Robinson+Cole

KENNETH C. BALDWIN

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Also admitted in Massachusetts and New York

July 19, 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 11 Munn Road (a/k/a 112 Windham Avenue), Colchester, 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 Connecticut State Police ("CSP") filed an "Exempt" filing with the Siting Council in 1985 for the existing tower. My office did reach out to Siting Council staff to obtain a copy of the original CSP approval letter but, given its age, a copy of the approval letter is not available. Cellco's use of the tower was approved by the Council in May of 1990 (Metro Mobile CTS of New London, Inc.). A copy of the Council's approval of Cellco's shared use is included in <u>Attachment 1</u>.

Cellco now intends to modify its facility by adding three (3) new MT6407-77A antennas on Cellco's existing antenna mounts. A set of project plans showing Cellco's proposed facility modifications and the new antennas specifications are included in <u>Attachment 2</u>.

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 Colchester's Chief Elected Official and Land Use Officer.

Boston | Hartford | New York | Providence | Stamford | Albany | Los Angeles | Miami | New London | rc.com

Melanie A. Bachman, Esq. July 19, 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 new antennas will be installed on Cellco's existing antenna mounts.

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 will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for the modified facility is included in <u>Attachment 3</u>. Cellco's modified facility is capable of providing 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 and antenna mounts, with certain modifications, can support Cellco's proposed antenna modifications. Copies of the SA and MA are included in <u>Attachment 4</u>.

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

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. July 19, 2021 Page 3

Sincerely,

Kunie mm

Kenneth C. Baldwin

Enclosures

Copy to:

Andreas Bisbikos, Colchester First Selectman Ariel Lago, Colchester Zoning Enforcement Officer State of Connecticut, Property Owner Aleksey Tyurin

ATTACHMENT 1



Gloria Dibble Pond Chairperson

COMMISSIONERS

Energy / Telecommunications

Peter G. Boucher Leslie Carothers

Hazardous Waste/Low-level Radioactive Waste

Frederick G. Adams Bernard R. Sullivan

COUNCIL MEMBERS

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Stanley J. Modzelesky Executive Assistant

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401 New Britain, Connecticut 06051 Phone: 827-7682



May 1, 1990

Mr. David S. Malko, P.E. Manager, Engineering & Regulatory Services METRO MOBILE 50 Rockland Road South Norwalk, CT 06854

RE: Metro Mobile CTS of New London, Inc., Notice of Intent to Install Cellular Antennas and Related Equipment on a tower Owned by the State of Connecticut, Department of Public Safety in the Town of Colchester, Connecticut.

Dear Mr. Malko:

At a meeting on April 30, 1990, the Connecticut Siting Council acknowledged your notice of intent to install cellular antennas and related equipment on an existing tower facility owned by the State of Connecticut, Department of Public Safety, in Colchester, Connecticut, pursuant to Section 16-50j-73 of the Regulations of State Agencies (RSA).

The proposed modifications are to be implemented as specified in your notices dated April 16 and 30, 1990. As proposed, the modifications are in compliance with the exception criteria specified in RSA 16-50j-72 as changes to an existing facility site that do not increase the tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary 6 decibels, and add radio frequency sending or receiving capability which increases the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to Section 22a-162 of the Connecticut General Statutes. мі. David S. Maiko, г.н. May 1, 1990 Page 2

The Council is pleased to note that the shared use of an existing tower meets the Council's long-term goal and the public interest to avoid proliferation of additional tower structures.

Please notify the Council upon completion of construction.

Very truly yours,

selitele Four IR

Gloria Dibble Pond Chairperson

GDP/JMR/bd

4380E

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ATTACHMENT 2

PROJECT NOTES

- SITE INFORMATION OBTAINED FROM THE FOLLOWING:
 - A. PLAN ENTITLED "850-LTE CARRIER ADD CABLE DRAWINGS" PREPARED BY ON-AIR ENGINEERING, LLC OF COLD SPRING, NY DATED 06/15/2021.
- B. POST-MODIFICATION ANTENNA MOUNT ANALYSIS REPORT PREPARED BY COLLIERS ENGINEERING & DESIGN, INC OF MOUNT LAUREL, NJ DATED 7/2/2021.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
- 5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER
- 5 THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
- 8 THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS RRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS WUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREDANCIES RRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 9 SINCE THE CELL SITE MAY BE ACTIVE ALL SAFETY RESCUTIONS MUST BE TAKEN WHEN WORKING ARQUIDE INCH LEVELS OF ELECTROMAGNETIC RADIATION, EQUIPMENT SHOULD BE SHUTDOTHER INFORT TO FREVENING ANY WORK THAT COULD BHOSE THE MIROR TO DARGE WORK TO ALER TO FANT MONITORS ARE REQUIRED TO BE WORK TO ALER TO FANT POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- THE PROPOSED FACILITY WILL CAUSE NO INCREASE IN STORM WATER RUNOFF, THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- 12. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
- 13. THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTHS WITH RF ENGINEERING PRIOR TO INSTALLATION.
- ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL
- CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
- CONSTRUCTION SHALL NOT COMMENCE UNTIL COMPLETION OF A PASSING STRUCTURAL ANALYSIS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. THE STRUCTURAL ANALYSIS IS TO BE PERFORMED BY OTHERS
- CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.

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THIS DRAWING AND ALL THE INFORMATION CONTAINED HERDIN S AUTHORIZED TO BUSE ONLY SIT THE RARTY FOR WHOM THE WORK WAS CONTRACTED OR TO WHOM TIS CERTIFIED. THIS DRAWING MAY NOT BE COPIED, RAUSDA DISCLOSED, DISTRIBUTED OR RELIED UPON FOR ANY OTHER RURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF COLLERS INGINEERING & DEGISIN CT. P.C.

verizon

SITE NAME: COLCHESTER CT PSLC NUMBER: 467126 FUZE I.D. NUMBER: 16281612

11 MUNN ROAD COLCHESTER, CT 06415 NEW LONDON COUNTY

| VICIN | ITY MAP | PROJECT INFORMA | TION | PROJECT DESCRIPTION/ | STOR STATE DREVIDIC TREET RAFINE NUMPERS WOT |
|--|---|--|--------------------|---|--|
| | | SITE INFORMATION | | SCOPE OF WORK | WWW CALERT COM |
| | I du žost | LATITUDE: 41.5925° LONGITUDE: -72.321111° GROUND ELEVATION: 59152± AMSL JURISDICTION: CONNECTICUT SITING (<u>APPLICANT</u> COMPANY: VERIZON WIRELESS ADDRESS: 118 FLANDERS ROAD, TH CITY, STATE, ZIP: WESTBOROUGH, MA 015 <u>PROPERTY OWNER</u> | IND FLOOR | E PROPOSED PROJECT SCOPE INCLUDES MODIFYING TOWER JUNTED EQUIPMENT AS INDICATED PER BELOW. REMOVE (3) EXISTING ANTENNAS INSTALL (3) PROSED ANTENNAS INSTALL HARDWARE UPGRADES | XAS SHOWN Interview 21777740A 2 1001002 10040701 Fac FNA 2 1001002 10040701 Fac FNA 1 1007002 10040701 Fac FNA 1 1007002 10040700 Fac FNA 1 100702 10040700 Fac FAC FNA 1 100702 10040700 Fac FAC FAC FAC 1 100702 10040700 Fac |
| PROJECT LOCATION | | OWNER: STATE OF CONNECTICU ADDRESS: I65 CAPITOL AVENUE CITY, STATE, ZIP: HARTFORD CT, 06106 SITE ACQUISITION | т | | Programme |
| | | COMPANY: STRUCTURE CONSULTIN ADDRESS: 49 BRATTLE STREET CITY, STATE, ZIP: ARLINGTON, MA 02474 | | SHEET INDEX | CONNECT CLIT LICENSIS IN DIVERSIONAL BACKER DULIESE MARRING AN ARRIVAL CONSIGNATION CONNECTION OF CONSIGNATION OF CONSIGNATION CONNECTION OF CONSIGNATION OF CONSIGNATION OF CONSIGNATION CONSIGNATION OF CONSIGNATION OF CONSIGNATION OF CONSIGNATION OF CONSIGNATION CONSIGNATION OF CONSIGNATION OF CONSIGNATION OF CONSIGNATION OF CONSIGNATION OF CONSIGNATION OF CONSIGNATION CONSIGNATION OF CONSIGNATION OF CONSIGNATIONO OF C |
| SOURCE: BING MAPS | N | ENGINEERING COMPANY COMPANY: COLLIERS ENGINEERING & I CONTACT: PETE ALBANO, PE PHONE (056) 797-0412 | DESIGN C- A- | 2 ANTENNA LAYOUTS -1 CONSTRUCTION DETAILS | IT IS A VIOLATION OF EMPIRISAN UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSED LLCENSED PROFESSIONAL ENGINEER TO ALTER THE DOCUMENT. SITTE NAME: |
| CODE CO | MPLIANCE | E-MAIL: PETERALBANO@COLLIERS | ENGINEERING.COM G- | | COLCHESTER CT |
| ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NO | INTERCENTION OF THE FOURIENT EDITIONS OF THE FOLLOWING DTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT HITONS OF THE FOLLOWING CODES. 8. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS BI IEEE C2 LATEST EDITION | CONTRACTOR P REQUIREMENT | | PMI REQUIREMENTS | FULC NUMBER: 467126 FUZE LD. NUMBER: 467126 FUZE LD. NUMBER: 16281612 11 MUNN ROAD COLCHESTER: CT 06415 NEW LONDON COUNTY |
| 2. 2017 NATIONAL ELECTRICAL CODE - NFPA 70 | 9. TELCORDIA GR-1275 | PMI LOCATION HTTPS://PMLV SMART TOOL VENDOR PROJECT #, 10058930.00 | ZWSMART.COM | | Ļ |
| 3. 2015 NFPA 101 | 10. ANSI TI.311 | VZW LOCATION CODE (PSLC): 467126 | | | Colliers MADISON 135 New Road |
| 4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10 | 11. PROPOSED USE: UNMANNED TELECOM FACILITY | ANALYSIS DATE: 7/2/2021 | | | Matisco, CT 08443 Phote: B00395 0022 |
| 5. AMERICAN CONCRETE INSTITUTE | HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED. | *** PMI AND REQUIREMENTS ARE EMBEDDED IN N REPORT | 10UNT ANALYSIS | | B Design Downawskie consultation Sweet in the |
| 6. TIA-222-H | 13. CONSTRUCTION TYPE: IIB | HARDWARE UPGRADES REQUIRED : YES | | | TITLE SHEET |
| 7. TIA 607 FOR GROUNDING | 14. USE GROUP: U | REFER TO MOUNT MODIFICATION DRAWINGS SMART KIT APPROVED VENDOR | | | SHITHANNER: |

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

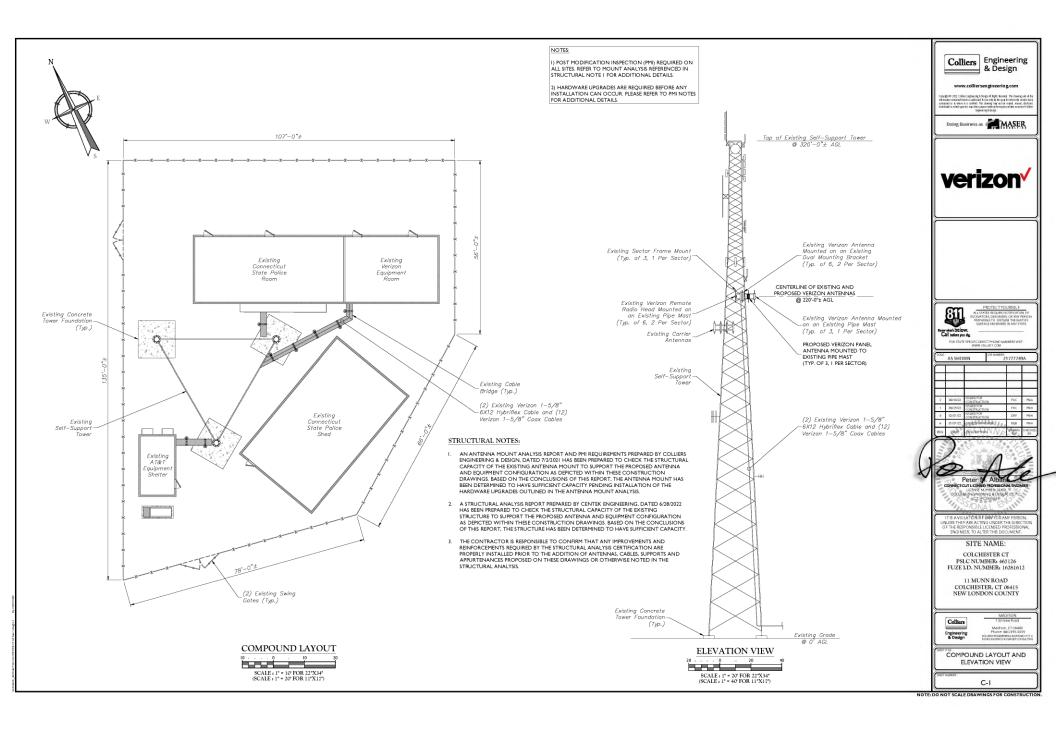
Colliers Engineering

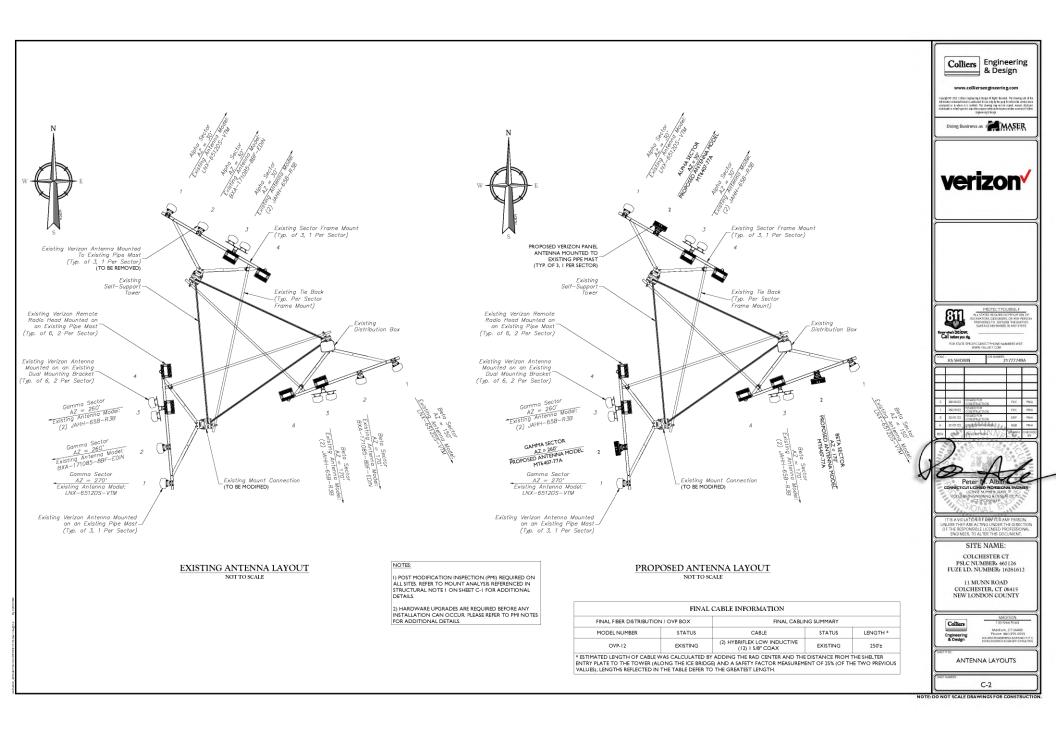
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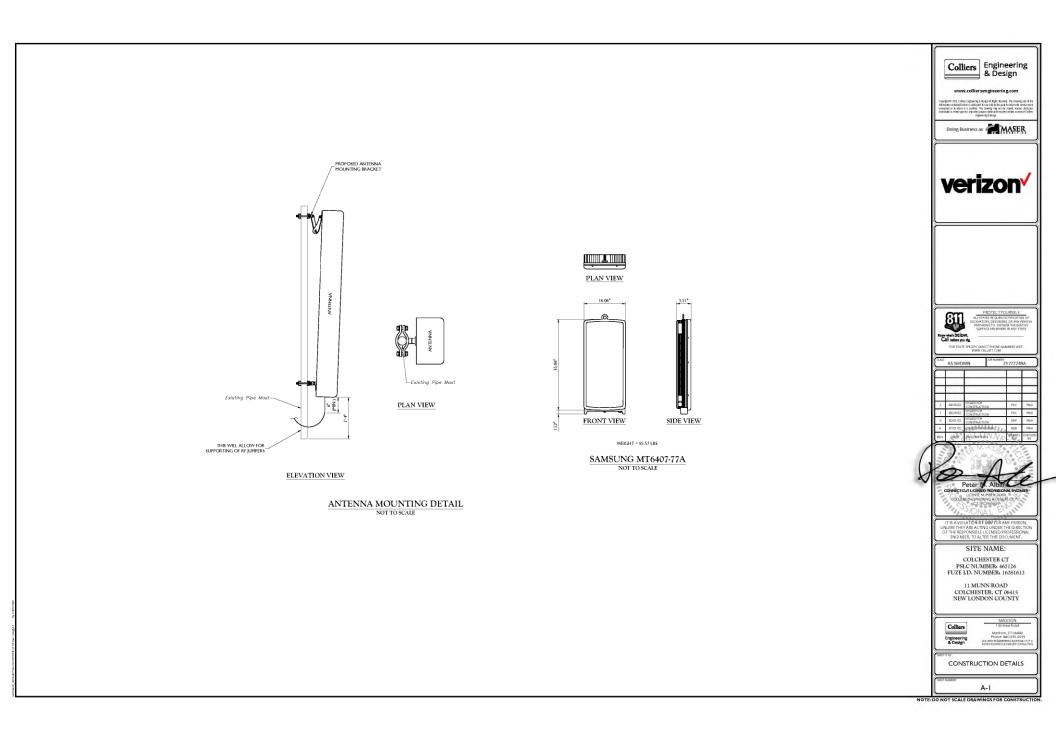
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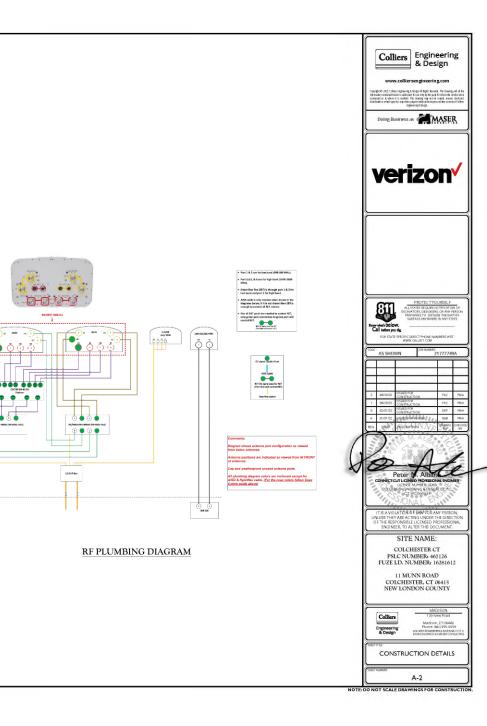
| | | | | | | | | | Antenna S | ummary | | | |
|--------|-----------|------|-----|--------|----------|---------------------|------------|------------|------------------------------------|--------|-------|------------|----------|
| Added | | | | | | | | | | | | | |
| 700 | 850 | 1900 | AWS | L-Sub6 | Make | Model | Centerline | Tip Height | Azimuth | RET | 4xRx | Inst. Type | Quantity |
| | | | | 5G | Samsung | MT6407-77A | 220 | 221.5 | 30(0109) 170(0110) 260(0111) | false | false | PHYSICAL | 3 |
| Remov | ed | | | | | | | | | | | | |
| 700 | 850 | 1900 | AWS | L-Sub6 | Make | Model | Centerline | Tip Height | Azimuth | RET | 4xRx | Inst. Type | Quantity |
| | | | | | AMPHENOL | BXA-171085-88F-EDIN | 220 | 222 | | false | false | SPARE | 3 |
| Retain | | | | | | | | | | | | | |
| 700 | 850 | 1900 | AWS | L-Sub6 | Make | Model | Centerline | Tip Height | Azimuth | RET | 4xRx | Inst. Type | Quantity |
| LTE | LTE 5G | LTE | LTE | | ANDREW | JAHH-65B-R3B | 220 | 223 | 30(01) 170(02) 260(03) | true | true | PHYSICAL | 6 |
| | CDMA | | | | ANDREW | LNX-6512DS-VTM | 220 | 222 | 30(D1) 150(D2) 270(D3) | false | false | PHYSICAL | 3 |

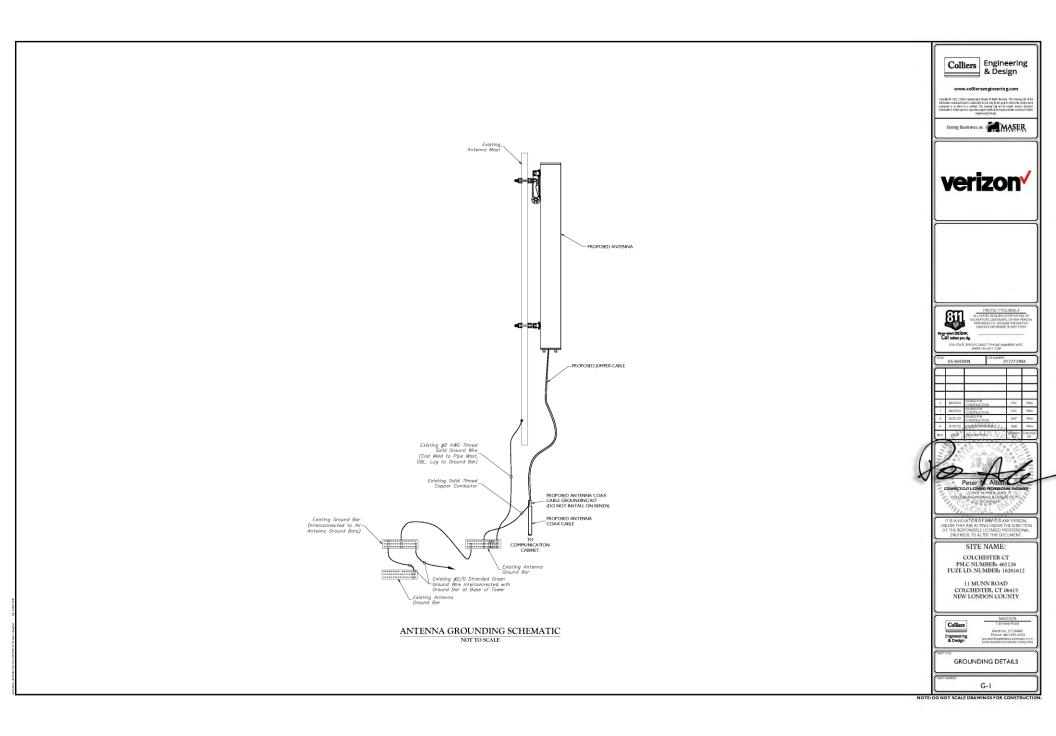
Added: 3 Removed: 3 Retained: 9

Tower' Waterbanko Risoftop Centerrord Pad

| | Equipment Summary | | | | | | | | | | | |
|----------------|-------------------|-----|-----------|------|-----|--------|-----------|-----------------------------------|--------------------|------------|--------------|----------|
| Added | | | | | | | | | • | | | |
| Equipment Type | Location | 700 | 850 | 1900 | AWS | L-Sub6 | Make | Model | Cable Length | Cable Size | Install Type | Quantity |
| RRU | Tower | | | | | 5G | Samsung | MT6407-77A | | | PHYSICAL | 3 |
| Removed | | | | | | | | | | | | |
| Equipment Type | Location | 700 | 850 | 1900 | AWS | L-Sub6 | Make | Model | Cable Length | Cable Size | Install Type | Quantity |
| | | | | | | | | | No data available. | | | |
| Retained | | | | | | | | | | | | |
| Equipment Type | Location | 700 | 850 | 1900 | AWS | L-Sub6 | Make | Model | Cable Length | Cable Size | Install Type | Quantity |
| Mount | Tower | | | | | | Commscope | BSAMNT-SBS-2-2 | | | PHYSICAL | 3 |
| Diplexer | Tower | LTE | LTE 5G | | | | Commscope | CBC78T-DS-43-2X | | | PHYSICAL | 3 |
| Coaxial Cables | Tower | | | | | | N/A | 1-5/8" Coax | | 15/8" | SPARE | 6 |
| Coaxial Cables | Tower | | CDMA | | | | N/A | 1-5/8" Coax | | 15/8" | PHYSICAL | 6 |
| Hybrid Cable | Tower | LTE | LTE 5G | LTE | LTE | 5G | N/A | 6x12 Hybriflex | | 15/8= | PHYSICAL | 2 |
| OVP Box | Tower | LTE | LTE 5G | LTE | LTE | 5G | Raycap | OVP-12 | | | PHYSICAL | 1 |
| RRU | Tower | | | LTE | LTE | | Samsung | B2/B66A RRH-BR049 (RFV01U-D1A) | | | PHYSICAL | 3 |
| RRU | Tower | LTE | LTE 5G | | | | Samsung | B5/B13 RRH-BR04C (RFV01U-D2A) | | | PHYSICAL | 3 |

ANTENNA SCHEDULE





POST-MODIFICATION INSPECTION (PMI) REQUIREMENTS

- 1. PMI REQUIRED FOR ALL SITES, REFER TO VERIZON NSTD-446 SECTION 1.5 AND 2.3 FOR MORE INFORMATION.
- 2. CONTRACTOR SHALL REFER TO THE MOUNT ANALYSIS BY COLLIERS ENGINEERING & DESIGN, INC DATED 7/2/2021 FOR ADDITIONAL DETAILS.
- 3. GENERAL CONTRACTOR SHALL PROVIDE THE BELOW DOCUMENTATION TO THE STRUCTURAL ENGINEER OF RECORD VIA EMAIL, DROPBOX, OR OTHER FILE SHARE METHOD. PROVIDE HIGH RESOLUTION PHOTO'S (DO NOT COMPRESS).
- 4. STRUCTURAL ENGINEER OF RECORD WILL CONDUCT A REVIEW OF THE PROVIDED DOCUMENTS TO PREPARE A PMI REPORT. STRUCTURAL ENGINEER OF RECORD WILL NOTIFY GENERAL CONTRACTOR IF ANY ADDITIONAL DOCUMENTATION IS REQUIRED TO COMPLETE THE PMI.
- PMI DOCUMENTATION SHALL BE SUFFICIENT TO CONFIRM THE UPGRADE WAS BUILT AS DESIGNED, INCLUDING EQUIPMENT CHANGES AND STRUCTURAL MODIFICATIONS, AND IS IN ADDITION TO ANY OTHER REQUIRED CLOSEOUT PACKAGE DOCUMENTATION.
- REQUIRED DOCUMENTATION FOR PMI INCLUDES THE FOLLOWING AT A MINIMUM. REFER TO THE MOUNT ANALYSIS FOR POSSIBLE ADDITIONAL INFORMATION. IF STRUCTURAL MODIFICATIONS ARE REQUIRED, REFER TO THE MODIFICATION DRAWINGS FOR POSSIBLE ADDITIONAL REQUIREMENTS.
 - a. PROVIDE PRE-AND-POST CONSTRUCTION PHOTOS OF EACH SECTOR FROM THE MOUNT ELEVATION AND THE GROUND. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PHOTO'S PROVIDED PROVIDE POSITIVE CONFIRMATION THAT THE MODIFICATION/UPGRADE WAS COMPLETED IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS AND ANY STRUCTURAL/MOUNT MODIFICATION DRAWINGS. CONTRACTOR SHALL RELAY ANY DATA THAT CAN IMPACT THE PERFORMANCE OF THE MOUNT OR MOUNT MODIFICATION, INCLUDING SAFETY ISSUE, PHOTOS SHALL HAVE A DATE/TIME STAMP IN THE PHOTO. REFER TO THE MOUNT ANALYSIS FOR SCHEDULE OF REQUIRED PHOTOS. PROVIDE PHOTOS OF THE GATE SIGNS AND CARRIER SHELTER TO IDENTIFY THE TOWER OWNER, SITE NAME, SITE NUMBER, ETC.
- b. VERIFICATION OF THE MEMBER CONNECTIONS, BRACING, AND RELEVANT DIMENSIONS.
- c. VERIFICATION OF THE ANTENNA AND OTHER EQUIPMENT CONFIGURATION (PHOTOS OF MODEL NUMBERS/TAGS FOR ALL EQUIPMENT, AS WELL AS THE FEEDLINE CONFIGURATION). TAKE PHOTOS OF THE BACK SIDE OF EACH SECTOR AS WELL AS CLOSE-UPS OF ALL EQUIPMENT, PHOTOS SHOULD CONFIRM THE HORIZONTAL AND VERTICAL POSITIONING OF THE ANTENNAS AND EQUIPMENT AND SHALL HAVE TAPE MEASURES IN THE PHOTOS TO CONFIRM.
- d. FOR TIEBACKS, STRUTS, MOUNT PIPES, PHOTOS TO CONFIRM THE ANGLES AND LOCATIONS OF ATTACHMENT POINT AT BOTH ENDS OF MEMBER, AS WELL AS DIMENSIONS, THICKNESS, AND LENGTHS OF THE MEMBERS. REFER TO THE CHECKLIST IN THE MOUNT ANALYSIS OR MOUNT MOD DRAWINGS FOR ADDITIONAL INFORMATION.
- e. MATERIALS USED (TYPE, STRENGTH, DIMENSIONS, ETC.). PROVIDE BILL OF MATERIAL AND MATERIAL SPEC TO CONFIRM MATERIAL GRADES AND SIZES. PROVIDE DOCUMENTATION FOR GALVANIZATION OF MEMBERS WHETHER HOT-DIPPED OR COLD-GALVANIZED. IF MATERIALS DIFFER FROM THOSE SPECIFIED ON THESE DRAWINGS, PROVIDE DOCUMENTATION THAT THE "EQUIVALENT" MATERIAL HAS THE SAME SPECIFICATIONS.
- f. MOUNT ORIENTATION/AZIMUTH AND ELEVATION, PROVIDE TAPE DROP OF ANTENNA CENTERLINE(S) AND MOUNT ATTACHMENT POINTS TO THE SUPPORTING STRUCTURE. IF THERE ARE MULTIPLE RAD CENTERS, PROVIDE PHOTOS OF ALL ELEVATIONS.
- g. VERIFICATION THAT THE INSTALL HAS NOT CAUSED DAMAGE TO OR UNPLANNED OBSTRUCTION OF THE FOLLOWING: • CLIMBING FACILITIES
 - •SAFETY CLIMB IF PRESENT, INCLUDING PHOTOS ABOVE AND BELOW THE MOUNT
 - LIGHTING SYSTEMS

7.

•OTHER INSTALLED SYSTEMS ON THE STRUCTURE

CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS SUPPORTED AND NOT ADVERSELY AFFECTED BY THE INSTALLATION OF
 NEW COMPONENTS. THIS MAY INVOLVE THE INSTALLATION OF WIRE ROPE GUIDES OR OTHER ITEMS TO PROTECT THE WIRE
 ROPE.

OTHER ITEMS DETERMINED BY THE STRUCTURAL ENGINEER TO ENSURE THE MOUNT WILL PERFORM AS DESIGNED. PHOTOS OF RELEVANT MEASUREMENTS, WITH SUFFICIENT DETAILS TO CONFIRM CONNECTION DETAILS, PLACEMENT OF EQUIPMENT, WALL ANCHOR DETAILS, BALLAST QUANTITIES, STRUCTURAL MODIFICATION ETC. DIAMETERS AND THICKNESS OF BOLTS/THREADED RODS/ANGLES/TUBES ETC. SHALL HAVE PHOTOS CONFIRMING CALIPER MEASUREMENTS.

•CONFIRMATION THAT ALL HARDWARE WAS PROPERLY INSTALLED, AND EXISTING HARDWARE WAS INSPECTED FOR ANY ISSUES

•FOR BALLAST SLEDS, DOCUMENTATION OF THE WEIGHT OF BALLAST IN EACH SECTOR

•FOR WALL ANCHORS, PHOTOS, AND MEASUREMENTS OF OUTSIDE AND INSIDE OF CONNECTIONS, DOCUMENTATIONS OF ADHESIVE USED, SIZE AND LENGTH OF ANCHORS, EFFECTIVE EMBEDMENT DEPTH OF THE ANCHORS, GROUTING OF HOLLOW WALLS, SPACING AND EDGE DISTANCE MEASUREMENTS, AND ANY THROUGH-BOLTS OR BACKING PLATES.

•FOR STUD WELD CONNECTION, DOCUMENTATION TO CONFIRM SURFACE PREPARATION, STUD WELD SIZE, GRADE, LENGTH, AND SPACING.

•FOR FABRICATED PARTS, SHOP DRAWINGS TO BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION •FOR WELD PARTS, CERTIFIED WELD INSPECTION

•FOR BOLTED PARTS, BOLT INSTALLATION AND TOROUE

- CONTRACTOR SHALL PROVIDE, IN ADDITION TO THE ABOVE, AS-BUILT CDS WITH REDLINES IDENTIFYING ANY CHANGES. THE AS-BUILTS SHALL HAVE THE CONTRACTOR'S NAME, PREPARER'S SIGNATURE, AND DATE.
- . IF THE MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED PMI"), THE CONTRACTOR SHALL WORK WITH THE ENGINEER OF RECORD TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

a. CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENTAL PMI.

b. OR, WITH EOR'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT/UPGRADUSING THE AS-BUILT CONDITION

- NOTE: IF LOADING IS DIFFERENT THAN THAT SHOWN IN THESE CONSTRUCTION DRAWINGS OR STRUCTURAL/ MOUNT MODIFICATION DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY FOR RESOLUTION.
- 10. THE ENGINEERING FIRM PERFORMING AN ANALYSIS SHALL PROVIDE A CONTRACTOR'S PHOTO LOG AND CHECKLIST TO BE COMPLETED BY THE INSTALLING CONTRACTOR. THE CONTRACTOR SHALL THEN PROVIDE POST-INSTALLATION INFORMATION TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL REVIEW THE DOCUMENTS FOR ANY DEFICIENCIES THAT CAN BE DETERMINED FROM THE DESKTOP REVIEW OF THE DATA. THE ENGINEERING FIRM SHALL THEN PROVIDE DOCUMENTATION TO VZV THAT THE STRE IS COMPLETED, AND THE PMI REPORT IS APPROVED.

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| Colliers Engineering & Design |
| www.colliersengineering.com |
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| PROTECT YOURSELF ALISTATS INCOMENTATION OF EXAMATORS DESIGNED OF ANY ANY HERAENSTON DISTURB THE BATTHS SUPACE ANYWHERE IN ANY STATE |
| SUIFACE ANY WHERE IN ANY STATE Call before you de |
| FOR STATE SPECIAL DIRECT PHONE NUMBERS VISIT: WWW CALLEDT COM |
| AS SHOWN 21777749A |
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| 2 D6/30/22 TESLED FOR FAC PNA CONSTRUCTION FAC PNA INSUED FOR |
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| COLCHESTER CT PSLC NUMBER: 467126 FUZE I.D. NUMBER: 16281612 |
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SAMSUNG

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

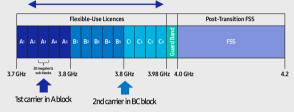
Points of Differentiation

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



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.

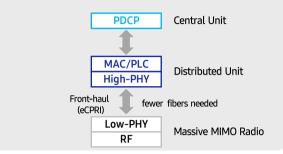


Technical Specifications

| ltem | 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 |

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.



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.



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.

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ATTACHMENT 3

| | General | Power | Density | | | | | |
|-------------------------------|------------|-----------|---------|---------|---------------------|----------------------|-----------------|--------|
| Site Name: Colchester | | | | | | | | |
| Tower Height: Verizon @ 220ft | | | | | | | | |
| CARRIER | # OF CHAN. | WATTS ERP | HEIGHT | FREQ. | CALC. POWER DENS | MAX. PERMISS.EXP. | FRACTION MPE | Total |
| *Antenna no. 2 (CSP/FBI) | 1 | 330 | 320 | 154.665 | 0.0001799 | 0.2 | 0.01 | |
| *Antenna no. 3 (CSP) | 1 | 1015 | 315 | 2141 | 0.0000014 | 1 | 0 | |
| *Antenna no. 4 (SHP) | 1 | 398 | 294 | 151.355 | 0.0002404 | 0.2 | 0.01 | |
| *Antenna no. 5 (DEP) | 1 | 175 | 292 | 44.72 | 0.0001103 | 0.2 | 0.01 | |
| *Antenna no. 6 | 1 | 100 | 257 | 153.935 | 0.000081 | 0.2 | 0 | |
| *Antenna no. 7 (OEM) | 1 | 178 | 243 | 45.2 | 0.0001605 | 0.2 | 0.01 | |
| *Antenna no. 8 (CSP) | 1 | 330 | 227 | 42.04 | 0.000349 | 0.2 | 0.02 | |
| *Antenna no. 9 (DEP) | 1 | 125 | 138 | 75.5 | 0.0003697 | 0.2 | 0.02 | |
| *Antenna no. 10 (CSP) | 1 | 569 | 97 | 2138 | 0.0000116 | 1 | 0 | |
| *Antenna no. 11 (CSP) | 1 | 252 | 90 | 2133.2 | 0.0000087 | 1 | 0 | |
| *Antenna no. 12 (CSP) | 1 | 5750 | 105 | 6795 | 0.0004957 | 1 | 0 | |
| *Antenna no. 13 (CSP) | 1 | 1545 | 112 | 10567.5 | 0.0000115 | 1 | 0 | |
| *Antenna no. 14 | 5 | 200 | 320 | 867.4 | 0.0005254 | 0.578266667 | 0.01 | |
| *Antenna no. 15 | 5 | 200 | 320 | 867.5 | 0.0005303 | 0.578333333 | 0.01 | |
| *Antenna no. 18 (FBI) | 1 | 473 | 100 | 453.625 | 0.0023223 | 0.302416667 | 0.08 | |
| *Antenna no. 31 (CTT) | 1 | 10 | 100 | 406 | 0.0000562 | 0.270666667 | 0 | |
| *Eversource | 4 | 124 | 145 | 217 | 0.009232006 | 0.2 | 0.46 | |
| *AT&T | 2 | 414 | 200 | 850 | 0.00791172 | 0.566666667 | 0.001396186 | |
| *AT&T | 2 | 656 | 200 | 1900 | 0.012536445 | 1 | 0.001253644 | |
| *AT&T | 2 | 826 | 200 | 700 | 0.0158 | 0.4667 | 0.34% | |
| *AT&T | 4 | 1250 | 200 | 1900 | 0.0478 | 1.0000 | 0.48% | |
| VZW 700 | 4 | 634 | 220 | 751 | 0.0019 | 0.5007 | 0.38% | |
| VZW CDMA | 2 | 344 | 220 | 877.26 | 0.0005 | 0.5848 | 0.09% | |
| VZW Cellular | 4 | 725 | 220 | 874 | 0.0022 | 0.5827 | 0.37% | |
| VZW PCS | 4 | 1593 | 220 | 1975 | 0.0047 | 1.0000 | 0.47% | |
| VZW AWS | 4 | 1633 | 220 | 2120 | 0.0049 | 1.0000 | 0.49% | |
| VZW CBAND | 2 | 13335 | 220 | 3730.08 | 0.0198 | 1.0000 | 1.98% | |
| | | | | | | | | 68.86% |
| * Source: Siting Council | | | | | | | | |

ATTACHMENT 4



Centered on Solutions⁵⁴

Structural Analysis Report

320' Existing Lattice Tower

Verizon Antenna Installation

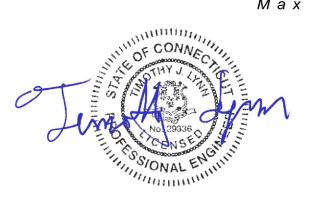
CSP Tower Ref: #50

11 Munn Road Colchester, CT

CENTEK Project No. 21007.82

Date: March 24, 2022 Rev 1: June 28, 2022

Max Stress Ratio = 95.5%



Prepared for:

Verizon Wireless 20 Alexander Drive Wallingford, CT 06492

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- PRIMARY ASSUMPTIONS USED IN THE ANALYSIS
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- TOWER CAPACITY
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- CONCLUSION

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- tnxTower FEED LINE DISTRIBUTION
- tnxTower DETAILED OUTPUT
- tnxTower INPUT/OUTPUT SUMMARY (REV.F FOR TWIST AND SWAY)
- tnxTower DETAILED OUTPUT (REV.F FOR TWIST AND SWAY)
- ANCHOR BOLT ANALYSIS
- FOUNDATION ANALYSIS

<u>Introduction</u>

The purpose of this report is to summarize the results of the non-linear, $P-\Delta$ structural analysis of the antenna installation by Verizon on the existing lattice tower located in Colchester, Connecticut.

The host tower is a 320-ft, three legged, lattice tower originally designed and manufactured by Rohn Industries. File no. 43233AE dated May 10, 2001. The tower geometry, structure member sizes and foundation information were taken from a previous structural analysis report prepared by AECOM job no. EVS-010/VZ5-217/EMP-008 60626930 dated May 21, 2020. The tower has been previously reinforced. All previous reinforcements are assumed to be installed. See Primary Assumptions Section below for detailed reinforcement reference reports.

Antenna and appurtenance inventory was taken from the aforementioned structural analysis and information provided by Verizon.

The tower consists of fifteen (15) vertical sections consisting of steel pipe legs conforming to ASTM A572-50 and steel angle/pipe lateral bracing. The vertical tower sections are connected by bolted flange plates with the diagonal and horizontal bracing to pipe legs consisting of bolted connections. The width of the tower face is 6.8-ft at the top and 40.7-ft at the bottom.

<u>Antenna and Appurtenance Summary</u>

| Antenna Type | Carrier | Mount | Antenna Centerline Elevation | Cable |
|-----------------------------------|-------------------------------|------------------------------|------------------------------------|--|
| (1) Lightning Rod | Tower (existing) | Leg Mount | 329' | N/A |
| (1) Lighted Beacon | Tower (existing) | Tower Mount | 325' | (1) 1/2" coax cable |
| (1) PD-128 Omni/Dipole Antenna | ECI-1 CSP-2 (existing) | 6' Side Arm Mount | 325' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) BA-1012 Omni Antenna | ECI-2 CSP-1 (existing) | 6' Side Arm Mount | 320' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) ANT450F6 Antenna | ECI-3 (existing) | Pipe Mounted to tower Leg | 318' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) SC479-HF1LDF Omni Antenna | ECI-4 CSP-52 (existing) | 6' Side Arm Mount | 300' | (1) 1-5/8" coax cable (AVA7-50A) |
| (1) PD-340 Dipole Antenna | ECI-5 CSP-4 (existing) | 6' Side Arm Mount | 290' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) DB-809T3 Omni Antenna | ECI-6 CSP-14 (existing) | Shared with ECI-7 Mount | 286' | (1) 1-5/8" coax cable (AVA7-50A) |

The existing and proposed loads considered in the analysis consist of the following:

| Antenna Type | Carrier | Mount | Antenna Centerline Elevation | Cable |
|--|---|--|------------------------------------|---|
| (1) (inverted) SC479- HF1LDF (D00I-E6085) Omni Antenna | ECI-7 CSP-53 (existing) | 6' Side Arm Mount @ 284' | 283' | (1) 1-5/8" coax cable (AVA7-50A) |
| (1) PD-440 Dipole Antenna | ECI-8 DEHMS-6 (existing) | 6' Side Arm Mount @ 260' | 264' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) SC479-HF1LDF Omni Antenna | ECI-10 DEP-5 (existing) | Shared with below T-Frame Mount | 251' | (1) 1-5/8" coax cable (AVA7-50A) |
| (1) PD-1142 Omni Antenna | ECI-14 DEHMS-7 (existing) | 6' Side Arm Mount | 248' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (2) (inverted) SC479- HF1LDF Omni Antennas (1) TMA Unit @ 247' (EL.) | ECI- 11,12,13 CSP-16,17 (existing) | (1)T-Arm Frame Mount @ 246' | 245' | (2) 1-5/8" coax cable (AVA7-50A) (1) 1/2" coax cable |
| (1) 531-70 Dipole Antenna | ECI-15 CSP-8 (existing) | 6' Side Arm Mount | 238' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (3) Samsung MT6407- 77A | VZW (Proposed) | See Below Mount | 232' | See Below Cables |
| (3) LNX-6512DS-VTM (6) JAHH-65B-R3B (3) B2/B66A RRHs (3) B5/B13 RRHs (3) CBC78T-DS-43-2X Diplexers (2) OVP-RC3DC-3315- PF-48 OVP Units | VZW (existing) | (3) V-frames (existing) | 232' | (6) 1 5/8" coax cables (existing) (2) HB158-1-08U8-S8J18 Fiber Optic Cable |
| (2) CCI HPA-65R-BUU-H8 (1A, 1B) (1) CCI HPA-65R-BUU-H6 (1C) (3) RRUS-11 RRH Units (3) RRUS-32 B2 RRH Units (1) DC6-48-60-0-8C Surge Arrestor | AT&T (existing) | (3) SitePro1 STK- U Mount Stiff-Arm Kits added to Existing Mounts (<i>indicated below</i>) | 200' | See Below Cables |
| (3) Powerwave 7770 Panel Antennas | AT&T (existing) | (3) T-Arm mounts with (1) Stiff-Arm connected to Tower Structure | 200' | (6) 1 5/8" coax cables (1) Fiber Optic Cable & (2) DC Cables within 2" Flex Conduit |

| Antenna Type | Carrier | Mount | Antenna Centerline Elevation | Cable |
|---|--------------------------------|---|------------------------------------|--|
| (1) 1151-3N Omni Antenna | ECI-50 NEU-32 (existing) | 4' Side Arm Mount | 179' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) DB586-Y Omni Antenna | ECI-51 NEU-48 (existing) | Shared with Below Mount | 177' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) TTA Unit | ECI-52 NEU-49 (existing) | Shared with Below Mount | 176' | (1) ½" coax cable (LDF4-50A) |
| (1) (inverted) DB586-Y Omni Antenna | ECI-53 NEU-50 (existing) | 6' Side Arm Mount @ 176' | 175' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) Small Lighted Tower Beacon Light | ECI-54 Tower (existing) | Mounted to Leg | 168' | (1) 3/8" coax cable |
| (1) Small Lighted Tower Beacon Light | ECI-55 Tower (existing) | Mounted to Leg | 165' | (1) 3/8" coax cable |
| (1) Small Lighted Tower Beacon Light | ECI-56 Tower (existing) | Mounted to Leg | 164' | (1) 3/8" coax cable |
| (1) Telewave ANT220F2 Omni Antenna | Eversource (existing) | (1) SitePro1 USF- 4U Mount @ Elevation 160' | 163' | (1) LCF78-50JA-A7 |
| (1) ANT450F6 Antenna | ECI-57 CSP (existing) | Pipe Mounted to Leg | 154' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) 6' Dish with Radome (PAR6-59W-PXA) | ECI-58 CSP (existing) | Pipe Mounted to Leg | 154' | (1) EW63 elliptical cable |
| (1) Telewave ANT220F2 Omni Antenna | Eversource (existing) | (1) SitePro1 USF- 4U Mount @ Elevation 160' | 163' | (1) LCF78-50JA-A7 |

| Antenna Type | Carrier | Mount | Antenna Centerline Elevation | Cable |
|---|---|------------------------------|------------------------------------|--|
| (1) PD-156S Yagi Antenna | ECI-60 "DEAD" Carrier (existing) | Shared with ECI- 59 Mount | 139' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) DB-212 Dipole Antenna | ECI-59 NEU-33 (existing) | 4' Side Arm Mount | 139' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) 3' Ice Shield (for ECI- 61 Dish) | ECI-61 CSP (existing) | Pipe Mounted to Leg | 117' | N/A |
| (1) Ice Shield (for ECI-63 Dish) | ECI-63 CSP (existing) | Pipe Mounted to Leg | 115' | N/A |
| (1) 3' Dish with Radome | ECI-61 CSP-13 (existing) | Pipe Mount to Leg | 112' | (1) EW90 coax cable |
| (1) 8' "Drum" Dish Antenna w/ Shroud | ECI-63 CSP (existing) | Pipe mounted to Leg | 107' | (1) EW63 Elliptical Cable |
| (1) PD-458 Omni Antenna | ECI-62 CTT-18 (existing) | 4' Side Arm Mount | 106' | (1) 7/8" coax cable (LCF78-50JA-A7) |
| (1) PD-688 Yagi Antenna | ECI-66 FBI-31 (existing) | Pipe Mount to Leg | 94' | (1) 7/8" coax cable (LCF78-50JA-A7) |

Primary Assumptions Used in the Analysis

- The tower structure's theoretical capacity not including any assessment of the condition of the tower.
- The tower carries the horizontal and vertical loads due to the weight of antennas, ice load and wind.
- Tower is properly installed and maintained.
- Tower is in plumb condition.
- Tower loading for antennas and mounts as listed in this report.
- All bolts are appropriately tightened providing the necessary connection continuity.
- All welds are fabricated with ER-70S-6 electrodes.
- All members are assumed to be as specified in the original tower design documents.
- All members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
- All member protective coatings are in good condition.
- All tower members were properly designed, detailed, fabricated, installed and have been properly maintained since erection.
- Any deviation from the analyzed antenna loading will require a new analysis for verification of structural adequacy.
- All coax cables should be routed as specified in section 3 of this report.
- All previous reinforcements per the below listed structural analysis and modification reports are assumed to be installed.
 - Structural report prepared by AECOM Corp for Verizon project no. VZ5-183 / 36917452 dated 8/6/15.
 - Structural report prepared by AECOM Corp for AT&T project no. SAI-095 / 60529362 dated 2/6/17.
- The tower geometry, structure member sizes and foundation information were taken from a previous structural analysis report prepared by AECOM job no. EVS-010/VZ5-217/EMP-008 60626930 dated May 21, 2020.
- The Verizon antenna mount information was taken from the mount analysis report prepared by Maser Consulting job no. 21777749A dated July 2, 2021

<u>Analysis</u>

The existing tower was analyzed using a comprehensive computer program entitled tnxTower. The program analyzes the tower, considering the worst case loading condition. The tower is considered as loaded by concentric forces along the tower, and the model assumes that the tower members are subjected to bending, axial, and shear forces.

The existing tower was analyzed for the controlling basic wind speed with no ice and the applicable wind and ice combination to determine stresses in members as per guidelines of TIA-222-H entitled "Structural Standard for Antenna Support Structures, Antennas and Small Wind Turbine Support Structures", the American Institute of Steel Construction (AISC) and the Manual of Steel Construction; Load and Resistance Factor Design (LRFD).

The controlling wind speed is determined by evaluating the local available wind speed data as provided in Appendix N of the CSBC¹ and the wind speed data available in the TIA-222-H Standard.

<u>Tower Loading</u>

Tower loading was determined by the basic wind speed as applied to projected surface areas with modification factors per TIA-222-H, gravity loads of the tower structure and its components, and the application of 1.0" radial ice on the tower structure and its components.

| Load Cases: | Load Case 1; 140 mph (Risk Cat III) wind speed w/ no ice plus gravity load – used in calculation of tower stresses and rotation. | [Appendix N of the 2018 CT Building Code] |
|-------------|---|--|
| | Load Case 2; 50 mph wind speed w/ 1.00" radial ice plus gravity load – used in calculation of tower stresses. | [Annex B of TIA-222-H] |
| | Load Case 3; 90 mph wind speed w/ 0.5" radial ice plus gravity load – used in calculation of tower twist and sway. | [TIA-222-F used for calculation of tower twist and sway per the requirements of the CSP] |

¹ The 2015 International Building Code as amended by the 2018 Connecticut State Building Code (CSBC).

<u>Tower Capacity</u>

| Tower Section | Elevation | Stress Ratio (percentage of capacity) | Result |
|------------------|---------------|---|--------|
| Leg (T16) | 30.0' - 60.0' | 65.1% | PASS |
| Diagonal (T15) | 60.0' - 80.0' | 95.5% | PASS |
| Horizontal (T16) | 30.0' - 60.0' | 91.6% | PASS |

Calculated stresses were found to be within allowable limits.

• The tower combined deflection was found to be within allowable limits.

| Deflection Criteria | Proposed (degrees) | Allowable (degrees) | Result |
|---------------------|-----------------------|------------------------|--------|
| Sway (Tilt) | 0.3591 | n/a | n/a |
| Twist | 0.2117 | n/a | n/a |
| Combined | 0.5708 | 0.75 | PASS |

TIA-222-F standard used for calculation of tower twist and sway per the requirements of the CSP.

NOTE: Per the Department of Energy Services and Public Protection (DESPP) / Connecticut State Police (CSP) directive, required twist and sway for this location is permitted to be measured from the highest service dishes @ 154-ft AGL. The DESPP / CSP reserves the right to update the requirements of tower Twist and Sway for this site and shall be coordinated with the Department prior to any antenna equipment installation.

Foundation and Anchors

The existing foundation consists of three (3) 7.5-ft diameter x 35.5-ft long reinforced concrete caissons. The base of the tower is connected to the foundation by means of (24) 1.00" \emptyset anchor bolts per leg embedded into the concrete foundation structure.

 The tower reactions developed from the governing Load Case were used in the verification of the foundation and anchor bolts:

| Load Effect | Proposed Tower Reactions |
|-----------------|-----------------------------|
| Leg Shear | 130 kips |
| Leg Compression | 945 kips |
| Leg Tension | 743 kips |
| Base Moment | 31,307 ft-kips |
| Base Shear | 220 kips |

• The anchor bolts were found to be within allowable limits.

| Tower Section | Component | Stress Ratio (percentage of capacity) | Result |
|---------------|--------------------------------------|--|--------|
| Anchor Bolts | Combined Compression and Shear | 53.5% | PASS |

• The foundation was found to be within allowable limits.

| Foundation | Design Limit | (percentage of capacity) | Result |
|------------------|-----------------|-----------------------------|--------|
| (3) Reinforced | Uplift | 82% | PASS |
| Concrete Caisson | Bearing | 86% | PASS |

<u>Conclusion</u>

This analysis shows that the subject tower **<u>is adequate</u>** to support the proposed antenna configuration.

The analysis is based, in part, on the information provided to this office by Verizon and the CSP. If the existing conditions are different than the information in this report, Centek Engineering, Inc. must be contacted for resolution of any potential issues.

Please feel free to call with any questions or comments.

Respectfully Submitted by:

Timothy J. Lynn, PE Structural Engineer



<u>Standard Conditions for Furnishing of</u> <u>Professional Engineering Services on</u> <u>Existing Structures</u>

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

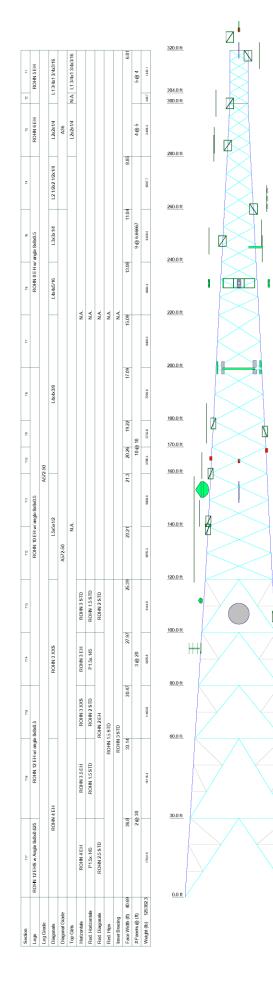
- Information supplied by the client regarding the structure itself, its foundations, the soil
 conditions, the antenna and feed line loading on the structure and its components, or
 other relevant information.
- Information from the field and/or drawings in the possession of Centek Engineering, Inc. or generated by field inspections or measurements of the structure.
- It is the responsibility of the client to ensure that the information provided to Centek Engineering, Inc. and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an uncorroded condition and have not deteriorated. It is therefore assumed that its capacity has not significantly changed from the "as new" condition.
- All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest revision of ANSI/ASCE10 & ANSI/EIA-222
- All services performed, results obtained, and recommendations made are in accordance with generally accepted engineering principles and practices. Centek Engineering, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

<u>GENERAL DESCRIPTION OF STRUCTURAL</u> <u>ANALYSIS PROGRAM</u>

tnxTower, is an integrated structural analysis and design software package for Designed specifically for the telecommunications industry, tnxTower, formerly RISA Tower, automates much of the tower analysis and design required by the TIA/EIA 222 Standard.

tnxTower Features:

- tnxTower can analyze and design 3- and 4-sided guyed towers, 3- and 4-sided selfsupporting towers and either round or tapered ground mounted poles with or without guys.
- The program analyzes towers using the TIA-222-G (2005) standard or any of the previous TIA/EIA standards back to RS-222 (1959). Steel design is checked using the AISC ASD 9th Edition or the AISC LRFD specifications.
- Linear and non-linear (P-delta) analyses can be used in determining displacements and forces in the structure. Wind pressures and forces are automatically calculated.
- Extensive graphics plots include material take-off, shear-moment, leg compression, displacement, twist, feed line, guy anchor and stress plots.
- tnxTower contains unique features such as True Cable behavior, hog rod take-up, foundation stiffness and much more.



 \triangle

| TYPE | ELEVATION | TYPE | ELEVATION |
|--|-----------|---|------------|
| Lightning Rod 5/8x4' (Lightning Rod) | 329 | CBC78T-DS-43-2X Diplexer (Verizon) | 232 |
| Dual Lights (Beacon) | 327 | CBC78T-DS-43-2X Diplexer (Verizon) | 232 |
| PD128-1 (ECI-1) | 325 | PIROD 12 Lightweight T-Frame (ATI) | 200 |
| 6' Side Mount Standoff (ECI-1) | 325 | PiROD 12' Lightweight T-Frame (ATT) | 200 |
| BA1012-0 (ECI-2) | 320 | PiROD 12 Lightweight T-Frame (ATT) | 200 |
| 6' Side Mount Standoff (ECI-2) | 320 | 7770.00 (ATL) | 200 |
| ANT 450F6 (ECI-3) | 318 | HPA-65R-BUU-H8 Panel (ATT) | 200 |
| 4%4" Pipe Mount (ECI-3) | 318 | RRUS-32 (ATI) | 200 |
| SC479-HF1LDF (ECI-4) | 300 | RRUS-11 (ATL) | 200 |
| 6' Side Mount Standoff (ECI-4) | 300 | 7770.00 (ATI) | 200 |
| PD340-1 (ECI-5) | 290 | HPA-65R-BUU-H8 Panel (ATT) | 200 |
| 6' Side Mount Standoff (ECI-5) | 290 | RRUS-32 (ATI) | 200 |
| DB809T3E-XC (ECI-6) | 286 | RRUS-11 (ATI) | 200 |
| 6' Side Mount Standoff (ECI-7) | 284 | 7770.00 (ATI) | 200 |
| SC479-HF1LDF(D00I-E6085) (Inverted) (ECI-7) | 283 | HPA-65R-BUU-H6 Panel (ATT) | 200 |
| PD440-2 (ECI-8) | 264 | RRUS-32 (ATI) | 200 |
| 6' Side Mount Standoff (ECI-8) | 260 | RRUS-11 (ATI) | 200 |
| SC479-HF1LDF (ECI-10) | 251 | DC6-48-60-0-8C Squid / Surge Arrestor (ATI) | 200 |
| PD1142-1 (ECI-14) | 248 | STK-U Stiffener Side Arm Attachment (ATI) | 200 |
| 6' Side Mount Standoff (ECI-14) | 248 | STK-U Stiffener Side Arm Attachment (AT1) | 200 |
| 430-94C-09168-M-11048 TTA (ECI-11) | 247 | STK-U Stiffener Side Arm Attachment (ATT) | 200 |
| Sabre T-Boom (1) (ECI-10,11,12,13) | 246 | STK-U Stiffener Side Arm Attachment (ATI) | 200 |
| SC479-HF1LDF(D00I-E6085) (Inverted) (ECI-13) | 245 | STK-U Stiffener Side Arm Attachment (ATT) | 200 |
| SC479-HF1LDF(D00I-E6085) (Inverted) (ECI-12) | 245 | STK-U Stiffener Side Arm Attachment (ATT) | 200 |
| 6' Side Mount Standoff (ECI-15) | 238 | Pirod 4' Side Mount Standoff (1) (ECI-50) | 179 |
| 531-70HD Exposed Dipole Antenna (ECI-15) | 238 | 1151-3 (ECI-50) | 179 |
| Valmont VFA-10-U V-Frame (Verizon) | 232 | DB586-Y (ECI-51) | 177 |
| Valmont VFA-10-U V-Frame (Verizon) | 232 | 430-94C-09168-M-11048 TTA (ECI-52) | 176 |
| Valmont VFA-10-U V-Frame (Verizon) | 232 | Pirod 4 Side Mount Standoff (1) (ECI-53,52,51) | 176 |
| JAHH-65B-R3B Panel Antenna (Verizon-AWS) | 232 | DB586-Y (inverted) (ECI-53) | 175 |
| JAHH-65B-R3B Panel Antenna (Verizon-PCS) | 232 | L-810 Obstruction Lighting (1) (ECI-54) | 168 |
| LNX-6512DS-VTM (Verizon-850) | 232 | L-810 Obstruction Lighting (1) (ECI-55) | 165 |
| MT6407-77A (Verizon - Proposed) | 232 | L-810 Obstruction Lighting (1) (ECI-56) | 164 |
| BSAMNT-SBS-2-2 (JAHH Antenna Bracket (for 2)) (Verizon-PCS/AWS) | 232 | Telewave ANT220F2 - Omni Antenna (Eversource) Sitepro1 USF-4U Mount Assembly (Ca = 1.4 | 163 160 |
| B2/B66A RRH (Verizon RRH) | 232 | assumed) (Eversource) | |
| B5/B13 RRH (Verizon RRH) | 232 | 5'3"x4" Pipe Mount (ECI-58a (Dish Support)) | 154 |
| DB-B1-6C-12AB-0Z / DC-3315-PF-48 Dist. Box | 232 | Commscope PAR6-59W-PXA/A (ECI-58) | 154 |
| (Verizon) | | ANT450F6 (ECI-57) | 153 |
| JAHH-65B-R3B Panel Antenna (Verizon-AWS) | 232 | 5'3"x4" Pipe Mount (ECI-57) | 153 |
| JAHH-65B-R3B Panel Antenna (Verizon-PCS) | 232 | Telewave ANT220F2 - Omni Antenna (Eversource) | 145 |
| LNX-6512DS-VTM (Verizon-850) MT6407-77A (Verizon - Proposed) | 232 | Sitepro1 USF-4U Mount Assembly (Ca = 1.4 assumed) (Eversource) | 142 |
| BSAMNT-SBS-2-2 (JAHH Antenna Bracket (for 2)) | 232 | DB212-1 (ECI-59) | 139 |
| (Verizon-PCS/AWS) | | PD1568 (ECI-60) | 139 |
| B2/B66A RRH (Verizon RRH) | 232 | 4" Side Mount Standoff (ECI-60_59) | 139 |
| B5/B13 RRH (Verizon RRH) DB-B1-6C-12AB-0Z / DC-3315-PF-48 Dist. Box | 232 | 3' Wide Ice Shield (for Dish Antennas) (Assume Ca=2.0) (ECI-61a) | 117 |
| (Verizon) JAHH-65B-R3B Panel Antenna (Verizon-AWS) | 232 | 8' Wide Ice Shield (for Dish Antennas) (Assume Ca=2.0) (ECI-63a (Dish Ice Shield)) | 115 |
| JAHH-65B-R3B Panel Antenna (Verizon-AWS) JAHH-65B-R3B Panel Antenna (Verizon-PCS) | 232 | 5'3'x4" Pipe Mount (ECI-61a (Dish Support)) | 112 |
| LNX-6512DS-VTM (Verizon-850) | 232 | Andrew 2' wRadome (ECI-61) | 112 |
| MT6407-77A (Verizon - Proposed) | 232 | PA8-65 (ECI-63) | 107 |
| M16407-77A (venzon - Proposed) BSAMNT-SBS-2-2 (JAHH Antenna Bracket (for 2)) | 232 | 5'3"x4" Pipe Mount (ECI-63 (Dish Support)) | 107 |
| (Verizon-PCS/AWS) | | Pirod 4' Side Mount Standoff (1) (ECI-62) | 107 |
| B2/B66A RRH (Verizon RRH) | 232 | PD458 (ECI-62) | 106 |
| B5/B13 RRH (Verizon RRH) | 232 | PD688S-4 (ECI-66) | 94 |
| CBC78T-DS-43-2X Diplexer (Verizon) | 232 | 4%4" Pipe Mount (ECI-66) | 94 |

GRADE Fy A572-50 50 ksi Fu GRADE Fy 65 ksi A36 36 ksi Fu 58 ksi

Tower designed for Exposure C to the TIA-222-H Standard.
 Tower designed for a 140 mph basic wind in accordance with the TIA-222-H Standard.
 Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
 Deflections are based upon a 60 mph wind.
 Topographic Category III.
 Topographic Category With Crest Height of 66.50 ft
 Poleta Displacement Effects are not applicable to this tower for this case (TIA-222-H Section 3.5)
 TOWER RATING: 95.5%

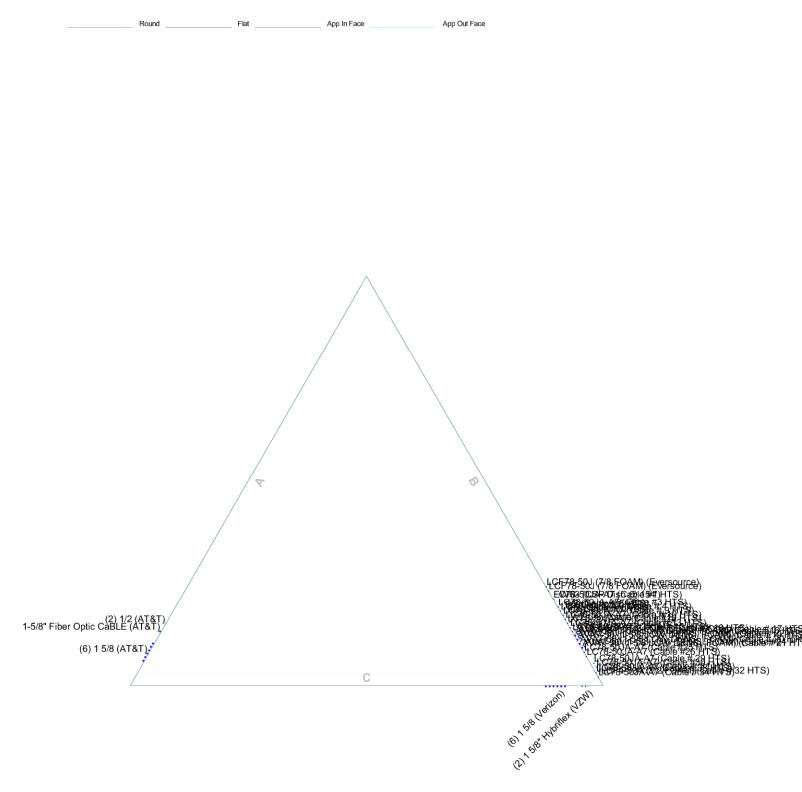
ALL REACTIONS ARE FACTORED MAX. CORNER REACTIONS AT BASE: DOWN: 944805 lb SHEAR: 129483 lb UPLIFT: -742777 lb SHEAR: 106558 lb AXIAL 324845 lb SHEAR 45988 lb_ MOMENT 6810 kip-ft .1 TORQUE 151 kip-ft 50 mph WIND - 1.0000 in ICE

| 50 mph WIND - 1.0000 in ICE |
|---|
| AXIAL 169110 lb |
| 16911016 |
| SHEAR 219837 lb MOMENT 31307 kip-ft |
| TODOUS 070 Ha |

| TORQUE | 379 Kip-i | 1 |
|-------------|-----------|------|
| REACTIONS - | 140 mph | WIND |

| Centek Engineering Inc. | ^{Job:} 21007.82 - Colches | ter | |
|-------------------------|--|--|-------------|
| 63-2 North Branford Rd. | Project: 320-ft Lattice Tower (0 | CSP #50) | |
| Branford, CT 06405 | Client: Verizon | Drawn by: TJL | App'd: |
| Phone: (203) 488-0580 | Code: TIA-222-H | Date: 03/24/22 | Scale: NTS |
| | Path: June 1070 Will Grow Chill Instanting of Dar | watering and held or in 2003 15 124 EM, aCP Update | Dwg No. E-1 |

Feed Line Plan

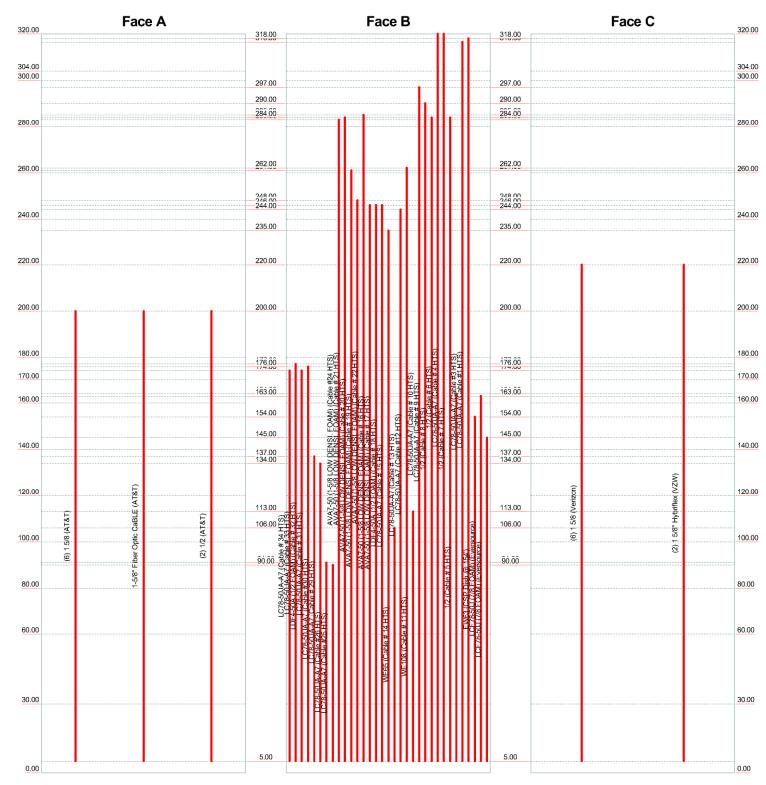


| Centek Engineering Inc. | ^{Job:} 21007.82 - Colch | ester | |
|-------------------------|---|---|-------------|
| 63-2 North Branford Rd. | Project: 320-ft Lattice Towe | r (CSP #50) | |
| | ^{Client:} Verizon | Drawn by: TJL | App'd: |
| Phone: (203) 488-0580 | ^{Code:} TIA-222-H | Date: 03/24/22 | Scale: NTS |
| | Path: JUobe2100700 WVS2_Coldhadar CT105_Structure/Bedu | p Documentation TratowarMod Tostion 20200515_VZWEMP_wG8P Update | Dwg No. E-7 |

Feed Line Distribution Chart

0' - 320' App In Face _____ App Out Face

Truss Leg



| Centek Engineering Inc. | ^{Job:} 21007.82 - Colches | ter | |
|-------------------------|--|---|-------------|
| 63-2 North Branford Rd. | Project: 320-ft Lattice Tower (CSP #50) | | |
| | Client: Verizon | Drawn by: TJL | App'd: |
| Phone: (203) 488-0580 | Code: TIA-222-H | Date: 03/24/22 | Scale: NTS |
| FAX: (203) 488-8587 | Path: J.J.obid2100700 WVS2_Coldwater CT105_Structural/Bedup Docum | entation\TrutowarMod floation 20200615_VZWEMP_wG8P Update e | Dwg No. E-7 |

Elevation (ft)

Round

Flat

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 320.00 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 6.81 ft at the top and 40.69 ft at the base.

