	1-5/8" Coax 1 5/8" Hybrid	
	102.0	6	Andrew SBNHH-1D65B	Panel			
		3	Andrew LNX-8514DS-A1M	Panel			
		3	nL-Sub6 Antenna	Panel			
		3	Samsung B5/B13 RRH-BR040C	RRH			
		3	Samsung B2/B66A RRH-BR049	RRH			
		1	RFS DB-C1-12C-24AB-0Z	Surge Suppressor			

Note: Proposed equipment is shown in bold above.

Design Criteria

The tower was analyzed using tnxTower (Version 8.0.7.4) tower analysis software using the following design criteria.

State/County	Connecticut/Hartford County
State Building Code	Connecticut State Building Code (IBC 2015)
TIA/EIA Standard Code	TIA-222-H
Basic Wind Speed	125 MPH (V_{ult})
Basic Wind Speed w/ Ice	50 MPH/ 1.50" Ice
Steel Grade	See attached tower profile for details
Exposure Category	B
Topographic Category (height)	1 (0.0 ft)
Importance Factor	1.0
Ss	0.195
Base Elevation	331 ft

Analysis Results

Based on the foregoing information, our structural analysis determined that **the existing tower is structurally capable of supporting the proposed equipment loads without further modifications.** The existing foundation has also been evaluated. The foundations were previously reinforced and the current overturning reactions at the base are 93% of the previous foundation modifications capacity which are within acceptable limits per IBC 2015. A seismic analysis was performed on this tower and is not controlling.

Assumptions

The below assumptions are true, complete and accurate.

1. The existing tower has been maintained to manufacturer's specifications and is in good condition.
2. Foundations are considered to have been properly designed for the original design loads.
3. All member connections are considered to have been designed to meet the load carrying capacity of the connected member.
4. Antenna mount loads have been estimated based on generally accepted industry standards.
5. The mounts for the proposed antennas have been analyzed and designed by others.
6. See additional assumptions contained in the report attached.
7. Tower is within acceptable engineering tolerance at 105%.
8. Foundations are within acceptable engineering tolerance at 110%.

Conclusions

The existing tower described above **does have sufficient capacity** to support the proposed loading based on the governing Building Code. The existing tower foundation also has sufficient capacity.

We appreciate the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance, please call us anytime at 561-288-1187.

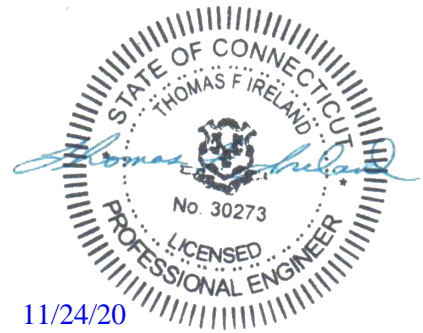
Sincerely,

Analysis by:



Michael Hlinka, E.I., M.S.
Design Engineer

Reviewed by:



Thomas F. Ireland, PE
Principal

11/24/20

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but not necessarily limited, to:

- Information supplied by the client regarding the structure itself, the antenna and transmission line loading on the structure and its components, or relevant information.
- Information from drawings in possession of Bennett & Pless Inc., or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to Bennett & Pless Inc. and used in the performance of our engineering services is correct and complete. In the absence of information contrary, we consider that all structures were constructed in accordance with the drawings and specifications and are in an uncorroded condition and have not deteriorated; and we, therefore, consider that their capacity has not significantly changed from the original design condition.

All services will be performed to the codes and standards specified by the client, and we do not imply to meet any other code and standard requirements unless explicitly agreed to in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes and standards, the client shall specify the exact requirements. In the absence of information to the contrary, all work will be performed in accordance with the revision of ANSI/TIA/EIA-222 requested.

All services are performed, results obtained and recommendations made in accordance with the generally accepted engineering principles and practices. Bennett & Pless Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Disclaimer of Warranties

Bennett & Pless Inc. makes no warranties, expressed or implied, in connection with this report, and disclaims any liability arising from the ability of the existing structure to support the design loads for which it was originally designed. Bennett & Pless Inc. will not be responsible whatsoever for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of Bennett & Pless Inc. pursuant to this report will be limited to the total fee received for preparation of this report.

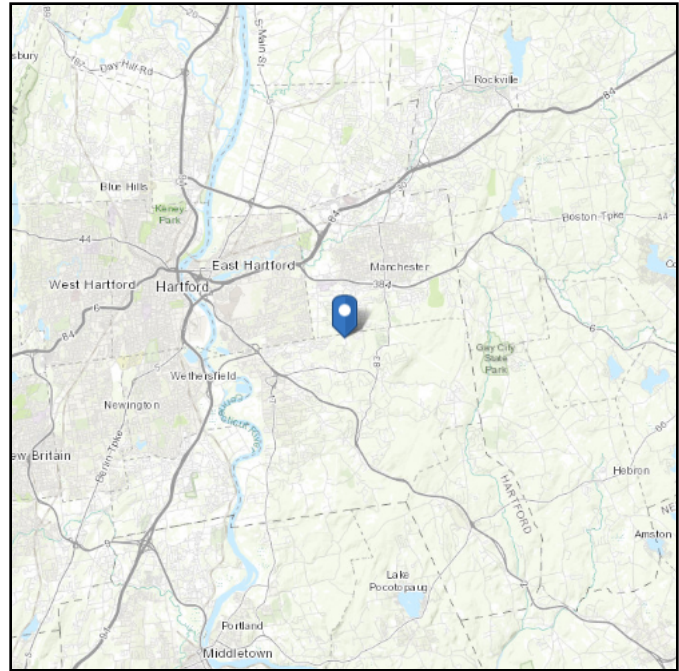
Attachment 1:
Calculations

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 330.86 ft (NAVD 88)
Latitude: 41.733642
Longitude: -72.549678



Wind

Results:

Wind Speed:	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4

Date Accessed: Fri Nov 20 2020

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.

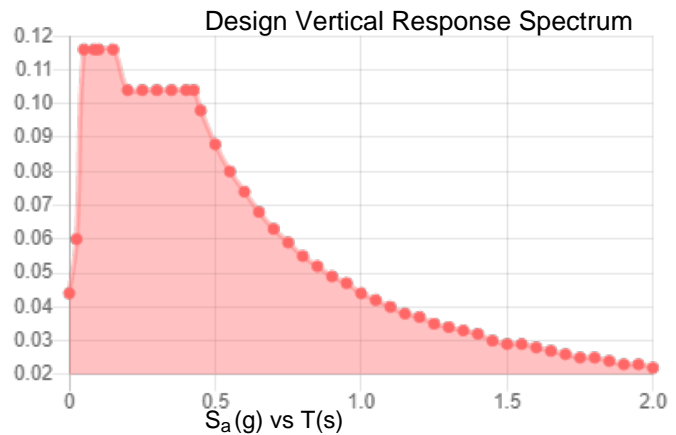
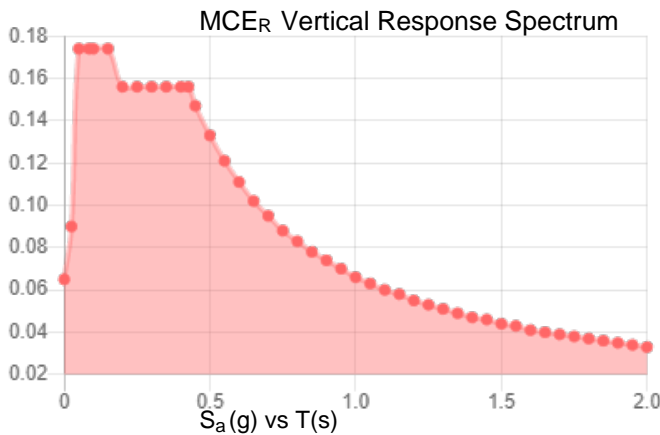
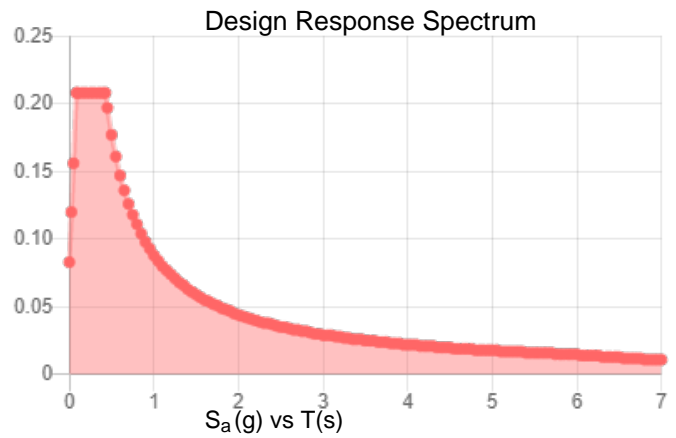
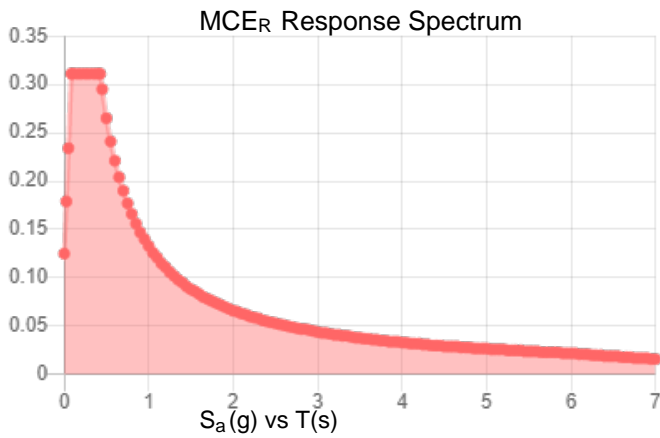
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

Results:

S_s :	0.195	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.106
F_v :	2.4	PGA _M :	0.168
S_{MS} :	0.311	F_{PGA} :	1.589
S_{M1} :	0.133	I_e :	1
S_{DS} :	0.208	C_v :	0.7

Seismic Design Category B



Data Accessed:

Fri Nov 20 2020

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: 1.50 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 Nov 20 2020

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

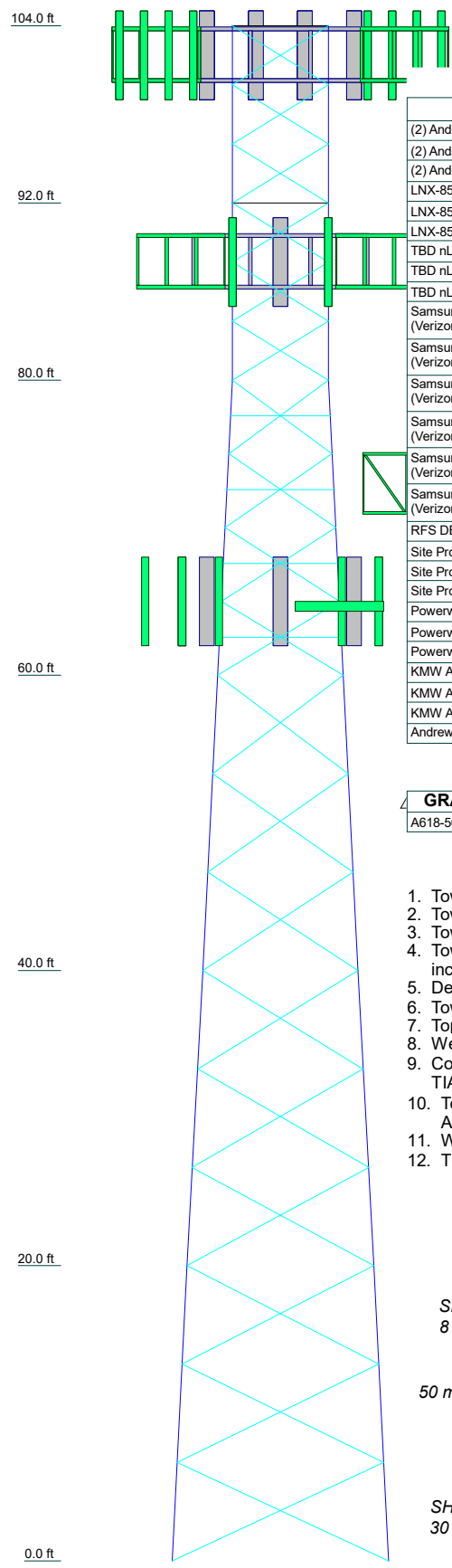
Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from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

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

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

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

Section	T1	T2	T3	T4	T5	T6
Legs	P2x154	P2.5x203	P2.5x203	P2.875x0.203w3/8HP+FF	P3.5x0.3w3/8HP+FF	P3.5x0.3w3/8HP+FF
Leg Grade	L1 1/2x1 1/2x3/16	L2x2x3/16	L2x2x3/16	A618-50	L2 1/2x2 1/2x3/8	L2 1/2x2 1/2x3/8
Diagonals				A36		
Diagonal Grade						
Top Girts	L2x2x3/16			N.A.		
Sec. Horizontals	N.A.		L2x2x3/16	N.A.	N.A.	N.A.
Face Width (ft)	6.52	6.56	8.56	10.56	12.6	14.65
# Panels @ (ft)	6 @ 4	4 @ 5	9 @ 6.66667			
Weight (K)	0.4	1.1	2.2	2.6	3.3	10.1



DESIGNED APPURTENANCE LOADING

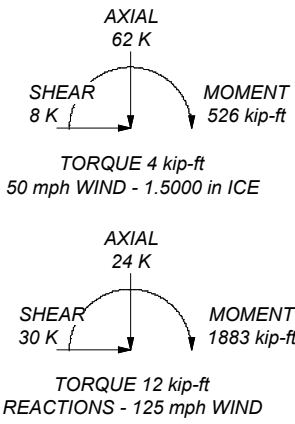
TYPE	ELEVATION	TYPE	ELEVATION
(2) Andrew SBNHH-1D65B (Verizon)	102	Andrew SBNHH-1D6565C (ATI)	88
(2) Andrew SBNHH-1D65B (Verizon)	102	Andrew SBNHH-1D6565C (ATI)	88
(2) Andrew SBNHH-1D65B (Verizon)	102	(2) TMA (ATI)	88
LNX-8514DS-A1M (Verizon)	102	(2) TMA (ATI)	88
LNX-8514DS-A1M (Verizon)	102	(2) TMA (ATI)	88
LNX-8514DS-A1M (Verizon)	102	(2) RRU-11 (ATI)	88
TBD nL Sub6 Antenna (Verizon)	102	(2) RRU-11 (ATI)	88
TBD nL Sub6 Antenna (Verizon)	102	(2) RRU-11 (ATI)	88
TBD nL Sub6 Antenna (Verizon)	102	Demarcation Box DC6-4860-188F (ATI)	88
Samsung B5/B13 RRH-BR04C (Verizon)	102	T-Frame Sector (ATI)	88
Samsung B5/B13 RRH-BR04C (Verizon)	102	T-Frame Sector (ATI)	88
Samsung B5/B13 RRH-BR04C (Verizon)	102	T-Frame Sector (ATI)	88
Samsung B5/B13 RRH-BR04C (Verizon)	102	DB806-XT (Town of Glastonbury)	79
Samsung B2/B66A RRH-BR049 (Verizon)	102	PR-950 (Town of Glastonbury)	73
Samsung B2/B66A RRH-BR049 (Verizon)	102	PIROD 6' Side Mount Standoff (Town of Glastonbury)	73
Samsung B2/B66A RRH-BR049 (Verizon)	102	AIR 21 (T-Mobile)	65
Samsung B2/B66A RRH-BR049 (Verizon)	102	AIR 21 (T-Mobile)	65
Samsung B2/B66A RRH-BR049 (Verizon)	102	AIR 21 (T-Mobile)	65
RFS DB-B1-12C-24AB-0Z (Verizon)	102	AIR32 (T-Mobile)	65
Site Pro 1 VFA12-HD (Verizon)	102	AIR32 (T-Mobile)	65
Site Pro 1 VFA12-HD (Verizon)	102	AIR32 (T-Mobile)	65
Site Pro 1 VFA12-HD (Verizon)	102	APXVAARR24-43-U-NA20 (T-Mobile)	65
Powerwave P65-17-XLH-RR (ATI)	88	APXVAARR24-43-U-NA20 (T-Mobile)	65
Powerwave P65-17-XLH-RR (ATI)	88	APXVAARR24-43-U-NA20 (T-Mobile)	65
Powerwave P65-17-XLH-RR (ATI)	88	4449 B71-B12 (T-Mobile)	65
KMW AX-X-CD-1665-OOT (ATI)	88	4449 B71-B12 (T-Mobile)	65
KMW AX-X-CD-1665-OOT (ATI)	88	4449 B71-B12 (T-Mobile)	65
KMW AX-X-CD-1665-OOT (ATI)	88	4449 B71-B12 (T-Mobile)	65
KMW AX-X-CD-1665-OOT (ATI)	88	Sector Mount [SM 403-3] w Mod (T-Mobile)	65
Andrew SBNHH-1D6565C (ATI)	88		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A618-50	50 ksi	70 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

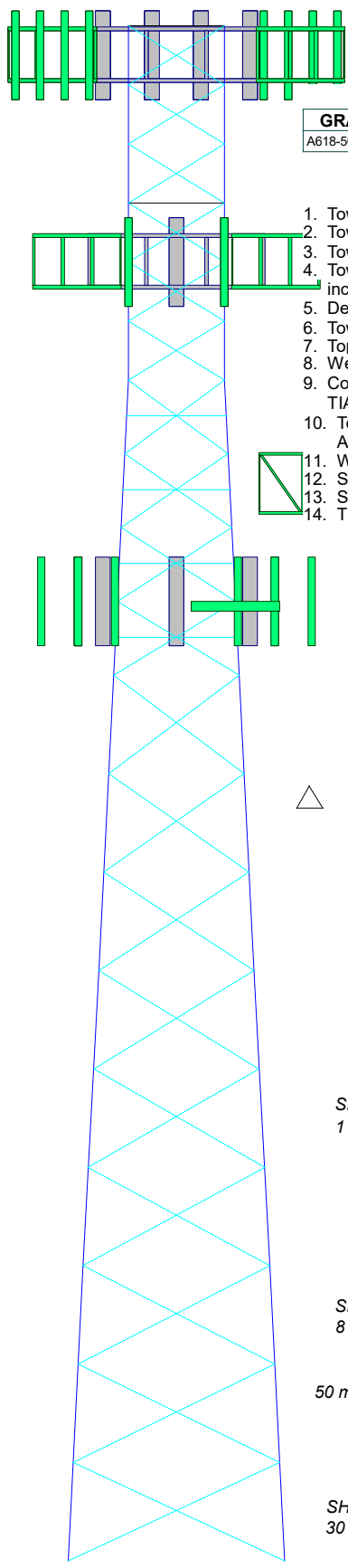
- Tower is located in Hartford County, Connecticut.
- Tower designed for Exposure C to the TIA-222-H Standard.
- Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
- Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
- Deflections are based upon a 60 mph wind.
- Tower Risk Category II.
- Topographic Category 1 with Crest Height of 0.00 ft
- Weld together tower sections have flange connections.
- Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications. **BASE:**
- Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
- Welds are fabricated with ER-70S-6 electrodes.
- TOWER RATING: 86.4%
ULTRALIGHT
SHEAR: 16 K



Bennett & Pless		Job: CT901 Glastonbury	
750 Park Commerce Dr #200		Project: SST Analysis	
Boca Raton, FL 33487		Client: Insite Towers, LLC	Drawn by: mhlinka
Phone: 561-282-2676		Code: TIA-222-H	Date: 11/20/20
FAX:		Path:	Scale: NTS
Experience Structural Expertise		Dwg No. E-1	

Section	T1	T2	T3	T4	T5	T6
Legs	P2x.154	P2.5x.203	P2.875x0.203w3/8HP+FF	P2.875x0.203w3/8HP+FF	P3.5x0.3w3/8HP+FF	P3.5x0.3w3/8HP+FF
Leg Grade	L1 1/2x1 1/2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/8	L2 1/2x2 1/2x3/8	L2 1/2x2 1/2x3/8
Diagonals	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/8	L2x2x3/8	L2x2x3/8
Diagonal Grade	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/8	L2x2x3/8	L2x2x3/8
Top Girts	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sec. Horizontals	N.A.	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/8	L2x2x3/8
Face Width (ft)	6.52	6.56	8.56	10.56	12.6	14.65
# Panels @ (ft)	6 @ 4	4 @ 5	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667	9 @ 6.66667
Weight (K)	0.4	0.4	1.1	2.2	2.6	3.3

104.0 ft
92.0 ft
80.0 ft
60.0 ft
40.0 ft
20.0 ft
0.0 ft



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A618-50	50 ksi	70 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 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 0.00 ft
8. Weld together tower sections have flange connections.
9. Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
10. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
11. Welds are fabricated with ER-70S-6 electrodes.
12. Seismic calculations are in accordance with TIA-222-H.
13. Seismic loads do not control over wind loads.
14. TOWER RATING: 86.4%

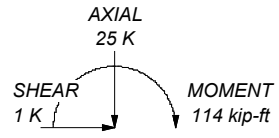


ALL REACTIONS ARE FACTORED

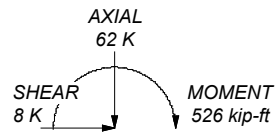
MAX. CORNER REACTIONS AT BASE:

DOWN: 157 K
SHEAR: 18 K

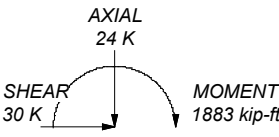
UPLIFT: -136 K
SHEAR: 16 K



TORQUE 0 kip-ft
SEISMIC



TORQUE 4 kip-ft
50 mph WIND - 1.5000 in ICE



TORQUE 12 kip-ft
REACTIONS - 125 mph WIND

Bennett & Pless		Job: CT901 Glastonbury	
750 Park Commerce Dr #200		Project: SST Analysis	
Boca Raton, FL 33487		Client: Insite Towers, LLC	Drawn by: mhlinka
Phone: 561-282-2676		Code: TIA-222-H	Date: 11/20/20
FAX:		Path:	App'd:
Experience Structural Expertise		Scale: NTS	Dwg No. E-1

<p>tnxTower</p> <p>Bennett & Pless 750 Park Commerce Dr #200 Boca Raton, FL 33487 Phone: 561-282-2676 FAX:</p>	Job CT901 Glastonbury	Page 1 of 32
	Project SST Analysis	Date 16:53:47 11/20/20
	Client Insite Towers, LLC	Designed by mhlinka

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 104.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 6.52 ft at the top and 14.65 ft at the base.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower is located in Hartford County, Connecticut.

Tower base elevation above sea level: 330.86 ft.

Basic wind speed of 125 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.5000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Weld together tower sections have flange connections..

Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications..

Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards..

Welds are fabricated with ER-70S-6 electrodes..

Seismic calculations are in accordance with TIA-222-H..

Seismic loads do not control over wind loads..

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

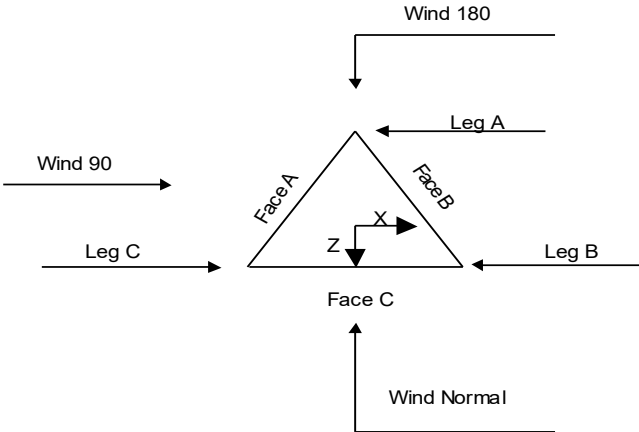
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

<ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile √ Include Bolts In Member Capacity Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric 	<ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r Retention Guys To Initial Tension Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination √ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs 	<ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments
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	Client Insite Towers, LLC	Designed by mhlinka

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
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	104.00-92.00			6.52	1	12.00
T2	92.00-80.00			6.52	1	12.00
T3	80.00-60.00			6.56	1	20.00
T4	60.00-40.00			8.56	1	20.00
T5	40.00-20.00			10.56	1	20.00
T6	20.00-0.00			12.60	1	20.00

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
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	104.00-92.00	4.00	X Brace	No	No	0.0000	0.0000
T2	92.00-80.00	4.00	X Brace	No	No	0.0000	0.0000

tnxTower Bennett & Pless 750 Park Commerce Dr #200 Boca Raton, FL 33487 Phone: 561-282-2676 FAX:	Job	CT901 Glastonbury	Page	3 of 32
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	Client	Insite Towers, LLC	Designed by	mhlinka

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	80.00-60.00	5.00	X Brace	No	Yes	0.0000	0.0000
T4	60.00-40.00	6.67	X Brace	No	No	0.0000	0.0000
T5	40.00-20.00	6.67	X Brace	No	No	0.0000	0.0000
T6	20.00-0.00	6.67	X Brace	No	No	0.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 104.00-92.00	Pipe	P2x.154	A618-50 (50 ksi)	Single Angle	L1 1/2x1 1/2x3/16	A36 (36 ksi)
T2 92.00-80.00	Pipe	P2x.154	A618-50 (50 ksi)	Single Angle	L1 1/2x1 1/2x3/16	A36 (36 ksi)
T3 80.00-60.00	Pipe	P2.5x.203	A618-50 (50 ksi)	Single Angle	L2x2x3/16	A36 (36 ksi)
T4 60.00-40.00	Arbitrary Shape	P2.875x0.203w3/8HP+FF	A618-50 (50 ksi)	Single Angle	L2x2x3/8	A36 (36 ksi)
T5 40.00-20.00	Arbitrary Shape	P2.875x0.203w3/8HP+FF	A618-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x3/8	A36 (36 ksi)
T6 20.00-0.00	Arbitrary Shape	P3.5x0.3w3/8HP+FF	A618-50 (50 ksi)	Single Angle	L2 1/2x2 1/2x3/8	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 104.00-92.00	Single Angle	L2x2x3/16	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T2 92.00-80.00	Single Angle	L2x2x3/16	A36 (36 ksi)	Solid Round		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
T3 80.00-60.00	Equal Angle	L2x2x3/16	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)

Tower Section Geometry (cont'd)

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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
T5 40.00-20.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 20.00-0.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	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 104.00-92.00	Flange	0.6250	4	A325N	A325N	0.5000	1	0.5000	1	0.6250	0	0.6250	0	0.6250	0
T2 92.00-80.00	Flange	0.6250	4	A325N	A325N	0.5000	1	0.5000	1	0.6250	0	0.6250	0	0.6250	0
T3 80.00-60.00	Flange	0.6250	4	A325N	A325N	0.5000	1	0.0000	0	0.6250	0	0.6250	0	0.6250	0
T4 60.00-40.00	Flange	0.6250	4	A325N	A325N	0.5000	1	0.0000	0	0.6250	0	0.6250	0	0.6250	0
T5 40.00-20.00	Flange	0.7500	4	A490N	A325N	0.5000	1	0.0000	0	0.6250	0	0.6250	0	0.6250	0
T6 20.00-0.00	Flange	0.8750	4	A354-BC	A325N	0.5000	1	0.0000	0	0.6250	0	0.6250	0	0.6250	0

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 plf
1/2 (Town of Glastonbury)	A	No	No	Ar (CaAa)	73.00 - 6.00	-8.0000	0.27	1	1	0.5000	0.5800		0.25
1/2 (Town of Glastonbury)	A	No	No	Ar (CaAa)	79.00 - 6.00	-8.0000	0.26	1	1	0.5000	0.5800		0.25
Feedline Ladder (Tower)	B	No	No	Ar (CaAa)	65.00 - 6.00	0.0000	0.4	1	1	0.5000	1.5000		3.66
Feedline Ladder (Tower)	A	No	No	Ar (CaAa)	100.00 - 6.00	0.0000	0.2	1	1	0.5000	1.5000		3.66
LDF7-50A (1 5/8 FOAM) (AT&T)	A	No	No	Ar (CaAa)	88.00 - 6.00	-8.0000	0.2	3	3	0.5000	1.9800		0.82
LDF7-50A (1 5/8 FOAM) (AT&T)	A	No	No	Ar (CaAa)	88.00 - 6.00	-4.0000	0.43	3	1	0.5000	1.9800		0.82
LDF7-50A (1	B	No	No	Ar (CaAa)	88.00 - 6.00	-4.0000	0.43	3	3	0.5000	1.9800		0.82

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	Client	Insite Towers, LLC	Designed by	mhlinka

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 plf
5/8 FOAM) (AT&T)													
LDF7-50A (1 5/8 FOAM) (AT&T)	C	No	No	Ar (CaAa)	88.00 - 6.00	-4.0000	0.43	3	3	0.5000	1.9800		0.82
Hybrid Flex (1 5/8 Fiber) (T-Mobile)	B	No	No	Ar (CaAa)	65.00 - 6.00	0.0000	0.43	3	3	0.5000	1.9800		0.82
AVA5-50(7/8") (T-Mobile)	B	No	No	Ar (CaAa)	65.00 - 6.00	0.0000	0.4	6	3	0.5000	1.1020		0.30
LDF7-50A (1 5/8 FOAM) (Verizon)	A	No	No	Ar (CaAa)	100.00 - 6.00	-2.0000	0.2	6	6	0.5000	1.9800		0.82
1 5/8 Hybrid Flex (1.98" 1.3lbs) (Verizon)	A	No	No	Ar (CaAa)	100.00 - 6.00	-2.0000	0.2	1	1	1.9800	1.9800		1.30

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T1	104.00-92.00	A	0.000	0.000	12.288	0.000	0.08
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T2	92.00-80.00	A	0.000	0.000	27.936	0.000	0.16
		B	0.000	0.000	4.752	0.000	0.02
		C	0.000	0.000	4.752	0.000	0.02
T3	80.00-60.00	A	0.000	0.000	56.336	0.000	0.30
		B	0.000	0.000	18.906	0.000	0.09
		C	0.000	0.000	11.880	0.000	0.05
T4	60.00-40.00	A	0.000	0.000	56.800	0.000	0.31
		B	0.000	0.000	39.984	0.000	0.21
		C	0.000	0.000	11.880	0.000	0.05
T5	40.00-20.00	A	0.000	0.000	56.800	0.000	0.31
		B	0.000	0.000	39.984	0.000	0.21
		C	0.000	0.000	11.880	0.000	0.05
T6	20.00-0.00	A	0.000	0.000	39.760	0.000	0.21
		B	0.000	0.000	27.989	0.000	0.15
		C	0.000	0.000	8.316	0.000	0.03

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} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T1	104.00-92.00	A	1.672	0.000	0.000	26.644	0.000	0.41
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T2	92.00-80.00	A	1.651	0.000	0.000	62.826	0.000	0.94
		B		0.000	0.000	11.523	0.000	0.14

tnxTower Bennett & Pless 750 Park Commerce Dr #200 Boca Raton, FL 33487 Phone: 561-282-2676 FAX:	Job	CT901 Glastonbury	Page	7 of 32
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	Client	Insite Towers, LLC	Designed by	mhlinka

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T3	80.00-60.00	C	1.617	0.000	0.000	11.523	0.000	0.14
		A		0.000	0.000	135.191	0.000	1.96
		B		0.000	0.000	44.093	0.000	0.56
T4	60.00-40.00	C	1.564	0.000	0.000	28.582	0.000	0.34
		A		0.000	0.000	136.334	0.000	1.92
		B		0.000	0.000	89.317	0.000	1.16
T5	40.00-20.00	C	1.486	0.000	0.000	28.222	0.000	0.33
		A		0.000	0.000	133.561	0.000	1.82
		B		0.000	0.000	87.413	0.000	1.10
T6	20.00-0.00	C	1.331	0.000	0.000	27.699	0.000	0.32
		A		0.000	0.000	89.646	0.000	1.14
		B		0.000	0.000	58.549	0.000	0.70
		C		0.000	0.000	18.665	0.000	0.20

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
T1	104.00-92.00	-2.2111	-8.0595	-2.5443	-7.8586
T2	92.00-80.00	-3.4417	-9.2836	-3.9400	-8.8710
T3	80.00-60.00	-1.8354	-8.1231	-2.2541	-8.7288
T4	60.00-40.00	2.9780	-6.5486	3.0776	-7.2439
T5	40.00-20.00	3.0664	-7.4295	3.1827	-8.4399
T6	20.00-0.00	2.6408	-6.9416	2.6870	-8.0605

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	5	Feedline Ladder	92.00 - 100.00	1.0000	1.0000
T1	16	LDF7-50A (1 5/8 FOAM)	92.00 - 100.00	1.0000	1.0000
T1	17	1 5/8 Hybrid Flex (1.98" 1.3lbs)	92.00 - 100.00	1.0000	1.0000
T2	5	Feedline Ladder	80.00 - 92.00	1.0000	1.0000
T2	7	LDF7-50A (1 5/8 FOAM)	80.00 - 88.00	1.0000	1.0000
T2	8	LDF7-50A (1 5/8 FOAM)	80.00 - 88.00	1.0000	1.0000
T2	9	LDF7-50A (1 5/8 FOAM)	80.00 - 88.00	1.0000	1.0000
T2	10	LDF7-50A (1 5/8 FOAM)	80.00 - 88.00	1.0000	1.0000
T2	16	LDF7-50A (1 5/8 FOAM)	80.00 - 92.00	1.0000	1.0000
T2	17	1 5/8 Hybrid Flex (1.98" 1.3lbs)	80.00 - 92.00	1.0000	1.0000
T3	1	1/2	60.00 - 73.00	1.0000	1.0000
T3	2	1/2	60.00 - 79.00	1.0000	1.0000
T3	3	Feedline Ladder	60.00 - 65.00	1.0000	1.0000
T3	5	Feedline Ladder	60.00 - 80.00	1.0000	1.0000
T3	7	LDF7-50A (1 5/8 FOAM)	60.00 - 80.00	1.0000	1.0000
T3	8	LDF7-50A (1 5/8 FOAM)	60.00 - 80.00	1.0000	1.0000
T3	9	LDF7-50A (1 5/8 FOAM)	60.00 - 80.00	1.0000	1.0000
T3	10	LDF7-50A (1 5/8 FOAM)	60.00 - 80.00	1.0000	1.0000
T3	11	Hybrid Flex (1 5/8 Fiber)	60.00 - 65.00	1.0000	1.0000

tnxTower Bennett & Pless 750 Park Commerce Dr #200 Boca Raton, FL 33487 Phone: 561-282-2676 FAX:	Job	CT901 Glastonbury	Page	8 of 32
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	Client	Insite Towers, LLC	Designed by	mhlinka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T3	13	AVA5-50(7/8")	60.00 - 65.00	1.0000	1.0000
T3	16	LDF7-50A (1 5/8 FOAM)	60.00 - 80.00	1.0000	1.0000
T3	17	1 5/8 Hybrid Flex (1.98" 1.3lbs)	60.00 - 80.00	1.0000	1.0000
T4	1	1/2	40.00 - 60.00	1.0000	1.0000
T4	2	1/2	40.00 - 60.00	1.0000	1.0000
T4	3	Feedline Ladder	40.00 - 60.00	1.0000	1.0000
T4	5	Feedline Ladder	40.00 - 60.00	1.0000	1.0000
T4	7	LDF7-50A (1 5/8 FOAM)	40.00 - 60.00	1.0000	1.0000
T4	8	LDF7-50A (1 5/8 FOAM)	40.00 - 60.00	1.0000	1.0000
T4	9	LDF7-50A (1 5/8 FOAM)	40.00 - 60.00	1.0000	1.0000
T4	10	LDF7-50A (1 5/8 FOAM)	40.00 - 60.00	1.0000	1.0000
T4	11	Hybrid Flex (1 5/8 Fiber)	40.00 - 60.00	1.0000	1.0000
T4	13	AVA5-50(7/8")	40.00 - 60.00	1.0000	1.0000
T4	16	LDF7-50A (1 5/8 FOAM)	40.00 - 60.00	1.0000	1.0000
T4	17	1 5/8 Hybrid Flex (1.98" 1.3lbs)	40.00 - 60.00	1.0000	1.0000
T5	1	1/2	20.00 - 40.00	1.0000	1.0000
T5	2	1/2	20.00 - 40.00	1.0000	1.0000
T5	3	Feedline Ladder	20.00 - 40.00	1.0000	1.0000
T5	5	Feedline Ladder	20.00 - 40.00	1.0000	1.0000
T5	7	LDF7-50A (1 5/8 FOAM)	20.00 - 40.00	1.0000	1.0000
T5	8	LDF7-50A (1 5/8 FOAM)	20.00 - 40.00	1.0000	1.0000
T5	9	LDF7-50A (1 5/8 FOAM)	20.00 - 40.00	1.0000	1.0000
T5	10	LDF7-50A (1 5/8 FOAM)	20.00 - 40.00	1.0000	1.0000
T5	11	Hybrid Flex (1 5/8 Fiber)	20.00 - 40.00	1.0000	1.0000
T5	13	AVA5-50(7/8")	20.00 - 40.00	1.0000	1.0000
T5	16	LDF7-50A (1 5/8 FOAM)	20.00 - 40.00	1.0000	1.0000
T5	17	1 5/8 Hybrid Flex (1.98" 1.3lbs)	20.00 - 40.00	1.0000	1.0000
T6	1	1/2	6.00 - 20.00	1.0000	1.0000
T6	2	1/2	6.00 - 20.00	1.0000	1.0000
T6	3	Feedline Ladder	6.00 - 20.00	1.0000	1.0000
T6	5	Feedline Ladder	6.00 - 20.00	1.0000	1.0000
T6	7	LDF7-50A (1 5/8 FOAM)	6.00 - 20.00	1.0000	1.0000
T6	8	LDF7-50A (1 5/8 FOAM)	6.00 - 20.00	1.0000	1.0000
T6	9	LDF7-50A (1 5/8 FOAM)	6.00 - 20.00	1.0000	1.0000
T6	10	LDF7-50A (1 5/8 FOAM)	6.00 - 20.00	1.0000	1.0000
T6	11	Hybrid Flex (1 5/8 Fiber)	6.00 - 20.00	1.0000	1.0000
T6	13	AVA5-50(7/8")	6.00 - 20.00	1.0000	1.0000
T6	16	LDF7-50A (1 5/8 FOAM)	6.00 - 20.00	1.0000	1.0000
T6	17	1 5/8 Hybrid Flex (1.98" 1.3lbs)	6.00 - 20.00	1.0000	1.0000