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

The following design criteria apply:

Tower base elevation above sea level: 0.00 ft.

Basic wind speed of 140 mph.

Risk Category III.

Exposure Category C.

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

Topographic Category: 3.

Crest Height: 66.50 ft.

Nominal ice thickness of 1.0000 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.

P-Delta Displacement Effects are not applicable to this tower for this case (TIA-222-H Section 3.5).

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

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

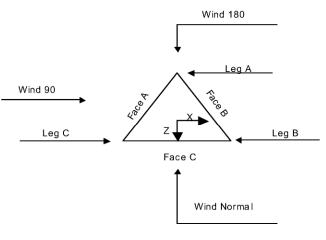
Distribute Leg Loads As Uniform

- Assume Legs Pinned
- $\sqrt{}$ Assume Rigid Index Plate $\sqrt{}$ Use Clear Spans For Wind Area
- $\sqrt{\text{Use Clear Spans For Wind Are}}$
- Retension 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

- Use ASCE 10 X-Brace Ly Rules
- √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA
- $\sqrt{\text{SR Leg Bolts Resist Compression}}$
- √ 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 Poles

Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known

| tnxTower | Job 21007.82 - Colchester | Page 2 of 96 |
|--|---|---------------------------|
| Centek Engineering Inc. 63-2 North Branford Rd. | Project 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client Verizon | Designed by TJL |



<u>Triangular Tower</u>

Tower Section Geometry

| Tower | Tower | Assembly | Description | Section | Number | Section |
|------------|---------------|----------|-------------|---------|----------|---------|
| Section | Elevation | Database | | Width | of | Length |
| | | | | | Sections | _ |
| | ft | | | ft | | ft |
| T1 | 320.00-304.00 | | | 6.81 | 1 | 16.00 |
| T2 | 304.00-300.00 | | | 6.81 | 1 | 4.00 |
| Т3 | 300.00-280.00 | | | 6.81 | 1 | 20.00 |
| T4 | 280.00-260.00 | | | 8.85 | 1 | 20.00 |
| T5 | 260.00-240.00 | | | 11.04 | 1 | 20.00 |
| T6 | 240.00-220.00 | | | 13.08 | 1 | 20.00 |
| T 7 | 220.00-200.00 | | | 15.09 | 1 | 20.00 |
| T8 | 200.00-180.00 | | | 17.09 | 1 | 20.00 |
| Т9 | 180.00-170.00 | | | 19.22 | 1 | 10.00 |
| T10 | 170.00-160.00 | | | 20.26 | 1 | 10.00 |
| T11 | 160.00-140.00 | | | 21.30 | 1 | 20.00 |
| T12 | 140.00-120.00 | | | 23.21 | 1 | 20.00 |
| T13 | 120.00-100.00 | | | 25.39 | 1 | 20.00 |
| T14 | 100.00-80.00 | | | 27.97 | 1 | 20.00 |
| T15 | 80.00-60.00 | | | 30.47 | 1 | 20.00 |
| T16 | 60.00-30.00 | | | 33.14 | 1 | 30.00 |
| T17 | 30.00-0.00 | | | 36.80 | 1 | 30.00 |

| Tower Section Geometry (cont'd) |
|---------------------------------|
|---------------------------------|

tn:

Centek 2 63-2 N Bran Phone FAX:

| xTower | Job 21007.82 - Colchester | Page 3 of 96 |
|---|---|---------------------------|
| k Engineering Inc. North Branford Rd. | Project 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| anford, CT 06405 me: (203) 488-0580 X: (203) 488-8587 | Client Verizon | Designed by TJL |

| Tower | Tower | Diagonal | Bracing | Has | Has | Top Girt | Bottom Girl |
|---------|---------------|----------|---------|---------|-------------|----------|-------------|
| Section | Elevation | Spacing | Type | K Brace | Horizontals | Ôffset | Offset |
| | | | | End | | | |
| | ft | ft | | Panels | | in | in |
| T1 | 320.00-304.00 | 4.00 | X Brace | No | No | 0.0000 | 0.0000 |
| T2 | 304.00-300.00 | 4.00 | X Brace | No | No | 0.0000 | 0.0000 |
| Т3 | 300.00-280.00 | 5.00 | X Brace | No | No | 0.0000 | 0.0000 |
| T4 | 280.00-260.00 | 6.67 | X Brace | No | No | 0.0000 | 0.0000 |
| T5 | 260.00-240.00 | 6.67 | X Brace | No | No | 0.0000 | 0.0000 |
| T6 | 240.00-220.00 | 6.67 | X Brace | No | No | 0.0000 | 0.0000 |
| T7 | 220.00-200.00 | 10.00 | X Brace | No | No | 0.0000 | 0.0000 |
| T8 | 200.00-180.00 | 10.00 | X Brace | No | No | 0.0000 | 0.0000 |
| Т9 | 180.00-170.00 | 10.00 | X Brace | No | No | 0.0000 | 0.0000 |
| T10 | 170.00-160.00 | 10.00 | X Brace | No | No | 0.0000 | 0.0000 |
| T11 | 160.00-140.00 | 10.00 | X Brace | No | No | 0.0000 | 0.0000 |
| T12 | 140.00-120.00 | 10.00 | X Brace | No | No | 0.0000 | 0.0000 |
| T13 | 120.00-100.00 | 20.00 | K1 Down | No | Yes | 0.0000 | 0.0000 |
| T14 | 100.00-80.00 | 20.00 | K1 Down | No | Yes | 0.0000 | 0.0000 |
| T15 | 80.00-60.00 | 20.00 | K1 Down | No | Yes | 0.0000 | 0.0000 |
| T16 | 60.00-30.00 | 30.00 | K2 Down | No | Yes | 0.0000 | 0.0000 |
| T17 | 30.00-0.00 | 30.00 | K2 Down | No | Yes | 0.0000 | 0.0000 |

| Tower | Leg | Leg | Leg | Diagonal | Diagonal | Diagonal |
|------------------------------|-----------------|----------------------------|----------|--------------|---------------------|----------|
| Elevation ft | Туре | Size | Grade | Type | Size | Grade |
| <u>л</u> Г1 320.00-304.00 | Pipe | ROHN 5 EH | A572-50 | Equal Angle | L1 3/4x1 3/4x3/16 | A36 |
| 11 520.00 50 1.00 | ripe | Rom () En | (50 ksi) | Equal Thiste | EI 5, IAI 5, IA5/10 | (36 ksi) |
| Г2 304.00-300.00 | Pipe | ROHN 5 EH | A572-50 | Equal Angle | L1 3/4x1 3/4x3/16 | A36 |
| 2 50 1.00 500.00 | 1 ipe | itolii () Eli | (50 ksi) | Equal Thighe | | (36 ksi) |
| ГЗ 300.00-280.00 | Pipe | ROHN 6 EH | A572-50 | Equal Angle | L2x2x1/4 | A36 |
| | - ·F · | | (50 ksi) | -1 | | (36 ksi) |
| Г4 280.00-260.00 | Arbitrary Shape | ROHN 8 EH w/ angle 8x8x0.5 | A572-50 | Equal Angle | L2 1/2x2 1/2x1/4 | A36 |
| | | | (50 ksi) | -1 | | (36 ksi) |
| F5 260.00-240.00 | Arbitrary Shape | ROHN 8 EH w/ angle 8x8x0.5 | À572-50 | Equal Angle | L3x3x1/4 | A572-50 |
| | 5 1 | 5 | (50 ksi) | 1 0 | | (50 ksi) |
| Г6 240.00-220.00 | Arbitrary Shape | ROHN 8 EH w/ angle 8x8x0.5 | À572-50 | Equal Angle | L4x4x5/16 | À572-50 |
| | 2 1 | C | (50 ksi) | 1 0 | | (50 ksi) |
| Г7 220.00-200.00 | Arbitrary Shape | ROHN 8 EH w/ angle 8x8x0.5 | A572-50 | Equal Angle | L4x4x3/8 | A572-50 |
| | 5 1 | 0 | (50 ksi) | 1 0 | | (50 ksi) |
| F8 200.00-180.00 | Arbitrary Shape | ROHN 10 EH w/ angle | À572-50 | Equal Angle | L4x4x3/8 | À572-50 |
| | <i>2</i> 1 | 8x8x0.5 | (50 ksi) | 1 0 | | (50 ksi) |
| Г9 180.00-170.00 | Arbitrary Shape | ROHN 10 EH w/ angle | A572-50 | Equal Angle | L4x4x3/8 | A572-50 |
| | | 8x8x0.5 | (50 ksi) | | | (50 ksi) |
| T10 | Arbitrary Shape | ROHN 10 EH w/ angle | A572-50 | Equal Angle | L4x4x3/8 | A572-50 |
| 170.00-160.00 | • | 8x8x0.5 | (50 ksi) | | | (50 ksi) |
| T11 | Arbitrary Shape | ROHN 10 EH w/ angle | A572-50 | Equal Angle | L5x5x1/2 | A572-50 |
| 160.00-140.00 | | 8x8x0.5 | (50 ksi) | | | (50 ksi) |
| T12 | Arbitrary Shape | ROHN 10 EH w/ angle | A572-50 | Equal Angle | L5x5x1/2 | A572-50 |
| 140.00-120.00 | • • | 8x8x0.5 | (50 ksi) | | | (50 ksi) |
| T13 | Arbitrary Shape | ROHN 10 EH w/ angle | A572-50 | Pipe | ROHN 3 XXS | A572-50 |
| 120.00-100.00 | | 8x8x0.5 | (50 ksi) | | | (50 ksi) |
| Г14 100.00-80.00 | Arbitrary Shape | ROHN 10 EH w/ angle | A572-50 | Pipe | ROHN 3 XXS | A572-50 |
| | | 8x8x0.5 | (50 ksi) | | | (50 ksi) |
| T15 80.00-60.00 | Arbitrary Shape | ROHN 12 EH w/ angle | A572-50 | Pipe | ROHN 3 XXS | A572-50 |
| | | 8x8x0.5 | (50 ksi) | | | (50 ksi) |
| T16 60.00-30.00 | Arbitrary Shape | ROHN 12 EH w/ angle | A572-50 | Pipe | ROHN 4 EH | A572-50 |
| | | 8x8x0.5 | (50 ksi) | | | (50 ksi) |
| T17 30.00-0.00 | Arbitrary Shape | ROHN 12 EHS w Angle | A572-50 | Pipe | ROHN 4 EH | A572-50 |

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| tnxTower | | 21007.82 - Colchester | 4 of 96 |
| Centek Engineering Inc. | Project | | Date |
| 63-2 North Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Tower Elevation ft | Leg Type | Leg Size | Leg Grade | Diagonal Type | Diagonal Size | Diagonal Grade |
|--------------------------|-------------|-------------|--------------|------------------|------------------|-------------------|
| | | 8x8x0.625 | (50 ksi) | | | (50 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 320.00-304.00 | Equal Angle | L1 3/4x1 3/4x3/16 | A36 (36 ksi) | Solid Round | | A36 (36 ksi) |
| T3 300.00-280.00 | Equal Angle | L2x2x1/4 | A36 (36 ksi) | Solid Round | | A36 (36 ksi) |

| Tower Section Geometry (cont'd) | | | | | | | |
|---------------------------------|--------------|----------|----------|----------|------------|-------------|------------|
| Tower | No. | Mid Girt | Mid Girt | Mid Girt | Horizontal | Horizontal | Horizontal |
| Elevation | of | Туре | Size | Grade | Type | Size | Grade |
| Δ | Mid Girts | | | | | | |
| <u> </u> | None | Flat Bar | | A36 | Pipe | ROHN 3 STD | A572-50 |
| 120.00-100.00 | None | Flat Dal | | (36 ksi) | Tipe | KOIIN 5 51D | (50 ksi) |
| Г14 100.00-80.00 | None | Flat Bar | | A36 | Pipe | ROHN 3 EH | A572-50 |
| | | | | (36 ksi) | | | (50 ksi) |
| T15 80.00-60.00 | None | Flat Bar | | A36 | Pipe | ROHN 3 XXS | A572-50 |
| | | | | (36 ksi) | | | (50 ksi) |
| T16 60.00-30.00 | None | Flat Bar | | A36 | Pipe | ROHN 3.5 EH | A572-50 |
| | | | | (36 ksi) | | | (50 ksi) |
| T17 30.00-0.00 | None | Flat Bar | | A36 | Pipe | ROHN 4 EH | A572-50 |
| | | | | (36 ksi) | | | (50 ksi) |

| Tower | Secondary | Secondary Horizontal | Secondary | Inner Bracing | Inner Bracing Size | Inner Bracing |
|------------------|-----------------|----------------------|---------------------|---------------|--------------------|---------------|
| Elevation | Horizontal Type | Size | Horizontal Grade | Туре | | Grade |
| ft | | | | | | |
| T13 | Pipe | | A572-50 | Pipe | ROHN 3 STD | A572-50 |
| 120.00-100.00 | - | | (50 ksi) | - | | (50 ksi) |
| T14 100.00-80.00 | Pipe | | A572-50 | Pipe | ROHN 3 STD | A572-50 |
| | | | (50 ksi) | | | (50 ksi) |
| T15 80.00-60.00 | Pipe | | A572-50 | Pipe | ROHN 3 STD | A572-50 |
| | | | (50 ksi) | • | | (50 ksi) |
| T16 60.00-30.00 | Pipe | | A572-50 | Pipe | ROHN 3 STD | A572-50 |
| | • | | (50 ksi) | • | | (50 ksi) |
| T17 30.00-0.00 | Pipe | | A572-50 | Pipe | ROHN 3 STD | A572-50 |
| | | | (50 ksi) | • | | (50 ksi) |

tnxTower

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| | 21007.82 - Colchester | 5 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | | Designed by |
| | Verizon | TJL |
| | | |

Tower Section Geometry (cont'd)

| Tower | Redundant | | Redundant | Redundant | K Factor |
|---------------|-----------|------------------|-----------|--------------|----------|
| Elevation | Bracing | | Туре | Size | |
| | Grade | | | | |
| ft | | | | | |
| T13 | A572-50 | Horizontal (1) | Pipe | ROHN 1.5 STD | 1 |
| 120.00-100.00 | (50 ksi) | Diagonal (1) | Pipe | ROHN 2 STD | 1 |
| | | Hip (1) | Pipe | ROHN 1.5 STD | 1 |
| | | Hip Diagonal (1) | Pipe | ROHN 2.5 STD | 1 |
| T14 | A572-50 | Horizontal (1) | Pipe | P1.5x.145 | 1 |
| 100.00-80.00 | (50 ksi) | Diagonal (1) | Pipe | ROHN 2 EH | 1 |
| | | Hip (1) | Pipe | ROHN 1.5 STD | 1 |
| | | Hip Diagonal (1) | Pipe | ROHN 2.5 STD | 1 |
| T15 | A572-50 | Horizontal (1) | Pipe | ROHN 2 STD | 1 |
| 80.00-60.00 | (50 ksi) | Diagonal (1) | Pipe | ROHN 2 EH | 1 |
| | | Hip (1) | Pipe | ROHN 1.5 STD | 1 |
| | | Hip Diagonal (1) | Pipe | ROHN 3 STD | 1 |
| T16 | A572-50 | Horizontal (1) | Pipe | ROHN 1.5 STD | 1 |
| 60.00-30.00 | (50 ksi) | Horizontal (2) | | ROHN 2 XXS | |
| | | Diagonal (1) | Pipe | ROHN 2 EH | 1 |
| | | Diagonal (2) | | ROHN 2.5 STD | |
| | | Hip (1) | Pipe | ROHN 1.5 STD | 1 |
| | | Hip (2) | | ROHN 2 STD | |
| | | Hip Diagonal (1) | Pipe | ROHN 2 STD | 1 |
| | | Hip Diagonal (2) | | ROHN 2 STD | 1 |
| T17 | A572-50 | Horizontal (1) | Pipe | P1.5x.145 | 1 |
| 30.00-0.00 | (50 ksi) | Horizontal (2) | | ROHN 2.5 EH | |
| | | Diagonal (1) | Pipe | ROHN 2.5 STD | 1 |
| | | Diagonal (2) | | ROHN 2.5 STD | |
| | | Hip (1) | Pipe | ROHN 1.5 STD | 1 |
| | | Hip(2) | - | ROHN 2 STD | |
| | | Hip Diagonal (1) | Pipe | ROHN 2.5 STD | 1 |
| | | Hip Diagonal (2) | - | ROHN 2.5 STD | 1 |

| Tower | Gusset | Gusset | Gusset Grade | Adjust. Factor | Adjust. | Weight Mult. | Double Angle | | Double Angle |
|---------------|------------|-----------|--------------|----------------|---------|--------------|--------------|-------------|--------------|
| Elevation | Area | Thickness | | A_f | Factor | | Stitch Bolt | Stitch Bolt | Stitch Bolt |
| | (per face) | | | | A_r | | Spacing | Spacing | Spacing |
| | | | | | | | Diagonals | Horizontals | Redundants |
| ft | ft^2 | in | | | | | in | in | in |
| T1 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 320.00-304.00 | | | (36 ksi) | | | | | | |
| T2 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 304.00-300.00 | | | (36 ksi) | | | | | | |
| T3 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 300.00-280.00 | | | (36 ksi) | | | | | | |
| T4 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 280.00-260.00 | | | (36 ksi) | | | | | | |
| T5 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 260.00-240.00 | | | (36 ksi) | | | | | | |
| T6 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 240.00-220.00 | | | (36 ksi) | | | | | | |
| T 7 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 220.00-200.00 | | | (36 ksi) | | | | | | |
| T8 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |

tnxTower

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

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|---------|--------------------------------|---------------------------|
| | 21007.82 - Colchester | 6 of 96 |
| Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Client | Verizon | Designed by TJL |
| | | |

| Tower | Gusset | Gusset | Gusset Grade | Adjust. Factor | Adjust. | Weight Mult. | Double Angle | Double Angle | Double Angle |
|----------------|------------|-----------|--------------|----------------|---------|--------------|--------------|--------------|--------------|
| Elevation | Area | Thickness | | A_f | Factor | | Stitch Bolt | Stitch Bolt | Stitch Bolt |
| | (per face) | | | | A_r | | Spacing | Spacing | Spacing |
| | | | | | | | Diagonals | Horizontals | Redundants |
| ft | ft^2 | in | | | | | in | in | in |
| 200.00-180.00 | | | (36 ksi) | | | | | | |
| Т9 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 180.00-170.00 | | | (36 ksi) | | | | | | |
| T10 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 170.00-160.00 | | | (36 ksi) | | | | | | |
| T11 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 160.00-140.00 | | | (36 ksi) | | | | | | |
| T12 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 140.00-120.00 | | | (36 ksi) | | | | | | |
| T13 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 120.00-100.00 | | | (36 ksi) | | | | | | |
| T14 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 100.00-80.00 | | | (36 ksi) | | | | | | |
| T15 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 80.00-60.00 | | | (36 ksi) | | | | | | |
| T16 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 60.00-30.00 | | | (36 ksi) | | | | | | |
| T17 30.00-0.00 | 0.00 | 0.0000 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| | | | (36 ksi) | | | | | | |

| | | | K Factors ¹ | | | | | | | | | |
|---------------|--------|--------|------------------------|-------|-------|--------|-------|--------|--------|-------|--|--|
| Tower | Calc | Calc | Legs | Х | K | Single | Girts | Horiz. | Sec. | Inner | | |
| Elevation | K | K | | Brace | Brace | Diags | | | Horiz. | Brace | | |
| | Single | Solid | | Diags | Diags | | | | | | | |
| | Angles | Rounds | | X | X | X | X | X | X | X | | |
| ft | | | | Y | Y | Y | Y | Y | Y | Y | | |
| T1 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 320.00-304.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T2 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 304.00-300.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T3 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 300.00-280.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T4 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 280.00-260.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T5 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 260.00-240.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T6 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 240.00-220.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T7 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 220.00-200.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T8 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 200.00-180.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Т9 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 180.00-170.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T10 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 170.00-160.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T11 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 160.00-140.00 | | | _ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T12 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 140.00-120.00 | | | * | î | î | 1 | î | î | î | Î | | |
| T13 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | ĩ | 1 | | |
| 120.00-100.00 | 1.0 | 1.0 | 1 | Î | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T14 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |

| Anna Tanu an | Job | | Page |
|--|---------|--------------------------------|---------------------------|
| tnxTower | | 21007.82 - Colchester | 7 of 96 |
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| | | | | | | K Fac | ctors ¹ | | | |
|--------------|--------|--------|------|-------|-------|--------|--------------------|--------|--------|-------|
| Tower | Calc | Calc | Legs | Х | K | Single | Girts | Horiz. | Sec. | Inner |
| Elevation | K | K | | Brace | Brace | Diags | | | Horiz. | Brace |
| | Single | Solid | | Diags | Diags | | | | | |
| | Angles | Rounds | | X | X | X | X | X | X | X |
| ft | | | | Y | Y | Y | Y | Y | Y | Y |
| 100.00-80.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T15 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80.00-60.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T16 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 60.00-30.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T17 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30.00-0.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

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

| <i>T</i> | T | | D | 7 | C | | D | <u><u> </u></u> | 161 | <u>a.</u> | 1 11 | | | |
|--------------------------------------|---------------------------|---|---------------------------|------|---------------------------|------|------------------------------|-----------------|------------------------------|-----------|------------------------------|----------|------------------------------|----------|
| Tower Elevation ft | Leg | | Diago | nal | Top G | firt | Botton | n Girt | Mid | Girt | Long Ho | rizontal | Short Ho | rizontal |
| v | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| T1 320.00-304.00 | 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 |
| T2 304.00-300.00 | 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 |
| T3 300.00-280.00 | 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 |
| T4 280.00-260.00 | 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 |
| T5 260.00-240.00 | 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 |
| 260.00-240.00 T6 240.00-220.00 | 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 |
| T7 220.00-200.00 | 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 |
| Т8 | 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 |
| 200.00-180.00 T9 | 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 |
| 180.00-170.00 T10 | 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 |
| 170.00-160.00 T11 | 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 |
| 160.00-140.00 T12 | 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 |
| 140.00-120.00 T13 | 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 |
| 120.00-100.00 T14 | 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 |
| 100.00-80.00 T15 | 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 |
| 80.00-60.00 T16 | 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 |
| 60.00-30.00 T17 30.00-0.00 | 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 |

tnxTower

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| • | | 21007.82 - Colchester | 8 of 96 |
| Inc. | Project | | Date |
| Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| 5 80 7 | Client | Verizon | Designed by TJL |

| Tower Elevation ft | Redund Horizo | | Reduna Diagoi | | Redund Sub-Diag | | Redur Sub-Hor | | Redundan | t Vertical | Redunde | ant Hip | Redunda Diago | 1 |
|--------------------------------------|---------------------------|--------------|---------------------------|--------------|---------------------------|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|--------------|
| 2 | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| T1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| 320.00-304.00 T2 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| 304.00-300.00 T3 300.00-280.00 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T4 280.00-260.00 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T5 260.00-240.00 | 0.0000 | 0.75 | 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 240.00-220.00 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T7 220.00-200.00 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T8 200.00-180.00 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T9 180.00-170.00 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T10 170.00-160.00 T11 | 0.0000 | 0.75 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| 111 160.00-140.00 T12 | 0.0000 | 0.75 | 0.0000 | 0.75 0.75 | 0.0000 | 0.75 0.75 | 0.0000 | 0.75 0.75 | 0.0000 | 0.75 0.75 | 0.0000 | 0.75 0.75 | 0.0000 | 0.75 0.75 |
| 112 140.00-120.00 T13 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| 120.00-100.00 T14 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| 114 100.00-80.00 T15 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| 80.00-60.00 T16 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| 60.00-30.00 T17 30.00-0.00 | 0.0000 | 0.75 | 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 Elevation | Leg Connection | Leg | | Diagona | | Top Girt | | Bottom Girt | | Mid Girt | | Long Horizontal | | Short Hor | izontal |
|--------------------|-------------------|-----------|-----|-----------|-----|-----------|-----|-------------|-----|-----------|-----|-----------------|-----|-----------|---------|
| ft | Type | | | | | | | | | | | | | | |
| | | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. |
| | | in | | in | | in | | in | | in | | in | | in | |
| T1 | Flange | 1.0000 | 0 | 0.6250 | 1 | 0.6250 | 0 | 0.0000 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 320.00-304.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T2 | Flange | 1.0000 | 6 | 0.6250 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 304.00-300.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T3 | Flange | 1.0000 | 8 | 0.6250 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 300.00-280.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T4 | Flange | 1.0000 | 8 | 0.7500 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 280.00-260.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| Т5 | Flange | 1.0000 | 8 | 0.7500 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 260.00-240.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |

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| er | | 21007.82 - Colchester | 9 of 96 |
| ing Inc. | Project | | Date |
| ord Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| 5405 2-0580 8587 | Client | Verizon | Designed by TJL |

| Tower | Leg | Leg | | Diago | nal | Top G | irt | Bottom | Girt | Mid G | irt | Long Horn | zontal | Short Hor | izontal |
|----------------|------------|-----------|-----|-----------|-----|-----------|-----|-----------|------|-----------|-----|-----------|--------|-----------|---------|
| Elevation | Connection | | | | | | | | | | | | | | |
| ft | Type | | | | | | | | | | | | | | |
| | | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. |
| | | in | | in | | in | | in | | in | | in | | in | |
| T6 | Flange | 1.0000 | 8 | 0.7500 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 240.00-220.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T7 | Flange | 1.0000 | 12 | 0.7500 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 220.00-200.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T8 | Flange | 1.0000 | 12 | 0.8750 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 200.00-180.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| Т9 | Flange | 1.0000 | 12 | 0.8750 | 1 | 0.6250 | 0 | 0.0000 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 180.00-170.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T10 | Flange | 1.0000 | 0 | 0.8750 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 170.00-160.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T11 | Flange | 1.0000 | 12 | 0.8750 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 160.00-140.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T12 | Flange | 1.0000 | 12 | 0.8750 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| 140.00-120.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325N | | A325N | |
| T13 | Flange | 1.0000 | 12 | 0.7500 | 3 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.7500 | 2 | 0.6250 | 0 |
| 120.00-100.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325X | | A325N | |
| T14 | Flange | 1.0000 | 16 | 0.7500 | 3 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.7500 | 2 | 0.6250 | 0 |
| 100.00-80.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325X | | A325N | |
| T15 | Flange | 1.0000 | 16 | 0.7500 | 3 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.7500 | 2 | 0.6250 | 0 |
| 80.00-60.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325X | | A325N | |
| T16 | Flange | 1.0000 | 16 | 0.8750 | 3 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.7500 | 2 | 0.6250 | 0 |
| 60.00-30.00 | | A325N | | A325X | | A325N | | A325N | | A325N | | A325X | | A325N | |
| T17 30.00-0.00 | Flange | 1.0000 | 24 | 0.8750 | 3 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.7500 | 2 | 0.6250 | 0 |
| | | A325N | | A325X | | A325N | | A325N | | A325N | | A325X | | A325N | |

Feed Line/Linear Appurtenances - Entered As Round Or Flat

| Description | 17 | | | | | | | | | | | | |
|-------------|-----|--------|-------------|-----------|-----------|--------|-----------|---|-----|--------|----------|-----------|--------|
| | | Allow | Exclude | Component | Placement | Face | Lateral | # | # | Clear | | Perimeter | Weight |
| | or | Shield | From | Туре | | Offset | Offset | | | | Diameter | | |
| | Leg | | Torque | | ft | in | (Frac FW) | | Row | in | in | in | plf |
| | | | Calculation | | | | | | | | | | |
| 1 5/8 | А | No | No | Ar (CaAa) | 200.00 - | 0.0000 | -0.42 | 6 | 6 | 1.9800 | 1.9800 | | 1.04 |
| (AT&T) | | | | | 5.00 | | | | | | | | |
| 1 5/8 | С | No | No | Ar (CaAa) | 220.00 - | 0.0000 | -0.4 | 6 | 6 | 1.9800 | 1.9800 | | 1.04 |
| (Verizon) | | | | | 5.00 | | | | | | | | |
| 1 5/8" | С | No | No | Ar (CaAa) | 220.00 - | 0.0000 | -0.46 | 2 | 2 | 1.6000 | 1.6000 | | 1.85 |
| Hybriflex | | | | | 5.00 | | | | | | | | |
| (VZW) | | | | | | | | | | | | | |
| LC78-50JA-A | В | No | No | Ar (CaAa) | 174.00 - | 0.0000 | 0.48 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| 7 | | | | | 5.00 | | | | | | | | |
| (Cable # 34 | | | | | | | | | | | | | |
| HTS) | | | | | | | | | | | | | |
| LC78-50JA-A | в | No | No | Ar (CaAa) | 177.00 - | 0.0000 | 0.47 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| 7 | | | | | 5.00 | | | | | | | | |
| (Cable # 33 | | | | | | | | | | | | | |
| HTS) | | | | | | | | | | | | | |
| LDF4-50A | В | No | No | Ar (CaAa) | 174.00 - | 3.0000 | 0.48 | 1 | 1 | 0.6300 | 0.6300 | | 0.15 |
| (1/2 FOAM) | | | | | 5.00 | | | | | | | | |
| (Cable # 32 | | | | | | | | | | | | | |
| HTS) | | | | | | | | | | | | | |
| LC78-50JA-A | В | No | No | Ar (CaAa) | 176.00 - | 3.0000 | 0.47 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| 7 | | | | | 5.00 | | | | | | | | |
| (Cable # 31 | | | | | | | | | | | | | |
| HTS) | | | | | | | | | | | | | |

| A | Job | | Page |
|--|---------|--------------------------------|--------------------|
| tnxTower | | 21007.82 - Colchester | 10 of 96 |
| Centek Engineering Inc. | Project | 200 ft Lotting Towns (200 #50) | Date |
| 63-2 North Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Description | Face or Leg | Allow Shield | Exclude From Torque | Component Type | Placement ft | Face Offset in | Lateral Offset (Frac FW) | # | # Per Row | Clear Spacing in | Width or Diameter in | Perimeter in | Weight plf |
|--------------------------------|-------------------|-----------------|---------------------------|---|------------------|----------------------|--------------------------------|--------------|-----------------|------------------------|----------------------------|-----------------|---------------|
| | | | Calculation | | | | | | | | | | |
| LC78-50JA-A 7 (Cable #30 | В | No | No | Ar (CaAa) | 137.00 - 5.00 | 3.0000 | 0.46 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable #30 HTS) | | | | | | | | | | | | | |
| LC78-50ĴA-A 7 | В | No | No | Ar (CaAa) | 134.00 - 5.00 | 3.0000 | 0.45 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable # 29 | | | | | | | | | | | | | |
| HTS) LC78-50JA-A 7 | в | No | No | Ar (CaAa) | 91.00 - 5.00 | 0.0000 | 0.43 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable #26 | | | | | | | | | | | | | |
| HTS) | р | Na | N | $\mathbf{A} = (\mathbf{C} = \mathbf{A} = \mathbf{c})$ | 00.00 5.00 | 0.0000 | 0.42 | 1 | 1 | 1 0000 | 1 0000 | | 0.20 |
| C78-50JA-A 7 | В | No | No | Ar (CaAa) | 90.00 - 5.00 | 0.0000 | 0.42 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable #25 | | | | | | | | | | | | | |
| HTS) | Б | | N | | 202.00 | 2 0000 | 0.41 | | | 1 0000 | 1.0000 | | 0.70 |
| AVA7-50 (1-5/8 LOW | В | No | No | Ar (CaAa) | 283.00 - 5.00 | 3.0000 | 0.41 | 1 | 1 | 1.9800 | 1.9800 | | 0.72 |
| DENSI. | | | | | 5.00 | | | | | | | | |
| FOAM) | | | | | | | | | | | | | |
| (Cable #24 | | | | | | | | | | | | | |
| HTS) AVA7-50 | В | No | No | Ar (CaAa) | 284.00 - | 0.0000 | 0.41 | 1 | 1 | 1.9800 | 1.9800 | | 0.72 |
| (1-5/8 LOW | - | 1.0 | | | 5.00 | | | [•] | - | 10000 | 10000 | | 0= |
| DENSI. | | | | | | | | | | | | | |
| FOAM) (Cable # 21 | | | | | | | | | | | | | |
| HTS) | | | | | | | | | | | | | |
| AVA7-50 | в | No | No | Ar (CaAa) | 261.00 - | 0.0000 | 0.4 | 1 | 1 | 1.9800 | 1.9800 | | 0.72 |
| (1-5/8 LOW | | | | | 5.00 | | | | | | | | |
| DENSI. FOAM) | | | | | | | | | | | | | |
| (Cable # 20 | | | | | | | | | | | | | |
| HTS) | | | | | | | | | | | | | |
| AVA7-50 | в | No | No | Ar (CaAa) | 248.00 - | 0.0000 | 0.39 | 1 | 1 | 1.9800 | 1.9800 | | 0.72 |
| (1-5/8 LOW DENSI. | | | | | 5.00 | | | | | | | | |
| FOAM) | | | | | | | | | | | | | |
| (Cable # 19 | | | | | | | | | | | | | |
| HTS) AVA7-50 | в | No | No | Ar (CaAa) | 285.00 - | 3.0000 | 0.39 | 1 | 1 | 1.9800 | 1.9800 | | 0.72 |
| (1-5/8 LOW | Б | INU | INU | AI (CaAa) | 5.00 | 5.0000 | 0.59 | 1 | 1 | 1.9800 | 1.9800 | | 0.72 |
| DENSI. | | | | | | | | | | | | | |
| FOAM) | | | | | | | | | | | | | |
| (Cable # 22 HTS) | | | | | | | | | | | | | |
| AVA7-50 | в | No | No | Ar (CaAa) | 246.00 - | 0.0000 | 0.38 | 1 | 1 | 1.9800 | 1.9800 | | 0.72 |
| (1 - 5/8 LOW | | | | | 5.00 | | | | | | | | |
| DENSI. FOAM) | | | | | | | | | | | | | |
| (Cable # 16 | | | | | | | | | | | | | |
| HTS) | | | | | | | | | | | | | |
| AVA7-50 | В | No | No | Ar (CaAa) | 246.00 - | 3.0000 | 0.38 | 1 | 1 | 1.9800 | 1.9800 | | 0.72 |
| (1-5/8 LOW DENSI. | | | | | 5.00 | | | | | | | | |
| FOAM) | | | | | | | | | | | | | |
| (Cable # 17 | | | | | | | | | | | | | |
| HTS) | В | No | No | Ar (CaAa) | 246.00 - | 6.0000 | 0.38 | 1 | 1 | 0.6300 | 0.6300 | | 0.15 |
| LDF4-50A | | | | | | | | | | | | | |

| tran Torn on | Job | | Page |
|--|---------|--------------------------------|----------------------------------|
| tnxTower | | 21007.82 - Colchester | 11 of 96 |
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 F4X: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Description | Face or | Allow Shield | Exclude From | Component Type | | Face Offset | Lateral Offset | # | # Per | Clear Spacing | Width or Diameter | Perimeter | Weight |
|--|------------|-----------------|-----------------------|-------------------|------------------|----------------|-------------------|---|----------|------------------|----------------------|-----------|--------|
| | Leg | | Torque Calculation | | ft | in | (Frac FW) | | Row | in | in | in | plf |
| (Cable # 18 | | | Calculation | | | | | | | | | | |
| HTS) LC78-50JA-A | В | No | No | Ar (CaAa) | 235.00 - | 0.0000 | 0.37 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| 7 (Cable # 15 | | | | | 5.00 | | | | | | | | |
| HTS) WE65 (Cable # 14 | в | No | No | Af (CaAa) | 106.00 - 5.00 | 3.0000 | 0.37 | 1 | 1 | 1.5836 | 1.5836 | | 0.53 |
| HTS) C78-50JA-A 7 | В | No | No | Ar (CaAa) | 244.00 - 5.00 | 0.0000 | 0.36 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable # 13 HTS) C78-50JA-A 7 | в | No | No | Ar (CaAa) | 262.00 - 5.00 | 0.0000 | 0.35 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable #12 HTS) WE108 (Cable # 11 | В | No | No | Af (CaAa) | 113.00 - 5.00 | 3.0000 | 0.35 | 1 | 1 | 1.0149 | 1.0149 | | 0.35 |
| HTS) LC78-50JA-A 7 | в | No | No | Ar (CaAa) | 297.00 - 5.00 | 0.0000 | 0.34 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable # 10 HTS) LC78-50JA-A 7 | В | No | No | Ar (CaAa) | 290.00 - 5.00 | 0.0000 | 0.33 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable # 9 HTS) 1/2 (Cable # 8 | В | No | No | Ar (CaAa) | 284.00 - 5.00 | 3.0000 | 0.33 | 1 | 1 | 0.5800 | 0.5800 | | 0.25 |
| HTS) 1/2 (Cable # 6 | В | No | No | Ar (CaAa) | 320.00 - 5.00 | 6.0000 | 0.33 | 1 | 1 | 0.5800 | 0.5800 | | 0.25 |
| HTS) LC78-50JA-A 7 | в | No | No | Ar (CaAa) | 320.00 - 5.00 | 0.0000 | 0.32 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable # 4 HTS) 1/2 (Cable # 7 | в | No | No | Ar (CaAa) | 284.00 - 5.00 | 3.0000 | 0.32 | 1 | 1 | 0.5800 | 0.5800 | | 0.25 |
| HTS) 1/2 (Cable # 5 | В | No | No | Ar (CaAa) | 164.00 - 5.00 | 6.0000 | 0.32 | 1 | 1 | 0.5800 | 0.5800 | | 0.25 |
| HTS) C78-50JA-A 7 | в | No | No | Ar (CaAa) | 316.50 - 5.00 | 0.0000 | 0.31 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable #3 HTS) C78-50JA-A 7 | в | No | No | Ar (CaAa) | 318.00 - 5.00 | 0.0000 | 0.29 | 1 | 1 | 1.0900 | 1.0900 | | 0.28 |
| (Cable #1 HTS) * CSP Proposed | | | | | | | | | | | | | |
| Cables EW63 CSP Dish @ | В | No | No | Af (CaAa) | 154.00 - 5.00 | 0.0000 | 0.29 | 1 | 1 | 1.5742 | 1.5742 | | 0.51 |
| 154') 1-5/8'' Fiber Optic CaBLE | А | No | No | Ar (CaAa) | 200.00 - 5.00 | 0.0000 | -0.37 | 1 | 1 | 1.9800 | 1.9800 | | 1.85 |

| Anna Tanu an | Job | | Page |
|--|---------|--------------------------------|---------------------------|
| tnxTower | | 21007.82 - Colchester | 12 of 96 |
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Description | Face or | Allow Shield | Exclude From | Component Type | Placement | Face Offset | Lateral Offset | # | # Per | Clear Spacing | Width or Diameter | Perimeter | Weight |
|--------------|------------|-----------------|-----------------------|-------------------|-----------|----------------|-------------------|---|----------|------------------|----------------------|-----------|--------|
| | Leg | | Torque Calculation | | ft | in | (Frac FW) | | Row | in | in | in | plf |
| (AT&T) | | | | | | | | | | | | | |
| 1/2 | Α | No | No | Ar (CaAa) | 200.00 - | 0.0000 | -0.35 | 2 | 2 | 0.5800 | 0.5800 | | 0.25 |
| (AT&T) | | | | | 5.00 | | | | | | | | |
| * Eversource | | | | | | | | | | | | | |
| LCF78-50J | в | No | No | Ar (CaAa) | 163.00 - | 0.0000 | 0.27 | 1 | 1 | 1.1000 | 1.1000 | | 0.53 |
| (7/8 FOAM) | | | | | 5.00 | | | | | | | | |
| (Eversource) | | | | | | | | | | | | | |
| LCF78-50J | в | No | No | Ar (CaAa) | 145.00 - | 0.0000 | 0.26 | 1 | 1 | 1.1000 | 1.1000 | | 0.53 |
| (7/8 FOAM) | | | | | 5.00 | | | | | | | | |
| (Eversource) | | | | | | | | | | | | | |

| | | Feed | l Line/l | _inear A | ppurter | nances | Section |
|------------------|--------------------|------|----------|----------|--|-----------------------|---------|
| | | | | | | | |
| Tower Section | Tower Elevation | Face | A_R | A_F | C _A A _A In Face | $C_A A_A$ Out Face | Weight |
| | ft | | ft^2 | ft^2 | ft^2 | ft^2 | lb |
| T1 | 320.00-304.00 | А | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | в | 0.000 | 0.000 | 5.561 | 0.000 | 15.90 |
| | | С | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T2 | 304.00-300.00 | Α | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | 0.000 | 0.000 | 1.540 | 0.000 | 4.36 |
| | | С | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T3 | 300.00-280.00 | А | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | 0.000 | 0.000 | 13.483 | 0.000 | 40.00 |
| | | С | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T4 | 280.00-260.00 | А | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | в | 0.000 | 0.000 | 26.676 | 0.000 | 87.48 |
| | | С | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T5 | 260.00-240.00 | А | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | в | 0.000 | 0.000 | 37.174 | 0.000 | 122.62 |
| | | С | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T6 | 240.00-220.00 | А | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | в | 0.000 | 0.000 | 49.355 | 0.000 | 162.20 |
| | | С | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T 7 | 220.00-200.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | 0.000 | 0.000 | 49.900 | 0.000 | 163.60 |
| | | C | 0.000 | 0.000 | 30.160 | 0.000 | 198.80 |
| T8 | 200.00-180.00 | A | 0.000 | 0.000 | 30.040 | 0.000 | 171.80 |
| | | В | 0.000 | 0.000 | 49.900 | 0.000 | 163.60 |
| | | С | 0.000 | 0.000 | 30.160 | 0.000 | 198.80 |
| Т9 | 180.00-170.00 | A | 0.000 | 0.000 | 15.020 | 0.000 | 85.90 |
| | | В | 0.000 | 0.000 | 27.055 | 0.000 | 87.16 |
| | | С | 0.000 | 0.000 | 15.080 | 0.000 | 99.40 |
| T10 | 170.00-160.00 | A | 0.000 | 0.000 | 15.020 | 0.000 | 85.90 |
| | | В | 0.000 | 0.000 | 29.412 | 0.000 | 94.29 |
| | | С | 0.000 | 0.000 | 15.080 | 0.000 | 99.40 |
| T11 | 160.00-140.00 | Ă | 0.000 | 0.000 | 30.040 | 0.000 | 171.80 |
| | | В | 0.000 | 0.000 | 65.283 | 0.000 | 208.79 |
| | | Ē | 0.000 | 0.000 | 30.160 | 0.000 | 198.80 |
| T12 | 140.00-120.00 | Ă | 0.000 | 0.000 | 30.040 | 0.000 | 171.80 |
| | | В | 0.000 | 0.000 | 71.886 | 0.000 | 228.48 |
| | | č | 0.000 | 0.000 | 30.160 | 0.000 | 198.80 |
| T13 | 120.00-100.00 | Ă | 0.000 | 0.000 | 30.040 | 0.000 | 171.80 |
| | | В | 0.000 | 0.000 | 76.650 | 0.000 | 238.73 |
| | | Ē | 0.000 | 0.000 | 30.160 | 0.000 | 198.80 |
| T14 | 100.00-80.00 | Ă | 0.000 | 0.000 | 30.040 | 0.000 | 171.80 |

tnxTower

| Job | | Page |
|---------|--------------------------------|-------------------|
| | 21007.82 - Colchester | 13 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | | Designed by |
| | Verizon | TJL |
| | | |

| Tower | Tower | Face | A_R | A_F | $C_A A_A$ | $C_A A_A$ | Weight |
|---------|-------------|------|--------|--------|-----------|-----------|--------|
| Section | Elevation | | | | In Face | Out Face | _ |
| | ft | | ft^2 | ft^2 | ft^2 | ft^2 | lb |
| | | В | 0.000 | 0.000 | 83.818 | 0.000 | 254.48 |
| | | С | 0.000 | 0.000 | 30.160 | 0.000 | 198.80 |
| T15 | 80.00-60.00 | Α | 0.000 | 0.000 | 30.040 | 0.000 | 171.80 |
| | | В | 0.000 | 0.000 | 85.889 | 0.000 | 259.80 |
| | | С | 0.000 | 0.000 | 30.160 | 0.000 | 198.80 |
| T16 | 60.00-30.00 | Α | 0.000 | 0.000 | 45.060 | 0.000 | 257.70 |
| | | в | 0.000 | 0.000 | 128.833 | 0.000 | 389.70 |
| | | С | 0.000 | 0.000 | 45.240 | 0.000 | 298.20 |
| T17 | 30.00-0.00 | А | 0.000 | 0.000 | 37.550 | 0.000 | 214.75 |
| | | в | 0.000 | 0.000 | 107.361 | 0.000 | 324.75 |
| | | С | 0.000 | 0.000 | 37.700 | 0.000 | 248.50 |

Feed Line/Linear Appurtenances Section Areas - With Ice

| Tower | Tower | Face | Ice | A_R | A_F | $C_A A_A$ | $C_A A_A$ | Weight |
|------------|---------------|------|-----------|--------|--------|-----------|-----------|---------|
| Section | Elevation | or | Thickness | | | In Face | Out Face | |
| | ft | Leg | in | ft^2 | ft^2 | ft^2 | ft^2 | lb |
| T1 | 320.00-304.00 | Α | 1.440 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | | 0.000 | 0.000 | 22.405 | 0.000 | 261.85 |
| | | С | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T2 | 304.00-300.00 | Α | 1.435 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | | 0.000 | 0.000 | 6.132 | 0.000 | 71.62 |
| | | С | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T3 | 300.00-280.00 | Α | 1.429 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | | 0.000 | 0.000 | 49.786 | 0.000 | 592.40 |
| | | С | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T4 | 280.00-260.00 | Α | 1.419 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | | 0.000 | 0.000 | 89.970 | 0.000 | 1098.70 |
| | | С | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T5 | 260.00-240.00 | А | 1.408 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | | 0.000 | 0.000 | 118.862 | 0.000 | 1465.07 |
| | | С | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T6 | 240.00-220.00 | А | 1.397 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | | 0.000 | 0.000 | 154.126 | 0.000 | 1898.59 |
| | | С | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| T 7 | 220.00-200.00 | Α | 1.385 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | В | | 0.000 | 0.000 | 155.138 | 0.000 | 1897.96 |
| | | С | | 0.000 | 0.000 | 84.362 | 0.000 | 1118.41 |
| Т8 | 200.00-180.00 | А | 1.372 | 0.000 | 0.000 | 85.834 | 0.000 | 1097.47 |
| | | В | | 0.000 | 0.000 | 154.148 | 0.000 | 1873.34 |
| | | С | | 0.000 | 0.000 | 84.196 | 0.000 | 1110.86 |
| T9 | 180.00-170.00 | А | 1.361 | 0.000 | 0.000 | 42.830 | 0.000 | 545.46 |
| | | В | | 0.000 | 0.000 | 84.506 | 0.000 | 1014.93 |
| | | С | | 0.000 | 0.000 | 42.033 | 0.000 | 552.45 |
| T10 | 170.00-160.00 | Α | 1.354 | 0.000 | 0.000 | 42.771 | 0.000 | 543.21 |
| | | В | | 0.000 | 0.000 | 93.607 | 0.000 | 1112.03 |
| | | С | | 0.000 | 0.000 | 41.988 | 0.000 | 550.41 |
| T11 | 160.00-140.00 | А | 1.343 | 0.000 | 0.000 | 85.358 | 0.000 | 1079.51 |
| | | В | | 0.000 | 0.000 | 204.733 | 0.000 | 2407.81 |
| | | С | | 0.000 | 0.000 | 83.838 | 0.000 | 1094.54 |
| T12 | 140.00-120.00 | Α | 1.329 | 0.000 | 0.000 | 85.111 | 0.000 | 1070.23 |
| | | В | | 0.000 | 0.000 | 223.633 | 0.000 | 2603.25 |
| | | С | | 0.000 | 0.000 | 83.653 | 0.000 | 1086.09 |
| T13 | 120.00-100.00 | A | 1.315 | 0.000 | 0.000 | 84.874 | 0.000 | 1061.34 |
| | | В | | 0.000 | 0.000 | 234.150 | 0.000 | 2697.30 |
| | | С | | 0.000 | 0.000 | 83.474 | 0.000 | 1078.00 |
| T14 | 100.00-80.00 | A | 1.303 | 0.000 | 0.000 | 84.672 | 0.000 | 1053.80 |
| | | В | | 0.000 | 0.000 | 250.822 | 0.000 | 2860.17 |

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|--|---------|--------------------------------|-------------------|
| tnxTower | | 21007.82 - Colchester | 14 of 96 |
| Centek Engineering Inc. | Project | | Date |
| 63-2 North Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 | Client | | Designed by |
| Phone: (203) 488-0580 FAX: (203) 488-8587 | | Verizon | TJL |

| Tower | Tower | Face | Ice | A_R | A_F | $C_A A_A$ | $C_A A_A$ | Weight |
|---------|-------------|------|-----------|--------|--------|-----------|-----------|---------|
| Section | Elevation | or | Thickness | | | In Face | Out Face | |
| | ft | Leg | in | ft^2 | ft^2 | ft^2 | ft^2 | lb |
| | | С | | 0.000 | 0.000 | 83.322 | 0.000 | 1071.12 |
| T15 | 80.00-60.00 | А | 1.295 | 0.000 | 0.000 | 84.548 | 0.000 | 1049.17 |
| | | В | | 0.000 | 0.000 | 256.871 | 0.000 | 2914.85 |
| | | С | | 0.000 | 0.000 | 83.229 | 0.000 | 1066.90 |
| T16 | 60.00-30.00 | А | 1.298 | 0.000 | 0.000 | 126.883 | 0.000 | 1576.02 |
| | | В | | 0.000 | 0.000 | 385.783 | 0.000 | 4383.52 |
| | | С | | 0.000 | 0.000 | 124.889 | 0.000 | 1602.42 |
| T17 | 30.00-0.00 | А | 1.303 | 0.000 | 0.000 | 105.842 | 0.000 | 1317.33 |
| | | В | | 0.000 | 0.000 | 322.322 | 0.000 | 3672.72 |
| | | С | | 0.000 | 0.000 | 104.154 | 0.000 | 1338.97 |

| | | F€ | ed Line | Center of | f Press |
|------------|---------------|---------|---------|-----------|---------|
| Section | Elevation | CP_X | CPz | CP_X | CPz |
| | | | | Ice | Ice |
| | ft | in | in | in | in |
| T1 | 320.00-304.00 | 2.5585 | 0.7653 | 5.6337 | 1.5661 |
| T2 | 304.00-300.00 | 2.9423 | 0.8782 | 6.2954 | 1.7537 |
| Т3 | 300.00-280.00 | 5.1084 | 1.7478 | 10.0831 | 3.1857 |
| Τ4 | 280.00-260.00 | 5.9347 | 2.4163 | 13.9913 | 5.1998 |
| Т5 | 260.00-240.00 | 8.6793 | 3.7103 | 19.0753 | 7.4793 |
| Т6 | 240.00-220.00 | 11.2158 | 4.8855 | 24.0367 | 9.6748 |
| T 7 | 220.00-200.00 | 18.8855 | 10.7084 | 35.8552 | 18.7814 |
| Т8 | 200.00-180.00 | 10.5950 | 13.5313 | 20.1947 | 22.9925 |
| Т9 | 180.00-170.00 | 12.1987 | 14.8386 | 23.4962 | 25.3656 |
| T10 | 170.00-160.00 | 13.6862 | 15.8268 | 26.6700 | 27.1187 |
| T11 | 160.00-140.00 | 14.7151 | 15.8660 | 28.9029 | 27.6923 |
| T12 | 140.00-120.00 | 16.8966 | 17.2119 | 32.9481 | 30.0279 |
| T13 | 120.00-100.00 | 24.6974 | 23.3249 | 42.0482 | 36.3965 |
| T14 | 100.00-80.00 | 28.6992 | 25.8171 | 47.7485 | 39.8986 |
| T15 | 80.00-60.00 | 29.1191 | 26.0771 | 50.1725 | 41.7161 |
| T16 | 60.00-30.00 | 31.4614 | 28.1866 | 54.0369 | 44.9527 |
| T17 | 30.00-0.00 | 29.4550 | 26.5187 | 52.4688 | 43.8449 |

Shielding Factor Ka

| Tower | Feed Line | Description | Feed Line | K_a | K_a |
|---------|------------|--------------|---------------|--------|--------|
| Section | Record No. | | Segment Elev. | No Ice | Ice |
| T1 | 31 | 1/2 | 304.00 - | 0.6000 | 0.6000 |
| | | | 320.00 | | |
| T1 | 32 | LC78-50JA-A7 | 304.00 - | 0.6000 | 0.6000 |
| | | | 320.00 | | |
| T1 | 35 | LC78-50JA-A7 | 304.00 - | 0.6000 | 0.6000 |
| | | | 316.50 | | |
| T1 | 36 | LC78-50JA-A7 | 304.00 - | 0.6000 | 0.6000 |
| | | | 318.00 | | |
| T2 | 31 | 1/2 | 300.00 - | 0.6000 | 0.6000 |
| | | | 304.00 | | |
| T2 | 32 | LC78-50JA-A7 | 300.00 - | 0.6000 | 0.6000 |
| | | | 304.00 | | |
| T2 | 35 | LC78-50JA-A7 | 300.00 - | 0.6000 | 0.6000 |

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| | 21007.82 - Colchester | 15 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | Verizon | Designed by TJL |

| Tower | Feed Line | Description | Feed Line | K_a | Ka |
|---------|------------|------------------------------------|--------------------|--------|--------|
| Section | Record No. | * | Segment Elev. | No Ice | Ice |
| | 25 | | 304.00 | 0.000 | 0.0000 |
| T2 | 36 | LC78-50JA-A7 | 300.00 - 304.00 | 0.6000 | 0.6000 |
| Т3 | 14 | AVA7-50 (1-5/8 LOW | 280.00 - | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | 283.00 | | |
| Т3 | 15 | AVA7-50 (1-5/8 LOW | 280.00 - | 0.6000 | 0.6000 |
| Т3 | 19 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 284.00 280.00 - | 0.6000 | 0.6000 |
| 15 | 19 | DENSI, FOAM) | 280.00 - 285.00 | 0.0000 | 0.0000 |
| Т3 | 28 | LC78-50JA-A7 | 280.00 - | 0.6000 | 0.6000 |
| | | | 297.00 | | |
| Т3 | 29 | LC78-50JA-A7 | 280.00 - | 0.6000 | 0.6000 |
| Т3 | 30 | 1/2 | 290.00 280.00 - | 0.6000 | 0.6000 |
| 10 | 20 | | 284.00 | 010000 | 010000 |
| Т3 | 31 | 1/2 | 280.00 - | 0.6000 | 0.6000 |
| T2 | 22 | | 300.00 | 0.000 | 0.000 |
| Т3 | 32 | LC78-50JA-A7 | 280.00 - 300.00 | 0.6000 | 0.6000 |
| Т3 | 33 | 1/2 | 280.00 - | 0.6000 | 0.6000 |
| | | | 284.00 | | |
| Т3 | 35 | LC78-50JA-A7 | 280.00 - | 0.6000 | 0.6000 |
| Т3 | 36 | LC78-50JA-A7 | 300.00 280.00 - | 0.6000 | 0.6000 |
| 15 | 50 | LC/0-50511-11/ | 300.00 | 0.0000 | 0.0000 |
| T4 | 14 | AVA7-50 (1-5/8 LOW | 260.00 - | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | 280.00 | 0 (000 | 0.0000 |
| T4 | 15 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 260.00 - 280.00 | 0.6000 | 0.6000 |
| T4 | 16 | AVA7-50 (1-5/8 LOW | 260.00 - | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | 261.00 | | |
| T4 | 19 | AVA7-50 (1-5/8 LOW | 260.00 - | 0.6000 | 0.6000 |
| T4 | 26 | DENSI. FOAM) LC78-50JA-A7 | 280.00 260.00 - | 0.6000 | 0.6000 |
| 14 | 20 | LC/0-30JA-A/ | 262.00 | 0.0000 | 0.0000 |
| T4 | 28 | LC78-50JA-A7 | 260.00 - | 0.6000 | 0.6000 |
| | | | 280.00 | | |
| T4 | 29 | LC78-50JA-A7 | 260.00 - 280.00 | 0.6000 | 0.6000 |
| T4 | 30 | 1/2 | 280.00 | 0.6000 | 0.6000 |
| | 50 | 1) 2 | 280.00 | 0.0000 | 010000 |
| T4 | 31 | 1/2 | 260.00 - | 0.6000 | 0.6000 |
| T4 | 32 | LC78-50JA-A7 | 280.00 260.00 - | 0.6000 | 0.6000 |
| 14 | 32 | LC/8-20JA-A/ | 260.00 - 280.00 | 0.0000 | 0.0000 |
| T4 | 33 | 1/2 | 260.00 - | 0.6000 | 0.6000 |
| | | | 280.00 | | |
| T4 | 35 | LC78-50JA-A7 | 260.00 - | 0.6000 | 0.6000 |
| T4 | 36 | LC78-50JA-A7 | 280.00 260.00 - | 0.6000 | 0.6000 |
| 14 | 50 | LC/0-JUJA-A/ | 280.00 | 0.0000 | 0.0000 |
| Т5 | 14 | AVA7-50 (1-5/8 LOW | 240.00 - | 0.6000 | 0.6000 |
| T | 1 | DENSI. FOAM) | 260.00 | 0 (000 | 0.000 |
| T5 | 15 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 240.00 - 260.00 | 0.6000 | 0.6000 |
| Т5 | 16 | AVA7-50 (1-5/8 LOW | 240.00 - | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | 260.00 | | |
| Т5 | 18 | AVA7-50 (1-5/8 LOW | 240.00 - | 0.6000 | 0.6000 |
| Т5 | 19 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 248.00 240.00 - | 0.6000 | 0.6000 |
| 15 | 19 | DENSI. FOAM) | 260.00 | 0.0000 | 0.0000 |
| Т5 | 20 | , | 240.00 - | 0.6000 | 0.6000 |
| | | | | | - |

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| | | 21007.82 - Colchester | 16 of 96 |
| | Project | | Date |
| • | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | N/ 1 | Designed by |
| | | Verizon | TJL |

| Tower | Feed Line | Description | Feed Line | K_a | K_a |
|------------|------------|------------------------------------|--------------------|---------|--------|
| Section | Record No. | | Segment Elev. | No Ice | Ice |
| Τſ | - 1 | DENSI. FOAM) | 246.00 | 0.6000 | 0.6000 |
| Т5 | 21 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 240.00 - 246.00 | 0.6000 | 0.6000 |
| Т5 | 22 | LDF4-50A (1/2 FOAM) | 246.00 | 0.6000 | 0.6000 |
| 15 | 22 | LD1 +-50A (1/2 FOAM) | 246.00 | 0.0000 | 0.0000 |
| Т5 | 25 | LC78-50JA-A7 | 240.00 - | 0.6000 | 0.6000 |
| | | | 244.00 | | |
| Т5 | 26 | LC78-50JA-A7 | 240.00 - | 0.6000 | 0.6000 |
| | | | 260.00 | | |
| Т5 | 28 | LC78-50JA-A7 | 240.00 - | 0.6000 | 0.6000 |
| | | | 260.00 | | |
| Т5 | 29 | LC78-50JA-A7 | 240.00 - | 0.6000 | 0.6000 |
| Т5 | 30 | 1/2 | 260.00 240.00 - | 0.6000 | 0.6000 |
| 15 | 50 | 172 | 240.00 - 260.00 | 0.0000 | 0.0000 |
| Т5 | 31 | 1/2 | 240.00 - | 0.6000 | 0.6000 |
| | 51 | | 260.00 | 0100000 | 010000 |
| Т5 | 32 | LC78-50JA-A7 | 240.00 - | 0.6000 | 0.6000 |
| | | | 260.00 | | |
| Т5 | 33 | 1/2 | 240.00 - | 0.6000 | 0.6000 |
| | | | 260.00 | | |
| Т5 | 35 | LC78-50JA-A7 | 240.00 - | 0.6000 | 0.6000 |
| | 26 | | 260.00 | 0.000 | 0.0000 |
| Т5 | 36 | LC78-50JA-A7 | 240.00 - 260.00 | 0.6000 | 0.6000 |
| Т6 | 14 | AVA7-50 (1-5/8 LOW | 220.00 - | 0.6000 | 0.6000 |
| 10 | 14 | DENSI. FOAM) | 240.00 | 0.0000 | 0.0000 |
| Т6 | 15 | AVA7-50 (1-5/8 LOW | 220.00 - | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | 240.00 | | |
| Т6 | 16 | AVA7-50 (1-5/8 LOW | 220.00 - | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | 240.00 | | |
| Т6 | 18 | AVA7-50 (1-5/8 LOW | 220.00 - | 0.6000 | 0.6000 |
| | 10 | DENSI. FOAM) | 240.00 | 0 (000 | 0 (000 |
| Т6 | 19 | AVA7-50 (1-5/8 LOW | 220.00 - | 0.6000 | 0.6000 |
| T6 | 20 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 240.00 220.00 - | 0.6000 | 0.6000 |
| 10 | 20 | DENSI. FOAM) | 240.00 | 0.0000 | 0.0000 |
| Т6 | 21 | AVA7-50 (1-5/8 LOW | 220.00 - | 0.6000 | 0.6000 |
| 10 | 21 | DENSI. FOAM) | 240.00 | 0.00000 | 0.0000 |
| Т6 | 22 | LDF4-50A (1/2 FOAM) | 220.00 - | 0.6000 | 0.6000 |
| | | 、 | 240.00 | | |
| Т6 | 23 | LC78-50JA-A7 | 220.00 - | 0.6000 | 0.6000 |
| _ | | | 235.00 | | |
| Т6 | 25 | LC78-50JA-A7 | 220.00 - | 0.6000 | 0.6000 |
| T (| 24 | | 240.00 | 0.6000 | 0 (000 |
| Т6 | 26 | LC78-50JA-A7 | 220.00 - 240.00 | 0.6000 | 0.6000 |
| Т6 | 28 | LC78-50JA-A7 | 240.00 | 0.6000 | 0.6000 |
| 10 | 20 | LC/0-505A-A/ | 240.00 | 0.0000 | 0.0000 |
| Т6 | 29 | LC78-50JA-A7 | 220.00 - | 0.6000 | 0.6000 |
| 10 | | | 240.00 | 2.30000 | |
| Т6 | 30 | 1/2 | 220.00 - | 0.6000 | 0.6000 |
| | | | 240.00 | | |
| T6 | 31 | 1/2 | 220.00 - | 0.6000 | 0.6000 |
| | | 7 050 5074 15 | 240.00 | 0 2000 | 0 (000 |
| Т6 | 32 | LC78-50JA-A7 | 220.00 - | 0.6000 | 0.6000 |
| т(| 22 | 1/2 | 240.00 220.00 - | 0.6000 | 0 6000 |
| Т6 | 33 | 1/2 | 220.00 - 240.00 | 0.0000 | 0.6000 |
| Т6 | 35 | LC78-50JA-A7 | 220.00 - | 0.6000 | 0.6000 |
| 10 | 55 | LC/0-30311-11/ | 240.00 | 0.0000 | 0.0000 |
| T6 | 36 | LC78-50JA-A7 | 220.00 - | 0.6000 | 0.6000 |
| | | | • | | • |

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| | | 21007.82 - Colchester | 17 of 96 |
| | Project | | Date |
| • | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | Verizon | Designed by TJL |

| Tower | Feed Line | Description | Feed Line | K_a | Ka |
|---------|------------|------------------------------------|------------------------------|--------|--------|
| Section | Record No. | | Segment Elev. | No Ice | Ice |
| Τ7 | 2 | 1 5/8 | 240.00 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 3 | 1 5/8" Hybriflex | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 14 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 15 | AVA7-50 (1-5/8 LOW DENSI, FOAM) | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 16 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 18 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 19 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 20 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 21 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 22 | LDF4-50A (1/2 FOAM) | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 23 | LC78-50JA-A7 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 25 | LC78-50JA-A7 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 26 | LC78-50JA-A7 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 28 | LC78-50JA-A7 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 29 | LC78-50JA-A7 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 30 | 1/2 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 31 | 1/2 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 32 | LC78-50JA-A7 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 33 | 1/2 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 35 | LC78-50JA-A7 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Τ7 | 36 | LC78-50JA-A7 | 200.00 - 220.00 | 0.6000 | 0.6000 |
| Т8 | 1 | 1 5/8 | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 2 | 1 5/8 | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 3 | 1 5/8" Hybriflex | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 14 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 15 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 16 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 18 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 19 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 20 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 21 | AVA7-50 (1-5/8 LOW | | 0.6000 | 0.6000 |

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| | 21007.82 - Colchester | 18 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | Verizon | Designed by TJL |
| | | IJL |

| Tower | Feed Line | Description | Feed Line | Ka | Ka |
|---------|------------|-------------------------------------|--------------------|--------|--------|
| Section | Record No. | * | Segment Elev. | No Ice | Ice |
| | | DENSI. FOAM) | 200.00 | 0 | 0 |
| Т8 | 22 | LDF4-50A (1/2 FOAM) | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 23 | LC78-50JA-A7 | 180.00 - | 0.6000 | 0.6000 |
| | | | 200.00 | | |
| Т8 | 25 | LC78-50JA-A7 | 180.00 - | 0.6000 | 0.6000 |
| Т8 | 26 | LC78-50JA-A7 | 200.00 180.00 - | 0.6000 | 0.6000 |
| 10 | 20 | LC/8-30JA-A/ | 200.00 | 0.0000 | 0.0000 |
| Т8 | 28 | LC78-50JA-A7 | 180.00 - | 0.6000 | 0.6000 |
| | 20 | | 200.00 | 0.000 | 0.0000 |
| Т8 | 29 | LC78-50JA-A7 | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 30 | 1/2 | 180.00 - | 0.6000 | 0.6000 |
| | | | 200.00 | | |
| Т8 | 31 | 1/2 | 180.00 - 200.00 | 0.6000 | 0.6000 |
| Т8 | 32 | LC78-50JA-A7 | 180.00 - | 0.6000 | 0.6000 |
| | | | 200.00 | | |
| Т8 | 33 | 1/2 | 180.00 - | 0.6000 | 0.6000 |
| Т8 | 35 | LC78-50JA-A7 | 200.00 180.00 - | 0.6000 | 0.6000 |
| 10 | 55 | LC/6-50511-14/ | 200.00 | 0.0000 | 0.0000 |
| Т8 | 36 | LC78-50JA-A7 | 180.00 - | 0.6000 | 0.6000 |
| Т8 | 41 | 1-5/8" Fiber Optic CaBLE | 200.00 180.00 - | 0.6000 | 0.6000 |
| 10 | 41 | 1-5/8 Fiber Optic Cable | 200.00 | 0.0000 | 0.0000 |
| Т8 | 42 | 1/2 | 180.00 - | 0.6000 | 0.6000 |
| | | | 200.00 | | |
| Т9 | 1 | 1 5/8 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 2 | 1 5/8 | 170.00 - | 0.6000 | 0.6000 |
| | | | 180.00 | | |
| Т9 | 3 | 1 5/8" Hybriflex | 170.00 - | 0.6000 | 0.6000 |
| Т9 | 4 | LC78-50JA-A7 | 180.00 170.00 - | 0.6000 | 0.6000 |
| | | | 174.00 | | |
| Т9 | 5 | LC78-50JA-A7 | 170.00 - | 0.6000 | 0.6000 |
| Т9 | 6 | LDF4-50A (1/2 FOAM) | 177.00 170.00 - | 0.6000 | 0.6000 |
| 19 | 0 | LDI 7-30A (1/2 I OAM) | 174.00 | 0.0000 | 0.0000 |
| Т9 | 7 | LC78-50JA-A7 | 170.00 - | 0.6000 | 0.6000 |
| Т9 | 14 | AVA7-50 (1-5/8 LOW | 176.00 | 0.6000 | 0.6000 |
| 19 | 14 | DENSI. FOAM) | 170.00 - 180.00 | 0.0000 | 0.0000 |
| Т9 | 15 | AVA7-50 (1-5/8 LOW | 170.00 - | 0.6000 | 0.6000 |
| - | | DENSI. FOAM) | 180.00 | 0 (000 | 0.0000 |
| Т9 | 16 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 18 | AVA7-50 (1-5/8 LOW | 170.00 - | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | 180.00 | | |
| Т9 | 19 | AVA7-50 (1-5/8 LOW | 170.00 - | 0.6000 | 0.6000 |
| Т9 | 20 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 180.00 170.00 - | 0.6000 | 0.6000 |
| | 20 | DENSI. FOAM) | 180.00 | 0.0000 | |
| Т9 | 21 | AVA7-50 (1-5/8 LOW | 170.00 - | 0.6000 | 0.6000 |
| Т9 | 22 | DENSI. FOAM) LDF4-50A (1/2 FOAM) | 180.00 170.00 - | 0.6000 | 0.6000 |
| 19 | 22 | LD14-30A (1/2 FOAM) | 170.00 - | 0.0000 | 0.0000 |
| Т9 | 23 | LC78-50JA-A7 | 170.00 - | 0.6000 | 0.6000 |
| TO | 25 | TOTO FOTA AT | 180.00 | 0.000 | 0.000 |
| Т9 | 25 | LC78-50JA-A7 | 170.00 - | 0.6000 | 0.6000 |

tnxTower

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| | 21007.82 - Colchester | 19 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | Marinan | Designed by |
| Verizon | | TJL |

| Tower | Feed Line | Description | Feed Line | Ka | K_a |
|---------|------------|------------------------------------|-------------------------|--------|--------|
| Section | Record No. | | Segment Elev. 180.00 | No Ice | Ice |
| Т9 | 26 | LC78-50JA-A7 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 28 | LC78-50JA-A7 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 29 | LC78-50JA-A7 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 30 | 1/2 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 31 | 1/2 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 32 | LC78-50JA-A7 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 33 | 1/2 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 35 | LC78-50JA-A7 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 36 | LC78-50JA-A7 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 41 | 1-5/8" Fiber Optic CaBLE | 170.00 - 180.00 | 0.6000 | 0.6000 |
| Т9 | 42 | 1/2 | 170.00 - 180.00 | 0.6000 | 0.6000 |
| T10 | 1 | 1 5/8 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 2 | 1 5/8 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| Т10 | 3 | 1 5/8" Hybriflex | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 4 | LC78-50JA-A7 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 5 | LC78-50JA-A7 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 6 | LDF4-50A (1/2 FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 7 | LC78-50JA-A7 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 14 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 15 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 16 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 18 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 19 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 20 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 21 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 22 | LDF4-50A (1/2 FOAM) | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 23 | LC78-50JA-A7 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 25 | LC78-50JA-A7 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 26 | LC78-50JA-A7 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 28 | LC78-50JA-A7 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 29 | LC78-50JA-A7 | | 0.6000 | 0.6000 |

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| | | 21007.82 - Colchester | 20 of 96 |
| | Project | | Date |
| • | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | Verizon | Designed by TJL |

| Tower Section | Feed Line | Description | Feed Line | K _a | Ka |
|------------------|------------|-------------------------------------|-------------------------|----------------|--------|
| Section | Record No. | | Segment Elev. 170.00 | No Ice | Ice |
| Т10 | 30 | 1/2 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| Т10 | 31 | 1/2 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| T10 | 32 | LC78-50JA-A7 | 160.00 - 170.00 | 0.6000 | 0.6000 |
| Т10 | 33 | 1/2 | 160.00 - | 0.6000 | 0.6000 |
| Т10 | 34 | 1/2 | 170.00 160.00 - | 0.6000 | 0.6000 |
| Т10 | 35 | LC78-50JA-A7 | 164.00 160.00 - | 0.6000 | 0.6000 |
| Т10 | 36 | LC78-50JA-A7 | 170.00 160.00 - | 0.6000 | 0.6000 |
| Т10 | 41 | 1-5/8" Fiber Optic CaBLE | 170.00 160.00 - | 0.6000 | 0.6000 |
| Т10 | 42 | 1/2 | 170.00 160.00 - | 0.6000 | 0.6000 |
| Т10 | 44 | LCF78-50J (7/8 FOAM) | 170.00 160.00 - | 0.6000 | 0.6000 |
| T11 | 1 | 1 5/8 | 163.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 2 | 1 5/8 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 3 | 1 5/8" Hybriflex | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 4 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 5 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 6 | LDF4-50A (1/2 FOAM) | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 7 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| Т11 | 14 | AVA7-50 (1-5/8 LOW | 160.00 140.00 - | 0.6000 | 0.6000 |
| Т11 | 15 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 160.00 140.00 - | 0.6000 | 0.6000 |
| Т11 | 16 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 18 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 19 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 20 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 21 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 22 | DENSI. FOAM) LDF4-50A (1/2 FOAM) | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 23 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 25 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 26 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 28 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T 11 | 29 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 30 | 1/2 | 160.00 140.00 - | 0.6000 | 0.6000 |

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| | | 21007.82 - Colchester | 21 of 96 |
| | Project | | Date |
| • | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | Verizon | Designed by TJL |

| Tower Section | Feed Line Record No. | Description | Feed Line Segment Elev. | K _a No Ice | K _a Ice |
|------------------|-------------------------|--|------------------------------|--------------------------|-----------------------|
| T11 | 31 | 1/2 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 32 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 32 | 1/2 | 160.00 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 34 | 1/2 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 35 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 36 | LC78-50JA-A7 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 39 | EW63 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 41 | 1-5/8" Fiber Optic CaBLE | 154.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 42 | 1/2 | 160.00 140.00 - | 0.6000 | 0.6000 |
| T11 | 44 | LCF78-50J (7/8 FOAM) | 160.00 140.00 - | 0.6000 | 0.6000 |
| Т11 | 45 | LCF78-50J (7/8 FOAM) | 160.00 140.00 - | 0.6000 | 0.6000 |
| T12 | 1 | 1 5/8 | 145.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 2 | 1 5/8 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 3 | 1 5/8" Hybriflex | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 4 | LC78-50JA-A7 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 5 | LC78-50JA-A7 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 6 | LDF4-50A (1/2 FOAM) | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 7 | LC78-50JA-A7 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 8 | LC78-50JA-A7 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 9 | LC78-50JA-A7 | 137.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 14 | AVA7-50 (1-5/8 LOW | 134.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 15 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 16 | DENSI. FOAM) AVA7-50 (1-5/8 LOW DENSI. FOAM) | 140.00 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 18 | AVA7-50 (1-5/8 LOW DENSI, FOAM) | 140.00 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 19 | AVA7-50 (1-5/8 LOW DENSI, FOAM) | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 20 | AVA7-50 (1-5/8 LOW DENSI, FOAM) | 140.00 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 21 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 22 | LDF4-50A (1/2 FOAM) | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 23 | LC78-50JA-A7 | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 25 | LC78-50JA-A7 | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 26 | LC78-50JA-A7 | | 0.6000 | 0.6000 |

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| | 21007.82 - Colchester | 22 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | Mariaan | Designed by |
| | Verizon | |

| Tower | Feed Line | Description | Feed Line | Ka | Ka |
|---------|------------|--|------------------------------|--------|--------|
| Section | Record No. | | Segment Elev. 140.00 | No Ice | Ice |
| T12 | 28 | LC78-50JA-A7 | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 29 | LC78-50JA-A7 | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 30 | 1/2 | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 31 | 1/2 | 120.00 - | 0.6000 | 0.6000 |
| T12 | 32 | LC78-50JA-A7 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 33 | 1/2 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 34 | 1/2 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 35 | LC78-50JA-A7 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 36 | LC78-50JA-A7 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 39 | EW63 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 41 | 1-5/8" Fiber Optic CaBLE | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 42 | 1/2 | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 44 | LCF78-50J (7/8 FOAM) | 140.00 120.00 - | 0.6000 | 0.6000 |
| T12 | 45 | LCF78-50J (7/8 FOAM) | 140.00 120.00 - | 0.6000 | 0.6000 |
| T13 | 1 | 1 5/8 | 140.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 2 | 1 5/8 | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 3 | 1 5/8" Hybriflex | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 4 | LC78-50JA-A7 | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 5 | LC78-50JA-A7 | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 6 | LDF4-50A (1/2 FOAM) | 120.00 100.00 - | 0.6000 | 0.6000 |
| Т13 | 7 | LC78-50JA-A7 | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 8 | LC78-50JA-A7 | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 9 | LC78-50JA-A7 | 120.00 100.00 - 120.00 | 0.6000 | 0.6000 |
| T13 | 14 | AVA7-50 (1-5/8 LOW | 100.00 - | 0.6000 | 0.6000 |
| T13 | 15 | DENSI. FOAM) AVA7-50 (1-5/8 LOW DENSI. FOAM) | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 16 | DENSI. FOAM) AVA7-50 (1-5/8 LOW DENSI. FOAM) | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 18 | DENSI. FOAM) AVA7-50 (1-5/8 LOW DENSI. FOAM) | 120.00 100.00 - 120.00 | 0.6000 | 0.6000 |
| T13 | 19 | AVA7-50 (1-5/8 LOW | 120.00 100.00 - 120.00 | 0.6000 | 0.6000 |
| T13 | 20 | DENSI. FOAM) AVA7-50 (1-5/8 LOW DENSI. FOAM) | 120.00 100.00 - | 0.6000 | 0.6000 |
| T13 | 21 | DENSI. FOAM) AVA7-50 (1-5/8 LOW DENSI. FOAM) | 120.00 100.00 - 120.00 | 0.6000 | 0.6000 |
| T13 | 22 | , | | 0.6000 | 0.6000 |

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| | 21007.82 - Colchester | 23 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | | Designed by |
| Verizon | | TJL |

| Tower | Feed Line | Description | Feed Line | Ka | Ka |
|------------|------------|--------------------------|--------------------------|-----------|--------|
| Section | Record No. | Description | Segment Elev. | No Ice | Ice |
| ~~~~~ | | | 120.00 | | |
| T13 | 23 | LC78-50JA-A7 | 100.00 - | 0.6000 | 0.6000 |
| | | | 120.00 | | |
| T13 | 24 | WE65 | 100.00 - | 0.6000 | 0.6000 |
| | | | 106.00 | | |
| T13 | 25 | LC78-50JA-A7 | 100.00 - | 0.6000 | 0.6000 |
| | | | 120.00 | | |
| T13 | 26 | LC78-50JA-A7 | 100.00 - | 0.6000 | 0.6000 |
| | | | 120.00 | | |
| T13 | 27 | WE108 | 100.00 - | 0.6000 | 0.6000 |
| | | | 113.00 | | |
| T13 | 28 | LC78-50JA-A7 | 100.00 - | 0.6000 | 0.6000 |
| | • | | 120.00 | 0 < 0 0 0 | 0.0000 |
| T13 | 29 | LC78-50JA-A7 | 100.00 - | 0.6000 | 0.6000 |
| T12 | 20 | 1/2 | 120.00 | 0 (000 | 0 (000 |
| T13 | 30 | 1/2 | 100.00 - | 0.6000 | 0.6000 |
| Т13 | 31 | 1/2 | 120.00 100.00 - | 0.6000 | 0.6000 |
| 115 | 51 | 1/2 | 120.00 | 0.0000 | 0.6000 |
| T13 | 32 | LC78-50JA-A7 | 100.00 - | 0.6000 | 0.6000 |
| 115 | 52 | LC/8-50JA-A/ | 120.00 | 0.0000 | 0.0000 |
| T13 | 33 | 1/2 | 100.00 - | 0.6000 | 0.6000 |
| 115 | 55 | 1/2 | 120.00 | 0.0000 | 0.0000 |
| T13 | 34 | 1/2 | 100.00 - | 0.6000 | 0.6000 |
| 115 | 21 | ., <u>-</u> | 120.00 | 0.00000 | 0.0000 |
| T13 | 35 | LC78-50JA-A7 | 100.00 - | 0.6000 | 0.6000 |
| | | | 120.00 | | |
| T13 | 36 | LC78-50JA-A7 | 100.00 - | 0.6000 | 0.6000 |
| | | | 120.00 | | |
| T13 | 39 | EW63 | 100.00 - | 0.6000 | 0.6000 |
| | | | 120.00 | | |
| T13 | 41 | 1-5/8" Fiber Optic CaBLE | 100.00 - | 0.6000 | 0.6000 |
| | | | 120.00 | | |
| T13 | 42 | 1/2 | 100.00 - | 0.6000 | 0.6000 |
| | | | 120.00 | | |
| T13 | 44 | LCF78-50J (7/8 FOAM) | 100.00 - | 0.6000 | 0.6000 |
| T12 | 4.5 | | 120.00 | 0 (000 | 0.0000 |
| T13 | 45 | LCF78-50J (7/8 FOAM) | 100.00 - | 0.6000 | 0.6000 |
| T14 | 1 | 1.5/0 | 120.00 80.00 - 100.00 | 0.6000 | 0.6000 |
| T14 T14 | 1 | 1 5/8 | | 0.6000 | 0.6000 |
| T14 T14 | 2 3 | 1 5/8" Hybriflex | | 0.6000 | 0.6000 |
| T14 T14 | 3 4 | LC78-50JA-A7 | 80.00 - 100.00 | 0.6000 | 0.6000 |
| T14 | 5 | LC78-50JA-A7 | 80.00 - 100.00 | 0.6000 | 0.6000 |
| T14 | 6 | LDF4-50A (1/2 FOAM) | | 0.6000 | 0.6000 |
| T14 | 7 | LC78-50JA-A7 | | 0.6000 | 0.6000 |
| T14 | 8 | LC78-50JA-A7 | | 0.6000 | 0.6000 |
| T14 | 9 | LC78-50JA-A7 | 80.00 - 100.00 | 0.6000 | 0.6000 |
| T14 | 12 | LC78-50JA-A7 | 80.00 - 91.00 | 0.6000 | 0.6000 |
| T14 | 13 | LC78-50JA-A7 | 80.00 - 90.00 | 0.6000 | 0.6000 |
| T14 | 14 | AVA7-50 (1-5/8 LOW | 80.00 - 100.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T14 | 15 | AVA7-50 (1-5/8 LOW | 80.00 - 100.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T14 | 16 | AVA7-50 (1-5/8 LOW | 80.00 - 100.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T14 | 18 | AVA7-50 (1-5/8 LOW | 80.00 - 100.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T14 | 19 | AVA7-50 (1-5/8 LOW | 80.00 - 100.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T14 | 20 | AVA7-50 (1-5/8 LOW | | 0.6000 | 0.6000 |
| I I | I I | DENSI. FOAM) | | | I |
| | | | | | |

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| | 21007.82 - Colchester | 24 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | Marinar | Designed by |
| Verizon | | TJL |

| Tower Section | Feed Line Record No. | Description | Feed Line Segment Elev. | K _a No Ice | K _a Ice |
|------------------|-------------------------|-------------------------------------|---|--------------------------|-----------------------|
| T14 | 21 | AVA7-50 (1-5/8 LOW | 80.00 - 100.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T14 | 22 | LDF4-50A (1/2 FOAM) | | 0.6000 | 0.6000 |
| T14 | 23 | LC78-50JA-A7 | 80.00 - 100.00 | 0.6000 | 0.6000 |
| T14 | 24 | WE65 | | 0.6000 | 0.6000 |
| T14 | 25 | LC78-50JA-A7 | | $0.6000 \\ 0.6000$ | 0.6000 |
| T14 T14 | 26 27 | LC78-50JA-A7 WE108 | | 0.6000 | $0.6000 \\ 0.6000$ |
| T14 | 28 | LC78-50JA-A7 | | 0.6000 | 0.6000 |
| T14 | 29 | LC78-50JA-A7 | | 0.6000 | 0.6000 |
| T14 | 30 | 1/2 | | 0.6000 | 0.6000 |
| T14 | 31 | 1/2 | | 0.6000 | 0.6000 |
| T14 | 32 | LC78-50JA-A7 | | 0.6000 | 0.6000 |
| T14 | 33 | 1/2 | | 0.6000 | 0.6000 |
| T14 | 34 | 1/2 | | 0.6000 | 0.6000 |
| T14 | 35 | LC78-50JA-A7 | | 0.6000 | 0.6000 |
| T14 T14 | 36 39 | LC78-50JA-A7 EW63 | 80.00 - 100.00 80.00 - 100.00 | $0.6000 \\ 0.6000$ | $0.6000 \\ 0.6000$ |
| T14 | 41 | 1-5/8" Fiber Optic CaBLE | | 0.6000 | 0.6000 |
| T14 | 41 | 1-5/8 Fiber Optic Cable 1/2 | 80.00 - 100.00 | 0.6000 | 0.6000 |
| T14 | 44 | LCF78-50J (7/8 FOAM) | 80.00 - 100.00 | 0.6000 | 0.6000 |
| T14 | 45 | LCF78-50J (7/8 FOAM) | 80.00 - 100.00 | 0.6000 | 0.6000 |
| T15 | 1 | 1 5/8 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 2 | 1 5/8 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 3 | 1 5/8" Hybriflex | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 4 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 5 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 T15 | 6 7 | LDF4-50A (1/2 FOAM) LC78-50JA-A7 | 60.00 - 80.00 60.00 - 80.00 | $0.6000 \\ 0.6000$ | $0.6000 \\ 0.6000$ |
| T15 | 8 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 9 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 12 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 13 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 14 | AVA7-50 (1-5/8 LOW | 60.00 - 80.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T15 | 15 | AVA7-50 (1-5/8 LOW | 60.00 - 80.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 0 5000 | |
| T15 | 16 | AVA7-50 (1-5/8 LOW | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 10 | DENSI. FOAM) AVA7-50 (1-5/8 LOW | 60.00 - 80.00 | 0.6000 | 0.6000 |
| 115 | 18 | DENSI. FOAM) | 60.00 - 80.00 | 0.0000 | 0.0000 |
| T15 | 19 | AVA7-50 (1-5/8 LOW | 60.00 - 80.00 | 0.6000 | 0.6000 |
| 115 | 15 | DENSI. FOAM) | 00.00 - 00.00 | 0.0000 | 0.0000 |
| T15 | 20 | AVA7-50 (1-5/8 LOW | 60.00 - 80.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T15 | 21 | AVA7-50 (1-5/8 LOW | 60.00 - 80.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T15 | 22 | LDF4-50A (1/2 FOAM) | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 23 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 24 | WE65 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 T15 | 25 26 | LC78-50JA-A7 LC78-50JA-A7 | 60.00 - 80.00 60.00 - 80.00 | $0.6000 \\ 0.6000$ | $0.6000 \\ 0.6000$ |
| T15 T15 | 20 27 | UC/8-50JA-A/ WE108 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 28 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 29 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 30 | 1/2 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 31 | 1/2 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 32 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 33 | 1/2 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 34 | 1/2 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 35 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 36 | LC78-50JA-A7 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| | | | | | |

tnxTower

| | Job | | Page |
|---|---------|--------------------------------|--------------------|
| | | 21007.82 - Colchester | 25 of 96 |
| | Project | | Date |
| • | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | Verizon | Designed by TJL |

| Tower | Feed Line | Description | Feed Line | K_a | K_a |
|------------|------------|--|--------------------------------|--------------------|--------------------|
| Section | Record No. | * | Segment Elev. | No Ice | Ice |
| T15 | 39 | EW63 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 41 | 1-5/8" Fiber Optic CaBLE | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 42 | 1/2 | 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 | 44 | LCF78-50J (7/8 FOAM) LCF78-50J (7/8 FOAM) | 60.00 - 80.00 60.00 - 80.00 | 0.6000 | 0.6000 |
| T15 T16 | 45 | () | 60.00 - 80.00 30.00 - 60.00 | 0.6000 0.6000 | $0.6000 \\ 0.6000$ |
| T16 | 1 2 | 1 5/8 1 5/8 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 3 | 1 5/8" Hybriflex | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 4 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 5 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 6 | LDF4-50A (1/2 FOAM) | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 7 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 8 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 9 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 12 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 13 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 14 | AVA7-50 (1-5/8 LOW | 30.00 - 60.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | 0 < 0 0 0 | 0.0000 |
| T16 | 15 | AVA7-50 (1-5/8 LOW | 30.00 - 60.00 | 0.6000 | 0.6000 |
| -T12 | 17 | DENSI. FOAM) | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 16 | AVA7-50 (1-5/8 LOW DENSI. FOAM) | 50.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 18 | AVA7-50 (1-5/8 LOW | 30.00 - 60.00 | 0.6000 | 0.6000 |
| 110 | 10 | DENSI. FOAM) | 50.00 - 00.00 | 0.0000 | 0.0000 |
| T16 | 19 | AVA7-50 (1-5/8 LOW | 30.00 - 60.00 | 0.6000 | 0.6000 |
| 110 | | DENSI. FOAM) | 20.00 00.00 | 0.0000 | 0.0000 |
| T16 | 20 | AVA7-50 (1-5/8 LOW | 30.00 - 60.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T16 | 21 | AVA7-50 (1-5/8 LOW | 30.00 - 60.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T16 | 22 | LDF4-50A (1/2 FOAM) | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 23 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 24 | WE65 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 25 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 T16 | 26 27 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 27 | WE108 LC78-50JA-A7 | 30.00 - 60.00 30.00 - 60.00 | $0.6000 \\ 0.6000$ | $0.6000 \\ 0.6000$ |
| T16 | 28 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 30 | 1/2 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 31 | 1/2 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 32 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 33 | 1/2 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 34 | 1/2 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 35 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 36 | LC78-50JA-A7 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 39 | EW63 | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 41 | 1-5/8" Fiber Optic CaBLE | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 | 42 | 1/2 LCE78 501 (7/8 EO AM) | 30.00 - 60.00 | 0.6000 | 0.6000 |
| T16 T16 | 44 45 | LCF78-50J (7/8 FOAM) LCF78-50J (7/8 FOAM) | 30.00 - 60.00 30.00 - 60.00 | $0.6000 \\ 0.6000$ | $0.6000 \\ 0.6000$ |
| T10 T17 | 45 1 | 1 5/8 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 2 | 1 5/8 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 3 | 1 5/8" Hybriflex | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 4 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 5 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 6 | LDF4-50A (1/2 FOAM) | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 7 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 8 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 9 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 12 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 13 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 14 | AVA7-50 (1-5/8 LOW | 5.00 - 30.00 | 0.6000 | 0.6000 |
| | | | | | |

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Centek Engi 63-2 North E Branford, Phone: (202 FAX: (203)

| Tower | Job | 21007.82 - Colchester | Page 26 of 96 |
|--|---------|--------------------------------|---------------------------|
| gineering Inc. h Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| d, CT 06405 203) 488-0580 23) 488-8587 | Client | Verizon | Designed by TJL |

| Tower | Feed Line | Description | Feed Line | Ka | Ka |
|---------|------------|--------------------------|---------------|--------|--------|
| Section | Record No. | - | Segment Elev. | No Ice | Ice |
| | | DENSI. FOAM) | | | |
| T17 | 15 | AVA7-50 (1-5/8 LOW | 5.00 - 30.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T17 | 16 | AVA7-50 (1-5/8 LOW | 5.00 - 30.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T17 | 18 | AVA7-50 (1-5/8 LOW | 5.00 - 30.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T17 | 19 | AVA7-50 (1-5/8 LOW | 5.00 - 30.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T17 | 20 | AVA7-50 (1-5/8 LOW | 5.00 - 30.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T17 | 21 | AVA7-50 (1-5/8 LOW | 5.00 - 30.00 | 0.6000 | 0.6000 |
| | | DENSI. FOAM) | | | |
| T17 | 22 | LDF4-50A (1/2 FOAM) | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 23 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 24 | WE65 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 25 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 26 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 27 | WE108 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 28 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 29 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 30 | 1/2 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 31 | 1/2 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 32 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 33 | 1/2 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 34 | 1/2 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 35 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 36 | LC78-50JA-A7 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 39 | EW63 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 41 | 1-5/8" Fiber Optic CaBLE | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 42 | 1/2 | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 44 | LCF78-50J (7/8 FOAM) | 5.00 - 30.00 | 0.6000 | 0.6000 |
| T17 | 45 | LCF78-50J (7/8 FOAM) | 5.00 - 30.00 | 0.6000 | 0.6000 |

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 | O | ft | | ft ² | ft ² | lb |
| CSP Antenna Inventory - a Eastern Communications Climb/Mapping | | | | | | | | | |
| PD688S-4 (ECI-66) | С | From Leg | 0.50 0.00 0.00 | 0.0000 | 94.00 | No Ice 1/2" Ice 1" Ice | 0.35 0.63 0.91 | 0.35 0.63 0.91 | 3.75 4.88 6.00 |
| 4'x4" Pipe Mount (ECI-66) | С | From Leg | $0.00 \\ 0.00 \\ 0.00$ | 0.0000 | 94.00 | No Ice 1/2" Ice 1" Ice | 1.03 1.58 1.84 | 1.03 1.58 1.84 | 44.00 56.99 73.03 |
| rirod 4' Side Mount Standoff (1) (ECI-62) | В | From Leg | $0.00 \\ 0.00 \\ 0.00$ | 0.0000 | 106.00 | No Ice 1/2" Ice 1" Ice | 2.72 4.91 7.10 | 2.72 4.91 7.10 | 50.00 89.00 128.00 |

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Centek Er 63-2 Nor Branfo Phone: (FAX: (2

| Tana | Job | | Page |
|--|---------|--------------------------------|---------------------------|
| cTower | | 27 of 96 | |
| Engineering Inc. Forth Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| ford, CT 06405 : (203) 488-0580 (203) 488-8587 | Client | Verizon | Designed by TJL |
| | | | |

| Description | Face or | Offset Type | Offsets: Horz | Azimuth Adjustment | Placement | | $C_A A_A$ Front | $C_A A_A$ Side | Weight |
|---|------------|----------------|------------------|-----------------------|-----------|---------------------|--------------------|-------------------|----------------|
| | Leg | | Lateral | | | | | | |
| | | | Vert | 0 | G | | c2 | ft^2 | 11. |
| | | | ft ft | - | ft | | ft^2 | Jt | lb |
| | | | ft | | | | | | |
| PD458 | в | From Leg | 3.00 | 0.0000 | 106.00 | No Ice | 2.88 | 2.88 | 20.00 |
| (ECI-62) | | | 0.00 | | | 1/2" Ice | 4.34 | 4.34 | 46.22 |
| 5'3"x4" Pipe Mount | А | From Leg | $0.00 \\ 0.00$ | 0.0000 | 107.00 | 1" Ice No Ice | 5.83 1.39 | 5.83 1.39 | 77.59 57.00 |
| (ECI-63 (Dish Support)) | A | FIOII Leg | 0.00 | 0.0000 | 107.00 | 1/2" Ice | 2.21 | 2.21 | 73.81 |
| (Let-05 (Dian Support)) | | | 0.00 | | | 1" Ice | 2.54 | 2.54 | 94.43 |
| 8' Wide Ice Shield (for Dish | А | From Leg | 0.00 | 0.0000 | 115.00 | No Ice | 8.34 | 4.76 | 400.00 |
| Antennas) (Assume Ca=2.0) | | U | 0.00 | | | 1/2" Ice | 11.01 | 6.71 | 756.25 |
| (ECI-63a (Dish Ice Shield)) | | | 0.00 | | | 1" Ice | 13.59 | 8.62 | 1103.65 |
| 3' Wide Ice Shield (for Dish | С | From Leg | 0.00 | 0.0000 | 117.00 | No Ice | 8.34 | 4.76 | 400.00 |
| Antennas) (Assume Ca=2.0) | | | 0.00 | | | 1/2" Ice | 11.01 | 6.71 | 756.25 |
| (ECI-61a) | a | D | 0.00 | 0.0000 | 110.00 | 1" Ice | 13.59 | 8.62 | 1103.65 |
| 5'3"x4" Pipe Mount | С | From Leg | 0.00 | 0.0000 | 112.00 | No Ice | 1.39 | 1.39 | 57.00 |
| (ECI-61a (Dish Support)) | | | $0.00 \\ 0.00$ | | | 1/2" Ice 1" Ice | 2.21 2.54 | 2.21 2.54 | 73.81 94.43 |
| DB212-1 | С | From Leg | 6.00 | 0.0000 | 139.00 | No Ice | 4.40 | 4.40 | 31.00 |
| (ECI-59) | C | 110m Leg | 0.00 | 0.0000 | 159.00 | 1/2" Ice | 8.42 | 8.42 | 70.21 |
| | | | 0.00 | | | 1" Ice | 12.45 | 12.45 | 134.11 |
| 4' Side Mount Standoff | С | From Leg | 0.00 | 0.0000 | 139.00 | No Ice | 6.50 | 6.50 | 100.00 |
| (ECI-60 & 59) | | C | 0.00 | | | 1/2" Ice | 8.50 | 8.50 | 170.00 |
| | | | 0.00 | | | 1" Ice | 10.50 | 10.50 | 240.00 |
| PD156S | С | From Leg | 6.00 | 0.0000 | 139.00 | No Ice | 0.44 | 0.44 | 5.00 |
| (ECI-60) | | | 0.00 | | | 1/2" Ice | 0.79 | 0.79 | 6.50 |
| | ~ | | 0.00 | | | 1" Ice | 1.14 | 1.14 | 8.00 |
| 5'3"x4" Pipe Mount | С | From Leg | 0.00 | 0.0000 | 154.00 | No Ice | 1.37 | 1.37 | 57.00 |
| (ECI-58a (Dish Support)) | | | $0.00 \\ 0.00$ | | | 1/2" Ice 1" Ice | 2.21 2.54 | 2.21 2.54 | 73.81 94.43 |
| ANT450F6 | А | From Leg | 0.00 | 0.0000 | 153.00 | No Ice | 2.34 1.90 | 2.34 | 8.00 |
| (ECI-57) | А | From Leg | 0.00 | 0.0000 | 155.00 | 1/2" Ice | 2.73 | 2.73 | 22.34 |
| | | | 0.00 | | | 1" Ice | 3.40 | 3.40 | 41.96 |
| 5'3"x4" Pipe Mount | А | From Leg | 0.00 | 0.0000 | 153.00 | No Ice | 1.37 | 1.37 | 57.00 |
| (ECI-57) | | C | 0.00 | | | 1/2" Ice | 2.21 | 2.21 | 73.81 |
| | | | 0.00 | | | 1" Ice | 2.54 | 2.54 | 94.43 |
| L-810 Obstruction Lighting | А | From Leg | 0.25 | 0.0000 | 164.00 | No Ice | 0.36 | 0.36 | 6.65 |
| (1) | | | 0.00 | | | 1/2" Ice | 0.52 | 0.52 | 12.44 |
| (ECI-56) | | | 0.00 | | | 1" Ice | 0.70 | 0.70 | 19.93 |
| L-810 Obstruction Lighting | В | From Leg | 0.25 | 0.0000 | 168.00 | No Ice 1/2'' Ice | 0.36 | 0.36 | 6.65 |
| (1) (ECI-54) | | | $0.00 \\ 0.00$ | | | 172 Ice | 0.52 0.70 | 0.52 0.70 | 12.44 19.93 |
| L-810 Obstruction Lighting | С | From Leg | 0.00 | 0.0000 | 165.00 | No Ice | 0.36 | 0.36 | 6.65 |
| (1) | C | 110m Leg | 0.00 | 0.0000 | 105.00 | 1/2" Ice | 0.50 | 0.52 | 12.44 |
| (ECI-55) | | | 0.00 | | | 1" Ice | 0.70 | 0.70 | 19.93 |
| DB586-Y (inverted) | в | From Leg | 4.00 | 0.0000 | 175.00 | No Ice | 1.01 | 1.01 | 8.25 |
| (ECI-53) | | | 0.00 | | | 1/2" Ice | 1.28 | 1.28 | 16.59 |
| | | | 0.00 | | | 1" Ice | 1.56 | 1.56 | 28.01 |
| Pirod 4' Side Mount Standoff | В | From Leg | 0.00 | 0.0000 | 176.00 | No Ice | 2.72 | 2.72 | 50.00 |
| (1) | | | 0.00 | | | 1/2" Ice | 4.91 | 4.91 | 89.00 |
| (ECI-53,52,51) 430-94C-09168-M-11048 | р | Erom Log | 0.00 | 0.0000 | 176.00 | 1" Ice No Ice | 7.10 | 7.10 | 128.00 |
| 430-94C-09168-M-11048 TTA | В | From Leg | 2.00 0.00 | 0.0000 | 176.00 | No Ice 1/2'' Ice | 1.63 1.81 | 0.95 1.09 | 30.00 37.44 |
| (ECI-52) | | | 0.00 | | | 172 Ice | 1.81 | 1.09 | 52.22 |
| (ECI-52) DB586-Y | В | From Leg | 4.00 | 0.0000 | 177.00 | No Ice | 1.01 | 1.01 | 8.25 |
| (ECI-51) | | 110111 1108 | 0.00 | 0.0000 | ~ | 1/2" Ice | 1.28 | 1.28 | 16.59 |
| (/ | | | 0.00 | | | 1" Ice | 1.56 | 1.56 | 28.01 |
| 1151-3 | С | From Leg | 3.00 | 0.0000 | 179.00 | No Ice | 4.18 | 4.18 | 16.00 |
| (ECI-50) | | 2 | 0.00 | | | 1/2" Ice | 5.73 | 5.73 | 46.53 |
| | | | 0.00 | | | 1" Ice | 7.30 | 7.30 | 86.79 |

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| xTower | Job 21007.82 - Colchester | Page 28 of 96 |
|---|---|---------------------------|
| k Engineering Inc. North Branford Rd. | Project 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| anford, CT 06405 ne: (203) 488-0580 X: (203) 488-8587 | Client Verizon | Designed by TJL |

| LegPirod 4' Side Mount Standoff (1) (ECI-50)C (1) (ECI-50) $531-70HD$ Exposed Dipole A Antenna (ECI-15)A (ECI-15)6' Side Mount Standoff (ECI-14)C (ECI-14)6' Side Mount Standoff (ECI-14)C (ECI-14)6' Side Mount Standoff (ECI-14)C (ECI-13)SC479-HF1LDF(D00I-E6085 (ECI-13)B (ECI-12) Sabre T-Boom (1) (ECI-10,11,12,13)430-94C-09168-M-11048 (ECI-10)B (ECI-10)6' Side Mount Standoff (ECI-10)B (ECI-10)6' Side Mount Standoff (ECI-10)B SC479-HF1LDF (ECI-10)6' Side Mount Standoff (ECI-8)B (ECI-8)9D440-2 (ECI-8)B (ECI-8)SC479-HF1LDF(D00I-E6085 (Inverted) (ECI-70)C C (Inverted) | From Leg From Leg From Leg From Leg From Leg From Leg From Leg From Leg | Lateral Vert ft ft ft 0.00 0.0 | 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | <i>ft</i> 179.00 238.00 238.00 248.00 248.00 245.00 245.00 | No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice | ft^2 2.72 4.91 7.10 5.91 7.68 9.47 6.50 8.50 10.50 1.32 3.21 5.12 6.50 8.50 10.50 5.06 6.54 8.04 5.06 | ft^2 2.72 4.91 7.10 5.91 7.68 9.47 6.50 8.50 10.50 1.32 3.21 5.12 6.50 8.50 10.50 5.06 6.54 8.04 | <i>lb</i> 50.00 89.00 128.00 50.00 79.03 125.80 100.00 170.00 240.00 10.00 23.85 49.42 100.00 170.00 240.00 34.00 69.82 114.98 |
|---|--|--|--|---|--|---|---|--|
| (1) (ECI-50) 531-70HD Exposed Dipole A Antenna (ECI-15) 6' Side Mount Standoff A (ECI-15) 6' Side Mount Standoff C (ECI-14) 6' Side Mount Standoff C (ECI-14) 6' Side Mount Standoff C (ECI-14) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-13) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg From Leg From Leg From Leg From Leg From Leg | $\begin{array}{c} ft\\ft\\ft\\0.00\\0.00\\0.00\\0.00\\0.00\\0.00\\0$ | 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | 179.00 238.00 238.00 248.00 248.00 245.00 | 1/2" Ice 1" Ice No Ice 1/2" Ice | 2.72 4.91 7.10 5.91 7.68 9.47 6.50 8.50 10.50 1.32 3.21 5.12 6.50 8.50 10.50 5.06 6.54 8.04 | $\begin{array}{c} 2.72 \\ 4.91 \\ 7.10 \\ 5.91 \\ 7.68 \\ 9.47 \\ 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \end{array}$ | 50.00 89.00 128.00 50.00 79.03 125.80 100.00 170.00 240.00 10.00 23.85 49.42 100.00 170.00 240.00 34.00 69.82 |
| (1) (ECI-50) 531-70HD Exposed Dipole A Antenna (ECI-15) 6' Side Mount Standoff A (ECI-15) 6' Side Mount Standoff C (ECI-14) 6' Side Mount Standoff C (ECI-14) 6' Side Mount Standoff C (ECI-14) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-13) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg From Leg From Leg From Leg From Leg From Leg | ft 0.00 | 0.0000 0.0000 0.0000 0.0000 0.0000 | 238.00 238.00 248.00 248.00 245.00 | 1/2" Ice 1" Ice No Ice 1/2" Ice | $\begin{array}{c} 4.91 \\ 7.10 \\ 5.91 \\ 7.68 \\ 9.47 \\ 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \\ 8.04 \end{array}$ | $\begin{array}{c} 4.91 \\ 7.10 \\ 5.91 \\ 7.68 \\ 9.47 \\ 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \end{array}$ | 89.00 128.00 50.00 79.03 125.80 100.00 170.00 240.00 10.00 23.85 49.42 100.00 170.00 240.00 34.00 69.82 |
| (1) (ECI-50) 531-70HD Exposed Dipole A Antenna (ECI-15) 6' Side Mount Standoff A (ECI-15) 6' Side Mount Standoff C (ECI-14) 6' Side Mount Standoff C (ECI-14) 6' Side Mount Standoff C (ECI-14) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg From Leg From Leg From Leg From Leg From Leg | $\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 3.00\\ 0.00\\$ | 0.0000 0.0000 0.0000 0.0000 0.0000 | 238.00 238.00 248.00 248.00 245.00 | 1/2" Ice 1" Ice No Ice 1/2" Ice | $\begin{array}{c} 4.91 \\ 7.10 \\ 5.91 \\ 7.68 \\ 9.47 \\ 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \\ 8.04 \end{array}$ | $\begin{array}{c} 4.91 \\ 7.10 \\ 5.91 \\ 7.68 \\ 9.47 \\ 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \end{array}$ | 89.00 128.00 50.00 79.03 125.80 100.00 170.00 240.00 10.00 23.85 49.42 100.00 170.00 240.00 34.00 69.82 |
| $\begin{array}{c c} (ECI-50) \\ 531-70HD Exposed Dipole \\ Antenna \\ (ECI-15) \\ 6' Side Mount Standoff \\ (ECI-15) \\ \hline \\ PD1142-1 \\ (ECI-14) \\ \hline \\ 6' Side Mount Standoff \\ (ECI-14) \\ \hline \\ 6' Side Mount Standoff \\ (ECI-14) \\ \hline \\ SC479-HF1LDF(D00I-E6085 \\) (Inverted) \\ (ECI-13) \\ SC479-HF1LDF(D00I-E6085 \\) (Inverted) \\ (ECI-12) \\ Sabre T-Boom (1) \\ (ECI-12) \\ Sabre T-Boom (1) \\ (ECI-10) \\ \hline \\ (ECI-10) \\ \hline \\ 430-94C-09168-M-11048 \\ TTA \\ (ECI-11) \\ SC479-HF1LDF \\ (ECI-10) \\ \hline \\ 6' Side Mount Standoff \\ (ECI-8) \\ \hline \\ PD440-2 \\ (ECI-8) \\ \hline \\ SC479-HF1LDF(D00I-E6085 \\) (Inverted) \\ \hline \\ \end{array}$ | From Leg From Leg From Leg From Leg From Leg | 0.00 6.00 0.00 | 0.0000 0.0000 0.0000 0.0000 0.0000 | 238.00 248.00 248.00 245.00 | 1" Ice No Ice 1/2" Ice 1" Ice No Ice | $\begin{array}{c} 7.10\\ 5.91\\ 7.68\\ 9.47\\ 6.50\\ 8.50\\ 10.50\\ 1.32\\ 3.21\\ 5.12\\ 6.50\\ 8.50\\ 10.50\\ 5.06\\ 6.54\\ 8.04 \end{array}$ | $\begin{array}{c} 7.10\\ 5.91\\ 7.68\\ 9.47\\ 6.50\\ 8.50\\ 10.50\\ 1.32\\ 3.21\\ 5.12\\ 6.50\\ 8.50\\ 10.50\\ 5.06\\ 6.54\end{array}$ | $\begin{array}{c} 128.00\\ 50.00\\ 79.03\\ 125.80\\ 100.00\\ 170.00\\ 240.00\\ 10.00\\ 23.85\\ 49.42\\ 100.00\\ 170.00\\ 240.00\\ 34.00\\ 69.82 \end{array}$ |
| $\begin{array}{c} 531-70 \mbox{HD} \mbox{Exposed Dipole} \\ Antenna \\ (ECI-15) \\ 6' \mbox{Side Mount Standoff} \\ (ECI-15) \\ \hline PD1142-1 \\ (ECI-14) \\ 6' \mbox{Side Mount Standoff} \\ (ECI-14) \\ 6' \mbox{Side Mount Standoff} \\ (ECI-14) \\ \hline SC479-\mbox{HF}1\mbox{LDF}(D001-\mbox{E6085} \mbox{B} \\) (Inverted) \\ (ECI-13) \\ \hline SC479-\mbox{HF}1\mbox{LDF}(D001-\mbox{E6085} \mbox{B} \\) (Inverted) \\ (ECI-12) \\ \mbox{Sabre T-Boom (1)} \\ (ECI-10) \\ \hline SC479-\mbox{HF}1\mbox{LDF}(D001-\mbox{E6085} \mbox{B} \\) (Inverted) \\ (ECI-10) \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{D01-}\mbox{B} \\ \hline SC479-\mbox{HF}1\mbox{LDF} \\ \hline B \\ (ECI-10) \\ \hline 6' \mbox{Side Mount Standoff} \\ (ECI-8) \\ \hline PD440-2 \\ (ECI-8) \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{D001-}\mbox{E6085} \mbox{C} \\) (Inverted) \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{D001-}\mbox{E6085} \mbox{B} \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{D001-}\mbox{E6085} \mbox{B} \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{D001-}\mbox{E6085} \mbox{B} \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{D001-}\mbox{E6085} \mbox{B} \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{D001-}\mbox{E6085} \mbox{C} \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{D001-}\mbox{E6085} \mbox{LF} \\ \hline SC479-\mbox{HF}1\mbox{LDF}(\mbox{LDF}(\mbox{LDF}(\mbox{LDF}(\mbox{LDF}(\mbox{LDF}(\mbox{LDF}(\mbox{LDF}(\mbox{LDF}(\m$ | From Leg From Leg From Leg From Leg From Leg | $ \begin{array}{c} 6.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 3.00\\ 0.00\\ 3.00\\ 0.00$ | 0.0000 0.0000 0.0000 0.0000 0.0000 | 238.00 248.00 248.00 245.00 | No Ice 1/2" Ice 1" Ice No Ice | 5.917.689.476.50 $8.5010.501.323.215.126.508.5010.505.066.548.04$ | $5.91 \\ 7.68 \\ 9.47 \\ 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \\ $ | $\begin{array}{c} 50.00\\ 79.03\\ 125.80\\ 100.00\\ 170.00\\ 240.00\\ 10.00\\ 23.85\\ 49.42\\ 100.00\\ 170.00\\ 240.00\\ 34.00\\ 69.82 \end{array}$ |
| Antenna (ECI-15) 6' Side Mount Standoff (ECI-15) PD1142-1 (ECI-14) 6' Side Mount Standoff (ECI-14) 6' Side Mount Standoff (ECI-14) SC479-HF1LDF(D001-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-10) 6' Side Mount Standoff (ECI-10) 6' Side Mount Standoff (ECI-8) PD440-2 (ECI-8) SC479-HF1LDF(D001-E6085 C) (Inverted) | From Leg From Leg From Leg From Leg From Leg | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.00 0.00 | 0.0000 0.0000 0.0000 0.0000 0.0000 | 238.00 248.00 248.00 245.00 | 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice | $\begin{array}{c} 7.68\\ 9.47\\ 6.50\\ 8.50\\ 10.50\\ 1.32\\ 3.21\\ 5.12\\ 6.50\\ 8.50\\ 10.50\\ 5.06\\ 6.54\\ 8.04 \end{array}$ | $7.68 \\ 9.47 \\ 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 $ | $\begin{array}{c} 79.03 \\ 125.80 \\ 100.00 \\ 170.00 \\ 240.00 \\ 10.00 \\ 23.85 \\ 49.42 \\ 100.00 \\ 170.00 \\ 240.00 \\ 34.00 \\ 69.82 \end{array}$ |
| $\begin{array}{c} (\mathrm{ECI}\text{-}15) \\ 6' \operatorname{Side} \operatorname{Mount} \operatorname{Standoff} \\ (\mathrm{ECI}\text{-}15) \end{array} \qquad A \\ \begin{array}{c} \mathrm{PD1142}\text{-}1 \\ (\mathrm{ECI}\text{-}14) \end{array} \qquad C \\ \end{array} \\ \begin{array}{c} \mathrm{PD1142}\text{-}1 \\ (\mathrm{ECI}\text{-}14) \end{array} \qquad C \\ \end{array} \\ \begin{array}{c} \mathrm{G}' \operatorname{Side} \operatorname{Mount} \operatorname{Standoff} \\ (\mathrm{ECI}\text{-}14) \end{array} \qquad C \\ \end{array} \\ \begin{array}{c} \mathrm{G}' \operatorname{Side} \operatorname{Mount} \operatorname{Standoff} \\ (\mathrm{ECI}\text{-}14) \end{array} \qquad B \\ \end{array} \\ \begin{array}{c} \mathrm{SC479}\text{-}\mathrm{HF1LDF}(\mathrm{D001}\text{-}\mathrm{E6085} \ B \\) (\mathrm{Inverted}) \\ (\mathrm{ECI}\text{-}13) \\ \mathrm{SC479}\text{-}\mathrm{HF1LDF}(\mathrm{D001}\text{-}\mathrm{E6085} \ B \\) (\mathrm{Inverted}) \\ (\mathrm{ECI}\text{-}12) \\ \mathrm{Sabre} \ T\text{-}\mathrm{Boom} \ (1) \qquad B \\ \end{array} \\ \begin{array}{c} \mathrm{GECI}\text{-}10 \\ \mathrm{GECI}\text{-}11) \\ \mathrm{SC479}\text{-}\mathrm{HF1LDF} \\ \mathrm{GECI}\text{-}10 \\ \mathrm{G}' \operatorname{Side} \operatorname{Mount} \operatorname{Standoff} \\ (\mathrm{ECI}\text{-}8) \\ \end{array} \\ \begin{array}{c} \mathrm{B} \\ \mathrm{GECI}\text{-}8 \\ \end{array} \\ \end{array} \\ \begin{array}{c} \mathrm{GECI}\text{-}8 \\ \mathrm{GECI}\text$ | From Leg From Leg From Leg From Leg | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.00 0.00 3.00 0.00 | 0.0000 0.0000 0.0000 0.0000 | 248.00 248.00 245.00 | 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice No Ice 1/2" Ice No Ice 1/2" Ice | 9.47 6.50 8.50 10.50 1.32 3.21 5.12 6.50 8.50 10.50 5.06 6.54 8.04 | $\begin{array}{c} 9.47 \\ 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \end{array}$ | $\begin{array}{c} 125.80\\ 100.00\\ 170.00\\ 240.00\\ 10.00\\ 23.85\\ 49.42\\ 100.00\\ 170.00\\ 240.00\\ 34.00\\ 69.82 \end{array}$ |
| 6' Side Mount Standoff (ECI-15) A PD1142-1 (ECI-14) C 6' Side Mount Standoff (ECI-14) C 6' Side Mount Standoff (ECI-14) C 5C479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-13) B SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) Sabre T-Boom (1) (ECI-10,11,12,13) B 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff (ECI-8) B PD440-2 (ECI-8) B SC479-HF1LDF(D00I-E6085 C) (Inverted) C | From Leg From Leg From Leg From Leg | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.00 0.00 3.00 0.00 | 0.0000 0.0000 0.0000 0.0000 | 248.00 248.00 245.00 | No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice No Ice 1/2" Ice No Ice 1/2" Ice | $\begin{array}{c} 6.50\\ 8.50\\ 10.50\\ 1.32\\ 3.21\\ 5.12\\ 6.50\\ 8.50\\ 10.50\\ 5.06\\ 6.54\\ 8.04 \end{array}$ | $\begin{array}{c} 6.50 \\ 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \end{array}$ | $\begin{array}{c} 100.00\\ 170.00\\ 240.00\\ 10.00\\ 23.85\\ 49.42\\ 100.00\\ 170.00\\ 240.00\\ 34.00\\ 69.82 \end{array}$ |
| (ECI-15) PD1142-1 (ECI-14) 6' Side Mount Standoff (ECI-14) SC479-HF1LDF(D001-E6085 B) (Inverted) (ECI-13) SC479-HF1LDF(D001-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D001-E6085 C) (Inverted) | From Leg From Leg From Leg From Leg | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.00 0.00 0.00 3.00 0.00 | 0.0000 0.0000 0.0000 0.0000 | 248.00 248.00 245.00 | 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice No Ice 1/2" Ice No Ice 1/2" Ice | 8.50 10.50 1.32 3.21 5.12 6.50 8.50 10.50 5.06 6.54 8.04 | $\begin{array}{c} 8.50 \\ 10.50 \\ 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \end{array}$ | $\begin{array}{c} 170.00\\ 240.00\\ 10.00\\ 23.85\\ 49.42\\ 100.00\\ 170.00\\ 240.00\\ 34.00\\ 69.82 \end{array}$ |
| PD1142-1 (ECI-14) C 6' Side Mount Standoff (ECI-14) C 6' Side Mount Standoff (ECI-14) C SC479-HF1LDF(D001-E6085 B) (Inverted) (ECI-13) B SC479-HF1LDF(D001-E6085 B) (Inverted) (ECI-12) B Sabre T-Boom (1) B (ECI-10,11,12,13) B 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF SC479-HF1LDF B (ECI-8) PD440-2 (ECI-8) SC479-HF1LDF(D001-E6085 C) (Inverted) C | From Leg From Leg From Leg | 0.00 6.00 0.00 0.00 0.00 0.00 3.00 0.00 3.00 0.00 | 0.0000 0.0000 0.0000 | 248.00 245.00 | 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice No Ice 1/2" Ice 1/2" Ice No Ice | 10.50 1.32 3.21 5.12 6.50 8.50 10.50 5.06 6.54 8.04 | 10.50 1.32 3.21 5.12 6.50 8.50 10.50 5.06 6.54 | 240.00 10.00 23.85 49.42 100.00 170.00 240.00 34.00 69.82 |
| (ECI-14) 6' Side Mount Standoff (ECI-14) C SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-13) B SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) B Sabre T-Boom (1) B (ECI-10,11,12,13) B 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff 6' Side Mount Standoff B (ECI-8) PD440-2 SC479-HF1LDF(D00I-E6085 C) (Inverted) C | From Leg From Leg From Leg | 6.00 0.00 0.00 0.00 0.00 3.00 0.00 3.00 0.00 | 0.0000 0.0000 0.0000 | 248.00 245.00 | 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice | $ \begin{array}{r} 1.32 \\ 3.21 \\ 5.12 \\ 6.50 \\ 8.50 \\ 10.50 \\ 5.06 \\ 6.54 \\ 8.04 \\ \end{array} $ | 1.32 3.21 5.12 6.50 8.50 10.50 5.06 6.54 | $10.00 \\ 23.85 \\ 49.42 \\ 100.00 \\ 170.00 \\ 240.00 \\ 34.00 \\ 69.82$ |
| 6' Side Mount Standoff (ECI-14) SC479-HF1LDF(D001-E6085 B) (Inverted) (ECI-13) SC479-HF1LDF(D001-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-10,11,12,13) 430-94C-09168-M-11048 B CECI-10) 6' Side Mount Standoff (ECI-10) 6' Side Mount Standoff (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D001-E6085 C) (Inverted) | From Leg From Leg | $\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 3.00\\ 0.00\\ 3.00\\ 0.00\\ 3.00\\ 0.00\\$ | 0.0000 0.0000 | 245.00 | 1" Ice No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice | 5.12 6.50 8.50 10.50 5.06 6.54 8.04 | 5.12 6.50 8.50 10.50 5.06 6.54 | 49.42 100.00 170.00 240.00 34.00 69.82 |
| (ECI-14) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-13) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg From Leg | $\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 3.00\\ 0.00\\ 3.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$ | 0.0000 0.0000 | 245.00 | No Ice 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice | 6.50 8.50 10.50 5.06 6.54 8.04 | 6.50 8.50 10.50 5.06 6.54 | 100.00 170.00 240.00 34.00 69.82 |
| (ECI-14) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-13) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg From Leg | 0.00 0.00 3.00 0.00 3.00 0.00 0.00 0.00 0.00 0.00 | 0.0000 0.0000 | 245.00 | 1/2" Ice 1" Ice No Ice 1/2" Ice 1" Ice No Ice | 8.50 10.50 5.06 6.54 8.04 | 8.50 10.50 5.06 6.54 | 170.00 240.00 34.00 69.82 |
| SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-13) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg | 0.00 3.00 0.00 3.00 0.00 0.00 0.00 0.00 0.00 | 0.0000 | | 1" Ice No Ice 1/2" Ice 1" Ice No Ice | 10.50 5.06 6.54 8.04 | 10.50 5.06 6.54 | 240.00 34.00 69.82 |
|) (Inverted) (ECI-13) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg | $\begin{array}{c} 3.00\\ 0.00\\ 0.00\\ 3.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$ | 0.0000 | | No Ice 1/2" Ice 1" Ice No Ice | 5.06 6.54 8.04 | 5.06 6.54 | 34.00 69.82 |
|) (Inverted) (ECI-13) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg | $\begin{array}{c} 0.00\\ 0.00\\ 3.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$ | 0.0000 | | 1/2" Ice 1" Ice No Ice | 6.54 8.04 | 6.54 | 69.82 |
| (ECI-13) SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) B 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff 6' Side Mount Standoff B (ECI-8) PD440-2 SC479-HF1LDF(D00I-E6085 C) (Inverted) C | - | $\begin{array}{c} 0.00\\ 3.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00 \end{array}$ | | 245.00 | 1" Ice No Ice | 8.04 | | |
| SC479-HF1LDF(D00I-E6085 B) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | - | 3.00 0.00 0.00 0.00 0.00 | | 245.00 | No Ice | | | 114.20 |
|) (Inverted) (ECI-12) Sabre T-Boom (1) B (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | - | $0.00 \\ 0.00 \\ 0.00 \\ 0.00$ | | 245.00 | | | 5.06 | 34.00 |
| (ECI-12) Sabre T-Boom (1) (ECI-10,11,12,13) 430-94C-09168-M-11048 TTA (ECI-11) SC479-HF1LDF 6' Side Mount Standoff (ECI-8) PD440-2 (ECI-8) SC479-HF1LDF(D00I-E6085) C) (Inverted) | From Leg | 0.00 0.00 0.00 | 0.0000 | | | 6.54 | 6.54 | 69.82 |
| Sabre T-Boom (1) (ECI-10,11,12,13) B 430-94C-09168-M-11048 TTA (ECI-11) SC479-HF1LDF (ECI-10) B 6' Side Mount Standoff (ECI-8) B PD440-2 (ECI-8) B SC479-HF1LDF(D00I-E6085) (Inverted) C | From Leg | $0.00 \\ 0.00$ | 0.0000 | | 1" Ice | 8.04 | 8.04 | 114.98 |
| (ECI-10,11,12,13) 430-94C-09168-M-11048 B TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | 0 | 0.00 | 0.0000 | 246.00 | No Ice | 35.40 | 35.40 | 471.00 |
| TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | | | | | 1/2" Ice | 46.90 | 46.90 | 690.00 |
| TTA (ECI-11) SC479-HF1LDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | | 0.00 | | | 1" Ice | 58.40 | 58.40 | 909.00 |
| (ECI-11) SC479-HF1LDF (ECI-10) 6' Side Mount Standoff (ECI-8) PD440-2 (ECI-8) SC479-HF1LDF(D00I-E6085) (Inverted) | From Leg | 2.00 | 0.0000 | 247.00 | No Ice | 1.63 | 0.95 | 30.00 |
| SC479-HFILDF B (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HFILDF(D00I-E6085 C) (Inverted) | | 0.00 | | | 1/2" Ice | 1.81 | 1.09 | 37.44 |
| (ECI-10) 6' Side Mount Standoff B (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | | 0.00 | | | 1" Ice | 1.99 | 1.24 | 52.22 |
| 6' Side Mount Standoff (ECI-8) PD440-2 (ECI-8) SC479-HF1LDF(D00I-E6085) (Inverted) | From Leg | 3.00 | 0.0000 | 251.00 | No Ice | 3.90 | 3.90 | 34.00 |
| (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | | 0.00 | | | 1/2" Ice | 6.54 | 6.54 | 69.82 |
| (ECI-8) PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | Enom Log | $0.00 \\ 0.00$ | 0.0000 | 260.00 | 1" Ice No Ice | 8.04 6.50 | 8.04 6.50 | 114.98 100.00 |
| PD440-2 B (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg | 0.00 | 0.0000 | 200.00 | 1/2" Ice | 8.50 | 8.50 | 170.00 |
| (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | | 0.00 | | | 1" Ice | 10.50 | 10.50 | 240.00 |
| (ECI-8) SC479-HF1LDF(D00I-E6085 C) (Inverted) | From Leg | 6.00 | 0.0000 | 264.00 | No Ice | 1.38 | 1.38 | 19.00 |
| SC479-HF1LDF(D00I-E6085 C) (Inverted) | 110111219 | 0.00 | 010000 | 201100 | 1/2" Ice | 2.48 | 2.48 | 24.70 |
|) (Inverted) | | 0.00 | | | 1" Ice | 3.59 | 3.59 | 30.40 |
| | From Leg | 6.00 | 0.0000 | 283.00 | No Ice | 5.06 | 5.06 | 34.00 |
| (ECL 7) | | 0.00 | | | 1/2" Ice | 6.54 | 6.54 | 69.82 |
| (ECI-7) | | 0.00 | | | 1" Ice | 8.04 | 8.04 | 114.98 |
| 6' Side Mount Standoff C | From Leg | 0.00 | 0.0000 | 284.00 | No Ice | 6.50 | 6.50 | 100.00 |
| (ECI-7) | | 0.00 | | | 1/2" Ice | 8.50 | 8.50 | 170.00 |
| DB809T3E-XC C | From Leg | 0.00 6.00 | 0.0000 | 286.00 | 1" Ice No Ice | 10.50 3.77 | 10.50 3.77 | 240.00 39.00 |
| (ECI-6) | From Leg | 0.00 | 0.0000 | 286.00 | 1/2'' Ice | 5.70 | 5.77 | 59.00 69.70 |
| (ECI-0) | | 0.00 | | | 172 Ice | 7.17 | 7.17 | 109.50 |
| PD340-1 A | From Leg | 6.00 | 0.0000 | 290.00 | No Ice | 3.30 | 3.30 | 40.00 |
| (ECI-5) | riom Deg | 0.00 | 010000 | 290100 | 1/2" Ice | 5.94 | 5.94 | 52.00 |
| | | 0.00 | | | 1" Ice | 8.58 | 8.58 | 64.00 |
| 6' Side Mount Standoff A | From Leg | 0.00 | 0.0000 | 290.00 | No Ice | 6.50 | 6.50 | 100.00 |
| (ECI-5) | | 0.00 | | | 1/2" Ice | 8.50 | 8.50 | 170.00 |
| | _ | 0.00 | | | 1" Ice | 10.50 | 10.50 | 240.00 |
| SC479-HF1LDF C | From Leg | 6.00 | 0.0000 | 300.00 | No Ice | 3.82 | 3.82 | 34.00 |
| (ECI-4) | | 0.00 | | | 1/2" Ice | 6.54 | 6.54 | 69.82 |
| (1014) Marriet Cr. 1. CC. C. | | 0.00 | 0.0000 | 200.00 | 1" Ice | 8.04 | 8.04 | 114.98 |
| 6' Side Mount Standoff C | р. т. | 0.00 | 0.0000 | 300.00 | No Ice | 6.50 | 6.50 | 100.00 |
| (ECI-4) | From Leg | $0.00 \\ 0.00$ | | | 1/2" Ice 1" Ice | 8.50 10.50 | 8.50 10.50 | 170.00 240.00 |