User Defined Loads - Seismic

Description	Elevation	Offset From Centroid	Azimuth Angle	E_v	E_{hx}	E_{hz}	E_h
	ft	ft	°	K	K	K	K
CCISeismic Tower Section 1	98.00	0.00	0.0000	0.02	0.00	0.00	0.05
CCISeismic Tower Section 2	86.00	0.00	0.0000	0.02	0.00	0.00	0.04
CCISeismic Tower Section 3	70.00	0.00	0.0000	0.05	0.00	0.00	0.09
CCISeismic Tower Section 4	50.00	0.00	0.0000	0.09	0.00	0.00	0.13
CCISeismic Tower Section 5	30.00	0.00	0.0000	0.11	0.00	0.00	0.09

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	Client	Insite Towers, LLC	Designed by	mhlinka

<i>Description</i>	<i>Elevation</i>	<i>Offset From Centroid</i>	<i>Azimuth Angle</i>	<i>E_v</i>	<i>E_{lx}</i>	<i>E_{lz}</i>	<i>E_h</i>
	<i>ft</i>	<i>ft</i>	<i>°</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>
CCISeismic Tower Section 6	10.00	0.00	0.0000	0.14	0.00	0.00	0.04
CCISeismic b&p database T-Frame Sector	88.00	0.00	0.0000	0.02	0.00	0.00	0.05
CCISeismic b&p database T-Frame Sector	88.00	0.00	0.0000	0.02	0.00	0.00	0.05
CCISeismic b&p database T-Frame Sector	88.00	0.00	0.0000	0.02	0.00	0.00	0.05
CCISeismic b&p database DB806-XT	79.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic b&p database PR-950	73.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic b&p database PiROD 6' Side Mount Standoff	73.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic ericsson AIR 21	65.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic ericsson AIR 21	65.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic ericsson AIR 21	65.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database AIR32	65.00	0.00	0.0000	0.01	0.00	0.00	0.01
CCISeismic b&p database AIR32	65.00	0.00	0.0000	0.01	0.00	0.00	0.01
CCISeismic b&p database AIR32	65.00	0.00	0.0000	0.01	0.00	0.00	0.01
APXVAARR24-43-U-NA20	65.00	0.00	0.0000	0.01	0.00	0.00	0.01
CCISeismic b&p database APXVAARR24-43-U-NA20	65.00	0.00	0.0000	0.01	0.00	0.00	0.01
CCISeismic b&p database APXVAARR24-43-U-NA20	65.00	0.00	0.0000	0.01	0.00	0.00	0.01
CCISeismic b&p database 4449 B71-B12	65.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database 4449 B71-B12	65.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database 4449 B71-B12	65.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Sector Mount [SM 403-3] w Mod	65.00	0.00	0.0000	0.04	0.00	0.00	0.07
CCISeismic b&p database Powerwave P65-17-XLH-RR	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Powerwave P65-17-XLH-RR	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Powerwave P65-17-XLH-RR	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database KMW AX-X-CD-1665-OOT	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database KMW AX-X-CD-1665-OOT	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database KMW AX-X-CD-1665-OOT	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Andrew SBNH-1D6565C	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Andrew SBNH-1D6565C	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Andrew SBNH-1D6565C	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (2) b&p database TMA	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (2) b&p database TMA	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (2) b&p database TMA	88.00	0.00	0.0000	0.00	0.00	0.00	0.01

<p>tnxTower</p> <p>Bennett & Pless 750 Park Commerce Dr #200 Boca Raton, FL 33487 Phone: 561-282-2676 FAX:</p>	Job	CT901 Glastonbury	Page	10 of 32
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<i>Description</i>	<i>Elevation</i>	<i>Offset From Centroid</i>	<i>Azimuth Angle</i>	<i>E_v</i>	<i>E_{rx}</i>	<i>E_{hz}</i>	<i>E_h</i>
	<i>ft</i>	<i>ft</i>	<i>°</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>
CCISeismic (2) ericsson RRU-11	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (2) ericsson RRU-11	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (2) ericsson RRU-11	88.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Demarcation Box DC6-4860-188F	88.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (2) b&p database Andrew SBNHH-1D65B	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (2) b&p database Andrew SBNHH-1D65B	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (2) b&p database Andrew SBNHH-1D65B	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic LNX-8514DS-A1M	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic LNX-8514DS-A1M	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic LNX-8514DS-A1M	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic LNX-8514DS-A1M	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic TBD nL Sub6 Antenna	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic TBD nL Sub6 Antenna	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic TBD nL Sub6 Antenna	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Samsung B5/B13 RRH-BR04C	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Samsung B5/B13 RRH-BR04C	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Samsung B5/B13 RRH-BR04C	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Samsung B2/B66A RRH-BR049	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Samsung B2/B66A RRH-BR049	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database Samsung B2/B66A RRH-BR049	102.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic b&p database RFS DB-B1-12C-24AB-0Z	102.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic b&p database Site Pro 1 VFA12-HD	102.00	0.00	0.0000	0.03	0.00	0.00	0.08
CCISeismic b&p database Site Pro 1 VFA12-HD	102.00	0.00	0.0000	0.03	0.00	0.00	0.08
CCISeismic b&p database Site Pro 1 VFA12-HD	102.00	0.00	0.0000	0.03	0.00	0.00	0.08
CCISeismic 1/2 From 6 to 73 (60ft to73ft)	66.50	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic 1/2 From 6 to 73 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic 1/2 From 6 to 73 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic 1/2 From 6 to 73 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic 1/2 From 6 to 73 (60ft to73ft)	66.50	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic 1/2 From 6 to 73 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic 1/2 From 6 to 73	30.00	0.00	0.0000	0.00	0.00	0.00	0.00

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<i>Description</i>	<i>Elevation</i>	<i>Offset From Centroid</i>	<i>Azimuth Angle</i>	<i>E_v</i>	<i>E_{hx}</i>	<i>E_{hz}</i>	<i>E_h</i>
	<i>ft</i>	<i>ft</i>	<i>°</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>
(20ft to40ft)							
CCISEismic 1/2 From 6 to 73 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic b&p database Feedline Ladder From 6 to 79 (60ft to79ft)	69.50	0.00	0.0000	0.00	0.00	0.00	0.01
CCISEismic b&p database Feedline Ladder From 6 to 79 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic b&p database Feedline Ladder From 6 to 79 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic b&p database Feedline Ladder From 6 to 79 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic b&p database Feedline Ladder From 6 to 100 (92ft to100ft)	96.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic b&p database Feedline Ladder From 6 to 100 (80ft to92ft)	86.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic b&p database Feedline Ladder From 6 to 100 (60ft to80ft)	70.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISEismic b&p database Feedline Ladder From 6 to 100 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic b&p database Feedline Ladder From 6 to 100 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic b&p database Feedline Ladder From 6 to 100 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 104 (92ft to104ft)	98.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 104 (80ft to92ft)	86.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 104 (60ft to80ft)	70.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 104 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 104 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 104 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (80ft to88ft)	84.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (60ft to80ft)	70.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISEismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00

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Project	SST Analysis	Date	16:53:47 11/20/20
Client	Insite Towers, LLC	Designed by	mhlinka

Description	Elevation	Offset From Centroid	Azimuth Angle	E_v	E_{hx}	E_{hz}	E_h
	ft	ft	°	K	K	K	K
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (80ft to88ft)	84.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (60ft to80ft)	70.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (80ft to88ft)	84.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (60ft to80ft)	70.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database Hybrid Flex (1 5/8 Fiber) From 6 to 88 (80ft to88ft)	84.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database Hybrid Flex (1 5/8 Fiber) From 6 to 88 (60ft to80ft)	70.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database Hybrid Flex (1 5/8 Fiber) From 6 to 88 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database Hybrid Flex (1 5/8 Fiber) From 6 to 88 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (3) b&p database Hybrid Flex (1 5/8 Fiber) From 6 to 88 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (6) andrew AVA5-50(7/8") From 6 to 65 (60ft to65ft)	62.50	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (6) andrew AVA5-50(7/8") From 6 to 65 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (6) andrew AVA5-50(7/8") From 6 to 65 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00

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Description	Elevation	Offset From Centroid	Azimuth Angle	E_v	E_{hx}	E_{hz}	E_h
	ft	ft	°	K	K	K	K
CCISeismic (6) andrew AVA5-50(7/8") From 6 to 65 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (6) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 102 (92ft to102ft)	97.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (6) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 102 (80ft to92ft)	86.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (6) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 102 (60ft to80ft)	70.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (6) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 102 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (6) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 102 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (6) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 102 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (6) b&p database 1 5/8 Hybrid Flex (1.98" 1.3lbs) From 6 to 100 (92ft to100ft)	96.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (6) b&p database 1 5/8 Hybrid Flex (1.98" 1.3lbs) From 6 to 100 (80ft to92ft)	86.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (6) b&p database 1 5/8 Hybrid Flex (1.98" 1.3lbs) From 6 to 100 (60ft to80ft)	70.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (6) b&p database 1 5/8 Hybrid Flex (1.98" 1.3lbs) From 6 to 100 (40ft to60ft)	50.00	0.00	0.0000	0.00	0.00	0.00	0.01
CCISeismic (6) b&p database 1 5/8 Hybrid Flex (1.98" 1.3lbs) From 6 to 100 (20ft to40ft)	30.00	0.00	0.0000	0.00	0.00	0.00	0.00
CCISeismic (6) b&p database 1 5/8 Hybrid Flex (1.98" 1.3lbs) From 6 to 100 (6ft to20ft)	13.00	0.00	0.0000	0.00	0.00	0.00	0.00

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	$C_A A_A$ Front	$C_A A_A$ Side	Weight	
			ft ft ft	°	ft	ft ²	ft ²	K	

T-Frame Sector (AT&T)	A	From Leg	4.00 0.00 0.00	0.0000	88.00	No Ice 1/2" Ice 1" Ice	9.00 9.30 8.60	9.00 9.30 8.60	0.47 0.61 0.75
T-Frame Sector	B	From Leg	4.00	0.0000	88.00	No Ice 2" Ice	9.00 9.20	9.00 9.20	0.47 1.03

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	CAAA Front ft ²	CAAA Side ft ²	Weight K
			Horz Lateral ft	Vert ft					
(AT&T)			0.00			1/2" Ice	9.30	9.30	0.61
			0.00			1" Ice	8.60	8.60	0.75
						2" Ice	9.20	9.20	1.03
T-Frame Sector (AT&T)	C	From Leg	4.00	0.0000	88.00	No Ice	9.00	9.00	0.47
			0.00			1/2" Ice	9.30	9.30	0.61
			0.00			1" Ice	8.60	8.60	0.75
						2" Ice	9.20	9.20	1.03
DB806-XT (Town of Glastonbury)	B	From Leg	4.00	0.0000	79.00	No Ice	1.14	1.14	0.02
			0.00			1/2" Ice	1.68	1.68	0.03
			0.00			1" Ice	2.22	2.22	0.04
						2" Ice	3.30	3.30	0.06
PR-950 (Town of Glastonbury)	B	From Leg	4.00	0.0000	73.00	No Ice	6.35	6.35	0.04
			0.00			1/2" Ice	11.43	11.43	0.05
			0.00			1" Ice	16.51	16.51	0.06
						2" Ice	26.67	26.67	0.08
PiROD 6' Side Mount Standoff (Town of Glastonbury)	B	From Leg	4.00	0.0000	73.00	No Ice	4.97	4.97	0.07
			0.00			1/2" Ice	6.12	6.12	0.13
			0.00			1" Ice	7.27	7.27	0.19
						2" Ice	9.57	9.57	0.31

AIR 21 (T-Mobile)	A	From Leg	3.00	0.0000	65.00	No Ice	6.05	4.36	0.09
			0.00			1/2" Ice	6.42	4.70	0.13
			0.00			1" Ice	6.80	5.06	0.18
						2" Ice	7.57	5.79	0.29
AIR 21 (T-Mobile)	B	From Leg	3.00	0.0000	65.00	No Ice	6.05	4.36	0.09
			0.00			1/2" Ice	6.42	4.70	0.13
			0.00			1" Ice	6.80	5.06	0.18
						2" Ice	7.57	5.79	0.29
AIR 21 (T-Mobile)	C	From Leg	3.00	0.0000	65.00	No Ice	6.05	4.36	0.09
			0.00			1/2" Ice	6.42	4.70	0.13
			0.00			1" Ice	6.80	5.06	0.18
						2" Ice	7.57	5.79	0.29
AIR32 (T-Mobile)	A	From Leg	3.00	0.0000	65.00	No Ice	6.51	4.71	0.13
			0.00			1/2" Ice	6.89	5.07	0.18
			0.00			1" Ice	7.27	5.43	0.23
						2" Ice	8.06	6.18	0.35
AIR32 (T-Mobile)	B	From Leg	3.00	0.0000	65.00	No Ice	6.51	4.71	0.13
			0.00			1/2" Ice	6.89	5.07	0.18
			0.00			1" Ice	7.27	5.43	0.23
						2" Ice	8.06	6.18	0.35
AIR32 (T-Mobile)	C	From Leg	3.00	0.0000	65.00	No Ice	6.51	4.71	0.13
			0.00			1/2" Ice	6.89	5.07	0.18
			0.00			1" Ice	7.27	5.43	0.23
						2" Ice	8.06	6.18	0.35
APXVAARR24-43-U-NA20 (T-Mobile)	A	From Leg	3.00	0.0000	65.00	No Ice	20.24	8.89	0.13
			0.00			1/2" Ice	20.89	9.49	0.24
			0.00			1" Ice	21.54	10.09	0.36
						2" Ice	22.87	11.33	0.63
APXVAARR24-43-U-NA20 (T-Mobile)	B	From Leg	3.00	0.0000	65.00	No Ice	20.24	8.89	0.13
			0.00			1/2" Ice	20.89	9.49	0.24
			0.00			1" Ice	21.54	10.09	0.36
						2" Ice	22.87	11.33	0.63
APXVAARR24-43-U-NA20 (T-Mobile)	C	From Leg	3.00	0.0000	65.00	No Ice	20.24	8.89	0.13
			0.00			1/2" Ice	20.89	9.49	0.24
			0.00			1" Ice	21.54	10.09	0.36
						2" Ice	22.87	11.33	0.63
4449 B71-B12	C	From Leg	3.00	0.0000	65.00	No Ice	1.63	1.00	0.08

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
(T-Mobile)			0.00			1/2" Ice	1.79	1.13	0.09
			0.00			1" Ice	1.95	1.27	0.11
						2" Ice	2.31	1.56	0.16
4449 B71-B12 (T-Mobile)	C	From Leg	3.00		0.0000	No Ice	1.63	1.00	0.08
			0.00			1/2" Ice	1.79	1.13	0.09
			0.00			1" Ice	1.95	1.27	0.11
						2" Ice	2.31	1.56	0.16
4449 B71-B12 (T-Mobile)	C	From Leg	3.00		0.0000	No Ice	1.63	1.00	0.08
			0.00			1/2" Ice	1.79	1.13	0.09
			0.00			1" Ice	1.95	1.27	0.11
						2" Ice	2.31	1.56	0.16
Sector Mount [SM 403-3] w Mod (T-Mobile)	B	From Leg	0.00		0.0000	No Ice	23.00	23.00	0.87
			0.00			1/2" Ice	30.00	30.00	1.27
			0.00			1" Ice	40.00	40.00	1.66
						2" Ice	55.00	55.00	2.45

Powerwave P65-17-XLH-RR (AT&T)	A	From Leg	0.00		0.0000	No Ice	11.47	6.80	0.06
			0.00			1/2" Ice	12.08	7.38	0.12
			0.00			1" Ice	12.71	7.98	0.19
						2" Ice	13.95	9.18	0.35
Powerwave P65-17-XLH-RR (AT&T)	B	From Leg	0.00		0.0000	No Ice	11.47	6.80	0.06
			0.00			1/2" Ice	12.08	7.38	0.12
			0.00			1" Ice	12.71	7.98	0.19
						2" Ice	13.95	9.18	0.35
Powerwave P65-17-XLH-RR (AT&T)	C	From Leg	0.00		0.0000	No Ice	11.47	6.80	0.06
			0.00			1/2" Ice	12.08	7.38	0.12
			0.00			1" Ice	12.71	7.98	0.19
						2" Ice	13.95	9.18	0.35
KMW AX-X-CD-1665-OOT (AT&T)	A	From Leg	0.00		0.0000	No Ice	8.50	6.30	0.07
			0.00			1/2" Ice	9.15	7.48	0.09
			0.00			1" Ice	9.80	8.66	0.11
						2" Ice	11.10	11.02	0.15
KMW AX-X-CD-1665-OOT (AT&T)	B	From Leg	0.00		0.0000	No Ice	8.50	6.30	0.07
			0.00			1/2" Ice	9.15	7.48	0.09
			0.00			1" Ice	9.80	8.66	0.11
						2" Ice	11.10	11.02	0.15
KMW AX-X-CD-1665-OOT (AT&T)	C	From Leg	0.00		0.0000	No Ice	8.50	6.30	0.07
			0.00			1/2" Ice	9.15	7.48	0.09
			0.00			1" Ice	9.80	8.66	0.11
						2" Ice	11.10	11.02	0.15
Andrew SBNH-1D6565C (AT&T)	A	From Leg	0.00		0.0000	No Ice	11.64	9.84	0.09
			0.00			1/2" Ice	12.37	11.37	0.18
			0.00			1" Ice	13.09	12.89	0.27
						2" Ice	14.53	15.94	0.44
Andrew SBNH-1D6565C (AT&T)	B	From Leg	0.00		0.0000	No Ice	11.64	9.84	0.09
			0.00			1/2" Ice	12.37	11.37	0.18
			0.00			1" Ice	13.09	12.89	0.27
						2" Ice	14.53	15.94	0.44
Andrew SBNH-1D6565C (AT&T)	C	From Leg	0.00		0.0000	No Ice	11.64	9.84	0.09
			0.00			1/2" Ice	12.37	11.37	0.18
			0.00			1" Ice	13.09	12.89	0.27
						2" Ice	14.53	15.94	0.44
(2) TMA (AT&T)	A	From Leg	0.00		0.0000	No Ice	1.95	0.52	0.03
			0.00			1/2" Ice	2.13	0.64	0.04
			0.00			1" Ice	2.31	0.76	0.05
						2" Ice	2.67	1.00	0.07
(2) TMA	B	From Leg	0.00		0.0000	No Ice	1.95	0.52	0.03

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	Client		Insite Towers, LLC					Designed by		mhlinka

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment °	Placement ft	CAAA Front ft ²	CAAA Side ft ²	Weight K
			Horz ft	Lateral ft	Vert ft					
(AT&T)			0.00				1/2" Ice 2.13	0.64	0.04	
			0.00				1" Ice 2.31	0.76	0.05	
							2" Ice 2.67	1.00	0.07	
(2) TMA (AT&T)	C	From Leg	0.00	0.0000	88.00		No Ice 1.95	0.52	0.03	
			0.00				1/2" Ice 2.13	0.64	0.04	
			0.00				1" Ice 2.31	0.76	0.05	
							2" Ice 2.67	1.00	0.07	
(2) RRU-11 (AT&T)	A	From Leg	0.00	0.0000	88.00		No Ice 2.87	1.22	0.05	
			0.00				1/2" Ice 3.08	1.37	0.07	
			0.00				1" Ice 3.30	1.53	0.10	
							2" Ice 3.76	1.88	0.15	
(2) RRU-11 (AT&T)	B	From Leg	0.00	0.0000	88.00		No Ice 2.87	1.22	0.05	
			0.00				1/2" Ice 3.08	1.37	0.07	
			0.00				1" Ice 3.30	1.53	0.10	
							2" Ice 3.76	1.88	0.15	
(2) RRU-11 (AT&T)	C	From Leg	0.00	0.0000	88.00		No Ice 2.87	1.22	0.05	
			0.00				1/2" Ice 3.08	1.37	0.07	
			0.00				1" Ice 3.30	1.53	0.10	
							2" Ice 3.76	1.88	0.15	
Demarcation Box DC6-4860-188F (AT&T)	C	From Leg	0.00	0.0000	88.00		No Ice 4.45	0.89	0.02	
			0.00				1/2" Ice 4.76	1.04	0.05	
			0.00				1" Ice 5.07	1.19	0.08	
							2" Ice 5.69	1.49	0.14	

(2) Andrew SBNHH-1D65B (Verizon)	A	From Leg	3.00	0.0000	102.00		No Ice 8.08	5.34	0.05	
			0.00				1/2" Ice 8.53	5.79	0.10	
			0.00				1" Ice 9.00	6.26	0.16	
							2" Ice 9.95	7.20	0.29	
(2) Andrew SBNHH-1D65B (Verizon)	B	From Leg	3.00	0.0000	102.00		No Ice 8.08	5.34	0.05	
			0.00				1/2" Ice 8.53	5.79	0.10	
			0.00				1" Ice 9.00	6.26	0.16	
							2" Ice 9.95	7.20	0.29	
(2) Andrew SBNHH-1D65B (Verizon)	C	From Leg	3.00	0.0000	102.00		No Ice 8.08	5.34	0.05	
			0.00				1/2" Ice 8.53	5.79	0.10	
			0.00				1" Ice 9.00	6.26	0.16	
							2" Ice 9.95	7.20	0.29	
LNX-8514DS-A1M (Verizon)	A	From Leg	3.00	0.0000	102.00		No Ice 11.45	7.70	0.05	
			0.00				1/2" Ice 12.06	8.29	0.12	
			0.00				1" Ice 12.69	8.89	0.19	
							2" Ice 14.03	10.11	0.36	
LNX-8514DS-A1M (Verizon)	B	From Leg	3.00	0.0000	102.00		No Ice 11.45	7.70	0.05	
			0.00				1/2" Ice 12.06	8.29	0.12	
			0.00				1" Ice 12.69	8.89	0.19	
							2" Ice 14.03	10.11	0.36	
LNX-8514DS-A1M (Verizon)	C	From Leg	3.00	0.0000	102.00		No Ice 11.45	7.70	0.05	
			0.00				1/2" Ice 12.06	8.29	0.12	
			0.00				1" Ice 12.69	8.89	0.19	
							2" Ice 14.03	10.11	0.36	
TBD nL Sub6 Antenna (Verizon)	A	From Leg	3.00	0.0000	102.00		No Ice 7.20	1.47	0.10	
			0.00				1/2" Ice 7.54	1.70	0.12	
			0.00				1" Ice 7.88	1.94	0.14	
							2" Ice 8.59	2.41	0.19	
TBD nL Sub6 Antenna (Verizon)	A	From Leg	3.00	0.0000	102.00		No Ice 7.20	1.47	0.10	
			0.00				1/2" Ice 7.54	1.70	0.12	
			0.00				1" Ice 7.88	1.94	0.14	
							2" Ice 8.59	2.41	0.19	
TBD nL Sub6 Antenna	A	From Leg	3.00	0.0000	102.00		No Ice 7.20	1.47	0.10	

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	Client	Insite Towers, LLC	Designed by	mhlinka

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
(Verizon)			0.00			1/2" Ice	7.54	1.70	0.12
			0.00			1" Ice	7.88	1.94	0.14
						2" Ice	8.59	2.41	0.19
Samsung B5/B13 RRH-BR04C	A	From Leg	3.00		0.0000	No Ice	1.85	1.01	0.07
(Verizon)			0.00			1/2" Ice	2.02	1.14	0.09
						1" Ice	2.20	1.28	0.11
						2" Ice	2.57	1.58	0.15
Samsung B5/B13 RRH-BR04C	B	From Leg	3.00		0.0000	No Ice	1.85	1.01	0.07
(Verizon)			0.00			1/2" Ice	2.02	1.14	0.09
						1" Ice	2.20	1.28	0.11
						2" Ice	2.57	1.58	0.15
Samsung B5/B13 RRH-BR04C	C	From Leg	3.00		0.0000	No Ice	1.85	1.01	0.07
(Verizon)			0.00			1/2" Ice	2.02	1.14	0.09
						1" Ice	2.20	1.28	0.11
						2" Ice	2.57	1.58	0.15
Samsung B2/B66A RRH-BR049	A	From Leg	3.00		0.0000	No Ice	1.85	1.24	0.08
(Verizon)			0.00			1/2" Ice	2.02	1.38	0.10
						1" Ice	2.20	1.53	0.12
						2" Ice	2.57	1.85	0.17
Samsung B2/B66A RRH-BR049	B	From Leg	3.00		0.0000	No Ice	1.85	1.24	0.08
(Verizon)			0.00			1/2" Ice	2.02	1.38	0.10
						1" Ice	2.20	1.53	0.12
						2" Ice	2.57	1.85	0.17
Samsung B2/B66A RRH-BR049	C	From Leg	3.00		0.0000	No Ice	1.85	1.24	0.08
(Verizon)			0.00			1/2" Ice	2.02	1.38	0.10
						1" Ice	2.20	1.53	0.12
						2" Ice	2.57	1.85	0.17
RFS DB-B1-12C-24AB-0Z	A	From Leg	3.00		0.0000	No Ice	4.06	3.10	0.03
(Verizon)			0.00			1/2" Ice	4.32	3.34	0.07
						1" Ice	4.58	3.58	0.11
						2" Ice	5.14	4.09	0.20
Site Pro 1 VFA12-HD	A	From Leg	0.00		0.0000	No Ice	13.20	9.20	0.66
(Verizon)			0.00			1/2" Ice	19.50	14.60	0.80
						1" Ice	25.80	20.00	0.95
						2" Ice	38.40	30.80	1.24
Site Pro 1 VFA12-HD	B	From Leg	0.00		0.0000	No Ice	13.20	9.20	0.66
(Verizon)			0.00			1/2" Ice	19.50	14.60	0.80
						1" Ice	25.80	20.00	0.95
						2" Ice	38.40	30.80	1.24
Site Pro 1 VFA12-HD	C	From Leg	0.00		0.0000	No Ice	13.20	9.20	0.66
(Verizon)			0.00			1/2" Ice	19.50	14.60	0.80
						1" Ice	25.80	20.00	0.95
						2" Ice	38.40	30.80	1.24

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

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<i>Comb. No.</i>	<i>Description</i>
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
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
51	1.2 Dead+1.0 Ev+1.0 Eh 0 deg
52	0.9 Dead-1.0 Ev+1.0 Eh 0 deg
53	1.2 Dead+1.0 Ev+1.0 Eh 30 deg
54	0.9 Dead-1.0 Ev+1.0 Eh 30 deg
55	1.2 Dead+1.0 Ev+1.0 Eh 60 deg
56	0.9 Dead-1.0 Ev+1.0 Eh 60 deg
57	1.2 Dead+1.0 Ev+1.0 Eh 90 deg
58	0.9 Dead-1.0 Ev+1.0 Eh 90 deg
59	1.2 Dead+1.0 Ev+1.0 Eh 120 deg
60	0.9 Dead-1.0 Ev+1.0 Eh 120 deg
61	1.2 Dead+1.0 Ev+1.0 Eh 150 deg
62	0.9 Dead-1.0 Ev+1.0 Eh 150 deg
63	1.2 Dead+1.0 Ev+1.0 Eh 180 deg
64	0.9 Dead-1.0 Ev+1.0 Eh 180 deg
65	1.2 Dead+1.0 Ev+1.0 Eh 210 deg

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Comb. No.	Description
66	0.9 Dead-1.0 Ev+1.0 Eh 210 deg
67	1.2 Dead+1.0 Ev+1.0 Eh 240 deg
68	0.9 Dead-1.0 Ev+1.0 Eh 240 deg
69	1.2 Dead+1.0 Ev+1.0 Eh 270 deg
70	0.9 Dead-1.0 Ev+1.0 Eh 270 deg
71	1.2 Dead+1.0 Ev+1.0 Eh 300 deg
72	0.9 Dead-1.0 Ev+1.0 Eh 300 deg
73	1.2 Dead+1.0 Ev+1.0 Eh 330 deg
74	0.9 Dead-1.0 Ev+1.0 Eh 330 deg

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	104 - 92	Leg	Max Tension	23	5.25	-0.09	-0.07
			Max. Compression	2	-8.59	-0.00	0.06
			Max. Mx	8	-1.77	1.06	0.00
			Max. My	2	-0.89	-0.01	-1.08
			Max. Vy	8	0.80	-0.50	0.00
			Max. Vx	2	-0.82	-0.00	0.55
		Diagonal	Max Tension	12	2.07	0.00	0.00
			Max. Compression	24	-2.02	0.00	0.00
			Max. Mx	38	0.26	0.02	0.00
			Max. My	24	-2.01	0.00	-0.00
			Max. Vy	27	-0.02	0.02	-0.00
			Max. Vx	24	0.00	0.00	-0.00
		Top Girt	Max Tension	14	0.11	0.00	0.00
			Max. Compression	3	-0.10	0.00	0.00
			Max. Mx	26	-0.00	-0.06	0.00
			Max. My	8	0.01	0.00	0.00
			Max. Vy	26	0.04	0.00	0.00
			Max. Vx	8	-0.00	0.00	0.00
T2	92 - 80	Leg	Max Tension	15	19.80	-0.03	-0.01
			Max. Compression	2	-25.85	0.05	0.00
			Max. Mx	2	-11.77	0.06	0.00
			Max. My	20	-3.21	-0.00	-0.10
			Max. Vy	18	1.26	0.02	-0.01
			Max. Vx	8	1.24	0.00	-0.02
		Diagonal	Max Tension	13	4.09	0.00	0.00
			Max. Compression	24	-4.22	0.00	0.00
			Max. Mx	27	0.74	0.02	-0.00
			Max. My	16	-3.72	-0.00	-0.00
			Max. Vy	27	-0.02	0.02	-0.00
			Max. Vx	16	0.00	0.00	0.00
		Top Girt	Max Tension	6	0.48	0.00	0.00
			Max. Compression	3	-0.34	0.00	0.00
			Max. Mx	26	0.17	-0.06	0.00
			Max. My	31	0.21	0.00	0.00
			Max. Vy	26	0.04	0.00	0.00
			Max. Vx	31	-0.00	0.00	0.00
T3	80 - 60	Leg	Max Tension	15	48.24	0.18	-0.01
			Max. Compression	2	-56.66	-0.06	-0.00
			Max. Mx	2	-47.99	0.36	-0.00
			Max. My	8	-4.31	-0.03	0.31
			Max. Vy	22	-0.82	0.16	-0.02
			Max. Vx	4	-1.17	-0.03	-0.14
		Diagonal	Max Tension	13	5.21	0.02	0.00
			Max. Compression	24	-5.37	0.00	0.00

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft					
T4	60 - 40	Secondary Horizontal	Max. Mx	31	1.09	0.04	-0.00					
			Max. My	10	-3.89	-0.01	0.01					
			Max. Vy	31	-0.03	0.04	-0.00					
			Max. Vx	10	0.00	0.00	0.00					
			Max Tension	2	0.98	0.00	0.00					
			Max. Compression	2	-0.98	0.00	-0.00					
		Leg		Leg	Max. Mx	35	0.08	0.03	0.00			
					Max. My	8	-0.27	0.01	0.01			
					Max. Vy	35	0.03	0.03	0.00			
					Max. Vx	30	-0.00	0.00	0.00			
					Max Tension	15	78.68	-0.12	0.01			
					Max. Compression	2	-90.38	0.20	-0.01			
				Diagonal		Diagonal	Max. Mx	33	7.16	-0.25	0.00	
							Max. My	8	-5.14	-0.02	0.32	
							Max. Vy	10	-0.09	0.21	0.03	
							Max. Vx	8	-0.11	-0.02	0.32	
							Max Tension	24	5.91	0.00	0.00	
							Max. Compression	24	-5.98	0.00	0.00	
T5	40 - 20	Leg	Max. Mx	29	1.01	0.06	-0.01					
			Max. My	31	0.18	0.04	0.01					
			Max. Vy	29	0.05	0.05	0.01					
			Max. Vx	31	0.00	0.00	0.00					
			Max Tension	15	106.79	-0.16	0.01					
			Max. Compression	10	-122.23	0.13	0.02					
		Diagonal		Diagonal	Max. Mx	35	-46.06	0.56	-0.00			
					Max. My	8	-6.97	-0.02	0.40			
					Max. Vy	33	-0.15	-0.40	0.00			
					Max. Vx	8	-0.10	-0.02	0.40			
					Max Tension	24	6.14	0.00	0.00			
					Max. Compression	24	-6.25	0.00	0.00			
					T6	20 - 0	Leg	Max. Mx	29	0.70	0.12	-0.01
								Max. My	37	-2.07	0.10	-0.01
								Max. Vy	29	0.07	0.12	-0.01
								Max. Vx	37	0.00	0.00	0.00
								Max Tension	23	132.45	-0.21	-0.02
								Max. Compression	10	-151.84	-0.00	-0.00
Diagonal		Diagonal	Max. Mx	33			13.30	-0.93	0.00			
			Max. My	8			-8.01	-0.03	0.69			
			Max. Vy	33			-0.28	-0.93	0.00			
			Max. Vx	8			0.16	-0.03	0.69			
			Max Tension	12			6.33	0.00	0.00			
			Max. Compression	24			-6.48	0.00	0.00			
			Max. Mx	29			0.24	0.14	0.01			
			Max. My	37			-2.83	0.13	-0.02			
			Max. Vy	29			0.07	0.14	0.01			
			Max. Vx	37			0.00	0.00	0.00			

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	154.59	15.70	-9.04
	Max. H _x	18	154.59	15.70	-9.04
	Max. H _z	7	-135.57	-14.14	8.14
	Min. Vert	7	-135.57	-14.14	8.14

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Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg B	Min. H _x	7	-135.57	-14.14	8.14
	Min. H _z	18	154.59	15.70	-9.04
	Max. Vert	10	156.54	-15.51	-9.49
	Max. H _x	23	-136.45	13.94	8.58
	Max. H _z	23	-136.45	13.94	8.58
	Min. Vert	23	-136.45	13.94	8.58
Leg A	Min. H _x	10	156.54	-15.51	-9.49
	Min. H _z	10	156.54	-15.51	-9.49
	Max. Vert	2	155.81	0.21	17.99
	Max. H _x	20	7.83	2.86	0.57
	Max. H _z	2	155.81	0.21	17.99
	Min. Vert	15	-136.01	-0.21	-16.18
	Min. H _x	9	6.60	-2.85	0.49
	Min. H _z	15	-136.01	-0.21	-16.18

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	20.36	-0.00	0.00	-1.03	-3.72	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	24.43	0.06	-29.61	-1873.51	-9.71	5.45
0.9 Dead+1.0 Wind 0 deg - No Ice	18.33	0.06	-29.61	-1871.92	-8.58	5.45
1.2 Dead+1.0 Wind 30 deg - No Ice	24.43	13.88	-24.36	-1546.85	-875.88	9.36
0.9 Dead+1.0 Wind 30 deg - No Ice	18.33	13.88	-24.36	-1545.47	-874.17	9.36
1.2 Dead+1.0 Wind 60 deg - No Ice	24.43	24.66	-14.50	-919.19	-1547.64	0.65
0.9 Dead+1.0 Wind 60 deg - No Ice	18.33	24.66	-14.50	-918.25	-1545.48	0.65
1.2 Dead+1.0 Wind 90 deg - No Ice	24.43	29.90	-0.06	-6.49	-1868.15	-10.89
0.9 Dead+1.0 Wind 90 deg - No Ice	18.33	29.90	-0.06	-6.17	-1865.77	-10.88
1.2 Dead+1.0 Wind 120 deg - No Ice	24.43	25.87	15.12	954.19	-1623.08	-11.66
0.9 Dead+1.0 Wind 120 deg - No Ice	18.33	25.87	15.12	953.85	-1620.86	-11.66
1.2 Dead+1.0 Wind 150 deg - No Ice	24.43	14.47	25.52	1624.43	-916.08	-6.40
0.9 Dead+1.0 Wind 150 deg - No Ice	18.33	14.47	25.52	1623.62	-914.34	-6.39
1.2 Dead+1.0 Wind 180 deg - No Ice	24.43	-0.06	28.31	1803.97	0.73	-5.45
0.9 Dead+1.0 Wind 180 deg - No Ice	18.33	-0.06	28.31	1803.04	1.85	-5.45
1.2 Dead+1.0 Wind 210 deg - No Ice	24.43	-13.88	24.36	1544.37	866.91	-9.36
0.9 Dead+1.0 Wind 210 deg - No Ice	18.33	-13.88	24.36	1543.62	867.44	-9.36
1.2 Dead+1.0 Wind 240 deg - No Ice	24.43	-25.79	15.15	950.22	1596.77	-0.65
0.9 Dead+1.0 Wind 240 deg - No Ice	18.33	-25.79	15.15	949.88	1596.81	-0.65