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Centek E 63-2 Not Branfo Phone: FAX: (.

| xTower | Job | 21007.82 - Colchester | Page 29 of 96 |
|--|---------|--------------------------------|---------------------------|
| Engineering Inc. Jorth Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| 1ford, CT 06405 2: (203) 488-0580 • (203) 488-8587 | Client | Verizon | Designed by TJL |

| Description | Face or | Offset Type | Offsets: Horz | Azimuth Adjustment | Placement | | $C_A A_A$ Front | $C_A A_A$ Side | Weight |
|--|------------|----------------|------------------|-----------------------|-----------|---------------------|--------------------|-------------------|-----------------|
| | Leg | • • | Lateral | | | | | | |
| | | | Vert | 0 | G | | 0 ² | c ² | 11 |
| | | | ft ft | 0 | ft | | ft^2 | ft^2 | lb |
| | | | ft | | | | | | |
| ANT450F6 | В | From Leg | 5.00 | 0.0000 | 318.00 | No Ice | 1.90 | 1.90 | 8.00 |
| (ECI-3) | | | 0.00 | | | 1/2" Ice 1" Ice | 2.73 | 2.73 | 22.34 |
| 4'x4" Pipe Mount | в | From Leg | $0.00 \\ 0.00$ | 0.0000 | 318.00 | No Ice | 3.40 0.98 | 3.40 0.98 | 41.96 44.00 |
| (ECI-3) | Б | FIOII Leg | 0.00 | 0.0000 | 516.00 | 1/2" Ice | 1.58 | 1.58 | 56.99 |
| (ECI-5) | | | 0.00 | | | 1" Ice | 1.84 | 1.84 | 73.03 |
| BA1012-0 | А | From Leg | 6.00 | 0.0000 | 320.00 | No Ice | 0.47 | 0.47 | 2.20 |
| (ECI-2) | | r tom Leg | 0.00 | 0.0000 | 520.00 | 1/2" Ice | 0.96 | 0.96 | 6.61 |
| (= == =) | | | 0.00 | | | 1" Ice | 1.31 | 1.31 | 14.14 |
| 6' Side Mount Standoff | Α | From Leg | 0.00 | 0.0000 | 320.00 | No Ice | 6.50 | 6.50 | 100.00 |
| (ECI-2) | | U | 0.00 | | | 1/2" Ice | 8.50 | 8.50 | 170.00 |
| | | | 0.00 | | | 1" Ice | 10.50 | 10.50 | 240.00 |
| PD128-1 | С | From Leg | 6.00 | 0.0000 | 325.00 | No Ice | 1.00 | 1.00 | 13.00 |
| (ECI-1) | | | 0.00 | | | 1/2" Ice | 1.80 | 1.80 | 16.90 |
| | | | 0.00 | | | 1" Ice | 2.60 | 2.60 | 20.80 |
| 6' Side Mount Standoff | С | From Leg | 0.00 | 0.0000 | 325.00 | No Ice | 6.50 | 6.50 | 100.00 |
| (ECI-1) | | | 0.00 | | | 1/2" Ice | 8.50 | 8.50 | 170.00 |
| | | | 0.00 | | | 1" Ice | 10.50 | 10.50 | 240.00 |
| Dual Lights | Α | None | | 0.0000 | 327.00 | No Ice | 4.00 | 4.00 | 250.00 |
| (Beacon) | | | | | | 1/2" Ice | 4.80 | 4.80 | 400.00 |
| T. I D. 15/0 4/ | G | N | | 0.0000 | 220.00 | 1" Ice | 5.60 | 5.60 | 550.00 |
| Lightning Rod 5/8x4' | С | None | | 0.0000 | 329.00 | No Ice | 0.25 | 0.25 | 31.00 |
| (Lightning Rod) | | | | | | 1/2" Ice | 0.66 | 0.66 | 33.82 |
| VZW Proposed 12/07/2018 | | | | | | 1" Ice | 0.97 | 0.97 | 39.29 |
| VZW Proposed 12/07/2018 almont VFA-10-U V-Frame | А | None | | 0.0000 | 232.00 | No Ice | 7.95 | 4.45 | 285.00 |
| (Verizon) | A | none | | 0.0000 | 232.00 | 1/2" Ice | 8.33 | 4.43 | 343.57 |
| (verizon) | | | | | | 172 Ice | 8.71 | 5.04 | 407.08 |
| /almont VFA-10-U V-Frame | В | None | | 0.0000 | 232.00 | No Ice | 7.95 | 4.45 | 285.00 |
| (Verizon) | D | rtone | | 0.0000 | 252.00 | 1/2" Ice | 8.33 | 4.74 | 343.57 |
| (verizon) | | | | | | 1" Ice | 8.71 | 5.04 | 407.08 |
| /almont VFA-10-U V-Frame | С | None | | 0.0000 | 232.00 | No Ice | 7.95 | 4.45 | 285.00 |
| (Verizon) | | | | | | 1/2" Ice | 8.33 | 4.74 | 343.57 |
| | | | | | | 1" Ice | 8.71 | 5.04 | 407.08 |
| JAHH-65B-R3B Panel | А | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 9.66 | 5.98 | 126.30 |
| Antenna | | e | 6.00 | | | 1/2" Ice | 10.22 | 6.44 | 184.38 |
| (Verizon-AWS) | | | 0.00 | | | 1" Ice | 10.79 | 6.91 | 248.75 |
| JAHH-65B-R3B Panel | Α | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 9.66 | 5.98 | 126.30 |
| Antenna | | | 5.50 | | | 1/2" Ice | 10.22 | 6.44 | 184.38 |
| (Verizon-PCS) | | | 0.00 | | | 1" Ice | 10.79 | 6.91 | 248.75 |
| LNX-6512DS-VTM | А | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 5.61 | 3.30 | 30.00 |
| (Verizon-850) | | | -3.00 | | | 1/2" Ice | 6.01 | 3.66 | 63.32 |
| | | | 0.00 | | | 1" Ice | 6.41 | 4.04 | 102.51 |
| MT6407-77A | А | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 4.71 | 1.84 | 0.09 |
| (Verizon - Proposed) | | | 0.00 | | | 1/2" Ice | 5.00 | 2.06 | 29.40 |
| | | | 0.00 | | | 1" Ice | 5.29 | 2.29 | 62.58 |
| BSAMNT-SBS-2-2 (JAHH | А | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 3.78 | 3.56 | 116.83 |
| Antenna Bracket (for 2)) | | | 6.00 | | | 1/2" Ice | 4.84 | 4.62 | 175.06 |
| (Verizon-PCS/AWS) | ٨ | Erom Las | 0.00 | 0.0000 | 222.00 | 1" Ice | 5.64 | 5.41 | 240.44 |
| B2/B66A RRH | А | From Leg | 5.00 | 0.0000 | 232.00 | No Ice 1/2'' Ice | 2.54 | 1.61 | 60.00 |
| (Verizon RRH) | | | 0.00 | | | 1/2" Ice | 2.75 | 1.79 | 80.12 |
| B5/B13 RRH | ٨ | From Leg | 0.00 5.00 | 0.0000 | 232.00 | No Ice | 2.97 1.87 | 1.98 1.02 | 103.35 70.00 |
| | А | From Leg | 0.00 | 0.0000 | 252.00 | 1/2" Ice | 2.03 | 1.02 | 86.42 |
| (Verizon DDU) | | | 0.00 | | | | | 1.15 | 00.42 |
| (Verizon RRH) | | | 0.00 | | | 1" Ico | 2 21 | 1 20 | 105 50 |
| (Verizon RRH) DB-B1-6C-12AB-0Z / | А | From Leg | 0.00 5.00 | 0.0000 | 232.00 | 1" Ice No Ice | 2.21 4.42 | 1.29 2.90 | 105.50 32.00 |

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Centek 63-2 N Brar Phone FAX.

| ıxTower | Job 21007.82 - Colchester | Page 30 of 96 |
|--|---|---------------------------|
| k Engineering Inc. 2 North Branford Rd. | Project 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| ranford, CT 06405 me: (203) 488-0580 X: (203) 488-8587 | Client Verizon | Designed by TJL |

| Description | Face or | Offset Type | Offsets: Horz | Azimuth Adjustment | Placement | | $C_A A_A$ Front | $C_A A_A$ Side | Weigh |
|--|------------|----------------|------------------|-----------------------|-----------|---------------------|--------------------|-------------------|----------------|
| | Leg | - | Lateral | | | | | | |
| | | | Vert | 0 | 0 | | c2 | c2 | |
| | | | ft | 0 | ft | | ft^2 | ft^2 | lb |
| | | | ft ft | | | | | | |
| (Verizon) | | | 0.00 | | | 1" Ice | 5.02 | 3.43 | 98.72 |
| JAHH-65B-R3B Panel | в | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 9.66 | 5.98 | 126.3 |
| Antenna | | C | 6.00 | | | 1/2" Ice | 10.22 | 6.44 | 184.3 |
| (Verizon-AWS) | | | 0.00 | | | 1" Ice | 10.79 | 6.91 | 248.7 |
| JAHH-65B-R3B Panel | в | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 9.66 | 5.98 | 126.3 |
| Antenna | | | 5.50 | | | 1/2" Ice | 10.22 | 6.44 | 184.3 |
| (Verizon-PCS) | | | 0.00 | | | 1" Ice | 10.79 | 6.91 | 248.7 |
| LNX-6512DS-VTM | в | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 5.61 | 3.30 | 30.00 |
| (Verizon-850) | | | -3.00 | | | 1/2" Ice | 6.01 | 3.66 | 63.32 |
| | | | 0.00 | | | 1" Ice | 6.41 | 4.04 | 102.5 |
| MT6407-77A | в | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 4.71 | 1.84 | 0.09 |
| (Verizon - Proposed) | | | 0.00 | | | 1/2" Ice | 5.00 | 2.06 | 29.40 |
| | Б | | 0.00 | 0.0000 | 222.00 | 1" Ice | 5.29 | 2.29 | 62.5 |
| SAMNT-SBS-2-2 (JAHH | В | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 3.78 | 3.56 | 116.8 |
| Antenna Bracket (for 2)) | | | 6.00 | | | 1/2" Ice | 4.84 | 4.62 | 175.0 |
| (Verizon-PCS/AWS) | D | F | 0.00 | 0.0000 | 222.00 | 1" Ice | 5.64 | 5.41 | 240.4 |
| B2/B66A RRH | В | From Leg | 5.00 0.00 | 0.0000 | 232.00 | No Ice 1/2'' Ice | 2.54 2.75 | 1.61 1.79 | 60.0 |
| (Verizon RRH) | | | 0.00 | | | 1/2 Ice | 2.73 | 1.79 | 80.11 103.3 |
| B5/B13 RRH | В | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 1.87 | 1.98 | 70.0 |
| (Verizon RRH) | Б | From Leg | 0.00 | 0.0000 | 252.00 | 1/2" Ice | 2.03 | 1.02 | 86.4 |
| (Verizon KKII) | | | 0.00 | | | 172 Ice | 2.03 | 1.15 | 105.5 |
| DB-B1-6C-12AB-0Z / | в | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 4.42 | 2.90 | 32.0 |
| DD-D1-0C-12AD-027 DC-3315-PF-48 Dist. Box | Б | FIOII Leg | 0.00 | 0.0000 | 252.00 | 1/2" Ice | 4.72 | 3.16 | 63.4 |
| (Verizon) | | | 0.00 | | | 1" Ice | 5.02 | 3.43 | 98.7 |
| JAHH-65B-R3B Panel | С | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 9.66 | 5.98 | 126.3 |
| Antenna | | 110111 218 | 6.00 | 0.0000 | | 1/2" Ice | 10.22 | 6.44 | 184.3 |
| (Verizon-AWS) | | | 0.00 | | | 1" Ice | 10.79 | 6.91 | 248.7 |
| JAHH-65B-R3B Panel | С | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 9.66 | 5.98 | 126.3 |
| Antenna | | C | 5.50 | | | 1/2" Ice | 10.22 | 6.44 | 184.3 |
| (Verizon-PCS) | | | 0.00 | | | 1" Ice | 10.79 | 6.91 | 248.7 |
| LNX-6512DS-VTM | С | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 5.61 | 3.30 | 30.0 |
| (Verizon-850) | | | -3.00 | | | 1/2" Ice | 6.01 | 3.66 | 63.3 |
| | | | 0.00 | | | 1" Ice | 6.41 | 4.04 | 102.5 |
| MT6407-77A | С | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 4.71 | 1.84 | 0.09 |
| (Verizon - Proposed) | | | 0.00 | | | 1/2" Ice | 5.00 | 2.06 | 29.4 |
| | | | 0.00 | | | 1" Ice | 5.29 | 2.29 | 62.5 |
| BSAMNT-SBS-2-2 (JAHH | С | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 3.78 | 3.56 | 116.8 |
| Antenna Bracket (for 2)) | | | 6.00 | | | 1/2" Ice | 4.84 | 4.62 | 175.0 |
| (Verizon-PCS/AWS) | ~ | | 0.00 | | | 1" Ice | 5.64 | 5.41 | 240.4 |
| B2/B66A RRH | С | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 2.54 | 1.61 | 60.0 |
| (Verizon RRH) | | | 0.00 | | | 1/2" Ice | 2.75 | 1.79 | 80.1 |
| D5/D12 DD11 | C | Energy Law | 0.00 | 0.0000 | 222.00 | 1" Ice | 2.97 | 1.98 | 103.3 |
| B5/B13 RRH | С | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 1.87 | 1.02 | 70.0 |
| (Verizon RRH) | | | 0.00 | | | 1/2" Ice | 2.03 | 1.15 | 86.4 |
| BC78T-DS-43-2X Diplexer | ٨ | From Leg | $0.00 \\ 5.00$ | 0.0000 | 232.00 | 1" Ice No Ice | 2.21 0.37 | 1.29 0.51 | 105.5 22.0 |
| (Verizon) | А | FIOII Leg | 0.00 | 0.0000 | 252.00 | 1/2" Ice | 0.37 | 0.51 | 22.0 |
| (venzon) | | | 0.00 | | | 1/2 Ice | 0.43 | 0.80 | 26.3 |
| BC78T-DS-43-2X Diplexer | в | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 0.33 | 0.70 | 22.0 |
| (Verizon) | Б | riom Leg | 0.00 | 0.0000 | 232.00 | 1/2" Ice | 0.37 | 0.51 | 22.0 |
| (venzon) | | | 0.00 | | | 172 Ice | 0.45 | 0.70 | 36.3 |
| BC78T-DS-43-2X Diplexer | С | From Leg | 5.00 | 0.0000 | 232.00 | No Ice | 0.37 | 0.51 | 22.0 |
| (Verizon) | ~ | 110m Deg | 0.00 | 0.0000 | 202.00 | 1/2" Ice | 0.45 | 0.60 | 28.34 |
| (, and buy | | | 0.00 | | | 172 Tee | 0.53 | 0.70 | 36.3 |
| VZW Proposed 12/07/2018 *** EMP-005 AT&T | | | | | | | | | 2012 |

| T | Job | | Page |
|---|---------|--------------------------------|---------------------------|
| tnxTower | | 31 of 96 | |
| Centek Engineering Inc. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| 63-2 North Branford Rd. Branford, CT 06405 | Client | | Designed by |
| Phone: (203) 488-0580 FAX: (203) 488-8587 | | Verizon | TJL |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral | Azimuth Adjustment | Placement | | $C_A A_A$ Front | $C_A A_A$ Side | Weigh |
|---------------------------|-------------------|----------------|-----------------------------|-----------------------|-----------|---------------------|--------------------|-------------------|------------------|
| | Leg | | Vert ft | D | ft | | ft² | ft² | lb |
| | | | ft ft | | | | | | |
| Inventory 08/2019 Updates | | | jı | | | | | | |
| PiROD 12' Lightweight | Α | None | | 0.0000 | 200.00 | No Ice | 10.20 | 10.20 | 253.00 |
| T-Frame | | | | | | 1/2" Ice | 16.20 | 16.20 | 355.00 |
| (AT&T) | D | | | 0.0000 | 200.00 | 1" Ice | 22.20 | 22.20 | 457.00 |
| PiROD 12' Lightweight | в | None | | 0.0000 | 200.00 | No Ice | 10.20 | 10.20 | 253.00 |
| T-Frame (AT&T) | | | | | | 1/2" Ice 1" Ice | 16.20 22.20 | 16.20 22.20 | 355.00 457.00 |
| PiROD 12' Lightweight | С | None | | 0.0000 | 200.00 | No Ice | 10.20 | 10.20 | 253.00 |
| T-Frame | C | Wone | | 0.0000 | 200.00 | 1/2" Ice | 16.20 | 16.20 | 355.00 |
| (AT&T) | | | | | | 1" Ice | 22.20 | 22.20 | 457.00 |
| 7770.00 | А | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 5.51 | 2.93 | 35.00 |
| (AT&T) | | | -6.00 | | 200000 | 1/2" Ice | 5.87 | 3.27 | 67.63 |
| | | | 0.00 | | | 1" Ice | 6.23 | 3.63 | 105.00 |
| HPA-65R-BUU-H8 Panel | Α | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 12.99 | 7.48 | 68.00 |
| (AT&T) | | c | 6.00 | | | 1/2" Ice | 13.69 | 8.06 | 140.4 |
| | | | 0.00 | | | 1" Ice | 14.40 | 8.64 | 220.4 |
| RRUS-32 | Α | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 3.31 | 2.42 | 77.00 |
| (AT&T) | | | 6.00 | | | 1/2" Ice | 3.56 | 2.64 | 104.9 |
| | | | 1.50 | | | 1" Ice | 3.81 | 2.86 | 136.4 |
| RRUS-11 | А | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 2.57 | 1.07 | 50.00 |
| (AT&T) | | | 6.00 | | | 1/2" Ice | 2.76 | 1.21 | 69.57 |
| | | | -1.50 | | | 1" Ice | 2.97 | 1.36 | 92.08 |
| 7770.00 | в | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 5.51 | 2.93 | 35.00 |
| (AT&T) | | | -6.00 | | | 1/2" Ice | 5.87 | 3.27 | 67.63 |
| | | | 0.00 | | | 1" Ice | 6.23 | 3.63 | 105.0 |
| HPA-65R-BUU-H8 Panel | в | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 12.99 | 7.48 | 68.00 |
| (AT&T) | | | 6.00 | | | 1/2" Ice | 13.69 | 8.06 | 140.4 |
| DDUG 22 | D | р I | 0.00 | 0.0000 | 200.00 | 1" Ice | 14.40 | 8.64 | 220.4 |
| RRUS-32 | В | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 3.31 | 2.42 | 77.00 |
| (AT&T) | | | 6.00 | | | 1/2" Ice | 3.56 | 2.64 | 104.9 |
| DDUC 11 | в | Enom Las | 1.50 | 0.0000 | 200.00 | 1" Ice | 3.81 2.57 | 2.86 | 136.4 |
| RRUS-11 (AT&T) | Б | From Leg | 3.00 6.00 | 0.0000 | 200.00 | No Ice 1/2'' Ice | 2.57 | 1.07 1.21 | 50.00 69.57 |
| (AI&I) | | | -1.50 | | | 172 Ice | 2.97 | 1.21 | 92.08 |
| 7770.00 | С | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 5.51 | 2.93 | 35.00 |
| (AT&T) | C | FIOII Leg | -6.00 | 0.0000 | 200.00 | 1/2" Ice | 5.87 | 3.27 | 67.63 |
| (mar) | | | 0.00 | | | 172 1ee 1" Ice | 6.23 | 3.63 | 105.0 |
| HPA-65R-BUU-H6 Panel | С | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 10.12 | 5.49 | 48.00 |
| (AT&T) | | 110111218 | 6.00 | | | 1/2" Ice | 10.69 | 5.94 | 105.3 |
| | | | 0.00 | | | 1" Ice | 11.26 | 6.41 | 168.9 |
| RRUS-32 | В | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 3.31 | 2.42 | 77.00 |
| (AT&T) | | U | 6.00 | | | 1/2" Ice | 3.56 | 2.64 | 104.9 |
| | | | 1.50 | | | 1" Ice | 3.81 | 2.86 | 136.4 |
| RRUS-11 | в | From Leg | 3.00 | 0.0000 | 200.00 | No Ice | 2.57 | 1.07 | 50.00 |
| (AT&T) | | | 6.00 | | | 1/2" Ice | 2.76 | 1.21 | 69.57 |
| | | | -1.50 | | | 1" Ice | 2.97 | 1.36 | 92.08 |
| DC6-48-60-0-8C Squid / | С | None | | 0.0000 | 200.00 | No Ice | 1.79 | 1.79 | 27.00 |
| Surge Arrestor | | | | | | 1/2" Ice | 2.02 | 2.02 | 47.39 |
| (AT&T) | | | | | | 1" Ice | 2.27 | 2.27 | 70.57 |
| STK-U Stiffener Side Arm | Α | None | | 0.0000 | 200.00 | No Ice | 0.07 | 4.01 | 63.79 |
| Attachment | | | | | | 1/2" Ice | 0.11 | 5.00 | 95.84 |
| (AT&T) | ~ | | | 0.000- | | 1" Ice | 0.16 | 6.01 | 138.1 |
| STK-U Stiffener Side Arm | В | None | | 0.0000 | 200.00 | No Ice | 0.07 | 4.01 | 63.79 |
| Attachment | | | | | | 1/2" Ice | 0.11 | 5.00 | 95.84 |
| (AT&T) | C | N | | 0.0000 | 200.00 | 1" Ice | 0.16 | 6.01 | 138.1 |
| STK-U Stiffener Side Arm | С | None | | 0.0000 | 200.00 | No Ice | 0.07 | 4.01 | 63.79 |
| Attachment | | | | | | 1/2" Ice | 0.11 | 5.00 | 95.84 |

| tnxTower | Job 21007.82 - Colchester | Page 32 of 96 |
|--|---|---------------------------|
| Centek Engineering Inc. 63-2 North Branford Rd. | Project 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client Verizon | Designed by TJL |

| Description | Face or | Offset Type | Offsets: Horz | Azimuth Adjustment | Placement | | $C_A A_A$ Front | $C_A A_A$ Side | Weight |
|--------------------------------|------------|----------------|------------------|-----------------------|-----------|----------|--------------------|-------------------|--------|
| | Leg | V I | Lateral | 5 | | | | | |
| | | | Vert ft | 0 | ft | | ft^2 | ft^2 | lb |
| | | | ft | | Ji | | Ji | Ji | lD |
| | | | ft | | | | | | |
| (AT&T) | | | | | | 1" Ice | 0.16 | 6.01 | 138.17 |
| STK-U Stiffener Side Arm | А | None | | 0.0000 | 200.00 | No Ice | 0.07 | 4.01 | 63.79 |
| Attachment | | | | | | 1/2" Ice | 0.11 | 5.00 | 95.84 |
| (AT&T) | | | | | | 1" Ice | 0.16 | 6.01 | 138.17 |
| STK-U Stiffener Side Arm | в | None | | 0.0000 | 200.00 | No Ice | 0.07 | 4.01 | 63.79 |
| Attachment | | | | | | 1/2" Ice | 0.11 | 5.00 | 95.84 |
| (AT&T) | | | | | | 1" Ice | 0.16 | 6.01 | 138.17 |
| STK-U Stiffener Side Arm | С | None | | 0.0000 | 200.00 | No Ice | 0.07 | 4.01 | 63.79 |
| Attachment | | | | | | 1/2" Ice | 0.11 | 5.00 | 95.84 |
| (AT&T) | | | | | | 1" Ice | 0.16 | 6.01 | 138.17 |
| *** EMP-005 AT&T | | | | | | | | | |
| Inventory 08/2019 Updates | | | | | | | | | |
| * Eversource Proposed | | | | | | | | | |
| Telewave ANT220F2 - Omni | С | From Leg | 4.00 | 0.0000 | 163.00 | No Ice | 1.03 | 1.03 | 14.00 |
| Antenna | | | 0.00 | | | 1/2" Ice | 1.29 | 1.29 | 22.80 |
| (Eversource) | | | 0.00 | | | 1" Ice | 1.56 | 1.56 | 34.62 |
| Sitepro1 USF-4U Mount | С | From Leg | 0.00 | 0.0000 | 160.00 | No Ice | 2.48 | 5.14 | 165.00 |
| Assembly ($Ca = 1.4$ assumed) | | | 0.00 | | | 1/2" Ice | 3.25 | 6.91 | 318.00 |
| (Eversource) | | | 0.00 | | | 1" Ice | 4.03 | 8.67 | 474.00 |
| Telewave ANT220F2 - Omni | С | From Leg | 4.00 | 0.0000 | 145.00 | No Ice | 1.03 | 1.03 | 14.00 |
| Antenna | | | 0.00 | | | 1/2" Ice | 1.29 | 1.29 | 22.80 |
| (Eversource) | | | 0.00 | | | 1" Ice | 1.56 | 1.56 | 34.62 |
| Sitepro1 USF-4U Mount | С | From Leg | 0.00 | 0.0000 | 142.00 | No Ice | 2.48 | 5.14 | 165.00 |
| Assembly ($Ca = 1.4$ assumed) | | e e | 0.00 | | | 1/2" Ice | 3.25 | 6.91 | 318.00 |
| (Eversource) | | | 0.00 | | | 1" Ice | 4.03 | 8.67 | 474.00 |

| Dishes | | | | | | | | | | | |
|--|-------------------|-----------------------------|----------------|-------------------------------------|-----------------------|-----------------------|-----------|---------------------|--------------------|------------------|------------------|
| Description | Face or Leg | Dish Type | Offset Type | Offsets: Horz Lateral Vert | Azimuth Adjustment | 3 dB Beam Width | Elevation | Outside Diameter | | Aperture Area | Weight |
| | | | | ft | 0 | D | ft | ft | | ft^2 | lb |
| * CSP Inventory from HighTower Solutions Climb | | | | | | | | | | | |
| PA8-65 (ECI-63) | Α | Paraboloid w/Shroud (HP) | From Leg | 0.50 0.00 | Worst | | 107.00 | 8.00 | No Ice 1/2" Ice | 50.27 51.29 | 285.00 548.30 |
| Andrew 2' w/Radome | С | Paraboloid | From | $0.00 \\ 0.50$ | Worst | | 112.00 | 2.00 | 1" Ice No Ice | 52.31 3.14 | 811.60 70.00 |
| (ECI-61) | C | w/Radome | Leg | 0.00 | | | 112.00 | 2.00 | 1/2" Ice 1" Ice | 3.41 3.68 | 282.00 494.00 |
| * CSP Proposed | | | | | | | | | | | |
| Commscope PAR6-59W-PXA/A | С | Paraboloid w/Radome | From Leg | $0.50 \\ 0.00$ | Worst | | 154.00 | 6.00 | No Ice 1/2" Ice | 28.27 29.07 | 310.00 460.00 |
| (ECI-58) | | | 0 | 0.00 | | | | | 1" Ice | 29.86 | 610.00 |

| Project Date | 33 of 96 |
|---------------|---------------|
| | |
| · · · · · · | :33 03/24/22 |
| Client Design | ned by TJL |

| Constant | Value |
|---------------------------------|-------|
| K _d | 0.85 |
| Ice Thickness Importance Factor | 1.15 |
| Z_{g} | 900 |
| α | 9.5 |
| K _{zmin} | 0.85 |
| K _s | 1 |
| K | 0.53 |
| f | 2 |
| Ke | 1 |

222-H Section Verification ArRr By Element

| Section | Elem. | Size | С | С | F | е | е | A_r | A_r | $A_r R_r$ | $A_r R_r$ |
|---------------------|-------|-------------|--------|--------|--------|-------|-------|--------|-----------------|-----------|-----------|
| Elevation | Num. | | | w/Ice | а | | w/Ice | | w/Ice | | w/Ice |
| | | | | | с | | | | | | |
| ft | | | | | е | | | ft^2 | ft ² | ft^2 | ft^2 |
| T1 | 1 | ROHN 5 EH | 82.308 | 44.611 | С | 0.209 | 0.397 | 7.417 | 11.257 | 3.346 | 7.145 |
| 320.00-304.00 | | | | | | | | | | | |
| | 1 | ROHN 5 EH | 82.308 | 44.611 | Α | 0.209 | 0.397 | 7.417 | 11.257 | 3.346 | 7.145 |
| | 2 | ROHN 5 EH | 82.308 | 44.611 | C | 0.209 | 0.397 | 7.417 | 11.257 | 3.346 | 7.145 |
| | 2 | ROHN 5 EH | 82.308 | 44.611 | В | 0.209 | 0.397 | 7.417 | 11.257 | 3.346 | 7.145 |
| | 3 | ROHN 5 EH | 82.308 | 44.611 | В | 0.209 | 0.397 | 7.417 | 11.257 | 3.346 | 7.145 |
| | 3 | ROHN 5 EH | 82.308 | 44.611 | A | 0.209 | 0.397 | 7.417 | 11.257 | 3.346 | 7.145 |
| | | | | | A | | Sum: | 14.835 | 22.513 | 6.692 | 14.291 |
| | | | | | B | | | 14.835 | 22.513 | 6.692 | 14.291 |
| T 2 | 21 | DOIN 5 EU | 02 020 | 44 41 | C C | 0.201 | 0.276 | 14.835 | 22.513 | 6.692 | 14.291 |
| T2 304.00-300.00 | 31 | ROHN 5 EH | 82.028 | 44.41 | C | 0.201 | 0.376 | 1.854 | 2.811 | 0.828 | 1.760 |
| 304.00-300.00 | 31 | ROHN 5 EH | 82.028 | 44.41 | А | 0.201 | 0.376 | 1.854 | 2.811 | 0.828 | 1.760 |
| | 31 | ROHN 5 EH | 82.028 | 44.41 | C A | 0.201 | 0.376 | | 2.811 | 0.828 | 1.760 |
| | 32 | ROHN 5 EH | 82.028 | 44.41 | B | 0.201 | 0.376 | | 2.811 | 0.828 | 1.760 |
| | 32 | ROHN 5 EH | 82.028 | 44.41 | B | 0.201 | 0.376 | | 2.811 | 0.828 | 1.760 |
| | 33 | ROHN 5 EH | 82.028 | 44.41 | A | 0.201 | 0.376 | | 2.811 | 0.828 | 1.760 |
| | 55 | KOIIN J EII | 02.020 | 44.41 | A | 0.201 | Sum: | 3.709 | 5.622 | 1.656 | 3.520 |
| | | | | | B | | Sum. | 3.709 | 5.622 | 1.656 | 3.520 |
| | | | | | C | | | 3.709 | 5.622 | 1.656 | 3.520 |
| Т3 | 40 | ROHN 6 EH | 97.274 | 49.73 | č | 0.207 | 0.361 | 11.061 | 15.833 | 4.974 | 9.818 |
| 300.00-280.00 | 10 | Rome o En | 57.271 | 19.75 | C | 0.207 | 0.501 | 11.001 | 15.055 | | 2.010 |
| 200.00 200.00 | 40 | ROHN 6 EH | 97.274 | 49.73 | Α | 0.207 | 0.361 | 11.061 | 15.833 | 4.974 | 9.818 |
| | 41 | ROHN 6 EH | 97.274 | 49.73 | ĉ | 0.207 | 0.361 | 11.061 | 15.833 | 4.974 | 9.818 |
| | 41 | ROHN 6 EH | 97.274 | 49.73 | B | 0.207 | 0.361 | 11.061 | 15.833 | 4.974 | 9.818 |
| | 42 | ROHN 6 EH | 97.274 | 49.73 | в | 0.207 | 0.361 | 11.061 | 15.833 | 4.974 | 9.818 |
| | 42 | ROHN 6 EH | 97.274 | 49.73 | Α | 0.207 | 0.361 | 11.061 | 15.833 | 4.974 | 9.818 |
| | | | | | Α | | Sum: | 22.122 | 31.667 | 9.949 | 19.637 |
| | | | | | В | | | 22.122 | 31.667 | 9.949 | 19.637 |
| | | | | | С | | | 22.122 | 31.667 | 9.949 | 19.637 |
| T4 | | | | | Α | | Sum: | 0.000 | 0.000 | 0.000 | 0.000 |
| 280.00-260.00 | | | | | В | | | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | | С | | | 0.000 | 0.000 | 0.000 | 0.000 |
| T5 | | | | | Α | | Sum: | 0.000 | 0.000 | 0.000 | 0.000 |
| 260.00-240.00 | | | | | В | | | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | | С | | | 0.000 | 0.000 | 0.000 | 0.000 |
| Т6 | | | | | Α | | Sum: | 0.000 | 0.000 | 0.000 | 0.000 |
| 240.00-220.00 | | | | | В | | | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | | C | | ~ | 0.000 | 0.000 | 0.000 | 0.000 |
| T7 | | | | | A | | Sum: | 0.000 | 0.000 | 0.000 | 0.000 |
| 220.00-200.00 | | | | | B | | | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | | C | | C | 0.000 | 0.000 | 0.000 | 0.000 |
| T8 | | | I | I | A | I | Sum: | 0.000 | 0.000 | 0.000 | 0.000 |

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| | Job | | Page |
|-------------------|---------|--------------------------------|-------------------|
| ver | | 21007.82 - Colchester | 34 of 96 |
| ering Inc. | Project | | Date |
| ford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| 06405 | Client | Malaa | Designed by |
| 88-0580 8-8587 | | Verizon | TJL |

| Section | Elem. | Size | С | С | F | е | е | A_r | A_r | $A_r R_r$ | $A_r R_r$ |
|---------------|------------|----------------------------|------------------|------------------|--------|----------------|------------------|-----------------|------------------|------------------|------------------|
| Elevation | Num. | 5120 | | w/Ice | a | č | w/Ice | | w/Ice | | w/Ice |
| | | | | | с | | | 22 | .2 | .2 | .2 |
| <i>ft</i> | | | | | e | | | ft^2 | ft^2 | ft^2 | ft^2 |
| 200.00-180.00 | | | | | B C | | | 0.000 0.000 | 0.000 0.000 | 0.000 0.000 | $0.000 \\ 0.000$ |
| Т9 | | | | | A | | Sum: | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.00-170.00 | | | | | B | | Sum. | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.00 170.00 | | | | | Č | | | 0.000 | 0.000 | 0.000 | 0.000 |
| T10 | | | | | А | | Sum: | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.00-160.00 | | | | | В | | | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | | С | | | 0.000 | 0.000 | 0.000 | 0.000 |
| T11 | | | | | A | | Sum: | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.00-140.00 | | | | | B C | | | 0.000 | 0.000 | $0.000 \\ 0.000$ | 0.000 |
| T12 | | | | | A | | Sum: | 0.000 0.000 | 0.000 0.000 | 0.000 | $0.000 \\ 0.000$ |
| 140.00-120.00 | | | | | B | | Sum. | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.00 120.00 | | | | | č | | | 0.000 | 0.000 | 0.000 | 0.000 |
| T13 | 214 | ROHN 3 STD | 47.3 | 29.584 | С | 0.131 | 0.181 | 7.130 | 12.487 | 3.797 | 7.135 |
| 120.00-100.00 | | | | | | | | | | | |
| | 215 | ROHN 3 XXS | 47.3 | 29.584 | С | 0.131 | 0.181 | 6.882 | 12.051 | 3.664 | 6.886 |
| | 216 | ROHN 1.5 STD | 25.677 | 21.861 | C | 0.131 | 0.181 | 0.930 | 2.218 | 0.526 | 1.267 |
| | 217 | ROHN 2 STD | 32.097 | 24.154 | C | 0.131 | 0.181 | 2.092 | 4.407 | 1.183 | 2.518 |
| | 218 219 | ROHN 3 XXS ROHN 1.5 STD | 47.3 25.677 | 29.584 21.861 | C C | 0.131 0.131 | $0.181 \\ 0.181$ | 6.882 0.930 | 12.051 2.218 | 3.664 0.526 | 6.886 1.267 |
| | 219 | ROHN 2 STD | 32.097 | 24.154 | c | 0.131 | 0.181 | 2.092 | 4.407 | 1.183 | 2.518 |
| | 220 | ROHN 3 STD | 47.3 | 29.584 | B | 0.131 | 0.181 | 7.130 | 12.487 | 3.797 | 7.135 |
| | 222 | ROHN 3 XXS | 47.3 | 29.584 | B | 0.131 | 0.181 | 6.882 | 12.051 | 3.664 | 6.886 |
| | 223 | ROHN 1.5 STD | 25.677 | 21.861 | В | 0.131 | 0.181 | 0.930 | 2.218 | 0.526 | 1.267 |
| | 224 | ROHN 2 STD | 32.097 | 24.154 | В | 0.131 | 0.181 | 2.092 | 4.407 | 1.183 | 2.518 |
| | 225 | ROHN 3 XXS | 47.3 | 29.584 | В | 0.131 | 0.181 | 6.882 | 12.051 | 3.664 | 6.886 |
| | 226 | ROHN 1.5 STD | 25.677 | 21.861 | B | 0.131 | 0.181 | 0.930 | 2.218 | 0.526 | 1.267 |
| | 227 | ROHN 2 STD | 32.097 | 24.154 | B | 0.131 | 0.181 | 2.092 | 4.407 | 1.183 3.797 | 2.518 |
| | 230 231 | ROHN 3 STD ROHN 3 XXS | 47.3 47.3 | 29.584 29.584 | A A | 0.131 0.131 | $0.181 \\ 0.181$ | 7.130 6.882 | 12.487 12.051 | 3.664 | 7.135 6.886 |
| | 231 | ROHN 1.5 STD | 25.677 | 29.364 | A | 0.131 | 0.181 | 0.882 | 2.218 | 0.526 | 1.267 |
| | 233 | ROHN 2 STD | 32.097 | 24.154 | A | 0.131 | 0.181 | 2.092 | 4.407 | 1.183 | 2.518 |
| | 234 | ROHN 3 XXS | 47.3 | 29.584 | А | 0.131 | 0.181 | 6.882 | 12.051 | 3.664 | 6.886 |
| | 235 | ROHN 1.5 STD | 25.677 | 21.861 | Α | 0.131 | 0.181 | 0.930 | 2.218 | 0.526 | 1.267 |
| | 236 | ROHN 2 STD | 32.097 | 24.154 | Α | 0.131 | 0.181 | 2.092 | 4.407 | 1.183 | 2.518 |
| | | | | | Α | | Sum: | 26.937 | 49.840 | 14.546 | 28.479 |
| | | | | | B | | | 26.937 | 49.840 | 14.546 | 28.479 |
| T14 | 247 | ROHN 3 EH | 47.029 | 20.205 | C C | 0.122 | 0.17 | 26.937 7.883 | 49.840 | 14.546 4.196 | 28.479 |
| 100.00-80.00 | 247 | KUHN 5 EH | 47.038 | 29.305 | C | 0.122 | 0.17 | /.005 | 13.751 | 4.190 | 7.837 |
| 100.00 00.00 | 248 | ROHN 3 XXS | 47.038 | 29.305 | С | 0.122 | 0.17 | 7.109 | 12.401 | 3.784 | 7.068 |
| | 249 | P1.5x.145 | | 21.625 | Č | 0.122 | 0.17 | 1.033 | 2.448 | 0.584 | 1.395 |
| | 250 | ROHN 2 EH | 31.986 | 23.929 | С | 0.122 | 0.17 | 2.178 | 4.563 | 1.232 | 2.601 |
| | 251 | ROHN 3 XXS | | 29.305 | С | 0.122 | 0.17 | 7.109 | 12.401 | 3.784 | 7.068 |
| | 252 | P1.5x.145 | 25.535 | 21.625 | C | 0.122 | 0.17 | | 2.448 | 0.584 | 1.395 |
| | 253 | ROHN 2 EH | 31.986 | 23.929 | C | 0.122 | 0.17 | 2.178 | 4.563 | 1.232 | 2.601 |
| | 254 255 | ROHN 3 EH ROHN 3 XXS | 47.038 47.038 | 29.305 29.305 | B B | 0.122 0.122 | $0.17 \\ 0.17$ | | 13.751 12.401 | 4.196 3.784 | 7.837 7.068 |
| | 255 | P1.5x.145 | 25.535 | 29.303 | B | 0.122 | 0.17 | | 2.448 | 0.584 | 1.395 |
| | 250 | ROHN 2 EH | 31.986 | 23.929 | B | 0.122 | 0.17 | | 4.563 | 1.232 | 2.601 |
| | 258 | ROHN 3 XXS | 47.038 | 29.305 | B | 0.122 | 0.17 | 7.109 | 12.401 | 3.784 | 7.068 |
| | 259 | P1.5x.145 | 25.535 | 21.625 | В | 0.122 | 0.17 | 1.033 | 2.448 | 0.584 | 1.395 |
| | 260 | ROHN 2 EH | 31.986 | 23.929 | В | 0.122 | 0.17 | 2.178 | 4.563 | 1.232 | 2.601 |
| | 263 | ROHN 3 EH | 47.038 | 29.305 | A | 0.122 | 0.17 | 7.883 | 13.751 | 4.196 | 7.837 |
| | 264 | ROHN 3 XXS | 47.038 | 29.305 | A | 0.122 | 0.17 | 7.109 | 12.401 | 3.784 | 7.068 |
| | 265 | P1.5x.145 | 25.535 | 21.625 23.929 | A | 0.122 0.122 | 0.17 | | 2.448 4.563 | 0.584 1.232 | 1.395 2.601 |
| | 266 267 | ROHN 2 EH ROHN 3 XXS | | 23.929 | A A | 0.122 | $0.17 \\ 0.17$ | | 4.563 | 1.232 3.784 | |
| | 268 | P1.5x.145 | | 29.303 | | 0.122 | | | | | |
| • • | 200 | | 1 | 21.020 | | 0.122 | 0.17 | 1.055 | 210 | 0.201 | 1.275 |

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Centek 63-2 Bri Phoi FA

| Tormore | Job | | Page |
|---|---------|--------------------------------|---------------------------|
| nxTower | | 21007.82 - Colchester | 35 of 96 |
| ek Engineering Inc. -2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 hone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Elem. | Size | С | С | F | е | е | A_r | A_r | $A_r R_r$ | $A_r R_r$ |
|-----------------|------------|-----------------------------|------------------|------------------|--------|----------------|----------------|------------------|------------------|------------------|------------------|
| Elevation | Num. | 5120 | | w/Ice | a | , c | w/Ice | | w/Ice | ,, | w/Ice |
| | | | | | с | | | - 2 | -2 | - 2 | - 2 |
| ft | 2.0 | DOIDIADU | 21.007 | 22.020 | e | 0.122 | 0.17 | ft^2 | ft^2 | ft^2 | ft^2 |
| | 269 | ROHN 2 EH | 31.986 | 23.929 | A A | 0.122 | 0.17 Sum: | 2.178 28.523 | 4.563 52.577 | 1.232 15.395 | 2.601 29.965 |
| | | | | | B | | Sum. | 28.523 | 52.577 | 15.395 | 29.905 |
| | | | | | č | | | 28.523 | 52.577 | 15.395 | 29.965 |
| T15 80.00-60.00 | 280 | ROHN 3 XXS | 47.101 | 29.273 | С | 0.127 | 0.173 | 8.577 | 14.926 | 4.570 | 8.511 |
| | 281 | ROHN 3 XXS | 47.101 | 29.273 | С | 0.127 | 0.173 | 7.336 | 12.766 | 3.908 | 7.280 |
| | 282 | ROHN 2 STD | 31.961 | 23.866 | C | 0.127 | 0.173 | 1.402 | 2.932 | 0.793 | 1.672 |
| | 283 | ROHN 2 EH | 32.029 | 23.89 | C | 0.127 | 0.173 | 2.232 | 4.662 | 1.262 | 2.658 |
| | 284 285 | ROHN 3 XXS ROHN 2 STD | 47.101 31.961 | 29.273 23.866 | C C | 0.127 0.127 | 0.173 0.173 | 7.336 1.402 | 12.766 2.932 | 3.908 0.793 | 7.280 1.672 |
| | 285 | ROHN 2 EH | 32.029 | 23.89 | č | 0.127 | 0.173 | 2.232 | 4.662 | 1.262 | 2.658 |
| | 287 | ROHN 3 XXS | 47.101 | 29.273 | B | 0.127 | 0.173 | 8.577 | 14.926 | 4.570 | 8.511 |
| | 288 | ROHN 3 XXS | 47.101 | 29.273 | В | 0.127 | 0.173 | 7.336 | 12.766 | 3.908 | 7.280 |
| | 289 | ROHN 2 STD | 31.961 | 23.866 | В | 0.127 | 0.173 | 1.402 | 2.932 | 0.793 | 1.672 |
| | 290 | ROHN 2 EH | 32.029 | 23.89 | В | 0.127 | 0.173 | 2.232 | 4.662 | 1.262 | 2.658 |
| | 291 | ROHN 3 XXS | 47.101 | 29.273 | B | 0.127 | 0.173 | 7.336 | 12.766 | 3.908 | 7.280 |
| | 292 293 | ROHN 2 STD ROHN 2 EH | 31.961 32.029 | 23.866 23.89 | B B | 0.127 0.127 | 0.173 0.173 | 1.402 2.232 | 2.932 4.662 | 0.793 1.262 | 1.672 2.658 |
| | 295 | ROHN 3 XXS | 47.101 | 29.273 | A | 0.127 | 0.173 | 8.577 | 14.926 | 4.570 | 8.511 |
| | 290 | ROHN 3 XXS | 47.101 | 29.273 | A | 0.127 | 0.173 | 7.336 | 12.766 | 3.908 | 7.280 |
| | 298 | ROHN 2 STD | 31.961 | 23.866 | Α | 0.127 | 0.173 | 1.402 | 2.932 | 0.793 | 1.672 |
| | 299 | ROHN 2 EH | 32.029 | 23.89 | Α | 0.127 | 0.173 | 2.232 | 4.662 | 1.262 | 2.658 |
| | 300 | ROHN 3 XXS | 47.101 | 29.273 | Α | 0.127 | 0.173 | 7.336 | 12.766 | 3.908 | 7.280 |
| | 301 | ROHN 2 STD | 31.961 | 23.866 | A | 0.127 | 0.173 | 1.402 | 2.932 | 0.793 | 1.672 |
| | 302 | ROHN 2 EH | 32.029 | 23.89 | A | 0.127 | 0.173 | 2.232 | 4.662 | 1.262 | 2.658 |
| | | | | | A B | | Sum: | 30.518 30.518 | 55.645 55.645 | 16.498 16.498 | 31.731 31.731 |
| | | | | | C | | | 30.518 | 55.645 | 16.498 | 31.731 |
| T16 60.00-30.00 | 313 | ROHN 3.5 EH | 54.877 | 32.316 | č | 0.122 | 0.165 | 10.693 | 17.630 | 5.348 | 10.036 |
| | 314 | ROHN 4 EH | 61.736 | 34.766 | С | 0.122 | 0.165 | 12.823 | 20.219 | 6.052 | 11.509 |
| | 315 | ROHN 1.5 STD | 26.067 | 22.026 | С | 0.122 | 0.165 | 0.790 | 1.870 | 0.447 | 1.065 |
| | 316 | ROHN 2 XXS | 32.583 | 24.354 | C | 0.122 | 0.165 | 2.081 | 4.356 | 1.176 | 2.479 |
| | 317 | ROHN 2 EH | 32.652 | 24.378 | C | 0.122 | 0.165 | 1.972 | 4.123 | 1.115 | 2.347 |
| | 318 319 | ROHN 2.5 STD ROHN 4 EH | 39.443 61.736 | 26.804 34.766 | C C | 0.122 0.122 | 0.165 0.165 | 3.288 12.823 | 6.256 20.219 | 1.853 6.052 | 3.561 11.509 |
| | 319 | ROHN 1.5 STD | 26.067 | 22.026 | c | 0.122 | 0.165 | 0.790 | 1.870 | 0.032 | 1.065 |
| | 321 | ROHN 2 XXS | 32.583 | 24.354 | č | 0.122 | 0.165 | 2.081 | 4.356 | 1.176 | 2.479 |
| | 322 | ROHN 2 EH | 32.652 | 24.378 | С | 0.122 | 0.165 | 1.972 | 4.123 | 1.115 | 2.347 |
| | 323 | ROHN 2.5 STD | 39.443 | 26.804 | С | 0.122 | 0.165 | 3.288 | 6.256 | 1.853 | 3.561 |
| | 324 | ROHN 3.5 EH | 54.877 | 32.316 | В | 0.122 | 0.165 | 10.693 | 17.630 | 5.348 | 10.036 |
| | 325 | ROHN 4 EH | 61.736 | 34.766 | B | 0.122 | 0.165 | 12.823 | 20.219 | 6.052 | 11.509 |
| | 326 327 | ROHN 1.5 STD ROHN 2 XXS | 26.067 32.583 | 22.026 24.354 | B B | 0.122 0.122 | 0.165 0.165 | 0.790 2.081 | 1.870 4.356 | 0.447 1.176 | 1.065 2.479 |
| | 327 | ROHN 2 ZAS | | 24.334 | B | 0.122 | 0.165 | 1.972 | | | 2.479 |
| | 329 | ROHN 2.5 STD | 39.443 | | B | 0.122 | 0.165 | 3.288 | | 1.853 | 3.561 |
| | 330 | ROHN 4 EH | 61.736 | 34.766 | В | 0.122 | 0.165 | 12.823 | 20.219 | 6.052 | 11.509 |
| | 331 | ROHN 1.5 STD | 26.067 | 22.026 | В | 0.122 | 0.165 | 0.790 | 1.870 | 0.447 | 1.065 |
| | 332 | ROHN 2 XXS | 32.583 | 24.354 | В | 0.122 | 0.165 | 2.081 | 4.356 | 1.176 | 2.479 |
| | 333 | ROHN 2 EH | 32.652 | 24.378 | B | 0.122 | 0.165 | 1.972 | 4.123 | 1.115 | 2.347 |
| | 334 339 | ROHN 2.5 STD ROHN 3.5 EH | 39.443 54.877 | 26.804 32.316 | B | 0.122 0.122 | 0.165 0.165 | 3.288 10.693 | 6.256 17.630 | 1.853 5.348 | 3.561 10.036 |
| | 340 | ROHN 3.5 EH | 61.736 | | A A | 0.122 | 0.165 | 12.823 | 20.219 | 6.052 | 11.509 |
| | 340 | ROHN 1.5 STD | 26.067 | 22.026 | A | 0.122 | 0.165 | 0.790 | 1.870 | 0.052 | 1.065 |
| | 342 | ROHN 2 XXS | 32.583 | 24.354 | A | 0.122 | 0.165 | 2.081 | 4.356 | 1.176 | 2.479 |
| | 343 | ROHN 2 EH | 32.652 | 24.378 | Α | 0.122 | 0.165 | 1.972 | 4.123 | 1.115 | 2.347 |
| | 344 | ROHN 2.5 STD | 39.443 | | A | 0.122 | 0.165 | 3.288 | | 1.853 | 3.561 |
| | 345 | ROHN 4 EH | 61.736 | 34.766 | A | 0.122 | 0.165 | 12.823 | 20.219 | 6.052 | 11.509 |
| | 346 347 | ROHN 1.5 STD ROHN 2 XXS | 26.067 32.583 | | A | 0.122 0.122 | 0.165 0.165 | 0.790 2.081 | | 0.447 1.176 | 1.065 2.479 |
| | 347 | ROHN 2 XXS ROHN 2 EH | | 24.354 | A A | 0.122 | | | | | |
| I I | 540 | ROIN 2 EII | 152.052 | 27.570 | 11 | 0.122 | 0.105 | 1.972 | 7.123 | 1.115 | 2.547 |

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Centek 63-2 Bro Phor FAX

| nxTower | Job | 21007.82 - Colchester | Page 36 of 96 |
|---|---------|--------------------------------|---------------------------|
| ek Engineering Inc. -2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 100ne: (203) 488-0580 AX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Elem. | Size | С | С | F | е | е | A_r | A_r | $A_r R_r$ | $A_r R_r$ |
|----------------|------------|------------------------------|------------------|------------------|--------|----------------|----------------|-----------------|-----------------|-----------|-----------------|
| Elevation | Num. | | | w/Ice | а | | w/Ice | - | w/Ice | | w/Ice |
| | | | | | с | | | | | | |
| ft | | | | | е | | | ft^2 | ft ² | ft^2 | ft^2 |
| | 349 | ROHN 2.5 STD | 39.443 | 26.804 | Α | 0.122 | 0.165 | 3.288 | 6.256 | 1.853 | 3.561 |
| | | | | | Α | | Sum: | 52.602 | 91.278 | | 51.957 |
| | | | | | В | | | 52.602 | 91.278 | | 51.957 |
| | | | | | C | | | 52.602 | 91.278 | | 51.957 |
| T17 30.00-0.00 | 364 | ROHN 4 EH | 64.741 | 36.51 | C | 0.117 | 0.158 | 13.402 | 21.161 | 6.136 | 12.028 |
| | 365 | ROHN 4 EH | 64.741 | 36.51 | C | 0.117 | 0.158 | 13.245 | 20.914 | | 11.887 |
| | 366 | P1.5x.145 | 27.335 | 23.151 | C | 0.117 | 0.158 | 0.887 | 2.103 | | 1.196 |
| | 367 | ROHN 2.5 EH | 41.363 | 28.16 | C | 0.117 | 0.158 | 2.812 | 5.360 | 1.561 | 3.046 |
| | 368 | ROHN 2.5 STD | 41.363 | 28.16 | C | 0.117 | 0.158 | 2.470 | 4.708 | 1.371 | 2.676 |
| | 369 | ROHN 2.5 STD | 41.363 | 28.16 | C | 0.117 | 0.158 | 3.506 | 6.683 | | 3.799 |
| | 370 | ROHN 4 EH | 64.741 | 36.51 | C | 0.117 | 0.158 | 13.245 | 20.914 | | 11.887 |
| | 371 | P1.5x.145 | 27.335 | 23.151 | C | 0.117 | 0.158 | 0.887 | 2.103 | | 1.196 |
| | 372 | ROHN 2.5 EH | 41.363 | 28.16 | C | 0.117 | 0.158 | 2.812 | 5.360 | 1.561 | 3.046 |
| | 373 | ROHN 2.5 STD | 41.363 | 28.16 | C | 0.117 | 0.158 | 2.470 | 4.708 | 1.371 | 2.676 |
| | 374 | ROHN 2.5 STD | 41.363 | 28.16 | C | 0.117 | 0.158 | 3.506 | | | 3.799 |
| | 375 | ROHN 4 EH | 64.741 | 36.51 | B | 0.117 | 0.158 | 13.402 | 21.161 | 6.136 | 12.028 |
| | 376 377 | ROHN 4 EH P1.5x.145 | 64.741 27.335 | 36.51 23.151 | B B | 0.117 0.117 | 0.158 0.158 | 13.245 0.887 | 20.914 2.103 | | 11.887 1.196 |
| | 378 | ROHN 2.5 EH | 41.363 | 25.151 | - | | 0.158 | 2.812 | | | 3.046 |
| | 378 379 | | | | B | 0.117 | | | 5.360 | 1.561 | 2.676 |
| | 379 | ROHN 2.5 STD ROHN 2.5 STD | 41.363 41.363 | $28.16 \\ 28.16$ | B B | 0.117 0.117 | 0.158 0.158 | 2.470 3.506 | 4.708 6.683 | | 2.676 |
| | 380 | ROHN 2.5 STD | 64.741 | 36.51 | B | 0.117 | 0.158 | 13.245 | 20.914 | | 11.887 |
| | 382 | P1.5x.145 | 27.335 | 23.151 | B | 0.117 | 0.158 | 0.887 | 20.914 | | 1.196 |
| | 383 | ROHN 2.5 EH | 41.363 | 23.151 | B | 0.117 | 0.158 | 2.812 | 5.360 | 1.561 | 3.046 |
| | 383 | ROHN 2.5 STD | 41.363 | 28.10 | B | 0.117 | 0.158 | 2.812 | 4.708 | | 2.676 |
| | 385 | ROHN 2.5 STD | 41.363 | 28.16 | B | 0.117 | 0.158 | 3.506 | 6.683 | | 3.799 |
| | 390 | ROHN 2.5 STD | 64.741 | 36.51 | A | 0.117 | 0.158 | 13.402 | 21.161 | 6.136 | 12.028 |
| | 391 | ROHN 4 EH | 64.741 | 36.51 | A | 0.117 | 0.158 | 13.245 | 20.914 | | 11.887 |
| | 392 | P1.5x.145 | 27.335 | 23.151 | A | 0.117 | 0.158 | 0.887 | 20.014 | | 1.196 |
| | 393 | ROHN 2.5 EH | 41.363 | 28.16 | A | 0.117 | 0.158 | 2.812 | 5.360 | 1.561 | 3.046 |
| | 394 | ROHN 2.5 STD | 41.363 | 28.16 | A | 0.117 | 0.158 | 2.812 | 4.708 | | 2.676 |
| | 395 | ROHN 2.5 STD | 41.363 | 28.16 | A | 0.117 | 0.158 | 3.506 | 6.683 | | 3.799 |
| | 396 | ROHN 4 EH | 64.741 | 36.51 | A | 0.117 | 0.158 | 13.245 | 20.914 | | 11.887 |
| | 397 | P1.5x.145 | 27.335 | 23.151 | A | 0.117 | 0.158 | 0.887 | 2.103 | | 1.196 |
| | 398 | ROHN 2.5 EH | 41.363 | 28.16 | A | 0.117 | 0.158 | 2.812 | 5.360 | 1.561 | 3.046 |
| | 399 | ROHN 2.5 STD | 41.363 | 28.16 | A | 0.117 | 0.158 | 2.470 | 4.708 | | 2.676 |
| | 400 | ROHN 2.5 STD | 41.363 | 28.16 | A | 0.117 | 0.158 | 3.506 | | 1.946 | 3.799 |
| | .50 | 1.511, 20 515 | 11.505 | 20.10 | A | 0.117 | Sum: | 59.240 | 100.698 | | 57.236 |
| | | | | | B | | , | 59.240 | 100.698 | | 57.236 |
| | | | | | č | | | 59.240 | 100.698 | | 57.236 |
| | | | | | | | | 231210 | 200.090 | 251020 | 571250 |
| | | | | | | | | | | | |

| | 222-H Section Verification Tables - No Ice | | | | | | | | | | | |
|------------------|--|------------------|-------|---------|-----------------|-------|---------------|-------------|-------------------------|-----------------|--|--|
| Section | Z_{wind} | Z _{ice} | Kz | K_h | K _{zt} | t_z | q_z | F | е | $A_r R_r$ | | |
| Elevation | Ĥ | Ĥ | | | | in | nef | a c e | | ft ² | | |
| T1 320.00-304.00 | 312.00 | ji | 1.608 | 11890.1 | 1 | in | <i>psf</i> 69 | A B | 0.209 | 6.692 6.692 | | |
| T2 304.00-300.00 | 302.00 | | 1.597 | 8801.76 | 1 | | 68 | C A | 0.209 0.209 0.201 | 6.692 1.656 | | |
| | | | | | | | | B C | 0.201 0.201 | 1.656 1.656 | | |

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|--------------|---------|--------------------------------|--------------------|
| • | | 37 of 96 | |
| Inc. | Project | | Date |
| Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| 5 80 7 | Client | Verizon | Designed by TJL |

| Section | Z_{wind} | Z_{ice} | Kz | K_h | K_{zt} | t_z | q_z | F | е | $A_r R_r$ |
|----------------------------|------------|-----------|---------|---------|----------|-------|-------|--------|----------------|----------------|
| Elevation | | | ~ | ** | 24 | ~ | 1- | а | | |
| | | | | | | | | с | | |
| ft | ft | ft | | | | in | psf | е | | ft^2 |
| T3 300.00-280.00 | 290.00 | | 1.584 | 6135.24 | 1 | | 68 | Α | 0.207 | 9.949 |
| | | | | | | | | В | 0.207 | 9.949 |
| | | | | | | | | С | 0.207 | 9.949 |
| T4 280.00-260.00 | 270.00 | | 1.56 | 3362.03 | 1 | | 67 | Α | 0.237 | 0.000 |
| | | | | | | | | В | 0.237 | 0.000 |
| | | | | | | | | С | 0.237 | 0.000 |
| T5 260.00-240.00 | 250.00 | | 1.535 | 1842.35 | 1.001 | | 66 | А | 0.219 | 0.000 |
| | | | | | | | | В | 0.219 | 0.000 |
| | | | | | | | | С | 0.219 | 0.000 |
| T6 240.00-220.00 | 230.00 | | 1.508 | 1009.58 | 1.001 | | 64 | Α | 0.223 | 0.000 |
| | | | | | | | | В | 0.223 | 0.000 |
| | | | | | | | | С | 0.223 | 0.000 |
| T7 220.00-200.00 | 210.00 | | 1.48 | 553.239 | 1.002 | | 63 | Α | 0.181 | 0.000 |
| | | | | | | | | В | 0.181 | 0.000 |
| | | | | | | | | С | 0.181 | 0.000 |
| T8 200.00-180.00 | 190.00 | | 1.449 | 303.168 | 1.003 | | 62 | А | 0.187 | 0.000 |
| | | | | | | | | В | 0.187 | 0.000 |
| | | | | | | | | С | 0.187 | 0.000 |
| T9 180.00-170.00 | 175.00 | | 1.424 | 193.09 | 1.005 | | 61 | Α | 0.177 | 0.000 |
| | | | | | | | | В | 0.177 | 0.000 |
| | | | | | | | | С | 0.177 | 0.000 |
| T10 170.00-160.00 | 165.00 | | 1.406 | 142.937 | 1.007 | | 60 | A | 0.171 | 0.000 |
| | | | | | | | | B | 0.171 | 0.000 |
| THE 1 CO OO 1 10 00 | 1 50 00 | | 1 2 5 0 | 01.000 | | | | С | 0.171 | 0.000 |
| T11 160.00-140.00 | 150.00 | | 1.378 | 91.038 | 1.012 | | 59 | A | 0.181 | 0.000 |
| | | | | | | | | B | 0.181 | 0.000 |
| T12 140 00 120 00 | 120.00 | | 1 2 2 7 | 40.000 | 1 001 | | 50 | C | 0.181 | 0.000 |
| T12 140.00-120.00 | 130.00 | | 1.337 | 49.888 | 1.021 | | 58 | A | 0.173 | 0.000 |
| | | | | | | | | B C | 0.173 0.173 | 0.000 0.000 |
| T13 120.00-100.00 | 110.00 | | 1.291 | 27.338 | 1.039 | | 57 | A | 0.173 | 14.546 |
| 115 120.00-100.00 | 110.00 | | 1.291 | 27.330 | 1.039 | | 57 | B | 0.131 | 14.546 |
| | | | | | | | | C | 0.131 | 14.546 |
| T14 100.00-80.00 | 90.00 | | 1.238 | 14.981 | 1.072 | | 57 | A | 0.131 | 15.395 |
| 114 100.00-80.00 | 90.00 | | 1.2.30 | 14.201 | 1.072 | | 57 | B | 0.122 | 15.395 |
| | | | | | | | | C | 0.122 | 15.395 |
| T15 80.00-60.00 | 70.00 | | 1.174 | 8.209 | 1.133 | | 57 | A | 0.122 | 16.498 |
| 115 80.00-00.00 | 70.00 | | 1.1/4 | 0.209 | 1.155 | | 57 | B | 0.127 | 16.498 |
| | | | | | | | | C | 0.127 | 16.498 |
| T16 60.00-30.00 | 45.00 | | 1.07 | 3.87 | 1.293 | | 59 | A | 0.127 | 26.633 |
| 110 00.00-50.00 | 45.00 | | 1.07 | 5.07 | 1.295 | | 59 | B | 0.122 | 26.633 |
| | | | | | | | | C | 0.122 | 26.633 |
| T17 30.00-0.00 | 15.00 | | 0.85 | 1.57 | 1.789 | | 65 | A | 0.122 | 29.025 |
| 11/ 50.00-0.00 | 15.00 | | 0.05 | 1.57 | 1.707 | | 55 | B | 0.117 | 29.025 |
| | | | | | | | | Č | 0.117 | 29.025 |
| | | | | | | | | - V | U.11/ | 27.025 |

| | 222-H Section Verification Tables - Ice | | | | | | | | | | | |
|------------------|---|------------------|-------|---------|-----------------|----------------|--------------|-------------|----------------|------------------|--|--|
| Section | Z_{wind} | Z _{ice} | Kz | K_h | K _{zt} | t _z | q_z | F | е | $A_r R_r$ | | |
| Elevation | G | A | | | | in | f | a c | | c^2 | | |
| T1 320.00-304.00 | 312.00 | 312.00 | 1.608 | 11890.1 | 1 | 1.4397 | <i>psf</i> 9 | e A D | 0.397 | 24.226 | | |
| | | | | | | | | B C | 0.397 0.397 | 24.226 24.226 | | |
| T2 304.00-300.00 | 302.00 | 302.00 | 1.597 | 8801.76 | 1 | 1.4350 | 9 | A B | 0.376 0.376 | 5.724 5.724 | | |

tnxTower

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| • | | 21007.82 - Colchester | 38 of 96 |
| Inc. | Project | | Date |
| Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| 30 7 | Client | Verizon | Designed by TJL |

| Section Elevation | Z_{wind} | Z _{ice} | Kz | K_h | K _{zt} | t _z | q_z | F a | е | $A_r R_r$ |
|----------------------|------------|------------------|---------|----------|-----------------|----------------|-------|--------|----------------|-----------------|
| ft | ft | ft | | | | in | psf | с e | | ft ² |
| | | | | | | | | С | 0.376 | 5.724 |
| T3 300.00-280.00 | 290.00 | 290.00 | 1.584 | 6135.24 | 1 | 1.4293 | 9 | Α | 0.361 | 30.771 |
| 1 | | | | | | | | В | 0.361 | 30.771 |
| 1 | | | | | | | | С | 0.361 | 30.771 |
| T4 280.00-260.00 | 270.00 | 270.00 | 1.56 | 3362.03 | 1 | 1.4192 | 8 | Α | 0.33 | 9.387 |
| 1 | | | | | | | | В | 0.33 | 9.387 |
| | | | | | | | | С | 0.33 | 9.387 |
| T5 260.00-240.00 | 250.00 | 250.00 | 1.535 | 1842.35 | 1.001 | 1.4084 | 8 | Α | 0.307 | 10.777 |
| 1 | | | | | | | | В | 0.307 | 10.777 |
| TC 940 00 990 00 | | 220.00 | 1 500 | 1000 50 | 1 001 | 1 20 40 | | С | 0.307 | 10.777 |
| T6 240.00-220.00 | 230.00 | 230.00 | 1.508 | 1009.58 | 1.001 | 1.3969 | 8 | A | 0.307 | 12.230 |
| 1 | | | | | | | | B | 0.307 | 12.230 |
| TT 220 00 200 00 | 210.00 | 210.00 | 1.40 | 552 220 | 1.002 | 1 20 47 | 0 | C | 0.307 | 12.230 |
| T7 220.00-200.00 | 210.00 | 210.00 | 1.48 | 553.239 | 1.002 | 1.3847 | 8 | A | 0.245 | 9.623 |
| 1 | | | | | | | | B | 0.245 | 9.623 9.623 |
| TR 200 00 180 00 | 190.00 | 100.00 | 1 4 4 0 | 202 1 69 | 1.002 | 1.3717 | 8 | C A | 0.245 0.246 | 9.623 |
| T8 200.00-180.00 | 190.00 | 190.00 | 1.449 | 303.168 | 1.003 | 1.3/1/ | 8 | A B | 0.246 | 10.497 |
| 1 | | | | | | | | Б С | 0.246 | 10.497 |
| T9 180.00-170.00 | 175.00 | 175.00 | 1.424 | 193.09 | 1.005 | 1.3614 | 8 | A | 0.246 | 5.560 |
| 19 180.00-170.00 | 175.00 | 175.00 | 1.424 | 195.09 | 1.005 | 1.5014 | 0 | B | 0.235 | 5.560 |
| 1 | | | | | | | | C | 0.235 | 5.560 |
| T10 170.00-160.00 | 165.00 | 165.00 | 1.406 | 142.937 | 1.007 | 1.3543 | 8 | Ă | 0.233 | 5.765 |
| 110 170.00-100.00 | 105.00 | 105.00 | 1.400 | 172.757 | 1.007 | 1.5545 | 0 | B | 0.228 | 5.765 |
| 1 | | | | | | | | Č | 0.228 | 5.765 |
| T11 160.00-140.00 | 150.00 | 150.00 | 1.378 | 91.038 | 1.012 | 1.3434 | 8 | Ă | 0.236 | 12.176 |
| 111 100.00 110.00 | 120.00 | 120.00 | 1.570 | 91.050 | 1.012 | 1.5 1.5 1 | 0 | B | 0.236 | 12.176 |
| 1 | | | | | | | | Ċ | 0.236 | 12.176 |
| T12 140.00-120.00 | 130.00 | 130.00 | 1.337 | 49.888 | 1.021 | 1.3288 | 7 | Ā | 0.226 | 12.970 |
| | | | | | | | | В | 0.226 | 12.970 |
| 1 | | | | | | | | С | 0.226 | 12.970 |
| T13 120.00-100.00 | 110.00 | 110.00 | 1.291 | 27.338 | 1.039 | 1.3147 | 7 | Α | 0.181 | 28.479 |
| I | | | | | | | | в | 0.181 | 28.479 |
| | | | | | | | | С | 0.181 | 28.479 |
| T14 100.00-80.00 | 90.00 | 90.00 | 1.238 | 14.981 | 1.072 | 1.3027 | 7 | Α | 0.17 | 29.965 |
| 1 | | | | | | | | В | 0.17 | 29.965 |
| 1 | | | | | | | | С | 0.17 | 29.965 |
| T15 80.00-60.00 | 70.00 | 70.00 | 1.174 | 8.209 | 1.133 | 1.2953 | 7 | А | 0.173 | 31.731 |
| I I | | | | | | | | В | 0.173 | 31.731 |
| I | | | | | | | | С | 0.173 | 31.731 |
| T16 60.00-30.00 | 45.00 | 45.00 | 1.07 | 3.87 | 1.293 | 1.2977 | 8 | A | 0.165 | 51.957 |
| I I | | | | | | | | В | 0.165 | 51.957 |
| | | | 0.6- | | 1 | | | С | 0.165 | 51.957 |
| T17 30.00-0.00 | 15.00 | 15.00 | 0.85 | 1.57 | 1.789 | 1.3028 | 8 | A | 0.158 | 57.236 |
| I | | | | | | | | B | 0.158 | 57.236 |
| | | | | | | | | С | 0.158 | 57.236 |

222-H Section Verification Tables - Service

| Section | Z_{wind} | Z _{ice} | Kz | K_h | K_{zt} | t_z | q_z | F | е | $A_r R_r$ |
|------------------|------------|------------------|-------|---------|----------|-------|-------|---|-------|-----------|
| Elevation | | | | | | | | а | | |
| | | | | | | | | С | | - 2 |
| ft | ft | ft | | | | in | psf | е | | ft* |
| T1 320.00-304.00 | 312.00 | | 1.608 | 11890.1 | 1 | | 13 | А | 0.209 | 8.547 |
| | | | | | | | | В | 0.209 | 8.547 |
| | | | | | | | | С | 0.209 | 8.547 |
| T2 304.00-300.00 | 302.00 | | 1.597 | 8801.76 | 1 | | 13 | Α | 0.201 | 2.131 |

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| | Job | | Page |
|----------------------|---------|--------------------------------|--------------------|
| er | | 21007.82 - Colchester | 39 of 96 |
| ing Inc. | Project | | Date |
| rd Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| 405 -0580 8587 | Client | Verizon | Designed by TJL |

| Section Elevation | Z_{wind} | Z _{ice} | Kz | K_h | Kzt | tz | q_z | F a | е | $A_r R_r$ |
|----------------------|------------|------------------|---------|---------|---------|----|-------|--------|----------------|------------------|
| ft | ft | ft | | | | in | psf | С | | ft^2 |
| Ji | Ji | ji | | | | in | psj | e B | 0.201 | 2.131 |
| | | | | | | | | | 0.201 | |
| T2 200 00 280 00 | 290.00 | | 1.584 | 6135.24 | 1 | | 12 | C | | 2.131 12.544 |
| T3 300.00-280.00 | 290.00 | | 1.584 | 0155.24 | 1 | | 12 | A | 0.207 | 12.544 |
| | | | | | | | | B C | 0.207 0.207 | 12.544 |
| T4 280.00-260.00 | 270.00 | | 1.56 | 3362.03 | 1 | | 12 | A | 0.207 | 0.000 |
| 14 280.00-200.00 | 270.00 | | 1.50 | 5502.05 | 1 | | 12 | B | 0.237 | 0.000 |
| | | | | | | | | C | 0.237 | 0.000 |
| T5 260.00-240.00 | 250.00 | | 1.535 | 1842.35 | 1.001 | | 12 | Ă | 0.219 | 0.000 |
| 15 200.00-240.00 | 250.00 | | 1.555 | 1042.55 | 1.001 | | 12 | B | 0.219 | 0.000 |
| | | | | | | | | Č | 0.219 | 0.000 |
| T6 240.00-220.00 | 230.00 | | 1.508 | 1009.58 | 1.001 | | 12 | Ă | 0.223 | 0.000 |
| | 220100 | | 1.000 | 1005100 | 11001 | | | В | 0.223 | 0.000 |
| | | | | | | | | č | 0.223 | 0.000 |
| T7 220.00-200.00 | 210.00 | | 1.48 | 553.239 | 1.002 | | 12 | Ă | 0.181 | 0.000 |
| | | | | | | | | В | 0.181 | 0.000 |
| | | | | | | | | C | 0.181 | 0.000 |
| T8 200.00-180.00 | 190.00 | | 1.449 | 303.168 | 1.003 | | 11 | Α | 0.187 | 0.000 |
| | | | | | | | | в | 0.187 | 0.000 |
| | | | | | | | | С | 0.187 | 0.000 |
| T9 180.00-170.00 | 175.00 | | 1.424 | 193.09 | 1.005 | | 11 | Α | 0.177 | 0.000 |
| | | | | | | | | В | 0.177 | 0.000 |
| | | | | | | | | С | 0.177 | 0.000 |
| T10 170.00-160.00 | 165.00 | | 1.406 | 142.937 | 1.007 | | 11 | Α | 0.171 | 0.000 |
| | | | | | | | | В | 0.171 | 0.000 |
| | | | | | | | | С | 0.171 | 0.000 |
| T11 160.00-140.00 | 150.00 | | 1.378 | 91.038 | 1.012 | | 11 | Α | 0.181 | 0.000 |
| | | | | | | | | в | 0.181 | 0.000 |
| | | | | | | | | С | 0.181 | 0.000 |
| T12 140.00-120.00 | 130.00 | | 1.337 | 49.888 | 1.021 | | 11 | Α | 0.173 | 0.000 |
| | | | | | | | | В | 0.173 | 0.000 |
| | | | | | | | | С | 0.173 | 0.000 |
| T13 120.00-100.00 | 110.00 | | 1.291 | 27.338 | 1.039 | | 11 | A | 0.131 | 15.243 |
| I 1 | | | | | | | | B | 0.131 | 15.243 |
| T14 400 00 00 00 | 00.00 | | 1 220 | 11001 | 1 0 7 9 | | 10 | С | 0.131 | 15.243 |
| T14 100.00-80.00 | 90.00 | | 1.238 | 14.981 | 1.072 | | 10 | A | 0.122 | 16.124 |
| | | | | | | | | B | 0.122 | 16.124 |
| T15 80 00 (0.00 | 70.00 | | 1 1 7 4 | 0.000 | 1 1 2 2 | | 10 | C | 0.122 | 16.124 |
| T15 80.00-60.00 | 70.00 | | 1.174 | 8.209 | 1.133 | | 10 | A | 0.127 | 17.261 |
| | | | | | | | | B | 0.127 | 17.261 |
| T16 60.00-30.00 | 45.00 | | 1.07 | 3.87 | 1.293 | | 11 | C A | 0.127 0.122 | 17.261 29.736 |
| 110 00.00-50.00 | 45.00 | | 1.07 | 5.8/ | 1.293 | | 11 | A B | 0.122 | 29.736 |
| I 1 | | | | | | | | В С | 0.122 | 29.736 |
| T17 30.00-0.00 | 15.00 | | 0.85 | 1.57 | 1.789 | | 12 | A | 0.122 | 33.471 |
| 117 50.00-0.00 | 15.00 | | 0.05 | 1.57 | 1.707 | | 12 | B | 0.117 | 33.471 |
| | | | | | | | | C | 0.117 | 33.471 |
| | | | | | | | | Ç | 0.11/ | 55,471 |

Tower Pressures - No Ice

 $G_H = \theta.85\theta$

| Section | Ζ | K_Z | q_z | A_G | F | A_F | A_R | A_{leg} | Leg | $C_A A_A$ | $C_A A_A$ |
|-----------|----|-------|-------|-------|---|--------|-------|-----------|-----|-----------|-----------|
| Elevation | | | | | а | | | | % | In | Out |
| | | | | . 2 | С | .2 | . 2 | .2 | | Face | Face |
| ft | ft | | psf | ft² | е | ft^2 | ft² | ft² | | ft² | fť |

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Centek Engi 63-2 North E Branford, Phone: (202 FAX: (203)

| Connon | Job | | Page |
|---|---------|--------------------------------|--------------------|
| Tower | | 21007.82 - Colchester | 40 of 96 |
| gineering Inc. | Project | | Date |
| h Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| d, CT 06405 03) 488-0580 03) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Ζ | Kz | q_z | A_G | F | A_F | A_R | A_{leg} | Leg | $C_A A_A$ | $C_A A_A$ |
|----------------|--------|---------|-------|---------|--------|------------------|----------------|-----------------|----------------|------------------|------------------|
| Elevation | | Ľ | 1* | 0 | a | 1 | л | 1.5 | % | In | Out |
| | | | | | c | | | | , 0 | Face | Face |
| ft | ft | | psf | ft^2 | e | ft^2 | ft^2 | ft ² | | ft^2 | ft^2 |
| T1 | 312.00 | 1.608 | 69 | 116.377 | Α | 9.512 | 14.835 | 14.835 | 60.93 | 0.000 | 0.000 |
| 320.00-304.00 | | | | | В | 9.512 | 14.835 | | 60.93 | 5.561 | 0.000 |
| | | | | | C | 9.512 | 14.835 | | 60.93 | 0.000 | 0.000 |
| T2 | 302.00 | 1.597 | 68 | 29.094 | Α | 2.147 | 3.709 | 3.709 | 63.34 | 0.000 | 0.000 |
| 304.00-300.00 | | | | | В | 2.147 | 3.709 | | 63.34 | 1.540 | 0.000 |
| | | | | | C | 2.147 | 3.709 | | 63.34 | 0.000 | 0.000 |
| T3 | 290.00 | 1.584 | 68 | 167.656 | Α | 12.563 | 22.122 | 22.122 | 63.78 | 0.000 | 0.000 |
| 300.00-280.00 | | | | | В | 12.563 | 22.122 | | 63.78 | 13.483 | 0.000 |
| | | | | | С | 12.563 | 22.122 | | 63.78 | 0.000 | 0.000 |
| T4 | 270.00 | 1.56 | 67 | 216.829 | Α | 51.368 | 0.000 | 37.788 | 73.56 | 0.000 | 0.000 |
| 280.00-260.00 | | | | | B | 51.368 | 0.000 | | 73.56 | 26.676 | 0.000 |
| | | | | | С | 51.368 | 0.000 | | 73.56 | 0.000 | 0.000 |
| T5 | 250.00 | 1.535 | 66 | 259.126 | Α | 56.868 | 0.000 | 37.778 | 66.43 | 0.000 | 0.000 |
| 260.00-240.00 | | | | | B | 56.868 | 0.000 | | 66.43 | 37.174 | 0.000 |
| | 220.00 | 1 500 | | 000 (07 | C | 56.868 | 0.000 | 25.55 | 66.43 | 0.000 | 0.000 |
| T6 | 230.00 | 1.508 | 64 | 299.625 | A | 66.901 | 0.000 | 37.776 | 56.46 | 0.000 | 0.000 |
| 240.00-220.00 | | | | | B | 66.901 | 0.000 | | 56.46 | 49.355 | 0.000 |
| T7 | 210.00 | 1 40 | 0 | 220 725 | C | 66.901 | 0.000 | 27 775 | 56.46 | 0.000 | 0.000 |
| T7 | 210.00 | 1.48 | 63 | 339.725 | A | 61.588 | 0.000 | 37.775 | 61.34 | 0.000 | 0.000 |
| 220.00-200.00 | | | | | B C | 61.588 | 0.000 | | 61.34 | 49.900 30.160 | $0.000 \\ 0.000$ |
| т8 | 190.00 | 1 4 4 0 | 62 | 295 076 | | 61.588 | 0.000 0.000 | 15 622 | 61.34 | | 0.000 |
| 200.00-180.00 | 190.00 | 1.449 | 62 | 385.076 | A B | 71.839 71.839 | 0.000 | 45.633 | 63.52 63.52 | 30.040 49.900 | 0.000 |
| 200.00-180.00 | | | | | C | 71.839 | 0.000 | | 63.52 | 30.160 | 0.000 |
| Т9 | 175.00 | 1.424 | 61 | 208.387 | A | 36.864 | 0.000 | 22.815 | 61.89 | 15.020 | 0.000 |
| 180.00-170.00 | 175.00 | 1.424 | 01 | 200.307 | B | 36.864 | 0.000 | 22.015 | 61.89 | 27.055 | 0.000 |
| 180.00-170.00 | | | | | C | 36.864 | 0.000 | | 61.89 | 15.080 | 0.000 |
| т10 | 165.00 | 1.406 | 60 | 218.787 | A | 37.492 | 0.000 | 22.815 | 60.85 | 15.020 | 0.000 |
| 170.00-160.00 | 105.00 | 1.400 | 00 | 210.707 | B | 37.492 | 0.000 | 22.015 | 60.85 | 29.412 | 0.000 |
| 170.00-100.00 | | | | | C | 37.492 | 0.000 | | 60.85 | 15.080 | 0.000 |
| Т11 | 150.00 | 1.378 | 59 | 467.070 | Ă | 84.562 | 0.000 | 45.617 | 53.94 | 30.040 | 0.000 |
| 160.00-140.00 | 120100 | 11270 | 5, | 10/10/0 | B | 84.562 | 0.000 | 101017 | 53.94 | 65.283 | 0.000 |
| 100000 10000 | | | | | Ĉ | 84.562 | 0.000 | | 53.94 | 30.160 | 0.000 |
| T12 | 130.00 | 1.337 | 58 | 507.978 | Ā | 87.738 | 0.000 | 45.637 | 52.02 | 30.040 | 0.000 |
| 140.00-120.00 | | | | | В | 87.738 | 0.000 | | 52.02 | 71.886 | 0.000 |
| | | | | | C | 87.738 | 0.000 | | 52.02 | 30.160 | 0.000 |
| T13 | 110.00 | 1.291 | 57 | 555.591 | Α | 45.673 | 26.937 | 45.673 | 62.90 | 30.040 | 0.000 |
| 120.00-100.00 | | | | | В | 45.673 | 26.937 | | 62.90 | 76.650 | 0.000 |
| | | | | | С | 45.673 | 26.937 | | 62.90 | 30.160 | 0.000 |
| T14 | 90.00 | 1.238 | 57 | 606.388 | Α | 45.666 | 28.523 | 45.666 | 61.55 | 30.040 | 0.000 |
| 100.00-80.00 | | | | | В | 45.666 | 28.523 | | 61.55 | 83.818 | 0.000 |
| | | | | | C | 45.666 | 28.523 | | 61.55 | 30.160 | 0.000 |
| T15 | 70.00 | 1.174 | 57 | 662.098 | Α | 53.708 | 30.518 | 53.708 | 63.77 | 30.040 | 0.000 |
| 80.00-60.00 | | | | | В | 53.708 | 30.518 | | 63.77 | 85.889 | 0.000 |
| | | | | | C | 53.708 | 30.518 | | 63.77 | 30.160 | 0.000 |
| T16 | 45.00 | 1.07 | 59 | 1088.08 | Α | 80.523 | 52.602 | 80.523 | 60.49 | 45.060 | 0.000 |
| 60.00-30.00 | | | | 3 | В | 80.523 | 52.602 | | 60.49 | 128.833 | 0.000 |
| | | | | | С | 80.523 | 52.602 | | 60.49 | 45.240 | 0.000 |
| T17 30.00-0.00 | 15.00 | 0.85 | 65 | 1202.12 | Α | 81.480 | 59.240 | 81.480 | 57.90 | 37.550 | 0.000 |
| | | | | 2 | В | 81.480 | 59.240 | | 57.90 | 107.361 | 0.000 |
| | | | | | С | 81.480 | 59.240 | | 57.90 | 37.700 | 0.000 |

Tower Pressure - With Ice

 $G_H = 0.850$

tnx1

Centek Eng 63-2 North Branford Phone: (20 FAX: (20

| Tana | Job | | Page |
|--|---------|--------------------------------|---------------------------|
| Tower | | 21007.82 - Colchester | 41 of 96 |
| ngineering Inc. th Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| ord, CT 06405 (203) 488-0580 203) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Ζ | Kz | q_z | t_Z | A_G | F | A_F | A_R | A_{leg} | Leg | $C_A A_A$ | $C_A A_A$ |
|---------------------|---------|---------|-------|--------------|-----------|--------|------------------|--------------------|-----------------|----------------|--------------------|------------------|
| Elevation | | | | | | а | | | | % | In | Out |
| | | | | | .2 | С | a ² | .2 | .2 | | Face | Face |
| ft | ft | 1 (00) | psf | in 1 1207 | ft^2 | е | ft ² | ft^2 | ft ² | 17.00 | ft^2 | ft^2 |
| T1 | 312.00 | 1.608 | 9 | 1.4397 | 120.217 | A | 9.512 | 38.165 | 22.513 | 47.22 | 0.000 | 0.000 |
| 320.00-304.00 | | | | | | B | 9.512 | 38.165 | | 47.22 | 22.405 0.000 | 0.000 |
| Т2 | 302.00 | 1.597 | 9 | 1 4250 | 30.051 | C | 9.512 2.147 | 38.165 9.143 | 5.622 | 47.22 49.80 | 0.000 | 0.000 |
| 304.00-300.00 | 302.00 | 1.397 | 9 | 1.4350 | 50.051 | A B | 2.147 | 9.143 | 5.622 | 49.80 | 6.132 | $0.000 \\ 0.000$ |
| 304.00-300.00 | | | | | | C | 2.147 | 9.143 | | 49.80 | 0.132 | 0.000 |
| Т3 | 290.00 | 1.584 | 9 | 1.4293 | 172.426 | Ă | 12.563 | 49.623 | 31.667 | 50.92 | 0.000 | 0.000 |
| 300.00-280.00 | 290.00 | 1.501 | | 1.1275 | 172.120 | В | 12.563 | 49.623 | 51.007 | 50.92 | 49.786 | 0.000 |
| | | | | | | Ċ | 12.563 | 49.623 | | 50.92 | 0.000 | 0.000 |
| T4 | 270.00 | 1.56 | 8 | 1.4192 | 221.567 | Α | 57.688 | 15.419 | 44.108 | 60.33 | 0.000 | 0.000 |
| 280.00-260.00 | | | | | | в | 57.688 | 15.419 | | 60.33 | 89.970 | 0.000 |
| | | | | | | С | 57.688 | 15.419 | | 60.33 | 0.000 | 0.000 |
| T5 | 250.00 | 1.535 | 8 | 1.4084 | 263.827 | А | 63.139 | 17.925 | 44.048 | 54.34 | 0.000 | 0.000 |
| 260.00-240.00 | | | | | | В | 63.139 | 17.925 | | 54.34 | 118.862 | 0.000 |
| | | | | 4 4 4 4 4 | | С | 63.139 | 17.925 | 10.00 | 54.34 | 0.000 | 0.000 |
| T6 | 230.00 | 1.508 | 8 | 1.3969 | 304.288 | A | 73.120 | 20.343 | 43.995 | 47.07 | 0.000 | 0.000 |
| 240.00-220.00 | | | | | | B C | 73.120 | 20.343 | | 47.07 47.07 | 154.126 | 0.000 |
| Т7 | 210.00 | 1.48 | 8 | 1.3847 | 344.347 | A | 73.120 67.752 | 20.343 16.487 | 43.940 | 52.16 | $0.000 \\ 0.000$ | $0.000 \\ 0.000$ |
| 220.00-200.00 | 210.00 | 1.40 | 0 | 1.3047 | 544.547 | B | 67.752 | 16.487 | 45.940 | 52.16 | 155.138 | 0.000 |
| 220.00-200.00 | | | | | | C | 67.752 | 16.487 | | 52.16 | 84.362 | 0.000 |
| Т8 | 190.00 | 1.449 | 8 | 1.3717 | 389.655 | Ă | 77.947 | 17.973 | 51.741 | 53.94 | 85.834 | 0.000 |
| 200.00-180.00 | 190100 | | Ũ | 1.2717 | 2021000 | B | 77.947 | 17.973 | 011111 | 53.94 | 154.148 | 0.000 |
| | | | | | | С | 77.947 | 17.973 | | 53.94 | 84.196 | 0.000 |
| Т9 | 175.00 | 1.424 | 8 | 1.3614 | 210.660 | А | 39.895 | 9.563 | 25.845 | 52.26 | 42.830 | 0.000 |
| 180.00-170.00 | | | | | | В | 39.895 | 9.563 | | 52.26 | 84.506 | 0.000 |
| | | | | | | С | 39.895 | 9.563 | | 52.26 | 42.033 | 0.000 |
| T10 | 165.00 | 1.406 | 8 | 1.3543 | 221.048 | А | 40.507 | 9.939 | 25.830 | 51.20 | 42.771 | 0.000 |
| 170.00-160.00 | | | | | | в | 40.507 | 9.939 | | 51.20 | 93.607 | 0.000 |
| | 1.50.00 | 1 2 7 0 | | 1 2 4 2 4 | 471 554 | С | 40.507 | 9.939 | 51.504 | 51.20 | 41.988 | 0.000 |
| T11 | 150.00 | 1.378 | 8 | 1.3434 | 471.554 | A | 90.542 | 20.928 | 51.596 | 46.29 46.29 | 85.358 | 0.000 |
| 160.00-140.00 | | | | | | B C | 90.542 90.542 | 20.928 20.928 | | 46.29 | 204.733 83.838 | $0.000 \\ 0.000$ |
| T12 | 130.00 | 1.337 | 7 | 1.3288 | 512.414 | A | 93.655 | 20.928 | 51.555 | 44.43 | 85.111 | 0.000 |
| 140.00-120.00 | 150.00 | 1.557 | ' | 1.5200 | 512.414 | B | 93.655 | 22.377 | 51.555 | 44.43 | 223.633 | 0.000 |
| 110.00 120.00 | | | | | | Č | 93.655 | 22.377 | | 44.43 | 83.653 | 0.000 |
| T13 | 110.00 | 1.291 | 7 | 1.3147 | 559.982 | Ă | 51.533 | 49.840 | 51.533 | 50.83 | 84.874 | 0.000 |
| 120.00-100.00 | | | | | | в | 51.533 | 49.840 | | 50.83 | 234.150 | 0.000 |
| | | | | | | С | 51.533 | 49.840 | | 50.83 | 83.474 | 0.000 |
| T14 | 90.00 | 1.238 | 7 | 1.3027 | 610.739 | Α | 51.471 | 52.577 | 51.471 | 49.47 | 84.672 | 0.000 |
| 100.00-80.00 | | | | | | в | 51.471 | 52.577 | | 49.47 | 250.822 | 0.000 |
| | | | | | | С | 51.471 | 52.577 | | 49.47 | 83.322 | 0.000 |
| T15 80.00-60.00 | 70.00 | 1.174 | 7 | 1.2953 | 666.426 | Α | 59.482 | 55.645 | 59.482 | 51.67 | 84.548 | 0.000 |
| | | | | | | B | 59.482 | 55.645 | | 51.67 | 256.871 | 0.000 |
| T1 ((0 00 00 00 00 | 1.00 | 1.07 | ~ | 1 0000 | 1004 50 1 | C | 59.482 | 55.645 | 00.105 | 51.67 | 83.229 | 0.000 |
| T16 60.00-30.00 | 45.00 | 1.07 | 8 | 1.2977 | 1094.584 | A | 89.196 | 91.278 | 89.196 | 49.42 | 126.883 | 0.000 |
| | | | | | | B | 89.196 | 91.278 | | 49.42 | 385.783 | 0.000 |
| T17 20 00 0 00 | 15.00 | 0.05 | 8 | 1 2020 | 1208 640 | C | 89.196 | 91.278 | 00.100 | 49.42 47.25 | 124.889 | 0.000 |
| T17 30.00-0.00 | 15.00 | 0.85 | 8 | 1.3028 | 1208.649 | A B | 90.189 90.189 | 100.698 100.698 | 90.189 | 47.25 47.25 | 105.842 322.322 | 0.000 0.000 |
| | | | | | | В С | 90.189 | 100.698 | | 47.25 | 522.522 104.154 | 0.000 |
| | | | | | | U | 20.102 | 100.098 | | 77.23 | 104.134 | 0.000 |

Tower Pressure - Service

 $G_H = 0.850$

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| wer | Job | 21007.82 - Colchester | Page 42 of 96 |
|--------------------------------|---------|--------------------------------|---------------------------|
| eering Inc. unford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| T 06405 488-0580 88-8587 | Client | Verizon | Designed by TJL |

| Section | Ζ | Kz | q_z | A_G | F | A_F | A_R | A_{leg} | Leg | $C_A A_A$ | $C_A A_A$ |
|---------------------|--------|---------|-------|--------------|--------|------------------|------------------|-----------|----------------|-------------------|------------------|
| Elevation | | | | | а | | | | % | In | Out |
| | | | | - 2 | с | | . 2 | - 2 | | Face | Face |
| ft | ft | | psf | ft² | е | ft^2 | ft^2 | ft^2 | | ft^2 | ft^2 |
| T1 | 312.00 | 1.608 | 13 | 116.377 | Α | 9.512 | 14.835 | 14.835 | 60.93 | 0.000 | 0.000 |
| 320.00-304.00 | | | | | В | 9.512 | 14.835 | | 60.93 | 5.561 | 0.000 |
| | | | | | С | 9.512 | 14.835 | | 60.93 | 0.000 | 0.000 |
| T2 | 302.00 | 1.597 | 13 | 29.094 | Α | 2.147 | 3.709 | 3.709 | 63.34 | 0.000 | 0.000 |
| 304.00-300.00 | | | | | В | 2.147 | 3.709 | | 63.34 | 1.540 | 0.000 |
| | | | | | C | 2.147 | 3.709 | | 63.34 | 0.000 | 0.000 |
| T3 | 290.00 | 1.584 | 12 | 167.656 | Α | 12.563 | 22.122 | 22.122 | 63.78 | 0.000 | 0.000 |
| 300.00-280.00 | | | | | B | 12.563 | 22.122 | | 63.78 | 13.483 | 0.000 |
| | 270.00 | 1.50 | 10 | 216.020 | C | 12.563 | 22.122 | 27.700 | 63.78 | 0.000 | 0.000 |
| T4 | 270.00 | 1.56 | 12 | 216.829 | A | 51.368 | 0.000 | 37.788 | 73.56 | 0.000 | 0.000 |
| 280.00-260.00 | | | | | B | 51.368 | 0.000 | | 73.56 | 26.676 | 0.000 |
| 7.5 | 250.00 | 1 5 2 5 | 10 | 250 120 | C | 51.368 | 0.000 | 27 770 | 73.56 | 0.000 | 0.000 |
| T5 260.00-240.00 | 250.00 | 1.535 | 12 | 259.126 | A B | 56.868 56.868 | $0.000 \\ 0.000$ | 37.778 | 66.43 66.43 | 0.000 37.174 | $0.000 \\ 0.000$ |
| 200.00-240.00 | | | | | C | 56.868 | 0.000 | | 66.43 | 0.000 | 0.000 |
| Т6 | 230.00 | 1.508 | 12 | 299.625 | A | 66.901 | 0.000 | 37.776 | 56.46 | 0.000 | 0.000 |
| 240.00-220.00 | 230.00 | 1.508 | 12 | 299.023 | B | 66.901 | 0.000 | 57.770 | 56.46 | 49.355 | 0.000 |
| 240.00-220.00 | | | | | C | 66.901 | 0.000 | | 56.46 | 0.000 | 0.000 |
| Т7 | 210.00 | 1.48 | 12 | 339.725 | A | 61.588 | 0.000 | 37.775 | 61.34 | 0.000 | 0.000 |
| 220.00-200.00 | 210.00 | 1.40 | 12 | 559.125 | B | 61.588 | 0.000 | 51.115 | 61.34 | 49.900 | 0.000 |
| 220.00-200.00 | | | | | c | 61.588 | 0.000 | | 61.34 | 30.160 | 0.000 |
| Т8 | 190.00 | 1.449 | 11 | 385.076 | Ă | 71.839 | 0.000 | 45.633 | 63.52 | 30.040 | 0.000 |
| 200.00-180.00 | 190.00 | 1.772 | | 505.070 | B | 71.839 | 0.000 | 45.055 | 63.52 | 49.900 | 0.000 |
| 200.00 100.00 | | | | | č | 71.839 | 0.000 | | 63.52 | 30.160 | 0.000 |
| Т9 | 175.00 | 1.424 | 11 | 208.387 | Ă | 36.864 | 0.000 | 22.815 | 61.89 | 15.020 | 0.000 |
| 180.00-170.00 | 1,2100 | | | 200.207 | В | 36.864 | 0.000 | 221010 | 61.89 | 27.055 | 0.000 |
| | | | | | C | 36.864 | 0.000 | | 61.89 | 15.080 | 0.000 |
| T10 | 165.00 | 1.406 | 11 | 218.787 | Α | 37.492 | 0.000 | 22.815 | 60.85 | 15.020 | 0.000 |
| 170.00-160.00 | | | | | в | 37.492 | 0.000 | | 60.85 | 29.412 | 0.000 |
| | | | | | С | 37.492 | 0.000 | | 60.85 | 15.080 | 0.000 |
| T11 | 150.00 | 1.378 | 11 | 467.070 | Α | 84.562 | 0.000 | 45.617 | 53.94 | 30.040 | 0.000 |
| 160.00-140.00 | | | | | В | 84.562 | 0.000 | | 53.94 | 65.283 | 0.000 |
| | | | | | C | 84.562 | 0.000 | | 53.94 | 30.160 | 0.000 |
| T12 | 130.00 | 1.337 | 11 | 507.978 | Α | 87.738 | 0.000 | 45.637 | 52.02 | 30.040 | 0.000 |
| 140.00-120.00 | | | | | В | 87.738 | 0.000 | | 52.02 | 71.886 | 0.000 |
| | | | | | C | 87.738 | 0.000 | | 52.02 | 30.160 | 0.000 |
| T13 | 110.00 | 1.291 | 11 | 555.591 | Α | 45.673 | 26.937 | 45.673 | 62.90 | 30.040 | 0.000 |
| 120.00-100.00 | | | | | В | 45.673 | 26.937 | | 62.90 | 76.650 | 0.000 |
| | | | | | С | 45.673 | 26.937 | | 62.90 | 30.160 | 0.000 |
| T14 | 90.00 | 1.238 | 10 | 606.388 | Α | 45.666 | 28.523 | 45.666 | 61.55 | 30.040 | 0.000 |
| 100.00-80.00 | | | | | В | 45.666 | 28.523 | | 61.55 | 83.818 | 0.000 |
| | | | | | C | 45.666 | 28.523 | | 61.55 | 30.160 | 0.000 |
| T15 | 70.00 | 1.174 | 10 | 662.098 | A | 53.708 | 30.518 | 53.708 | 63.77 | 30.040 | 0.000 |
| 80.00-60.00 | | | | | B | 53.708 | 30.518 | | 63.77 | 85.889 | 0.000 |
| | 17.00 | 1.07 | | 1000.00 | C | 53.708 | 30.518 | 00.702 | 63.77 | 30.160 | 0.000 |
| T16 | 45.00 | 1.07 | 11 | 1088.08 | A | 80.523 | 52.602 | 80.523 | 60.49 | 45.060 | 0.000 |
| 60.00-30.00 | | | | 3 | B | 80.523 | 52.602 | | 60.49 | 128.833 | 0.000 |
| T17 20 00 0 00 | 15.00 | 0.05 | 10 | 1202.12 | C | 80.523 | 52.602 | 01.400 | 60.49 | 45.240 | 0.000 |
| T17 30.00-0.00 | 15.00 | 0.85 | 12 | 1202.12 2 | A B | 81.480 81.480 | 59.240 59.240 | 81.480 | 57.90 57.90 | 37.550 107.361 | $0.000 \\ 0.000$ |
| | | | | 2 | В С | 81.480 81.480 | 59.240 59.240 | | 57.90 57.90 | 37.700 | 0.000 |
| | | | | | U | 01.400 | 59.240 | | 57.90 | 57.700 | 0.000 |

Tower Forces - No Ice - Wind Normal To Face

tnxTowe

| er | Job | 21007.82 - Colchester | Page 43 of 96 |
|-------------------------|---------|--------------------------------|---------------------------|
| ng Inc. d Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| 105 1580 587 | Client | Verizon | Designed by TJL |

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. |
|---------------------|---|-----------|--------|----------------|----------------|-------|---------|---------|------------------|-----------|--------|-------|
| Elevation | Weight | Weight | a | č | C_{F} | q_z | D_{T} | D_{R} | 11E | 1 | ** | Face |
| Literation | ,, eight | ,, eight | c | | | psf | | | | | | 1 400 |
| ft | lb | lb | е | | | 1-5 | | | ft^2 | lb | plf | |
| T1 | 15.90 | 1442.07 | Α | 0.209 | 2.566 | 69 | 1 | 1 | 16.204 | 2618.40 | 163.65 | С |
| 320.00-304.00 | | | В | 0.209 | 2.566 | | 1 | 1 | 16.204 | | | |
| | | | C | 0.209 | 2.566 | | 1 | 1 | 16.204 | | | |
| T2 | 4.36 | 349.72 | Α | 0.201 | 2.592 | 68 | 1 | 1 | 3.803 | 624.23 | 156.06 | С |
| 304.00-300.00 | | | В | 0.201 | 2.592 | | 1 | 1 | 3.803 | | | |
| | | | С | 0.201 | 2.592 | | 1 | 1 | 3.803 | | | |
| T3 | 40.00 | 2496.34 | Α | 0.207 | 2.573 | 68 | 1 | 1 | 22.512 | 3790.64 | 189.53 | С |
| 300.00-280.00 | | | B | 0.207 | 2.573 | | 1 | 1 | 22.512 | | | |
| | 07.40 | | C | 0.207 | 2.573 | (7 | 1 | 1 | 22.512 | 0104.45 | 105.00 | G |
| T4 280.00-260.00 | 87.48 | 5067.66 | A B | 0.237 0.237 | 2.477 2.477 | 67 | 1 | 1 | 51.368 | 8104.45 | 405.22 | С |
| 280.00-260.00 | | | Б С | 0.237 | 2.477 | | 1 | 1 | 51.368 51.368 | | | |
| Т5 | 122.62 | 5409.17 | A | 0.237 | 2.477 | 66 | 1 | 1 | 56.868 | 9259.42 | 462.97 | С |
| 260.00-240.00 | 122.02 | 5409.17 | B | 0.219 | 2.532 | 00 | 1 | 1 | 56.868 | 9239.42 | 402.97 | C |
| 200.00-240.00 | | | č | 0.219 | 2.532 | | 1 | 1 | 56.868 | | | |
| Т6 | 162.20 | 6484.36 | Ă | 0.223 | 2.52 | 64 | 1 | 1 | 66.901 | 10848.52 | 542.43 | С |
| 240.00-220.00 | 102.20 | 0.0.00 | В | 0.223 | 2.52 | 0. | 1 | 1 | 66.901 | 10010.02 | 0.2.10 | Ŭ |
| | | | Ĉ | 0.223 | 2.52 | | 1 | 1 | 66.901 | | | |
| T7 | 362.40 | 6406.00 | A | 0.181 | 2.66 | 63 | 1 | 1 | 61.588 | 11384.48 | 569.22 | С |
| 220.00-200.00 | | | В | 0.181 | 2.66 | | 1 | 1 | 61.588 | | | |
| | | | C | 0.181 | 2.66 | | 1 | 1 | 61.588 | | | |
| Т8 | 534.20 | 7298.65 | Α | 0.187 | 2.642 | 62 | 1 | 1 | 71.839 | 13482.76 | 674.14 | С |
| 200.00-180.00 | | | В | 0.187 | 2.642 | | 1 | 1 | 71.839 | | | |
| | | | C | 0.187 | 2.642 | | 1 | 1 | 71.839 | | | |
| Т9 | 272.46 | 3730.84 | Α | 0.177 | 2.675 | 61 | 1 | 1 | 36.864 | 6897.89 | 689.79 | С |
| 180.00-170.00 | | | В | 0.177 | 2.675 | | 1 | 1 | 36.864 | | | |
| | | | С | 0.177 | 2.675 | | 1 | 1 | 36.864 | | | |
| T10 | 279.59 | 3785.29 | Α | 0.171 | 2.694 | 60 | 1 | 1 | 37.492 | 7022.55 | 702.26 | С |
| 170.00-160.00 | | | В | 0.171 | 2.694 | | 1 | 1 | 37.492 | | | |
| | 570.20 | 0.000 50 | C | 0.171 | 2.694 | 50 | 1 | 1 | 37.492 | 15150 50 | 750.00 | |
| T11 | 579.39 | 9608.59 | A | 0.181 | 2.661 | 59 | 1 | 1 | 84.562 | 15179.59 | 758.98 | С |
| 160.00-140.00 | | | B C | 0.181 0.181 | 2.661 2.661 | | 1 | 1 | 84.562 84.562 | | | |
| T12 | 599.08 | 9975.29 | A | 0.131 | 2.601 | 58 | 1 | 1 | 87.738 | 15611.31 | 780.57 | С |
| 140.00-120.00 | 399.00 | 3973.29 | B | 0.173 | 2.69 | 50 | 1 | 1 | 87.738 | 15011.51 | /80.5/ | C |
| 140.00-120.00 | | | C | 0.173 | 2.69 | | 1 | 1 | 87.738 | | | |
| Т13 | 609.33 | 9144.95 | Ă | 0.131 | 2.844 | 57 | 1 | 1 | 60.219 | 12324.59 | 616.23 | С |
| 120.00-100.00 | 009.22 | 5111.55 | B | 0.131 | 2.844 | 51 | 1 | 1 | 60.219 | 12521.05 | 010.25 | Ũ |
| | | | Ċ | 0.131 | 2.844 | | 1 | 1 | 60.219 | | | |
| T14 | 625.08 | 9675.54 | Ā | 0.122 | 2.876 | 57 | 1 | 1 | 61.061 | 12604.51 | 630.23 | С |
| 100.00-80.00 | | | в | 0.122 | 2.876 | | 1 | 1 | 61.061 | | | |
| | | | C | 0.122 | 2.876 | | 1 | 1 | 61.061 | | | |
| T15 | 630.40 | 11450.50 | Α | 0.127 | 2.857 | 57 | 1 | 1 | 70.206 | 13903.45 | 695.17 | С |
| 80.00-60.00 | | | В | 0.127 | 2.857 | | 1 | 1 | 70.206 | | | |
| | | | С | 0.127 | 2.857 | | 1 | 1 | 70.206 | | | |
| T16 | 945.60 | 15115.36 | Α | 0.122 | 2.876 | 59 | 1 | 1 | 107.156 | 22039.49 | 734.65 | С |
| 60.00-30.00 | | | В | 0.122 | 2.876 | | 1 | 1 | 107.156 | | | |
| | | | С | 0.122 | 2.876 | | 1 | 1 | 107.156 | | | |
| T17 | 788.00 | 17941.94 | Α | 0.117 | 2.896 | 65 | 1 | 1 | 110.505 | 23685.38 | 789.51 | С |
| 30.00-0.00 | | | B | 0.117 | 2.896 | | 1 | | 110.505 | | | |
| | <pre>////////////////////////////////////</pre> | 107000.00 | С | 0.117 | 2.896 | | 1 | | 110.505 | 100001 (7 | | |
| Sum Weight: | 6658.09 | 125382.28 | | | | | | ОТМ | 25538.10 | 189381.67 | | |
| | | | | | | | | | kip-ft | | | |

Tower Forces - No Ice - Wind 45 To Face

tnxTov

| wer | Jop | 21007.82 - Colchester | Page 44 of 96 |
|----------------------------------|---------|--------------------------------|---------------------------|
| e ering Inc. mford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| T 06405 488-0580 88-8587 | Client | Verizon | Designed by TJL |

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | W | Ctrl. |
|---------------------|---------|-----------|--------|----------------|----------------|-------|----------------|--------|------------------|-----------|--------|-------|
| Elevation | Weight | Weight | а | | | _ | | | | | | Face |
| ft | lb | lb | с e | | | psf | | | ft^2 | lb | plf | |
| <u>j</u> i T1 | 15.90 | 1442.07 | A | 0.209 | 2.566 | 69 | 0.825 | 1 | 14.539 | 2369.39 | 148.09 | С |
| 320.00-304.00 | 15.90 | 1112.07 | B | 0.209 | 2.566 | 07 | 0.825 | 1 | 14.539 | 2507.57 | 110.09 | Č |
| | | | Ē | 0.209 | 2.566 | | 0.825 | ĩ | 14.539 | | | |
| T2 | 4.36 | 349.72 | Ā | 0.201 | 2.592 | 68 | 0.825 | 1 | 3.427 | 567.84 | 141.96 | С |
| 304.00-300.00 | | | В | 0.201 | 2.592 | | 0.825 | 1 | 3.427 | | | |
| | | | С | 0.201 | 2.592 | | 0.825 | 1 | 3.427 | | | |
| Т3 | 40.00 | 2496.34 | Α | 0.207 | 2.573 | 68 | 0.825 | 1 | 20.313 | 3465.81 | 173.29 | С |
| 300.00-280.00 | | | В | 0.207 | 2.573 | | 0.825 | 1 | 20.313 | | | |
| | | | С | 0.207 | 2.573 | | 0.825 | 1 | 20.313 | | | |
| T4 | 87.48 | 5067.66 | А | 0.237 | 2.477 | 67 | 0.825 | 1 | 42.379 | 6844.62 | 342.23 | С |
| 280.00-260.00 | | | В | 0.237 | 2.477 | | 0.825 | 1 | 42.379 | | | |
| | | | С | 0.237 | 2.477 | | 0.825 | 1 | 42.379 | | | ~ |
| T5 | 122.62 | 5409.17 | A | 0.219 | 2.532 | 66 | 0.825 | 1 | 46.916 | 7856.34 | 392.82 | С |
| 260.00-240.00 | | | B | 0.219 | 2.532 | | 0.825 | 1 | 46.916 | | | |
| T | 1(2.20 | (494.2) | C | 0.219 | 2.532 | () | 0.825 | 1 | 46.916 | 0000 (7 | 461.60 | C |
| T6 240.00-220.00 | 162.20 | 6484.36 | A B | 0.223 0.223 | 2.52 2.52 | 64 | 0.825 0.825 | 1 | 55.194 55.194 | 9233.67 | 461.68 | С |
| 240.00-220.00 | | | Б С | 0.223 | 2.52 | | 0.825 | - | 55.194 | | | |
| Т7 | 362.40 | 6406.00 | A | 0.225 | 2.52 | 63 | 0.825 | 1 1 | 50.810 | 9843.96 | 492.20 | с |
| 220.00-200.00 | 502.40 | 0400.00 | B | 0.181 | 2.66 | 05 | 0.825 | 1 | 50.810 | 9645.90 | 492.20 | C |
| 220.00-200.00 | | | C | 0.181 | 2.66 | | 0.825 | 1 | 50.810 | | | |
| Т8 | 534.20 | 7298.65 | Ă | 0.181 | 2.642 | 62 | 0.825 | 1 | 59.267 | 11732.56 | 586.63 | С |
| 200.00-180.00 | 554.20 | 7290.05 | B | 0.187 | 2.642 | 02 | 0.825 | 1 | 59.267 | 11752.50 | 500.05 | Č |
| 200.00 100.00 | | | č | 0.187 | 2.642 | | 0.825 | 1 | 59.267 | | | |
| Т9 | 272.46 | 3730.84 | Ă | 0.177 | 2.675 | 61 | 0.825 | 1 | 30.413 | 6002.24 | 600.22 | С |
| 180.00-170.00 | | 2,20101 | В | 0.177 | 2.675 | | 0.825 | 1 | 30.413 | 0002121 | 000.22 | Ũ |
| | | | С | 0.177 | 2.675 | | 0.825 | 1 | 30.413 | | | |
| T10 | 279.59 | 3785.29 | Α | 0.171 | 2.694 | 60 | 0.825 | 1 | 30.931 | 6114.55 | 611.46 | С |
| 170.00-160.00 | | | В | 0.171 | 2.694 | | 0.825 | 1 | 30.931 | | | |
| | | | С | 0.171 | 2.694 | | 0.825 | 1 | 30.931 | | | |
| T11 | 579.39 | 9608.59 | Α | 0.181 | 2.661 | 59 | 0.825 | 1 | 69.763 | 13189.24 | 659.46 | С |
| 160.00-140.00 | | | В | 0.181 | 2.661 | | 0.825 | 1 | 69.763 | | | |
| | | | С | 0.181 | 2.661 | | 0.825 | 1 | 69.763 | | | |
| T12 | 599.08 | 9975.29 | Α | 0.173 | 2.69 | 58 | 0.825 | 1 | 72.384 | 13566.16 | 678.31 | С |
| 140.00-120.00 | | | В | 0.173 | 2.69 | | 0.825 | 1 | 72.384 | | | |
| | | | C | 0.173 | 2.69 | | 0.825 | 1 | 72.384 | | | ~ |
| T13 | 609.33 | 9144.95 | A | 0.131 | 2.844 | 57 | 0.825 | 1 | 52.226 | 11218.90 | 560.95 | С |
| 120.00-100.00 | | | B C | 0.131 | 2.844 | | 0.825 | 1 | 52.226 | | | |
| T14 | 625.08 | 9675.54 | A | 0.131 0.122 | 2.844 2.876 | 57 | 0.825 0.825 | 1 | 52.226 53.069 | 11498.90 | 574.95 | с |
| 100.00-80.00 | 025.08 | 9075.54 | B | 0.122 | 2.876 | 57 | 0.825 | 1 | 53.069 | 11498.90 | 5/4.95 | C |
| 100.00-80.00 | | | C | 0.122 | 2.876 | | 0.825 | 1 | 53.069 | | | |
| T15 | 630.40 | 11450.50 | Ă | 0.122 | 2.870 | 57 | 0.825 | 1 | 60.807 | 12608.13 | 630.41 | С |
| 80.00-60.00 | 050.40 | 11450.50 | B | 0.127 | 2.857 | 57 | 0.825 | 1 | 60.807 | 12000.15 | 050.41 | Č |
| 00.00-00.00 | | | C | 0.127 | 2.857 | | 0.825 | 1 | 60.807 | | | |
| T16 | 945.60 | 15115.36 | Ă | 0.127 | 2.876 | 59 | 0.825 | 1 | 93.064 | 20007.96 | 666.93 | С |
| 60.00-30.00 | 2.2.00 | | B | 0.122 | 2.876 | | 0.825 | 1 | 93.064 | 22507.00 | 220000 | ~ |
| | | | č | 0.122 | 2.876 | | 0.825 | 1 | 93.064 | | | |
| T17 | 788.00 | 17941.94 | Ă | 0.117 | 2.896 | 65 | 0.825 | | 96.246 | 21408.56 | 713.62 | С |
| 30.00-0.00 | | | В | 0.117 | 2.896 | ' | 0.825 | ĩ | 96.246 | | | |
| | | | С | 0.117 | 2.896 | | 0.825 | 1 | 96.246 | | | |
| Sum Weight: | 6658.09 | 125382.28 | | | | | | OTM | 22322.43 | 167528.83 | | |
| | | | | | | | | | kip-ft | | | |
| | | | | | | | | | | | | |

tnxTower

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

| Job | | Page |
|---------|--------------------------------|-------------------|
| | 21007.82 - Colchester | 45 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | | Designed by |
| | Verizon | TJL |

| | | | | | | 5 11 | 0 100 | | | TO Face | | |
|----------------------|---------|-----------|--------|----------------|----------------|-------|------------|--|------------------|-----------|--------|-------|
| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. |
| Elevation | Weight | Weight | a | - | -1 | 72 | -1 | - 1 | 2 | - | ,, | Face |
| | U | 2 | с | | | psf | | | | | | |
| ft | lb | lb | е | | | | | | ft^2 | lb | plf | |
| T1 | 15.90 | 1442.07 | Α | 0.209 | 2.566 | 69 | 0.8 | 1 | 14.302 | 2333.81 | 145.86 | С |
| 320.00-304.00 | | | В | 0.209 | 2.566 | | 0.8 | 1 | 14.302 | | | |
| | | | C | 0.209 | 2.566 | | 0.8 | 1 | 14.302 | | | |
| T2 | 4.36 | 349.72 | A | 0.201 | 2.592 | 68 | 0.8 | 1 | 3.373 | 559.79 | 139.95 | С |
| 304.00-300.00 | | | B | 0.201 | 2.592 | | 0.8 | 1 | 3.373 | | | |
| T2 | 10.00 | 2406.24 | C | 0.201 | 2.592 | (0) | 0.8 | 1 | 3.373 | 2410.40 | 170.07 | C |
| T3 300.00-280.00 | 40.00 | 2496.34 | A | 0.207 0.207 | 2.573 2.573 | 68 | 0.8 0.8 | 1 | 19.999 19.999 | 3419.40 | 170.97 | С |
| 500.00-280.00 | | | B C | 0.207 | 2.573 | | 0.8 | 1 | 19.999 | | | |
| T4 | 87.48 | 5067.66 | A | 0.207 | 2.373 | 67 | 0.8 | 1 | 41.095 | 6664.65 | 333.23 | С |
| 280.00-260.00 | 07.40 | 5007.00 | B | 0.237 | 2.477 | 07 | 0.8 | 1 | 41.095 | 0004.05 | 555.25 | C |
| 200.00-200.00 | | | C | 0.237 | 2.477 | | 0.8 | 1 | 41.095 | | | |
| Т5 | 122.62 | 5409.17 | Ă | 0.219 | 2.532 | 66 | 0.8 | 1 | 45.494 | 7655.90 | 382.79 | С |
| 260.00-240.00 | 122.02 | 2.00/11/ | B | 0.219 | 2.532 | 00 | 0.8 | | 45.494 | , 000190 | 202119 | č |
| | | | č | 0.219 | 2.532 | | 0.8 | 1 | 45.494 | | | |
| Т6 | 162.20 | 6484.36 | Ă | 0.223 | 2.52 | 64 | 0.8 | 1 | 53.521 | 9002.97 | 450.15 | С |
| 240.00-220.00 | • | | В | 0.223 | 2.52 | | 0.8 | 1 | 53.521 | / | | - |
| | | | С | 0.223 | 2.52 | | 0.8 | 1 | 53.521 | | | |
| T7 | 362.40 | 6406.00 | Α | 0.181 | 2.66 | 63 | 0.8 | 1 | 49.270 | 9623.88 | 481.19 | С |
| 220.00-200.00 | | | В | 0.181 | 2.66 | | 0.8 | 1 | 49.270 | | | |
| | | | С | 0.181 | 2.66 | | 0.8 | 1 | 49.270 | | | |
| Т8 | 534.20 | 7298.65 | Α | 0.187 | 2.642 | 62 | 0.8 | 1 | 57.471 | 11482.53 | 574.13 | С |
| 200.00-180.00 | | | В | 0.187 | 2.642 | | 0.8 | 1 | 57.471 | | | |
| | | | С | 0.187 | 2.642 | | 0.8 | 1 | 57.471 | | | |
| Т9 | 272.46 | 3730.84 | Α | 0.177 | 2.675 | 61 | 0.8 | 1 | 29.491 | 5874.29 | 587.43 | С |
| 180.00-170.00 | | | В | 0.177 | 2.675 | | 0.8 | 1 | 29.491 | | | |
| | | | С | 0.177 | 2.675 | | 0.8 | 1 | 29.491 | | | |
| T10 | 279.59 | 3785.29 | Α | 0.171 | 2.694 | 60 | 0.8 | 1 | 29.994 | 5984.84 | 598.48 | С |
| 170.00-160.00 | | | В | 0.171 | 2.694 | | 0.8 | 1 | 29.994 | | | |
| | | | C | 0.171 | 2.694 | | 0.8 | 1 | 29.994 | | | |
| T11 | 579.39 | 9608.59 | A | 0.181 | 2.661 | 59 | 0.8 | 1 | 67.649 | 12904.91 | 645.25 | С |
| 160.00-140.00 | | | В | 0.181 | 2.661 | | 0.8 | 1 | 67.649 | | | |
| | 500.00 | 0075.00 | C | 0.181 | 2.661 | - | 0.8 | 1 | 67.649 | 1225100 | | 0 |
| T12 | 599.08 | 9975.29 | A | 0.173 | 2.69 | 58 | 0.8 | | 70.190 | 13274.00 | 663.70 | С |
| 140.00-120.00 | | | B | 0.173 | 2.69 | | 0.8 | | 70.190 | | | |
| T12 | 600.22 | 0144.05 | C | 0.173 | 2.69 | 57 | 0.8 | | 70.190 | 11060.05 | 552 05 | C |
| T13 120.00-100.00 | 609.33 | 9144.95 | A B | 0.131 0.131 | 2.844 2.844 | 57 | 0.8 0.8 | 1 | 51.085 51.085 | 11060.95 | 553.05 | С |
| 120.00-100.00 | | | Б С | 0.131 | 2.844 | | 0.8 | 1 | 51.085 | | | |
| T14 | 625.08 | 9675.54 | Ă | 0.131 | 2.844 | 57 | 0.8 | 1 | 51.085 | 11340.96 | 567.05 | С |
| 100.00-80.00 | 025.08 | 9075.54 | B | 0.122 | 2.876 | 57 | 0.8 | 1 | 51.928 | 11540.90 | 507.05 | C |
| 100.00-80.00 | | | C | 0.122 | 2.876 | | 0.8 | 1 | 51.928 | | | |
| T15 | 630.40 | 11450.50 | | 0.122 | | 57 | | 1 | 59.464 | 12423.09 | 621.15 | С |
| 80.00-60.00 | 050.40 | 11450.50 | B | 0.127 | 2.857 | 57 | 0.8 | 1 | 59.464 | 12423.03 | 021.13 | C |
| 30.00-00.00 | | | C | 0.127 | 2.857 | | 0.8 | | 59.464 | | | |
| Т16 | 945.60 | 15115.36 | A | 0.127 | 2.857 | 59 | 0.8 | | 91.051 | 19717.74 | 657.26 | С |
| 60.00-30.00 | 245.00 | 15115.50 | B | 0.122 | 2.876 | 57 | 0.8 | | 91.051 | 12/1/./4 | 057.20 | C |
| 50.00-50.00 | | | C | 0.122 | 2.876 | | 0.8 | | 91.051 | | | |
| T17 | 788.00 | 17941.94 | Ă | 0.122 | 2.896 | 65 | 0.8 | | 94.209 | 21083.30 | 702.78 | С |
| 30.00-0.00 | , 50100 | | B | 0.117 | 2.896 | 00 | 0.8 | | 94.209 | 21000.00 | | ÷ |
| 20100 0100 | | | Č | 0.117 | 2.896 | | 0.8 | $\begin{vmatrix} 1 \\ 1 \end{vmatrix}$ | 94.209 | | | |
| Sum Weight: | 6658.09 | 125382.28 | | | | | | OTM | 21863.05 | 164406.99 | | |
| | | | | | | | | | kip-ft | | | |