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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
1.2 Dead+1.0 Wind 270 deg - No Ice	24.43	-29.90	0.06	3.95	1859.20	10.89
0.9 Dead+1.0 Wind 270 deg - No Ice	18.33	-29.90	0.06	4.26	1859.07	10.88
1.2 Dead+1.0 Wind 300 deg - No Ice	24.43	-24.74	-14.47	-923.20	1556.03	11.66
0.9 Dead+1.0 Wind 300 deg - No Ice	18.33	-24.74	-14.47	-922.25	1556.09	11.66
1.2 Dead+1.0 Wind 330 deg - No Ice	24.43	-14.47	-25.52	-1626.93	907.11	6.39
0.9 Dead+1.0 Wind 330 deg - No Ice	18.33	-14.47	-25.52	-1625.50	907.61	6.39
1.2 Dead+1.0 Ice+1.0 Temp	61.53	-0.00	0.00	-12.27	-13.55	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	61.53	0.01	-8.12	-518.36	-14.53	2.04
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	61.53	3.96	-6.92	-443.00	-258.72	2.29
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	61.53	6.96	-4.07	-265.05	-443.34	0.42
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	61.53	8.26	-0.01	-13.26	-523.50	-3.22
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	61.53	7.26	4.23	250.54	-462.74	-4.49
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	61.53	4.04	7.07	430.48	-264.57	-2.90
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	61.53	-0.01	7.95	485.30	-12.60	-2.04
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	61.53	-3.96	6.92	418.41	231.59	-2.29
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	61.53	-7.11	4.15	244.70	423.54	-0.42
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	61.53	-8.26	0.01	-11.33	496.36	3.22
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	61.53	-7.12	-4.14	-270.90	428.27	4.49
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	61.53	-4.04	-7.07	-455.07	237.44	2.90
Dead+Wind 0 deg - Service	20.36	0.01	-6.82	-432.22	-4.93	1.26
Dead+Wind 30 deg - Service	20.36	3.20	-5.61	-356.98	-204.40	2.16
Dead+Wind 60 deg - Service	20.36	5.68	-3.34	-212.44	-359.12	0.15
Dead+Wind 90 deg - Service	20.36	6.89	-0.01	-2.24	-432.92	-2.51
Dead+Wind 120 deg - Service	20.36	5.96	3.48	219.00	-376.49	-2.69
Dead+Wind 150 deg - Service	20.36	3.33	5.88	373.35	-213.66	-1.47
Dead+Wind 180 deg - Service	20.36	-0.01	6.52	414.68	-2.53	-1.26
Dead+Wind 210 deg - Service	20.36	-3.20	5.61	354.91	196.95	-2.16
Dead+Wind 240 deg - Service	20.36	-5.94	3.49	218.09	365.05	-0.15
Dead+Wind 270 deg - Service	20.36	-6.89	0.01	0.16	425.47	2.51
Dead+Wind 300 deg - Service	20.36	-5.70	-3.33	-213.35	355.64	2.69
Dead+Wind 330 deg - Service	20.36	-3.33	-5.88	-375.42	206.21	1.47
1.2 Dead+1.0 Ev+1.0 Eh 0 deg	25.30	-0.00	-1.44	-110.93	-4.47	0.00
0.9 Dead-1.0 Ev+1.0 Eh 0 deg	17.46	-0.00	-1.44	-110.52	-3.35	0.00
1.2 Dead+1.0 Ev+1.0 Eh 30 deg	25.30	0.72	-1.25	-96.24	-59.32	0.00
0.9 Dead-1.0 Ev+1.0 Eh 30 deg	17.46	0.72	-1.25	-95.84	-58.15	0.00
1.2 Dead+1.0 Ev+1.0 Eh 60 deg	25.30	1.25	-0.72	-56.09	-99.47	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 60 deg	17.46	1.25	-0.72	-55.73	-98.26	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 90 deg	25.30	1.44	0.00	-1.25	-114.16	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 90 deg	17.46	1.44	0.00	-0.93	-112.94	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 120 deg	25.30	1.25	0.72	53.60	-99.47	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 120 deg	17.46	1.25	0.72	53.86	-98.25	-0.00

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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
1.2 Dead+1.0 Ev+1.0 Eh 150 deg	25.30	0.72	1.25	93.75	-59.32	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 150 deg	17.46	0.72	1.25	93.97	-58.14	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 180 deg	25.30	-0.00	1.44	108.44	-4.47	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 180 deg	17.46	-0.00	1.44	108.65	-3.35	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 210 deg	25.30	-0.72	1.25	93.75	50.37	-0.00
0.9 Dead-1.0 Ev+1.0 Eh 210 deg	17.46	-0.72	1.25	93.97	51.44	-0.00
1.2 Dead+1.0 Ev+1.0 Eh 240 deg	25.30	-1.25	0.72	53.60	90.52	0.00
0.9 Dead-1.0 Ev+1.0 Eh 240 deg	17.46	-1.25	0.72	53.86	91.55	0.00
1.2 Dead+1.0 Ev+1.0 Eh 270 deg	25.30	-1.44	0.00	-1.25	105.21	0.00
0.9 Dead-1.0 Ev+1.0 Eh 270 deg	17.46	-1.44	0.00	-0.93	106.23	0.00
1.2 Dead+1.0 Ev+1.0 Eh 300 deg	25.30	-1.25	-0.72	-56.09	90.52	0.00
0.9 Dead-1.0 Ev+1.0 Eh 300 deg	17.46	-1.25	-0.72	-55.72	91.55	0.00
1.2 Dead+1.0 Ev+1.0 Eh 330 deg	25.30	-0.72	-1.25	-96.24	50.37	0.00
0.9 Dead-1.0 Ev+1.0 Eh 330 deg	17.46	-0.72	-1.25	-95.83	51.44	0.00

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-20.36	0.00	0.00	20.36	-0.00	0.000%
2	0.06	-24.43	-29.61	-0.06	24.43	29.61	0.001%
3	0.06	-18.33	-29.61	-0.06	18.33	29.61	0.001%
4	13.88	-24.43	-24.36	-13.88	24.43	24.36	0.001%
5	13.88	-18.33	-24.36	-13.88	18.33	24.36	0.001%
6	24.66	-24.43	-14.50	-24.66	24.43	14.50	0.001%
7	24.66	-18.33	-14.50	-24.66	18.33	14.50	0.001%
8	29.90	-24.43	-0.06	-29.90	24.43	0.06	0.001%
9	29.90	-18.33	-0.06	-29.90	18.33	0.06	0.001%
10	25.87	-24.43	15.12	-25.87	24.43	-15.12	0.001%
11	25.87	-18.33	15.12	-25.87	18.33	-15.12	0.001%
12	14.47	-24.43	25.52	-14.47	24.43	-25.52	0.002%
13	14.47	-18.33	25.52	-14.47	18.33	-25.52	0.001%
14	-0.06	-24.43	28.31	0.06	24.43	-28.31	0.001%
15	-0.06	-18.33	28.31	0.06	18.33	-28.31	0.001%
16	-13.88	-24.43	24.36	13.88	24.43	-24.36	0.001%
17	-13.88	-18.33	24.36	13.88	18.33	-24.36	0.001%
18	-25.79	-24.43	15.15	25.79	24.43	-15.15	0.001%
19	-25.79	-18.33	15.15	25.79	18.33	-15.15	0.001%
20	-29.90	-24.43	0.06	29.90	24.43	-0.06	0.001%
21	-29.90	-18.33	0.06	29.90	18.33	-0.06	0.001%
22	-24.74	-24.43	-14.47	24.74	24.43	14.47	0.001%
23	-24.74	-18.33	-14.47	24.74	18.33	14.47	0.001%
24	-14.47	-24.43	-25.52	14.47	24.43	25.52	0.002%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
25	-14.47	-18.33	-25.52	14.47	18.33	25.52	0.001%
26	0.00	-61.53	0.00	0.00	61.53	-0.00	0.000%
27	0.01	-61.53	-8.12	-0.01	61.53	8.12	0.000%
28	3.96	-61.53	-6.92	-3.96	61.53	6.92	0.000%
29	6.97	-61.53	-4.07	-6.96	61.53	4.07	0.000%
30	8.26	-61.53	-0.01	-8.26	61.53	0.01	0.000%
31	7.26	-61.53	4.23	-7.26	61.53	-4.23	0.000%
32	4.04	-61.53	7.07	-4.04	61.53	-7.07	0.000%
33	-0.01	-61.53	7.95	0.01	61.53	-7.95	0.000%
34	-3.96	-61.53	6.92	3.96	61.53	-6.92	0.000%
35	-7.11	-61.53	4.15	7.11	61.53	-4.15	0.000%
36	-8.26	-61.53	0.01	8.26	61.53	-0.01	0.000%
37	-7.12	-61.53	-4.14	7.12	61.53	4.14	0.000%
38	-4.04	-61.53	-7.07	4.04	61.53	7.07	0.000%
39	0.01	-20.36	-6.82	-0.01	20.36	6.82	0.000%
40	3.20	-20.36	-5.61	-3.20	20.36	5.61	0.000%
41	5.68	-20.36	-3.34	-5.68	20.36	3.34	0.000%
42	6.89	-20.36	-0.01	-6.89	20.36	0.01	0.000%
43	5.96	-20.36	3.48	-5.96	20.36	-3.48	0.000%
44	3.33	-20.36	5.88	-3.33	20.36	-5.88	0.000%
45	-0.01	-20.36	6.52	0.01	20.36	-6.52	0.000%
46	-3.20	-20.36	5.61	3.20	20.36	-5.61	0.000%
47	-5.94	-20.36	3.49	5.94	20.36	-3.49	0.000%
48	-6.89	-20.36	0.01	6.89	20.36	-0.01	0.000%
49	-5.70	-20.36	-3.33	5.70	20.36	3.33	0.000%
50	-3.33	-20.36	-5.88	3.33	20.36	5.88	0.000%
51	0.00	-25.30	-1.44	0.00	25.30	1.44	0.000%
52	0.00	-17.46	-1.44	0.00	17.46	1.44	0.000%
53	0.72	-25.30	-1.25	-0.72	25.30	1.25	0.000%
54	0.72	-17.46	-1.25	-0.72	17.46	1.25	0.000%
55	1.25	-25.30	-0.72	-1.25	25.30	0.72	0.000%
56	1.25	-17.46	-0.72	-1.25	17.46	0.72	0.000%
57	1.44	-25.30	0.00	-1.44	25.30	-0.00	0.000%
58	1.44	-17.46	0.00	-1.44	17.46	-0.00	0.000%
59	1.25	-25.30	0.72	-1.25	25.30	-0.72	0.000%
60	1.25	-17.46	0.72	-1.25	17.46	-0.72	0.000%
61	0.72	-25.30	1.25	-0.72	25.30	-1.25	0.000%
62	0.72	-17.46	1.25	-0.72	17.46	-1.25	0.000%
63	0.00	-25.30	1.44	0.00	25.30	-1.44	0.000%
64	0.00	-17.46	1.44	0.00	17.46	-1.44	0.000%
65	-0.72	-25.30	1.25	0.72	25.30	-1.25	0.000%
66	-0.72	-17.46	1.25	0.72	17.46	-1.25	0.000%
67	-1.25	-25.30	0.72	1.25	25.30	-0.72	0.000%
68	-1.25	-17.46	0.72	1.25	17.46	-0.72	0.000%
69	-1.44	-25.30	0.00	1.44	25.30	-0.00	0.000%
70	-1.44	-17.46	0.00	1.44	17.46	-0.00	0.000%
71	-1.25	-25.30	-0.72	1.25	25.30	0.72	0.000%
72	-1.25	-17.46	-0.72	1.25	17.46	0.72	0.000%
73	-0.72	-25.30	-1.25	0.72	25.30	1.25	0.000%
74	-0.72	-17.46	-1.25	0.72	17.46	1.25	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001

tnxTower

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2	Yes	8	0.00000001	0.00006540
3	Yes	8	0.00000001	0.00004772
4	Yes	8	0.00000001	0.00006959
5	Yes	8	0.00000001	0.00005188
6	Yes	8	0.00000001	0.00007322
7	Yes	8	0.00000001	0.00005551
8	Yes	8	0.00000001	0.00006901
9	Yes	8	0.00000001	0.00005150
10	Yes	8	0.00000001	0.00006486
11	Yes	8	0.00000001	0.00004737
12	Yes	8	0.00000001	0.00006970
13	Yes	8	0.00000001	0.00005211
14	Yes	8	0.00000001	0.00007365
15	Yes	8	0.00000001	0.00005590
16	Yes	8	0.00000001	0.00006969
17	Yes	8	0.00000001	0.00005211
18	Yes	8	0.00000001	0.00006471
19	Yes	8	0.00000001	0.00004728
20	Yes	8	0.00000001	0.00006891
21	Yes	8	0.00000001	0.00005145
22	Yes	8	0.00000001	0.00007349
23	Yes	8	0.00000001	0.00005573
24	Yes	8	0.00000001	0.00006953
25	Yes	8	0.00000001	0.00005180
26	Yes	6	0.00000001	0.00012889
27	Yes	8	0.00000001	0.00014341
28	Yes	8	0.00000001	0.00014313
29	Yes	8	0.00000001	0.00014282
30	Yes	8	0.00000001	0.00014105
31	Yes	8	0.00000001	0.00013892
32	Yes	8	0.00000001	0.00013711
33	Yes	8	0.00000001	0.00013525
34	Yes	8	0.00000001	0.00013297
35	Yes	8	0.00000001	0.00013357
36	Yes	8	0.00000001	0.00013740
37	Yes	8	0.00000001	0.00014196
38	Yes	8	0.00000001	0.00014339
39	Yes	8	0.00000001	0.00005492
40	Yes	8	0.00000001	0.00005550
41	Yes	8	0.00000001	0.00005596
42	Yes	8	0.00000001	0.00005483
43	Yes	8	0.00000001	0.00005393
44	Yes	8	0.00000001	0.00005491
45	Yes	8	0.00000001	0.00005564
46	Yes	8	0.00000001	0.00005459
47	Yes	8	0.00000001	0.00005358
48	Yes	8	0.00000001	0.00005465
49	Yes	8	0.00000001	0.00005606
50	Yes	8	0.00000001	0.00005563
51	Yes	8	0.00000001	0.00004624
52	Yes	8	0.00000001	0.00003844
53	Yes	8	0.00000001	0.00004680
54	Yes	8	0.00000001	0.00003880
55	Yes	8	0.00000001	0.00004675
56	Yes	8	0.00000001	0.00003885
57	Yes	8	0.00000001	0.00004579
58	Yes	7	0.00000001	0.00014904
59	Yes	8	0.00000001	0.00004441
60	Yes	7	0.00000001	0.00014551
61	Yes	8	0.00000001	0.00004325
62	Yes	7	0.00000001	0.00014358
63	Yes	8	0.00000001	0.00004238
64	Yes	7	0.00000001	0.00014242
65	Yes	8	0.00000001	0.00004172

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66	Yes	7	0.00000001	0.00014089
67	Yes	8	0.00000001	0.00004185
68	Yes	7	0.00000001	0.00014100
69	Yes	8	0.00000001	0.00004299
70	Yes	7	0.00000001	0.00014411
71	Yes	8	0.00000001	0.00004447
72	Yes	7	0.00000001	0.00014769
73	Yes	8	0.00000001	0.00004551
74	Yes	7	0.00000001	0.00014930

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	104 - 92	1.516	39	0.1421	0.0158
T2	92 - 80	1.157	39	0.1357	0.0137
T3	80 - 60	0.828	43	0.1116	0.0098
T4	60 - 40	0.436	43	0.0622	0.0055
T5	40 - 20	0.199	43	0.0424	0.0034
T6	20 - 0	0.055	43	0.0188	0.0017

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
102.00	(2) Andrew SBNHH-1D65B	39	1.456	0.1417	0.0156	213574
98.00	CCISeismic Tower Section 1	39	1.336	0.1404	0.0150	177978
97.00	CCISeismic (6) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 102 (92ft to102ft)	39	1.306	0.1399	0.0148	152552
96.00	CCISeismic b&p database Feedline Ladder From 6 to 100 (92ft to100ft)	39	1.276	0.1393	0.0146	133210
88.00	T-Frame Sector	39	1.041	0.1296	0.0125	41313
86.00	CCISeismic Tower Section 2	39	0.985	0.1257	0.0118	32609
84.00	CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (80ft to88ft)	39	0.930	0.1214	0.0111	26943
79.00	DB806-XT	43	0.804	0.1090	0.0094	21049
73.00	PR-950	43	0.669	0.0927	0.0080	22634
70.00	CCISeismic Tower Section 3	43	0.608	0.0845	0.0073	24011
69.50	CCISeismic b&p database Feedline Ladder From 6 to 79 (60ft to79ft)	43	0.599	0.0832	0.0072	24257
66.50	CCISeismic 1/2 From 6 to 73 (60ft to73ft)	43	0.543	0.0758	0.0066	25846
65.00	AIR 21	43	0.517	0.0723	0.0063	26721
62.50	CCISeismic (6) andrew AVA5-50(7/8") From 6 to 65 (60ft to65ft)	43	0.475	0.0669	0.0059	28322
50.00	CCISeismic Tower Section 4	43	0.303	0.0502	0.0043	41090
30.00	CCISeismic Tower Section 5	43	0.116	0.0312	0.0026	51985
13.00	CCISeismic 1/2 From 6 to 73 (6ft to20ft)	43	0.029	0.0114	0.0011	64211
10.00	CCISeismic Tower Section 6	43	0.021	0.0086	0.0009	83475

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Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	104 - 92	6.513	2	0.5982	0.0688
T2	92 - 80	4.994	2	0.5763	0.0595
T3	80 - 60	3.575	2	0.4798	0.0424
T4	60 - 40	1.881	10	0.2675	0.0240
T5	40 - 20	0.860	10	0.1829	0.0149
T6	20 - 0	0.240	10	0.0811	0.0074

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
102.00	(2) Andrew SBNHH-1D65B	2	6.258	0.5972	0.0676	68151
98.00	CCISeismic Tower Section 1	2	5.750	0.5935	0.0650	56792
97.00	CCISeismic (6) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 102 (92ft to102ft)	2	5.623	0.5919	0.0643	48679
96.00	CCISeismic b&p database Feedline Ladder From 6 to 100 (92ft to100ft)	2	5.497	0.5898	0.0635	42456
88.00	T-Frame Sector	2	4.500	0.5525	0.0543	10783
86.00	CCISeismic Tower Section 2	2	4.258	0.5371	0.0514	8238
84.00	CCISeismic (3) b&p database LDF7-50A (1 5/8 FOAM) From 6 to 88 (80ft to88ft)	2	4.023	0.5196	0.0484	6667
79.00	DB806-XT	2	3.469	0.4690	0.0410	5077
73.00	PR-950	10	2.886	0.4005	0.0347	5385
70.00	CCISeismic Tower Section 3	10	2.624	0.3658	0.0318	5670
69.50	CCISeismic b&p database Feedline Ladder From 6 to 79 (60ft to79ft)	10	2.583	0.3601	0.0314	5721
66.50	CCISeismic 1/2 From 6 to 73 (60ft to73ft)	10	2.342	0.3273	0.0288	6045
65.00	AIR 21	10	2.229	0.3118	0.0276	6221
62.50	CCISeismic (6) andrew AVA5-50(7/8") From 6 to 65 (60ft to65ft)	10	2.049	0.2881	0.0257	6543
50.00	CCISeismic Tower Section 4	10	1.308	0.2164	0.0187	9565
30.00	CCISeismic Tower Section 5	10	0.500	0.1347	0.0112	12033
13.00	CCISeismic 1/2 From 6 to 73 (6ft to20ft)	10	0.125	0.0492	0.0048	14906
10.00	CCISeismic Tower Section 6	10	0.089	0.0370	0.0037	19377

Bolt Design Data

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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	104	Leg	A325N	0.6250	4	1.31	20.34	0.065 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	2.07	6.20	0.333 ✓	1	Member Bearing
		Top Girt	A325N	0.5000	1	0.11	6.20	0.018 ✓	1	Member Bearing
T2	92	Leg	A325N	0.6250	4	4.95	20.34	0.243 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	4.09	6.20	0.659 ✓	1	Member Bearing
		Top Girt	A325N	0.5000	1	0.48	6.20	0.077 ✓	1	Member Bearing
T3	80	Leg	A325N	0.6250	4	12.00	20.34	0.590 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	5.21	6.20	0.841 ✓	1	Member Bearing
T4	60	Leg	A490N	0.6250	4	19.67	25.43	0.774 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	5.91	8.27	0.715 ✓	1	Gusset Bearing
T5	40	Leg	A490N	0.7500	4	26.70	37.63	0.710 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	6.14	8.27	0.743 ✓	1	Gusset Bearing
T6	20	Leg	A354-BC	0.8750	4	33.11	43.29	0.765 ✓	1	Bolt Tension
		Diagonal	A325N	0.5000	1	6.33	8.27	0.766 ✓	1	Gusset Bearing

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 $\frac{P_u}{\phi P_n}$
T1	104 - 92	P2x.154	12.00	4.00	61.0 K=1.00	1.0745	-8.59	36.84	0.233 ¹ ✓
T2	92 - 80	P2x.154	12.00	4.00	61.0 K=1.00	1.0745	-25.85	36.84	0.702 ¹ ✓
T3	80 - 60	P2.5x.203	20.03	2.58	32.7 K=1.00	1.7040	-56.66	70.92	0.799 ¹ ✓
T4	60 - 40	P2.875x0.203w3/8HP+FF	20.03	6.68	95.5 K=1.20	5.9892	-90.38	138.42	0.653 ¹ ✓
T5	40 - 20	P2.875x0.203w3/8HP+FF	20.03	6.68	93.9 K=1.18	5.9892	-122.23	141.49	0.864 ¹ ✓
T6	20 - 0	P3.5x0.3w3/8HP+FF	20.03	6.68	84.6 K=1.28	8.1008	-151.84	216.06	0.703 ¹ ✓

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

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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	104 - 92	L1 1/2x1 1/2x3/16	7.65	3.60	147.4 K=1.00	0.5273	-2.02	6.94	0.291 ¹ ✓
T2	92 - 80	L1 1/2x1 1/2x3/16	7.68	3.62	148.2 K=1.00	0.5273	-4.22	6.87	0.614 ¹ ✓
T3	80 - 60	L2x2x3/16	9.70	4.75	144.7 K=1.00	0.7150	-5.37	9.77	0.550 ¹ ✓
T4	60 - 40	L2x2x3/8	12.21	5.99	184.7 K=1.00	1.3600	-5.98	11.41	0.524 ¹ ✓
T5	40 - 20	L2 1/2x2 1/2x3/8	13.96	6.87	169.2 K=1.00	1.7300	-6.25	17.30	0.361 ¹ ✓
T6	20 - 0	L2 1/2x2 1/2x3/8	15.79	7.76	191.2 K=1.00	1.7300	-6.48	13.55	0.478 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 $\frac{P_u}{\phi P_n}$
T3	80 - 60	L2x2x3/16	8.30	8.06	142.6 K=0.91	0.7150	-0.98	10.06	0.098 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	104 - 92	L2x2x3/16	6.52	6.11	186.2 K=1.00	0.7150	-0.10	5.90	0.016 ¹ ✓
T2	92 - 80	L2x2x3/16	6.52	6.11	186.2 K=1.00	0.7150	-0.34	5.90	0.058 ¹ ✓

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

tnxTower Bennett & Pless 750 Park Commerce Dr #200 Boca Raton, FL 33487 Phone: 561-282-2676 FAX:	Job	CT901 Glastonbury	Page	30 of 32
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	Client	Insite Towers, LLC	Designed by	mhlinka

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	104 - 92	P2x.154	12.00	4.00	61.0	1.0745	5.25	48.35	0.109 ¹
T2	92 - 80	P2x.154	12.00	4.00	61.0	1.0745	19.80	48.35	0.409 ¹
T3	80 - 60	P2.5x.203	20.03	2.43	30.8	1.7040	48.03	76.68	0.626 ¹
T4	60 - 40	P2.875x0.203w3/8HP+FF	20.03	6.68	79.6	5.9892	78.68	269.51	0.292 ¹
T5	40 - 20	P2.875x0.203w3/8HP+FF	20.03	6.68	79.6	5.9892	106.80	269.51	0.396 ¹
T6	20 - 0	P3.5x0.3w3/8HP+FF	20.03	6.68	66.1	8.1008	132.46	364.54	0.363 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	104 - 92	L1 1/2x1 1/2x3/16	7.65	3.60	97.4	0.3076	2.07	13.38	0.154 ¹
T2	92 - 80	L1 1/2x1 1/2x3/16	7.68	3.62	97.9	0.3076	4.09	13.38	0.305 ¹
T3	80 - 60	L2x2x3/16	9.70	4.75	94.4	0.4484	5.21	19.50	0.267 ¹
T4	60 - 40	L2x2x3/8	12.21	5.99	123.1	0.8442	5.91	36.72	0.161 ¹
T5	40 - 20	L2 1/2x2 1/2x3/8	13.96	6.87	111.1	1.1217	6.14	48.79	0.126 ¹
T6	20 - 0	L2 1/2x2 1/2x3/8	15.79	7.76	125.3	1.1217	6.33	48.79	0.130 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 $\frac{P_u}{\phi P_n}$
T3	80 - 60	L2x2x3/16	8.30	8.06	156.8	0.7150	0.98	23.17	0.042 ¹

¹ P_u / φP_n controls

tnxTower Bennett & Pless 750 Park Commerce Dr #200 Boca Raton, FL 33487 Phone: 561-282-2676 FAX:	Job CT901 Glastonbury	Page 31 of 32
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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 $\frac{P_u}{\phi P_n}$ ¹
T1	104 - 92	L2x2x3/16	6.52	6.11	123.0	0.4484	0.11	19.50	0.006 ¹
T2	92 - 80	L2x2x3/16	6.52	6.11	123.0	0.4484	0.48	19.50	0.024 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	104 - 92	Leg	P2x.154	3	-8.59	36.84	23.3	Pass	
T2	92 - 80	Leg	P2x.154	27	-25.85	36.84	70.2	Pass	
T3	80 - 60	Leg	P2.5x.203	51	-56.66	70.92	79.9	Pass	
T4	60 - 40	Leg	P2.875x0.203w3/8HP+FF	90	-90.38	138.42	65.3	Pass	
T5	40 - 20	Leg	P2.875x0.203w3/8HP+FF	110	-122.23	141.49	77.4 (b)	Pass	
T6	20 - 0	Leg	P3.5x0.3w3/8HP+FF	131	-151.84	216.06	86.4	Pass	
T1	104 - 92	Diagonal	L1 1/2x1 1/2x3/16	16	-2.02	6.94	76.5 (b)	Pass	
T2	92 - 80	Diagonal	L1 1/2x1 1/2x3/16	34	-4.22	6.87	29.1	Pass	
T3	80 - 60	Diagonal	L2x2x3/16	55	-5.37	9.77	33.3 (b)	Pass	
T4	60 - 40	Diagonal	L2x2x3/8	94	-5.98	11.41	61.4	Pass	
T5	40 - 20	Diagonal	L2 1/2x2 1/2x3/8	115	-6.25	17.30	65.9 (b)	Pass	
T6	20 - 0	Diagonal	L2 1/2x2 1/2x3/8	136	-6.48	13.55	55.0	Pass	
T3	80 - 60	Secondary Horizontal	L2x2x3/16	59	-0.98	10.06	84.1 (b)	Pass	
T1	104 - 92	Top Girt	L2x2x3/16	4	-0.10	5.90	52.4	Pass	
T2	92 - 80	Top Girt	L2x2x3/16	28	-0.34	5.90	71.5 (b)	Pass	
							74.3 (b)		
							47.8		
							76.6 (b)		
							Summary		
							Leg (T5)	86.4	Pass
							Diagonal (T3)	84.1	Pass
							Secondary Horizontal (T3)	9.8	Pass
							Top Girt (T2)	7.7	Pass
							Bolt Checks	84.1	Pass
							RATING =	86.4	Pass

<p><i>tnxTower</i></p> <p><i>Bennett & Pless</i> 750 Park Commerce Dr #200 Boca Raton, FL 33487 Phone: 561-282-2676 FAX:</p>	Job CT901 Glastonbury	Page 32 of 32
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	Client Insite Towers, LLC	Designed by mhlinka

Program Version 8.0.7.4 - 5/11/2020 File://EgnyteDrive/bennettpless/Shared/Projects/2020/20.03.000 - Boca/20.03.013.xxx - InSite/20.03.013.034 - CT901 Glastonbury (VZW) 104ft SST/CT901 Glastonbury (VZW) 104ft SST_112020_With Seismic.eri

Attachment 2:
Collocation Application

**EXHIBIT
Equipment**

Site Name and #: CT901 / Glastonbury **Licensee Name:** Cellco Partnership d/b/a Verizon Wireless

The mounting method and exact location of the space and equipment listed herein shall be subject to InSite's approval.

SYSTEM REQUIREMENTS					
POWER provided by:	Utility Company direct			TELCO provided by: POTS	
Power Requirements:	Amps: 200	Volts: 240	No. of Outlets: N/A		
Generator Provided by:	Licensee	Make: Unknown	Model: Unknown	Fuel Type: Diesel	Capacity: Unknown
Batteries:	Quantity: N/A	Make: N/A	Model: N/A		
SPACE REQUIREMENTS & RADIO INVENTORY					
Type of Space Required:	Ground: No	Floor: No	Total Square Feet: 300 sq. ft.		
Dimensions of Equipment Floor/Ground Space:	12' x 20'		Equipment Height: N/A		
Dimensions of Generator Ground Space:	5' x 12'		Dimensions of Fuel Tank Ground Space: N/A		
No. of Transmitters (Tx):	N/A	Transmitter Make/Model: N/A	Transmitter Power Output: N/A		
No. of Receivers (Rx):	N/A	Receiver Make/Model: N/A	Transmitter ERP: N/A		
Cabinet also contains:	N/A				
EQUIPMENT LOADING DESCRIPTION (FINAL CONFIGURATION)					
	Sector 1	Sector 2	Sector 3	DISH(ES)	OTHER
Antenna Type (1):	Panel	Panel	Panel	N/A	N/A
# of Antennas (1)/ Sector:	Two (2)	Two (2)	Two (2)	None	None
Tx, Rx or Both:	Both	Both	Both	N/A	N/A
Antenna Manufacturer (1):	Andrew	Andrew	Andrew	N/A	N/A
Antenna Model (1):	SBNHH-1D65B	SBNHH-1D65B	SBNHH-1D65B	N/A	N/A
Antenna Dimensions (1):	72.9" x 11.9" x 7.1"	72.9" x 11.9" x 7.1"	72.9" x 11.9" x 7.1"	N/A	N/A
Antenna Weight (1):	41 lbs	41 lbs	41 lbs	N/A	N/A
Antenna RAD Ctr / Azimuth (1):	102 ft / 45°	102 ft / 150°	102 ft / 290°	N/A	N/A
Antenna Type (2):	Panel	Panel	Panel	N/A	N/A
# of Antennas (2)/ Sector:	One (1)	One (1)	One (1)	None	None
Tx, Rx or Both:	Both	Both	Both	N/A	N/A
Antenna Manufacturer (2):	Andrew	Andrew	Andrew	N/A	N/A
Antenna Model (2):	LNx-8514DS-A1M	LNx-8514DS-A1M	LNx-8514DS-A1M	N/A	N/A
Antenna Dimensions (2):	96.4" x 11.9" x 7.1"	96.4" x 11.9" x 7.1"	96.4" x 11.9" x 7.1"	N/A	N/A
Antenna Weight (2):	50 lbs	50 lbs	50 lbs	N/A	N/A
Antenna RAD Ctr / Azimuth (2):	102 ft / 45°	102 ft / 150°	102 ft / 290°	N/A	N/A
Antenna Type (3):	Panel	Panel	Panel	N/A	N/A
# of Antennas (3)/ Sector:	One (1)	One (1)	One (1)	None	None
Tx, Rx or Both:	Both	Both	Both	N/A	N/A
Antenna Manufacturer (3):	TBD	TBD	TBD	N/A	N/A
Antenna Model (3):	nL-Sub6 Antenna	nL-Sub6 Antenna	nL-Sub6 Antenna	N/A	N/A
Antenna Dimensions (3):	35.04" x 19.69" x 5.83"	35.04" x 19.69" x 5.83"	35.04" x 19.69" x 5.83"	N/A	N/A
Antenna Weight (3):	96.56 lbs	96.56 lbs	96.56 lbs	N/A	N/A
Antenna RAD Ctr / Azimuth (3):	102 ft / 45°	102 ft / 150°	102 ft / 290°	N/A	N/A
# of RRU/RRHs/ Sector (1):	One (1)	One (1)	One (1)		
RRU/RRH Manufacturer (1):	Samsung	Samsung	Samsung		
RRU/RRH Model (1):	B5/B13 RRH-BR04C	B5/B13 RRH-BR04C	B5/B13 RRH-BR04C		
RRU/RRH Dimensions (1):	15" x 15" x 8.1"	15" x 15" x 8.1"	15" x 15" x 8.1"		
RRU/RRH Weight (1):	70.3 lbs	70.3 lbs	70.3 lbs		
RRU/RRH RAD Ctr (1):	102 ft	102 ft	102 ft		
# of RRU/RRHs/ Sector (2):	One (1)	One (1)	One (1)		
RRU/RRH Manufacturer (2):	Samsung	Samsung	Samsung		
RRU/RRH Model (2):	B2/B66A RRH-BR049	B2/B66A RRH-BR049	B2/B66A RRH-BR049		
RRU/RRH Dimension (2):	15" x 15" x 10"	15" x 15" x 10"	15" x 15" x 10"		
RRU/RRH Weight (2):	84.4 lbs	84.4 lbs	84.4 lbs		
RRU/RRH RAD Ctr (2):	102 ft	102 ft	102 ft		
# of TMAs/ Sector (1):	None	None	None		
# of Diplexers/ Sector:	None	None	None		
# of Surge Suppressors/Sctr:	One (1)	None	None		
Surge Suppressor Make:	RFS	N/A	N/A		
Surge Suppressor Model:	DB-C1-12C-24AB-0Z	N/A	N/A		
Surge Suppressor Dimensions:	12.6" x 16.5" x 29.5"	N/A	N/A		
Surge Suppressor Weight:	32 lbs	N/A	N/A		
Surge Suppressors RAD Ctr:	102 ft	N/A	N/A		
OTHER:	None	None	None		
Transmit Frequencies:	746-757, 869-880, 890-891.5, 1970-1975, 2110-2130 MHz			N/A	N/A
Receive Frequencies:	776-787, 824-835, 845-846.5, 1890-1902.5, 1710-1730 MHz			N/A	N/A
# of Lines:	Two (2)	Two (2)	Two (2)	None	None
Line Size:	1-5/8"	1-5/8"	1-5/8"		
# of Lines:	One (1)	None	None	None	None
Line Size:	1-5/8" Hybrid	N/A	N/A	N/A	N/A
Mount Type:	Sector Frame	Sector Frame	Sector Frame	N/A	N/A
Mount Size:	Twelve Feet (12')	Twelve Feet (12')	Twelve Feet (12')	N/A	N/A

EQUIPMENT LOADING DESCRIPTION (FINAL CONFIGURATION)

	Sector 1	Sector 2	Sector 3	DISH(ES)	OTHER
Mount Manufacturer:	SitePro1	SitePro1	SitePro1	N/A	N/A
Mount Model #:	VFA12-HD	VFA12-HD	VFA12-HD	N/A	N/A

May 3, 2021

Mr. Edward Onessimo
 SAI Communications
 68 Avalon Road
 Milton, MA 02186

REFERENCE: **Structural Opinion Letter for Antenna Change (B&P Job # 20.03.013.034)**
104 ft Self-Support Tower

SITE INFO: **Verizon Site Name: Manchester South CT**
Verizon Site Number: 468979

SITE DATA: **Address: 577 Bell Street**
Glastonbury, CT 06033 (Hartford County)
Lat: 41.7338 Long: -72.5497

We are pleased to submit this ‘**Structural Opinion Letter**’ for the structural assessment of the aforementioned structure. The objective of this assessment is to determine the suitability of the existing structure to support the now specified antenna shown in **BOLD** in Table 1 below. This antenna was previously labeled “nL-Sub6 Antenna” in the Bennett and Pless SA dated November 24, 2020.

Table 1 – Existing and Proposed Loading

Antenna/Equipment					Coax	
Mount	RAD	Qty.	Antenna	Type	Qty.	Size/Type
102.0	-	3	Sitepro1 VFA12-HD	Mount	6 1	1-5/8” Coax 1 5/8” Hybrid
	102.0	6	Andrew SBNHH-1D65B	Panel		
		3	Andrew LNX-8514DS-A1M	Panel		
		3	Samsung MT6407-77A (Samsung 64T64R MMU)	Panel		
		3	Samsung B5/B13 RRH-BR040C	RRH		
		3	Samsung B2/B66A RRH-BR049	RRH		
		1	RFS DB-C1-12C-24AB-0Z	Surge Suppressor		

The “Samsung MT6407-77A” has an effective wind area of 4.7 square feet. The “nL-Sub6 Antenna” in the Bennett and Pless SA dated November 24, 2020 assumed this antenna to have an effective wind area of 7.2 square feet. Therefore, the stress level of both the tower and foundation will decrease from what was shown in the Bennett and Pless SA dated November 24, 2020. No exception is taken to the update of this antenna model.

We appreciate the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or any other projects please call us anytime.

Sincerely,

Bennett & Pless, Inc.
Written by:



John Bozzetto, PE
Principal

Reviewed by:



5/3/2021

Thomas F. Ireland, PE
PE# 30273
Principal



Maser Consulting Connecticut
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
856.797.0412
gdulnik@maserconsulting.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10022540
Maser Consulting Connecticut Project #: 20777295A

December 18, 2020

Site Information

Site ID: 468979-VZW / Manchester South CT
Site Name: Manchester South CT
Carrier Name: Verizon Wireless
Address: 577 Bell St.
Glastonbury, Connecticut 06033
Hartford County
Latitude: 41.73364166°
Longitude: -72.54967777°

Structure Information

Tower Type: 112-Ft Self Support
Mount Type: 12.5-Ft Sector Frame

FUZE ID # 16232029

Analysis Results

Sector Frame: 48.8% Pass

*****Contractor PMI Requirements:**

Included at the end of this MA report

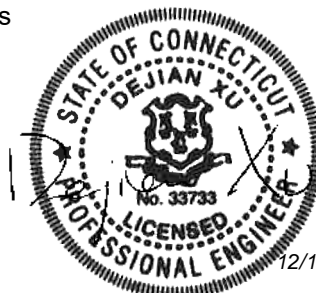
Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Carol Luengas



12/18/2020

Executive Summary:

The objective of this report is to determine the capacity of the proposed antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. The proposed mount was assumed to be installed properly to the existing tower per the manufacturer’s instructions. Maser Consulting Connecticut cannot verify that the proposed mount will fit properly and is not liable for any fit-up issues during installation.

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
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 624934, dated October 8, 2020</i>
<i>Mount Mapping Report</i>	<i>Delta Oaks Group Site ID: 468979, dated October 27, 2020</i>
<i>Mount Analysis</i>	<i>Maser Consulting Connecticut Project #: 20777295A Dated November 11, 2020</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} :	118 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e :	0.988
Seismic Parameters:	S_s :	0.195
	S_1 :	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, L_v :	250 lbs.
	Maintenance Live Load, L_m :	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
102.00	102.00	3	-	Licensed Sub 6 Antennas	Added
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48	
		3	Andrew	LNx-8514DS-A1M	Retained
		6	Andrew	SBNHH-1D65B	

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mounts.

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting 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 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.
3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, 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 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:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o 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
<i>Mount Pipe</i>	<i>41.7</i>	<i>Pass</i>
<i>Tieback</i>	<i>7.1</i>	<i>Pass</i>
<i>Standoff Horizontal</i>	<i>18.6</i>	<i>Pass</i>
<i>Face Horizontal</i>	<i>24.9</i>	<i>Pass</i>
<i>Standoff Diagonal</i>	<i>7.9</i>	<i>Pass</i>
<i>Standoff Vertical</i>	<i>24.8</i>	<i>Pass</i>
<i>Standoff Plate</i>	<i>41.0</i>	<i>Pass</i>
<i>Connection Check</i>	<i>48.8</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	48.8%
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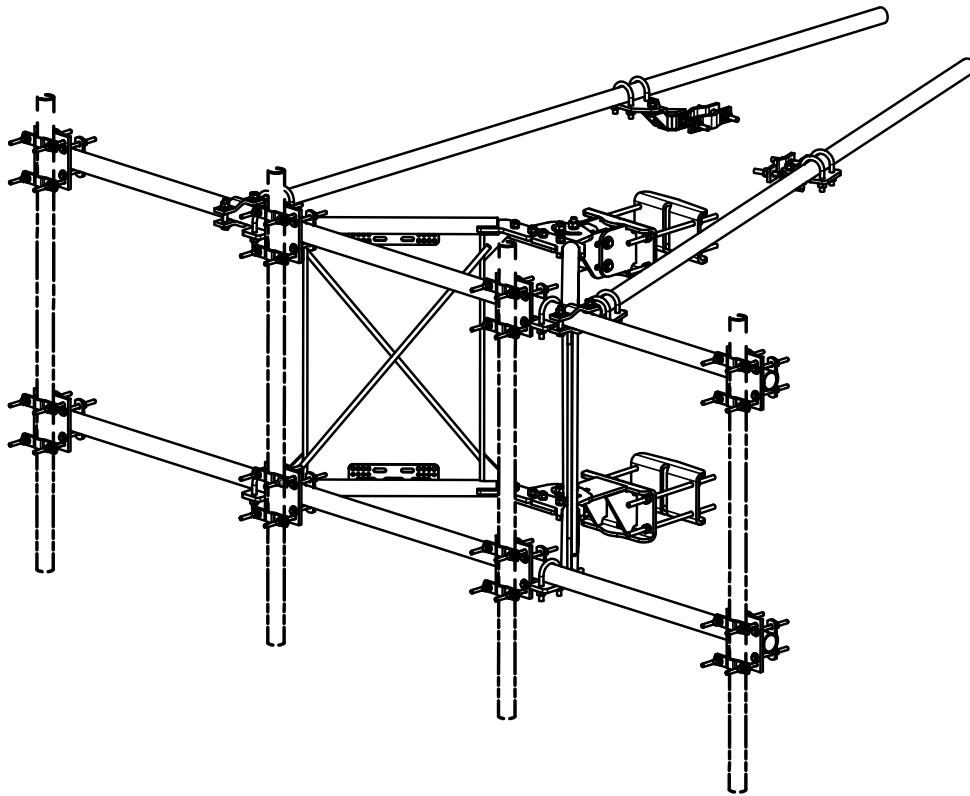
Recommendation:

The proposed mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.

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

Attachments:

1. Mount Assembly Drawing
2. Analysis Calculations
- 3. Contractor Required Post Installation Inspection (PMI) Report Deliverables**
4. Antenna Placement Diagrams
5. TIA Adoption and Wind Speed Usage Letter



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		71.41	142.81
2	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
3	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	19.00	38.01
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	8	SCX7	CROSSOVER PLATE	8 in	7.55	60.39
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
13	16	X-115765	5" V-CLAMP	7 1/16 in	1.03	16.41
14	16	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.92	14.75
15	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
16	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
17	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
18	2	G34FW	3/4" HDG USS FLATWASHER		0.06	0.12
19	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
20	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
21	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
22	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
23	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
24	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
25	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
26	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
27	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
28	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
29	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
30	4	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.08
31	25	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.76
32	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
33	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
34	64	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	26.21
35	32	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	9.54
36	132	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	4.50
37	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
38	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.58
					TOTAL WT. #	738.06

TOLERANCE NOTES

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

PROPRIETARY NOTE:
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DESCRIPTION
 12'-6" HEAVY DUTY
 V-FRAME ASSEMBLY
 WITH TWO STIFF ARMS

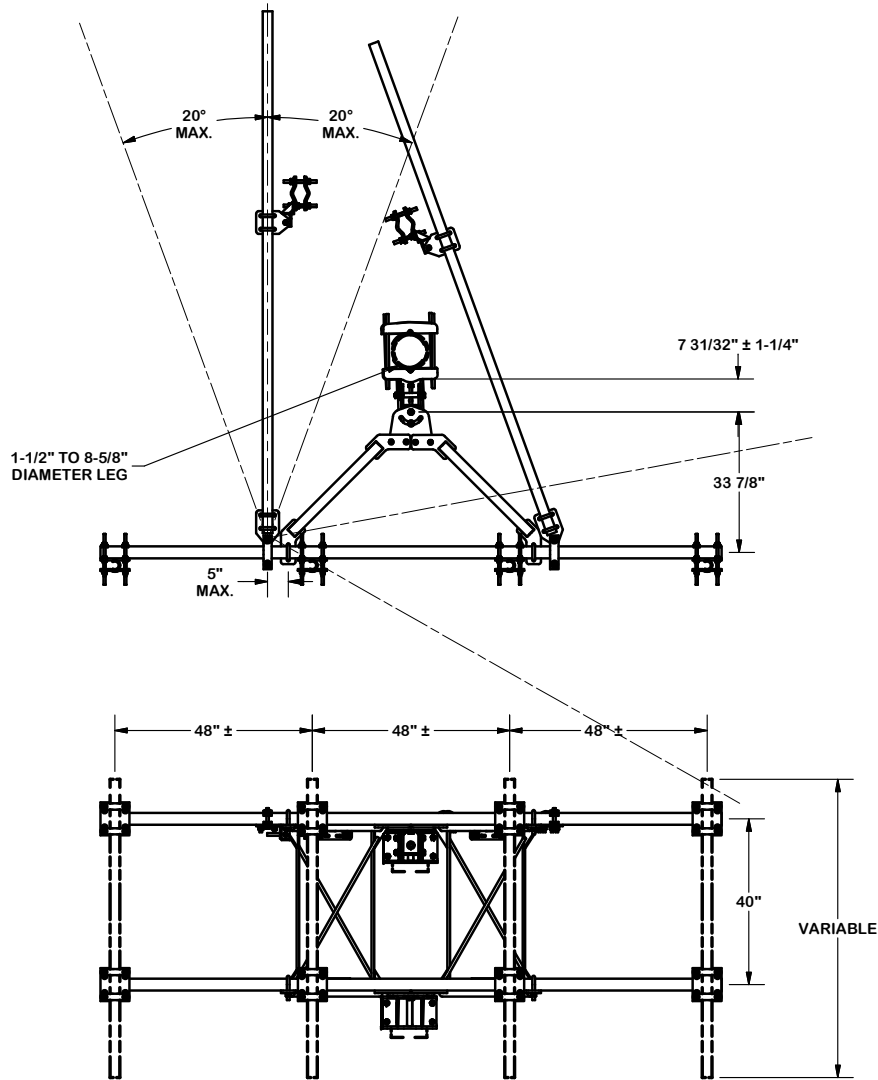
SITE PRO 1
 Engineering Support Team:
 1-888-753-7446

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

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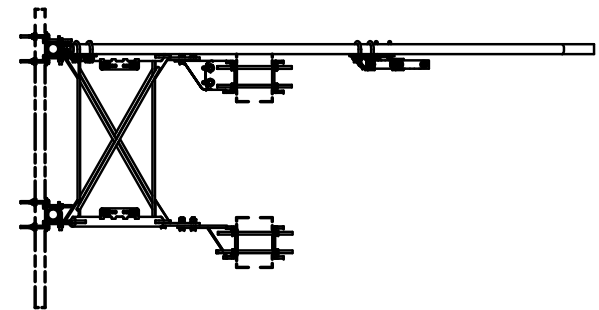
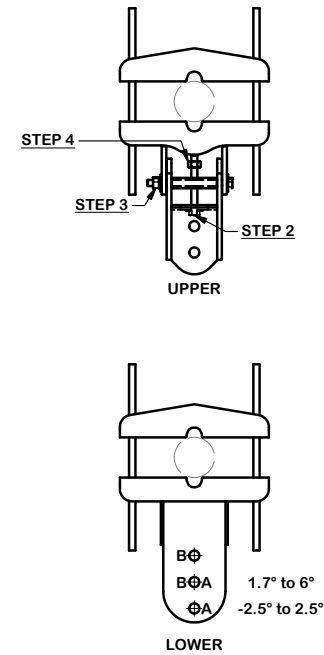
CPD NO.	DRAWN BY	ENG. APPROVAL
	CEK 6/2/2015	
CLASS	DRAWING USAGE	CHECKED BY
81	CUSTOMER	BMC 6/28/2018

PART NO.	VFA12-HD-SPT
DWG. NO.	VFA12-HD-SPT



ANGLE CALIBRATING PROCEDURE:

1. MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
 - HOLE A = -2.6° TO 2.6°
 - HOLE B = 1.6° TO 6.8°
2. USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
3. TORQUE LOCKING BOLTS TO 100 ft.-lbs.
4. ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
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DESCRIPTION
 12'-6" HEAVY DUTY
 V-FRAME ASSEMBLY
 WITH TWO STIFF ARMS

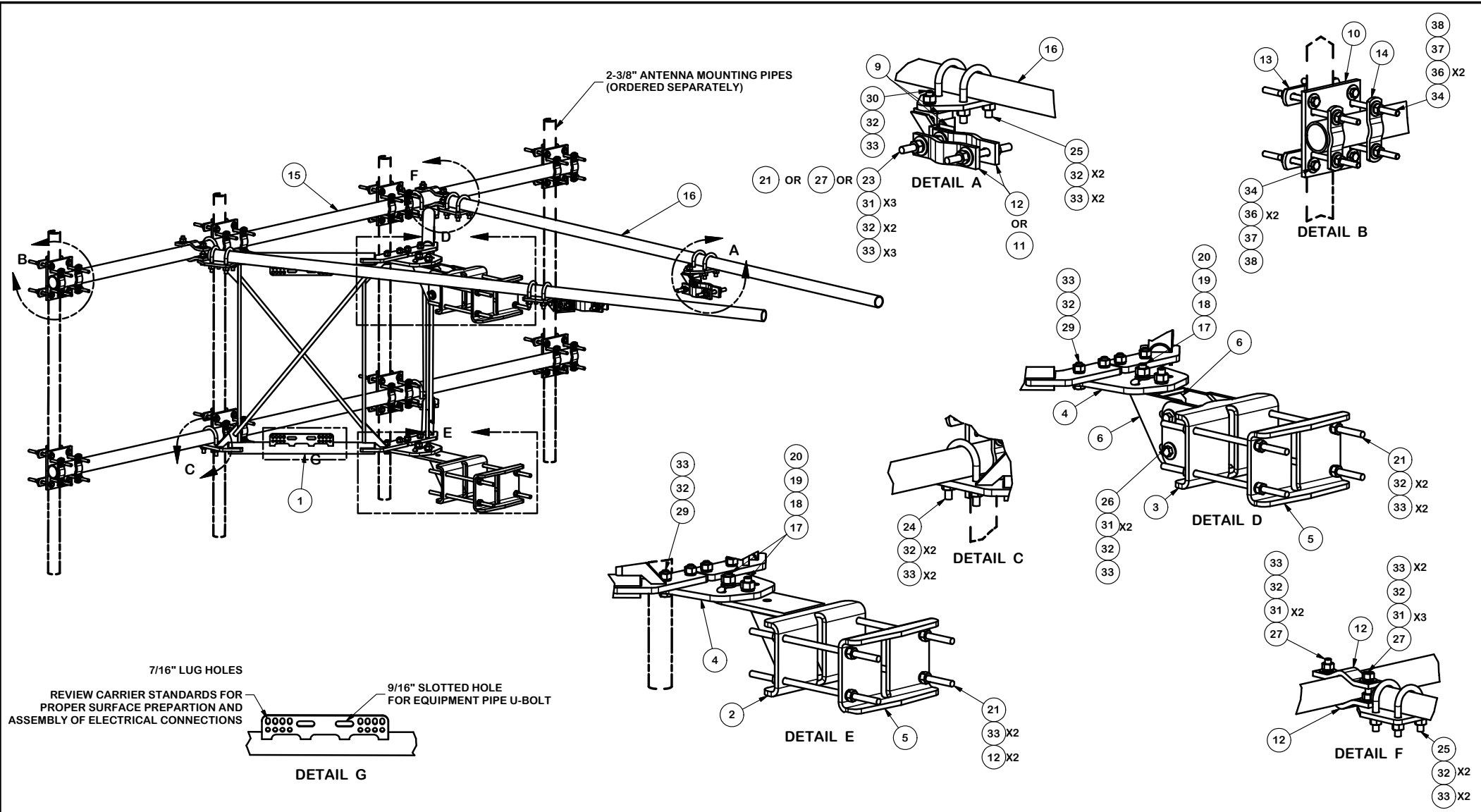
CPD NO.	DRAWN BY CEK	6/2/2015	ENG. APPROVAL
CLASS 81	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY BMC 6/28/2018



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PART NO.	VFA12-HD-SPT	PAGE	2 OF 3
DWG. NO.	VFA12-HD-SPT		



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
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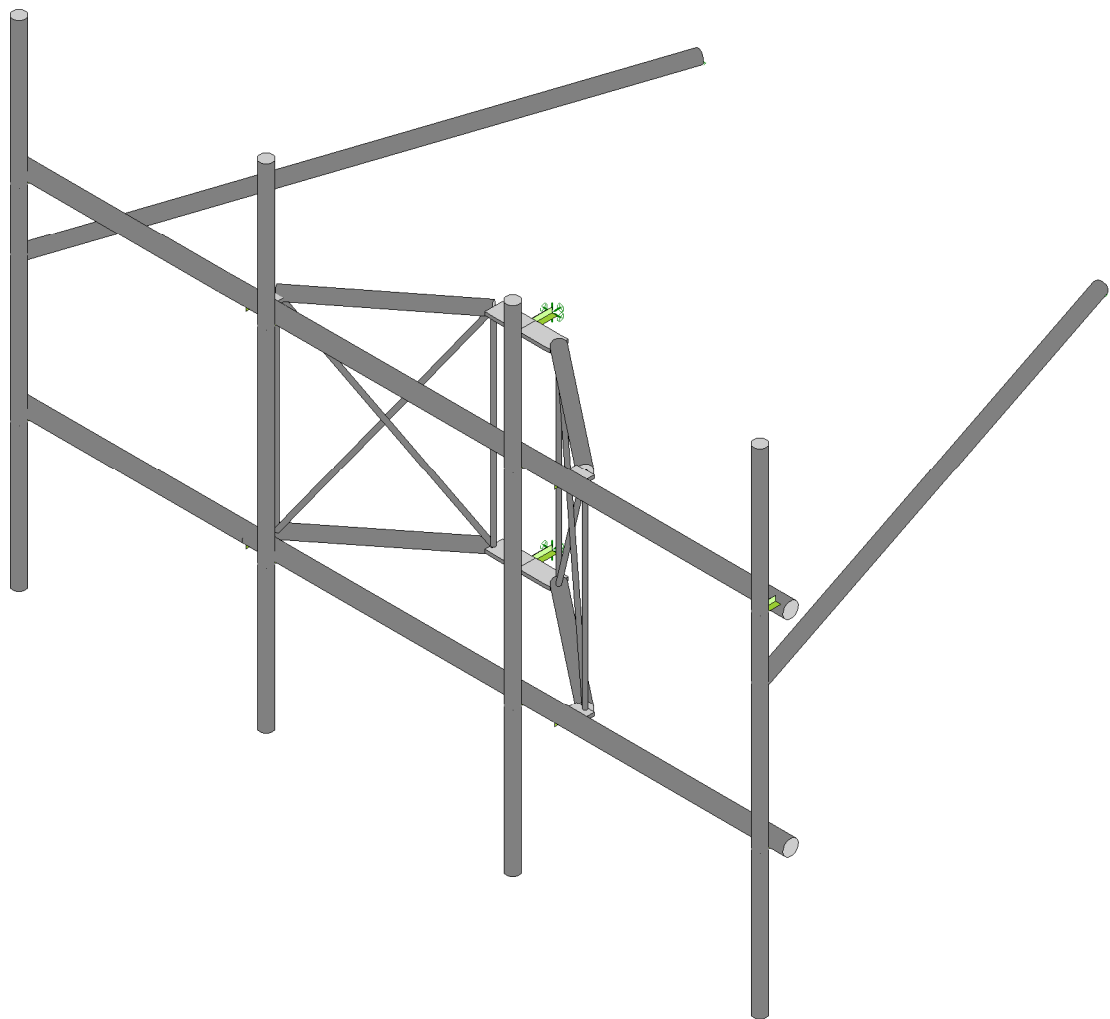
DESCRIPTION
 12'-6" HEAVY DUTY
 V-FRAME ASSEMBLY
 WITH TWO STIFF ARMS

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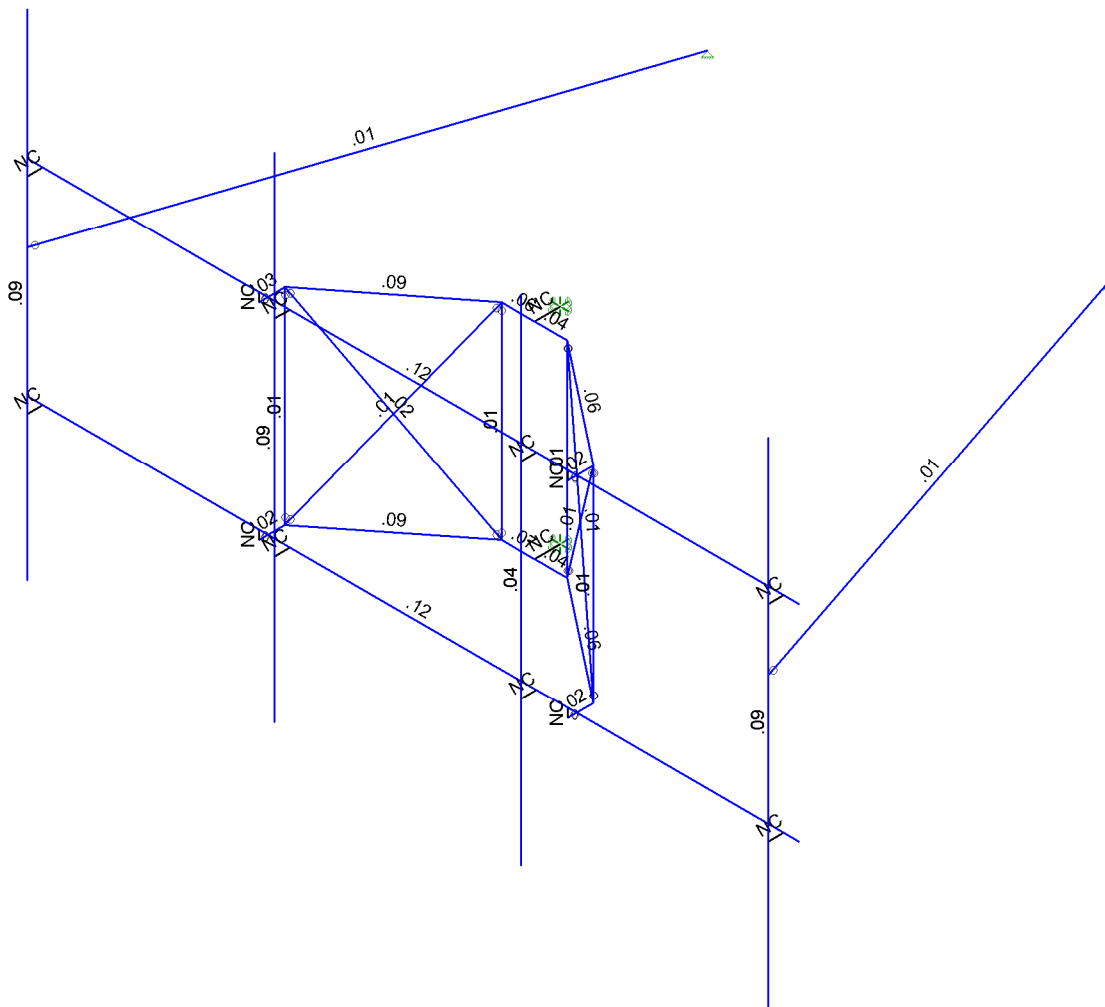
CPD NO.	DRAWN BY	ENG. APPROVAL
81	CEK 6/2/2015	BMC 6/28/2018
CLASS	DRAWING USAGE	CHECKED BY
81	CUSTOMER	BMC 6/28/2018

PART NO.	VFA12-HD-SPT
DWG. NO.	VFA12-HD-SPT



Envelope Only Solution

SK - 1
Dec 16, 2020 at 7:01 PM
MODS - 468979-VZW_MT_LOT_A_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 3
		Dec 16, 2020 at 7:01 PM
		MODS - 468979-VZW_MT_LOT_A_...



Company :
 Designer :
 Job Number :
 Model Name :

Dec 16, 2020
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 Checked By: _____

Basic Load Cases

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



Company :
 Designer :
 Job Number :
 Model Name :

Dec 16, 2020
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Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...
54 Structure Wi (30 Deg)	None						56
55 Structure Wi (60 Deg)	None						56
56 Structure Wi (90 Deg)	None						56
57 Structure Wi (120 Deg)	None						56
58 Structure Wi (150 Deg)	None						56
59 Structure Wi (180 Deg)	None						56
60 Structure Wi (210 Deg)	None						56
61 Structure Wi (240 Deg)	None						56
62 Structure Wi (270 Deg)	None						56
63 Structure Wi (300 Deg)	None						56
64 Structure Wi (330 Deg)	None						56
65 Structure Wm (0 Deg)	None						56
66 Structure Wm (30 Deg)	None						56
67 Structure Wm (60 Deg)	None						56
68 Structure Wm (90 Deg)	None						56
69 Structure Wm (120 Deg)	None						56
70 Structure Wm (150 Deg)	None						56
71 Structure Wm (180 Deg)	None						56
72 Structure Wm (210 Deg)	None						56
73 Structure Wm (240 Deg)	None						56
74 Structure Wm (270 Deg)	None						56
75 Structure Wm (300 Deg)	None						56
76 Structure Wm (330 Deg)	None						56
77 Lm1	None				1		
78 Lm2	None				1		
79 Lv1	None				1		
80 Lv2	None					1	

Load Combinations

Description	So...P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
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 (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1	
14 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1	
15 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1	
16 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1	
17 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1	
18 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1	
19 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1	
20 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1	
21 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1	
22 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1	
23 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1	
24 1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1	
25 1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1			



Company :
 Designer :
 Job Number :
 Model Name :

Dec 16, 2020
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Load Combinations (Continued)

	Description	So...	P...	S...	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.
26	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1
27	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1
28	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1
29	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1
30	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1
31	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1
32	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1
33	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1
34	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1
35	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1
36	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1
37	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1
38	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1
39	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1
40	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1
41	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1
42	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1
43	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1
44	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1
45	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1
46	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1
47	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1
48	1.2D + 1.5Lm2 + 1.0W...	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		Y		1	1	39	1						
53	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX		SY	1	SZ	-1
54	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866
55	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5
56	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	1	SY	1	SZ	
57	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	.866	SY	1	SZ	.5
58	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	.5	SY	1	SZ	.866
59	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX		SY	1	SZ	1
60	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866
61	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5
62	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	-1	SY	1	SZ	
63	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5
64	1.2D + 1.0Ev + 1.0Eh (...	Y			1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N5	-8.833333	0.145833	8.083333	0	
6	N6	-8.833333	3.479167	8.083333	0	
7	N7	-4.833333	0.145833	8.083333	0	
8	N8	-4.833333	3.479167	8.083333	0	
9	N9	-0.833333	0.145833	8.083333	0	
10	N10	-0.833333	3.479167	8.083333	0	
11	N11	3.166667	0.145833	8.083333	0	
12	N12	3.166667	3.479167	8.083333	0	
13	N13	-8.833333	0.145833	8.333333	0	



Company :
 Designer :
 Job Number :
 Model Name :

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
14	N14	-8.833333	3.479167	8.333333	0	
15	N15	-4.833333	0.145833	8.333333	0	
16	N16	-4.833333	3.479167	8.333333	0	
17	N17	-0.833333	0.145833	8.333333	0	
18	N18	-0.833333	3.479167	8.333333	0	
19	N19	3.166667	0.145833	8.333333	0	
20	N20	3.166667	3.479167	8.333333	0	
21	N21	-5.333333	0	8.083333	0	
22	N22	-5.333333	3.333333	8.083333	0	
23	N23	-0.333333	0	8.083333	0	
24	N24	-0.333333	3.333333	8.083333	0	
25	N25	-5.333333	0	7.661458	0	
26	N26	-5.333333	3.333333	7.661458	0	
27	N27	-0.333333	0	7.661458	0	
28	N28	-0.333333	3.333333	7.661458	0	
29	N29	-2.833333	0	6.119792	0	
30	N30	-2.833333	3.333333	6.119792	0	
31	N31	-3.364583	0	6.119792	0	
32	N32	-3.364583	3.333333	6.119792	0	
33	N33	-2.302083	0	6.119792	0	
34	N34	-2.302083	3.333333	6.119792	0	
35	N35	-2.833333	0	5.703125	0	
36	N36	-2.833333	3.333333	5.703125	0	
37	N37	-5.75	3.479167	8.083333	0	
38	N38	0.083333	3.479167	8.083333	0	
39	N39	-8.833333	5.8125	8.333333	0	
40	N40	-4.833333	5.8125	8.333333	0	
41	N41	-0.833333	5.8125	8.333333	0	
42	N42	3.166667	5.8125	8.333333	0	
43	N43	-8.833333	-2.1875	8.333333	0	
44	N44	-4.833333	-2.1875	8.333333	0	
45	N45	-0.833333	-2.1875	8.333333	0	
46	N46	3.166667	-2.1875	8.333333	0	
47	N58	-5.333333	3.333333	7.708333	0	
48	N76	-2.927083	0	6.119792	0	
49	N77	-3.229167	0	6.119792	0	
50	N78	-2.739583	0	6.119792	0	
51	N79	-2.4375	0	6.119792	0	
52	N80	-2.927083	3.333333	6.119792	0	
53	N81	-3.229167	3.333333	6.119792	0	
54	N82	-2.739583	3.333333	6.119792	0	
55	N83	-2.4375	3.333333	6.119792	0	
56	N58A	-2.833333	3.479167	8.083333	0	
57	N59	-5.333333	0.145833	8.083333	0	
58	N60	-5.333333	3.479167	8.083333	0	
59	N61	-0.333333	0.145833	8.083333	0	
60	N62	-0.333333	3.479167	8.083333	0	
61	N63	0.416667	2.479167	0.07396	0	
62	N64	-6.083333	2.479167	0.07396	0	
63	N65	-8.833333	2.479167	8.333333	0	
64	N66	3.166667	2.479167	8.333333	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	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Horizontal mount pipe	PIPE 2.5	Beam	Pipe	Q235	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	PIPE 2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	SR 0.75	Beam	BAR	Q235	Typical	.442	.016	.016	.031
5	Tieback	PIPE 2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
6	Standoff Vertical	SR 0.625	Beam	BAR	Q235	Typical	.307	.007	.007	.015
7	Standoff Plate	PL5/8x3.5	Beam	BAR	Q235	Typical	2.188	.071	2.233	.253

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/...	Density[k/ft^3]	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
7	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M1	N2	N1			Horizontal mount pipe	Beam	Pipe	Q235	Typical
2	M2	N4	N3			Horizontal mount pipe	Beam	Pipe	Q235	Typical
3	M3	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N6	N14			RIGID	None	None	RIGID	Typical
5	M5	N8	N16			RIGID	None	None	RIGID	Typical
6	M9	N10	N18			RIGID	None	None	RIGID	Typical
7	M10	N9	N17			RIGID	None	None	RIGID	Typical
8	M11	N12	N20			RIGID	None	None	RIGID	Typical
9	M12	N11	N19			RIGID	None	None	RIGID	Typical
10	M13	N22	N26		90	Standoff Plate	Beam	BAR	Q235	Typical
11	M14	N21	N25		90	Standoff Plate	Beam	BAR	Q235	Typical
12	M15	N23	N27		90	Standoff Plate	Beam	BAR	Q235	Typical
13	M16	N24	N28		90	Standoff Plate	Beam	BAR	Q235	Typical
14	M17	N26	N32			Standoff Horizontal	Beam	Pipe	Q235	Typical
15	M18	N25	N31			Standoff Horizontal	Beam	Pipe	Q235	Typical
16	M19	N27	N33			Standoff Horizontal	Beam	Pipe	Q235	Typical
17	M20	N28	N34			Standoff Horizontal	Beam	Pipe	Q235	Typical
18	M21	N32	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
19	M22	N34	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
20	M23	N31	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
21	M24	N33	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
22	M25	N31	N26			Standoff Diagonal	Beam	BAR	Q235	Typical
23	M26	N32	N25			Standoff Diagonal	Beam	BAR	Q235	Typical
24	M27	N33	N28			Standoff Diagonal	Beam	BAR	Q235	Typical
25	M28	N27	N34			Standoff Diagonal	Beam	BAR	Q235	Typical
26	M29	N29	N35			RIGID	None	None	RIGID	Typical
27	M30	N30	N36			RIGID	None	None	RIGID	Typical
28	M31	N65	N64			Tieback	Beam	Pipe	Q235	Typical
29	M32	N66	N63			Tieback	Beam	Pipe	Q235	Typical
30	MP4A	N39	N43			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
31	MP3A	N40	N44			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
32	MP2A	N41	N45			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
33	MP1A	N42	N46			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
34	M44	N25	N26			Standoff Vertical	Beam	BAR	Q235	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
35	M45	N31	N32			Standoff Vertical	Beam	BAR	Q235	Typical
36	M46	N33	N34			Standoff Vertical	Beam	BAR	Q235	Typical
37	M47	N27	N28			Standoff Vertical	Beam	BAR	Q235	Typical
38	M47B	N22	N60			RIGID	None	None	RIGID	Typical
39	M48A	N21	N59			RIGID	None	None	RIGID	Typical
40	M49A	N24	N62			RIGID	None	None	RIGID	Typical
41	M50A	N23	N61			RIGID	None	None	RIGID	Typical
42	M51A	N30	N36			RIGID	None	None	RIGID	Typical
43	M52A	N29	N35			RIGID	None	None	RIGID	Typical
44	M44A	N7	N15			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M9						Yes	** NA **			None
7	M10						Yes	** NA **			None
8	M11						Yes	** NA **			None
9	M12						Yes	** NA **			None
10	M13	OOOXOX					Yes	Default			None
11	M14	OOOXOX					Yes	Default			None
12	M15	OOOXOX					Yes				None
13	M16	OOOXOX					Yes				None
14	M17						Yes	Default			None
15	M18						Yes				None
16	M19						Yes				None
17	M20						Yes	Default			None
18	M21						Yes	Default			None
19	M22						Yes				None
20	M23						Yes				None
21	M24						Yes				None
22	M25	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
23	M26	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
24	M27	BenPIN	BenPIN			Euler Buc...	Yes				None
25	M28	BenPIN	BenPIN			Euler Buc...	Yes				None
26	M29						Yes	** NA **		Inactive	None
27	M30						Yes	** NA **		Inactive	None
28	M31	BenPIN					Yes	Default			None
29	M32	BenPIN					Yes	Default			None
30	MP4A						Yes				None
31	MP3A						Yes				None
32	MP2A						Yes				None
33	MP1A						Yes				None
34	M44	BenPIN	BenPIN				Yes				None
35	M45	BenPIN	BenPIN				Yes				None
36	M46	BenPIN	BenPIN				Yes				None
37	M47	BenPIN	BenPIN				Yes	Default			None
38	M47B						Yes	** NA **			None
39	M48A						Yes	** NA **			None
40	M49A						Yes	** NA **			None
41	M50A						Yes	** NA **			None
42	M51A						Yes	** NA **			None



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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
43	M52A						Yes	** NA **			None
44	M44A						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-43.55	2.5
2	MP4A	My	-.022	2.5
3	MP4A	Mz	0	2.5
4	MP4A	Y	-43.55	4.5
5	MP4A	My	-.022	4.5
6	MP4A	Mz	0	4.5
7	MP4A	Y	-84.4	1
8	MP4A	My	.042	1
9	MP4A	Mz	0	1
10	MP3A	Y	-70.3	.5
11	MP3A	My	.035	.5
12	MP3A	Mz	0	.5
13	MP1A	Y	-24.9	.5
14	MP1A	My	-.012	.5
15	MP1A	Mz	0	.5
16	MP1A	Y	-24.9	6.5
17	MP1A	My	-.012	6.5
18	MP1A	Mz	0	6.5
19	MP3A	Y	-20	.5
20	MP3A	My	-.01	.5
21	MP3A	Mz	-.01	.5
22	MP3A	Y	-20	6.5
23	MP3A	My	-.01	6.5
24	MP3A	Mz	-.01	6.5
25	MP3A	Y	-20	.5
26	MP3A	My	-.01	.5
27	MP3A	Mz	.01	.5
28	MP3A	Y	-20	6.5
29	MP3A	My	-.01	6.5
30	MP3A	Mz	.01	6.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-51.121	2.5
2	MP4A	My	-.026	2.5
3	MP4A	Mz	0	2.5
4	MP4A	Y	-51.121	4.5
5	MP4A	My	-.026	4.5
6	MP4A	Mz	0	4.5
7	MP4A	Y	-70.018	1
8	MP4A	My	.035	1
9	MP4A	Mz	0	1
10	MP3A	Y	-63.202	.5
11	MP3A	My	.032	.5
12	MP3A	Mz	0	.5
13	MP1A	Y	-122.426	.5
14	MP1A	My	-.061	.5
15	MP1A	Mz	0	.5
16	MP1A	Y	-122.426	6.5
17	MP1A	My	-.061	6.5