Tower Forces - No Ice - Wind 60 To Face

tnxTowe

| | Job | | Page |
|------|---------|--------------------------------|-------------------|
| | | 21007.82 - Colchester | 46 of 96 |
| Inc. | Project | | Date |
| п. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | Mada | Designed by |
| | | Verizon | TJL |

| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | - | Το | wer Fo | orce | s - N | o Ice | e - W | ind 90 | To Face | ; | |
|---|---------------|---------|---|----|--------|-------|-------|-------|--------------|--------|-----------|--------|------|
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | е | C_F | q_z | D_F | D_R | A_E | F | W | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Elevation | Weight | Weight | | | | nef | | | | | | Face |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | ft | lb | lb | | | | psj | | | ft^2 | lb | plf | |
| 320.00-304.00 | | | | | 0.209 | 2.566 | 69 | 0.85 | 1 | | | | С |
| 1 34.3 349.7 A 0.00 2.50 6.85 1 3.481 575.90 143.97 C 304.00-30.00 - 0.200 2.502 0.85 1 3.481 - - 300.00-280.00 - 0.200 2.573 6 0.85 1 2.0627 - | 320.00-304.00 | | | В | 0.209 | | | 0.85 | 1 | 14.777 | | | |
| 304.00-30.00 - B 0.201 2.592 0.85 1 3.481 - - - 300.00-280.00 - - 0.0217 2.573 0.85 1 20.027 351.2.1 1.75.61 C 300.00-280.00 - 0.027 2.573 0.85 1 20.027 - 351.2.1 1.75.61 C 280.00-260.00 - 0.237 2.477 7 0.85 1 43.663 - - 260.00-260.00 - C 0.237 2.477 0.85 1 48.338 8056.78 402.84 C 260.00-20.00 - B 0.212 2.52 0.85 1 48.338 8056.78 402.84 C 260.00-20.00 - B 0.212 2.52 0.85 1 56.866 - 303.20 C 220.00-20.00 - C 0.223 2.52 0.85 1 56.866 - 30.32 </td <td></td> <td></td> <td></td> <td>С</td> <td>0.209</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> | | | | С | 0.209 | | | | 1 | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | 4.36 | 349.72 | Α | | | 68 | | 1 | | 575.90 | 143.97 | С |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 304.00-300.00 | | | | | | | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | T 2 | 10.00 | 2406.24 | | | | (0) | | | | 2512.21 | 175 (1 | |
| 14 8 8 6 0.207 2.477 67 0.85 1 4.3.663 7024.60 51.23 C 280.00-260.00 - - C 0.237 2.477 0.85 1 43.663 - 0.85 1 43.633 - - - - - 0.00 - - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | | 40.00 | 2496.34 | | | | 68 | | | | 3512.21 | 1/5.61 | C |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 300.00-280.00 | | | | | | | | | | | | |
| 280.00-260.00 P P P C 0.237 2.477 0.85 1 43.663 P P P 260.00-240.00 P 122.62 5409.17 A 0.219 2.532 0.85 1 48.338 8056.78 402.84 C P 260.00-240.00 P 6484.36 A 0.223 2.52 0.85 1 55.866 9464.36 473.22 C 240.00-220.00 P P C 0.223 2.52 0.85 1 55.866 9464.36 473.22 C 220.00-200.00 P P C 0.181 2.66 0.85 1 52.350 10064.03 503.20 C 200.00-180.00 P C 0.187 2.642 0.85 1 61.063 P P 2.64 0.85 1 31.334 6130.19 61.30.2 C P P P P P P P P P | т4 | 87 48 | 5067.66 | | | | 67 | | | | 7024.60 | 351 23 | C |
| state c C 0.237 2.47 state 1 43.663 state | | 07.70 | 5007.00 | | | | 07 | | | | /024.00 | 551.25 | C |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 200.00 200.00 | | | | | | | | 1 | | | | |
| 260.00-240.00 P B 0.219 2.332 0.85 1 48.338 P P P P 240.00-220.00 - 6484.36 A 0.223 2.52 64 0.85 1 56.866 9464.36 473.22 C C 220.00-200.00 - 0 0.233 2.52 0.85 1 56.866 9464.36 503.20 C C 220.00-200.00 - 0 0.85 1 52.350 10064.03 503.20 C C 220.00-200.00 - C 0.181 2.66 0.85 1 52.350 10064.03 503.20 C 200.00-180.00 - C 0.181 2.642 0.85 1 61.063 11982.59 599.13 C C 100.00-170.00 - C 0.187 2.675 6.85 1 31.344 613.019 63.02 C 0.177 2.675 0.85 1 31.3 | Т5 | 122.62 | 5409.17 | | | | 66 | | 1 | | 8056.78 | 402.84 | С |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | 1 | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | С | 0.219 | 2.532 | | | 1 | 48.338 | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 162.20 | 6484.36 | Α | | | 64 | | 1 | | 9464.36 | 473.22 | С |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 240.00-220.00 | | | | | | | 0.85 | 1 | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 362.40 | 6406.00 | | | | 63 | | | | 10064.03 | 503.20 | С |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 220.00-200.00 | | | | | | | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | TO | 524.20 | 7209 (5 | | | | () | | | | 11092.50 | 500.12 | C |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | 554.20 | /298.03 | | | | 62 | | | | 11982.59 | 599.15 | C |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 200.00-180.00 | | | | | | | | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | тө | 272 46 | 3730.84 | | | | 61 | | | | 6130.19 | 613.02 | C |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 2/2:10 | 5750101 | | | | 01 | | | | 0150.15 | 015.02 | Ũ |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 100.00 170.00 | | | | | | | 0.85 | | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | T10 | 279.59 | 3785.29 | Α | | | 60 | | 1 | | 6244.27 | 624.43 | С |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 170.00-160.00 | | | В | 0.171 | 2.694 | | 0.85 | 1 | 31.869 | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | С | 0.171 | 2.694 | | | 1 | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 579.39 | 9608.59 | | | | 59 | | 1 | | 13473.58 | 673.68 | С |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 160.00-140.00 | | | | | | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | - | | | | | | ~ |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 599.08 | 9975.29 | | | | 58 | | | | 13858.33 | 692.92 | С |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 140.00-120.00 | | | | | | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | т13 | 609 33 | 0144 05 | | | | 57 | | | | 11376.86 | 568 84 | C |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 009.55 | 9144.95 | | | | 57 | | | | 11570.80 | 500.04 | C |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 120.00-100.00 | | | | | | | | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | T14 | 625.08 | 9675.54 | | | | 57 | | 1 | | 11656.85 | 582.84 | С |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 020100 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | ĩ | | | | - |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | 0.85 | 1 | | | | |
| T16 945.60 15115.36 C 0.127 2.857 0.85 1 62.150 20298.18 676.61 C 60.00-30.00 15115.36 A 0.122 2.876 59 0.85 1 95.078 20298.18 676.61 C 60.00-30.00 B 0.122 2.876 0.85 1 95.078 20298.18 676.61 C 717 788.00 17941.94 A 0.117 2.896 65 0.85 1 98.283 21733.82 724.46 C 30.00-0.00 B 0.117 2.896 65 0.85 1 98.283 21733.82 724.46 C Sum Weight: 6658.09 125382.28 Image: Colored and the second and the | T15 | 630.40 | 11450.50 | Α | | | 57 | | 1 | | 12793.18 | 639.66 | С |
| T16 945.60 15115.36 A 0.122 2.876 59 0.85 1 95.078 20298.18 676.61 C 60.00-30.00 B 0.122 2.876 0.85 1 95.078 20298.18 676.61 C 788.00 17941.94 A 0.117 2.896 65 0.85 1 98.283 21733.82 724.46 C 30.00-0.00 B 0.117 2.896 65 0.85 1 98.283 21733.82 724.46 C Sum Weight: 6658.09 125382.28 V V V OTM 22781.81 170650.66 V V | 80.00-60.00 | | | В | 0.127 | 2.857 | | | 1 | 62.150 | | | |
| 60.00-30.00 B 0.122 2.876 0.85 1 95.078 5 | | | | | | | | | 1 | | | | |
| T17 788.00 17941.94 A 0.117 2.896 65 0.85 1 95.078 21733.82 724.46 C 30.00-0.00 B 0.117 2.896 65 0.85 1 98.283 21733.82 724.46 C 30.00-0.00 B 0.117 2.896 0.85 1 98.283 21733.62 724.46 C Sum Weight: 6658.09 125382.28 C 0.117 2.896 0.85 1 98.283 170650.66 C | | 945.60 | 15115.36 | | | | 59 | | | | 20298.18 | 676.61 | С |
| T17 788.00 17941.94 A 0.117 2.896 65 0.85 1 98.283 21733.82 724.46 C 30.00-0.00 B 0.117 2.896 0.85 1 98.283 21733.82 724.46 C 30.00-0.00 C 0.117 2.896 0.85 1 98.283 | 60.00-30.00 | | | | | | | | | | | | |
| 30.00-0.00 B 0.117 2.896 0.85 1 98.283 Sum Weight: 6658.09 125382.28 0 1 98.283 000000000000000000000000000000000000 | T 17 | 700.00 | 17041.04 | | | | 15 | | | | 01700.00 | 704.44 | |
| Sum Weight: 6658.09 125382.28 C 0.117 2.896 0.85 1 98.283 0 Sum Weight: 6658.09 125382.28 0 0 0 0 1 98.283 170650.66 | | /88.00 | 1/941.94 | | | | 65 | | | | 21733.82 | /24.46 | C |
| Sum Weight: 6658.09 125382.28 OTM 22781.81 170650.66 | 50.00-0.00 | | | | | | | | | | | | |
| | Sum Weight | 6658.09 | 125382.28 | | 0.11/ | 2.090 | | 0.65 | | | 170650.66 | | |
| | Sum weight. | 0050.09 | 125502.20 | | | | | | U I M | kip-ft | 170050.00 | | |

\A/:

tnxTo

| 'ower | Job | 21007.82 - Colchester | Page 47 of 96 |
|--|---------|--------------------------------|---------------------------|
| ineering Inc. Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| , CT 06405 3) 488-0580 3) 488-8587 | Client | Verizon | Designed by TJL |

| | | Том | Wind Normal To Face | | | | | | | | | | | |
|----------------------|----------|-----------|---------------------|----------------|----------------|-------|-------|-------|------------------|----------|--------|-------|--|--|
| | | | | | | | | | | | | | | |
| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. | | |
| Elevation | Weight | Weight | a | | | naf | | | | | | Face | | |
| ft | lb | lb | с е | | | psf | | | ft ² | lb | plf | | | |
| | 261.85 | 3479.11 | A | 0.397 | 2.071 | 9 | 1 | 1 | 33.738 | 619.55 | 38.72 | С | | |
| 320.00-304.00 | | | В | 0.397 | 2.071 | - | 1 | 1 | 33.738 | | | | | |
| | | | C | 0.397 | 2.071 | | 1 | 1 | 33.738 | | | | | |
| T2 | 71.62 | 821.79 | Α | 0.376 | 2.114 | 9 | 1 | 1 | 7.871 | 150.08 | 37.52 | С | | |
| 304.00-300.00 | | | В | 0.376 | 2.114 | | 1 | 1 | 7.871 | | | | | |
| | | | C | 0.376 | 2.114 | | 1 | 1 | 7.871 | | | | | |
| T3 | 592.40 | 5152.34 | A | 0.361 | 2.147 | 9 | 1 | 1 | 43.335 | 900.25 | 45.01 | С | | |
| 300.00-280.00 | | | B | 0.361 | 2.147 | | | | 43.335 | | | | | |
| T4 | 1098.70 | 9553.22 | C | 0.361 0.33 | 2.147 2.219 | 8 | | 1 | 43.335 67.075 | 1463.66 | 73.18 | С | | |
| 280.00-260.00 | 1096.70 | 9333.22 | A B | 0.33 | 2.219 | 0 | 1 | 1 | 67.075 | 1405.00 | /5.10 | C | | |
| 280.00-200.00 | | | C | 0.33 | 2.219 | | 1 | 1 | 67.075 | | | | | |
| Т5 | 1465.07 | 10434.30 | A | 0.307 | 2.219 | 8 | 1 | | 73.915 | 1701.59 | 85.08 | С | | |
| 260.00-240.00 | | | B | 0.307 | 2.277 | 5 | Î | Î | 73.915 | | | | | |
| | | | С | 0.307 | 2.277 | | 1 | 1 | 73.915 | | | | | |
| Т6 | 1898.59 | 12452.94 | Α | 0.307 | 2.277 | 8 | 1 | 1 | 85.350 | 2002.42 | 100.12 | С | | |
| 240.00-220.00 | | | В | 0.307 | 2.277 | | 1 | 1 | 85.350 | | | | | |
| | | | С | 0.307 | 2.277 | | 1 | 1 | 85.350 | | | | | |
| T7 | 3016.37 | 11683.11 | Α | 0.245 | 2.454 | 8 | 1 | 1 | 77.376 | 2286.43 | 114.32 | С | | |
| 220.00-200.00 | | | B | 0.245 | 2.454 | | 1 | 1 | 77.376 | | | | | |
| T 0 | 1001 (7 | 12202.41 | C | 0.245 | 2.454 | 0 | 1 | | 77.376 | 27(2)(4 | 120.10 | C | | |
| T8 200.00-180.00 | 4081.67 | 13202.41 | A | 0.246 0.246 | 2.449 | 8 | | | 88.444 | 2763.64 | 138.18 | С | | |
| 200.00-180.00 | | | B C | 0.246 | 2.449 2.449 | | 1 | 1 | 88.444 88.444 | | | | | |
| Т9 | 2112.84 | 6756.36 | A | 0.240 | 2.449 | 8 | 1 | 1 | 45.455 | 1420.22 | 142.02 | С | | |
| 180.00-170.00 | 2112.04 | 0750.50 | B | 0.235 | 2.484 | 0 | 1 | 1 | 45.455 | 1420.22 | 142.02 | C | | |
| 100.00 170.00 | | | Č | 0.235 | 2.484 | | 1 | 1 | 45.455 | | | | | |
| T10 | 2205.64 | 6858.43 | A | 0.228 | 2.504 | 8 | 1 | 1 | 46.272 | 1460.30 | 146.03 | С | | |
| 70.00-160.00 | | | В | 0.228 | 2.504 | | 1 | 1 | 46.272 | | | | | |
| | | | C | 0.228 | 2.504 | | 1 | 1 | 46.272 | | | | | |
| T11 | 4581.87 | 16563.91 | Α | 0.236 | 2.479 | 8 | 1 | 1 | 102.718 | 3088.60 | 154.43 | С | | |
| 160.00-140.00 | | | В | 0.236 | 2.479 | | 1 | 1 | 102.718 | | | | | |
| | | | С | 0.236 | 2.479 | | 1 | 1 | 102.718 | | | | | |
| T12 | 4759.58 | 17156.52 | A | 0.226 | 2.51 | 7 | 1 | 1 | 106.625 | 3177.75 | 158.89 | С | | |
| 140.00-120.00 | | | B | 0.226 | 2.51 | | 1 | | 106.625 | | | | | |
| T12 | 1076 64 | 15024.42 | C | 0.226 | 2.51 | 7 | | | 106.625 | 2010.22 | 140.07 | с | | |
| T13 120.00-100.00 | 4836.64 | 15024.43 | A B | 0.181 0.181 | 2.661 2.661 | 7 | | 1 | 80.012 80.012 | 2819.23 | 140.96 | C | | |
| 120.00-100.00 | | | C | 0.181 | 2.661 | | 1 | | 80.012 | | | | | |
| T14 | 4985.09 | 15674.17 | Ă | 0.181 | 2.698 | 7 | 1 | 1 | 81.435 | 2890.06 | 144.50 | С | | |
| 100.00-80.00 | 4705.07 | 15074.17 | B | 0.17 | 2.698 | | 1 | 1 | 81.435 | 2090.00 | 144.50 | Č | | |
| 100.00 00.00 | | | Ĉ | 0.17 | | | 1 | 1 | 81.435 | | | | | |
| T15 | 5030.92 | 18017.30 | Ā | 0.173 | 2.69 | 7 | 1 | 1 | 91.214 | 3076.92 | 153.85 | С | | |
| 80.00-60.00 | | | B | 0.173 | 2.69 | | 1 | Î | 91.214 | | | | | |
| | | | С | 0.173 | 2.69 | | 1 | 1 | 91.214 | | | | | |
| T16 | 7561.96 | 25360.00 | Α | 0.165 | 2.717 | 8 | 1 | 1 | 141.153 | 4898.66 | 163.29 | С | | |
| 60.00-30.00 | | | В | 0.165 | 2.717 | | 1 | 1 | 141.153 | | | | | |
| | | | C | 0.165 | 2.717 | | 1 | 1 | 141.153 | | | ~ | | |
| T17 | 6329.02 | 28872.58 | A | 0.158 | 2.743 | 8 | 1 | | 147.426 | 5088.95 | 169.63 | С | | |
| 30.00-0.00 | | | B | 0.158 | 2.743 | | 1 | 1 | 147.426 | | | | | |
| Sum Walaht | 51000 00 | 217062.04 | С | 0.158 | 2.743 | | 1 | | 147.426 | 20000 22 | | | | |
| Sum Weight: | 54889.82 | 217062.94 | | | | | | OTM | 5234.35 | 39808.33 | | | | |
| | | | | | | | | | kip-ft | | | | | |

tnxTo

| awan | Job | | Page |
|--|---------|--------------------------------|--------------------|
| ower | | 21007.82 - Colchester | 48 of 96 |
| ineering Inc. | Project | | Date |
| Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| . CT 06405 3) 488-0580 8) 488-8587 | Client | Verizon | Designed by TJL |

| | | Т | ow | er Fo | rces | - Wi | th Ic | e - V | Vind 45 | To Fac | е | |
|----------------------|---------------|------------------|--------|------------------|--------------|-------|----------------|-------|-------------------|----------|--------|---------------|
| Santian | Add | \mathbf{r}_{c} | F | 6 | C | ~ | D | D | | F | | Cul |
| Section Elevation | Aaa Weight | Self Weight | r a | е | C_F | q_z | D_F | D_R | A_E | r | W | Ctrl. Face |
| Lievanon | neigni | neigni | c u | | | psf | | | | | | Tuce |
| ft | lb | lb | e | | | P-J | | | ft^2 | lb | plf | |
| T1 | 261.85 | 3479.11 | Α | 0.397 | 2.071 | 9 | 0.825 | 1 | 32.074 | 593.92 | 37.12 | С |
| 320.00-304.00 | | | В | 0.397 | 2.071 | | 0.825 | 1 | 32.074 | | | |
| | | | C | 0.397 | 2.071 | | 0.825 | 1 | 32.074 | | | |
| T2 | 71.62 | 821.79 | Α | 0.376 | 2.114 | 9 | 0.825 | 1 | 7.495 | 144.22 | 36.05 | С |
| 304.00-300.00 | | | В | 0.376 | 2.114 | | 0.825 | 1 | 7.495 | | | |
| | | | C | 0.376 | 2.114 | | 0.825 | 1 | 7.495 | | | |
| T3 | 592.40 | 5152.34 | Α | 0.361 | 2.147 | 9 | 0.825 | 1 | 41.136 | 865.67 | 43.28 | С |
| 300.00-280.00 | | | В | 0.361 | 2.147 | | 0.825 | 1 | 41.136 | | | |
| | | | C | 0.361 | 2.147 | | 0.825 | 1 | 41.136 | | | _ |
| T4 | 1098.70 | 9553.22 | A | 0.33 | 2.219 | 8 | 0.825 | 1 | 56.980 | 1301.99 | 65.10 | С |
| 280.00-260.00 | | | B | 0.33 | 2.219 | | 0.825 | 1 | 56.980 | | | |
| | 1465.05 | 10 10 1 00 | C | 0.33 | 2.219 | 0 | 0.825 | | 56.980 | 1500.04 | 26.15 | a |
| T5 | 1465.07 | 10434.30 | A | 0.307 | 2.277 | 8 | 0.825 | | 62.866 | 1522.94 | 76.15 | С |
| 260.00-240.00 | | | B | 0.307 | 2.277 | | 0.825 | | 62.866 | | | |
| | 1000 50 | 10450.01 | C | 0.307 | 2.277 | | 0.825 | | 62.866 | 1500.00 | 00.05 | ~ |
| T6 | 1898.59 | 12452.94 | A | 0.307 | 2.277 | 8 | 0.825 | | 72.554 | 1799.00 | 89.95 | С |
| 240.00-220.00 | | | B | 0.307 | 2.277 | | 0.825 | | 72.554 | | | |
| | 2016.05 | 11.000.11 | C | 0.307 | 2.277 | 0 | 0.825 | | 72.554 | 2005.01 | 104.25 | G |
| T7 | 3016.37 | 11683.11 | A | 0.245 | 2.454 | 8 | 0.825 | | 65.519 | 2087.01 | 104.35 | С |
| 220.00-200.00 | | | B | 0.245 | 2.454 | | 0.825 | | 65.519 | | | |
| | 1001 (5 | 10000 11 | C | 0.245 | 2.454 | | 0.825 | | 65.519 | | 10/07 | ~ |
| T8 | 4081.67 | 13202.41 | A | 0.246 | 2.449 | 8 | 0.825 | 1 | 74.803 | 2539.07 | 126.95 | С |
| 200.00-180.00 | | | B | 0.246 | 2.449 | | 0.825 | | 74.803 | | | |
| T 0 | 2112.04 | (77) | C | 0.246 | 2.449 | 0 | 0.825 | | 74.803 | 1205 41 | 100 54 | a |
| T9 | 2112.84 | 6756.36 | A | 0.235 | 2.484 | 8 | 0.825 | | 38.473 | 1305.41 | 130.54 | С |
| 80.00-170.00 | | | B | 0.235 | 2.484 | | 0.825 | | 38.473 | | | |
| 710 | 2205 (4 | 6050 40 | C | 0.235 | 2.484 | 0 | 0.825 | | 38.473 | 1244.00 | 124.40 | G |
| T10 | 2205.64 | 6858.43 | A | 0.228 | 2.504 | 8 | 0.825 | | 39.183 | 1344.00 | 134.40 | С |
| 70.00-160.00 | | | B | 0.228 | 2.504 | | 0.825 | | 39.183 | | | |
| T 11 | 4501.07 | 16562.01 | C | 0.228 | 2.504 | 0 | 0.825 | | 39.183 | 2025.22 | 141 77 | G |
| T11 | 4581.87 | 16563.91 | A | 0.236 | 2.479 | 8 | 0.825 | | 86.873 | 2835.33 | 141.77 | С |
| 160.00-140.00 | | | B | 0.236 | 2.479 | | 0.825 | | 86.873 | | | |
| T12 | 1750 50 | 17156 50 | C | 0.236 | 2.479 | - | 0.825 | | 86.873 | 2017.00 | 145.00 | G |
| T12 40.00-120.00 | 4759.58 | 17156.52 | A | 0.226 | 2.51 | 7 | 0.825 | | 90.235 | 2917.89 | 145.89 | С |
| 40.00-120.00 | | | B C | 0.226 0.226 | 2.51 2.51 | | 0.825 0.825 | | 90.235 90.235 | | | |
| T13 | 4836.64 | 15024.43 | A | 0.226 | 2.51 | 7 | 0.825 | | 90.235 70.994 | 2670.36 | 133.52 | С |
| 20.00-100.00 | +030.04 | 15024.45 | B | 0.181 | 2.661 | / | 0.825 | | 70.994 | 20/0.30 | 155,52 | |
| 20.00-100.00 | | | Б С | 0.181 | 2.661 | | 0.825 | | 70.994 | | | |
| Т14 | 4985.09 | 15674.17 | Ă | 0.181 | 2.698 | 7 | 0.825 | 1 | 72.428 | 2740.95 | 137.05 | С |
| 100.00-80.00 | 4985.09 | 150/4.17 | B | 0.17 | 2.698 | / | 0.825 | 1 | 72.428 | 2740.95 | 157.05 | C |
| 100.00-00.00 | | | Б С | 0.17 | 2.698 | | 0.825 | | 72.428 | | | |
| T15 | 5030.92 | 18017.30 | A | 0.17 | 2.698 | 7 | 0.825 | | 80.804 | 2904.68 | 145.23 | С |
| 80.00-60.00 | 5050.92 | 10017.50 | B | 0.173 | 2.69 | | 0.825 | | 80.804 | 2904.08 | 143.23 | C |
| 30.00-00.00 | | | Б С | 0.173 | 2.69 | | 0.825 | | 80.804 | | | |
| T16 | 7561.96 | 25360.00 | A | 0.175 | 2.09 | 8 | 0.825 | | 125.544 | 4627.43 | 154.25 | С |
| 60.00-30.00 | / 501.90 | 25500.00 | B | 0.165 | 2.717 | 0 | 0.825 | | 125.544 | 4027.43 | 154.23 | |
| 00.00-50.00 | | | Б С | | 2.717 | | 0.825 | | 125.544 | | | |
| T17 | 6329.02 | 28872.58 | | $0.165 \\ 0.158$ | 2.717 | 8 | 0.825 | | 125.544 | 4784.58 | 159.49 | С |
| 30.00-0.00 | 0329.02 | 200/2.38 | A B | 0.158 | 2.743 | 0 | 0.825 | | 131.643 | 4/04.38 | 159.49 | L L |
| 50.00-0.00 | | | В С | | 2.743 | | 0.825 | | 131.643 | | | |
| Sum Weight: | 54889.82 | 217062.04 | | 0.158 | 2.743 | | 0.823 | OTM | 4825.22 | 36984.43 | | |
| sum weight: | 34089.82 | 217062.94 | | | | | | | 4825.22 kip-ft | 20984.43 | | |
| | | | | | | | | | кір-п | | | |

tnxTower

| Job | Page |
|---|---------------------------|
| 21007.82 - Colchester | 49 of 96 |
| Project 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Client Verizon | Designed by TJL |

| | | Т | ow | er Fo | rces | - Wi | th Ic | e - V | Vind 60 | To Fac | е | |
|----------------------|----------|-----------|--------|----------------|----------------|-------|------------|-------|------------------|----------|--------|-------|
| | | | | | | | | | | | - | |
| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | W | Ctrl. |
| Elevation | Weight | Weight | a c | | | nef | | | | | | Face |
| ft | lb | lb | e | | | psf | | | ft^2 | lb | plf | |
| | 261.85 | 3479.11 | A | 0.397 | 2.071 | 9 | 0.8 | 1 | 31.836 | 590.25 | 36.89 | С |
| 320.00-304.00 | | | В | 0.397 | 2.071 | | 0.8 | 1 | 31.836 | | | |
| | | | С | 0.397 | 2.071 | | 0.8 | 1 | 31.836 | | | |
| T2 | 71.62 | 821.79 | A | 0.376 | 2.114 | 9 | 0.8 | 1 | 7.441 | 143.38 | 35.84 | С |
| 304.00-300.00 | | | B | 0.376 0.376 | 2.114 2.114 | | 0.8 | 1 | 7.441 7.441 | | | |
| Т3 | 592.40 | 5152.34 | C A | 0.376 | 2.114 | 9 | 0.8 0.8 | 1 | 40.822 | 860.73 | 43.04 | С |
| 300.00-280.00 | 392.40 | 5152.54 | B | 0.361 | 2.147 | 9 | 0.8 | 1 | 40.822 | 800.75 | 45.04 | C |
| 500.00-200.00 | | | č | 0.361 | 2.147 | | 0.8 | 1 | 40.822 | | | |
| T4 | 1098.70 | 9553.22 | Ă | 0.33 | 2.219 | 8 | 0.8 | î | 55.538 | 1278.90 | 63.94 | С |
| 280.00-260.00 | | | В | 0.33 | 2.219 | | 0.8 | 1 | 55.538 | | | |
| | | | С | 0.33 | 2.219 | | 0.8 | 1 | 55.538 | | | |
| T5 | 1465.07 | 10434.30 | Α | 0.307 | 2.277 | 8 | 0.8 | 1 | 61.287 | 1497.42 | 74.87 | С |
| 260.00-240.00 | | | B | 0.307 | 2.277 | | 0.8 | 1 | 61.287 | | | |
| | 1000 50 | 10150.01 | C | 0.307 | 2.277 | 0 | 0.8 | 1 | 61.287 | 17/0.04 | 00.50 | |
| T6 240.00-220.00 | 1898.59 | 12452.94 | A | 0.307 | 2.277 | 8 | 0.8 | | 70.726 | 1769.94 | 88.50 | С |
| 240.00-220.00 | | | B C | 0.307 0.307 | 2.277 2.277 | | 0.8 0.8 | 1 | 70.726 70.726 | | | |
| T7 | 3016.37 | 11683.11 | Ă | 0.307 | 2.454 | 8 | 0.8 | 1 | 63.825 | 2058.52 | 102.93 | С |
| 220.00-200.00 | 5010.57 | 11005.11 | B | 0.245 | 2.454 | 0 | 0.8 | 1 | 63.825 | 2050.52 | 102.95 | Ŭ |
| | | | Ĉ | 0.245 | 2.454 | | 0.8 | 1 | 63.825 | | | |
| Т8 | 4081.67 | 13202.41 | Ă | 0.246 | 2.449 | 8 | 0.8 | 1 | 72.855 | 2506.99 | 125.35 | С |
| 200.00-180.00 | | | в | 0.246 | 2.449 | | 0.8 | 1 | 72.855 | | | |
| | | | С | 0.246 | 2.449 | | 0.8 | 1 | 72.855 | | | |
| Т9 | 2112.84 | 6756.36 | Α | 0.235 | 2.484 | 8 | 0.8 | 1 | 37.476 | 1289.01 | 128.90 | С |
| 180.00-170.00 | | | В | 0.235 | 2.484 | | 0.8 | 1 | 37.476 | | | |
| 710 | 2202 64 | 60.50 10 | C | 0.235 | 2.484 | 0 | 0.8 | 1 | 37.476 | 1227.20 | 100 74 | |
| T10 170.00-160.00 | 2205.64 | 6858.43 | A | 0.228 | 2.504 | 8 | 0.8 | 1 | 38.171 | 1327.38 | 132.74 | С |
| 1/0.00-160.00 | | | B C | 0.228 0.228 | 2.504 2.504 | | 0.8 0.8 | 1 | 38.171 38.171 | | | |
| T11 | 4581.87 | 16563.91 | Ă | 0.228 | 2.304 | 8 | 0.8 | 1 | 84.609 | 2799.14 | 139.96 | С |
| 160.00-140.00 | 4501.07 | 10505.51 | B | 0.236 | 2.479 | 0 | 0.8 | 1 | 84.609 | 2799.14 | 157.70 | Ŭ |
| 100100 1 10100 | | | Ĉ | 0.236 | 2.479 | | 0.8 | 1 | 84.609 | | | |
| T12 | 4759.58 | 17156.52 | A | 0.226 | 2.51 | 7 | 0.8 | 1 | 87.894 | 2880.76 | 144.04 | С |
| 140.00-120.00 | | | В | 0.226 | 2.51 | | 0.8 | 1 | 87.894 | | | |
| | | | С | 0.226 | 2.51 | | 0.8 | 1 | 87.894 | | | |
| T13 | 4836.64 | 15024.43 | А | 0.181 | 2.661 | 7 | 0.8 | 1 | 69.705 | 2649.09 | 132.45 | С |
| 120.00-100.00 | | | B | 0.181 | 2.661 | | 0.8 | 1 | 69.705 | | | |
| 714 | 10.95.00 | 15(74.17 | C | 0.181 | 2.661 | 7 | 0.8 | | 69.705 | 2710 (5 | 125.00 | C |
| T14 100.00-80.00 | 4985.09 | 15674.17 | A B | 0.17 0.17 | 2.698 2.698 | 7 | 0.8 0.8 | 1 | 71.141 71.141 | 2719.65 | 135.98 | С |
| 100.00-80.00 | | | Б С | 0.17 | 2.698 | | 0.8 | 1 | 71.141 | | | |
| T15 | 5030.92 | 18017.30 | Ă | 0.17 | 2.098 | 7 | 0.8 | | 79.317 | 2880.07 | 144.00 | С |
| 80.00-60.00 | 5050.92 | 10017.50 | B | 0.173 | 2.69 | , | 0.8 | 1 | 79.317 | 2000.07 | 144.00 | Č |
| | | | č | 0.173 | 2.69 | | 0.8 | Î | 79.317 | | | |
| T16 | 7561.96 | 25360.00 | A | 0.165 | 2.717 | 8 | 0.8 | 1 | 123.314 | 4588.69 | 152.96 | С |
| 60.00-30.00 | | | В | 0.165 | 2.717 | | 0.8 | 1 | 123.314 | | | |
| | | | С | 0.165 | 2.717 | | 0.8 | 1 | 123.314 | | | |
| T17 | 6329.02 | 28872.58 | A | 0.158 | 2.743 | 8 | 0.8 | 1 | 129.388 | 4741.10 | 158.04 | С |
| 30.00-0.00 | | | B | 0.158 | 2.743 | | 0.8 | 1 | 129.388 | | | |
| Come Weitele | 54000.00 | 2170(2.04 | С | 0.158 | 2.743 | | 0.8 | | 129.388 | 26501.01 | | |
| Sum Weight: | 54889.82 | 217062.94 | | | | | | OTM | 4766.78 | 36581.01 | | |

| 21007.82 - Colchester 50 of 96 Project Date 320-ft Lattice Tower (CSP #50) 14:04:33 03/24/22 Client Verizon Verizon TJL | Job | | Page |
|---|---------|--------------------------------|-------------------|
| 320-ft Lattice Tower (CSP #50) 14:04:33 03/24/22 Client Designed by | | 21007.82 - Colchester | 50 of 96 |
| Client Designed by | Project | | Date |
| Vorizon | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | Verizon | |

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. |
|-----------|--------|--------|---|---|-------|-------|-------|-------|--------|----|-----|-------|
| Elevation | Weight | Weight | а | | | | | | | | | Face |
| | | | с | | | psf | | | | | | |
| ft | lb | lb | е | | | | | | ft^2 | lb | plf | |
| | | | | | | | | | kip-ft | | | |

Tower Forces - With Ice - Wind 90 To Face

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. |
|---------------|---------|----------|---|-------|---------|-------|---------|---------|---------|---------|--------|-------|
| Elevation | Weight | Weight | a | č | C_{F} | 92 | D_{T} | D_{R} | 112 | 1 | | Face |
| 1.0.0 | | n eight | c | | | psf | | | | | | 1 000 |
| ft | lb | lb | e | | | PSJ | | | ft^2 | lb | plf | |
| T1 | 261.85 | 3479.11 | А | 0.397 | 2.071 | 9 | 0.85 | 1 | 32.312 | 597.58 | 37.35 | С |
| 320.00-304.00 | | | в | 0.397 | 2.071 | | 0.85 | 1 | 32.312 | | | |
| | | | С | 0.397 | 2.071 | | 0.85 | 1 | 32.312 | | | |
| T2 | 71.62 | 821.79 | Ā | 0.376 | 2.114 | 9 | 0.85 | 1 | 7.549 | 145.05 | 36.26 | С |
| 304.00-300.00 | | | в | 0.376 | 2.114 | | 0.85 | 1 | 7.549 | | | |
| | | | C | 0.376 | 2.114 | | 0.85 | 1 | 7.549 | | | |
| Т3 | 592.40 | 5152.34 | Á | 0.361 | 2.147 | 9 | 0.85 | 1 | 41.450 | 870.61 | 43.53 | С |
| 300.00-280.00 | | | в | 0.361 | 2.147 | | 0.85 | 1 | 41.450 | | | |
| | | | С | 0.361 | 2.147 | | 0.85 | 1 | 41.450 | | | |
| T4 | 1098.70 | 9553.22 | Α | 0.33 | 2.219 | 8 | 0.85 | 1 | 58.422 | 1325.09 | 66.25 | С |
| 280.00-260.00 | | | в | 0.33 | 2.219 | | 0.85 | 1 | 58.422 | | | |
| | | | С | 0.33 | 2.219 | | 0.85 | 1 | 58.422 | | | |
| T5 | 1465.07 | 10434.30 | A | 0.307 | 2.277 | 8 | 0.85 | 1 | 64.444 | 1548.46 | 77.42 | С |
| 260.00-240.00 | | | в | 0.307 | 2.277 | | 0.85 | 1 | 64.444 | | | |
| | | | С | 0.307 | 2.277 | | 0.85 | 1 | 64.444 | | | |
| Т6 | 1898.59 | 12452.94 | Α | 0.307 | 2.277 | 8 | 0.85 | 1 | 74.382 | 1828.06 | 91.40 | С |
| 240.00-220.00 | | | в | 0.307 | 2.277 | | 0.85 | 1 | 74.382 | | | |
| | | | С | 0.307 | 2.277 | | 0.85 | 1 | 74.382 | | | |
| T7 | 3016.37 | 11683.11 | Α | 0.245 | 2.454 | 8 | 0.85 | 1 | 67.213 | 2115.49 | 105.77 | С |
| 220.00-200.00 | | | в | 0.245 | 2.454 | | 0.85 | 1 | 67.213 | | | |
| | | | С | 0.245 | 2.454 | | 0.85 | 1 | 67.213 | | | |
| Т8 | 4081.67 | 13202.41 | Α | 0.246 | 2.449 | 8 | 0.85 | 1 | 76.752 | 2571.15 | 128.56 | С |
| 200.00-180.00 | | | В | 0.246 | 2.449 | | 0.85 | 1 | 76.752 | | | |
| | | | С | 0.246 | 2.449 | | 0.85 | 1 | 76.752 | | | |
| Т9 | 2112.84 | 6756.36 | Α | 0.235 | 2.484 | 8 | 0.85 | 1 | 39.471 | 1321.81 | 132.18 | С |
| 180.00-170.00 | | | В | 0.235 | 2.484 | | 0.85 | 1 | 39.471 | | | |
| | | | С | 0.235 | 2.484 | | 0.85 | 1 | 39.471 | | | |
| T10 | 2205.64 | 6858.43 | Α | 0.228 | 2.504 | 8 | 0.85 | 1 | 40.196 | 1360.61 | 136.06 | С |
| 170.00-160.00 | | | в | 0.228 | 2.504 | | 0.85 | 1 | 40.196 | | | |
| | | | С | 0.228 | 2.504 | | 0.85 | 1 | 40.196 | | | |
| T11 | 4581.87 | 16563.91 | Α | 0.236 | 2.479 | 8 | 0.85 | 1 | 89.136 | 2871.51 | 143.58 | С |
| 160.00-140.00 | | | В | 0.236 | 2.479 | | 0.85 | 1 | 89.136 | | | |
| | | | С | 0.236 | 2.479 | | 0.85 | 1 | 89.136 | | | |
| T12 | 4759.58 | 17156.52 | Α | 0.226 | 2.51 | 7 | 0.85 | 1 | 92.577 | 2955.01 | 147.75 | С |
| 140.00-120.00 | | | В | 0.226 | 2.51 | | 0.85 | 1 | 92.577 | | | |
| | | | С | 0.226 | 2.51 | | 0.85 | 1 | 92.577 | | | |
| T13 | 4836.64 | 15024.43 | Α | 0.181 | 2.661 | 7 | 0.85 | 1 | 72.282 | 2691.62 | 134.58 | С |
| 120.00-100.00 | | | В | 0.181 | 2.661 | | 0.85 | 1 | 72.282 | | | |
| | | | С | 0.181 | 2.661 | | 0.85 | 1 | 72.282 | | | |
| T14 | 4985.09 | 15674.17 | А | 0.17 | 2.698 | 7 | 0.85 | 1 | 73.715 | 2762.25 | 138.11 | С |
| 100.00-80.00 | | | В | 0.17 | 2.698 | | 0.85 | 1 | 73.715 | | | |
| | | | С | 0.17 | 2.698 | | 0.85 | 1 | 73.715 | | | |
| T15 | 5030.92 | 18017.30 | Α | 0.173 | 2.69 | 7 | 0.85 | 1 | 82.291 | 2929.28 | 146.46 | С |
| 80.00-60.00 | | | В | 0.173 | 2.69 | | 0.85 | 1 | 82.291 | | | |
| | | | С | 0.173 | 2.69 | | 0.85 | 1 | 82.291 | | | |
| T16 | 7561.96 | 25360.00 | А | 0.165 | 2.717 | 8 | 0.85 | 1 | 127.774 | 4666.18 | 155.54 | С |

| Job | Page |
|-------------------------------------|--|
| 21007.82 - Colches | ter 51 of 96 |
| Project 320-ft Lattice Tower (CS | Date SP #50) 14:04:33 03/24/22 |
| Client Verizon | Designed by TJL |

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | W | Ctrl. |
|-------------|----------|-----------|---|-------|-------|-------|-------|-------|---------|----------|--------|-------|
| Elevation | Weight | Weight | а | | | | | | | | | Face |
| | | | с | | | psf | | | | | | |
| ft | lb | lb | е | | | | | | ft^2 | lb | plf | |
| 60.00-30.00 | | | В | 0.165 | 2.717 | | 0.85 | 1 | 127.774 | | | |
| | | | C | 0.165 | 2.717 | | 0.85 | 1 | 127.774 | | | |
| T17 | 6329.02 | 28872.58 | Α | 0.158 | 2.743 | 8 | 0.85 | 1 | 133.898 | 4828.06 | 160.94 | C |
| 30.00-0.00 | | | В | 0.158 | 2.743 | | 0.85 | 1 | 133.898 | | | |
| | | | C | 0.158 | 2.743 | | 0.85 | 1 | 133.898 | | | |
| Sum Weight: | 54889.82 | 217062.94 | | | | | | OTM | 4883.67 | 37387.84 | | |
| | | | | | | | | | kip-ft | | | |

| Tower Forces - Service - Wind Normal To Face | | | | | | | | | | | | |
|--|--------|---------|---|-------|-------|-------|-------|-------|--------|---------|--------|-------|
| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. |
| Elevation | Weight | Weight | a | c | C_F | q_z | D_F | D_R | 21E | 1 | rv | Face |
| 2101411011 | , eign | | c | | | psf | | | | | | 1 400 |
| ft | lb | lb | e | | | P | | | ft^2 | lb | plf | |
| | 15.90 | 1442.07 | Α | 0.209 | 2.566 | 13 | 1 | 1 | 18.059 | 531.91 | 33.24 | С |
| 320.00-304.00 | | | В | 0.209 | 2.566 | | 1 | 1 | 18.059 | | | |
| | | | С | 0.209 | 2.566 | | 1 | 1 | 18.059 | | | |
| T2 | 4.36 | 349.72 | Α | 0.201 | 2.592 | 13 | 1 | 1 | 4.278 | 127.76 | 31.94 | С |
| 304.00-300.00 | | | В | 0.201 | 2.592 | | 1 | 1 | 4.278 | | | |
| | | | С | 0.201 | 2.592 | | 1 | 1 | 4.278 | | | |
| Т3 | 40.00 | 2496.34 | Α | 0.207 | 2.573 | 12 | 1 | 1 | 25.107 | 766.66 | 38.33 | С |
| 300.00-280.00 | | | В | 0.207 | 2.573 | | 1 | 1 | 25.107 | | | |
| | | | С | 0.207 | 2.573 | | 1 | 1 | 25.107 | | | |
| T4 | 87.48 | 5067.66 | Α | 0.237 | 2.477 | 12 | 1 | 1 | 51.368 | 1488.57 | 74.43 | С |
| 280.00-260.00 | | | В | 0.237 | 2.477 | | 1 | 1 | 51.368 | | | |
| | | | С | 0.237 | 2.477 | | 1 | 1 | 51.368 | | | |
| Т5 | 122.62 | 5409.17 | Α | 0.219 | 2.532 | 12 | 1 | 1 | 56.868 | 1700.71 | 85.04 | С |
| 260.00-240.00 | | | В | 0.219 | 2.532 | | 1 | 1 | 56.868 | | | |
| | | | С | 0.219 | 2.532 | | 1 | 1 | 56.868 | | | |
| Т6 | 162.20 | 6484.36 | Α | 0.223 | 2.52 | 12 | 1 | 1 | 66.901 | 1992.59 | 99.63 | С |
| 240.00-220.00 | | | В | 0.223 | 2.52 | | 1 | 1 | 66.901 | | | |
| | | | С | 0.223 | 2.52 | | 1 | 1 | 66.901 | | | |
| T7 | 362.40 | 6406.00 | Α | 0.181 | 2.66 | 12 | 1 | 1 | 61.588 | 2091.03 | 104.55 | С |
| 220.00-200.00 | | | В | 0.181 | 2.66 | | 1 | 1 | 61.588 | | | |
| | | | С | 0.181 | 2.66 | | 1 | 1 | 61.588 | | | |
| Т8 | 534.20 | 7298.65 | Α | 0.187 | 2.642 | 11 | 1 | 1 | 71.839 | 2476.43 | 123.82 | С |
| 200.00-180.00 | | | В | 0.187 | 2.642 | | 1 | 1 | 71.839 | | | |
| | | | С | 0.187 | 2.642 | | 1 | 1 | 71.839 | | | |
| Т9 | 272.46 | 3730.84 | Α | 0.177 | 2.675 | 11 | 1 | 1 | 36.864 | 1266.96 | 126.70 | С |
| 180.00-170.00 | | | В | 0.177 | 2.675 | | 1 | 1 | 36.864 | | | |
| | | | С | 0.177 | 2.675 | | 1 | 1 | 36.864 | | | |
| T10 | 279.59 | 3785.29 | Α | 0.171 | 2.694 | 11 | 1 | 1 | 37.492 | 1289.86 | 128.99 | С |
| 70.00-160.00 | | | В | 0.171 | 2.694 | | 1 | 1 | 37.492 | | | |
| | | | С | 0.171 | 2.694 | | 1 | 1 | 37.492 | | | |
| T11 | 579.39 | 9608.59 | Α | 0.181 | 2.661 | 11 | 1 | 1 | 84.562 | 2788.09 | 139.40 | С |
| 160.00-140.00 | | | В | 0.181 | 2.661 | | 1 | 1 | 84.562 | | | |
| | | | С | 0.181 | 2.661 | | 1 | 1 | 84.562 | | | |
| T12 | 599.08 | 9975.29 | Α | 0.173 | 2.69 | 11 | 1 | 1 | 87.738 | 2867.38 | 143.37 | С |
| 140.00-120.00 | | | В | 0.173 | 2.69 | | 1 | 1 | 87.738 | | | |
| | | | С | 0.173 | 2.69 | | 1 | 1 | 87.738 | | | |
| T13 | 609.33 | 9144.95 | Α | 0.131 | 2.844 | 11 | 1 | 1 | 60.916 | 2281.41 | 114.07 | С |
| 120.00-100.00 | | | В | 0.131 | 2.844 | | 1 | 1 | 60.916 | | | |
| | | | С | 0.131 | 2.844 | | 1 | 1 | 60.916 | | | |
| T14 | 625.08 | 9675.54 | Α | 0.122 | 2.876 | 10 | 1 | 1 | 61.790 | 2333.65 | 116.68 | С |

Centek 63-2 N Bra Phone FAX

| nxTower | Job | 21007.82 - Colchester | Page 52 of 96 |
|--|---------|--------------------------------|---------------------------|
| k Engineering Inc. 2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| ranford, CT 06405 one: (203) 488-0580 4X: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | W | Ctrl. |
|--------------|---------|-----------|---|-------|-------|-------|-------|-------|---------|----------|--------|-------|
| Elevation | Weight | Weight | а | | | | | | | | | Face |
| | | | с | | | psf | | | | | | |
| ft | lb | lb | е | | | | | | ft^2 | lb | plf | |
| 100.00-80.00 | | | В | 0.122 | 2.876 | | 1 | 1 | 61.790 | | | |
| | | | C | 0.122 | 2.876 | | 1 | 1 | 61.790 | | | |
| T15 | 630.40 | 11450.50 | Α | 0.127 | 2.857 | 10 | 1 | 1 | 70.970 | 2573.03 | 128.65 | С |
| 80.00-60.00 | | | В | 0.127 | 2.857 | | 1 | 1 | 70.970 | | | |
| | | | C | 0.127 | 2.857 | | 1 | 1 | 70.970 | | | |
| T16 | 945.60 | 15115.36 | Α | 0.122 | 2.876 | 11 | 1 | 1 | 110.259 | 4130.24 | 137.67 | С |
| 60.00-30.00 | | | В | 0.122 | 2.876 | | 1 | 1 | 110.259 | | | |
| | | | C | 0.122 | 2.876 | | 1 | 1 | 110.259 | | | |
| T17 | 788.00 | 17941.94 | Α | 0.117 | 2.896 | 12 | 1 | 1 | 114.951 | 4480.77 | 149.36 | С |
| 30.00-0.00 | | | В | 0.117 | 2.896 | | 1 | 1 | 114.951 | | | |
| | | | C | 0.117 | 2.896 | | 1 | 1 | 114.951 | | | |
| Sum Weight: | 6658.09 | 125382.28 | | | | | | OTM | 4741.58 | 35187.03 | | |
| | | | | | | | | | kip-ft | | | |

| | | Т | ้อง | ver Fo | rces | - Se | rvice | e - W | ind 45 | To Face | ; | |
|---------------|--------|---------|-----|--------|-------|-------|-------|-------|--------|---------|--------|-------|
| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | W | Ctrl. |
| Elevation | Weight | Weight | a | | | | | | | | | Face |
| | | | с | | | psf | | | | | | |
| ft | lb | lb | e | | | | | | ft^2 | lb | plf | |
| T1 | 15.90 | 1442.07 | Α | 0.209 | 2.566 | 13 | 0.825 | 1 | 16.395 | 486.17 | 30.39 | С |
| 320.00-304.00 | | | В | 0.209 | 2.566 | | 0.825 | 1 | 16.395 | | | |
| | | | C | 0.209 | 2.566 | | 0.825 | 1 | 16.395 | | | |
| T2 | 4.36 | 349.72 | Α | 0.201 | 2.592 | 13 | 0.825 | 1 | 3.902 | 117.41 | 29.35 | С |
| 304.00-300.00 | | | В | 0.201 | 2.592 | | 0.825 | 1 | 3.902 | | | |
| | | | С | 0.201 | 2.592 | | 0.825 | 1 | 3.902 | | | |
| Т3 | 40.00 | 2496.34 | Α | 0.207 | 2.573 | 12 | 0.825 | 1 | 22.908 | 707.00 | 35.35 | С |
| 300.00-280.00 | | | В | 0.207 | 2.573 | | 0.825 | 1 | 22.908 | | | |
| | | | C | 0.207 | 2.573 | | 0.825 | 1 | 22.908 | | | |
| T4 | 87.48 | 5067.66 | Α | 0.237 | 2.477 | 12 | 0.825 | 1 | 42.379 | 1257.18 | 62.86 | С |
| 280.00-260.00 | | | В | 0.237 | 2.477 | | 0.825 | 1 | 42.379 | | | |
| | | | С | 0.237 | 2.477 | | 0.825 | 1 | 42.379 | | | |
| T5 | 122.62 | 5409.17 | Α | 0.219 | 2.532 | 12 | 0.825 | 1 | 46.916 | 1443.00 | 72.15 | С |
| 260.00-240.00 | | | В | 0.219 | 2.532 | | 0.825 | 1 | 46.916 | | | |
| | | | C | 0.219 | 2.532 | | 0.825 | 1 | 46.916 | | | |
| Т6 | 162.20 | 6484.36 | Α | 0.223 | 2.52 | 12 | 0.825 | 1 | 55.194 | 1695.98 | 84.80 | С |
| 240.00-220.00 | | | В | 0.223 | 2.52 | | 0.825 | 1 | 55.194 | | | |
| | | | C | 0.223 | 2.52 | | 0.825 | 1 | 55.194 | | | |
| T7 | 362.40 | 6406.00 | Α | 0.181 | 2.66 | 12 | 0.825 | 1 | 50.810 | 1808.07 | 90.40 | С |
| 220.00-200.00 | | | В | 0.181 | 2.66 | | 0.825 | 1 | 50.810 | | | |
| | | | С | 0.181 | 2.66 | | 0.825 | 1 | 50.810 | | | |
| Т8 | 534.20 | 7298.65 | A | 0.187 | 2.642 | 11 | 0.825 | 1 | 59.267 | 2154.96 | 107.75 | С |
| 200.00-180.00 | | | В | 0.187 | 2.642 | | 0.825 | 1 | 59.267 | | | |
| | | | С | 0.187 | 2.642 | | 0.825 | 1 | 59.267 | | | |
| Т9 | 272.46 | 3730.84 | Α | 0.177 | 2.675 | 11 | 0.825 | 1 | 30.413 | 1102.45 | 110.25 | С |
| 180.00-170.00 | | | В | 0.177 | 2.675 | | 0.825 | 1 | 30.413 | | | |
| | | | C | 0.177 | 2.675 | | 0.825 | 1 | 30.413 | | | |
| T10 | 279.59 | 3785.29 | Α | 0.171 | 2.694 | 11 | 0.825 | 1 | 30.931 | 1123.08 | 112.31 | С |
| 170.00-160.00 | | | В | 0.171 | 2.694 | | 0.825 | 1 | 30.931 | | | |
| | | | С | 0.171 | 2.694 | | 0.825 | 1 | 30.931 | | | |
| T11 | 579.39 | 9608.59 | A | 0.181 | 2.661 | 11 | 0.825 | 1 | 69.763 | 2422.51 | 121.13 | С |
| 160.00-140.00 | | | В | 0.181 | 2.661 | | 0.825 | 1 | 69.763 | | | |
| | | | Ċ | 0.181 | 2.661 | | 0.825 | 1 I | 69.763 | | | |
| T12 | 599.08 | 9975.29 | Α | 0.173 | 2.69 | 11 | 0.825 | 1 | 72.384 | 2491.74 | 124.59 | С |

Centek Eng 63-2 North Branford, Phone: (20 FAX: (203

| Гознан | Job | | Page |
|---|---------|--------------------------------|--------------------|
| Tower | | 21007.82 - Colchester | 53 of 96 |
| gineering Inc. | Project | | Date |
| h Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| ·d, CT 06405 203) 488-0580 03) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. |
|---------------|---------|-----------|---|-------|-------|-------|-------|-------|---------|----------|--------|-------|
| Elevation | Weight | Weight | а | | | | | | | | | Face |
| | | | С | | | psf | | | | | | |
| ft | lb | lb | е | | | | | | ft^2 | lb | plf | |
| 140.00-120.00 | | | В | 0.173 | 2.69 | | 0.825 | 1 | 72.384 | | | |
| | | | С | 0.173 | 2.69 | | 0.825 | 1 | 72.384 | | | |
| T13 | 609.33 | 9144.95 | Α | 0.131 | 2.844 | 11 | 0.825 | 1 | 52.923 | 2078.32 | 103.92 | С |
| 120.00-100.00 | | | В | 0.131 | 2.844 | | 0.825 | 1 | 52.923 | | | |
| | | | С | 0.131 | 2.844 | | 0.825 | 1 | 52.923 | | | |
| T14 | 625.08 | 9675.54 | Α | 0.122 | 2.876 | 10 | 0.825 | 1 | 53.799 | 2130.58 | 106.53 | С |
| 100.00-80.00 | | | В | 0.122 | 2.876 | | 0.825 | 1 | 53.799 | | | |
| | | | С | 0.122 | 2.876 | | 0.825 | 1 | 53.799 | | | |
| T15 | 630.40 | 11450.50 | Α | 0.127 | 2.857 | 10 | 0.825 | 1 | 61.571 | 2335.11 | 116.76 | С |
| 80.00-60.00 | | | В | 0.127 | 2.857 | | 0.825 | 1 | 61.571 | | | |
| | | | С | 0.127 | 2.857 | | 0.825 | 1 | 61.571 | | | |
| T16 | 945.60 | 15115.36 | Α | 0.122 | 2.876 | 11 | 0.825 | 1 | 96.168 | 3757.10 | 125.24 | С |
| 60.00-30.00 | | | В | 0.122 | 2.876 | | 0.825 | 1 | 96.168 | | | |
| | | | С | 0.122 | 2.876 | | 0.825 | 1 | 96.168 | | | |
| T17 | 788.00 | 17941.94 | Α | 0.117 | 2.896 | 12 | 0.825 | 1 | 100.692 | 4062.58 | 135.42 | С |
| 30.00-0.00 | | | В | 0.117 | 2.896 | | 0.825 | 1 | 100.692 | | | |
| | | | С | 0.117 | 2.896 | | 0.825 | 1 | 100.692 | | | |
| Sum Weight: | 6658.09 | 125382.28 | | | | | | OTM | 4150.95 | 31173.24 | | |
| Ĵ | | | | | | | | | kip-ft | | | |

| | Tower Forces - Service - Wind 60 To Face | | | | | | | | | | | | | |
|----------------------|--|----------------|--------|-------|-------|-------|-------|-------|-----------------|----------|--------|---------------|--|--|
| Section Elevation | Add Weight | Self Weight | F a | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. Face | | |
| ft | lb | lb | с е | | | psf | | | ft ² | lb | plf | | | |
| T1 | 15.90 | 1442.07 | Α | 0.209 | 2.566 | 13 | 0.8 | 1 | 16.157 | 479.64 | 29.98 | С | | |
| 320.00-304.00 | | | В | 0.209 | 2.566 | | 0.8 | 1 | 16.157 | | | | | |
| | | | Ē | 0.209 | 2.566 | | 0.8 | 1 | 16.157 | | | | | |
| T2 | 4.36 | 349.72 | Ă | 0.201 | 2.592 | 13 | 0.8 | ĩ | 3.849 | 115.93 | 28.98 | С | | |
| 304.00-300.00 | | | В | 0.201 | 2.592 | | 0.8 | - Î | 3.849 | | 2010 0 | - | | |
| | | | Ĉ | 0.201 | 2.592 | | 0.8 | î | 3.849 | | | | | |
| Т3 | 40.00 | 2496.34 | Ă | 0.207 | 2.573 | 12 | 0.8 | 1 | 22.594 | 698.48 | 34.92 | С | | |
| 300.00-280.00 | | 2130101 | B | 0.207 | 2.573 | | 0.8 | Î | 22.594 | 0,0110 | 0.001 | Ũ | | |
| 200.00 200.00 | | | Ĉ | 0.207 | 2.573 | | 0.8 | 1 | 22.594 | | | | | |
| T4 | 87.48 | 5067.66 | Ă | 0.237 | 2.477 | 12 | 0.8 | 1 | 41.095 | 1224.12 | 61.21 | С | | |
| 280.00-260.00 | | | В | 0.237 | 2.477 | | 0.8 | 1 | 41.095 | | | - | | |
| | | | Ē | 0.237 | 2.477 | | 0.8 | il | 41.095 | | | | | |
| Т5 | 122.62 | 5409.17 | Ă | 0.219 | 2.532 | 12 | 0.8 | 1 | 45.494 | 1406.19 | 70.31 | С | | |
| 260.00-240.00 | | | В | 0.219 | 2.532 | | 0.8 | - Î | 45.494 | 1.000.00 | | - | | |
| 200.00 2 10.00 | | | Ĉ | 0.219 | 2.532 | | 0.8 | î | 45.494 | | | | | |
| Т6 | 162.20 | 6484.36 | Ă | 0.223 | 2.52 | 12 | 0.8 | 1 | 53.521 | 1653.61 | 82.68 | С | | |
| 240.00-220.00 | 102.20 | 0.10.100 | B | 0.223 | 2.52 | | 0.8 | Î | 53.521 | 1000101 | 02.00 | Ũ | | |
| 210.00 220.00 | | | Ĉ | 0.223 | 2.52 | | 0.8 | 1 | 53.521 | | | | | |
| Т7 | 362.40 | 6406.00 | Ă | 0.181 | 2.66 | 12 | 0.8 | 1 | 49.270 | 1767.65 | 88.38 | С | | |
| 220.00-200.00 | 202110 | 0100100 | В | 0.181 | 2.66 | | 0.8 | 1 | 49.270 | 1,0,102 | 00.20 | Ũ | | |
| | | | Ē | 0.181 | 2.66 | | 0.8 | 1 | 49.270 | | | | | |
| Т8 | 534.20 | 7298.65 | Ă | 0.187 | 2.642 | 11 | 0.8 | 1 | 57.471 | 2109.04 | 105.45 | С | | |
| 200.00-180.00 | | | B | 0.187 | 2.642 | | 0.8 | 1 Î | 57.471 | 2105101 | 100.10 | Ĩ | | |
| 200100 100100 | | | Č | 0.187 | 2.642 | | 0.8 | 1 i l | 57.471 | | | | | |
| Т9 | 272.46 | 3730.84 | Ă | 0.177 | 2.675 | 11 | 0.8 | i l | 29.491 | 1078.95 | 107.90 | С | | |
| 180.00-170.00 | 272.10 | 2,20101 | B | 0.177 | 2.675 | | 0.8 | 1 | 29.491 | 10/0.50 | 10700 | Ũ | | |
| 100.00 170.00 | | | Č | 0.177 | 2.675 | | 0.8 | i l | 29.491 | | | | | |
| T10 | 279.59 | 3785.29 | Ă | 0.171 | 2.694 | 11 | 0.8 | i l | 29.994 | 1099.26 | 109.93 | С | | |

Centek Engi 63-2 North E Branford, Phone: (20. FAX: (203)

| T | Job | | Page |
|--|---------|--------------------------------|--------------------|
| Tower | | 21007.82 - Colchester | 54 of 96 |
| gineering Inc. | Project | | Date |
| h Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| d, CT 06405 203) 488-0580 03) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | W | Ctrl. |
|---------------|---------|-----------|---|-------|-------|-------|-------|-------|---------|----------|--------|-------|
| Elevation | Weight | Weight | a | | | | | | | | | Face |
| | | | с | | | psf | | | | | | |
| ft | lb | lb | е | | | | | | ft^2 | lb | plf | |
| 170.00-160.00 | | | В | 0.171 | 2.694 | | 0.8 | 1 | 29.994 | | | |
| | | | С | 0.171 | 2.694 | | 0.8 | 1 | 29.994 | | | |
| T11 | 579.39 | 9608.59 | Α | 0.181 | 2.661 | 11 | 0.8 | 1 | 67.649 | 2370.29 | 118.51 | С |
| 160.00-140.00 | | | В | 0.181 | 2.661 | | 0.8 | 1 | 67.649 | | | |
| | | | С | 0.181 | 2.661 | | 0.8 | 1 | 67.649 | | | |
| T12 | 599.08 | 9975.29 | Α | 0.173 | 2.69 | 11 | 0.8 | 1 | 70.190 | 2438.08 | 121.90 | С |
| 140.00-120.00 | | | В | 0.173 | 2.69 | | 0.8 | 1 | 70.190 | | | |
| | | | С | 0.173 | 2.69 | | 0.8 | 1 | 70.190 | | | |
| T13 | 609.33 | 9144.95 | Α | 0.131 | 2.844 | 11 | 0.8 | 1 | 51.781 | 2049.31 | 102.47 | С |
| 120.00-100.00 | | | В | 0.131 | 2.844 | | 0.8 | 1 | 51.781 | | | |
| | | | С | 0.131 | 2.844 | | 0.8 | 1 | 51.781 | | | |
| T14 | 625.08 | 9675.54 | Α | 0.122 | 2.876 | 10 | 0.8 | 1 | 52.657 | 2101.57 | 105.08 | С |
| 100.00-80.00 | | | В | 0.122 | 2.876 | | 0.8 | 1 | 52.657 | | | |
| | | | С | 0.122 | 2.876 | | 0.8 | 1 | 52.657 | | | |
| T15 | 630.40 | 11450.50 | Α | 0.127 | 2.857 | 10 | 0.8 | 1 | 60.228 | 2301.12 | 115.06 | С |
| 80.00-60.00 | | | В | 0.127 | 2.857 | | 0.8 | 1 | 60.228 | | | |
| | | | С | 0.127 | 2.857 | | 0.8 | 1 | 60.228 | | | |
| T16 | 945.60 | 15115.36 | Α | 0.122 | 2.876 | 11 | 0.8 | 1 | 94.154 | 3703.79 | 123.46 | С |
| 60.00-30.00 | | | В | 0.122 | 2.876 | | 0.8 | 1 | 94.154 | | | |
| | | | С | 0.122 | 2.876 | | 0.8 | 1 | 94.154 | | | |
| T17 | 788.00 | 17941.94 | Α | 0.117 | 2.896 | 12 | 0.8 | 1 | 98.655 | 4002.84 | 133.43 | С |
| 30.00-0.00 | | | В | 0.117 | 2.896 | | 0.8 | 1 | 98.655 | | | |
| | | | С | 0.117 | 2.896 | | 0.8 | 1 | 98.655 | | | |
| Sum Weight: | 6658.09 | 125382.28 | | | | | | OTM | 4066.57 | 30599.85 | | |
| | | | | | | | | | kip-ft | | | |