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
18	MP1A	Mz	0	6.5
19	MP3A	Y	-94.113	.5
20	MP3A	My	-.047	.5
21	MP3A	Mz	-.047	.5
22	MP3A	Y	-94.113	6.5
23	MP3A	My	-.047	6.5
24	MP3A	Mz	-.047	6.5
25	MP3A	Y	-94.113	.5
26	MP3A	My	-.047	.5
27	MP3A	Mz	.047	.5
28	MP3A	Y	-94.113	6.5
29	MP3A	My	-.047	6.5
30	MP3A	Mz	.047	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP4A	X	0	2.5
2	MP4A	Z	-83.882	2.5
3	MP4A	Mx	0	2.5
4	MP4A	X	0	4.5
5	MP4A	Z	-83.882	4.5
6	MP4A	Mx	0	4.5
7	MP4A	X	0	1
8	MP4A	Z	-72.958	1
9	MP4A	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	-72.958	.5
12	MP3A	Mx	0	.5
13	MP1A	X	0	.5
14	MP1A	Z	-223.75	.5
15	MP1A	Mx	0	.5
16	MP1A	X	0	6.5
17	MP1A	Z	-223.75	6.5
18	MP1A	Mx	0	6.5
19	MP3A	X	0	.5
20	MP3A	Z	-159.18	.5
21	MP3A	Mx	.08	.5
22	MP3A	X	0	6.5
23	MP3A	Z	-159.18	6.5
24	MP3A	Mx	.08	6.5
25	MP3A	X	0	.5
26	MP3A	Z	-159.18	.5
27	MP3A	Mx	-.08	.5
28	MP3A	X	0	6.5
29	MP3A	Z	-159.18	6.5
30	MP3A	Mx	-.08	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP4A	X	35.487	2.5
2	MP4A	Z	-61.464	2.5
3	MP4A	Mx	-.018	2.5
4	MP4A	X	35.487	4.5
5	MP4A	Z	-61.464	4.5
6	MP4A	Mx	-.018	4.5
7	MP4A	X	33.455	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP4A	Z	-57.946	1
9	MP4A	Mx	.017	1
10	MP3A	X	32.297	.5
11	MP3A	Z	-55.94	.5
12	MP3A	Mx	.016	.5
13	MP1A	X	102.673	.5
14	MP1A	Z	-177.835	.5
15	MP1A	Mx	-.051	.5
16	MP1A	X	102.673	6.5
17	MP1A	Z	-177.835	6.5
18	MP1A	Mx	-.051	6.5
19	MP3A	X	72.851	.5
20	MP3A	Z	-126.182	.5
21	MP3A	Mx	.027	.5
22	MP3A	X	72.851	6.5
23	MP3A	Z	-126.182	6.5
24	MP3A	Mx	.027	6.5
25	MP3A	X	72.851	.5
26	MP3A	Z	-126.182	.5
27	MP3A	Mx	-.1	.5
28	MP3A	X	72.851	6.5
29	MP3A	Z	-126.182	6.5
30	MP3A	Mx	-.1	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	39.106	2.5
2	MP4A	Z	-22.578	2.5
3	MP4A	Mx	-.02	2.5
4	MP4A	X	39.106	4.5
5	MP4A	Z	-22.578	4.5
6	MP4A	Mx	-.02	4.5
7	MP4A	X	47.472	1
8	MP4A	Z	-27.408	1
9	MP4A	Mx	.024	1
10	MP3A	X	41.453	.5
11	MP3A	Z	-23.933	.5
12	MP3A	Mx	.021	.5
13	MP1A	X	145.96	.5
14	MP1A	Z	-84.27	.5
15	MP1A	Mx	-.073	.5
16	MP1A	X	145.96	6.5
17	MP1A	Z	-84.27	6.5
18	MP1A	Mx	-.073	6.5
19	MP3A	X	102.837	.5
20	MP3A	Z	-59.373	.5
21	MP3A	Mx	-.022	.5
22	MP3A	X	102.837	6.5
23	MP3A	Z	-59.373	6.5
24	MP3A	Mx	-.022	6.5
25	MP3A	X	102.837	.5
26	MP3A	Z	-59.373	.5
27	MP3A	Mx	-.081	.5
28	MP3A	X	102.837	6.5
29	MP3A	Z	-59.373	6.5
30	MP3A	Mx	-.081	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
24	MP3A	Mx	-.081	6.5
25	MP3A	X	102.837	.5
26	MP3A	Z	59.373	.5
27	MP3A	Mx	-.022	.5
28	MP3A	X	102.837	6.5
29	MP3A	Z	59.373	6.5
30	MP3A	Mx	-.022	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP4A	X	35.487	2.5
2	MP4A	Z	61.464	2.5
3	MP4A	Mx	-.018	2.5
4	MP4A	X	35.487	4.5
5	MP4A	Z	61.464	4.5
6	MP4A	Mx	-.018	4.5
7	MP4A	X	33.455	1
8	MP4A	Z	57.946	1
9	MP4A	Mx	.017	1
10	MP3A	X	32.297	.5
11	MP3A	Z	55.94	.5
12	MP3A	Mx	.016	.5
13	MP1A	X	102.673	.5
14	MP1A	Z	177.835	.5
15	MP1A	Mx	-.051	.5
16	MP1A	X	102.673	6.5
17	MP1A	Z	177.835	6.5
18	MP1A	Mx	-.051	6.5
19	MP3A	X	72.851	.5
20	MP3A	Z	126.182	.5
21	MP3A	Mx	-.1	.5
22	MP3A	X	72.851	6.5
23	MP3A	Z	126.182	6.5
24	MP3A	Mx	-.1	6.5
25	MP3A	X	72.851	.5
26	MP3A	Z	126.182	.5
27	MP3A	Mx	.027	.5
28	MP3A	X	72.851	6.5
29	MP3A	Z	126.182	6.5
30	MP3A	Mx	.027	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP4A	X	0	2.5
2	MP4A	Z	83.882	2.5
3	MP4A	Mx	0	2.5
4	MP4A	X	0	4.5
5	MP4A	Z	83.882	4.5
6	MP4A	Mx	0	4.5
7	MP4A	X	0	1
8	MP4A	Z	72.958	1
9	MP4A	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	72.958	.5
12	MP3A	Mx	0	.5
13	MP1A	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP1A	Z	223.75	.5
15	MP1A	Mx	0	.5
16	MP1A	X	0	6.5
17	MP1A	Z	223.75	6.5
18	MP1A	Mx	0	6.5
19	MP3A	X	0	.5
20	MP3A	Z	159.18	.5
21	MP3A	Mx	-.08	.5
22	MP3A	X	0	6.5
23	MP3A	Z	159.18	6.5
24	MP3A	Mx	-.08	6.5
25	MP3A	X	0	.5
26	MP3A	Z	159.18	.5
27	MP3A	Mx	.08	.5
28	MP3A	X	0	6.5
29	MP3A	Z	159.18	6.5
30	MP3A	Mx	.08	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-35.487	2.5
2	MP4A	Z	61.464	2.5
3	MP4A	Mx	.018	2.5
4	MP4A	X	-35.487	4.5
5	MP4A	Z	61.464	4.5
6	MP4A	Mx	.018	4.5
7	MP4A	X	-33.455	1
8	MP4A	Z	57.946	1
9	MP4A	Mx	-.017	1
10	MP3A	X	-32.297	.5
11	MP3A	Z	55.94	.5
12	MP3A	Mx	-.016	.5
13	MP1A	X	-102.673	.5
14	MP1A	Z	177.835	.5
15	MP1A	Mx	.051	.5
16	MP1A	X	-102.673	6.5
17	MP1A	Z	177.835	6.5
18	MP1A	Mx	.051	6.5
19	MP3A	X	-72.851	.5
20	MP3A	Z	126.182	.5
21	MP3A	Mx	-.027	.5
22	MP3A	X	-72.851	6.5
23	MP3A	Z	126.182	6.5
24	MP3A	Mx	-.027	6.5
25	MP3A	X	-72.851	.5
26	MP3A	Z	126.182	.5
27	MP3A	Mx	.1	.5
28	MP3A	X	-72.851	6.5
29	MP3A	Z	126.182	6.5
30	MP3A	Mx	.1	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-39.106	2.5
2	MP4A	Z	22.578	2.5
3	MP4A	Mx	.02	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP4A	X	-39.106	4.5
5	MP4A	Z	22.578	4.5
6	MP4A	Mx	.02	4.5
7	MP4A	X	-47.472	1
8	MP4A	Z	27.408	1
9	MP4A	Mx	-.024	1
10	MP3A	X	-41.453	.5
11	MP3A	Z	23.933	.5
12	MP3A	Mx	-.021	.5
13	MP1A	X	-145.96	.5
14	MP1A	Z	84.27	.5
15	MP1A	Mx	.073	.5
16	MP1A	X	-145.96	6.5
17	MP1A	Z	84.27	6.5
18	MP1A	Mx	.073	6.5
19	MP3A	X	-102.837	.5
20	MP3A	Z	59.373	.5
21	MP3A	Mx	.022	.5
22	MP3A	X	-102.837	6.5
23	MP3A	Z	59.373	6.5
24	MP3A	Mx	.022	6.5
25	MP3A	X	-102.837	.5
26	MP3A	Z	59.373	.5
27	MP3A	Mx	.081	.5
28	MP3A	X	-102.837	6.5
29	MP3A	Z	59.373	6.5
30	MP3A	Mx	.081	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-32.247	2.5
2	MP4A	Z	0	2.5
3	MP4A	Mx	.016	2.5
4	MP4A	X	-32.247	4.5
5	MP4A	Z	0	4.5
6	MP4A	Mx	.016	4.5
7	MP4A	X	-48.768	1
8	MP4A	Z	0	1
9	MP4A	Mx	-.024	1
10	MP3A	X	-39.502	.5
11	MP3A	Z	0	.5
12	MP3A	Mx	-.02	.5
13	MP1A	X	-150.136	.5
14	MP1A	Z	0	.5
15	MP1A	Mx	.075	.5
16	MP1A	X	-150.136	6.5
17	MP1A	Z	0	6.5
18	MP1A	Mx	.075	6.5
19	MP3A	X	-105.267	.5
20	MP3A	Z	0	.5
21	MP3A	Mx	.053	.5
22	MP3A	X	-105.267	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	.053	6.5
25	MP3A	X	-105.267	.5
26	MP3A	Z	0	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3A	Mx	.053	.5
28	MP3A	X	-105.267	6.5
29	MP3A	Z	0	6.5
30	MP3A	Mx	.053	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-39.106	2.5
2	MP4A	Z	-22.578	2.5
3	MP4A	Mx	.02	2.5
4	MP4A	X	-39.106	4.5
5	MP4A	Z	-22.578	4.5
6	MP4A	Mx	.02	4.5
7	MP4A	X	-47.472	1
8	MP4A	Z	-27.408	1
9	MP4A	Mx	-.024	1
10	MP3A	X	-41.453	.5
11	MP3A	Z	-23.933	.5
12	MP3A	Mx	-.021	.5
13	MP1A	X	-145.96	.5
14	MP1A	Z	-84.27	.5
15	MP1A	Mx	.073	.5
16	MP1A	X	-145.96	6.5
17	MP1A	Z	-84.27	6.5
18	MP1A	Mx	.073	6.5
19	MP3A	X	-102.837	.5
20	MP3A	Z	-59.373	.5
21	MP3A	Mx	.081	.5
22	MP3A	X	-102.837	6.5
23	MP3A	Z	-59.373	6.5
24	MP3A	Mx	.081	6.5
25	MP3A	X	-102.837	.5
26	MP3A	Z	-59.373	.5
27	MP3A	Mx	.022	.5
28	MP3A	X	-102.837	6.5
29	MP3A	Z	-59.373	6.5
30	MP3A	Mx	.022	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-35.487	2.5
2	MP4A	Z	-61.464	2.5
3	MP4A	Mx	.018	2.5
4	MP4A	X	-35.487	4.5
5	MP4A	Z	-61.464	4.5
6	MP4A	Mx	.018	4.5
7	MP4A	X	-33.455	1
8	MP4A	Z	-57.946	1
9	MP4A	Mx	-.017	1
10	MP3A	X	-32.297	.5
11	MP3A	Z	-55.94	.5
12	MP3A	Mx	-.016	.5
13	MP1A	X	-102.673	.5
14	MP1A	Z	-177.835	.5
15	MP1A	Mx	.051	.5
16	MP1A	X	-102.673	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
17	MP1A	Z	-177.835	6.5
18	MP1A	Mx	.051	6.5
19	MP3A	X	-72.851	.5
20	MP3A	Z	-126.182	.5
21	MP3A	Mx	.1	.5
22	MP3A	X	-72.851	6.5
23	MP3A	Z	-126.182	6.5
24	MP3A	Mx	.1	6.5
25	MP3A	X	-72.851	.5
26	MP3A	Z	-126.182	.5
27	MP3A	Mx	-.027	.5
28	MP3A	X	-72.851	6.5
29	MP3A	Z	-126.182	6.5
30	MP3A	Mx	-.027	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	0	2.5
2	MP4A	Z	-18.061	2.5
3	MP4A	Mx	0	2.5
4	MP4A	X	0	4.5
5	MP4A	Z	-18.061	4.5
6	MP4A	Mx	0	4.5
7	MP4A	X	0	1
8	MP4A	Z	-16.988	1
9	MP4A	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	-16.988	.5
12	MP3A	Mx	0	.5
13	MP1A	X	0	.5
14	MP1A	Z	-45.745	.5
15	MP1A	Mx	0	.5
16	MP1A	X	0	6.5
17	MP1A	Z	-45.745	6.5
18	MP1A	Mx	0	6.5
19	MP3A	X	0	.5
20	MP3A	Z	-32.992	.5
21	MP3A	Mx	.016	.5
22	MP3A	X	0	6.5
23	MP3A	Z	-32.992	6.5
24	MP3A	Mx	.016	6.5
25	MP3A	X	0	.5
26	MP3A	Z	-32.992	.5
27	MP3A	Mx	-.016	.5
28	MP3A	X	0	6.5
29	MP3A	Z	-32.992	6.5
30	MP3A	Mx	-.016	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	7.762	2.5
2	MP4A	Z	-13.445	2.5
3	MP4A	Mx	-.004	2.5
4	MP4A	X	7.762	4.5
5	MP4A	Z	-13.445	4.5
6	MP4A	Mx	-.004	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
7	MP4A	X	7.874	1
8	MP4A	Z	-13.639	1
9	MP4A	Mx	.004	1
10	MP3A	X	7.639	.5
11	MP3A	Z	-13.231	.5
12	MP3A	Mx	.004	.5
13	MP1A	X	21.185	.5
14	MP1A	Z	-36.693	.5
15	MP1A	Mx	-.011	.5
16	MP1A	X	21.185	6.5
17	MP1A	Z	-36.693	6.5
18	MP1A	Mx	-.011	6.5
19	MP3A	X	15.269	.5
20	MP3A	Z	-26.446	.5
21	MP3A	Mx	.006	.5
22	MP3A	X	15.269	6.5
23	MP3A	Z	-26.446	6.5
24	MP3A	Mx	.006	6.5
25	MP3A	X	15.269	.5
26	MP3A	Z	-26.446	.5
27	MP3A	Mx	-.021	.5
28	MP3A	X	15.269	6.5
29	MP3A	Z	-26.446	6.5
30	MP3A	Mx	-.021	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	9.051	2.5
2	MP4A	Z	-5.226	2.5
3	MP4A	Mx	-.005	2.5
4	MP4A	X	9.051	4.5
5	MP4A	Z	-5.226	4.5
6	MP4A	Mx	-.005	4.5
7	MP4A	X	11.493	1
8	MP4A	Z	-6.636	1
9	MP4A	Mx	.006	1
10	MP3A	X	10.27	.5
11	MP3A	Z	-5.93	.5
12	MP3A	Mx	.005	.5
13	MP1A	X	30.846	.5
14	MP1A	Z	-17.809	.5
15	MP1A	Mx	-.015	.5
16	MP1A	X	30.846	6.5
17	MP1A	Z	-17.809	6.5
18	MP1A	Mx	-.015	6.5
19	MP3A	X	22.193	.5
20	MP3A	Z	-12.813	.5
21	MP3A	Mx	-.005	.5
22	MP3A	X	22.193	6.5
23	MP3A	Z	-12.813	6.5
24	MP3A	Mx	-.005	6.5
25	MP3A	X	22.193	.5
26	MP3A	Z	-12.813	.5
27	MP3A	Mx	-.018	.5
28	MP3A	X	22.193	6.5
29	MP3A	Z	-12.813	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP3A	Z	12.813	.5
21	MP3A	Mx	-.018	.5
22	MP3A	X	22.193	6.5
23	MP3A	Z	12.813	6.5
24	MP3A	Mx	-.018	6.5
25	MP3A	X	22.193	.5
26	MP3A	Z	12.813	.5
27	MP3A	Mx	-.005	.5
28	MP3A	X	22.193	6.5
29	MP3A	Z	12.813	6.5
30	MP3A	Mx	-.005	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	7.762	2.5
2	MP4A	Z	13.445	2.5
3	MP4A	Mx	-.004	2.5
4	MP4A	X	7.762	4.5
5	MP4A	Z	13.445	4.5
6	MP4A	Mx	-.004	4.5
7	MP4A	X	7.874	1
8	MP4A	Z	13.639	1
9	MP4A	Mx	.004	1
10	MP3A	X	7.639	.5
11	MP3A	Z	13.231	.5
12	MP3A	Mx	.004	.5
13	MP1A	X	21.185	.5
14	MP1A	Z	36.693	.5
15	MP1A	Mx	-.011	.5
16	MP1A	X	21.185	6.5
17	MP1A	Z	36.693	6.5
18	MP1A	Mx	-.011	6.5
19	MP3A	X	15.269	.5
20	MP3A	Z	26.446	.5
21	MP3A	Mx	-.021	.5
22	MP3A	X	15.269	6.5
23	MP3A	Z	26.446	6.5
24	MP3A	Mx	-.021	6.5
25	MP3A	X	15.269	.5
26	MP3A	Z	26.446	.5
27	MP3A	Mx	.006	.5
28	MP3A	X	15.269	6.5
29	MP3A	Z	26.446	6.5
30	MP3A	Mx	.006	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	2.5
2	MP4A	Z	18.061	2.5
3	MP4A	Mx	0	2.5
4	MP4A	X	0	4.5
5	MP4A	Z	18.061	4.5
6	MP4A	Mx	0	4.5
7	MP4A	X	0	1
8	MP4A	Z	16.988	1
9	MP4A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
10	MP3A	X	0	.5
11	MP3A	Z	16.988	.5
12	MP3A	Mx	0	.5
13	MP1A	X	0	.5
14	MP1A	Z	45.745	.5
15	MP1A	Mx	0	.5
16	MP1A	X	0	6.5
17	MP1A	Z	45.745	6.5
18	MP1A	Mx	0	6.5
19	MP3A	X	0	.5
20	MP3A	Z	32.992	.5
21	MP3A	Mx	-.016	.5
22	MP3A	X	0	6.5
23	MP3A	Z	32.992	6.5
24	MP3A	Mx	-.016	6.5
25	MP3A	X	0	.5
26	MP3A	Z	32.992	.5
27	MP3A	Mx	.016	.5
28	MP3A	X	0	6.5
29	MP3A	Z	32.992	6.5
30	MP3A	Mx	.016	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-7.762	2.5
2	MP4A	Z	13.445	2.5
3	MP4A	Mx	.004	2.5
4	MP4A	X	-7.762	4.5
5	MP4A	Z	13.445	4.5
6	MP4A	Mx	.004	4.5
7	MP4A	X	-7.874	1
8	MP4A	Z	13.639	1
9	MP4A	Mx	-.004	1
10	MP3A	X	-7.639	.5
11	MP3A	Z	13.231	.5
12	MP3A	Mx	-.004	.5
13	MP1A	X	-21.185	.5
14	MP1A	Z	36.693	.5
15	MP1A	Mx	.011	.5
16	MP1A	X	-21.185	6.5
17	MP1A	Z	36.693	6.5
18	MP1A	Mx	.011	6.5
19	MP3A	X	-15.269	.5
20	MP3A	Z	26.446	.5
21	MP3A	Mx	-.006	.5
22	MP3A	X	-15.269	6.5
23	MP3A	Z	26.446	6.5
24	MP3A	Mx	-.006	6.5
25	MP3A	X	-15.269	.5
26	MP3A	Z	26.446	.5
27	MP3A	Mx	.021	.5
28	MP3A	X	-15.269	6.5
29	MP3A	Z	26.446	6.5
30	MP3A	Mx	.021	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
24	MP3A	Mx	.012	6.5
25	MP3A	X	-23.171	.5
26	MP3A	Z	0	.5
27	MP3A	Mx	.012	.5
28	MP3A	X	-23.171	6.5
29	MP3A	Z	0	6.5
30	MP3A	Mx	.012	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-9.051	2.5
2	MP4A	Z	-5.226	2.5
3	MP4A	Mx	.005	2.5
4	MP4A	X	-9.051	4.5
5	MP4A	Z	-5.226	4.5
6	MP4A	Mx	.005	4.5
7	MP4A	X	-11.493	1
8	MP4A	Z	-6.636	1
9	MP4A	Mx	-.006	1
10	MP3A	X	-10.27	.5
11	MP3A	Z	-5.93	.5
12	MP3A	Mx	-.005	.5
13	MP1A	X	-30.846	.5
14	MP1A	Z	-17.809	.5
15	MP1A	Mx	.015	.5
16	MP1A	X	-30.846	6.5
17	MP1A	Z	-17.809	6.5
18	MP1A	Mx	.015	6.5
19	MP3A	X	-22.193	.5
20	MP3A	Z	-12.813	.5
21	MP3A	Mx	.018	.5
22	MP3A	X	-22.193	6.5
23	MP3A	Z	-12.813	6.5
24	MP3A	Mx	.018	6.5
25	MP3A	X	-22.193	.5
26	MP3A	Z	-12.813	.5
27	MP3A	Mx	.005	.5
28	MP3A	X	-22.193	6.5
29	MP3A	Z	-12.813	6.5
30	MP3A	Mx	.005	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-7.762	2.5
2	MP4A	Z	-13.445	2.5
3	MP4A	Mx	.004	2.5
4	MP4A	X	-7.762	4.5
5	MP4A	Z	-13.445	4.5
6	MP4A	Mx	.004	4.5
7	MP4A	X	-7.874	1
8	MP4A	Z	-13.639	1
9	MP4A	Mx	-.004	1
10	MP3A	X	-7.639	.5
11	MP3A	Z	-13.231	.5
12	MP3A	Mx	-.004	.5
13	MP1A	X	-21.185	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP1A	Z	-36.693	.5
15	MP1A	Mx	.011	.5
16	MP1A	X	-21.185	6.5
17	MP1A	Z	-36.693	6.5
18	MP1A	Mx	.011	6.5
19	MP3A	X	-15.269	.5
20	MP3A	Z	-26.446	.5
21	MP3A	Mx	.021	.5
22	MP3A	X	-15.269	6.5
23	MP3A	Z	-26.446	6.5
24	MP3A	Mx	.021	6.5
25	MP3A	X	-15.269	.5
26	MP3A	Z	-26.446	.5
27	MP3A	Mx	-.006	.5
28	MP3A	X	-15.269	6.5
29	MP3A	Z	-26.446	6.5
30	MP3A	Mx	-.006	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	2.5
2	MP4A	Z	-5.422	2.5
3	MP4A	Mx	0	2.5
4	MP4A	X	0	4.5
5	MP4A	Z	-5.422	4.5
6	MP4A	Mx	0	4.5
7	MP4A	X	0	1
8	MP4A	Z	-4.716	1
9	MP4A	Mx	0	1
10	MP3A	X	0	.5
11	MP3A	Z	-4.716	.5
12	MP3A	Mx	0	.5
13	MP1A	X	0	.5
14	MP1A	Z	-14.462	.5
15	MP1A	Mx	0	.5
16	MP1A	X	0	6.5
17	MP1A	Z	-14.462	6.5
18	MP1A	Mx	0	6.5
19	MP3A	X	0	.5
20	MP3A	Z	-10.289	.5
21	MP3A	Mx	.005	.5
22	MP3A	X	0	6.5
23	MP3A	Z	-10.289	6.5
24	MP3A	Mx	.005	6.5
25	MP3A	X	0	.5
26	MP3A	Z	-10.289	.5
27	MP3A	Mx	-.005	.5
28	MP3A	X	0	6.5
29	MP3A	Z	-10.289	6.5
30	MP3A	Mx	-.005	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.294	2.5
2	MP4A	Z	-3.973	2.5
3	MP4A	Mx	-.001	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP4A	X	2.294	4.5
5	MP4A	Z	-3.973	4.5
6	MP4A	Mx	-.001	4.5
7	MP4A	X	2.162	1
8	MP4A	Z	-3.745	1
9	MP4A	Mx	.001	1
10	MP3A	X	2.088	.5
11	MP3A	Z	-3.616	.5
12	MP3A	Mx	.001	.5
13	MP1A	X	6.636	.5
14	MP1A	Z	-11.495	.5
15	MP1A	Mx	-.003	.5
16	MP1A	X	6.636	6.5
17	MP1A	Z	-11.495	6.5
18	MP1A	Mx	-.003	6.5
19	MP3A	X	4.709	.5
20	MP3A	Z	-8.156	.5
21	MP3A	Mx	.002	.5
22	MP3A	X	4.709	6.5
23	MP3A	Z	-8.156	6.5
24	MP3A	Mx	.002	6.5
25	MP3A	X	4.709	.5
26	MP3A	Z	-8.156	.5
27	MP3A	Mx	-.006	.5
28	MP3A	X	4.709	6.5
29	MP3A	Z	-8.156	6.5
30	MP3A	Mx	-.006	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.528	2.5
2	MP4A	Z	-1.459	2.5
3	MP4A	Mx	-.001	2.5
4	MP4A	X	2.528	4.5
5	MP4A	Z	-1.459	4.5
6	MP4A	Mx	-.001	4.5
7	MP4A	X	3.068	1
8	MP4A	Z	-1.772	1
9	MP4A	Mx	.002	1
10	MP3A	X	2.679	.5
11	MP3A	Z	-1.547	.5
12	MP3A	Mx	.001	.5
13	MP1A	X	9.434	.5
14	MP1A	Z	-5.447	.5
15	MP1A	Mx	-.005	.5
16	MP1A	X	9.434	6.5
17	MP1A	Z	-5.447	6.5
18	MP1A	Mx	-.005	6.5
19	MP3A	X	6.647	.5
20	MP3A	Z	-3.838	.5
21	MP3A	Mx	-.001	.5
22	MP3A	X	6.647	6.5
23	MP3A	Z	-3.838	6.5
24	MP3A	Mx	-.001	6.5
25	MP3A	X	6.647	.5
26	MP3A	Z	-3.838	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3A	Mx	-0.005	.5
28	MP3A	X	6.647	6.5
29	MP3A	Z	-3.838	6.5
30	MP3A	Mx	-0.005	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.084	2.5
2	MP4A	Z	0	2.5
3	MP4A	Mx	-0.001	2.5
4	MP4A	X	2.084	4.5
5	MP4A	Z	0	4.5
6	MP4A	Mx	-0.001	4.5
7	MP4A	X	3.152	1
8	MP4A	Z	0	1
9	MP4A	Mx	.002	1
10	MP3A	X	2.553	.5
11	MP3A	Z	0	.5
12	MP3A	Mx	.001	.5
13	MP1A	X	9.704	.5
14	MP1A	Z	0	.5
15	MP1A	Mx	-0.005	.5
16	MP1A	X	9.704	6.5
17	MP1A	Z	0	6.5
18	MP1A	Mx	-0.005	6.5
19	MP3A	X	6.804	.5
20	MP3A	Z	0	.5
21	MP3A	Mx	-0.003	.5
22	MP3A	X	6.804	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	-0.003	6.5
25	MP3A	X	6.804	.5
26	MP3A	Z	0	.5
27	MP3A	Mx	-0.003	.5
28	MP3A	X	6.804	6.5
29	MP3A	Z	0	6.5
30	MP3A	Mx	-0.003	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.528	2.5
2	MP4A	Z	1.459	2.5
3	MP4A	Mx	-0.001	2.5
4	MP4A	X	2.528	4.5
5	MP4A	Z	1.459	4.5
6	MP4A	Mx	-0.001	4.5
7	MP4A	X	3.068	1
8	MP4A	Z	1.772	1
9	MP4A	Mx	.002	1
10	MP3A	X	2.679	.5
11	MP3A	Z	1.547	.5
12	MP3A	Mx	.001	.5
13	MP1A	X	9.434	.5
14	MP1A	Z	5.447	.5
15	MP1A	Mx	-0.005	.5
16	MP1A	X	9.434	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP3A	Z	0	.5
21	MP3A	Mx	.003	.5
22	MP3A	X	-6.804	6.5
23	MP3A	Z	0	6.5
24	MP3A	Mx	.003	6.5
25	MP3A	X	-6.804	.5
26	MP3A	Z	0	.5
27	MP3A	Mx	.003	.5
28	MP3A	X	-6.804	6.5
29	MP3A	Z	0	6.5
30	MP3A	Mx	.003	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-2.528	2.5
2	MP4A	Z	-1.459	2.5
3	MP4A	Mx	.001	2.5
4	MP4A	X	-2.528	4.5
5	MP4A	Z	-1.459	4.5
6	MP4A	Mx	.001	4.5
7	MP4A	X	-3.068	1
8	MP4A	Z	-1.772	1
9	MP4A	Mx	-.002	1
10	MP3A	X	-2.679	.5
11	MP3A	Z	-1.547	.5
12	MP3A	Mx	-.001	.5
13	MP1A	X	-9.434	.5
14	MP1A	Z	-5.447	.5
15	MP1A	Mx	.005	.5
16	MP1A	X	-9.434	6.5
17	MP1A	Z	-5.447	6.5
18	MP1A	Mx	.005	6.5
19	MP3A	X	-6.647	.5
20	MP3A	Z	-3.838	.5
21	MP3A	Mx	.005	.5
22	MP3A	X	-6.647	6.5
23	MP3A	Z	-3.838	6.5
24	MP3A	Mx	.005	6.5
25	MP3A	X	-6.647	.5
26	MP3A	Z	-3.838	.5
27	MP3A	Mx	.001	.5
28	MP3A	X	-6.647	6.5
29	MP3A	Z	-3.838	6.5
30	MP3A	Mx	.001	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-2.294	2.5
2	MP4A	Z	-3.973	2.5
3	MP4A	Mx	.001	2.5
4	MP4A	X	-2.294	4.5
5	MP4A	Z	-3.973	4.5
6	MP4A	Mx	.001	4.5
7	MP4A	X	-2.162	1
8	MP4A	Z	-3.745	1
9	MP4A	Mx	-.001	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
10	MP3A	X	-2.088	.5
11	MP3A	Z	-3.616	.5
12	MP3A	Mx	-.001	.5
13	MP1A	X	-6.636	.5
14	MP1A	Z	-11.495	.5
15	MP1A	Mx	.003	.5
16	MP1A	X	-6.636	6.5
17	MP1A	Z	-11.495	6.5
18	MP1A	Mx	.003	6.5
19	MP3A	X	-4.709	.5
20	MP3A	Z	-8.156	.5
21	MP3A	Mx	.006	.5
22	MP3A	X	-4.709	6.5
23	MP3A	Z	-8.156	6.5
24	MP3A	Mx	.006	6.5
25	MP3A	X	-4.709	.5
26	MP3A	Z	-8.156	.5
27	MP3A	Mx	-.002	.5
28	MP3A	X	-4.709	6.5
29	MP3A	Z	-8.156	6.5
30	MP3A	Mx	-.002	6.5