Tower Forces - Service - Wind 90 To Face

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | W | Ctrl. |
|---------------|--------|---------|---|-------|-------|-------|-------|-------|--------|---------|--------|-------|
| Elevation | Weight | Weight | а | | | - | | | | | | Face |
| | | | с | | | psf | | | | | | |
| ft | lb | lb | е | | | | | | ft^2 | lb | plf | |
| T1 | 15.90 | 1442.07 | Α | 0.209 | 2.566 | 13 | 0.85 | 1 | 16.633 | 492.70 | 30.79 | С |
| 320.00-304.00 | | | В | 0.209 | 2.566 | | 0.85 | 1 | 16.633 | | | |
| | | | С | 0.209 | 2.566 | | 0.85 | 1 | 16.633 | | | |
| T2 | 4.36 | 349.72 | Α | 0.201 | 2.592 | 13 | 0.85 | 1 | 3.956 | 118.89 | 29.72 | С |
| 304.00-300.00 | | | В | 0.201 | 2.592 | | 0.85 | 1 | 3.956 | | | |
| | | | С | 0.201 | 2.592 | | 0.85 | 1 | 3.956 | | | |
| Т3 | 40.00 | 2496.34 | Α | 0.207 | 2.573 | 12 | 0.85 | 1 | 23.222 | 715.52 | 35.78 | С |
| 300.00-280.00 | | | В | 0.207 | 2.573 | | 0.85 | 1 | 23.222 | | | |
| | | | С | 0.207 | 2.573 | | 0.85 | 1 | 23.222 | | | |
| T4 | 87.48 | 5067.66 | Α | 0.237 | 2.477 | 12 | 0.85 | 1 | 43.663 | 1290.23 | 64.51 | С |
| 280.00-260.00 | | | В | 0.237 | 2.477 | | 0.85 | 1 | 43.663 | | | |
| | | | С | 0.237 | 2.477 | | 0.85 | 1 | 43.663 | | | |
| T5 | 122.62 | 5409.17 | Α | 0.219 | 2.532 | 12 | 0.85 | 1 | 48.338 | 1479.82 | 73.99 | С |
| 260.00-240.00 | | | В | 0.219 | 2.532 | | 0.85 | 1 | 48.338 | | | |
| | | | С | 0.219 | 2.532 | | 0.85 | 1 | 48.338 | | | |
| Т6 | 162.20 | 6484.36 | Α | 0.223 | 2.52 | 12 | 0.85 | 1 | 56.866 | 1738.35 | 86.92 | С |
| 240.00-220.00 | | | В | 0.223 | 2.52 | | 0.85 | 1 | 56.866 | | | |
| | | | С | 0.223 | 2.52 | | 0.85 | 1 | 56.866 | | | |
| T 7 | 362.40 | 6406.00 | Α | 0.181 | 2.66 | 12 | 0.85 | 1 | 52.350 | 1848.50 | 92.42 | С |
| 220.00-200.00 | | | в | 0.181 | 2.66 | | 0.85 | 1 | 52.350 | | | |
| | | | С | 0.181 | 2.66 | | 0.85 | 1 | 52.350 | | | |
| Т8 | 534.20 | 7298.65 | Α | 0.187 | 2.642 | 11 | 0.85 | 1 | 61.063 | 2200.88 | 110.04 | С |

tnxT

Centek Eng 63-2 North Branford, Phone: (20 FAX: (203

| Tower | Job | 21007.82 - Colchester | Page 55 of 96 |
|---|---------|--------------------------------|---------------------------|
| igineering Inc. Ih Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| rd, CT 06405 203) 488-0580 03) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Add | Self | F | е | C_F | q_z | D_F | D_R | A_E | F | w | Ctrl. |
|---------------|---------|-----------|---|-------|-------|-------|-------|-------|---------|----------|--------|-------|
| Elevation | Weight | Weight | а | | | | | | | | | Face |
| | | | с | | | psf | | | | | | |
| ft | lb | lb | е | | | | | | ft^2 | lb | plf | |
| 200.00-180.00 | | | В | 0.187 | 2.642 | | 0.85 | 1 | 61.063 | | | |
| | | | С | 0.187 | 2.642 | | 0.85 | 1 | 61.063 | | | |
| Т9 | 272.46 | 3730.84 | Α | 0.177 | 2.675 | 11 | 0.85 | 1 | 31.334 | 1125.95 | 112.60 | С |
| 180.00-170.00 | | | В | 0.177 | 2.675 | | 0.85 | 1 | 31.334 | | | |
| | | | С | 0.177 | 2.675 | | 0.85 | 1 | 31.334 | | | |
| T10 | 279.59 | 3785.29 | Α | 0.171 | 2.694 | 11 | 0.85 | 1 | 31.869 | 1146.91 | 114.69 | С |
| 170.00-160.00 | | | В | 0.171 | 2.694 | | 0.85 | 1 | 31.869 | | | |
| | | | С | 0.171 | 2.694 | | 0.85 | 1 | 31.869 | | | |
| T11 | 579.39 | 9608.59 | Α | 0.181 | 2.661 | 11 | 0.85 | 1 | 71.877 | 2474.74 | 123.74 | С |
| 160.00-140.00 | | | В | 0.181 | 2.661 | | 0.85 | 1 | 71.877 | | | |
| | | | С | 0.181 | 2.661 | | 0.85 | 1 | 71.877 | | | |
| T12 | 599.08 | 9975.29 | Α | 0.173 | 2.69 | 11 | 0.85 | 1 | 74.577 | 2545.41 | 127.27 | С |
| 140.00-120.00 | | | В | 0.173 | 2.69 | | 0.85 | 1 | 74.577 | | | |
| | | | С | 0.173 | 2.69 | | 0.85 | 1 | 74.577 | | | |
| T13 | 609.33 | 9144.95 | Α | 0.131 | 2.844 | 11 | 0.85 | 1 | 54.065 | 2107.33 | 105.37 | С |
| 120.00-100.00 | | | В | 0.131 | 2.844 | | 0.85 | 1 | 54.065 | | | |
| | | | С | 0.131 | 2.844 | | 0.85 | 1 | 54.065 | | | |
| T14 | 625.08 | 9675.54 | Α | 0.122 | 2.876 | 10 | 0.85 | 1 | 54.940 | 2159.59 | 107.98 | С |
| 100.00-80.00 | | | В | 0.122 | 2.876 | | 0.85 | 1 | 54.940 | | | |
| | | | С | 0.122 | 2.876 | | 0.85 | 1 | 54.940 | | | |
| T15 | 630.40 | 11450.50 | Α | 0.127 | 2.857 | 10 | 0.85 | 1 | 62.913 | 2369.10 | 118.45 | С |
| 80.00-60.00 | | | В | 0.127 | 2.857 | | 0.85 | 1 | 62.913 | | | |
| | | | С | 0.127 | 2.857 | | 0.85 | 1 | 62.913 | | | |
| T16 | 945.60 | 15115.36 | Α | 0.122 | 2.876 | 11 | 0.85 | 1 | 98.181 | 3810.40 | 127.01 | С |
| 60.00-30.00 | | | В | 0.122 | 2.876 | | 0.85 | 1 | 98.181 | | | |
| | | | С | 0.122 | 2.876 | | 0.85 | 1 | 98.181 | | | |
| T17 | 788.00 | 17941.94 | Α | 0.117 | 2.896 | 12 | 0.85 | 1 | 102.729 | 4122.32 | 137.41 | С |
| 30.00-0.00 | | | в | 0.117 | 2.896 | | 0.85 | 1 | 102.729 | | | |
| | | | С | 0.117 | 2.896 | | 0.85 | 1 | 102.729 | | | |
| Sum Weight: | 6658.09 | 125382.28 | | | | | | OTM | 4235.32 | 31746.64 | | |
| | | | | | | | | | kip-ft | | | |

| Force | Tota | s |
|-------|------|---|
|-------|------|---|

| Load | Vertical | Sum of | Sum of | Sum of | Sum of | Sum of Torques |
|--------------------------|-----------|------------|------------|----------------|----------------|----------------|
| Case | Forces | Forces | Forces | Overturning | Overturning | |
| | | X | Ζ | Moments, M_x | Moments, M_z | |
| | lb | lb | lb | kip-ft | kip-ft | kip-ft |
| Leg Weight | 73044.53 | | | | | |
| Bracing Weight | 52337.75 | | | | | |
| Total Member Self-Weight | 125382.28 | | | 41.33 | -24.48 | |
| Total Weight | 140925.07 | | | 41.33 | -24.48 | |
| Wind 0 deg - No Ice | | 0.00 | -219836.84 | -31830.29 | -24.48 | 299.8 |
| Wind 30 deg - No Ice | | 100552.92 | -174162.76 | -25173.29 | -14582.15 | 377.8 |
| Wind 45 deg - No Ice | | 139995.83 | -139995.83 | -20221.49 | -20287.30 | 379.1 |
| Wind 60 deg - No Ice | | 168755.59 | -97431.08 | -14056.96 | -24443.43 | 354.5 |
| Wind 90 deg - No Ice | | 201105.84 | 0.00 | 41.33 | -29139.82 | 236.3 |
| Wind 120 deg - No Ice | | 190384.29 | 109918.42 | 15977.14 | -27626.11 | 54.7 |
| Wind 135 deg - No Ice | | 148825.71 | 148825.71 | 21603.48 | -21586.62 | -44.9 |
| Wind 150 deg - No Ice | | 100552.92 | 174162.76 | 25255.95 | -14582.15 | -141.5 |
| Wind 180 deg - No Ice | | 0.00 | 194862.17 | 28237.91 | -24.48 | -299.8 |
| Wind 210 deg - No Ice | | -100552.92 | 174162.76 | 25255.95 | 14533.19 | -377.8 |
| Wind 225 deg - No Ice | | -139995.83 | 139995.83 | 20304.15 | 20238.34 | -379.1 |
| Wind 240 deg - No Ice | | -190384.29 | 109918.42 | 15977.14 | 27577.15 | -354.5 |

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| n | Job | | Page |
|--|---------|--------------------------------|---------------------------|
| ower | | 21007.82 - Colchester | 56 of 96 |
| gineering Inc. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford Rd. I. CT 06405 | Client | SZO-IT LATTICE TOWER (CSF #50) | |
| 1, C1 00405 03) 488-0580 3) 488-8587 | Client | Verizon | Designed by TJL |

| Load | Vertical | Sum of | Sum of | Sum of | Sum of | Sum of Torques |
|------------------------|-----------|------------|------------|----------------|----------------|----------------|
| Case | Forces | Forces | Forces | Overturning | Overturning | · . |
| | | X | Ζ | Moments, M_x | Moments, M_z | |
| | lb | lb | lb | kip-ft | kip-ft | kip-ft |
| Wind 270 deg - No Ice | | -201105.84 | 0.00 | 41.33 | 29090.86 | -236.30 |
| Wind 300 deg - No Ice | | -168755.59 | -97431.08 | -14056.96 | 24394.47 | -54.70 |
| Wind 315 deg - No Ice | | -139995.83 | -139995.83 | -20221.49 | 20238.34 | 44.95 |
| Wind 330 deg - No Ice | | -100552.92 | -174162.76 | -25173.29 | 14533.19 | 141.55 |
| Member Ice | 91680.66 | | | | | |
| Total Weight Ice | 296659.59 | | | 304.26 | -322.50 | |
| Wind 0 deg - Ice | | 0.00 | -45988.09 | -6242.83 | -322.50 | 118.08 |
| Wind 30 deg - Ice | | 21783.80 | -37730.65 | -5061.99 | -3420.71 | 149.70 |
| Wind 45 deg - Ice | | 30521.69 | -30521.69 | -4035.93 | -4662.70 | 150.59 |
| Wind 60 deg - Ice | | 37031.91 | -21380.39 | -2735.50 | -5587.52 | 141.21 |
| Wind 90 deg - Ice | | 43567.60 | 0.00 | 304.26 | -6518.91 | 94.88 |
| Wind 120 deg - Ice | | 39826.85 | 22994.04 | 3577.80 | -5992.45 | 23.12 |
| Wind 135 deg - Ice | | 31662.72 | 31662.72 | 4809.76 | -4828.01 | -16.41 |
| Wind 150 deg - Ice | | 21783.80 | 37730.65 | 5670.50 | -3420.71 | -54.83 |
| Wind 180 deg - Ice | | 0.00 | 42760.77 | 6383.77 | -322.50 | -118.08 |
| Wind 210 deg - Ice | | -21783.80 | 37730.65 | 5670.50 | 2775.70 | -149.70 |
| Wind 225 deg - Ice | | -30521.69 | 30521.69 | 4644.45 | 4017.69 | -150.59 |
| Wind 240 deg - Ice | | -39826.85 | 22994.04 | 3577.80 | 5347.44 | -141.21 |
| Wind 270 deg - Ice | | -43567.60 | 0.00 | 304.26 | 5873.90 | -94.88 |
| Wind 300 deg - Ice | | -37031.91 | -21380.39 | -2735.50 | 4942.51 | -23.12 |
| Wind 315 deg - Ice | | -30521.69 | -30521.69 | -4035.93 | 4017.69 | 16.41 |
| Wind 330 deg - Ice | | -21783.80 | -37730.65 | -5061.99 | 2775.70 | 54.83 |
| Total Weight | 140925.07 | | | 41.33 | -24.48 | |
| Wind 0 deg - Service | | 0.00 | -40835.43 | -5914.76 | 10.56 | 54.89 |
| Wind 30 deg - Service | | 18697.52 | -32385.05 | -4683.59 | -2694.85 | 69.29 |
| Wind 45 deg - Service | | 26036.83 | -26036.83 | -3764.05 | -3755.80 | 69.58 |
| Wind 60 deg - Service | | 31391.90 | -18124.12 | -2618.72 | -4529.20 | 65.13 |
| Wind 90 deg - Service | | 37395.04 | 0.00 | 2.31 | -5400.26 | 43.52 |
| Wind 120 deg - Service | | 35364.52 | 20417.71 | 2960.85 | -5113.77 | 10.24 |
| Wind 135 deg - Service | | 27658.65 | 27658.65 | 4007.33 | -3994.45 | -8.04 |
| Wind 150 deg - Service | | 18697.52 | 32385.05 | 4688.22 | -2694.85 | -25.77 |
| Wind 180 deg - Service | | 0.00 | 36248.24 | 5244.38 | 10.56 | -54.89 |
| Wind 210 deg - Service | | -18697.52 | 32385.05 | 4688.22 | 2715.97 | -69.29 |
| Wind 225 deg - Service | | -26036.83 | 26036.83 | 3768.68 | 3776.93 | -69.58 |
| Wind 240 deg - Service | | -35364.52 | 20417.71 | 2960.85 | 5134.90 | -65.13 |
| Wind 270 deg - Service | | -37395.04 | 0.00 | 2.31 | 5421.38 | -43.52 |
| Wind 300 deg - Service | | -31391.90 | -18124.12 | -2618.72 | 4550.33 | -10.24 |
| Wind 315 deg - Service | | -26036.83 | -26036.83 | -3764.05 | 3776.93 | 8.04 |
| Wind 330 deg - Service | | -18697.52 | -32385.05 | -4683.59 | 2715.97 | 25.77 |
| mind 550 deg - bervice | | -10077.52 | -52505.05 | | 2113.71 | 23.11 |

Load Combinations

| Comb. | | Description |
|-------|------------------------------------|-------------|
| No. | | |
| 1 | Dead Only | |
| 2 | 1.2 Dead+1.0 Wind 0 deg - No Ice | |
| 3 | 0.9 Dead+1.0 Wind 0 deg - No Ice | |
| 4 | 1.2 Dead+1.0 Wind 30 deg - No Ice | |
| 5 | 0.9 Dead+1.0 Wind 30 deg - No Ice | |
| 6 | 1.2 Dead+1.0 Wind 45 deg - No Ice | |
| 7 | 0.9 Dead+1.0 Wind 45 deg - No Ice | |
| 8 | 1.2 Dead+1.0 Wind 60 deg - No Ice | |
| 9 | 0.9 Dead+1.0 Wind 60 deg - No Ice | |
| 10 | 1.2 Dead+1.0 Wind 90 deg - No Ice | |
| 11 | 0.9 Dead+1.0 Wind 90 deg - No Ice | |
| 12 | 1.2 Dead+1.0 Wind 120 deg - No Ice | |

tnxTower

Centek Engineering Inc. 63-2 North Branford Rd.

63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

| Job | | Page |
|---------|--------------------------------|-------------------|
| | 21007.82 - Colchester | 57 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | Verizon | Designed by |
| | Vonzon | TJL |

| Comb. | Description | _ |
|-------|--|---|
| No. | * | |
| 13 | 0.9 Dead+1.0 Wind 120 deg - No Ice | |
| 14 | 1.2 Dead+1.0 Wind 135 deg - No Ice | |
| 15 | 0.9 Dead+1.0 Wind 135 deg - No Ice | |
| 16 | 1.2 Dead+1.0 Wind 150 deg - No Ice | |
| 17 | 0.9 Dead+1.0 Wind 150 deg - No Ice | |
| 18 | 1.2 Dead+1.0 Wind 180 deg - No Ice | |
| 19 | 0.9 Dead+1.0 Wind 180 deg - No Ice | |
| 20 | 1.2 Dead+1.0 Wind 210 deg - No Ice | |
| 21 | 0.9 Dead+1.0 Wind 210 deg - No Ice | |
| 22 | 1.2 Dead+1.0 Wind 225 deg - No Ice | |
| 23 | 0.9 Dead+1.0 Wind 225 deg - No Ice | |
| 24 | 1.2 Dead+1.0 Wind 240 deg - No Ice | |
| 25 | 0.9 Dead+1.0 Wind 240 deg - No Ice | |
| 26 | 1.2 Dead+1.0 Wind 270 deg - No Ice | |
| 27 | 0.9 Dead+1.0 Wind 270 deg - No Ice | |
| 28 | 1.2 Dead+1.0 Wind 300 deg - No Ice | |
| 29 | 0.9 Dead+1.0 Wind 300 deg - No Ice | |
| 30 | 1.2 Dead+1.0 Wind 315 deg - No Ice | |
| 31 | 0.9 Dead+1.0 Wind 315 deg - No Ice | |
| 32 | 1.2 Dead+1.0 Wind 330 deg - No Ice | |
| 33 | 0.9 Dead+1.0 Wind 330 deg - No Ice | |
| 34 | 1.2 Dead+1.0 Ice+1.0 Temp | |
| 35 | 1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp | |
| 36 | 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp | |
| 37 | 1.2 Dead+1.0 Wind 45 deg+1.0 Ice+1.0 Temp | |
| 38 | 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp | |
| 39 | 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp | |
| 40 | 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp | |
| 41 | 1.2 Dead+1.0 Wind 135 deg+1.0 Ice+1.0 Temp | |
| 42 | 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp | |
| 43 | 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp | |
| 44 | 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp | |
| 45 | 1.2 Dead+1.0 Wind 225 deg+1.0 Ice+1.0 Temp | |
| 46 | 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp | |
| 47 | 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp | |
| 48 | 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp | |
| 49 | 1.2 Dead+1.0 Wind 315 deg+1.0 Ice+1.0 Temp | |
| 50 | 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp | |
| 51 | Dead+Wind 0 deg - Service | |
| 52 | Dead+Wind 30 deg - Service | |
| 53 | Dead+Wind 45 deg - Service | |
| 54 | Dead+Wind 60 deg - Service | |
| 55 | Dead+Wind 90 deg - Service | |
| 56 | Dead+Wind 120 deg - Service | |
| 57 | Dead+Wind 135 deg - Service | |
| 58 | Dead+Wind 150 deg - Service | |
| 59 | Dead+Wind 180 deg - Service | |
| 60 | Dead+Wind 210 deg - Service | |
| 61 | Dead+Wind 225 deg - Service | |
| 62 | Dead+Wind 240 deg - Service | |
| 63 | Dead+Wind 270 deg - Service | |
| 64 | Dead+Wind 300 deg - Service | |
| 65 | Dead+Wind 315 deg - Service | |
| 66 | Dead+Wind 330 deg - Service | |

Maximum Member Forces

tnxT

Centek Engi 63-2 North E Branford, Phone: (203 FAX: (203)

| Tower | Job | 21007.82 - Colchester | Page 58 of 96 |
|--|---------|--------------------------------|---------------------------|
| gineering Inc. 1 Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| 1, CT 06405 03) 488-0580 3) 488-8587 | Client | Verizon | Designed by TJL |

| T1 | <i>ft</i> 320 - 304 | <i>Type</i> Leg Diagonal | Max Tension Max. Compression Max. Mx Max. My Max. Vy Max. Vy Max. Vx | Comb. 29 24 24 3 | <i>lb</i> 5560.46 -7158.49 -1514.77 | <i>kip-ft</i> 0.04 -0.01 | kip-ft 0.02 -0.00 |
|----|------------------------|--------------------------------|--|------------------------------|--|--------------------------------|-------------------------|
| T1 | 320 - 304 | - | Max. Compression Max. Mx Max. My Max. Vy | 24 24 | -7158.49 | -0.01 | |
| | | - | Max. Compression Max. Mx Max. My Max. Vy | 24 | -7158.49 | | -0.00 |
| | | Diagonal | Max. Mx Max. My Max. Vy | | -1514.77 | | 0.00 |
| | | Diagonal | Max. Vy | | | -0.14 | -0.00 |
| | | Diagonal | Max. Vy | | 328.14 | -0.01 | -0.17 |
| | | Diagonal | | 10 | -475.10 | 0.00 | 0.00 |
| | | Diagonal | 1,100,111 1,11 | 3 | 536.64 | 0.00 | 0.00 |
| | | Diagonai | Max Tension | 20 | 1340.52 | 0.00 | 0.00 |
| | | | Max. Compression | 4 | -1332.75 | 0.00 | 0.00 |
| | | | Max. Max | 40 | 327.19 | 0.00 | -0.00 |
| | | | Max. My | 20 | -702.07 | 0.02 | -0.00 |
| | | | | 40 | -20.09 | 0.00 | -0.00 |
| | | | Max. Vy Max. Vx | 20 | | 0.02 | -0.00 |
| | | Tan Cint | | | 0.12 | | |
| | | Top Girt | Max Tension | 13 | 182.33 | 0.00 | 0.00 |
| | | | Max. Compression | 8 | -193.77 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -30.30 | -0.05 | 0.00 |
| | | _ | Max. Vy | 34 | -32.08 | 0.00 | 0.00 |
| T2 | 304 - 300 | Leg | Max Tension | 29 | 7856.86 | 0.01 | 0.00 |
| | | | Max. Compression | 24 | -9868.91 | 0.32 | -0.07 |
| | | | Max. Mx | 24 | -9868.91 | 0.32 | -0.07 |
| | | | Max. My | 2 | -9842.29 | 0.09 | 0.31 |
| | | | Max. Vy | 24 | -136.99 | 0.32 | -0.07 |
| | | | Max. Vx | 2 | -138.63 | 0.09 | 0.31 |
| | | Diagonal | Max Tension | 4 | 1558.05 | 0.00 | 0.00 |
| | | - | Max. Compression | 4 | -1579.71 | 0.00 | 0.00 |
| | | | Max. Mx | 40 | 332.54 | 0.02 | -0.00 |
| | | | Max. My | 20 | -826.43 | 0.00 | -0.00 |
| | | | Max. Vy | 40 | -20.08 | 0.02 | -0.00 |
| | | | Max. Vx | 20 | 0.04 | 0.00 | 0.00 |
| Т3 | 300 - 280 | Leg | Max Tension | 29 | 21872.21 | -0.16 | -0.01 |
| 10 | 200 200 | 208 | Max. Compression | 24 | -27177.62 | 0.53 | -0.00 |
| | | | Max. Mx | 3 | -26377.34 | 0.53 | 0.14 |
| | | | Max. My | 32 | -2347.87 | -0.00 | 0.57 |
| | | | Max. Vy | 2 | 331.63 | 0.31 | -0.09 |
| | | | Max. Vx | 16 | -518.81 | 0.02 | 0.11 |
| | | Diagonal | Max Tension | 4 | 3066.10 | 0.02 | 0.00 |
| | | Diagonal | Max. Compression | 2 | -3093.64 | 0.00 | 0.00 |
| | | | | | | | |
| | | | Max. Mx | 48 | 472.86 | 0.03 | 0.00 |
| | | | Max. My | 35 | 402.97 | 0.03 | 0.00 |
| | | | Max. Vy | 48 | 31.15 | 0.03 | 0.00 |
| | | | Max. Vx | 35 | -1.72 | 0.00 | 0.00 |
| | | Top Girt | Max Tension | 23 | 47.65 | 0.00 | 0.00 |
| | | | Max. Compression | 28 | -67.63 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -22.49 | -0.07 | 0.00 |
| | | | Max. My | 34 | -20.75 | 0.00 | 0.00 |
| | | | Max. Vy | 34 | -38.34 | 0.00 | 0.00 |
| | | | Max. Vx | 34 | -1.13 | 0.00 | 0.00 |
| T4 | 280 - 260 | Leg | Max Tension | 29 | 40928.19 | -0.33 | 0.00 |
| | | | Max. Compression | 24 | -51714.53 | 0.81 | -0.11 |
| | | | Max. Mx | 13 | -50439.58 | 0.82 | -0.03 |
| | | | Max. My | 2 | 19420.16 | -0.43 | 0.81 |
| | | | Max. Vy | 3 | -365.89 | 0.81 | 0.14 |
| | | | Max. Vx | 20 | -352.06 | -0.02 | 0.56 |
| | | Diagonal | Max Tension | 10 | 4723.82 | 0.00 | 0.00 |
| | | 0 | Max. Compression | 12 | -4792.84 | 0.00 | 0.00 |
| | | | Max. Mx | 43 | 755.44 | 0.06 | -0.01 |
| | | | Max. My | 39 | -1168.66 | 0.06 | -0.01 |
| | | | Max. Vy | 43 | 46.35 | 0.06 | -0.01 |
| | | | Max. Vx | 39 | 2.72 | 0.00 | 0.00 |
| Т5 | 260 - 240 | Leg | Max Tension | 19 | 67795.49 | -0.32 | -0.36 |
| 15 | 200-240 | Leg | Max Tension Max. Compression | | -87438.51 | -0.32 | -0.08 |
| | | | Max. Compression Max. Mx | 12 24 | -87458.51 -86808.41 | 2.34 | -0.08 0.48 |

tnxT

Centek Engi 63-2 North E Branford, Phone: (202 FAX: (203)

| | Job | | Page |
|------------------------------|---------|--------------------------------|-------------------|
| ower | | 21007.82 - Colchester | 59 of 96 |
| gineering Inc. | Project | | Date |
| n Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| d, CT 06405 | Client | | Designed by |
| 03) 488-0580)3) 488-8587 | | Verizon | TJL |

| Section No. | Elevation ft | Component Type | Condition | Gov. Load | Axial | Major Axis Moment | Minor Axi Moment |
|----------------|-----------------|-------------------|------------------------|--------------|------------|----------------------|---------------------|
| 110. | <i>Ji</i> | Type | | Comb. | lb | kip-ft | kip-ft |
| | | | Max. My | 20 | -7153.71 | -0.00 | 3.01 |
| | | | Max. Vy | 28 | -759.14 | -0.32 | -0.05 |
| | | | Max. Vy Max. Vx | 4 | -1306.69 | -0.02 | 0.45 |
| | | Diagonal | Max. vx Max Tension | 4 26 | 8216.26 | 0.00 | 0.45 |
| | | Diagonal | | | | | 0.00 |
| | | | Max. Compression | 24 | -8474.57 | 0.00 | 0.00 |
| | | | Max. Mx | 43 | 928.53 | 0.09 | |
| | | | Max. My | 37 | -1548.20 | 0.09 | -0.01 |
| | | | Max. Vy | 43 | 63.73 | 0.09 | 0.01 |
| T | 2.10 220 | T | Max. Vx | 37 | 3.58 | 0.00 | 0.00 |
| T6 | 240 - 220 | Leg | Max Tension | 9 | 109324.21 | -1.10 | 0.02 |
| | | | Max. Compression | 12 | -141250.86 | 2.50 | 0.02 |
| | | | Max. Mx | 3 | -137986.27 | 2.50 | -0.28 |
| | | | Max. My | 20 | -7376.52 | -0.00 | 3.01 |
| | | | Max. Vy | 28 | -2468.93 | -1.20 | -0.07 |
| | | | Max. Vx | 4 | -2416.31 | -0.06 | -0.51 |
| | | Diagonal | Max Tension | 32 | 13662.75 | 0.00 | 0.00 |
| | | | Max. Compression | 32 | -13647.81 | 0.00 | 0.00 |
| | | | Max. Mx | 38 | 1535.49 | 0.17 | -0.02 |
| | | | Max. My | 36 | -1386.01 | 0.15 | -0.02 |
| | | | Max. Vy | 38 | 102.65 | 0.17 | -0.02 |
| | | | Max. Vx | 36 | 5.65 | 0.00 | 0.00 |
| T7 | 220 - 200 | Leg | Max Tension | 9 | 156018.46 | -1.02 | -0.19 |
| | | | Max. Compression | 12 | -198631.19 | 2.25 | -0.05 |
| | | | Max. Mx | 3 | -162856.11 | 2.50 | -0.28 |
| | | | Max. My | 4 | -12152.60 | -0.12 | -2.69 |
| | | | Max. Vy | 25 | 577.37 | 2.50 | 0.26 |
| | | | Max. Vx | 4 | -828.69 | -0.12 | -2.69 |
| | | Diagonal | Max Tension | 32 | 16907.21 | 0.00 | 0.00 |
| | | U | Max. Compression | 2 | -17543.47 | 0.00 | 0.00 |
| | | | Max. Mx | 37 | 2025.43 | 0.25 | -0.04 |
| | | | Max. My | 36 | 2465.57 | 0.24 | -0.04 |
| | | | Max. Vy | 37 | 126.23 | 0.25 | -0.04 |
| | | | Max. Vx | 36 | 7.24 | 0.00 | 0.00 |
| Т8 | 200 - 180 | Leg | Max Tension | 9 | 213001.13 | -2.18 | -0.12 |
| | | .0 | Max. Compression | 12 | -269962.60 | 3.22 | -0.02 |
| | | | Max. Mx | 12 | -269962.60 | 3.22 | -0.02 |
| | | | Max. My | 4 | -16740.14 | -0.10 | -3.12 |
| | | | Max. Vy | 28 | -2724.85 | -1.84 | 0.05 |
| | | | Max. Vx | 4 | -2843.57 | 0.04 | -0.02 |
| | | Diagonal | Max Tension | 32 | 21084.82 | 0.00 | 0.00 |
| | | Diagonai | Max. Compression | 2 | -21374.32 | 0.00 | 0.00 |
| | | | Max. Max | 38 | 2313.21 | 0.31 | -0.05 |
| | | | Max. My | 44 | -2446.83 | 0.27 | 0.05 |
| | | | Max. Vy | 38 | -2440.85 | 0.27 | -0.05 |
| | | | Max. Vy Max. Vx | 58 44 | -8.18 | 0.31 | -0.05 |
| Т9 | 180 - 170 | I aa | Max. vx Max Tension | | | | |
| 19 | 100 - 170 | Leg | | 19 | 242911.13 | -2.83 | 0.15 |
| | | | Max. Compression | 12 | -306831.06 | 2.09 | -0.03 |
| | | | Max. Mx | 12 | -305564.53 | 3.22 | -0.02 |
| | | | Max. My | 20 | -18366.23 | 0.00 | 2.17 |
| | | | Max. Vy | 3 | 790.47 | 3.21 | -0.14 |
| | | - · · | Max. Vx | 25 | 834.16 | -1.60 | 2.11 |
| | | Diagonal | Max Tension | 26 | 22598.47 | 0.00 | 0.00 |
| | | | Max. Compression | 24 | -22988.66 | 0.00 | 0.00 |
| | | | Max. Mx | 43 | 2521.17 | 0.34 | 0.05 |
| | | | Max. My | 44 | -3780.51 | 0.32 | 0.05 |
| | | | Max. Vy | 43 | 147.90 | 0.34 | 0.05 |
| | | | Max. Vx | 44 | -8.28 | 0.00 | 0.00 |
| T10 | 170 - 160 | Leg | Max Tension | 19 | 273215.21 | -2.05 | 0.03 |
| | | | Max. Compression | 12 | -344042.23 | 7.48 | -0.24 |
| | | | Max. Mx | 12 | -344042.23 | 7.48 | -0.24 |
| | | | Max. My | 4 | -21170.55 | 0.15 | -5.30 |

tnxTo

| ower | Job | 21007.82 - Colchester | Page 60 of 96 |
|---------------------------------------|---------|--------------------------------|---------------------------|
| neering Inc. Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| CT 06405 3) 488-0580) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Elevation | Component | Condition | Gov. | Axial | Major Axis | Minor Ax |
|---------|-----------|--------------------------|------------------------|----------|------------|------------|----------|
| No. | ft | Туре | | Load | | Moment | Moment |
| | | | | Comb. | lb | kip-ft | kip-ft |
| | | | Max. Vy | 2 | -1057.51 | 7.48 | -0.46 |
| | | | Max. Vx | 25 | -938.38 | -3.55 | 5.12 |
| | | Diagonal | Max Tension | 26 | 23312.68 | 0.00 | 0.00 |
| | | | Max. Compression | 24 | -23844.34 | 0.00 | 0.00 |
| | | | Max. Mx | 43 | 2507.58 | 0.37 | 0.05 |
| | | | Max. My | 36 | -2811.08 | 0.33 | -0.05 |
| | | | Max. Vy | 43 | 155.09 | 0.37 | 0.05 |
| | | | Max. Vx | 36 | 8.56 | 0.00 | 0.00 |
| T11 | 160 - 140 | Leg | Max Tension | 19 | 336997.86 | -2.32 | -0.26 |
| | | e | Max. Compression | 12 | -423691.94 | 5.99 | -0.06 |
| | | | Max. Mx | 12 | -381842.58 | 7.48 | -0.24 |
| | | | Max. My | 4 | -22013.01 | 0.15 | -5.30 |
| | | | Max. Vy | 2 | 1312.90 | 7.48 | -0.46 |
| | | | Max. Vx | 15 | -1006.10 | -1.70 | -4.75 |
| | | Diagonal | Max Tension | 26 | 28338.40 | 0.00 | 0.00 |
| | | Diagonai | Max. Compression | 24 | -29186.23 | 0.00 | 0.00 |
| | | | Max. Max | 43 | 2928.98 | 0.62 | 0.08 |
| | | | Max. My | 45 | 4034.10 | 0.62 | 0.08 |
| | | | Max. My Max. Vy | 43 | 241.63 | 0.61 | 0.08 |
| | | | - | 45 | | 0.02 | 0.08 |
| F12 | 140 120 | I.a.a | Max. Vx May Tension | 45 19 | -12.19 | | |
| Г12 | 140 - 120 | Leg | Max Tension | | 401102.57 | -2.98 | 0.08 |
| | | | Max. Compression | 12 | -504778.08 | -2.51 | 0.32 |
| | | | Max. Mx | 12 | -464344.75 | 5.99 | -0.06 |
| | | | Max. My | 10 | -27219.80 | -1.05 | 6.98 |
| | | | Max. Vy | 2 | 1036.34 | 3.08 | -0.08 |
| | | | Max. Vx | 20 | -1142.89 | -0.20 | 5.75 |
| | | Diagonal | Max Tension | 26 | 30048.77 | 0.00 | 0.00 |
| | | | Max. Compression | 24 | -30934.66 | 0.00 | 0.00 |
| | | | Max. Mx | 42 | 4907.40 | 0.73 | -0.10 |
| | | | Max. My | 45 | 4365.72 | 0.71 | 0.11 |
| | | | Max. Vy | 42 | 263.07 | 0.73 | -0.10 |
| | | | Max. Vx | 45 | -14.93 | 0.00 | 0.00 |
| Г13 | 120 - 100 | Leg | Max Tension | 19 | 411852.79 | 0.51 | 0.18 |
| | | | Max. Compression | 12 | -521185.73 | -15.38 | 0.46 |
| | | | Max. Mx | 12 | -519866.60 | 22.32 | -0.10 |
| | | | Max. My | 20 | -32360.09 | -2.48 | 14.27 |
| | | | Max. Vy | 24 | 4937.90 | 22.29 | -0.86 |
| | | | Max. Vx | 20 | -2837.92 | -2.48 | 14.27 |
| | | Diagonal | Max Tension | 27 | 48160.92 | -0.23 | -0.04 |
| | | Diagonai | Max. Compression | 24 | -50810.41 | 0.00 | 0.00 |
| | | | Max. Mx | 26 | 16570.04 | -0.37 | 0.03 |
| | | | Max. My | 26 | -47109.86 | -0.15 | -0.19 |
| | | | Max. Vy | 42 | -131.64 | -0.32 | -0.00 |
| | | | Max. Vy | 26 | 15.24 | -0.15 | -0.19 |
| | | Horizontal | Max Tension | 26 | 26790.67 | -0.13 | 0.00 |
| | | HOLIZOIIIAI | | | | | |
| | | | Max. Compression | 25 | -27071.48 | -0.19 | -0.03 |
| | | | Max. Mx | 43 | -1325.34 | -0.37 | -0.01 |
| | | | Max. My | 2 | 3483.47 | -0.11 | 0.06 |
| | | | Max. Vy | 43 | 136.23 | -0.37 | -0.01 |
| | | n 1 1 1 | Max. Vx | 2 | -4.92 | 0.00 | 0.00 |
| | | Redund Horz 1 Bracing | Max Tension | 24 | 5184.61 | 0.00 | 0.00 |
| | | | Max. Compression | 11 | -4313.34 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 826.19 | 0.04 | 0.00 |
| | | | Max. Vy | 34 | -26.75 | 0.00 | 0.00 |
| | | Redund Diag 1 Bracing | Max Tension | 11 | 4162.41 | 0.00 | 0.00 |
| | | | Max. Compression | 24 | -4465.48 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -137.31 | 0.08 | 0.00 |
| | | | | | -29.47 | 0.00 | 0.00 |
| | | | Max. Vy | 34 | -29.4/ | 0.00 | 0.00 |

tnxTower

JobPage
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anford Rd.ProjectDate
14:04:33 03/24/22T 06405
488-0580
188-8587ClientDesigned by
TJL

| Section No. | Elevation ft | Component Type | Condition | Gov. Load | Axial | Major Axis Moment | Minor Ax Moment |
|----------------|-----------------|----------------------------------|------------------------|--------------|------------------|----------------------|--------------------|
| | <i>J</i> * | -570 | | Comb. | lb | kip-ft | kip-ft |
| | | Bracing | | | | | |
| | | | Max. Compression | 10 | -49.16 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -20.79 | 0.04 | 0.00 |
| | | | Max. Vy | 34 | 26.75 | 0.00 | 0.00 |
| | | Redund Hip Diagonal 1 Bracing | Max Tension | 2 | 98.47 | 0.00 | 0.00 |
| | | Diagonal I Diachig | Max. Compression | 18 | -96.91 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 63.17 | 0.30 | 0.00 |
| | | | Max. Vy | 34 | 77.92 | 0.00 | 0.00 |
| | | Inner Bracing | Max Tension | 27 | 7.49 | 0.00 | 0.00 |
| | | c | Max. Compression | 2 | -27.73 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -19.45 | 0.34 | 0.00 |
| | | | Max. Vy | 34 | -106.85 | 0.00 | 0.00 |
| T14 | 100 - 80 | Leg | Max Tension | 19 | 466530.20 | 9.67 | 1.49 |
| | | U | Max. Compression | 12 | -591467.34 | -17.80 | -0.33 |
| | | | Max. Mx | 12 | -590313.25 | 25.60 | 0.12 |
| | | | Max. My | 20 | -36383.88 | -2.71 | 14.88 |
| | | | Max. Vy | 12 | 4721.29 | 25.60 | 0.12 |
| | | | Max. Vx | 20 | -2730.59 | -2.71 | 14.88 |
| | | Diagonal | Max Tension | 27 | 49617.02 | -0.27 | -0.04 |
| | | | Max. Compression | 24 | -53229.81 | 0.00 | 0.00 |
| | | | Max. Mx | 26 | 23040.12 | -0.42 | 0.05 |
| | | | Max. My | 26 | -51276.32 | -0.16 | -0.18 |
| | | | Max. Vy | 43 | 143.18 | -0.36 | 0.01 |
| | | | Max. Vx | 26 | -14.40 | -0.16 | -0.18 |
| | | Horizontal | Max Tension | 26 | 29257.68 | -0.31 | 0.00 |
| | | | Max. Compression | 24 | -30472.23 | -0.36 | -0.03 |
| | | | Max. Mx | 43 | 730.22 | -0.53 | -0.01 |
| | | | Max. My | 2 | 126.51 | -0.22 | 0.06 |
| | | | Max. Vy | 43 | -177.29 | -0.53 | -0.01 |
| | | | Max. Vx | 2 | -4.57 | 0.00 | 0.00 |
| | | Redund Horz 1 | Max Tension | 16 | 5925.57 | 0.00 | 0.00 |
| | | Bracing | Man Camanaian | 15 | 5096 50 | 0.00 | 0.00 |
| | | | Max. Compression | 15 | -5086.50 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 1126.94 | 0.05 | 0.00 |
| | | Redund Diag 1 | Max. Vy Max Tension | 34 15 | 29.23 4566.62 | 0.00 0.00 | $0.00 \\ 0.00$ |
| | | Bracing | | | | | |
| | | | Max. Compression | 32 | -4792.90 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -298.39 | 0.11 | 0.00 |
| | | | Max. Vy | 34 | 37.97 | 0.00 | 0.00 |
| | | Redund Hip I Bracing | Max Tension | 27 | 21.18 | 0.00 | 0.00 |
| | | - | Max. Compression | 2 | -48.04 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -21.46 | 0.05 | 0.00 |
| | | | Max. Vy | 34 | -29.23 | 0.00 | 0.00 |
| | | Redund Hip Diagonal 1 Bracing | Max Tension | 2 | 91.32 | 0.00 | 0.00 |
| | | Singenni i Dinving | Max. Compression | 18 | -90.97 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 62.80 | 0.34 | 0.00 |
| | | | Max. Vy | 34 | -84.96 | 0.00 | 0.00 |
| | | Inner Bracing | Max Tension | 27 | 3.98 | 0.00 | 0.00 |
| | | June Drucing | Max. Compression | 2 | -27.51 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -21.08 | 0.41 | 0.00 |
| | | | Max. Vy | 34 | -117.08 | 0.00 | 0.00 |
| T15 | 80 - 60 | Leg | Max Tension | 19 | 522694.47 | 11.51 | 1.72 |
| | 00-00 | LUE | Max. Compression | 12 | -663079.42 | -24.47 | -0.30 |
| | | | Max. Max | 12 | -661779.45 | 33.50 | 0.23 |
| | | | Max. My | 20 | -40982.06 | -3.86 | 20.57 |
| | | | | | | | |
| | | | Max. Vy | 12 | 6245.00 | 33.50 | 0.23 |

tnxTower

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8-0580
-8587ClientDesigned by
TJL

| Section No. | Elevation ft | Component Type | Condition | Gov. Load | Axial | Major Axis Moment | Minor Axi Moment |
|----------------|-----------------|----------------------------------|------------------------|--------------|------------|----------------------|---------------------|
| | 5 | 51 | | Comb. | lb | kip-ft | kip-ft |
| | | Diagonal | Max Tension | 27 | 48528.51 | -0.30 | -0.04 |
| | | Diagonai | Max. Compression | 24 | -53169.30 | 0.00 | 0.00 |
| | | | Max. Max | 24 | 17207.38 | -0.43 | 0.00 |
| | | | | | | -0.43 | |
| | | | Max. My | 26 | -47667.86 | | -0.16 |
| | | | Max. Vy | 43 | 155.53 | -0.41 | 0.00 |
| | | | Max. Vx | 26 | -12.69 | 0.00 | 0.00 |
| | | Horizontal | Max Tension | 27 | 29934.23 | -0.49 | 0.00 |
| | | | Max. Compression | 24 | -31434.28 | -0.72 | -0.03 |
| | | | Max. Mx | 43 | 737.77 | -0.92 | -0.01 |
| | | | Max. My | 2 | 6143.52 | -0.54 | 0.05 |
| | | | Max. Vy | 43 | -287.97 | -0.92 | -0.01 |
| | | | Max. Vx | 2 | -3.32 | 0.00 | 0.00 |
| | | Redund Horz 1 | Max Tension | 26 | 7472.60 | 0.00 | 0.00 |
| | | Bracing | | | | | |
| | | | Max. Compression | 27 | -6293.69 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 1441.55 | 0.07 | 0.00 |
| | | | Max. Vy | 34 | 38.83 | 0.00 | 0.00 |
| | | Redund Diag 1 Bracing | Max Tension | 11 | 5325.69 | 0.00 | 0.00 |
| | | 8 | Max. Compression | 10 | -5744.39 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -409.69 | 0.13 | 0.00 |
| | | | Max. Vy | 34 | -41.29 | 0.00 | 0.00 |
| | | Redund Hip 1 | Max. vy Max Tension | 27 | 15.77 | 0.00 | 0.00 |
| | | Bracing | Max. Compression | 2 | -47.05 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -25.16 | 0.06 | 0.00 |
| | | | Max. Vy | 34 | 31.69 | 0.00 | 0.00 |
| | | Redund Hip Diagonal 1 Bracing | Max Tension | 2 | 93.67 | 0.00 | 0.00 |
| | | 2 ingenin i 2 ine ing | Max. Compression | 47 | -102.10 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 76.38 | 0.48 | 0.00 |
| | | | Max. Vy | 34 | -113.44 | 0.00 | 0.00 |
| | | Inner Bracing | Max Tension | 1 | 0.00 | 0.00 | 0.00 |
| | | miler Bracing | | 2 | -31.22 | 0.00 | 0.00 |
| | | | Max. Compression | | | | |
| | | | Max. Mx | 34 | -27.89 | 0.48 | 0.00 |
| | | - | Max. Vy | 34 | -127.12 | 0.00 | 0.00 |
| T16 | 60 - 30 | Leg | Max Tension | 19 | 578357.93 | 15.54 | 1.81 |
| | | | Max. Compression | 12 | -735094.70 | 6.19 | 0.33 |
| | | | Max. Mx | 12 | -724874.36 | 37.70 | 0.40 |
| | | | Max. My | 4 | -46805.52 | -5.58 | -36.88 |
| | | | Max. Vy | 12 | 6875.72 | 37.70 | 0.40 |
| | | | Max. Vx | 4 | 5536.51 | -5.58 | -36.88 |
| | | Diagonal | Max Tension | 27 | 68386.48 | -0.38 | -0.08 |
| | | 0 | Max. Compression | 24 | -75058.87 | 0.00 | 0.00 |
| | | | Max. Mx | 18 | 50503.95 | -0.51 | 0.39 |
| | | | Max. My | 26 | -67824.83 | 0.25 | -0.68 |
| | | | | | | | |
| | | | Max. Vy | 24 | -113.89 | -0.33 | 0.43 |
| | | TT 1 1 | Max. Vx | 24 | 93.32 | -0.33 | 0.43 |
| | | Horizontal | Max Tension | 10 | 34966.71 | 0.00 | 0.00 |
| | | | Max. Compression | 25 | -35100.22 | -0.49 | -0.04 |
| | | | Max. Mx | 43 | -1765.77 | -0.88 | -0.01 |
| | | | Max. My | 3 | -1774.17 | -0.23 | 0.08 |
| | | | Max. Vy | 43 | 246.93 | -0.88 | -0.01 |
| | | | Max. Vx | 3 | -4.75 | 0.00 | 0.00 |
| | | Redund Horz 1 Bracing | Max Tension | 10 | 6860.84 | 0.00 | 0.00 |
| | | Drueing | Max. Compression | 25 | -5785.23 | 0.00 | 0.00 |
| | | | | | | | |
| | | | Max. Mx | 34 | 1069.43 | 0.03 | 0.00 |
| | | D 1 1 | Max. Vy | 34 | 23.02 | 0.00 | 0.00 |
| | | Redund Horz 2 Bracing | Max Tension | 30 | 4577.85 | 0.00 | 0.00 |

tnxTower

Job

Project

Client

21007.82 - Colchester

Page 63 of 96 Date 14:04:33 03/24/22 Designed by

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

Verizon

320-ft Lattice Tower (CSP #50)

gned by TJL

| Section No. | Elevation ft | Component Type | Condition | Gov. Load | Axial | Major Axis Moment | Minor Axi Moment |
|----------------|-----------------|----------------------------------|-----------------------------|--------------|-----------------|----------------------|---|
| | · | ~ 1 | | Comb. | lb | kip-ft | kip-ft |
| | | | Max. Compression | 25 | -4510.22 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 603.59 | 0.25 | 0.00 |
| | | | Max. Vy | 34 | -92.06 | 0.00 | 0.00 |
| | | Redund Diag 1 Bracing | Max Tension | 27 | 6083.04 | 0.00 | 0.00 |
| | | 28 | Max. Compression | 10 | -6900.02 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -397.33 | 0.08 | 0.00 |
| | | | Max. Vy | 34 | 29.25 | 0.00 | 0.00 |
| | | Redund Diag 2 Bracing | Max Tension | 25 | 4122.67 | 0.00 | 0.00 |
| | | Didenig | Max. Compression | 18 | -3789.39 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -11.31 | 0.26 | 0.00 |
| | | | Max. Vy | 34 | 70.87 | 0.00 | 0.00 |
| | | Redund Hip 1 Bracing | Max Tension | 25 | 170.55 | 0.00 | 0.00 |
| | | Diaeing | Max. Compression | 10 | -176.09 | 0.00 | 0.00 |
| | | | Max. Max | 34 | -9.42 | 0.03 | 0.00 |
| | | | Max. Vy | 34 | 23.02 | 0.00 | 0.00 |
| | | Redund Hip 2 Bracing | Max Tension | 25 | 70.61 | 0.00 | 0.00 |
| | | Diacing | Max. Compression | 10 | -95.53 | 0.00 | 0.00 |
| | | | Max. Compression Max. Mx | 34 | -26.66 | 0.16 | 0.00 |
| | | | Max. Vy | 34 | 56.40 | 0.00 | 0.00 |
| | | Redund Hip Diagonal 1 Bracing | Max. vy Max Tension | 2 | 355.36 | 0.00 | 0.00 |
| | | Diagonal I Diaenig | Max. Compression | 26 | -361.06 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 44.35 | 0.18 | 0.00 |
| | | | Max. Wx Max. Vy | 34 | -50.73 | 0.18 | 0.00 |
| | | Redund Hip Diagonal 2 Bracing | Max. Vy Max Tension | 8 | 121.98 | 0.00 | 0.00 |
| | | Diagonal 2 Bracing | May Compression | 24 | -143.06 | 0.00 | 0.00 |
| | | | Max. Compression | 24 34 | | | 0.00 |
| | | | Max. Mx Max. Vy | 34 | 42.80 -75.86 | 0.34 0.00 | 0.00 |
| | | In an Dan sin a | Max. vy Max Tension | 25 | | 0.00 | 0.00 |
| | | Inner Bracing | | | 44.23 | | |
| | | | Max. Compression | 8 | -60.21 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -21.10 | 0.57 | 0.00 |
| T17 | 20 0 | T | Max. Vy | 34 | -138.41 | 0.00 | 0.00 |
| T17 | 30 - 0 | Leg | Max Tension | 19 | 662277.10 | 14.61 | 4.97 |
| | | | Max. Compression | 12 | -842732.67 | 4.58 | 0.41 |
| | | | Max. Mx | 12 | -837678.30 | 33.64 | 0.57 |
| | | | Max. My | 4 | -50782.94 | -5.57 | -36.87 |
| | | | Max. Vy | 12 | 3865.98 | 33.64 | 0.57 |
| | | | Max. Vx | 4 | -5372.15 | -5.57 | -36.87 |
| | | Diagonal | Max Tension | 27 | 69647.20 | -0.30 | -0.07 |
| | | | Max. Compression | 24 | -74010.73 | 0.00 | 0.00 |
| | | | Max. Mx | 18 | 44152.65 | -0.47 | 0.32 |
| | | | Max. My | 26 | -68786.25 | 0.14 | -0.62 |
| | | | Max. Vy | 47 | 114.83 | -0.27 | 0.07 |
| | | | Max. Vx | 24 | 82.35 | -0.35 | 0.40 |
| | | Horizontal | Max Tension | 11 | 37621.82 | 0.00 | 0.00 |
| | | | Max. Compression | 24 | -41666.82 | -0.89 | -0.06 |
| | | | Max. Mx | 43 | 63.32 | -1.17 | -0.02 |
| | | | Max. My | 2 | 10881.00 | -0.59 | 0.11 |
| | | | Max. Vy | 43 | -313.92 | -1.17 | -0.02 |
| | | Redund Horz 1 | Max. Vx Max Tension | 2 24 | 6.14 4384.22 | -0.59 0.00 | $\begin{array}{c} 0.11 \\ 0.00 \end{array}$ |
| | | Bracing | Max. Compression | 9 | -3469.37 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 598.04 | 0.04 | 0.00 |
| | | | Max. Vy | 34 | -25.64 | 0.00 | 0.00 |
| | | | | | | | |

tnxTower

JobPage
64 of 96Pering Inc.
Imford Rd.ProjectDate
14:04:33 03/24/22Coldons
488-0580
88-8587ClientDesigned by
TJL

| Section | Elevation | Component | Condition | Gov. | Axial | Major Axis | Minor Axi. |
|---------|-----------|----------------------------------|------------------|-------|----------|------------|------------|
| No. | ft | Туре | | Load | | Moment | Moment |
| | | | | Comb. | lb | kip-ft | kip-ft |
| | | Bracing | | | | | |
| | | | Max. Compression | 25 | -3980.81 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 308.22 | 0.30 | 0.00 |
| | | | Max. Vy | 34 | -97.22 | 0.00 | 0.00 |
| | | Redund Diag 1 Bracing | Max Tension | 18 | 3507.76 | 0.00 | 0.00 |
| | | | Max. Compression | 2 | -4021.45 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 2.32 | 0.11 | 0.00 |
| | | | Max. Vy | 34 | 37.41 | 0.00 | 0.00 |
| | | Redund Diag 2 Bracing | Max Tension | 24 | 3569.54 | 0.00 | 0.00 |
| | | 0 | Max. Compression | 19 | -3076.86 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 348.29 | 0.30 | 0.00 |
| | | | Max. Vy | 34 | -79.09 | 0.00 | 0.00 |
| | | Redund Hip 1 Bracing | Max Tension | 25 | 147.19 | 0.00 | 0.00 |
| | | C | Max. Compression | 10 | -157.59 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -13.26 | 0.04 | 0.00 |
| | | | Max. Vy | 34 | -25.64 | 0.00 | 0.00 |
| | | Redund Hip 2 Bracing | Max Tension | 25 | 61.61 | 0.00 | 0.00 |
| | | 0 | Max. Compression | 10 | -89.80 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -29.27 | 0.19 | 0.00 |
| | | | Max. Vv | 34 | -62.81 | 0.00 | 0.00 |
| | | Redund Hip Diagonal 1 Bracing | Max Tension | 2 | 322.27 | 0.00 | 0.00 |
| | | 0 | Max. Compression | 26 | -327.60 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 60.79 | 0.28 | 0.00 |
| | | | Max. Vy | 34 | -74.96 | 0.00 | 0.00 |
| | | Redund Hip Diagonal 2 Bracing | Max Tension | 8 | 118.03 | 0.00 | 0.00 |
| | | | Max. Compression | 24 | -140.45 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | 57.40 | 0.54 | 0.00 |
| | | | Max. Vy | 34 | -112.18 | 0.00 | 0.00 |
| | | Inner Bracing | Max Tension | 25 | 40.14 | 0.00 | 0.00 |
| | | inner Brueing | Max. Compression | 8 | -62.57 | 0.00 | 0.00 |
| | | | Max. Mx | 34 | -26.37 | 0.71 | 0.00 |
| | | | Max. Vy | 34 | -154.05 | 0.00 | 0.00 |

Maximum Reactions

| Location | Condition | Gov. | Vertical | Horizontal, X | Horizontal, Z |
|----------|---------------------|-------|------------|---------------|---------------|
| | | Load | lb | lb | lb |
| | | Comb. | | | |
| Leg C | Max. Vert | 24 | 943360.99 | 114642.46 | -60345.64 |
| | Max. H _x | 24 | 943360.99 | 114642.46 | -60345.64 |
| | Max. H _z | 7 | -727458.28 | -90518.50 | 52051.13 |
| | Min. Vert | 9 | -741734.81 | -94696.74 | 48889.42 |
| | Min. H _x | 9 | -741734.81 | -94696.74 | 48889.42 |
| | Min. Hz | 24 | 943360.99 | 114642.46 | -60345.64 |
| Leg B | Max. Vert | 12 | 944804.96 | -112528.98 | -64056.23 |
| - | Max. H _x | 29 | -740651.84 | 92557.97 | 52555.89 |
| | Max. H _z | 33 | -657918.37 | 75971.85 | 57914.40 |
| | Min. Vert | 29 | -740651.84 | 92557.97 | 52555.89 |
| | Min. H _x | 12 | 944804.96 | -112528.98 | -64056.23 |
| | Min. Hz | 14 | 877268.14 | -100942.16 | -65336.91 |
| Leg A | Max. Vert | 2 | 941971.75 | 4267.72 | 129430.11 |

| toos Toos or | Job | | Page |
|--|---------|--------------------------------|-------------------|
| tnxTower | | 65 of 96 | |
| Centek Engineering Inc. | Project | | Date |
| 63-2 North Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 | Client | | Designed by |
| Phone: (203) 488-0580 FAX: (203) 488-8587 | | Verizon | TJL |

| Location | Condition | Gov. | Vertical | Horizontal, X | Horizontal, Z |
|----------|---------------------|-------|------------|---------------|---------------|
| | | Load | lb | lb | lb |
| | | Comb. | | | |
| | Max. H _x | 26 | 54962.54 | 16961.50 | 4986.47 |
| | Max. H _z | 2 | 941971.75 | 4267.72 | 129430.11 |
| | Min. Vert | 19 | -742776.74 | -4242.44 | -106473.56 |
| | Min. H _x | 13 | -402282.69 | -18364.58 | -58480.49 |
| | Min. H _z | 19 | -742776.74 | -4242.44 | -106473.56 |

Tower Mast Reaction Summary

| Load | Vertical | Shearx | Shear _z | Ou outumin o | Ou oute un in a | Tongua |
|-------------------------------|------------|--------------------|--------------------|---------------------------------------|----------------------------|------------------|
| Combination | veriicai | Snear _x | Snearz | Overturning Moment, M _x | Overturning Moment, Mz | Torque |
| Combination | lb | lb | lb | | | Lin Q |
| D 10.1 | | | | kip-ft | kip-ft | kip-ft |
| Dead Only | 140925.07 | 0.00 | 0.00 | 41.33 | -24.48 | 0.00 |
| 1.2 Dead+1.0 Wind 0 deg - No | 169110.08 | -0.00 | -219836.86 | -31207.34 | -29.38 | 299.88 |
| Ice | 10(000 0) | 0.00 | 21 0026.06 | | | • • • • • • |
| 0.9 Dead+1.0 Wind 0 deg - No | 126832.56 | -0.00 | -219836.86 | -31219.74 | -22.03 | 299.88 |
| Ice | 1(0110.00 | 100552.02 | 1511(0.50 | 24((1.00 | 1 120 ((2 | 255.05 |
| 1.2 Dead+1.0 Wind 30 deg - No | 169110.08 | 100552.93 | -174162.78 | -24661.99 | -14296.62 | 377.85 |
| | 12(022.5(| 100552.02 | 1241 (2.20) | 24(74.20 | 1 4200 27 | 277.05 |
| 0.9 Dead+1.0 Wind 30 deg - No | 126832.56 | 100552.93 | -174162.78 | -24674.39 | -14289.27 | 377.85 |
| Ice | 1 (0110.00 | 120005.04 | 100005.01 | 1000 < 10 | 10005.44 | 250.12 |
| 1.2 Dead+1.0 Wind 45 deg - No | 169110.08 | 139995.84 | -139995.84 | -19806.48 | -19885.46 | 379.13 |
| Ice | 10(000 5) | 120005.04 | 120005.04 | 10010.00 | 10050 11 | 250.12 |
| 0.9 Dead+1.0 Wind 45 deg - No | 126832.56 | 139995.84 | -139995.84 | -19818.88 | -19878.11 | 379.13 |
| Ice | 1.0110.00 | | 07404.00 | 125/200 | | |
| 1.2 Dead+1.0 Wind 60 deg - No | 169110.08 | 168755.60 | -97431.09 | -13763.90 | -23955.06 | 354.58 |
| Ice | 10/000 5/ | | 0.5404.00 | (055) | A AA (F F (| |
| 0.9 Dead+1.0 Wind 60 deg - No | 126832.56 | 168755.60 | -97431.09 | -13776.30 | -23947.71 | 354.58 |
| | 1(0110.00 | 201105.05 | 0.00 | 10 (0 | 205(2.0) | 226.20 |
| 1.2 Dead+1.0 Wind 90 deg - No | 169110.08 | 201105.85 | -0.00 | 49.60 | -28563.86 | 236.30 |
| Ice | 10/000 5/ | 201105.05 | 0.00 | 25.20 | 20224 21 | 224.20 |
| 0.9 Dead+1.0 Wind 90 deg - No | 126832.56 | 201105.85 | -0.00 | 37.20 | -28556.51 | 236.30 |
| Ice | 1 (0110.00 | 100204.21 | 100010 40 | 15(50.05 | 27000 (0 | 54.50 |
| 1.2 Dead+1.0 Wind 120 deg - | 169110.08 | 190384.31 | 109918.43 | 15678.07 | -27098.68 | 54.70 |
| No Ice | 10(000.5(| 100204.21 | 100010 42 | 15//5/7 | 27001.04 | 54.50 |
| 0.9 Dead+1.0 Wind 120 deg - | 126832.56 | 190384.31 | 109918.43 | 15665.67 | -27091.34 | 54.70 |
| No Ice | 1 (0110.00 | 140005 50 | 1 4000 5 50 | 21100.07 | 211 (0.04 | 11.04 |
| 1.2 Dead+1.0 Wind 135 deg - | 169110.08 | 148825.72 | 148825.72 | 21189.06 | -21168.84 | -44.96 |
| No Ice | 10(000 5(| 140005 70 | 140005 70 | 21176.66 | 211(1.40 | 11.07 |
| 0.9 Dead+1.0 Wind 135 deg - | 126832.56 | 148825.72 | 148825.72 | 21176.66 | -21161.49 | -44.96 |
| No Ice | 1 (0110.00 | 100552 02 | 154160.50 | 247(1.10 | 14206.62 | 1 4 1 5 5 |
| 1.2 Dead+1.0 Wind 150 deg - | 169110.08 | 100552.93 | 174162.78 | 24761.18 | -14296.62 | -141.55 |
| No Ice | 10/000 5/ | 100550.00 | 154460 50 | | 1 1200 25 | |
| 0.9 Dead+1.0 Wind 150 deg - | 126832.56 | 100552.93 | 174162.78 | 24748.78 | -14289.27 | -141.55 |
| No Ice | | | 101010 10 | | | |
| 1.2 Dead+1.0 Wind 180 deg - | 169110.08 | 0.00 | 194862.18 | 27676.59 | -29.38 | -299.88 |
| No Ice | | | | | | |
| 0.9 Dead+1.0 Wind 180 deg - | 126832.56 | 0.00 | 194862.18 | 27664.19 | -22.03 | -299.88 |
| No Ice | | | | | | |
| 1.2 Dead+1.0 Wind 210 deg - | 169110.08 | -100552.93 | 174162.78 | 24761.18 | 14237.86 | -377.85 |
| No Ice | | | | | | |
| 0.9 Dead+1.0 Wind 210 deg - | 126832.56 | -100552.93 | 174162.78 | 24748.78 | 14245.21 | -377.85 |
| No Ice | 1/0//0 00 | 10000-01 | 12000 - 0 - | 1000 | 1000-1-0 | 2=2.42 |
| 1.2 Dead+1.0 Wind 225 deg - | 169110.08 | -139995.84 | 139995.84 | 19905.68 | 19826.70 | -379.13 |
| No Ice | 10/000 | 10000501 | 10000 - 0 - | | 1000105 | |
| 0.9 Dead+1.0 Wind 225 deg - | 126832.56 | -139995.84 | 139995.84 | 19893.28 | 19834.05 | -379.13 |
| No Ice | 1/0//0 00 | 10020100 | 100010 10 | | | a - 4 - 6 |
| 1.2 Dead+1.0 Wind 240 deg - | 169110.08 | -190384.30 | 109918.43 | 15678.07 | 27039.93 | -354.58 |

tnxTower

| | Job | | Page |
|-----------------------|---------|--------------------------------|--------------------|
| er | | 21007.82 - Colchester | 66 of 96 |
| ing Inc. | Project | | Date |
| ord Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| 5405 -0580 8587 | Client | Verizon | Designed by TJL |

| Load Combination | Vertical | Shear _x | Shearz | Overturning Moment, M _x | Overturning Moment, Mz | Torque |
|--|------------------------|----------------------|------------------------|---------------------------------------|---------------------------|----------------|
| | lb | lb | lb | kip-ft | kip-ft | kip-ft |
| No Ice 0.9 Dead+1.0 Wind 240 deg - No Ice | 126832.56 | -190384.30 | 109918.43 | 15665.67 | 27047.27 | -354.58 |
| 1.2 Dead+1.0 Wind 270 deg - No Ice | 169110.08 | -201105.85 | 0.00 | 49.60 | 28505.10 | -236.30 |
| 0.9 Dead+1.0 Wind 270 deg - No Ice | 126832.56 | -201105.85 | 0.00 | 37.20 | 28512.45 | -236.30 |
| 1.2 Dead+1.0 Wind 300 deg - No Ice | 169110.08 | -168755.60 | -97431.09 | -13763.90 | 23896.30 | -54.70 |
| 0.9 Dead+1.0 Wind 300 deg - No Ice | 126832.56 | -168755.60 | -97431.09 | -13776.30 | 23903.65 | -54.70 |
| 1.2 Dead+1.0 Wind 315 deg - No Ice | 169110.08 | -139995.84 | -139995.84 | -19806.48 | 19826.70 | 44.96 |
| 0.9 Dead+1.0 Wind 315 deg - No Ice | 126832.56 | -139995.84 | -139995.84 | -19818.88 | 19834.05 | 44.96 |
| 1.2 Dead+1.0 Wind 330 deg - No Ice | 169110.08 | -100552.93 | -174162.78 | -24661.99 | 14237.86 | 141.55 |
| 0.9 Dead+1.0 Wind 330 deg - No Ice | 126832.56 | -100552.93 | -174162.78 | -24674.39 | 14245.21 | 141.55 |
| 1.2 Dead+1.0 Ice+1.0 Temp | 324844.61 | 0.00 | 0.00 | 312.52 | -327.41 | 0.00 |
| 1.2 Dead+1.0 Wind 0 deg+1.0 | 324844.61 | 0.00 | -45988.09 | -6056.40 | -327.41 | 118.09 |
| Ice+1.0 Temp 1.2 Dead+1.0 Wind 30 deg+1.0 | 324844.61 | 21783.80 | -37730.65 | -4904.46 | -3339.44 | 149.70 |
| Ice+1.0 Temp 1.2 Dead+1.0 Wind 45 deg+1.0 Ice+1.0 Temp | 324844.61 | 30521.69 | -30521.69 | -3906.49 | -4546.42 | 150.59 |
| 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp | 324844.61 | 37031.92 | -21380.39 | -2642.03 | -5444.84 | 141.21 |
| 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp | 324844.61 | 43567.60 | 0.00 | 312.52 | -6351.47 | 94.88 |
| 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp | 324844.61 | 39826.86 | 22994.05 | 3496.99 | -5843.06 | 23.12 |
| 1.2 Dead+1.0 Wind 135 deg+1.0 Ice+1.0 Temp | 324844.61 | 31662.72 | 31662.72 | 4694.11 | -4708.99 | -16.41 |
| 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp | 324844.61 | 21783.80 | 37730.65 | 5529.51 | -3339.44 | -54.83 |
| 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp | 324844.61 | 0.00 | 42760.77 | 6221.63 | -327.41 | -118.09 |
| 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp | 324844.61 | -21783.80 | 37730.65 | 5529.51 | 2684.62 | -149.70 |
| 1.2 Dead+1.0 Wind 225 deg+1.0 Ice+1.0 Temp | 324844.61 | -30521.69 | 30521.69 | 4531.54 | 3891.60 | -150.59 |
| 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp | 324844.61 | -39826.86 | 22994.05 | 3496.99 | 5188.24 | -141.21 |
| 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp | 324844.61 | -43567.60 | 0.00 | 312.52 | 5696.65 | -94.88 |
| 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp | 324844.61 | -37031.92 | -21380.39 | -2642.03 | 4790.03 | -23.12 |
| 1.2 Dead+1.0 Wind 315 deg+1.0 Ice+1.0 Temp | 324844.61 | -30521.69 | -30521.69 | -3906.49 | 3891.60 | 16.41 |
| 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp | 324844.61 | -21783.80 | -37730.65 | -4904.46 | 2684.62 | 54.83 |
| Dead+Wind 0 deg - Service | 140925.07 | -0.00 | -40835.43 | -5761.33 | -24.48 | 54.89 |
| Dead+Wind 30 deg - Service | 140925.07 140925.07 | 18697.52 26036.83 | -32385.06 -26036.84 | -4550.87 -3649.25 | -2675.79 -3715.07 | 69.29 69.58 |
| Dead+Wind 45 deg - Service | | | | | | |
| Dead+Wind 60 deg - Service Dead+Wind 90 deg - Service | 140925.07 140925.07 | 31391.90 | -18124.12 | -2526.64 41.33 | -4472.33 -5327.10 | 65.13 43.52 |
| Dead+Wind 120 deg - Service | | 37395.04 35364.52 | -0.00 20417.72 | 2942.66 | -5049.73 | 43.52 |
| Dead+Wind 120 deg - Service | 140925.07 140925.07 | 35364.52 27658.65 | 27658.65 | 2942.66 3967.64 | -3049.73 -3950.79 | -8.04 |
| Dead+Wind 155 deg - Service | 140925.07 | 18697.52 | 32385.06 | 4633.53 | -2675.79 | -25.78 |
| Dead+Wind 180 deg - Service | 140925.07 | 0.00 | 36248.25 | 5177.27 | -24.48 | -54.89 |
| 2 call while roo deg Dervice | 1.0920.07 | 0.00 | 562 10.25 | 5177.27 | 21.10 | 51.09 |

| A T | Job | | Page |
|---|---------|--------------------------------|---------------------------|
| tnxTower | | 21007.82 - Colchester | 67 of 96 |
| Centek Engineering Inc. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| 63-2 North Branford Rd. Branford, CT 06405 | Client | | |
| Phone: (203) 488-0580 | | Verizon | Designed by TJL |
| FAX: (203) 488-8587 | | | I JL |

| Load Combination | Vertical | Shear _x | Shearz | Overturning Moment, M _x | Overturning Moment, M _z | Torque |
|-----------------------------|-----------|--------------------|-----------|---------------------------------------|---------------------------------------|--------|
| | lb | lb | lb | kip-ft | kip-ft | kip-ft |
| Dead+Wind 210 deg - Service | 140925.07 | -18697.52 | 32385.06 | 4633.53 | 2626.83 | -69.29 |
| Dead+Wind 225 deg - Service | 140925.07 | -26036.83 | 26036.84 | 3731.92 | 3666.10 | -69.58 |
| Dead+Wind 240 deg - Service | 140925.07 | -35364.52 | 20417.72 | 2942.66 | 5000.77 | -65.13 |
| Dead+Wind 270 deg - Service | 140925.07 | -37395.04 | 0.00 | 41.33 | 5278.13 | -43.52 |
| Dead+Wind 300 deg - Service | 140925.07 | -31391.90 | -18124.12 | -2526.64 | 4423.37 | -10.24 |
| Dead+Wind 315 deg - Service | 140925.07 | -26036.84 | -26036.83 | -3649.25 | 3666.10 | 8.04 |
| Dead+Wind 330 deg - Service | 140925.07 | -18697.52 | -32385.06 | -4550.87 | 2626.83 | 25.78 |