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M1	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb.ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	Y	-9.461	-9.461	0	%100
2	M2	Y	-9.461	-9.461	0	%100
3	M13	Y	-10.869	-10.869	0	%100
4	M14	Y	-10.869	-10.869	0	%100
5	M15	Y	-10.869	-10.869	0	%100
6	M16	Y	-10.869	-10.869	0	%100
7	M17	Y	-8.425	-8.425	0	%100
8	M18	Y	-8.425	-8.425	0	%100
9	M19	Y	-8.425	-8.425	0	%100
10	M20	Y	-8.425	-8.425	0	%100
11	M21	Y	-10.869	-10.869	0	%100
12	M22	Y	-10.869	-10.869	0	%100
13	M23	Y	-10.869	-10.869	0	%100
14	M24	Y	-10.869	-10.869	0	%100
15	M25	Y	-5.061	-5.061	0	%100
16	M26	Y	-5.061	-5.061	0	%100
17	M27	Y	-5.061	-5.061	0	%100
18	M28	Y	-5.061	-5.061	0	%100
19	M31	Y	-8.425	-8.425	0	%100
20	M32	Y	-8.425	-8.425	0	%100
21	MP4A	Y	-8.425	-8.425	0	%100
22	MP3A	Y	-8.425	-8.425	0	%100
23	MP2A	Y	-8.425	-8.425	0	%100
24	MP1A	Y	-8.425	-8.425	0	%100
25	M44	Y	-4.802	-4.802	0	%100
26	M45	Y	-4.802	-4.802	0	%100
27	M46	Y	-4.802	-4.802	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
28	M47	Y	-4.802	-4.802	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	%100
2	M1	Z	-11.217	-11.217	0 %100
3	M2	X	0	0	%100
4	M2	Z	-11.217	-11.217	0 %100
5	M13	X	0	0	%100
6	M13	Z	0	0	%100
7	M14	X	0	0	%100
8	M14	Z	0	0	%100
9	M15	X	0	0	%100
10	M15	Z	0	0	%100
11	M16	X	0	0	%100
12	M16	Z	0	0	%100
13	M17	X	0	0	%100
14	M17	Z	-4.429	-4.429	0 %100
15	M18	X	0	0	%100
16	M18	Z	-4.429	-4.429	0 %100
17	M19	X	0	0	%100
18	M19	Z	-4.429	-4.429	0 %100
19	M20	X	0	0	%100
20	M20	Z	-4.429	-4.429	0 %100
21	M21	X	0	0	%100
22	M21	Z	-2.438	-2.438	0 %100
23	M22	X	0	0	%100
24	M22	Z	-2.438	-2.438	0 %100
25	M23	X	0	0	%100
26	M23	Z	-2.438	-2.438	0 %100
27	M24	X	0	0	%100
28	M24	Z	-2.438	-2.438	0 %100
29	M25	X	0	0	%100
30	M25	Z	-2.526	-2.526	0 %100
31	M26	X	0	0	%100
32	M26	Z	-2.526	-2.526	0 %100
33	M27	X	0	0	%100
34	M27	Z	-2.526	-2.526	0 %100
35	M28	X	0	0	%100
36	M28	Z	-2.526	-2.526	0 %100
37	M31	X	0	0	%100
38	M31	Z	0	0	%100
39	M32	X	0	0	%100
40	M32	Z	0	0	%100
41	MP4A	X	0	0	%100
42	MP4A	Z	-8.064	-8.064	0 %100
43	MP3A	X	0	0	%100
44	MP3A	Z	-8.064	-8.064	0 %100
45	MP2A	X	0	0	%100
46	MP2A	Z	-8.064	-8.064	0 %100
47	MP1A	X	0	0	%100
48	MP1A	Z	-8.064	-8.064	0 %100
49	M44	X	0	0	%100
50	M44	Z	-2.438	-2.438	0 %100
51	M45	X	0	0	%100
52	M45	Z	-2.438	-2.438	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
53	M46	X	0	0	0	%100
54	M46	Z	-2.438	-2.438	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-2.438	-2.438	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	4.206	4.206	0	%100
2	M1	Z	-7.285	-7.285	0	%100
3	M2	X	4.206	4.206	0	%100
4	M2	Z	-7.285	-7.285	0	%100
5	M13	X	.305	.305	0	%100
6	M13	Z	-.528	-.528	0	%100
7	M14	X	.305	.305	0	%100
8	M14	Z	-.528	-.528	0	%100
9	M15	X	.305	.305	0	%100
10	M15	Z	-.528	-.528	0	%100
11	M16	X	.305	.305	0	%100
12	M16	Z	-.528	-.528	0	%100
13	M17	X	.499	.499	0	%100
14	M17	Z	-.863	-.863	0	%100
15	M18	X	.499	.499	0	%100
16	M18	Z	-.863	-.863	0	%100
17	M19	X	3.502	3.502	0	%100
18	M19	Z	-6.065	-6.065	0	%100
19	M20	X	3.502	3.502	0	%100
20	M20	Z	-6.065	-6.065	0	%100
21	M21	X	.914	.914	0	%100
22	M21	Z	-1.584	-1.584	0	%100
23	M22	X	.914	.914	0	%100
24	M22	Z	-1.584	-1.584	0	%100
25	M23	X	.914	.914	0	%100
26	M23	Z	-1.584	-1.584	0	%100
27	M24	X	.914	.914	0	%100
28	M24	Z	-1.584	-1.584	0	%100
29	M25	X	1.01	1.01	0	%100
30	M25	Z	-1.749	-1.749	0	%100
31	M26	X	1.01	1.01	0	%100
32	M26	Z	-1.749	-1.749	0	%100
33	M27	X	1.453	1.453	0	%100
34	M27	Z	-2.516	-2.516	0	%100
35	M28	X	1.453	1.453	0	%100
36	M28	Z	-2.516	-2.516	0	%100
37	M31	X	1.158	1.158	0	%100
38	M31	Z	-2.006	-2.006	0	%100
39	M32	X	1.158	1.158	0	%100
40	M32	Z	-2.006	-2.006	0	%100
41	MP4A	X	4.182	4.182	0	%100
42	MP4A	Z	-7.244	-7.244	0	%100
43	MP3A	X	4.182	4.182	0	%100
44	MP3A	Z	-7.244	-7.244	0	%100
45	MP2A	X	4.182	4.182	0	%100
46	MP2A	Z	-7.244	-7.244	0	%100
47	MP1A	X	4.182	4.182	0	%100
48	MP1A	Z	-7.244	-7.244	0	%100
49	M44	X	1.219	1.219	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
50	M44	Z	-2.112	-2.112	0	%100
51	M45	X	1.219	1.219	0	%100
52	M45	Z	-2.112	-2.112	0	%100
53	M46	X	1.219	1.219	0	%100
54	M46	Z	-2.112	-2.112	0	%100
55	M47	X	1.219	1.219	0	%100
56	M47	Z	-2.112	-2.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	2.428	2.428	0	%100
2	M1	Z	-1.402	-1.402	0	%100
3	M2	X	2.428	2.428	0	%100
4	M2	Z	-1.402	-1.402	0	%100
5	M13	X	1.584	1.584	0	%100
6	M13	Z	-.914	-.914	0	%100
7	M14	X	1.584	1.584	0	%100
8	M14	Z	-.914	-.914	0	%100
9	M15	X	1.584	1.584	0	%100
10	M15	Z	-.914	-.914	0	%100
11	M16	X	1.584	1.584	0	%100
12	M16	Z	-.914	-.914	0	%100
13	M17	X	.122	.122	0	%100
14	M17	Z	-.07	-.07	0	%100
15	M18	X	.122	.122	0	%100
16	M18	Z	-.07	-.07	0	%100
17	M19	X	5.324	5.324	0	%100
18	M19	Z	-3.074	-3.074	0	%100
19	M20	X	5.324	5.324	0	%100
20	M20	Z	-3.074	-3.074	0	%100
21	M21	X	.528	.528	0	%100
22	M21	Z	-.305	-.305	0	%100
23	M22	X	.528	.528	0	%100
24	M22	Z	-.305	-.305	0	%100
25	M23	X	.528	.528	0	%100
26	M23	Z	-.305	-.305	0	%100
27	M24	X	.528	.528	0	%100
28	M24	Z	-.305	-.305	0	%100
29	M25	X	1.64	1.64	0	%100
30	M25	Z	-.947	-.947	0	%100
31	M26	X	1.64	1.64	0	%100
32	M26	Z	-.947	-.947	0	%100
33	M27	X	2.407	2.407	0	%100
34	M27	Z	-1.39	-1.39	0	%100
35	M28	X	2.407	2.407	0	%100
36	M28	Z	-1.39	-1.39	0	%100
37	M31	X	6.018	6.018	0	%100
38	M31	Z	-3.475	-3.475	0	%100
39	M32	X	6.018	6.018	0	%100
40	M32	Z	-3.475	-3.475	0	%100
41	MP4A	X	7.764	7.764	0	%100
42	MP4A	Z	-4.483	-4.483	0	%100
43	MP3A	X	7.764	7.764	0	%100
44	MP3A	Z	-4.483	-4.483	0	%100
45	MP2A	X	7.764	7.764	0	%100
46	MP2A	Z	-4.483	-4.483	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
47	MP1A	X	7.764	7.764	0	%100
48	MP1A	Z	-4.483	-4.483	0	%100
49	M44	X	2.112	2.112	0	%100
50	M44	Z	-1.219	-1.219	0	%100
51	M45	X	2.112	2.112	0	%100
52	M45	Z	-1.219	-1.219	0	%100
53	M46	X	2.112	2.112	0	%100
54	M46	Z	-1.219	-1.219	0	%100
55	M47	X	2.112	2.112	0	%100
56	M47	Z	-1.219	-1.219	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
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	M13	X	2.438	2.438	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	2.438	2.438	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	2.438	2.438	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	2.438	2.438	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.716	2.716	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.716	2.716	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.716	2.716	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.716	2.716	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	2.273	2.273	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	2.273	2.273	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	2.273	2.273	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	2.273	2.273	0	%100
36	M28	Z	0	0	0	%100
37	M31	X	9.266	9.266	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	9.266	9.266	0	%100
40	M32	Z	0	0	0	%100
41	MP4A	X	9.266	9.266	0	%100
42	MP4A	Z	0	0	0	%100
43	MP3A	X	9.266	9.266	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Locationft...	End Locationft....
44	MP3A	Z	0	0	0	%100
45	MP2A	X	9.266	9.266	0	%100
46	MP2A	Z	0	0	0	%100
47	MP1A	X	9.266	9.266	0	%100
48	MP1A	Z	0	0	0	%100
49	M44	X	2.438	2.438	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	2.438	2.438	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	2.438	2.438	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	2.438	2.438	0	%100
56	M47	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Locationft...	End Locationft....
1	M1	X	2.428	2.428	0	%100
2	M1	Z	1.402	1.402	0	%100
3	M2	X	2.428	2.428	0	%100
4	M2	Z	1.402	1.402	0	%100
5	M13	X	1.584	1.584	0	%100
6	M13	Z	.914	.914	0	%100
7	M14	X	1.584	1.584	0	%100
8	M14	Z	.914	.914	0	%100
9	M15	X	1.584	1.584	0	%100
10	M15	Z	.914	.914	0	%100
11	M16	X	1.584	1.584	0	%100
12	M16	Z	.914	.914	0	%100
13	M17	X	5.324	5.324	0	%100
14	M17	Z	3.074	3.074	0	%100
15	M18	X	5.324	5.324	0	%100
16	M18	Z	3.074	3.074	0	%100
17	M19	X	.122	.122	0	%100
18	M19	Z	.07	.07	0	%100
19	M20	X	.122	.122	0	%100
20	M20	Z	.07	.07	0	%100
21	M21	X	.528	.528	0	%100
22	M21	Z	.305	.305	0	%100
23	M22	X	.528	.528	0	%100
24	M22	Z	.305	.305	0	%100
25	M23	X	.528	.528	0	%100
26	M23	Z	.305	.305	0	%100
27	M24	X	.528	.528	0	%100
28	M24	Z	.305	.305	0	%100
29	M25	X	2.407	2.407	0	%100
30	M25	Z	1.39	1.39	0	%100
31	M26	X	2.407	2.407	0	%100
32	M26	Z	1.39	1.39	0	%100
33	M27	X	1.64	1.64	0	%100
34	M27	Z	.947	.947	0	%100
35	M28	X	1.64	1.64	0	%100
36	M28	Z	.947	.947	0	%100
37	M31	X	6.018	6.018	0	%100
38	M31	Z	3.475	3.475	0	%100
39	M32	X	6.018	6.018	0	%100
40	M32	Z	3.475	3.475	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
41	MP4A	X	7.764	7.764	0	%100
42	MP4A	Z	4.483	4.483	0	%100
43	MP3A	X	7.764	7.764	0	%100
44	MP3A	Z	4.483	4.483	0	%100
45	MP2A	X	7.764	7.764	0	%100
46	MP2A	Z	4.483	4.483	0	%100
47	MP1A	X	7.764	7.764	0	%100
48	MP1A	Z	4.483	4.483	0	%100
49	M44	X	2.112	2.112	0	%100
50	M44	Z	1.219	1.219	0	%100
51	M45	X	2.112	2.112	0	%100
52	M45	Z	1.219	1.219	0	%100
53	M46	X	2.112	2.112	0	%100
54	M46	Z	1.219	1.219	0	%100
55	M47	X	2.112	2.112	0	%100
56	M47	Z	1.219	1.219	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	4.206	4.206	0	%100
2	M1	Z	7.285	7.285	0	%100
3	M2	X	4.206	4.206	0	%100
4	M2	Z	7.285	7.285	0	%100
5	M13	X	.305	.305	0	%100
6	M13	Z	.528	.528	0	%100
7	M14	X	.305	.305	0	%100
8	M14	Z	.528	.528	0	%100
9	M15	X	.305	.305	0	%100
10	M15	Z	.528	.528	0	%100
11	M16	X	.305	.305	0	%100
12	M16	Z	.528	.528	0	%100
13	M17	X	3.502	3.502	0	%100
14	M17	Z	6.065	6.065	0	%100
15	M18	X	3.502	3.502	0	%100
16	M18	Z	6.065	6.065	0	%100
17	M19	X	.499	.499	0	%100
18	M19	Z	.863	.863	0	%100
19	M20	X	.499	.499	0	%100
20	M20	Z	.863	.863	0	%100
21	M21	X	.914	.914	0	%100
22	M21	Z	1.584	1.584	0	%100
23	M22	X	.914	.914	0	%100
24	M22	Z	1.584	1.584	0	%100
25	M23	X	.914	.914	0	%100
26	M23	Z	1.584	1.584	0	%100
27	M24	X	.914	.914	0	%100
28	M24	Z	1.584	1.584	0	%100
29	M25	X	1.453	1.453	0	%100
30	M25	Z	2.516	2.516	0	%100
31	M26	X	1.453	1.453	0	%100
32	M26	Z	2.516	2.516	0	%100
33	M27	X	1.01	1.01	0	%100
34	M27	Z	1.749	1.749	0	%100
35	M28	X	1.01	1.01	0	%100
36	M28	Z	1.749	1.749	0	%100
37	M31	X	1.158	1.158	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
38	M31	Z	2.006	2.006	0	%100
39	M32	X	1.158	1.158	0	%100
40	M32	Z	2.006	2.006	0	%100
41	MP4A	X	4.182	4.182	0	%100
42	MP4A	Z	7.244	7.244	0	%100
43	MP3A	X	4.182	4.182	0	%100
44	MP3A	Z	7.244	7.244	0	%100
45	MP2A	X	4.182	4.182	0	%100
46	MP2A	Z	7.244	7.244	0	%100
47	MP1A	X	4.182	4.182	0	%100
48	MP1A	Z	7.244	7.244	0	%100
49	M44	X	1.219	1.219	0	%100
50	M44	Z	2.112	2.112	0	%100
51	M45	X	1.219	1.219	0	%100
52	M45	Z	2.112	2.112	0	%100
53	M46	X	1.219	1.219	0	%100
54	M46	Z	2.112	2.112	0	%100
55	M47	X	1.219	1.219	0	%100
56	M47	Z	2.112	2.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	0	%100
2	M1	Z	11.217	11.217	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	11.217	11.217	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	4.429	4.429	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	4.429	4.429	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	4.429	4.429	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	4.429	4.429	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	2.438	2.438	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	2.438	2.438	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	2.438	2.438	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	2.438	2.438	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.526	2.526	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.526	2.526	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.526	2.526	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
35	M28	X	0	0	0	%100
36	M28	Z	2.526	2.526	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	0	0	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	8.064	8.064	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	8.064	8.064	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	8.064	8.064	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	8.064	8.064	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	2.438	2.438	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	2.438	2.438	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	2.438	2.438	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	2.438	2.438	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-4.206	-4.206	0	%100
2	M1	Z	7.285	7.285	0	%100
3	M2	X	-4.206	-4.206	0	%100
4	M2	Z	7.285	7.285	0	%100
5	M13	X	-.305	-.305	0	%100
6	M13	Z	.528	.528	0	%100
7	M14	X	-.305	-.305	0	%100
8	M14	Z	.528	.528	0	%100
9	M15	X	-.305	-.305	0	%100
10	M15	Z	.528	.528	0	%100
11	M16	X	-.305	-.305	0	%100
12	M16	Z	.528	.528	0	%100
13	M17	X	-.499	-.499	0	%100
14	M17	Z	.863	.863	0	%100
15	M18	X	-.499	-.499	0	%100
16	M18	Z	.863	.863	0	%100
17	M19	X	-3.502	-3.502	0	%100
18	M19	Z	6.065	6.065	0	%100
19	M20	X	-3.502	-3.502	0	%100
20	M20	Z	6.065	6.065	0	%100
21	M21	X	-.914	-.914	0	%100
22	M21	Z	1.584	1.584	0	%100
23	M22	X	-.914	-.914	0	%100
24	M22	Z	1.584	1.584	0	%100
25	M23	X	-.914	-.914	0	%100
26	M23	Z	1.584	1.584	0	%100
27	M24	X	-.914	-.914	0	%100
28	M24	Z	1.584	1.584	0	%100
29	M25	X	-1.01	-1.01	0	%100
30	M25	Z	1.749	1.749	0	%100
31	M26	X	-1.01	-1.01	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
32	M26	Z	1.749	1.749	0	%100
33	M27	X	-1.453	-1.453	0	%100
34	M27	Z	2.516	2.516	0	%100
35	M28	X	-1.453	-1.453	0	%100
36	M28	Z	2.516	2.516	0	%100
37	M31	X	-1.158	-1.158	0	%100
38	M31	Z	2.006	2.006	0	%100
39	M32	X	-1.158	-1.158	0	%100
40	M32	Z	2.006	2.006	0	%100
41	MP4A	X	-4.182	-4.182	0	%100
42	MP4A	Z	7.244	7.244	0	%100
43	MP3A	X	-4.182	-4.182	0	%100
44	MP3A	Z	7.244	7.244	0	%100
45	MP2A	X	-4.182	-4.182	0	%100
46	MP2A	Z	7.244	7.244	0	%100
47	MP1A	X	-4.182	-4.182	0	%100
48	MP1A	Z	7.244	7.244	0	%100
49	M44	X	-1.219	-1.219	0	%100
50	M44	Z	2.112	2.112	0	%100
51	M45	X	-1.219	-1.219	0	%100
52	M45	Z	2.112	2.112	0	%100
53	M46	X	-1.219	-1.219	0	%100
54	M46	Z	2.112	2.112	0	%100
55	M47	X	-1.219	-1.219	0	%100
56	M47	Z	2.112	2.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-2.428	-2.428	0	%100
2	M1	Z	1.402	1.402	0	%100
3	M2	X	-2.428	-2.428	0	%100
4	M2	Z	1.402	1.402	0	%100
5	M13	X	-1.584	-1.584	0	%100
6	M13	Z	.914	.914	0	%100
7	M14	X	-1.584	-1.584	0	%100
8	M14	Z	.914	.914	0	%100
9	M15	X	-1.584	-1.584	0	%100
10	M15	Z	.914	.914	0	%100
11	M16	X	-1.584	-1.584	0	%100
12	M16	Z	.914	.914	0	%100
13	M17	X	-.122	-.122	0	%100
14	M17	Z	.07	.07	0	%100
15	M18	X	-.122	-.122	0	%100
16	M18	Z	.07	.07	0	%100
17	M19	X	-5.324	-5.324	0	%100
18	M19	Z	3.074	3.074	0	%100
19	M20	X	-5.324	-5.324	0	%100
20	M20	Z	3.074	3.074	0	%100
21	M21	X	-.528	-.528	0	%100
22	M21	Z	.305	.305	0	%100
23	M22	X	-.528	-.528	0	%100
24	M22	Z	.305	.305	0	%100
25	M23	X	-.528	-.528	0	%100
26	M23	Z	.305	.305	0	%100
27	M24	X	-.528	-.528	0	%100
28	M24	Z	.305	.305	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
29	M25	X	-1.64	-1.64	0	%100
30	M25	Z	.947	.947	0	%100
31	M26	X	-1.64	-1.64	0	%100
32	M26	Z	.947	.947	0	%100
33	M27	X	-2.407	-2.407	0	%100
34	M27	Z	1.39	1.39	0	%100
35	M28	X	-2.407	-2.407	0	%100
36	M28	Z	1.39	1.39	0	%100
37	M31	X	-6.018	-6.018	0	%100
38	M31	Z	3.475	3.475	0	%100
39	M32	X	-6.018	-6.018	0	%100
40	M32	Z	3.475	3.475	0	%100
41	MP4A	X	-7.764	-7.764	0	%100
42	MP4A	Z	4.483	4.483	0	%100
43	MP3A	X	-7.764	-7.764	0	%100
44	MP3A	Z	4.483	4.483	0	%100
45	MP2A	X	-7.764	-7.764	0	%100
46	MP2A	Z	4.483	4.483	0	%100
47	MP1A	X	-7.764	-7.764	0	%100
48	MP1A	Z	4.483	4.483	0	%100
49	M44	X	-2.112	-2.112	0	%100
50	M44	Z	1.219	1.219	0	%100
51	M45	X	-2.112	-2.112	0	%100
52	M45	Z	1.219	1.219	0	%100
53	M46	X	-2.112	-2.112	0	%100
54	M46	Z	1.219	1.219	0	%100
55	M47	X	-2.112	-2.112	0	%100
56	M47	Z	1.219	1.219	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
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	M13	X	-2.438	-2.438	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-2.438	-2.438	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-2.438	-2.438	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-2.438	-2.438	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.716	-2.716	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.716	-2.716	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.716	-2.716	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-2.716	-2.716	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
26	M23	Z	0	0	%100
27	M24	X	0	0	%100
28	M24	Z	0	0	%100
29	M25	X	-2.273	-2.273	0
30	M25	Z	0	0	%100
31	M26	X	-2.273	-2.273	0
32	M26	Z	0	0	%100
33	M27	X	-2.273	-2.273	0
34	M27	Z	0	0	%100
35	M28	X	-2.273	-2.273	0
36	M28	Z	0	0	%100
37	M31	X	-9.266	-9.266	0
38	M31	Z	0	0	%100
39	M32	X	-9.266	-9.266	0
40	M32	Z	0	0	%100
41	MP4A	X	-9.266	-9.266	0
42	MP4A	Z	0	0	%100
43	MP3A	X	-9.266	-9.266	0
44	MP3A	Z	0	0	%100
45	MP2A	X	-9.266	-9.266	0
46	MP2A	Z	0	0	%100
47	MP1A	X	-9.266	-9.266	0
48	MP1A	Z	0	0	%100
49	M44	X	-2.438	-2.438	0
50	M44	Z	0	0	%100
51	M45	X	-2.438	-2.438	0
52	M45	Z	0	0	%100
53	M46	X	-2.438	-2.438	0
54	M46	Z	0	0	%100
55	M47	X	-2.438	-2.438	0
56	M47	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-2.428	-2.428	0
2	M1	Z	-1.402	-1.402	0
3	M2	X	-2.428	-2.428	0
4	M2	Z	-1.402	-1.402	0
5	M13	X	-1.584	-1.584	0
6	M13	Z	-.914	-.914	0
7	M14	X	-1.584	-1.584	0
8	M14	Z	-.914	-.914	0
9	M15	X	-1.584	-1.584	0
10	M15	Z	-.914	-.914	0
11	M16	X	-1.584	-1.584	0
12	M16	Z	-.914	-.914	0
13	M17	X	-5.324	-5.324	0
14	M17	Z	-3.074	-3.074	0
15	M18	X	-5.324	-5.324	0
16	M18	Z	-3.074	-3.074	0
17	M19	X	-.122	-.122	0
18	M19	Z	-.07	-.07	0
19	M20	X	-.122	-.122	0
20	M20	Z	-.07	-.07	0
21	M21	X	-.528	-.528	0
22	M21	Z	-.305	-.305	0



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
23	M22	X	-528	-528	0	%100
24	M22	Z	-305	-305	0	%100
25	M23	X	-528	-528	0	%100
26	M23	Z	-305	-305	0	%100
27	M24	X	-528	-528	0	%100
28	M24	Z	-305	-305	0	%100
29	M25	X	-2.407	-2.407	0	%100
30	M25	Z	-1.39	-1.39	0	%100
31	M26	X	-2.407	-2.407	0	%100
32	M26	Z	-1.39	-1.39	0	%100
33	M27	X	-1.64	-1.64	0	%100
34	M27	Z	-0.947	-0.947	0	%100
35	M28	X	-1.64	-1.64	0	%100
36	M28	Z	-0.947	-0.947	0	%100
37	M31	X	-6.018	-6.018	0	%100
38	M31	Z	-3.475	-3.475	0	%100
39	M32	X	-6.018	-6.018	0	%100
40	M32	Z	-3.475	-3.475	0	%100
41	MP4A	X	-7.764	-7.764	0	%100
42	MP4A	Z	-4.483	-4.483	0	%100
43	MP3A	X	-7.764	-7.764	0	%100
44	MP3A	Z	-4.483	-4.483	0	%100
45	MP2A	X	-7.764	-7.764	0	%100
46	MP2A	Z	-4.483	-4.483	0	%100
47	MP1A	X	-7.764	-7.764	0	%100
48	MP1A	Z	-4.483	-4.483	0	%100
49	M44	X	-2.112	-2.112	0	%100
50	M44	Z	-1.219	-1.219	0	%100
51	M45	X	-2.112	-2.112	0	%100
52	M45	Z	-1.219	-1.219	0	%100
53	M46	X	-2.112	-2.112	0	%100
54	M46	Z	-1.219	-1.219	0	%100
55	M47	X	-2.112	-2.112	0	%100
56	M47	Z	-1.219	-1.219	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-4.206	-4.206	0	%100
2	M1	Z	-7.285	-7.285	0	%100
3	M2	X	-4.206	-4.206	0	%100
4	M2	Z	-7.285	-7.285	0	%100
5	M13	X	-305	-305	0	%100
6	M13	Z	-528	-528	0	%100
7	M14	X	-305	-305	0	%100
8	M14	Z	-528	-528	0	%100
9	M15	X	-305	-305	0	%100
10	M15	Z	-528	-528	0	%100
11	M16	X	-305	-305	0	%100
12	M16	Z	-528	-528	0	%100
13	M17	X	-3.502	-3.502	0	%100
14	M17	Z	-6.065	-6.065	0	%100
15	M18	X	-3.502	-3.502	0	%100
16	M18	Z	-6.065	-6.065	0	%100
17	M19	X	-499	-499	0	%100
18	M19	Z	-863	-863	0	%100
19	M20	X	-499	-499	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
20	M20	Z	- .863	- .863	0	%100
21	M21	X	- .914	- .914	0	%100
22	M21	Z	-1.584	-1.584	0	%100
23	M22	X	- .914	- .914	0	%100
24	M22	Z	-1.584	-1.584	0	%100
25	M23	X	- .914	- .914	0	%100
26	M23	Z	-1.584	-1.584	0	%100
27	M24	X	- .914	- .914	0	%100
28	M24	Z	-1.584	-1.584	0	%100
29	M25	X	-1.453	-1.453	0	%100
30	M25	Z	-2.516	-2.516	0	%100
31	M26	X	-1.453	-1.453	0	%100
32	M26	Z	-2.516	-2.516	0	%100
33	M27	X	-1.01	-1.01	0	%100
34	M27	Z	-1.749	-1.749	0	%100
35	M28	X	-1.01	-1.01	0	%100
36	M28	Z	-1.749	-1.749	0	%100
37	M31	X	-1.158	-1.158	0	%100
38	M31	Z	-2.006	-2.006	0	%100
39	M32	X	-1.158	-1.158	0	%100
40	M32	Z	-2.006	-2.006	0	%100
41	MP4A	X	-4.182	-4.182	0	%100
42	MP4A	Z	-7.244	-7.244	0	%100
43	MP3A	X	-4.182	-4.182	0	%100
44	MP3A	Z	-7.244	-7.244	0	%100
45	MP2A	X	-4.182	-4.182	0	%100
46	MP2A	Z	-7.244	-7.244	0	%100
47	MP1A	X	-4.182	-4.182	0	%100
48	MP1A	Z	-7.244	-7.244	0	%100
49	M44	X	-1.219	-1.219	0	%100
50	M44	Z	-2.112	-2.112	0	%100
51	M45	X	-1.219	-1.219	0	%100
52	M45	Z	-2.112	-2.112	0	%100
53	M46	X	-1.219	-1.219	0	%100
54	M46	Z	-2.112	-2.112	0	%100
55	M47	X	-1.219	-1.219	0	%100
56	M47	Z	-2.112	-2.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	0	%100
2	M1	Z	-4.388	-4.388	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-4.388	-4.388	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-1.827	-1.827	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.827	-1.827	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
17	M19	X	0	0	0	%100
18	M19	Z	-1.827	-1.827	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-1.827	-1.827	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.823	-1.823	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.823	-1.823	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.823	-1.823	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.823	-1.823	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.114	-2.114	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.114	-2.114	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.114	-2.114	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.114	-2.114	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	0	0	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-3.822	-3.822	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-3.822	-3.822	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	-3.822	-3.822	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	-3.822	-3.822	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-2.232	-2.232	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	-2.232	-2.232	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	-2.232	-2.232	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-2.232	-2.232	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	1.646	1.646	0	%100
2	M1	Z	-2.85	-2.85	0	%100
3	M2	X	1.646	1.646	0	%100
4	M2	Z	-2.85	-2.85	0	%100
5	M13	X	.228	.228	0	%100
6	M13	Z	-.395	-.395	0	%100
7	M14	X	.228	.228	0	%100
8	M14	Z	-.395	-.395	0	%100
9	M15	X	.228	.228	0	%100
10	M15	Z	-.395	-.395	0	%100
11	M16	X	.228	.228	0	%100
12	M16	Z	-.395	-.395	0	%100
13	M17	X	.206	.206	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
14	M17	Z	-.356	-.356	0	%100
15	M18	X	.206	.206	0	%100
16	M18	Z	-.356	-.356	0	%100
17	M19	X	1.444	1.444	0	%100
18	M19	Z	-2.502	-2.502	0	%100
19	M20	X	1.444	1.444	0	%100
20	M20	Z	-2.502	-2.502	0	%100
21	M21	X	.684	.684	0	%100
22	M21	Z	-1.184	-1.184	0	%100
23	M22	X	.684	.684	0	%100
24	M22	Z	-1.184	-1.184	0	%100
25	M23	X	.684	.684	0	%100
26	M23	Z	-1.184	-1.184	0	%100
27	M24	X	.684	.684	0	%100
28	M24	Z	-1.184	-1.184	0	%100
29	M25	X	.845	.845	0	%100
30	M25	Z	-1.464	-1.464	0	%100
31	M26	X	.845	.845	0	%100
32	M26	Z	-1.464	-1.464	0	%100
33	M27	X	1.216	1.216	0	%100
34	M27	Z	-2.106	-2.106	0	%100
35	M28	X	1.216	1.216	0	%100
36	M28	Z	-2.106	-2.106	0	%100
37	M31	X	.505	.505	0	%100
38	M31	Z	-.874	-.874	0	%100
39	M32	X	.505	.505	0	%100
40	M32	Z	-.874	-.874	0	%100
41	MP4A	X	1.938	1.938	0	%100
42	MP4A	Z	-3.357	-3.357	0	%100
43	MP3A	X	1.938	1.938	0	%100
44	MP3A	Z	-3.357	-3.357	0	%100
45	MP2A	X	1.938	1.938	0	%100
46	MP2A	Z	-3.357	-3.357	0	%100
47	MP1A	X	1.938	1.938	0	%100
48	MP1A	Z	-3.357	-3.357	0	%100
49	M44	X	1.116	1.116	0	%100
50	M44	Z	-1.933	-1.933	0	%100
51	M45	X	1.116	1.116	0	%100
52	M45	Z	-1.933	-1.933	0	%100
53	M46	X	1.116	1.116	0	%100
54	M46	Z	-1.933	-1.933	0	%100
55	M47	X	1.116	1.116	0	%100
56	M47	Z	-1.933	-1.933	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	.95	.95	0	%100
2	M1	Z	-.549	-.549	0	%100
3	M2	X	.95	.95	0	%100
4	M2	Z	-.549	-.549	0	%100
5	M13	X	1.184	1.184	0	%100
6	M13	Z	-.684	-.684	0	%100
7	M14	X	1.184	1.184	0	%100
8	M14	Z	-.684	-.684	0	%100
9	M15	X	1.184	1.184	0	%100
10	M15	Z	-.684	-.684	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
11	M16	X	1.184	1.184	0 %100
12	M16	Z	-684	-684	0 %100
13	M17	X	.05	.05	0 %100
14	M17	Z	-.029	-.029	0 %100
15	M18	X	.05	.05	0 %100
16	M18	Z	-.029	-.029	0 %100
17	M19	X	2.196	2.196	0 %100
18	M19	Z	-1.268	-1.268	0 %100
19	M20	X	2.196	2.196	0 %100
20	M20	Z	-1.268	-1.268	0 %100
21	M21	X	.395	.395	0 %100
22	M21	Z	-.228	-.228	0 %100
23	M22	X	.395	.395	0 %100
24	M22	Z	-.228	-.228	0 %100
25	M23	X	.395	.395	0 %100
26	M23	Z	-.228	-.228	0 %100
27	M24	X	.395	.395	0 %100
28	M24	Z	-.228	-.228	0 %100
29	M25	X	1.372	1.372	0 %100
30	M25	Z	-.792	-.792	0 %100
31	M26	X	1.372	1.372	0 %100
32	M26	Z	-.792	-.792	0 %100
33	M27	X	2.014	2.014	0 %100
34	M27	Z	-1.163	-1.163	0 %100
35	M28	X	2.014	2.014	0 %100
36	M28	Z	-1.163	-1.163	0 %100
37	M31	X	2.623	2.623	0 %100
38	M31	Z	-1.514	-1.514	0 %100
39	M32	X	2.623	2.623	0 %100
40	M32	Z	-1.514	-1.514	0 %100
41	MP4A	X	3.45	3.45	0 %100
42	MP4A	Z	-1.992	-1.992	0 %100
43	MP3A	X	3.45	3.45	0 %100
44	MP3A	Z	-1.992	-1.992	0 %100
45	MP2A	X	3.45	3.45	0 %100
46	MP2A	Z	-1.992	-1.992	0 %100
47	MP1A	X	3.45	3.45	0 %100
48	MP1A	Z	-1.992	-1.992	0 %100
49	M44	X	1.933	1.933	0 %100
50	M44	Z	-1.116	-1.116	0 %100
51	M45	X	1.933	1.933	0 %100
52	M45	Z	-1.116	-1.116	0 %100
53	M46	X	1.933	1.933	0 %100
54	M46	Z	-1.116	-1.116	0 %100
55	M47	X	1.933	1.933	0 %100
56	M47	Z	-1.116	-1.116	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
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	M13	X	1.823	1.823	0 %100
6	M13	Z	0	0	0 %100
7	M14	X	1.823	1.823	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
8	M14	Z	0	0	0	%100
9	M15	X	1.823	1.823	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.823	1.823	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	1.12	1.12	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	1.12	1.12	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	1.12	1.12	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	1.12	1.12	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.902	1.902	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.902	1.902	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.902	1.902	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.902	1.902	0	%100
36	M28	Z	0	0	0	%100
37	M31	X	4.038	4.038	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	4.038	4.038	0	%100
40	M32	Z	0	0	0	%100
41	MP4A	X	4.038	4.038	0	%100
42	MP4A	Z	0	0	0	%100
43	MP3A	X	4.038	4.038	0	%100
44	MP3A	Z	0	0	0	%100
45	MP2A	X	4.038	4.038	0	%100
46	MP2A	Z	0	0	0	%100
47	MP1A	X	4.038	4.038	0	%100
48	MP1A	Z	0	0	0	%100
49	M44	X	2.232	2.232	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	2.232	2.232	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	2.232	2.232	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	2.232	2.232	0	%100
56	M47	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	.95	.95	0	%100
2	M1	Z	.549	.549	0	%100
3	M2	X	.95	.95	0	%100
4	M2	Z	.549	.549	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
5	M13	X	1.184	1.184	0 %100
6	M13	Z	.684	.684	0 %100
7	M14	X	1.184	1.184	0 %100
8	M14	Z	.684	.684	0 %100
9	M15	X	1.184	1.184	0 %100
10	M15	Z	.684	.684	0 %100
11	M16	X	1.184	1.184	0 %100
12	M16	Z	.684	.684	0 %100
13	M17	X	2.196	2.196	0 %100
14	M17	Z	1.268	1.268	0 %100
15	M18	X	2.196	2.196	0 %100
16	M18	Z	1.268	1.268	0 %100
17	M19	X	.05	.05	0 %100
18	M19	Z	.029	.029	0 %100
19	M20	X	.05	.05	0 %100
20	M20	Z	.029	.029	0 %100
21	M21	X	.395	.395	0 %100
22	M21	Z	.228	.228	0 %100
23	M22	X	.395	.395	0 %100
24	M22	Z	.228	.228	0 %100
25	M23	X	.395	.395	0 %100
26	M23	Z	.228	.228	0 %100
27	M24	X	.395	.395	0 %100
28	M24	Z	.228	.228	0 %100
29	M25	X	2.014	2.014	0 %100
30	M25	Z	1.163	1.163	0 %100
31	M26	X	2.014	2.014	0 %100
32	M26	Z	1.163	1.163	0 %100
33	M27	X	1.372	1.372	0 %100
34	M27	Z	.792	.792	0 %100
35	M28	X	1.372	1.372	0 %100
36	M28	Z	.792	.792	0 %100
37	M31	X	2.623	2.623	0 %100
38	M31	Z	1.514	1.514	0 %100
39	M32	X	2.623	2.623	0 %100
40	M32	Z	1.514	1.514	0 %100
41	MP4A	X	3.45	3.45	0 %100
42	MP4A	Z	1.992	1.992	0 %100
43	MP3A	X	3.45	3.45	0 %100
44	MP3A	Z	1.992	1.992	0 %100
45	MP2A	X	3.45	3.45	0 %100
46	MP2A	Z	1.992	1.992	0 %100
47	MP1A	X	3.45	3.45	0 %100
48	MP1A	Z	1.992	1.992	0 %100
49	M44	X	1.933	1.933	0 %100
50	M44	Z	1.116	1.116	0 %100
51	M45	X	1.933	1.933	0 %100
52	M45	Z	1.116	1.116	0 %100
53	M46	X	1.933	1.933	0 %100
54	M46	Z	1.116	1.116	0 %100
55	M47	X	1.933	1.933	0 %100
56	M47	Z	1.116	1.116	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	1.646	1.646	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Locationft...	End Locationft...
2	M1	Z	2.85	2.85	0	%100
3	M2	X	1.646	1.646	0	%100
4	M2	Z	2.85	2.85	0	%100
5	M13	X	.228	.228	0	%100
6	M13	Z	.395	.395	0	%100
7	M14	X	.228	.228	0	%100
8	M14	Z	.395	.395	0	%100
9	M15	X	.228	.228	0	%100
10	M15	Z	.395	.395	0	%100
11	M16	X	.228	.228	0	%100
12	M16	Z	.395	.395	0	%100
13	M17	X	1.444	1.444	0	%100
14	M17	Z	2.502	2.502	0	%100
15	M18	X	1.444	1.444	0	%100
16	M18	Z	2.502	2.502	0	%100
17	M19	X	.206	.206	0	%100
18	M19	Z	.356	.356	0	%100
19	M20	X	.206	.206	0	%100
20	M20	Z	.356	.356	0	%100
21	M21	X	.684	.684	0	%100
22	M21	Z	1.184	1.184	0	%100
23	M22	X	.684	.684	0	%100
24	M22	Z	1.184	1.184	0	%100
25	M23	X	.684	.684	0	%100
26	M23	Z	1.184	1.184	0	%100
27	M24	X	.684	.684	0	%100
28	M24	Z	1.184	1.184	0	%100
29	M25	X	1.216	1.216	0	%100
30	M25	Z	2.106	2.106	0	%100
31	M26	X	1.216	1.216	0	%100
32	M26	Z	2.106	2.106	0	%100
33	M27	X	.845	.845	0	%100
34	M27	Z	1.464	1.464	0	%100
35	M28	X	.845	.845	0	%100
36	M28	Z	1.464	1.464	0	%100
37	M31	X	.505	.505	0	%100
38	M31	Z	.874	.874	0	%100
39	M32	X	.505	.505	0	%100
40	M32	Z	.874	.874	0	%100
41	MP4A	X	1.938	1.938	0	%100
42	MP4A	Z	3.357	3.357	0	%100
43	MP3A	X	1.938	1.938	0	%100
44	MP3A	Z	3.357	3.357	0	%100
45	MP2A	X	1.938	1.938	0	%100
46	MP2A	Z	3.357	3.357	0	%100
47	MP1A	X	1.938	1.938	0	%100
48	MP1A	Z	3.357	3.357	0	%100
49	M44	X	1.116	1.116	0	%100
50	M44	Z	1.933	1.933	0	%100
51	M45	X	1.116	1.116	0	%100
52	M45	Z	1.933	1.933	0	%100
53	M46	X	1.116	1.116	0	%100
54	M46	Z	1.933	1.933	0	%100
55	M47	X	1.116	1.116	0	%100
56	M47	Z	1.933	1.933	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	%100
2	M1	Z	4.388	4.388	%100
3	M2	X	0	0	%100
4	M2	Z	4.388	4.388	%100
5	M13	X	0	0	%100
6	M13	Z	0	0	%100
7	M14	X	0	0	%100
8	M14	Z	0	0	%100
9	M15	X	0	0	%100
10	M15	Z	0	0	%100
11	M16	X	0	0	%100
12	M16	Z	0	0	%100
13	M17	X	0	0	%100
14	M17	Z	1.827	1.827	%100
15	M18	X	0	0	%100
16	M18	Z	1.827	1.827	%100
17	M19	X	0	0	%100
18	M19	Z	1.827	1.827	%100
19	M20	X	0	0	%100
20	M20	Z	1.827	1.827	%100
21	M21	X	0	0	%100
22	M21	Z	1.823	1.823	%100
23	M22	X	0	0	%100
24	M22	Z	1.823	1.823	%100
25	M23	X	0	0	%100
26	M23	Z	1.823	1.823	%100
27	M24	X	0	0	%100
28	M24	Z	1.823	1.823	%100
29	M25	X	0	0	%100
30	M25	Z	2.114	2.114	%100
31	M26	X	0	0	%100
32	M26	Z	2.114	2.114	%100
33	M27	X	0	0	%100
34	M27	Z	2.114	2.114	%100
35	M28	X	0	0	%100
36	M28	Z	2.114	2.114	%100
37	M31	X	0	0	%100
38	M31	Z	0	0	%100
39	M32	X	0	0	%100
40	M32	Z	0	0	%100
41	MP4A	X	0	0	%100
42	MP4A	Z	3.822	3.822	%100
43	MP3A	X	0	0	%100
44	MP3A	Z	3.822	3.822	%100
45	MP2A	X	0	0	%100
46	MP2A	Z	3.822	3.822	%100
47	MP1A	X	0	0	%100
48	MP1A	Z	3.822	3.822	%100
49	M44	X	0	0	%100
50	M44	Z	2.232	2.232	%100
51	M45	X	0	0	%100
52	M45	Z	2.232	2.232	%100
53	M46	X	0	0	%100
54	M46	Z	2.232	2.232	%100
55	M47	X	0	0	%100
56	M47	Z	2.232	2.232	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-1.646	-1.646	0 %100
2	M1	Z	2.85	2.85	0 %100
3	M2	X	-1.646	-1.646	0 %100
4	M2	Z	2.85	2.85	0 %100
5	M13	X	-.228	-.228	0 %100
6	M13	Z	.395	.395	0 %100
7	M14	X	-.228	-.228	0 %100
8	M14	Z	.395	.395	0 %100
9	M15	X	-.228	-.228	0 %100
10	M15	Z	.395	.395	0 %100
11	M16	X	-.228	-.228	0 %100
12	M16	Z	.395	.395	0 %100
13	M17	X	-.206	-.206	0 %100
14	M17	Z	.356	.356	0 %100
15	M18	X	-.206	-.206	0 %100
16	M18	Z	.356	.356	0 %100
17	M19	X	-1.444	-1.444	0 %100
18	M19	Z	2.502	2.502	0 %100
19	M20	X	-1.444	-1.444	0 %100
20	M20	Z	2.502	2.502	0 %100
21	M21	X	-.684	-.684	0 %100
22	M21	Z	1.184	1.184	0 %100
23	M22	X	-.684	-.684	0 %100
24	M22	Z	1.184	1.184	0 %100
25	M23	X	-.684	-.684	0 %100
26	M23	Z	1.184	1.184	0 %100
27	M24	X	-.684	-.684	0 %100
28	M24	Z	1.184	1.184	0 %100
29	M25	X	-.845	-.845	0 %100
30	M25	Z	1.464	1.464	0 %100
31	M26	X	-.845	-.845	0 %100
32	M26	Z	1.464	1.464	0 %100
33	M27	X	-1.216	-1.216	0 %100
34	M27	Z	2.106	2.106	0 %100
35	M28	X	-1.216	-1.216	0 %100
36	M28	Z	2.106	2.106	0 %100
37	M31	X	-.505	-.505	0 %100
38	M31	Z	.874	.874	0 %100
39	M32	X	-.505	-.505	0 %100
40	M32	Z	.874	.874	0 %100
41	MP4A	X	-1.938	-1.938	0 %100
42	MP4A	Z	3.357	3.357	0 %100
43	MP3A	X	-1.938	-1.938	0 %100
44	MP3A	Z	3.357	3.357	0 %100
45	MP2A	X	-1.938	-1.938	0 %100
46	MP2A	Z	3.357	3.357	0 %100
47	MP1A	X	-1.938	-1.938	0 %100
48	MP1A	Z	3.357	3.357	0 %100
49	M44	X	-1.116	-1.116	0 %100
50	M44	Z	1.933	1.933	0 %100
51	M45	X	-1.116	-1.116	0 %100
52	M45	Z	1.933	1.933	0 %100
53	M46	X	-1.116	-1.116	0 %100
54	M46	Z	1.933	1.933	0 %100
55	M47	X	-1.116	-1.116	0 %100
56	M47	Z	1.933	1.933	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	- .95	- .95	0 %100
2	M1	Z	.549	.549	0 %100
3	M2	X	- .95	- .95	0 %100
4	M2	Z	.549	.549	0 %100
5	M13	X	-1.184	-1.184	0 %100
6	M13	Z	.684	.684	0 %100
7	M14	X	-1.184	-1.184	0 %100
8	M14	Z	.684	.684	0 %100
9	M15	X	-1.184	-1.184	0 %100
10	M15	Z	.684	.684	0 %100
11	M16	X	-1.184	-1.184	0 %100
12	M16	Z	.684	.684	0 %100
13	M17	X	- .05	- .05	0 %100
14	M17	Z	.029	.029	0 %100
15	M18	X	- .05	- .05	0 %100
16	M18	Z	.029	.029	0 %100
17	M19	X	-2.196	-2.196	0 %100
18	M19	Z	1.268	1.268	0 %100
19	M20	X	-2.196	-2.196	0 %100
20	M20	Z	1.268	1.268	0 %100
21	M21	X	- .395	- .395	0 %100
22	M21	Z	.228	.228	0 %100
23	M22	X	- .395	- .395	0 %100
24	M22	Z	.228	.228	0 %100
25	M23	X	- .395	- .395	0 %100
26	M23	Z	.228	.228	0 %100
27	M24	X	- .395	- .395	0 %100
28	M24	Z	.228	.228	0 %100
29	M25	X	-1.372	-1.372	0 %100
30	M25	Z	.792	.792	0 %100
31	M26	X	-1.372	-1.372	0 %100
32	M26	Z	.792	.792	0 %100
33	M27	X	-2.014	-2.014	0 %100
34	M27	Z	1.163	1.163	0 %100
35	M28	X	-2.014	-2.014	0 %100
36	M28	Z	1.163	1.163	0 %100
37	M31	X	-2.623	-2.623	0 %100
38	M31	Z	1.514	1.514	0 %100
39	M32	X	-2.623	-2.623	0 %100
40	M32	Z	1.514	1.514	0 %100
41	MP4A	X	-3.45	-3.45	0 %100
42	MP4A	Z	1.992	1.992	0 %100
43	MP3A	X	-3.45	-3.45	0 %100
44	MP3A	Z	1.992	1.992	0 %100
45	MP2A	X	-3.45	-3.45	0 %100
46	MP2A	Z	1.992	1.992	0 %100
47	MP1A	X	-3.45	-3.45	0 %100
48	MP1A	Z	1.992	1.992	0 %100
49	M44	X	-1.933	-1.933	0 %100
50	M44	Z	1.116	1.116	0 %100
51	M45	X	-1.933	-1.933	0 %100
52	M45	Z	1.116	1.116	0 %100
53	M46	X	-1.933	-1.933	0 %100
54	M46	Z	1.116	1.116	0 %100
55	M47	X	-1.933	-1.933	0 %100
56	M47	Z	1.116	1.116	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	%100
2	M1	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	M13	X	-1.823	-1.823	0
6	M13	Z	0	0	%100
7	M14	X	-1.823	-1.823	0
8	M14	Z	0	0	%100
9	M15	X	-1.823	-1.823	0
10	M15	Z	0	0	%100
11	M16	X	-1.823	-1.823	0
12	M16	Z	0	0	%100
13	M17	X	-1.12	-1.12	0
14	M17	Z	0	0	%100
15	M18	X	-1.12	-1.12	0
16	M18	Z	0	0	%100
17	M19	X	-1.12	-1.12	0
18	M19	Z	0	0	%100
19	M20	X	-1.12	-1.12	0
20	M20	Z	0	0	%100
21	M21	X	0	0	%100
22	M21	Z	0	0	%100
23	M22	X	0	0	%100
24	M22	Z	0	0	%100
25	M23	X	0	0	%100
26	M23	Z	0	0	%100
27	M24	X	0	0	%100
28	M24	Z	0	0	%100
29	M25	X	-1.902	-1.902	0
30	M25	Z	0	0	%100
31	M26	X	-1.902	-1.902	0
32	M26	Z	0	0	%100
33	M27	X	-1.902	-1.902	0
34	M27	Z	0	0	%100
35	M28	X	-1.902	-1.902	0
36	M28	Z	0	0	%100
37	M31	X	-4.038	-4.038	0
38	M31	Z	0	0	%100
39	M32	X	-4.038	-4.038	0
40	M32	Z	0	0	%100
41	MP4A	X	-4.038	-4.038	0
42	MP4A	Z	0	0	%100
43	MP3A	X	-4.038	-4.038	0
44	MP3A	Z	0	0	%100
45	MP2A	X	-4.038	-4.038	0
46	MP2A	Z	0	0	%100
47	MP1A	X	-4.038	-4.038	0
48	MP1A	Z	0	0	%100
49	M44	X	-2.232	-2.232	0
50	M44	Z	0	0	%100
51	M45	X	-2.232	-2.232	0
52	M45	Z	0	0	%100
53	M46	X	-2.232	-2.232	0
54	M46	Z	0	0	%100
55	M47	X	-2.232	-2.232	0
56	M47	Z	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-95	-95	0 %100
2	M1	Z	-549	-549	0 %100
3	M2	X	-95	-95	0 %100
4	M2	Z	-549	-549	0 %100
5	M13	X	-1.184	-1.184	0 %100
6	M13	Z	-684	-684	0 %100
7	M14	X	-1.184	-1.184	0 %100
8	M14	Z	-684	-684	0 %100
9	M15	X	-1.184	-1.184	0 %100
10	M15	Z	-684	-684	0 %100
11	M16	X	-1.184	-1.184	0 %100
12	M16	Z	-684	-684	0 %100
13	M17	X	-2.196	-2.196	0 %100
14	M17	Z	-1.268	-1.268	0 %100
15	M18	X	-2.196	-2.196	0 %100
16	M18	Z	-1.268	-1.268	0 %100
17	M19	X	-.05	-.05	0 %100
18	M19	Z	-.029	-.029	0 %100
19	M20	X	-.05	-.05	0 %100
20	M20	Z	-.029	-.029	0 %100
21	M21	X	-.395	-.395	0 %100
22	M21	Z	-.228	-.228	0 %100
23	M22	X	-.395	-.395	0 %100
24	M22	Z	-.228	-.228	0 %100
25	M23	X	-.395	-.395	0 %100
26	M23	Z	-.228	-.228	0 %100
27	M24	X	-.395	-.395	0 %100
28	M24	Z	-.228	-.228	0 %100
29	M25	X	-2.014	-2.014	0 %100
30	M25	Z	-1.163	-1.163	0 %100
31	M26	X	-2.014	-2.014	0 %100
32	M26	Z	-1.163	-1.163	0 %100
33	M27	X	-1.372	-1.372	0 %100
34	M27	Z	-.792	-.792	0 %100
35	M28	X	-1.372	-1.372	0 %100
36	M28	Z	-.792	-.792	0 %100
37	M31	X	-2.623	-2.623	0 %100
38	M31	Z	-1.514	-1.514	0 %100
39	M32	X	-2.623	-2.623	0 %100
40	M32	Z	-1.514	-1.514	0 %100
41	MP4A	X	-3.45	-3.45	0 %100
42	MP4A	Z	-1.992	-1.992	0 %100
43	MP3A	X	-3.45	-3.45	0 %100
44	MP3A	Z	-1.992	-1.992	0 %100
45	MP2A	X	-3.45	-3.45	0 %100
46	MP2A	Z	-1.992	-1.992	0 %100
47	MP1A	X	-3.45	-3.45	0 %100
48	MP1A	Z	-1.992	-1.992	0 %100
49	M44	X	-1.933	-1.933	0 %100
50	M44	Z	-1.116	-1.116	0 %100
51	M45	X	-1.933	-1.933	0 %100
52	M45	Z	-1.116	-1.116	0 %100
53	M46	X	-1.933	-1.933	0 %100
54	M46	Z	-1.116	-1.116	0 %100
55	M47	X	-1.933	-1.933	0 %100
56	M47	Z	-1.116	-1.116	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-1.646	-1.646	0 %100
2	M1	Z	-2.85	-2.85	0 %100
3	M2	X	-1.646	-1.646	0 %100
4	M2	Z	-2.85	-2.85	0 %100
5	M13	X	-.228	-.228	0 %100
6	M13	Z	-.395	-.395	0 %100
7	M14	X	-.228	-.228	0 %100
8	M14	Z	-.395	-.395	0 %100
9	M15	X	-.228	-.228	0 %100
10	M15	Z	-.395	-.395	0 %100
11	M16	X	-.228	-.228	0 %100
12	M16	Z	-.395	-.395	0 %100
13	M17	X	-1.444	-1.444	0 %100
14	M17	Z	-2.502	-2.502	0 %100
15	M18	X	-1.444	-1.444	0 %100
16	M18	Z	-2.502	-2.502	0 %100
17	M19	X	-.206	-.206	0 %100
18	M19	Z	-.356	-.356	0 %100
19	M20	X	-.206	-.206	0 %100
20	M20	Z	-.356	-.356	0 %100
21	M21	X	-.684	-.684	0 %100
22	M21	Z	-1.184	-1.184	0 %100
23	M22	X	-.684	-.684	0 %100
24	M22	Z	-1.184	-1.184	0 %100
25	M23	X	-.684	-.684	0 %100
26	M23	Z	-1.184	-1.184	0 %100
27	M24	X	-.684	-.684	0 %100
28	M24	Z	-1.184	-1.184	0 %100
29	M25	X	-1.216	-1.216	0 %100
30	M25	Z	-2.106	-2.106	0 %100
31	M26	X	-1.216	-1.216	0 %100
32	M26	Z	-2.106	-2.106	0 %100
33	M27	X	-.845	-.845	0 %100
34	M27	Z	-1.464	-1.464	0 %100
35	M28	X	-.845	-.845	0 %100
36	M28	Z	-1.464	-1.464	0 %100
37	M31	X	-.505	-.505	0 %100
38	M31	Z	-.874	-.874	0 %100
39	M32	X	-.505	-.505	0 %100
40	M32	Z	-.874	-.874	0 %100
41	MP4A	X	-1.938	-1.938	0 %100
42	MP4A	Z	-3.357	-3.357	0 %100
43	MP3A	X	-1.938	-1.938	0 %100
44	MP3A	Z	-3.357	-3.357	0 %100
45	MP2A	X	-1.938	-1.938	0 %100
46	MP2A	Z	-3.357	-3.357	0 %100
47	MP1A	X	-1.938	-1.938	0 %100
48	MP1A	Z	-3.357	-3.357	0 %100
49	M44	X	-1.116	-1.116	0 %100
50	M44	Z	-1.933	-1.933	0 %100
51	M45	X	-1.116	-1.116	0 %100
52	M45	Z	-1.933	-1.933	0 %100
53	M46	X	-1.116	-1.116	0 %100
54	M46	Z	-1.933	-1.933	0 %100
55	M47	X	-1.116	-1.116	0 %100
56	M47	Z	-1.933	-1.933	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	M1	X	0	0	%100	
2	M1	Z	-.725	-.725	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.725	-.725	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-.286	-.286	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.286	-.286	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.286	-.286	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-.286	-.286	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.158	-.158	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-.158	-.158	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.158	-.158	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.158	-.158	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.163	-.163	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.163	-.163	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.163	-.163	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.163	-.163	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	0	0	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-.521	-.521	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-.521	-.521	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	-.521	-.521	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	-.521	-.521	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-.158	-.158	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	-.158	-.158	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	-.158	-.158	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-.158	-.158	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	.272	.272	0 %100
2	M1	Z	-.471	-.471	0 %100
3	M2	X	.272	.272	0 %100
4	M2	Z	-.471	-.471	0 %100
5	M13	X	.02	.02	0 %100
6	M13	Z	-.034	-.034	0 %100
7	M14	X	.02	.02	0 %100
8	M14	Z	-.034	-.034	0 %100
9	M15	X	.02	.02	0 %100
10	M15	Z	-.034	-.034	0 %100
11	M16	X	.02	.02	0 %100
12	M16	Z	-.034	-.034	0 %100
13	M17	X	.032	.032	0 %100
14	M17	Z	-.056	-.056	0 %100
15	M18	X	.032	.032	0 %100
16	M18	Z	-.056	-.056	0 %100
17	M19	X	.226	.226	0 %100
18	M19	Z	-.392	-.392	0 %100
19	M20	X	.226	.226	0 %100
20	M20	Z	-.392	-.392	0 %100
21	M21	X	.059	.059	0 %100
22	M21	Z	-.102	-.102	0 %100
23	M22	X	.059	.059	0 %100
24	M22	Z	-.102	-.102	0 %100
25	M23	X	.059	.059	0 %100
26	M23	Z	-.102	-.102	0 %100
27	M24	X	.059	.059	0 %100
28	M24	Z	-.102	-.102	0 %100
29	M25	X	.065	.065	0 %100
30	M25	Z	-.113	-.113	0 %100
31	M26	X	.065	.065	0 %100
32	M26	Z	-.113	-.113	0 %100
33	M27	X	.094	.094	0 %100
34	M27	Z	-.163	-.163	0 %100
35	M28	X	.094	.094	0 %100
36	M28	Z	-.163	-.163	0 %100
37	M31	X	.075	.075	0 %100
38	M31	Z	-.13	-.13	0 %100
39	M32	X	.075	.075	0 %100
40	M32	Z	-.13	-.13	0 %100
41	MP4A	X	.27	.27	0 %100
42	MP4A	Z	-.468	-.468	0 %100
43	MP3A	X	.27	.27	0 %100
44	MP3A	Z	-.468	-.468	0 %100
45	MP2A	X	.27	.27	0 %100
46	MP2A	Z	-.468	-.468	0 %100
47	MP1A	X	.27	.27	0 %100
48	MP1A	Z	-.468	-.468	0 %100
49	M44	X	.079	.079	0 %100
50	M44	Z	-.136	-.136	0 %100
51	M45	X	.079	.079	0 %100
52	M45	Z	-.136	-.136	0 %100
53	M46	X	.079	.079	0 %100
54	M46	Z	-.136	-.136	0 %100
55	M47	X	.079	.079	0 %100
56	M47	Z	-.136	-.136	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	.157	.157	0 %100
2	M1	Z	-.091	-.091	0 %100
3	M2	X	.157	.157	0 %100
4	M2	Z	-.091	-.091	0 %100
5	M13	X	.102	.102	0 %100
6	M13	Z	-.059	-.059	0 %100
7	M14	X	.102	.102	0 %100
8	M14	Z	-.059	-.059	0 %100
9	M15	X	.102	.102	0 %100
10	M15	Z	-.059	-.059	0 %100
11	M16	X	.102	.102	0 %100
12	M16	Z	-.059	-.059	0 %100
13	M17	X	.008	.008	0 %100
14	M17	Z	-.005	-.005	0 %100
15	M18	X	.008	.008	0 %100
16	M18	Z	-.005	-.005	0 %100
17	M19	X	.344	.344	0 %100
18	M19	Z	-.199	-.199	0 %100
19	M20	X	.344	.344	0 %100
20	M20	Z	-.199	-.199	0 %100
21	M21	X	.034	.034	0 %100
22	M21	Z	-.02	-.02	0 %100
23	M22	X	.034	.034	0 %100
24	M22	Z	-.02	-.02	0 %100
25	M23	X	.034	.034	0 %100
26	M23	Z	-.02	-.02	0 %100
27	M24	X	.034	.034	0 %100
28	M24	Z	-.02	-.02	0 %100
29	M25	X	.106	.106	0 %100
30	M25	Z	-.061	-.061	0 %100
31	M26	X	.106	.106	0 %100
32	M26	Z	-.061	-.061	0 %100
33	M27	X	.156	.156	0 %100
34	M27	Z	-.09	-.09	0 %100
35	M28	X	.156	.156	0 %100
36	M28	Z	-.09	-.09	0 %100
37	M31	X	.389	.389	0 %100
38	M31	Z	-.225	-.225	0 %100
39	M32	X	.389	.389	0 %100
40	M32	Z	-.225	-.225	0 %100
41	MP4A	X	.502	.502	0 %100
42	MP4A	Z	-.29	-.29	0 %100
43	MP3A	X	.502	.502	0 %100
44	MP3A	Z	-.29	-.29	0 %100
45	MP2A	X	.502	.502	0 %100
46	MP2A	Z	-.29	-.29	0 %100
47	MP1A	X	.502	.502	0 %100
48	MP1A	Z	-.29	-.29	0 %100
49	M44	X	.136	.136	0 %100
50	M44	Z	-.079	-.079	0 %100
51	M45	X	.136	.136	0 %100
52	M45	Z	-.079	-.079	0 %100
53	M46	X	.136	.136	0 %100
54	M46	Z	-.079	-.079	0 %100
55	M47	X	.136	.136	0 %100
56	M47	Z	-.079	-.079	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	%100
2	M1	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	M13	X	.158	.158	0
6	M13	Z	0	0	%100
7	M14	X	.158	.158	0
8	M14	Z	0	0	%100
9	M15	X	.158	.158	0
10	M15	Z	0	0	%100
11	M16	X	.158	.158	0
12	M16	Z	0	0	%100
13	M17	X	.176	.176	0
14	M17	Z	0	0	%100
15	M18	X	.176	.176	0
16	M18	Z	0	0	%100
17	M19	X	.176	.176	0
18	M19	Z	0	0	%100
19	M20	X	.176	.176	0
20	M20	Z	0	0	%100
21	M21	X	0	0	%100
22	M21	Z	0	0	%100
23	M22	X	0	0	%100
24	M22	Z	0	0	%100
25	M23	X	0	0	%100
26	M23	Z	0	0	%100
27	M24	X	0	0	%100
28	M24	Z	0	0	%100
29	M25	X	.147	.147	0
30	M25	Z	0	0	%100
31	M26	X	.147	.147	0
32	M26	Z	0	0	%100
33	M27	X	.147	.147	0
34	M27	Z	0	0	%100
35	M28	X	.147	.147	0
36	M28	Z	0	0	%100
37	M31	X	.599	.599	0
38	M31	Z	0	0	%100
39	M32	X	.599	.599	0
40	M32	Z	0	0	%100
41	MP4A	X	.599	.599	0
42	MP4A	Z	0	0	%100
43	MP3A	X	.599	.599	0
44	MP3A	Z	0	0	%100
45	MP2A	X	.599	.599	0
46	MP2A	Z	0	0	%100
47	MP1A	X	.599	.599	0
48	MP1A	Z	0	0	%100
49	M44	X	.158	.158	0
50	M44	Z	0	0	%100
51	M45	X	.158	.158	0
52	M45	Z	0	0	%100
53	M46	X	.158	.158	0
54	M46	Z	0	0	%100
55	M47	X	.158	.158	0
56	M47	Z	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	.157	.157	0 %100
2	M1	Z	.091	.091	0 %100
3	M2	X	.157	.157	0 %100
4	M2	Z	.091	.091	0 %100
5	M13	X	.102	.102	0 %100
6	M13	Z	.059	.059	0 %100
7	M14	X	.102	.102	0 %100
8	M14	Z	.059	.059	0 %100
9	M15	X	.102	.102	0 %100
10	M15	Z	.059	.059	0 %100
11	M16	X	.102	.102	0 %100
12	M16	Z	.059	.059	0 %100
13	M17	X	.344	.344	0 %100
14	M17	Z	.199	.199	0 %100
15	M18	X	.344	.344	0 %100
16	M18	Z	.199	.199	0 %100
17	M19	X	.008	.008	0 %100
18	M19	Z	.005	.005	0 %100
19	M20	X	.008	.008	0 %100
20	M20	Z	.005	.005	0 %100
21	M21	X	.034	.034	0 %100
22	M21	Z	.02	.02	0 %100
23	M22	X	.034	.034	0 %100
24	M22	Z	.02	.02	0 %100
25	M23	X	.034	.034	0 %100
26	M23	Z	.02	.02	0 %100
27	M24	X	.034	.034	0 %100
28	M24	Z	.02	.02	0 %100
29	M25	X	.156	.156	0 %100
30	M25	Z	.09	.09	0 %100
31	M26	X	.156	.156	0 %100
32	M26	Z	.09	.09	0 %100
33	M27	X	.106	.106	0 %100
34	M27	Z	.061	.061	0 %100
35	M28	X	.106	.106	0 %100
36	M28	Z	.061	.061	0 %100
37	M31	X	.389	.389	0 %100
38	M31	Z	.225	.225	0 %100
39	M32	X	.389	.389	0 %100
40	M32	Z	.225	.225	0 %100
41	MP4A	X	.502	.502	0 %100
42	MP4A	Z	.29	.29	0 %100
43	MP3A	X	.502	.502	0 %100
44	MP3A	Z	.29	.29	0 %100
45	MP2A	X	.502	.502	0 %100
46	MP2A	Z	.29	.29	0 %100
47	MP1A	X	.502	.502	0 %100
48	MP1A	Z	.29	.29	0 %100
49	M44	X	.136	.136	0 %100
50	M44	Z	.079	.079	0 %100
51	M45	X	.136	.136	0 %100
52	M45	Z	.079	.079	0 %100
53	M46	X	.136	.136	0 %100
54	M46	Z	.079	.079	0 %100
55	M47	X	.136	.136	0 %100
56	M47	Z	.079	.079	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	.272	.272	0 %100
2	M1	Z	.471	.471	0 %100
3	M2	X	.272	.272	0 %100
4	M2	Z	.471	.471	0 %100
5	M13	X	.02	.02	0 %100
6	M13	Z	.034	.034	0 %100
7	M14	X	.02	.02	0 %100
8	M14	Z	.034	.034	0 %100
9	M15	X	.02	.02	0 %100
10	M15	Z	.034	.034	0 %100
11	M16	X	.02	.02	0 %100
12	M16	Z	.034	.034	0 %100
13	M17	X	.226	.226	0 %100
14	M17	Z	.392	.392	0 %100
15	M18	X	.226	.226	0 %100
16	M18	Z	.392	.392	0 %100
17	M19	X	.032	.032	0 %100
18	M19	Z	.056	.056	0 %100
19	M20	X	.032	.032	0 %100
20	M20	Z	.056	.056	0 %100
21	M21	X	.059	.059	0 %100
22	M21	Z	.102	.102	0 %100
23	M22	X	.059	.059	0 %100
24	M22	Z	.102	.102	0 %100
25	M23	X	.059	.059	0 %100
26	M23	Z	.102	.102	0 %100
27	M24	X	.059	.059	0 %100
28	M24	Z	.102	.102	0 %100
29	M25	X	.094	.094	0 %100
30	M25	Z	.163	.163	0 %100
31	M26	X	.094	.094	0 %100
32	M26	Z	.163	.163	0 %100
33	M27	X	.065	.065	0 %100
34	M27	Z	.113	.113	0 %100
35	M28	X	.065	.065	0 %100
36	M28	Z	.113	.113	0 %100
37	M31	X	.075	.075	0 %100
38	M31	Z	.13	.13	0 %100
39	M32	X	.075	.075	0 %100
40	M32	Z	.13	.13	0 %100
41	MP4A	X	.27	.27	0 %100
42	MP4A	Z	.468	.468	0 %100
43	MP3A	X	.27	.27	0 %100
44	MP3A	Z	.468	.468	0 %100
45	MP2A	X	.27	.27	0 %100
46	MP2A	Z	.468	.468	0 %100
47	MP1A	X	.27	.27	0 %100
48	MP1A	Z	.468	.468	0 %100
49	M44	X	.079	.079	0 %100
50	M44	Z	.136	.136	0 %100
51	M45	X	.079	.079	0 %100
52	M45	Z	.136	.136	0 %100
53	M46	X	.079	.079	0 %100
54	M46	Z	.136	.136	0 %100
55	M47	X	.079	.079	0 %100
56	M47	Z	.136	.136	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	M1	X	0	0	%100	
2	M1	Z	.725	.725	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.725	.725	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	.286	.286	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.286	.286	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.286	.286	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	.286	.286	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.158	.158	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.158	.158	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.158	.158	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.158	.158	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.163	.163	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.163	.163	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.163	.163	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.163	.163	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	0	0	0	%100
39	M32	X	0	0	0	%100
40	M32	Z	0	0	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	.521	.521	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	.521	.521	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	.521	.521	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	.521	.521	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	.158	.158	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	.158	.158	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	.158	.158	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	.158	.158	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-.272	-.272	0 %100
2	M1	Z	.471	.471	0 %100
3	M2	X	-.272	-.272	0 %100
4	M2	Z	.471	.471	0 %100
5	M13	X	-.02	-.02	0 %100
6	M13	Z	.034	.034	0 %100
7	M14	X	-.02	-.02	0 %100
8	M14	Z	.034	.034	0 %100
9	M15	X	-.02	-.02	0 %100
10	M15	Z	.034	.034	0 %100
11	M16	X	-.02	-.02	0 %100
12	M16	Z	.034	.034	0 %100
13	M17	X	-.032	-.032	0 %100
14	M17	Z	.056	.056	0 %100
15	M18	X	-.032	-.032	0 %100
16	M18	Z	.056	.056	0 %100
17	M19	X	-.226	-.226	0 %100
18	M19	Z	.392	.392	0 %100
19	M20	X	-.226	-.226	0 %100
20	M20	Z	.392	.392	0 %100
21	M21	X	-.059	-.059	0 %100
22	M21	Z	.102	.102	0 %100
23	M22	X	-.059	-.059	0 %100
24	M22	Z	.102	.102	0 %100
25	M23	X	-.059	-.059	0 %100
26	M23	Z	.102	.102	0 %100
27	M24	X	-.059	-.059	0 %100
28	M24	Z	.102	.102	0 %100
29	M25	X	-.065	-.065	0 %100
30	M25	Z	.113	.113	0 %100
31	M26	X	-.065	-.065	0 %100
32	M26	Z	.113	.113	0 %100
33	M27	X	-.094	-.094	0 %100
34	M27	Z	.163	.163	0 %100
35	M28	X	-.094	-.094	0 %100
36	M28	Z	.163	.163	0 %100
37	M31	X	-.075	-.075	0 %100
38	M31	Z	.13	.13	0 %100
39	M32	X	-.075	-.075	0 %100
40	M32	Z	.13	.13	0 %100
41	MP4A	X	-.27	-.27	0 %100
42	MP4A	Z	.468	.468	0 %100
43	MP3A	X	-.27	-.27	0 %100
44	MP3A	Z	.468	.468	0 %100
45	MP2A	X	-.27	-.27	0 %100
46	MP2A	Z	.468	.468	0 %100
47	MP1A	X	-.27	-.27	0 %100
48	MP1A	Z	.468	.468	0 %100
49	M44	X	-.079	-.079	0 %100
50	M44	Z	.136	.136	0 %100
51	M45	X	-.079	-.079	0 %100
52	M45	Z	.136	.136	0 %100
53	M46	X	-.079	-.079	0 %100
54	M46	Z	.136	.136	0 %100
55	M47	X	-.079	-.079	0 %100
56	M47	Z	.136	.136	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-.157	-.157	0 %100
2	M1	Z	.091	.091	0 %100
3	M2	X	-.157	-.157	0 %100
4	M2	Z	.091	.091	0 %100
5	M13	X	-.102	-.102	0 %100
6	M13	Z	.059	.059	0 %100
7	M14	X	-.102	-.102	0 %100
8	M14	Z	.059	.059	0 %100
9	M15	X	-.102	-.102	0 %100
10	M15	Z	.059	.059	0 %100
11	M16	X	-.102	-.102	0 %100
12	M16	Z	.059	.059	0 %100
13	M17	X	-.008	-.008	0 %100
14	M17	Z	.005	.005	0 %100
15	M18	X	-.008	-.008	0 %100
16	M18	Z	.005	.005	0 %100
17	M19	X	-.344	-.344	0 %100
18	M19	Z	.199	.199	0 %100
19	M20	X	-.344	-.344	0 %100
20	M20	Z	.199	.199	0 %100
21	M21	X	-.034	-.034	0 %100
22	M21	Z	.02	.02	0 %100
23	M22	X	-.034	-.034	0 %100
24	M22	Z	.02	.02	0 %100
25	M23	X	-.034	-.034	0 %100
26	M23	Z	.02	.02	0 %100
27	M24	X	-.034	-.034	0 %100
28	M24	Z	.02	.02	0 %100
29	M25	X	-.106	-.106	0 %100
30	M25	Z	.061	.061	0 %100
31	M26	X	-.106	-.106	0 %100
32	M26	Z	.061	.061	0 %100
33	M27	X	-.156	-.156	0 %100
34	M27	Z	.09	.09	0 %100
35	M28	X	-.156	-.156	0 %100
36	M28	Z	.09	.09	0 %100
37	M31	X	-.389	-.389	0 %100
38	M31	Z	.225	.225	0 %100
39	M32	X	-.389	-.389	0 %100
40	M32	Z	.225	.225	0 %100
41	MP4A	X	-.502	-.502	0 %100
42	MP4A	Z	.29	.29	0 %100
43	MP3A	X	-.502	-.502	0 %100
44	MP3A	Z	.29	.29	0 %100
45	MP2A	X	-.502	-.502	0 %100
46	MP2A	Z	.29	.29	0 %100
47	MP1A	X	-.502	-.502	0 %100
48	MP1A	Z	.29	.29	0 %100
49	M44	X	-.136	-.136	0 %100
50	M44	Z	.079	.079	0 %100
51	M45	X	-.136	-.136	0 %100
52	M45	Z	.079	.079	0 %100
53	M46	X	-.136	-.136	0 %100
54	M46	Z	.079	.079	0 %100
55	M47	X	-.136	-.136	0 %100
56	M47	Z	.079	.079	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	%100
2	M1	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	M13	X	-.158	-.158	0
6	M13	Z	0	0	%100
7	M14	X	-.158	-.158	0
8	M14	Z	0	0	%100
9	M15	X	-.158	-.158	0
10	M15	Z	0	0	%100
11	M16	X	-.158	-.158	0
12	M16	Z	0	0	%100
13	M17	X	-.176	-.176	0
14	M17	Z	0	0	%100
15	M18	X	-.176	-.176	0
16	M18	Z	0	0	%100
17	M19	X	-.176	-.176	0
18	M19	Z	0	0	%100
19	M20	X	-.176	-.176	0
20	M20	Z	0	0	%100
21	M21	X	0	0	%100
22	M21	Z	0	0	%100
23	M22	X	0	0	%100
24	M22	Z	0	0	%100
25	M23	X	0	0	%100
26	M23	Z	0	0	%100
27	M24	X	0	0	%100
28	M24	Z	0	0	%100
29	M25	X	-.147	-.147	0
30	M25	Z	0	0	%100
31	M26	X	-.147	-.147	0
32	M26	Z	0	0	%100
33	M27	X	-.147	-.147	0
34	M27	Z	0	0	%100
35	M28	X	-.147	-.147	0
36	M28	Z	0	0	%100
37	M31	X	-.599	-.599	0
38	M31	Z	0	0	%100
39	M32	X	-.599	-.599	0
40	M32	Z	0	0	%100
41	MP4A	X	-.599	-.599	0
42	MP4A	Z	0	0	%100
43	MP3A	X	-.599	-.599	0
44	MP3A	Z	0	0	%100
45	MP2A	X	-.599	-.599	0
46	MP2A	Z	0	0	%100
47	MP1A	X	-.599	-.599	0
48	MP1A	Z	0	0	%100
49	M44	X	-.158	-.158	0
50	M44	Z	0	0	%100
51	M45	X	-.158	-.158	0
52	M45	Z	0	0	%100
53	M46	X	-.158	-.158	0
54	M46	Z	0	0	%100
55	M47	X	-.158	-.158	0
56	M47	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-.157	-.157	0 %100
2	M1	Z	-.091	-.091	0 %100
3	M2	X	-.157	-.157	0 %100
4	M2	Z	-.091	-.091	0 %100
5	M13	X	-.102	-.102	0 %100
6	M13	Z	-.059	-.059	0 %100
7	M14	X	-.102	-.102	0 %100
8	M14	Z	-.059	-.059	0 %100
9	M15	X	-.102	-.102	0 %100
10	M15	Z	-.059	-.059	0 %100
11	M16	X	-.102	-.102	0 %100
12	M16	Z	-.059	-.059	0 %100
13	M17	X	-.344	-.344	0 %100
14	M17	Z	-.199	-.199	0 %100
15	M18	X	-.344	-.344	0 %100
16	M18	Z	-.199	-.199	0 %100
17	M19	X	-.008	-.008	0 %100
18	M19	Z	-.005	-.005	0 %100
19	M20	X	-.008	-.008	0 %100
20	M20	Z	-.005	-.005	0 %100
21	M21	X	-.034	-.034	0 %100
22	M21	Z	-.02	-.02	0 %100
23	M22	X	-.034	-.034	0 %100
24	M22	Z	-.02	-.02	0 %100
25	M23	X	-.034	-.034	0 %100
26	M23	Z	-.02	-.02	0 %100
27	M24	X	-.034	-.034	0 %100
28	M24	Z	-.02	-.02	0 %100
29	M25	X	-.156	-.156	0 %100
30	M25	Z	-.09	-.09	0 %100
31	M26	X	-.156	-.156	0 %100
32	M26	Z	-.09	-.09	0 %100
33	M27	X	-.106	-.106	0 %100
34	M27	Z	-.061	-.061	0 %100
35	M28	X	-.106	-.106	0 %100
36	M28	Z	-.061	-.061	0 %100
37	M31	X	-.389	-.389	0 %100
38	M31	Z	-.225	-.225	0 %100
39	M32	X	-.389	-.389	0 %100
40	M32	Z	-.225	-.225	0 %100
41	MP4A	X	-.502	-.502	0 %100
42	MP4A	Z	-.29	-.29	0 %100
43	MP3A	X	-.502	-.502	0 %100
44	MP3A	Z	-.29	-.29	0 %100
45	MP2A	X	-.502	-.502	0 %100
46	MP2A	Z	-.29	-.29	0 %100
47	MP1A	X	-.502	-.502	0 %100
48	MP1A	Z	-.29	-.29	0 %100
49	M44	X	-.136	-.136	0 %100
50	M44	Z	-.079	-.079	0 %100
51	M45	X	-.136	-.136	0 %100
52	M45	Z	-.079	-.079	0 %100
53	M46	X	-.136	-.136	0 %100
54	M46	Z	-.079	-.079	0 %100
55	M47	X	-.136	-.136	0 %100
56	M47	Z	-.079	-.079	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-272	-272	0 %100
2	M1	Z	-471	-471	0 %100
3	M2	X	-272	-272	0 %100
4	M2	Z	-471	-471	0 %100
5	M13	X	-.02	-.02	0 %100
6	M13	Z	-.034	-.034	0 %100
7	M14	X	-.02	-.02	0 %100
8	M14	Z	-.034	-.034	0 %100
9	M15	X	-.02	-.02	0 %100
10	M15	Z	-.034	-.034	0 %100
11	M16	X	-.02	-.02	0 %100
12	M16	Z	-.034	-.034	0 %100
13	M17	X	-.226	-.226	0 %100
14	M17	Z	-.392	-.392	0 %100
15	M18	X	-.226	-.226	0 %100
16	M18	Z	-.392	-.392	0 %100
17	M19	X	-.032	-.032	0 %100
18	M19	Z	-.056	-.056	0 %100
19	M20	X	-.032	-.032	0 %100
20	M20	Z	-.056	-.056	0 %100
21	M21	X	-.059	-.059	0 %100
22	M21	Z	-.102	-.102	0 %100
23	M22	X	-.059	-.059	0 %100
24	M22	Z	-.102	-.102	0 %100
25	M23	X	-.059	-.059	0 %100
26	M23	Z	-.102	-.102	0 %100
27	M24	X	-.059	-.059	0 %100
28	M24	Z	-.102	-.102	0 %100
29	M25	X	-.094	-.094	0 %100
30	M25	Z	-.163	-.163	0 %100
31	M26	X	-.094	-.094	0 %100
32	M26	Z	-.163	-.163	0 %100
33	M27	X	-.065	-.065	0 %100
34	M27	Z	-.113	-.113	0 %100
35	M28	X	-.065	-.065	0 %100
36	M28	Z	-.113	-.113	0 %100
37	M31	X	-.075	-.075	0 %100
38	M31	Z	-.13	-.13	0 %100
39	M32	X	-.075	-.075	0 %100
40	M32	Z	-.13	-.13	0 %100
41	MP4A	X	-.27	-.27	0 %100
42	MP4A	Z	-.468	-.468	0 %100
43	MP3A	X	-.27	-.27	0 %100
44	MP3A	Z	-.468	-.468	0 %100
45	MP2A	X	-.27	-.27	0 %100
46	MP2A	Z	-.468	-.468	0 %100
47	MP1A	X	-.27	-.27	0 %100
48	MP1A	Z	-.468	-.468	0 %100
49	M44	X	-.079	-.079	0 %100
50	M44	Z	-.136	-.136	0 %100
51	M45	X	-.079	-.079	0 %100
52	M45	Z	-.136	-.136	0 %100
53	M46	X	-.079	-.079	0 %100
54	M46	Z	-.136	-.136	0 %100
55	M47	X	-.079	-.079	0 %100
56	M47	Z	-.136	-.136	0 %100

Member Area Loads

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

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

Member	Shape	Code Check	Loc[ft]	LC	Sh...	Loc[ft]...	LC	phi*...	phi*...	phi*...	phi*...	Eqn		
1	M1	PIPE_...	.249	8.854	44	.116	3.776	8	1455..	50715	3.596	3.596	H1--	
2	M2	PIPE_...	.239	8.724	39	.124	3.776	12	1455..	50715	3.596	3.596	H1--	
3	M13	PL5/8x...	.345	0	1	.027	.422	y	8	6618..	6890..	.897	5.024	H1--
4	M14	PL5/8x...	.267	0	7	.020	.422	z	7	6618..	6890..	.897	5.024	H1--
5	M15	PL5/8x...	.213	0	43	.018	.422	z	43	6618..	6890..	.897	5.024	H1--
6	M16	PL5/8x...	.163	0	1	.023	.422	y	6	6618..	6890..	.897	5.024	H1--
7	M17	PIPE_...	.186	0	8	.088	0		23	3112..	32130	1.872	1.872	H1--
8	M18	PIPE_...	.101	0	3	.086	0		19	3112..	32130	1.872	1.872	H1--
9	M19	PIPE_...	.093	0	12	.064	0		42	3112..	32130	1.872	1.872	H1--
10	M20	PIPE_...	.155	0	6	.061	0		39	3112..	32130	1.872	1.872	H1--
11	M21	PL5/8x...	.410	.531	21	.059	.531	y	21	6759..	6890..	.897	5.024	H1--
12	M22	PL5/8x...	.336	.531	42	.041	.531	y	42	6759..	6890..	.897	5.024	H1--
13	M23	PL5/8x...	.400	.531	14	.075	.531	y	1	6759..	6890..	.897	5.024	H1--
14	M24	PL5/8x...	.326	.531	48	.040	.531	y	12	6759..	6890..	.897	5.024	H1--
15	M25	SR_0.75	.000	0	51	.017	0		11	2863..	1391..	.174	.174	H1--
16	M26	SR_0.75	.079	0	20	.015	0		5	2863..	1391..	.174	.174	H1--
17	M27	SR_0.75	.000	0	51	.011	0		41	2863..	1391..	.174	.174	H1--
18	M28	SR_0.75	.068	4.167	42	.014	0		45	2863..	1391..	.174	.174	H1--
19	M31	PIPE_...	.071	4.353	23	.006	0		22	1295..	32130	1.872	1.872	H1--
20	M32	PIPE_...	.071	4.353	15	.006	0		22	1295..	32130	1.872	1.872	H1--
21	MP4A	PIPE_...	.307	5.667	49	.089	2.333		11	1491..	32130	1.872	1.872	H1--
22	MP3A	PIPE_...	.417	2.333	7	.089	5.667		9	1491..	32130	1.872	1.872	H1--
23	MP2A	PIPE_...	.164	2.333	43	.041	2.333		43	1491..	32130	1.872	1.872	H1--
24	MP1A	PIPE_...	.396	2.333	40	.086	2.333		3	1491..	32130	1.872	1.872	H1--
25	M44	SR_0...	.248	1.632	12	.011	0		49	2158..	9664..	.101	.101	H1--
26	M45	SR_0...	.085	0	7	.007	0		44	2158..	9664..	.101	.101	H1--
27	M46	SR_0...	.062	1.667	7	.006	0		2	2158..	9664..	.101	.101	H1--
28	M47	SR_0...	.120	0	1	.012	0		41	2158..	9664..	.101	.101	H1--

Envelope Joint Reactions

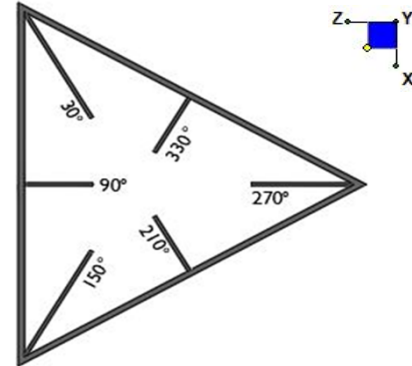
Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N35	max	910.436	46	1315.756	18	1794.855	13	-1.11	1	0	51	.166	42
2		min	-965.85	49	370.655	12	119.096	7	-568	19	0	1	-.18	49
3	N36	max	1459.017	10	1332.286	24	314.402	1	-.147	6	0	51	.166	42
4		min	-952.45	40	376.613	6	-1855.052	19	-.57	24	0	1	-.181	49
5	N63	max	184.127	2	55.097	20	575.96	2	0	51	0	51	0	51
6		min	-185.899	8	17.866	3	-583.296	8	0	1	0	1	0	1
7	N64	max	188.713	6	55.169	18	586.926	12	0	51	0	51	0	51
8		min	-188.144	12	17.495	12	-592.737	6	0	1	0	1	0	1
9	Totals:	max	1433.607	10	2722.236	24	2060.459	1						
10		min	-1433.607	4	938.552	6	-2060.461	7						



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N35	90
N36	90

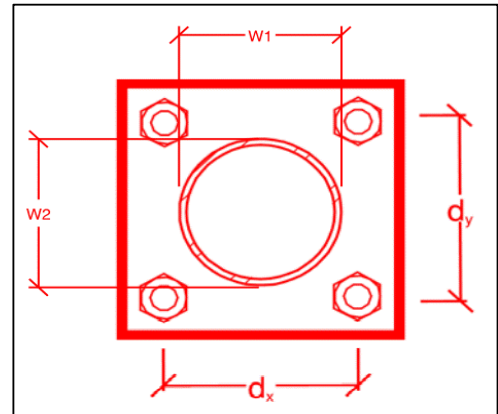


TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:
 Bolt Quantity per Reaction:
 d_x (in) (Delta X of typ. bolt config. sketch) :
 d_y (in) (Delta Y of typ. bolt config. sketch) :
 Bolt Type:
 Bolt Diameter (in):
 Required Tensile Strength (kips):
 Required Shear Strength (kips):
 Tensile Strength / bolt (kips):
 Shear Strength / bolt (kips):
 Tensile Capacity Overall:
 Shear Capacity Overall:

yes
2
9
3
A307
0.5
6.3
1.8
6.4
3.8
48.8%*
23.3%



*Note: Tension reduction not required if tension or shear capacity < 30%

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **New Mount Passing MA**

Purpose – to provide TES 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 modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Mount Analysis. NOTE If loading is different than what is conveyed in the modification drawing contact TES immediately.
- Verification that the New Mount Installed is as specified in the MA
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- 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.
- The photos in the file structure should be uploaded to vzwpmi@testtower.us as depicted on the drawings

Photo Requirements:

- **Base and “During Installation Photos”**
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- **Photos taken at ground level**
 - Overall tower structure before and after installation of the modifications
 - Photos of the appropriate mount before and after installation of the new mount;
- **Photos taken at Mount Elevation**
 - Photos showing each individual sector before and also after installation of equipment.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
 - Photos showing the newly installed mount that is as specified in the Mount Analysis
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing the climbing facility and safety climb if present.

Special Instructions / Validation as required from the MA or any other issues Identified during installation:

Issue:

--

Response:

ATTACH TIEBACKS TO THE ADJACENT TOWER LEGS AS SHOWN IN RISA RENDERED DIAGRAM. TIEBACK LOCATIONS ARE ALLOWED TO BE VERTICALLY ADJUSTED WITHIN 6" FOR FIT.
--

Schedule A – Photo & Document File Structure

- 📁 VzW Site Number / Name
 - 📁 Base & “During Installation” Photos
 - 📁 Pre-Installation Photos
 - 📁 Alpha
 - 📁 Beta
 - 📁 Gamma
 - 📁 Ground Level
 - 📁 Tape Drop
 - 📁 Post-Installation Photos
 - 📁 Alpha
 - 📁 Beta
 - 📁 Gamma
 - 📁 Ground Level
 - 📁 Tape Drop
 - 📁 Photos of climbing facility and safety climb – If Present
- 📁 Certifications – Submission of this document including certifications
- 📁 Specific Required Additional Photos

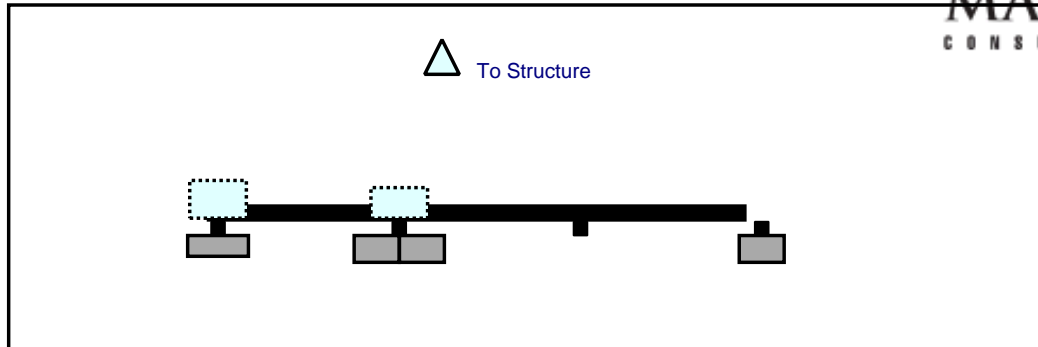
Sector: A
 Structure Type: Self Support
 Mount Elev: 102.00

12/18/2020

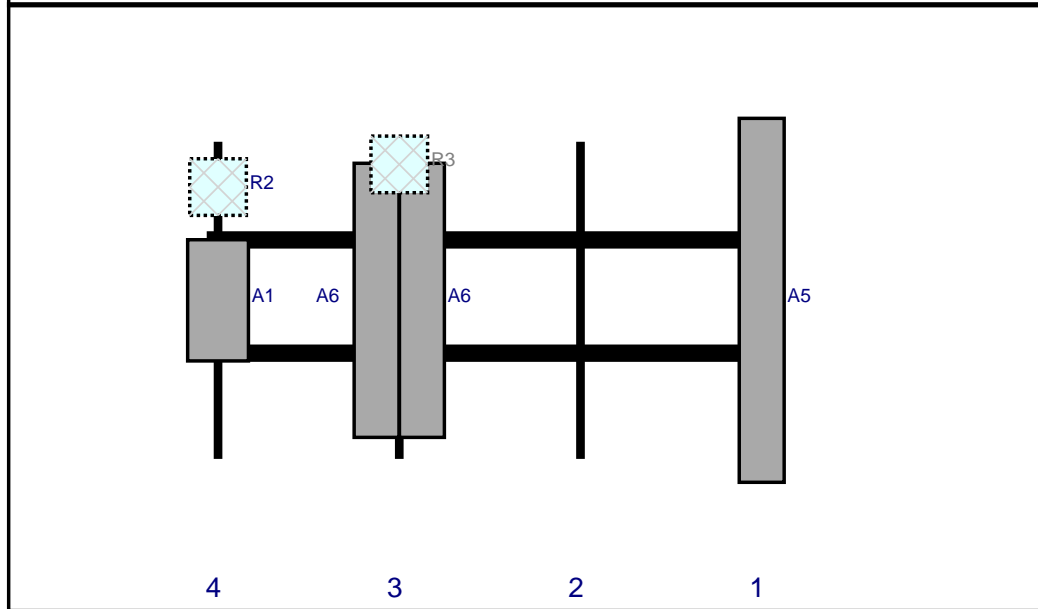
Page: 1



Plan View



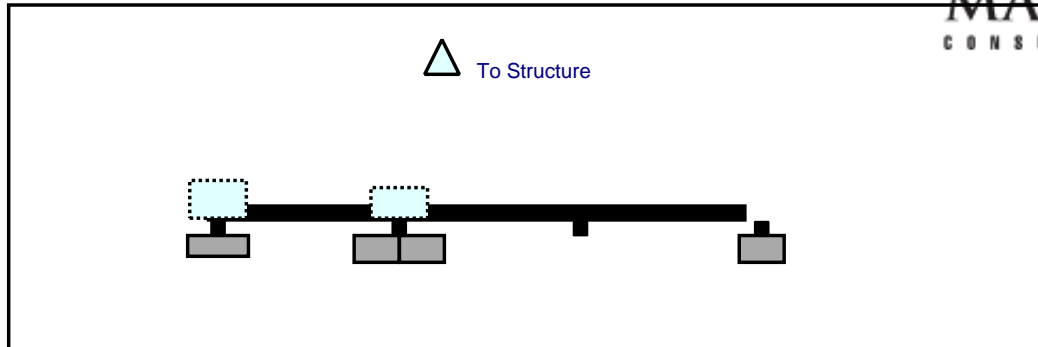
Front View
 Looking at Structure



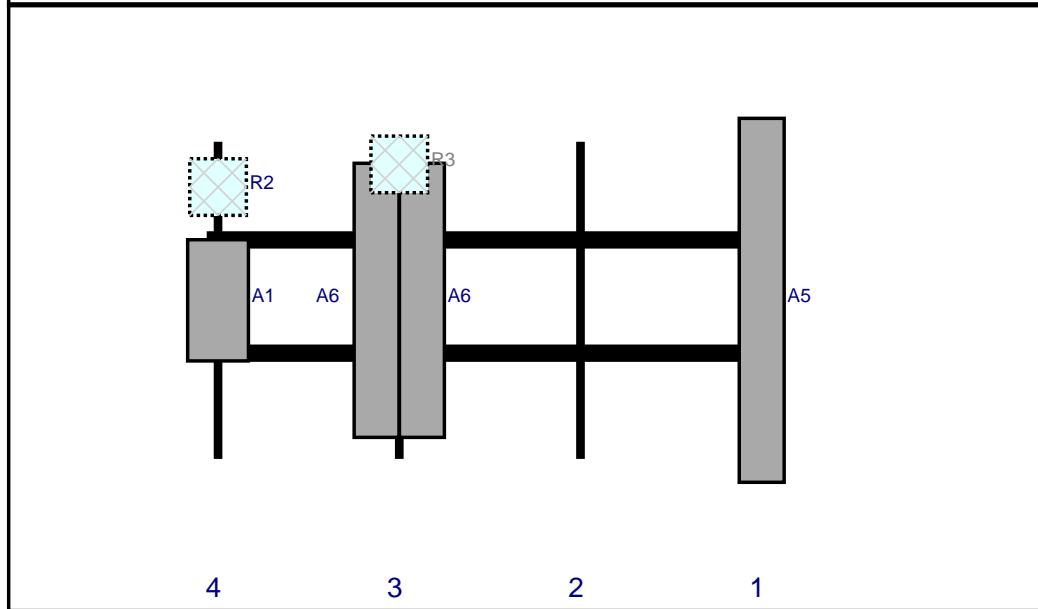
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	LNx-6515DS-A1M	96.4	11.9	147	1	a	Front	42	0	Retained	10/27/2020
A6	SBNHH-1D65B	72.6	11.9	51	3	a	Front	42	-6	Retained	10/27/2020
A6	SBNHH-1D65B	72.6	11.9	51	3	b	Front	42	6	Retained	10/27/2020
R3	B5/B13 RRH-BR04C	15	15	51	3	a	Behind	6	0	Added	
A1	Licensed Sub 6 Antennas	32.1	16.1	3	4	a	Front	42	0	Added	
R2	B2/B66A RRH-BR049	15	15	3	4	a	Behind	12	0	Added	



Plan View



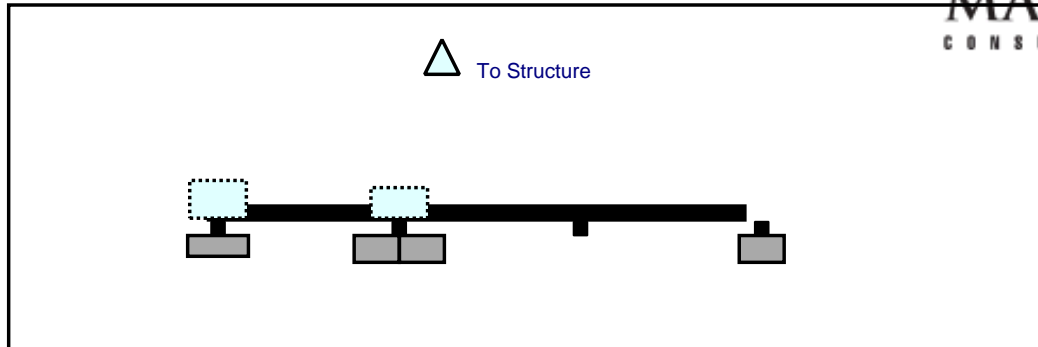
Front View
 Looking at Structure



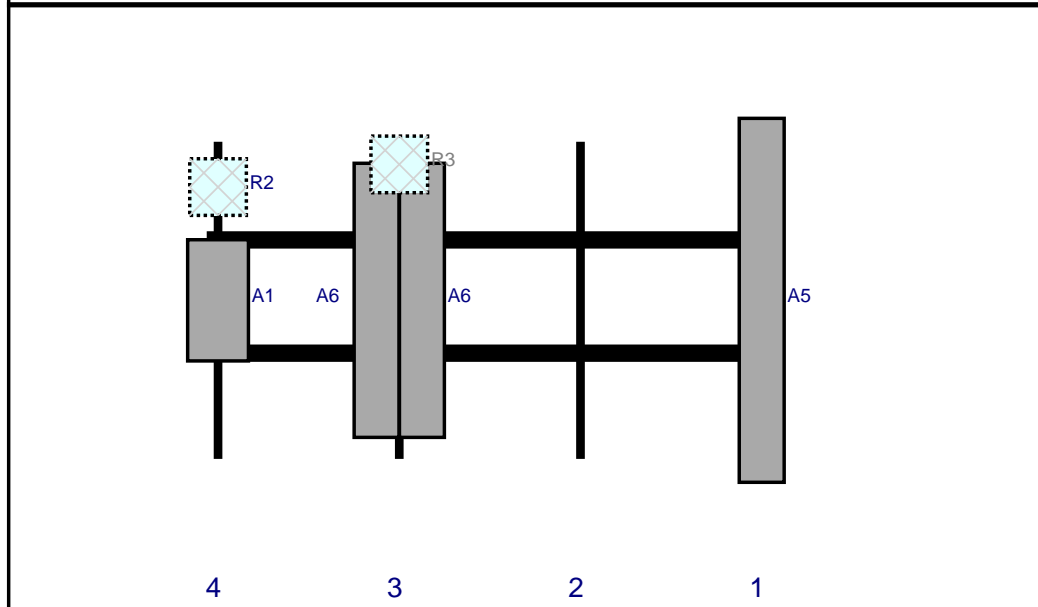
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	LNx-6515DS-A1M	96.4	11.9	147	1	a	Front	42	0	Retained	10/27/2020
A6	SBNHH-1D65B	72.6	11.9	51	3	a	Front	42	-6	Retained	10/27/2020
A6	SBNHH-1D65B	72.6	11.9	51	3	b	Front	42	6	Retained	10/27/2020
R3	B5/B13 RRH-BR04C	15	15	51	3	a	Behind	6	0	Added	
A1	Licensed Sub 6 Antennas	32.1	16.1	3	4	a	Front	42	0	Added	
R2	B2/B66A RRH-BR049	15	15	3	4	a	Behind	12	0	Added	



Plan View



Front View
 Looking at Structure



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
A5	LNx-6515DS-A1M	96.4	11.9	147	1	a	Front	42	0	Retained	10/27/2020
A6	SBNHH-1D65B	72.6	11.9	51	3	a	Front	42	-6	Retained	10/27/2020
A6	SBNHH-1D65B	72.6	11.9	51	3	b	Front	42	6	Retained	10/27/2020
R3	B5/B13 RRH-BR04C	15	15	51	3	a	Behind	6	0	Added	
A1	Licensed Sub 6 Antennas	32.1	16.1	3	4	a	Front	42	0	Added	
R2	B2/B66A RRH-BR049	15	15	3	4	a	Behind	12	0	Added	

Maser Consulting Connecticut

Subject

TIA-222-H Adoption and Wind Speed Usage

Site Information

Site ID: 20777295A
Site Name: **Manchester South CT**
Carrier Name: Verizon Wireless
Address: *577 Bell St.*
Glastonbury, Connecticut 06033
Hartford County

Latitude: 41.73364166°
Longitude: -72.54967777°

Structure Information

Tower Type: 112-Ft Self Support
Mount Type: 12.5-Ft Sector Frame

To Whom It May Concern,

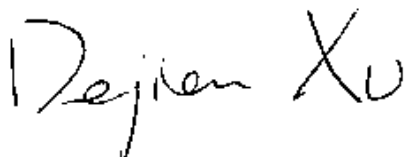
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this tower site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,



Dejian Xu, PE
Technical Specialist

March 29, 2021

Mr. Andrew Leone
Verizon Wireless
20 Alexander Dr.
Wallingford, CT 06492

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

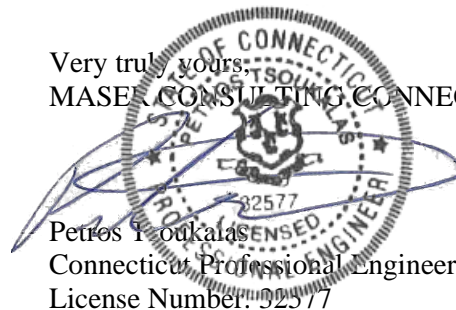
Dear Mr. Leone,

This letter is intended to clarify and confirm the antenna naming convention used by Verizon Wireless as a part of an antenna upgrade project on numerous wireless facilities.

The antenna naming convention “Licensed Sub-6, L-Sub6, nL-Sub6, VZS01” and any other slight variants refer to the 64T64RMMU antenna manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the “Antenna Mount Analysis”.

If you have any questions or comments, or require additional information, please do not hesitate to contact me.

Very truly yours,
MASER CONSULTING CONNECTICUT



Petros I. Ioukalis
Connecticut Professional Engineer
License Number: 32577

ATTACHMENT 5

☆ Parcel GIS ID 03200577



Owner Name: **577 BELL STREET LLC**

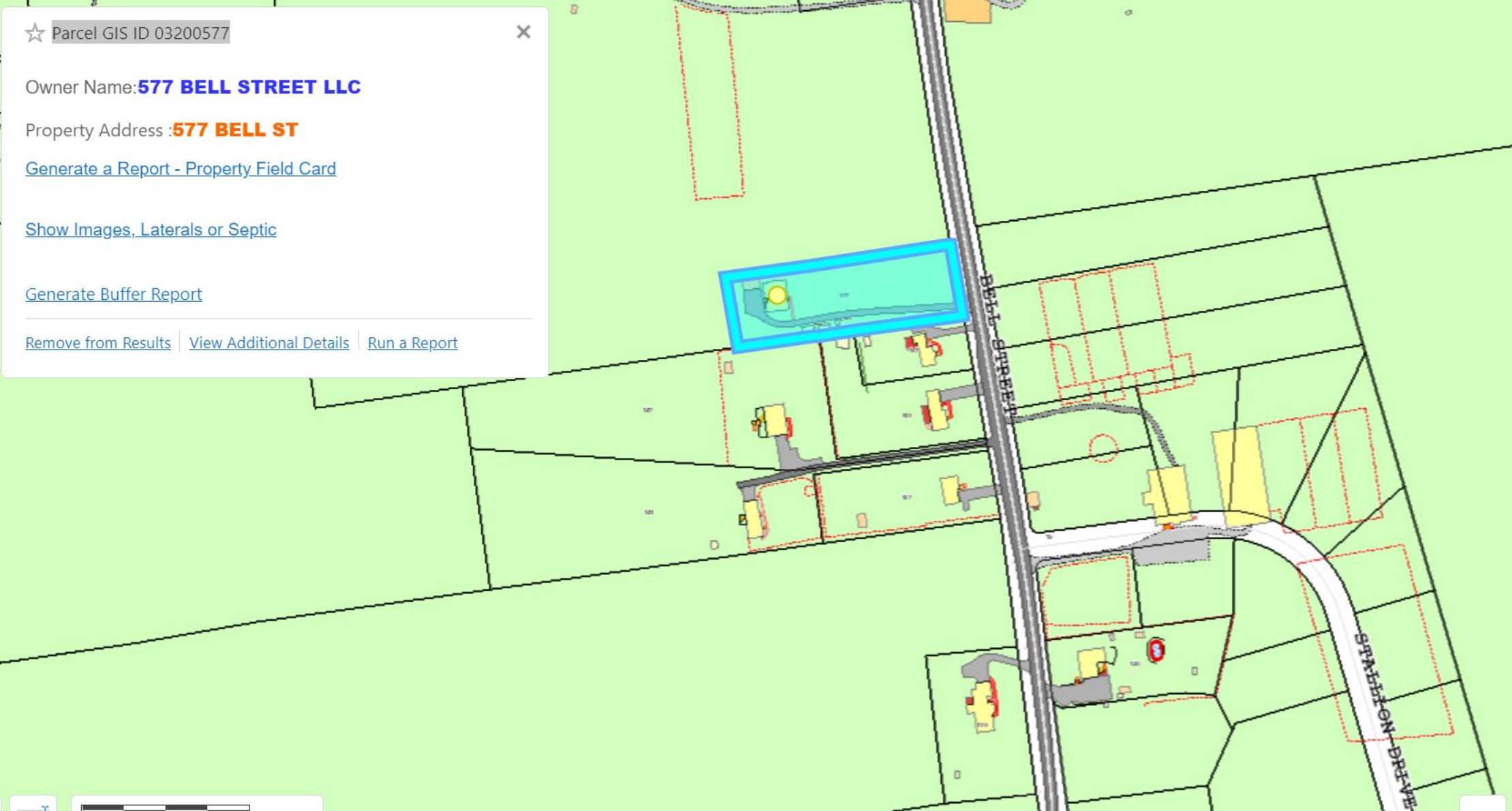
Property Address : **577 BELL ST**

[Generate a Report - Property Field Card](#)

[Show Images, Laterals or Septic](#)

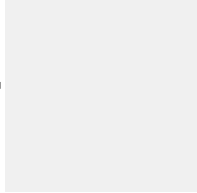
[Generate Buffer Report](#)

[Remove from Results](#) | [View Additional Details](#) | [Run a Report](#)





GLASTONBURY, CT



577 BELL ST

Location

577 BELL ST

Mblu

H3/ 0320/ W0011A/ /

Acct#

03200577

Owner

577 BELL STREET LLC

Assessment

\$277,500

Appraisal

\$396,400

PID

12497

Building Count

1

Current Value

Appraisal

Valuation Year	Improvements	Land	Total
2019	\$124,100	\$272,300	\$396,400

Assessment

Valuation Year	Improvements	Land	Total
2019	\$86,900	\$190,600	\$277,500

Owner of Record**Owner** 577 BELL STREET LLC**Co-Owner****Address** 499 BELL ST
GLASTONBURY, CT 06033-1419**Sale Price** \$0**Certificate****Book & Page** 3606/0118**Sale Date** 01/02/2020**Instrument** 69

Ownership History

Ownership History

Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
577 BELL STREET LLC	\$0		3312/0219	81	01/21/2016
SPENCER JOHN B IRREV TRUST	\$0		2938/0349	81	01/19/2012
SPENCER JOHN B REV TRUST	\$0		2400/0050	79	12/14/2006
SPENCER JOHN	\$0		0311/1146	79	12/19/1985

Building Information

Building 1 : Section 1

Year Built: 1977**Living Area:** 1,597**Replacement Cost:** \$152,515**Replacement Cost****Less Depreciation:** \$122,000**Building Attributes**

Field	Description
Style:	Ranch
Model	Residential

Grade:	Average
Stories	1 Story
Occupancy	1
Exterior Wall 1	Vinyl
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asphalt Shingl
Interior Wall 1	Drywall
Interior Wall 2	
Floor/Cover 1	Pine
Floor/Cover 2	
Heat Fuel	Oil
Heat Type:	Forced Air
AC Type:	None
Total Bedrooms:	2 Bedrooms
Total Bthrms:	1
Total Half Baths:	0
Num Xtra Fix	
Total Rooms:	4
Bath Qlty:	Average
Kitchen Qlty:	Average
Extra Kitchens	
Cndtn	
Inspection	
Int Condition	
Style Sub Class	
Bsmt Garages	2

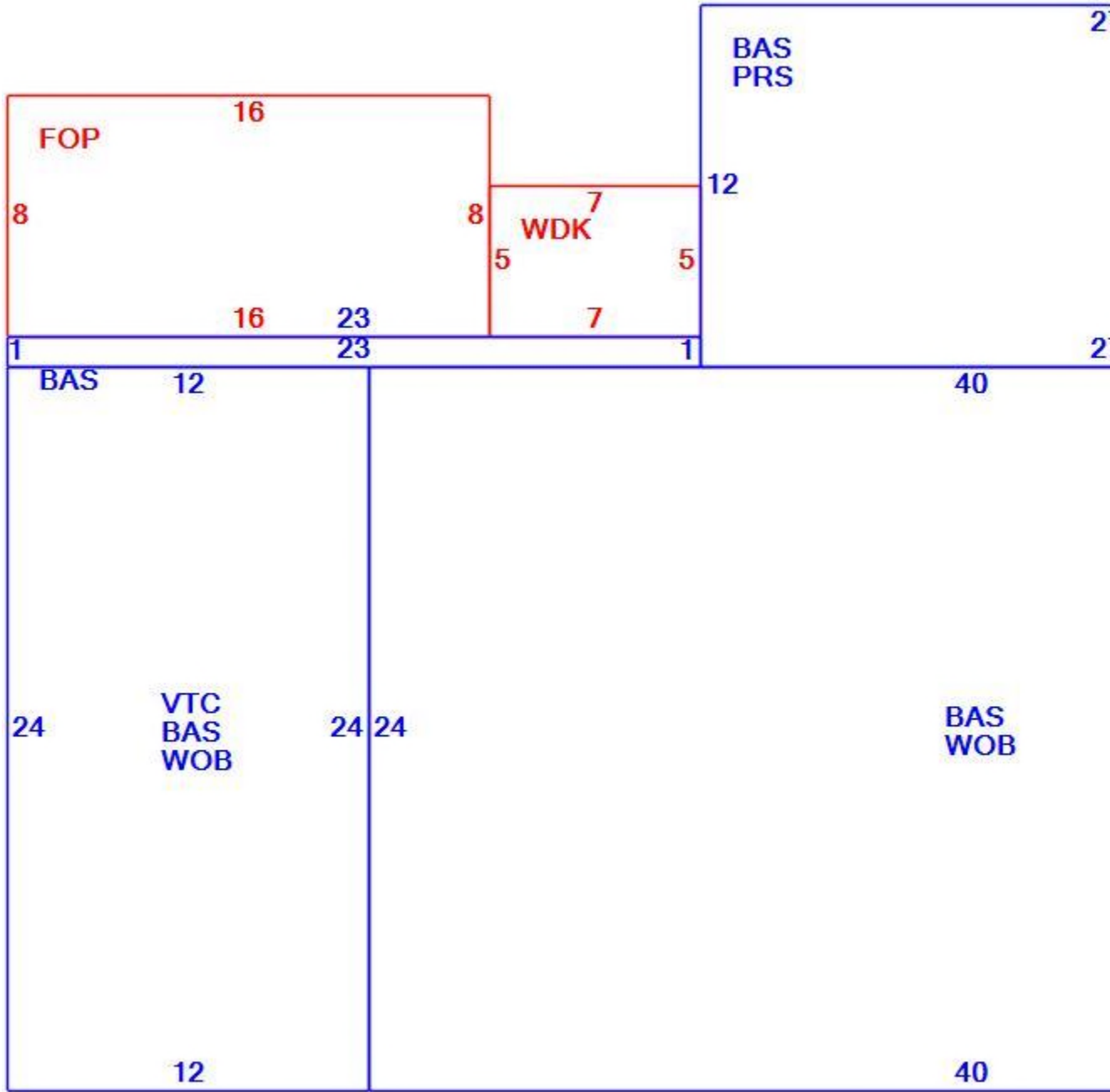
Fireplaces	1
Update Photo	
Funcntl Code	
External Code	
Fndtn Cndtn	
Basement	

Building Photo



Building Layout

2C



Building Sub-Areas (sq ft)

Code	Description	Gross Area	Living Area
BAS	First Floor	1,597	1,597
FOP	Porch, Open	128	0
PRS	Piers	324	0
VTC	Vaulted Ceiling	288	0
WDK	Wood Deck	35	0
WOB	Walk out basement	1,248	0
		3,620	1,597

Extra Features

Extra Features Legend

No Data for Extra Features

Land

Land Use

Use Code 101

Description Single Family

Zone RR

Category

Land Line Valuation

Size (Acres) 1.28

Assessed Value \$190,600

Appraised Value \$272,300

Outbuildings

Outbuildings Legend

Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
SHD1	Shed-Wood/Comp			560.00 S.F.	\$2,100	1

Valuation History

Appraisal

Valuation Year	Improvements	Land	Total
2020	\$124,100	\$272,300	\$396,400

Assessment

Valuation Year	Improvements	Land	Total
2020	\$86,900	\$190,600	\$277,500

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closecloseclose

ATTACHMENT 6



Certificate of Mailing — Firm

<p>UNITED STATES POSTAL SERVICE®</p> <p>Name and Address of Sender</p> <p>Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103</p>	<p>TOTAL NO. of Pieces Listed by Sender</p> <p>TOTAL NO. of Pieces Received at Post Office™</p> <p style="font-size: 2em; text-align: center;">3</p>	<p>Affix Stamp Here Postmark with Date of Receipt.</p> <p>neopost 05/06/2021 US POSTAGE \$002.89</p> <p>ZIP 06103 041112208937</p>	
<p>Postmaster, per (name of receiving employee)</p> <p style="font-size: 2em; text-align: center;">KQ</p>	<p>Address (Name, Street, City, State, and ZIP Code™)</p> <p>Richard J. Johnson, Town Manager Town of Glastonbury 2155 Main Street Glastonbury, CT 06033</p> <p>Peter Carey, Building Official/Zoning Enforcement Officer Town of Glastonbury 2155 Main Street Glastonbury, CT 06033</p> <p>Bell Street LLC 499 Bell Street Glastonbury, CT 06033</p>		
<p>USPS® Tracking Number Firm-specific Identifier</p>	<p>Postage</p>	<p>Fee</p>	<p>Special Handling</p>
<p>1.</p>			
<p>2.</p>			
<p>3.</p>			
<p>4.</p>			
<p>5.</p>			
<p>6.</p>			