Solution Summary

| | | m of Applied Forces | | | Sum of Reaction | | |
|-------|------------|---------------------|------------|------------|-----------------|------------|---------|
| Load | PX | PY | PZ | PX | PY | PZ | % Erroi |
| Comb. | lb | lb | lb | lb | lb | lb | |
| 1 | 0.00 | -140925.07 | 0.00 | -0.00 | 140925.07 | -0.00 | 0.000% |
| 2 | 0.00 | -169110.08 | -219836.84 | 0.00 | 169110.08 | 219836.86 | 0.000% |
| 3 | 0.00 | -126832.56 | -219836.84 | 0.00 | 126832.56 | 219836.86 | 0.000% |
| 4 | 100552.92 | -169110.08 | -174162.76 | -100552.93 | 169110.08 | 174162.78 | 0.000% |
| 5 | 100552.92 | -126832.56 | -174162.76 | -100552.93 | 126832.56 | 174162.78 | 0.000% |
| 6 | 139995.83 | -169110.08 | -139995.83 | -139995.84 | 169110.08 | 139995.84 | 0.000% |
| 7 | 139995.83 | -126832.56 | -139995.83 | -139995.84 | 126832.56 | 139995.84 | 0.000% |
| 8 | 168755.59 | -169110.08 | -97431.08 | -168755.60 | 169110.08 | 97431.09 | 0.000% |
| 9 | 168755.59 | -126832.56 | -97431.08 | -168755.60 | 126832.56 | 97431.09 | 0.000% |
| 10 | 201105.84 | -169110.08 | 0.00 | -201105.85 | 169110.08 | 0.00 | 0.000% |
| 11 | 201105.84 | -126832.56 | 0.00 | -201105.85 | 126832.56 | 0.00 | 0.000% |
| 12 | 190384.29 | -169110.08 | 109918.42 | -190384.31 | 169110.08 | -109918.43 | 0.000% |
| 13 | 190384.29 | -126832.56 | 109918.42 | -190384.31 | 126832.56 | -109918.43 | 0.000% |
| 14 | 148825.71 | -169110.08 | 148825.71 | -148825.72 | 169110.08 | -148825.72 | 0.000% |
| 15 | 148825.71 | -126832.56 | 148825.71 | -148825.72 | 126832.56 | -148825.72 | 0.000% |
| 16 | 100552.92 | -169110.08 | 174162.76 | -100552.93 | 169110.08 | -174162.78 | 0.000% |
| 17 | 100552.92 | -126832.56 | 174162.76 | -100552.93 | 126832.56 | -174162.78 | 0.000% |
| 18 | -0.00 | -169110.08 | 194862.17 | -0.00 | 169110.08 | -194862.18 | 0.000% |
| 19 | -0.00 | -126832.56 | 194862.17 | -0.00 | 126832.56 | -194862.18 | 0.000% |
| 20 | -100552.92 | -169110.08 | 174162.76 | 100552.93 | 169110.08 | -174162.78 | 0.000% |
| 21 | -100552.92 | -126832.56 | 174162.76 | 100552.93 | 126832.56 | -174162.78 | 0.000% |
| 22 | -139995.83 | -169110.08 | 139995.83 | 139995.84 | 169110.08 | -139995.84 | 0.000% |
| 23 | -139995.83 | -126832.56 | 139995.83 | 139995.84 | 126832.56 | -139995.84 | 0.000% |
| 24 | -190384.29 | -169110.08 | 109918.42 | 190384.30 | 169110.08 | -109918.43 | 0.000% |
| 25 | -190384.29 | -126832.56 | 109918.42 | 190384.30 | 126832.56 | -109918.43 | 0.000% |
| 26 | -201105.84 | -169110.08 | 0.00 | 201105.85 | 169110.08 | -0.00 | 0.000% |
| 27 | -201105.84 | -126832.56 | 0.00 | 201105.85 | 126832.56 | -0.00 | 0.000% |
| 28 | -168755.59 | -169110.08 | -97431.08 | 168755.60 | 169110.08 | 97431.09 | 0.000% |
| 29 | -168755.59 | -126832.56 | -97431.08 | 168755.60 | 126832.56 | 97431.09 | 0.000% |
| 30 | -139995.83 | -169110.08 | -139995.83 | 139995.84 | 169110.08 | 139995.84 | 0.000% |
| 31 | -139995.83 | -126832.56 | -139995.83 | 139995.84 | 126832.56 | 139995.84 | 0.000% |
| 32 | -100552.92 | -169110.08 | -174162.76 | 100552.93 | 169110.08 | 174162.78 | 0.000% |
| 33 | -100552.92 | -126832.56 | -174162.76 | 100552.93 | 126832.56 | 174162.78 | 0.000% |
| 34 | 0.00 | -324844.61 | 0.00 | -0.00 | 324844.61 | -0.00 | 0.000% |
| 35 | -0.00 | -324844.61 | -45988.09 | -0.00 | 324844.61 | 45988.09 | 0.000% |
| 36 | 21783.80 | -324844.61 | -37730.65 | -21783.80 | 324844.61 | 37730.65 | 0.000% |
| 37 | 30521.69 | -324844.61 | -30521.69 | -30521.69 | 324844.61 | 30521.69 | 0.000% |
| 38 | 37031.91 | -324844.61 | -21380.39 | -37031.92 | 324844.61 | 21380.39 | 0.000% |
| 39 | 43567.60 | -324844.61 | 0.00 | -43567.60 | 324844.61 | -0.00 | 0.000% |
| 40 | 39826.85 | -324844.61 | 22994.04 | -39826.86 | 324844.61 | -22994.05 | 0.000% |
| 40 | 31662.72 | -324844.61 | 31662.72 | -31662.72 | 324844.61 | -31662.72 | 0.000% |
| 42 | 21783.80 | -324844.61 | 37730.65 | -21783.80 | 324844.61 | -37730.65 | 0.000% |
| 43 | 0.00 | -324844.61 | 42760.77 | -0.00 | 324844.61 | -42760.77 | 0.000% |
| 43 | -21783.80 | -324844.61 | 37730.65 | 21783.80 | 324844.61 | -37730.65 | 0.000% |
| 44 | -30521.69 | -324844.61 | 30521.69 | 30521.69 | 324844.61 | -30521.69 | 0.000% |

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|--|---------|--------------------------------|----------------------------------|
| tnxTower | | 21007.82 - Colchester | 68 of 96 |
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| | Su | m of Applied Forces | 1 | | Sum of Reaction | \$ | |
|-------|-----------|---------------------|-----------|-----------|-----------------|-----------|---------|
| Load | PX | PY | PZ | PX | PY | PZ | % Error |
| Comb. | lb | lb | lb | lb | lb | lb | |
| 46 | -39826.85 | -324844.61 | 22994.04 | 39826.86 | 324844.61 | -22994.05 | 0.000% |
| 47 | -43567.60 | -324844.61 | 0.00 | 43567.60 | 324844.61 | -0.00 | 0.000% |
| 48 | -37031.91 | -324844.61 | -21380.39 | 37031.92 | 324844.61 | 21380.39 | 0.000% |
| 49 | -30521.69 | -324844.61 | -30521.69 | 30521.69 | 324844.61 | 30521.69 | 0.000% |
| 50 | -21783.80 | -324844.61 | -37730.65 | 21783.80 | 324844.61 | 37730.65 | 0.000% |
| 51 | 0.00 | -140925.07 | -40835.43 | 0.00 | 140925.07 | 40835.43 | 0.000% |
| 52 | 18697.52 | -140925.07 | -32385.05 | -18697.52 | 140925.07 | 32385.06 | 0.000% |
| 53 | 26036.83 | -140925.07 | -26036.83 | -26036.83 | 140925.07 | 26036.84 | 0.000% |
| 54 | 31391.90 | -140925.07 | -18124.12 | -31391.90 | 140925.07 | 18124.12 | 0.000% |
| 55 | 37395.04 | -140925.07 | 0.00 | -37395.04 | 140925.07 | 0.00 | 0.000% |
| 56 | 35364.52 | -140925.07 | 20417.71 | -35364.52 | 140925.07 | -20417.72 | 0.000% |
| 57 | 27658.65 | -140925.07 | 27658.65 | -27658.65 | 140925.07 | -27658.65 | 0.000% |
| 58 | 18697.52 | -140925.07 | 32385.05 | -18697.52 | 140925.07 | -32385.06 | 0.000% |
| 59 | -0.00 | -140925.07 | 36248.24 | -0.00 | 140925.07 | -36248.25 | 0.000% |
| 60 | -18697.52 | -140925.07 | 32385.05 | 18697.52 | 140925.07 | -32385.06 | 0.000% |
| 61 | -26036.83 | -140925.07 | 26036.83 | 26036.83 | 140925.07 | -26036.84 | 0.000% |
| 62 | -35364.52 | -140925.07 | 20417.71 | 35364.52 | 140925.07 | -20417.72 | 0.000% |
| 63 | -37395.04 | -140925.07 | 0.00 | 37395.04 | 140925.07 | -0.00 | 0.000% |
| 64 | -31391.90 | -140925.07 | -18124.12 | 31391.90 | 140925.07 | 18124.12 | 0.000% |
| 65 | -26036.83 | -140925.07 | -26036.83 | 26036.84 | 140925.07 | 26036.83 | 0.000% |
| 66 | -18697.52 | -140925.07 | -32385.05 | 18697.52 | 140925.07 | 32385.06 | 0.000% |

Maximum Tower Deflections - Service Wind

| Section | Elevation | Horz. | Gov. | Tilt | Twist |
|---------|-----------|------------|-------|--------|--------|
| No. | | Deflection | Load | | |
| | ft | in | Comb. | 0 | D |
| T1 | 320 - 304 | 4.596 | 56 | 0.1049 | 0.0346 |
| T2 | 304 - 300 | 4.241 | 56 | 0.1040 | 0.0351 |
| Т3 | 300 - 280 | 4.152 | 56 | 0.1035 | 0.0352 |
| T4 | 280 - 260 | 3.715 | 56 | 0.1004 | 0.0364 |
| T5 | 260 - 240 | 3.286 | 56 | 0.0985 | 0.0371 |
| T6 | 240 - 220 | 2.861 | 56 | 0.0955 | 0.0351 |
| T7 | 220 - 200 | 2.450 | 56 | 0.0910 | 0.0322 |
| T8 | 200 - 180 | 2.062 | 56 | 0.0848 | 0.0298 |
| Т9 | 180 - 170 | 1.693 | 56 | 0.0784 | 0.0267 |
| T10 | 170 - 160 | 1.518 | 56 | 0.0748 | 0.0251 |
| T11 | 160 - 140 | 1.350 | 56 | 0.0709 | 0.0234 |
| T12 | 140 - 120 | 1.048 | 56 | 0.0621 | 0.0214 |
| T13 | 120 - 100 | 0.782 | 56 | 0.0525 | 0.0192 |
| T14 | 100 - 80 | 0.562 | 56 | 0.0430 | 0.0160 |
| T15 | 80 - 60 | 0.384 | 56 | 0.0331 | 0.0135 |
| T16 | 60 - 30 | 0.250 | 51 | 0.0241 | 0.0112 |
| T17 | 30 - 0 | 0.091 | 51 | 0.0109 | 0.0057 |

Critical Deflections and Radius of Curvature - Service Wind

| Elevation | Appurtenance | Gov. Load | Deflection | Tilt | Twist | Radius of Curvature |
|-----------|----------------------|--------------|------------|--------|--------|------------------------|
| ft | | Comb. | in | 0 | 0 | ft |
| 329.00 | Lightning Rod 5/8x4' | 56 | 4.596 | 0.1049 | 0.0346 | Inf |
| 327.00 | Dual Lights | 56 | 4.596 | 0.1049 | 0.0346 | Inf |

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| ver | Job | 21007.82 - Colchester | Page 69 of 96 |
|-----------------------------|---------|--------------------------------|---------------------------|
| ring Inc. ord Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| 6405 3-0580 -8587 | Client | Verizon | Designed by TJL |

| Elevation | Appurtenance | Gov. | Deflection | Tilt | Twist | Radius of |
|-----------|---|-------|------------|--------|--------|-----------|
| | | Load | | O | o | Curvature |
| ft | | Comb. | in | | | ft |
| 325.00 | PD128-1 | 56 | 4.596 | 0.1049 | 0.0346 | Inf |
| 320.00 | BA1012-0 | 56 | 4.596 | 0.1049 | 0.0346 | Inf |
| 318.00 | ANT450F6 | 56 | 4.552 | 0.1048 | 0.0347 | Inf |
| 300.00 | SC479-HF1LDF | 56 | 4.152 | 0.1035 | 0.0352 | 362777 |
| 290.00 | PD340-1 | 56 | 3.932 | 0.1019 | 0.0357 | 387559 |
| 286.00 | DB809T3E-XC | 56 | 3.845 | 0.1012 | 0.0359 | 468220 |
| 284.00 | 6' Side Mount Standoff | 56 | 3.802 | 0.1009 | 0.0361 | 522488 |
| 283.00 | SC479-HF1LDF(D00I-E6085) (Inverted) | 56 | 3.780 | 0.1008 | 0.0362 | 550965 |
| 264.00 | PD440-2 | 56 | 3.371 | 0.0989 | 0.0372 | Inf |
| 260.00 | 6' Side Mount Standoff | 56 | 3.286 | 0.0985 | 0.0371 | Inf |
| 251.00 | SC479-HF1LDF | 56 | 3.094 | 0.0974 | 0.0364 | 676535 |
| 248.00 | PD1142-1 | 56 | 3.030 | 0.0969 | 0.0361 | 560054 |
| 247.00 | 430-94C-09168-M-11048 TTA | 56 | 3.009 | 0.0968 | 0.0360 | 529662 |
| 246.00 | Sabre T-Boom (1) | 56 | 2.988 | 0.0966 | 0.0359 | 502396 |
| 245.00 | SC479-HF1LDF(D00I-E6085) (Inverted) | 56 | 2.966 | 0.0964 | 0.0357 | 477800 |
| 238.00 | 531-70HD Exposed Dipole Antenna | 56 | 2.819 | 0.0952 | 0.0348 | 341555 |
| 232.00 | Valmont VFA-10-U V-Frame | 56 | 2.694 | 0.0940 | 0.0339 | 259302 |
| 200.00 | PiROD 12' Lightweight T-Frame | 56 | 2.062 | 0.0848 | 0.0298 | 276766 |
| 179.00 | 1151-3 | 56 | 1.676 | 0.0780 | 0.0266 | 190999 |
| 177.00 | DB586-Y | 56 | 1.640 | 0.0773 | 0.0262 | 196816 |
| 176.00 | Pirod 4' Side Mount Standoff (1) | 56 | 1.623 | 0.0770 | 0.0261 | 201092 |
| 175.00 | DB586-Y (inverted) | 56 | 1.605 | 0.0766 | 0.0259 | 205928 |
| 168.00 | L-810 Obstruction Lighting (1) | 56 | 1.484 | 0.0740 | 0.0248 | 167672 |
| 165.00 | L-810 Obstruction Lighting (1) | 56 | 1.433 | 0.0729 | 0.0242 | 123255 |
| 164.00 | L-810 Obstruction Lighting (1) | 56 | 1.416 | 0.0725 | 0.0241 | 112667 |
| 163.00 | Telewave ANT220F2 - Omni | 56 | 1.399 | 0.0721 | 0.0239 | 104223 |
| | Antenna | | | | | |
| 160.00 | Siteprol USF-4U Mount Assembly (Ca = 1.4 assumed) | 56 | 1.350 | 0.0709 | 0.0234 | 90426 |
| 154.00 | Commscope PAR6-59W-PXA/A | 56 | 1.254 | 0.0684 | 0.0227 | 99217 |
| 153.00 | ANT450F6 | 56 | 1.239 | 0.0680 | 0.0226 | 102405 |
| 145.00 | Telewave ANT220F2 - Omni Antenna | 56 | 1.119 | 0.0644 | 0.0218 | 137840 |
| 142.00 | Sitepro1 USF-4U Mount Assembly (Ca = 1.4 assumed) | 56 | 1.076 | 0.0630 | 0.0215 | 155829 |
| 139.00 | DB212-1 | 56 | 1.034 | 0.0616 | 0.0213 | 161416 |
| 117.00 | 3' Wide Ice Shield (for Dish Antennas) (Assume Ca=2.0) | 56 | 0.746 | 0.0510 | 0.0187 | 96267 |
| 115.00 | 8' Wide Ice Shield (for Dish Antennas) (Assume Ca=2.0) | 56 | 0.723 | 0.0501 | 0.0184 | 99475 |
| 112.00 | Andrew 2' w/Radome | 56 | 0.689 | 0.0487 | 0.0180 | 105099 |
| 107.00 | PA8-65 | 56 | 0.635 | 0.0464 | 0.0171 | 116032 |
| 106.00 | Pirod 4' Side Mount Standoff (1) | 56 | 0.624 | 0.0459 | 0.0170 | 118497 |
| 94.00 | PD688S-4 | 56 | 0.504 | 0.0400 | 0.0152 | 117120 |

Maximum Tower Deflections - Design Wind

| Section No. | Elevation | Horz. Deflection | Gov. Load | Tilt | Twist |
|----------------|-----------|---------------------|--------------|--------|--------|
| | ft | in | Comb. | 0 | 0 |
| T1 | 320 - 304 | 24.439 | 12 | 0.5540 | 0.1883 |
| T2 | 304 - 300 | 22.563 | 12 | 0.5495 | 0.1912 |
| T3 | 300 - 280 | 22.094 | 12 | 0.5466 | 0.1918 |
| T4 | 280 - 260 | 19.790 | 12 | 0.5306 | 0.1978 |

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Centek En 63-2 Nor Branfo Phone: FAX: (.

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| xTower | Job | 21007.82 - Colchester | Page 70 of 96 |
|--|---------|--------------------------------|---------------------------|
| Engineering Inc. Jorth Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| nford, CT 06405 2: (203) 488-0580 (203) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Elevation | Horz. | Gov. | Tilt | Twist |
|---------|-----------|------------|-------|--------|--------|
| No. | | Deflection | Load | | |
| | ft | in | Comb. | 0 | 0 |
| T5 | 260 - 240 | 17.522 | 12 | 0.5210 | 0.2014 |
| Т6 | 240 - 220 | 15.275 | 12 | 0.5058 | 0.1908 |
| Τ7 | 220 - 200 | 13.094 | 12 | 0.4828 | 0.1751 |
| T8 | 200 - 180 | 11.031 | 12 | 0.4505 | 0.1619 |
| Т9 | 180 - 170 | 9.071 | 12 | 0.4170 | 0.1454 |
| T10 | 170 - 160 | 8.136 | 12 | 0.3980 | 0.1367 |
| T11 | 160 - 140 | 7.237 | 12 | 0.3776 | 0.1277 |
| T12 | 140 - 120 | 5.624 | 12 | 0.3311 | 0.1164 |
| T13 | 120 - 100 | 4.206 | 12 | 0.2800 | 0.1045 |
| T14 | 100 - 80 | 3.027 | 12 | 0.2297 | 0.0873 |
| T15 | 80 - 60 | 2.069 | 12 | 0.1769 | 0.0734 |
| T16 | 60 - 30 | 1.346 | 2 | 0.1285 | 0.0609 |
| T17 | 30 - 0 | 0.488 | 2 | 0.0583 | 0.0307 |

Critical Deflections and Radius of Curvature - Design Wind

| Elevation | Appurtenance | Gov. | Deflection | Tilt | Twist | Radius of |
|-----------|----------------------------------|-------|------------|----------|--------|-----------|
| | | Load | | | | Curvature |
| ft | | Comb. | in | 0 | 0 | ft |
| 329.00 | Lightning Rod 5/8x4' | 12 | 24.439 | 0.5540 | 0.1883 | Inf |
| 327.00 | Dual Lights | 12 | 24.439 | 0.5540 | 0.1883 | Inf |
| 325.00 | PD128-1 | 12 | 24.439 | 0.5540 | 0.1883 | Inf |
| 320.00 | BA1012-0 | 12 | 24.439 | 0.5540 | 0.1883 | Inf |
| 318.00 | ANT450F6 | 12 | 24.205 | 0.5538 | 0.1887 | Inf |
| 300.00 | SC479-HF1LDF | 12 | 22.094 | 0.5466 | 0.1918 | 71611 |
| 290.00 | PD340-1 | 12 | 20.935 | 0.5382 | 0.1943 | 79606 |
| 286.00 | DB809T3E-XC | 12 | 20.475 | 0.5349 | 0.1957 | 98776 |
| 284.00 | 6' Side Mount Standoff | 12 | 20.247 | 0.5334 | 0.1964 | 112265 |
| 283.00 | SC479-HF1LDF(D00I-E6085) | 12 | 20.132 | 0.5327 | 0.1967 | 120247 |
| | (Inverted) | | | | | |
| 264.00 | PD440-2 | 12 | 17.974 | 0.5230 | 0.2018 | 273362 |
| 260.00 | 6' Side Mount Standoff | 12 | 17.522 | 0.5210 | 0.2014 | 294078 |
| 251.00 | SC479-HF1LDF | 12 | 16.506 | 0.5152 | 0.1983 | 147762 |
| 248.00 | PD1142-1 | 12 | 16.169 | 0.5128 | 0.1966 | 120001 |
| 247.00 | 430-94C-09168-M-11048 TTA | 12 | 16.057 | 0.5120 | 0.1959 | 112928 |
| 246.00 | Sabre T-Boom (1) | 12 | 15.945 | 0.5112 | 0.1952 | 106643 |
| 245.00 | SC479-HF1LDF(D001-E6085) | 12 | 15.833 | 0.5103 | 0.1946 | 101021 |
| | (Inverted) | | | | | |
| 238.00 | 531-70HD Exposed Dipole Antenna | 12 | 15.053 | 0.5039 | 0.1893 | 69931 |
| 232.00 | Valmont VFA-10-U V-Frame | 12 | 14.390 | 0.4977 | 0.1844 | 51474 |
| 200.00 | PiROD 12' Lightweight T-Frame | 12 | 11.031 | 0.4505 | 0.1619 | 55094 |
| 179.00 | 1151-3 | 12 | 8.976 | 0.4152 | 0.1446 | 36769 |
| 177.00 | DB586-Y | 12 | 8.787 | 0.4115 | 0.1428 | 37950 |
| 176.00 | Pirod 4' Side Mount Standoff (1) | 12 | 8.693 | 0.4096 | 0.1420 | 38822 |
| 175.00 | DB586-Y (inverted) | 12 | 8.599 | 0.4077 | 0.1411 | 39813 |
| 168.00 | L-810 Obstruction Lighting (1) | 12 | 7.952 | 0.3941 | 0.1348 | 32098 |
| 165.00 | L-810 Obstruction Lighting (1) | 12 | 7.680 | 0.3880 | 0.1320 | 23315 |
| 164.00 | L-810 Obstruction Lighting (1) | 12 | 7.590 | 0.3860 | 0.1311 | 21252 |
| 163.00 | Telewave ANT220F2 - Omni | 12 | 7.501 | 0.3839 | 0.1302 | 19614 |
| | Antenna | | | | | |
| 160.00 | Sitepro1 USF-4U Mount Assembly | 12 | 7.237 | 0.3776 | 0.1277 | 16952 |
| | (Ca = 1.4 assumed) | | | | | |
| 154.00 | Commscope PAR6-59W-PXA/A | 12 | 6.728 | 0.3645 | 0.1235 | 18614 |
| 153.00 | ANT450F6 | 12 | 6.646 | 0.3622 | 0.1229 | 19222 |
| 145.00 | Telewaye ANT220F2 - Omni | 12 | 6.008 | 0.3434 | 0.1187 | 26013 |
| 115.00 | Antenna | 12 | 0.000 | 0.5 15 1 | 0.1107 | 20012 |
| 142.00 | Sitepro1 USF-4U Mount Assembly | 12 | 5.777 | 0.3361 | 0.1173 | 29495 |
| 1 12.00 | Sheptor Cor To Mount Assembly | 14 | 0.111 | 0.2201 | 0.11/2 | 47175 |

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| tnxTower | | 21007.82 - Colchester | 71 of 96 |
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Elevation | Appurtenance | Gov. | Deflection | Tilt | Twist | Radius of |
|-----------|----------------------------------|-------|------------|--------|--------|-----------|
| | | Load | | | | Curvature |
| ft | | Comb. | in | 0 | 0 | ft |
| | (Ca = 1.4 assumed) | | | | | |
| 139.00 | DB212-1 | 12 | 5.549 | 0.3286 | 0.1159 | 30621 |
| 117.00 | 3' Wide Ice Shield (for Dish | 12 | 4.013 | 0.2724 | 0.1021 | 18232 |
| | Antennas) (Assume Ca=2.0) | | | | | |
| 115.00 | 8' Wide Ice Shield (for Dish | 12 | 3.888 | 0.2674 | 0.1004 | 18814 |
| | Antennas) (Assume Ca=2.0) | | | | | |
| 112.00 | Andrew 2' w/Radome | 12 | 3.706 | 0.2600 | 0.0978 | 19833 |
| 107.00 | PA8-65 | 12 | 3.413 | 0.2475 | 0.0934 | 21802 |
| 106.00 | Pirod 4' Side Mount Standoff (1) | 12 | 3.357 | 0.2450 | 0.0925 | 22243 |
| 94.00 | PD688S-4 | 12 | 2.715 | 0.2138 | 0.0826 | 21835 |

Bolt Design Data

| Section No. | Elevation | Component Type | Bolt Grade | Bolt Size | Number Of | Maximum Load | Allowable Load | Ratio Load | Allowable Ratio | Criteria |
|----------------|-----------|-------------------|---------------|-----------|--------------|-----------------|-------------------|---------------|--------------------|-----------------------|
| | ft | 1)PC | 0,000 | in | Bolts | per Bolt lb | per Bolt lb | Allowable | | |
| T1 | 320 | Diagonal | A325X | 0.6250 | 1 | 1340.52 | 5811.33 | 0.231 🖌 | 1 | Member Block Shear |
| T2 | 304 | Leg | A325N | 1.0000 | 6 | 1309.48 | 54517.00 | 0.024 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.6250 | 1 | 1558.05 | 5811.33 | 0.268 🖌 | 1 | Member Block Shear |
| Т3 | 300 | Leg | A325N | 1.0000 | 8 | 2734.03 | 54517.00 | 0.050 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.6250 | 1 | 3066.10 | 9107.81 | 0.337 🖌 | 1 | Member Block Shear |
| Τ4 | 280 | Leg | A325N | 1.0000 | 8 | 5116.02 | 54517.00 | 0.094 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.7500 | 1 | 4723.82 | 11962.50 | 0.395 🖌 | 1 | Member Block Shear |
| Т5 | 260 | Leg | A325N | 1.0000 | 8 | 8474.44 | 54517.00 | 0.155 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.7500 | 1 | 8216.26 | 14137.50 | 0.581 🖌 | 1 | Member Bearing |
| T6 | 240 | Leg | A325N | 1.0000 | 8 | 13665.50 | 54517.00 | 0.251 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.7500 | 1 | 13662.80 | 17671.90 | 0.773 🖌 | 1 | Member Bearin |
| T7 | 220 | Leg | A325N | 1.0000 | 12 | 13001.50 | 54517.00 | 0.238 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.7500 | 1 | 16907.20 | 21206.30 | 0.797 🖌 | 1 | Member Bearin |
| T8 | 200 | Leg | A325N | 1.0000 | 12 | 17750.10 | 54517.00 | 0.326 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.8750 | 1 | 21084.80 | 24862.50 | 0.848 🖌 | 1 | Member Bearin |
| Т9 | 180 | Leg | A325N | 1.0000 | 12 | 20242.60 | 54517.00 | 0.371 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.8750 | 1 | 22598.50 | 24862.50 | 0.909 🖌 | 1 | Member Bearin |
| T10 | 170 | Diagonal | A325X | 0.8750 | 1 | 23312.70 | 24862.50 | 0.938 🖌 | 1 | Member Bearin |
| T11 | 160 | Leg | A325N | 1.0000 | 12 | 28083.20 | 54517.00 | 0.515 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.8750 | 1 | 29186.20 | 33824.30 | 0.863 🖌 | 1 | Bolt Shear |
| T12 | 140 | Leg | A325N | 1.0000 | 12 | 33425.20 | 54517.00 | 0.613 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.8750 | 1 | 30934.70 | 33824.30 | 0.915 🖌 | 1 | Bolt Shear |
| T13 | 120 | Leg | A325N | 1.0000 | 12 | 34203.90 | 54517.00 | 0.627 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.7500 | 3 | 16936.80 | 24850.50 | 0.682 | 1 | Bolt Shear |
| | | Horizontal | A325X | 0.7500 | 2 | 13535.70 | 24850.50 | 0.545 🗸 | 1 | Bolt Shear |
| | | | | | | | | | | |

| tnxTower | Job | 21007.82 - Colchester | Page 72 of 96 |
|--|---------|--------------------------------|----------------------------------|
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Elevation | Component | Bolt | Bolt Size | Number | Maximum | Allowable | Ratio | Allowable | Criteria |
|---------|-----------|------------|-------|-----------|--------|----------------|----------------|-----------|-----------|--------------|
| No. | G | Туре | Grade | ÷ | Of | Load | Load | Load | Ratio | |
| | ft | | | in | Bolts | per Bolt lb | per Bolt lb | Allowable | | |
| T14 | 100 | Leg | A325N | 1.0000 | 16 | 29089.20 | 54517.00 | 0.534 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.7500 | 3 | 17743.30 | 24850.50 | 0.714 🖌 | 1 | Bolt Shear |
| | | Horizontal | A325X | 0.7500 | 2 | 15236.10 | 24850.50 | 0.613 🖌 | 1 | Bolt Shear |
| T15 | 80 | Leg | A325N | 1.0000 | 16 | 32582.70 | 54517.00 | 0.598 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.7500 | 3 | 17723.10 | 24850.50 | 0.713 🖌 | 1 | Bolt Shear |
| | | Horizontal | A325X | 0.7500 | 2 | 15717.10 | 24850.50 | 0.632 | 1 | Bolt Shear |
| T16 | 60 | Leg | A325N | 1.0000 | 16 | 35494.50 | 54517.00 | 0.651 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.8750 | 3 | 25019.60 | 33824.30 | 0.740 🖌 | 1 | Bolt Shear |
| | | Horizontal | A325X | 0.7500 | 2 | 17550.10 | 24850.50 | 0.706 🖌 | 1 | Bolt Shear |
| T17 | 30 | Leg | A325N | 1.0000 | 24 | 27252.00 | 54517.00 | 0.500 🖌 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.8750 | 3 | 24670.20 | 33824.30 | 0.729 | 1 | Bolt Shear |
| | | Horizontal | A325X | 0.7500 | 2 | 20833.40 | 24850.50 | 0.838 | 1 | Bolt Shear |

Compression Checks

Leg Design Data (Compression)

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|--------------------------------|-------|-------|----------------|---------|------------|------------|--------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T1 | 320 - 304 | ROHN 5 EH | 16.00 | 4.00 | 26.1 K=1.00 | 6.1120 | -7158.49 | 261674.00 | 0.027 1 |
| T2 | 304 - 300 | ROHN 5 EH | 4.00 | 4.00 | 26.1 K=1.00 | 6.1120 | -9868.91 | 261674.00 | 0.038 1 |
| Т3 | 300 - 280 | ROHN 6 EH | 20.03 | 5.01 | 27.4 K=1.00 | 8.4049 | -27177.60 | 358043.00 | 0.076 1 |
| T4 | 280 - 260 | ROHN 8 EH w/ angle 8x8x0.5 | 20.04 | 6.68 | 27.0 K=1.00 | 20.5036 | -51714.50 | 874859.00 | 0.059 1 |
| T5 | 260 - 240 | ROHN 8 EH w/ angle 8x8x0.5 | 20.03 | 6.68 | 27.0 K=1.00 | 20.5036 | -87438.50 | 874884.00 | 0.100 1 |
| T6 | 240 - 220 | ROHN 8 EH w/ angle 8x8x0.5 | 20.03 | 6.68 | 27.0 K=1.00 | 20.5036 | -141251.00 | 874888.00 | 0.161 1 |
| T 7 | 220 - 200 | ROHN 8 EH w/ angle 8x8x0.5 | 20.03 | 10.02 | 40.4 K=1.00 | 20.5036 | -198631.00 | 818638.00 | 0.243 1 |
| T8 | 200 - 180 | ROHN 10 EH w/ angle 8x8x0.5 | 20.04 | 10.02 | 34.6 K=1.00 | 23.8453 | -269963.00 | 982914.00 | 0.275 1 |
| Т9 | 180 - 170 | ROHN 10 EH w/ angle 8x8x0.5 | 10.02 | 10.02 | 34.6 K=1.00 | 23.8453 | -306831.00 | 982929.00 | 0.312 1 |
| T10 | 170 - 160 | ROHN 10 EH w/ angle 8x8x0.5 | 10.02 | 10.02 | 34.6 K=1.00 | 23.8453 | -344042.00 | 982929.00 | 0.350 1 |
| T11 | 160 - 140 | ROHN 10 EH w/ angle 8x8x0.5 | 20.03 | 10.02 | 34.6 K=1.00 | 23.8453 | -423692.00 | 982978.00 | 0.431 1 |
| T12 | 140 - 120 | ROHN 10 EH w/ angle | 20.04 | 10.02 | 34.6 | 23.8453 | -504778.00 | 982899.00 | 0.514^{-1} |

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|---------|--------------------------------|--------------------|
| | 21007.82 - Colchester | 73 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | Verizon | Designed by TJL |

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|----------------------------------|-------|-------|----------------|---------|------------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| | | 8x8x0.5 | | | K=1.00 | | | | 1 |
| T13 | 120 - 100 | ROHN 10 EH w/ angle 8x8x0.5 | 20.06 | 10.03 | 34.7 K=1.00 | 23.8453 | -521186.00 | 982763.00 | 0.530 1 |
| T14 | 100 - 80 | ROHN 10 EH w/ angle 8x8x0.5 | 20.05 | 10.03 | 34.7 K=1.00 | 23.8453 | -591467.00 | 982792.00 | 0.602 1 |
| T15 | 80 - 60 | ROHN 12 EH w/ angle 8x8x0.5 | 20.06 | 10.03 | 29.9 K=1.00 | 26.9670 | -663079.00 | 1136630.00 | 0.583 |
| T16 | 60 - 30 | ROHN 12 EH w/ angle 8x8x0.5 | 30.07 | 10.02 | 29.9 K=1.00 | 26.9670 | -735095.00 | 1136700.00 | 0.647 ¹ |
| T17 | 30 - 0 | ROHN 12 EHS w Angle 8x8x0.625 | 30.08 | 10.03 | 30.2 K=1.00 | 33.3120 | -842733.00 | 1402320.00 | 0.601 ¹ |

¹ $P_u \neq \phi P_n$ controls

T15

80 - 60

ROHN 3 XXS

| | | Diagor | nal Des | sign [| Data (O | Comp | ression |) | |
|----------------|-----------|-------------------|---------|--------|-----------------|--------|-----------|------------|-------------------------|
| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P _u |
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T1 | 320 - 304 | L1 3/4x1 3/4x3/16 | 7.90 | 3.56 | 124.4 K=1.00 | 0.6211 | -1332.75 | 11479.60 | 0.116 |
| T2 | 304 - 300 | L1 3/4x1 3/4x3/16 | 7.90 | 3.56 | 124.4 K=1.00 | 0.6211 | -1579.71 | 11479.60 | 0.138 |
| Т3 | 300 - 280 | L2x2x1/4 | 9.94 | 4.68 | 143.7 K=1.00 | 0.9380 | -3093.64 | 13009.80 | 0.238 |
| T4 | 280 - 260 | L2 1/2x2 1/2x1/4 | 12.59 | 5.83 | 142.4 K=1.00 | 1.1900 | -4792.84 | 16785.10 | 0.286 |
| T5 | 260 - 240 | L3x3x1/4 | 14.38 | 6.72 | 136.3 K=1.00 | 1.4400 | -8474.57 | 22180.60 | 0.382 |
| T6 | 240 - 220 | L4x4x5/16 | 16.19 | 7.64 | 116.9 K=1.01 | 2.4000 | -13647.80 | 50268.80 | 0.271 |
| T7 | 220 - 200 | L4x4x3/8 | 19.37 | 9.30 | 141.7 K=1.00 | 2.8600 | -17543.50 | 40783.20 | 0.430 |
| Т8 | 200 - 180 | L4x4x3/8 | 21.20 | 10.21 | 155.6 K=1.00 | 2.8600 | -21374.30 | 33828.90 | 0.632 |
| Т9 | 180 - 170 | L4x4x3/8 | 22.13 | 10.68 | 162.6 K=1.00 | 2.8600 | -22988.70 | 30962.40 | 0.742 |
| T10 | 170 - 160 | L4x4x3/8 | 23.06 | 11.15 | 169.7 K=1.00 | 2.8600 | -23844.30 | 28413.70 | 0.839 |
| T11 | 160 - 140 | L5x5x1/2 | 24.84 | 12.01 | 146.6 K=1.00 | 4.7500 | -29186.20 | 63217.20 | 0.462 |
| T12 | 140 - 120 | L5x5x1/2 | 26.78 | 13.03 | 159.0 K=1.00 | 4.7500 | -30934.70 | 53762.80 | 0.575 |
| T13 | 120 - 100 | ROHN 3 XXS | 24.42 | 12.21 | 139.9 K=1.00 | 5.4664 | -50810.40 | 63081.40 | 0.805 |
| T14 | 100 - 80 | ROHN 3 XXS | 25.15 | 12.58 | 144.1 | 5.4664 | -53229.80 | 59442.80 | 0.895 |

25.98

12.99

K=1.00

148.9

K=1.00

5.4664

-53169.30

0.955¹

55698.10

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| tnxTower | | 21007.82 - Colchester | 74 of 96 |
| Centek Engineering Inc. | Project | | Date |
| 63-2 North Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 | Client | | Designed by |
| Phone: (203) 488-0580 FAX: (203) 488-8587 | | Verizon | TJL |

| Section | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio |
|---------|-----------|-----------|-------|-------|----------------|-----------------|-----------|------------|------------------------|
| No. | ft | | ft | ft | | in ² | lb | lb | $\frac{P_u}{\phi P_n}$ |
| T16 | 60 - 30 | ROHN 4 EH | 35.21 | 11.74 | 95.4 K=1.00 | 4.4074 | -75058.90 | 101988.00 | 0.736 1 |
| T17 | 30 - 0 | ROHN 4 EH | 36.27 | 12.09 | 98.2 K=1.00 | 4.4074 | -74010.70 | 97939.00 | 0.756 ¹ |

¹ $P_u \neq \phi P_n$ controls

Horizontal Design Data (Compression)

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P |
|----------------|-----------|-------------|-------|-------|-----------------|--------|-----------|------------|------------------------|
| 100. | ft | | ft | ft | | in^2 | lb | lb | $\frac{P_u}{\phi P_n}$ |
| T13 | 120 - 100 | ROHN 3 STD | 25.39 | 12.22 | 126.1 K=1.00 | 2.2285 | -27071.50 | 31679.40 | 0.855 1 |
| T14 | 100 - 80 | ROHN 3 EH | 27.97 | 13.51 | 142.7 K=1.00 | 3.0159 | -30472.20 | 33455.50 | 0.911 ¹ |
| T15 | 80 - 60 | ROHN 3 XXS | 30.47 | 14.70 | 168.5 K=1.00 | 5.4664 | -31434.30 | 43484.00 | 0.723 ¹ |
| T16 | 60 - 30 | ROHN 3.5 EH | 33.14 | 16.04 | 147.3 K=1.00 | 3.6784 | -35100.20 | 38300.30 | 0.916 ¹ |
| T17 | 30 - 0 | ROHN 4 EH | 36.80 | 17.87 | 145.2 K=1.00 | 4.4074 | -41666.80 | 47220.90 | 0.882 1 |

¹ $P_u \neq \phi P_n$ controls

Top Girt Design Data (Compression) Elevation Kl/r P_u Section Size L L_u Α ϕP_n Ratio P_u No. in^2 ft ft ft lb lb ϕP_n T1 320 - 304 L1 3/4x1 3/4x3/16 6.81 6.35 182.6 0.6211 -193.77 5333.23 0.036 1 1 K=0.82 Т3 300 - 280 L2x2x1/4 6.81 6.26 164.3 0.9380 -471.34 9943.51 0.047 1 K=0.86 V

¹ $P_u / \phi P_n$ controls

| | | Redundant Hor | izonta | ul (1) [| Desig | n Data | ı (Comp | pressior | ו) |
|---------|-----------|----------------------|--------|----------------|-------|-----------------|----------|------------|------------------------|
| Section | Elevation | Size | L | L _u | Kl/r | A | P_u | ϕP_n | Ratio |
| No. | ft | | ft | ft | | in ² | lb | lb | $\frac{P_u}{\phi P_n}$ |
| T13 | 120 - 100 | ROHN 1.5 STD | 6.35 | 5.88 | 113.3 | 0.7995 | -9045.93 | 14083.10 | 0.642 1 |

K=1.00

| tnxTower | Job | 21007.82 - Colchester | Page 75 of 96 |
|--|---------|--------------------------------|---------------------------|
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|--------------|------|-------|-----------------|--------|-----------|------------|----------------------|
| 110. | ft | | ft | ft | | in^2 | lb | lb | $\frac{1}{\phi P_n}$ |
| T14 | 100 - 80 | P1.5x.145 | 6.99 | 6.52 | 125.7 K=1.00 | 0.7995 | -10264.50 | 11432.70 | 0.898 ¹ |
| T15 | 80 - 60 | ROHN 2 STD | 7.62 | 7.09 | 108.0 K=1.00 | 1.0745 | -11510.40 | 20598.10 | 0.559 ¹ |
| T16 | 60 - 30 | ROHN 1.5 STD | 5.52 | 4.99 | 96.2 K=1.00 | 0.7995 | -12755.90 | 18282.30 | 0.698 ¹ |
| T17 | 30 - 0 | P1.5x.145 | 6.13 | 5.60 | 108.0 K=1.00 | 0.7995 | -14627.20 | 15339.00 | 0.954 ¹ |

¹ $P_u / \phi P_n$ controls

Redundant Horizontal (2) Design Data (Compression)

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio Pu |
|----------------|-----------|-------------|-------|-------|-----------------|--------|-----------|------------|-------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T16 | 60 - 30 | ROHN 2 XXS | 11.05 | 10.52 | 179.6 K=1.00 | 2.6559 | -12755.90 | 18604.80 | 0.686 1 |
| T17 | 30 - 0 | ROHN 2.5 EH | 12.27 | 11.74 | 152.4 K=1.00 | 2.2535 | -14627.20 | 21919.90 | 0.667 1 |

¹ $P_u \neq \phi P_n$ controls

Redundant Diagonal (1) Design Data (Compression)

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|--------------|-------|-------|-----------------|--------|-----------|------------|--------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T13 | 120 - 100 | ROHN 2 STD | 11.52 | 10.57 | 161.1 K=1.00 | 1.0745 | -8207.03 | 9352.65 | 0.878 1 |
| T14 | 100 - 80 | ROHN 2 EH | 11.86 | 10.98 | 171.6 K=1.00 | 1.4807 | -8705.29 | 11364.10 | 0.766 ¹ |
| T15 | 80 - 60 | ROHN 2 EH | 12.18 | 11.25 | 175.8 K=1.00 | 1.4807 | -9205.33 | 10825.00 | 0.850 1 |
| T16 | 60 - 30 | ROHN 2 EH | 11.15 | 9.95 | 155.3 K=1.00 | 1.4807 | -12872.20 | 13862.10 | 0.929 ¹ |
| T17 | 30 - 0 | ROHN 2.5 STD | 11.41 | 10.31 | 130.6 K=1.00 | 1.7040 | -13607.60 | 22579.60 | 0.603 1 |

¹ $P_u \neq \phi P_n$ controls

Redundant Diagonal (2) Design Data (Compression)

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| tnxTower | | 21007.82 - Colchester | 76 of 96 |
| Centek Engineering Inc. | Project | | Date |
| 63-2 North Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 | Client | | Designed by |
| Phone: (203) 488-0580 FAX: (203) 488-8587 | | Verizon | TJL |

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P_{μ} |
|----------------|-----------|--------------|-------|-------|-----------------|--------|----------|------------|----------------------|
| | ft | | ft | ft | | in^2 | lb | lb | $\frac{1}{\Phi P_n}$ |
| T16 | 60 - 30 | ROHN 2.5 STD | 14.46 | 13.72 | 173.8 K=1.00 | 1.7040 | -8347.79 | 12742.30 | 0.655 1 |
| T17 | 30 - 0 | ROHN 2.5 STD | 15.33 | 14.63 | 185.3 K=1.00 | 1.7040 | -9142.26 | 11206.60 | 0.816 1 |

¹ $P_u \neq \phi P_n$ controls

Redundant Hip (1) Design Data (Compression)

| Section | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio |
|---------|-----------|--------------|------|-------|--------|--------|---------|------------|-----------------------|
| No. | | | | | | | | | P_u |
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T13 | 120 - 100 | ROHN 1.5 STD | 6.35 | 6.35 | 122.3 | 0.7995 | -49.16 | 12066.60 | 0.004 1 |
| | | | | | K=1.00 | | | | ✓ |
| T14 | 100 - 80 | ROHN 1.5 STD | 6.99 | 6.99 | 134.8 | 0.7995 | -48.04 | 9943.20 | 0.005^{-1} |
| | | | | | K=1.00 | | | | ✓ |
| T15 | 80 - 60 | ROHN 1.5 STD | 7.62 | 7.62 | 146.8 | 0.7995 | -47.05 | 8378.50 | 0.006^{-1} |
| | | | | | K=1.00 | | | | ✓ |
| T16 | 60 - 30 | ROHN 1.5 STD | 5.52 | 5.52 | 106.5 | 0.7995 | -176.09 | 15708.50 | 0.011^{-1} |
| | | | | | K=1.00 | | | | × |
| T17 | 30 - 0 | ROHN 1.5 STD | 6.13 | 6.13 | 118.2 | 0.7995 | -157.59 | 12924.00 | 0.012^{-1} |
| | | | | | K=1.00 | | | | 1 |

¹ $P_u / \phi P_n$ controls

Redundant Hip (2) Design Data (Compression)

| Section No. | Elevation | Size | L | L _u | Kl/r | A | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|------------|-------|----------------|-----------------|--------|--------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T16 | 60 - 30 | ROHN 2 STD | 11.05 | 11.05 | 168.4 K=1.00 | 1.0745 | -95.53 | 8559.02 | 0.011 |
| T17 | 30 - 0 | ROHN 2 STD | 12.27 | 12.27 | 187.0 K=1.00 | 1.0745 | -89.80 | 6941.18 | 0.013 1 |

| Redundant Hip Diagonal (1) Design Data (Compression) | | | | | | | | | | | |
|--|-----------|--------------|-------|----------------|-------|-----------------|--------|------------|------------------------|--|--|
| Section | Elevation | Size | L | L _u | Kl/r | A | P_u | ϕP_n | Ratio | | |
| No. | ft | | ft | ft | | in ² | lb | lb | $\frac{P_u}{\phi P_n}$ | | |
| T13 | 120 - 100 | ROHN 2.5 STD | 15.15 | 15.15 | 191.9 | 1.7040 | -96.91 | 10450.60 | 0.009^{-1} | | |

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| tnxTower | | 21007.82 - Colchester | 77 of 96 |
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|--------------|-------|-------|-----------------|--------|---------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| | | | | | K=1.00 | | | | ~ |
| T14 | 100 - 80 | ROHN 2.5 STD | 16.00 | 16.00 | 202.6 K=1.00 | 1.7040 | -90.97 | 9375.46 | 0.010 1 |
| T15 | 80 - 60 | ROHN 3 STD | 16.88 | 16.88 | 174.1 K=1.00 | 2.2285 | -102.10 | 16617.70 | 0.006 1 |
| T16 | 60 - 30 | ROHN 2 STD | 14.10 | 14.10 | 214.9 K=1.00 | 1.0745 | -361.06 | 5254.92 | 0.069 1 |
| T17 | 30 - 0 | ROHN 2.5 STD | 14.88 | 14.88 | 188.4 K=1.00 | 1.7040 | -327.60 | 10840.00 | 0.030 1 |

¹ $P_u \neq \phi P_n$ controls

Redundant Hip Diagonal (2) Design Data (Compression)

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|--------------------------------------|-------|-------|-----------------|--------|---------|------------|-------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T16 | 60 - 30 | ROHN 2 STD | 17.91 | 17.91 | 273.1 K=1.00 | 1.0745 | -143.06 | 3255.91 | 0.044 1 |
| T17 | 30 - 0 | KL/R > 250 (C) - 357 ROHN 2.5 STD | 19.28 | 19.28 | 244.2 K=1.00 | 1.7040 | -140.45 | 6453.40 | 0.022 |

¹ $P_u \neq \phi P_n$ controls

| | Inner Bracing Design Data (Compression) | | | | | | | | | | | |
|----------------|---|------------|-------|-------|-----------------|--------|--------|------------|-------------------------|--|--|--|
| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P _u | | | |
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n | | | |
| T13 | 120 - 100 | ROHN 3 STD | 12.69 | 12.69 | 130.9 K=1.00 | 2.2285 | -27.73 | 29370.40 | 0.001 1 | | | |
| T14 | 100 - 80 | ROHN 3 STD | 13.99 | 13.99 | 144.2 K=1.00 | 2.2285 | -27.51 | 24201.90 | 0.001 1 | | | |
| T15 | 80 - 60 | ROHN 3 STD | 15.24 | 15.24 | 157.1 K=1.00 | 2.2285 | -31.22 | 20393.40 | 0.002 1 | | | |
| T16 | 60 - 30 | ROHN 3 STD | 16.57 | 16.57 | 170.9 K=1.00 | 2.2285 | -60.21 | 17239.70 | 0.003 1 | | | |
| T17 | 30 - 0 | ROHN 3 STD | 18.40 | 18.40 | 189.8 K=1.00 | 2.2285 | -62.57 | 13981.00 | 0.004 1 | | | |

tnxTower

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

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| | 21007.82 - Colchester | 78 of 96 |
| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | Verizon | Designed by TJL |
| | Project | 21007.82 - Colchester Project 320-ft Lattice Tower (CSP #50) Client |

Tension Checks

Leg Design Data (Tension)

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|----------------------------------|-------|-------|------|---------|-----------|------------|-------------------------|
| 110. | ft | | ft | ft | | in^2 | lb | lb | $\frac{1}{\phi P_n}$ |
| T1 | 320 - 304 | ROHN 5 EH | 16.00 | 4.00 | 26.1 | 6.1120 | 5560.46 | 275039.00 | 0.020 |
| T2 | 304 - 300 | ROHN 5 EH | 4.00 | 4.00 | 26.1 | 6.1120 | 7856.86 | 275039.00 | 0.029 |
| Т3 | 300 - 280 | ROHN 6 EH | 20.03 | 5.01 | 27.4 | 8.4049 | 21872.20 | 378222.00 | 0.058 |
| T4 | 280 - 260 | ROHN 8 EH w/ angle 8x8x0.5 | 20.04 | 6.68 | 27.0 | 20.5036 | 40928.20 | 922662.00 | 0.044 |
| T5 | 260 - 240 | ROHN 8 EH w/ angle 8x8x0.5 | 20.03 | 6.68 | 27.0 | 20.5036 | 67795.50 | 922662.00 | 0.073 |
| Т6 | 240 - 220 | ROHN 8 EH w/ angle 8x8x0.5 | 20.03 | 6.68 | 27.0 | 20.5036 | 109324.00 | 922662.00 | 0.118 |
| T 7 | 220 - 200 | ROHN 8 EH w/ angle 8x8x0.5 | 20.03 | 10.02 | 40.4 | 20.5036 | 156018.00 | 922662.00 | 0.169 |
| Т8 | 200 - 180 | ROHN 10 EH w/ angle 8x8x0.5 | 20.04 | 10.02 | 34.6 | 23.8453 | 213001.00 | 1073040.00 | 0.199 |
| Т9 | 180 - 170 | ROHN 10 EH w/ angle 8x8x0.5 | 10.02 | 10.02 | 34.6 | 23.8453 | 242911.00 | 1073040.00 | 0.226 |
| T10 | 170 - 160 | ROHN 10 EH w/ angle 8x8x0.5 | 10.02 | 10.02 | 34.6 | 23.8453 | 273215.00 | 1073040.00 | 0.255 |
| Т11 | 160 - 140 | ROHN 10 EH w/ angle 8x8x0.5 | 20.03 | 10.02 | 34.6 | 23.8453 | 336998.00 | 1073040.00 | 0.314 |
| T12 | 140 - 120 | ROHN 10 EH w/ angle 8x8x0.5 | 20.04 | 10.02 | 34.6 | 23.8453 | 401103.00 | 1073040.00 | 0.374 |
| T13 | 120 - 100 | ROHN 10 EH w/ angle 8x8x0.5 | 20.06 | 10.03 | 34.7 | 23.8453 | 411853.00 | 1073040.00 | 0.384 |
| T14 | 100 - 80 | ROHN 10 EH w/ angle 8x8x0.5 | 20.05 | 10.03 | 34.7 | 23.8453 | 466530.00 | 1073040.00 | 0.435 |
| T15 | 80 - 60 | ROHN 12 EH w/ angle 8x8x0.5 | 20.06 | 10.03 | 29.9 | 26.9670 | 522694.00 | 1213520.00 | 0.431 |
| T16 | 60 - 30 | ROHN 12 EH w/ angle 8x8x0.5 | 30.07 | 10.02 | 29.9 | 26.9670 | 578358.00 | 1213520.00 | 0.477 |
| T17 | 30 - 0 | ROHN 12 EHS w Angle 8x8x0.625 | 30.08 | 10.03 | 30.2 | 33.3120 | 662277.00 | 1499040.00 | 0.442 |

| | Diagonal Design Data (Tension) | | | | | | | | | | |
|---------|--------------------------------|-------------------|------|------|------|-----------------|---------|------------|------------------------|--|--|
| Section | Elevation | Size | L | Lu | Kl/r | A | P_u | ϕP_n | Ratio | | |
| No. | ft | | ft | ft | | in ² | lb | lb | $\frac{P_u}{\phi P_n}$ | | |
| T1 | 320 - 304 | L1 3/4x1 3/4x3/16 | 7.90 | 3.56 | 82.2 | 0.3604 | 1340.52 | 15675.30 | 0.086^{-1} | | |

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

| ower | Job | 21007.82 - Colchester | Page 79 of 96 |
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| neering Inc. Franford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| CT 06405) 488-0580 488-8587 | Client | Verizon | Designed by TJL |

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|-------------------|-------|-------|-------|-----------------|----------|------------|-----------------------------|
| 140. | ft | | ft | ft | | in ² | lb | lb | $\frac{\Gamma_u}{\phi P_n}$ |
| T2 | 304 - 300 | L1 3/4x1 3/4x3/16 | 7.90 | 3.56 | 82.2 | 0.3604 | 1558.05 | 15675.30 | 0.099 |
| T3 | 300 - 280 | L2x2x1/4 | 9.94 | 4.68 | 94.6 | 0.5629 | 3066.10 | 24485.10 | 0.125 |
| T4 | 280 - 260 | L2 1/2x2 1/2x1/4 | 12.59 | 5.83 | 93.1 | 0.7284 | 4723.82 | 31687.00 | 0.149 |
| T5 | 260 - 240 | L3x3x1/4 | 14.38 | 6.72 | 88.5 | 0.9159 | 8216.26 | 44652.00 | 0.184 |
| T6 | 240 - 220 | L4x4x5/16 | 16.19 | 7.64 | 75.2 | 1.5949 | 13662.80 | 77752.40 | 0.176 |
| T 7 | 220 - 200 | L4x4x3/8 | 19.37 | 9.30 | 92.1 | 1.8989 | 16907.20 | 92571.70 | 0.183 |
| Т8 | 200 - 180 | L4x4x3/8 | 21.20 | 10.21 | 101.1 | 1.8637 | 21084.80 | 90857.80 | 0.232 |
| Т9 | 180 - 170 | L4x4x3/8 | 22.13 | 10.68 | 105.6 | 1.8637 | 22598.50 | 90857.80 | 0.249 |
| T10 | 170 - 160 | L4x4x3/8 | 23.06 | 11.15 | 110.2 | 1.8637 | 23312.70 | 90857.80 | 0.257 |
| T11 | 160 - 140 | L5x5x1/2 | 24.84 | 12.01 | 94.8 | 3.1875 | 28338.40 | 155391.00 | 0.182 |
| T12 | 140 - 120 | L5x5x1/2 | 26.78 | 13.03 | 102.7 | 3.1875 | 30048.80 | 155391.00 | 0.193 |
| T13 | 120 - 100 | ROHN 3 XXS | 24.42 | 12.21 | 139.9 | 5.4664 | 48160.90 | 245987.00 | 0.196 |
| T14 | 100 - 80 | ROHN 3 XXS | 25.15 | 12.58 | 144.1 | 5.4664 | 49617.00 | 245987.00 | 0.202 |
| T15 | 80 - 60 | ROHN 3 XXS | 25.98 | 12.99 | 148.9 | 5.4664 | 48528.50 | 245987.00 | 0.197 |
| T16 | 60 - 30 | ROHN 4 EH | 35.21 | 11.74 | 95.4 | 4.4074 | 68386.50 | 198335.00 | 0.345 |
| T17 | 30 - 0 | ROHN 4 EH | 36.27 | 12.09 | 98.2 | 4.4074 | 69647.20 | 198335.00 | 0.351 |

¹ $P_u \neq \phi P_n$ controls

Horizontal Design Data (Tension)

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|-------------|-------|-------|-------|--------|----------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T13 | 120 - 100 | ROHN 3 STD | 25.39 | 12.22 | 126.1 | 2.2285 | 26790.70 | 100281.00 | 0.267 1 |
| T14 | 100 - 80 | ROHN 3 EH | 27.97 | 13.51 | 142.7 | 3.0159 | 29257.70 | 135717.00 | 0.216 ¹ |
| T15 | 80 - 60 | ROHN 3 XXS | 30.47 | 14.70 | 168.5 | 5.4664 | 29934.20 | 245987.00 | 0.122^{-1} |
| T16 | 60 - 30 | ROHN 3.5 EH | 33.14 | 16.04 | 147.3 | 3.6784 | 34966.70 | 165529.00 | 0.211 |

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| tnxTower | 21007.82 - Colchester | 80 of 96 |
| Centek Engineering Inc. | Project | Date |
| 63-2 North Branford Rd. | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client Verizon | Designed by TJL |

| Section | Elevation | Size | L | Lu | Kl/r | Α | P_u | ϕP_n | Ratio |
|---------|-----------|-----------|-------|-------|-------|--------|----------|------------|------------------------|
| No. | ft | | ft | ft | | in^2 | lb | lb | $\frac{P_u}{\phi P_n}$ |
| T17 | 30 - 0 | ROHN 4 EH | 36.80 | 17.87 | 145.2 | 4.4074 | 37621.80 | 198335.00 | 0.190 ¹ |

¹ $P_u \neq \phi P_n$ controls

| | Top Girt Design Data (Tension) | | | | | | | | |
|----------------|--------------------------------|-------------------|------|-------|-------|--------|--------|------------|--------------------|
| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P_{μ} |
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T1 | 320 - 304 | L1 3/4x1 3/4x3/16 | 6.81 | 6.35 | 141.8 | 0.6211 | 182.33 | 20123.40 | 0.009 1 |
| Т3 | 300 - 280 | L2x2x1/4 | 6.81 | 6.26 | 123.3 | 0.9380 | 471.34 | 30391.20 | 0.016 1 |

¹ $P_u \neq \phi P_n$ controls

Redundant Horizontal (1) Design Data (Tension)

| Section | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio |
|---------|-----------|--------------|------|-------|-------|--------|----------|------------|------------------------|
| No. | ft | | ft | ft | | in^2 | lb | lb | $\frac{P_u}{\phi P_n}$ |
| T13 | 120 - 100 | ROHN 1.5 STD | 6.35 | 5.88 | 113.3 | 0.7995 | 9045.93 | 35975.60 | 0.251 1 |
| T14 | 100 - 80 | P1.5x.145 | 6.99 | 6.52 | 125.7 | 0.7995 | 10264.50 | 35975.60 | 0.285 1 |
| T15 | 80 - 60 | ROHN 2 STD | 7.62 | 7.09 | 108.0 | 1.0745 | 11510.40 | 48353.90 | 0.238 1 |
| T16 | 60 - 30 | ROHN 1.5 STD | 5.52 | 4.99 | 96.2 | 0.7995 | 12755.90 | 35975.60 | 0.355 1 |
| T17 | 30 - 0 | P1.5x.145 | 6.13 | 5.60 | 108.0 | 0.7995 | 14627.20 | 35975.60 | 0.407 1 |

| | Redundant Horizontal (2) Design Data (Tension) | | | | | | | | | | |
|----------------|--|-------------|-------|----------------|-------|-----------------|----------|------------|------------------------|--|--|
| Section No. | Elevation | Size | L | L _u | Kl/r | A | Pu | ϕP_n | Ratio | | |
| NO. | ft | | ft | ft | | in ² | lb | lb | $\frac{P_u}{\phi P_n}$ | | |
| T16 | 60 - 30 | ROHN 2 XXS | 11.05 | 10.52 | 179.6 | 2.6559 | 12755.90 | 119516.00 | 0.107 1 | | |
| T17 | 30 - 0 | ROHN 2.5 EH | 12.27 | 11.74 | 152.4 | 2.2535 | 14627.20 | 101409.00 | 0.144^{-1} | | |

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|----------------|--|---------|--|----------------|-----------|-----------------|-------|------------|---------------------|--------------------|--|
| | tek Engineering Inc. 3-2 North Branford Rd. | Project | Project 320-ft Lattice Tower (CSP #50) Client Verizon | | | | | | | 03/24/22 | |
| | Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | | | | | | | | Designed by TJL | |
| | | | | | | | | | | | |
| Section No. | Elevation | Size | L | L _u | Kl/r | A | P_u | ϕP_n | Ratio | | |
| 140. | ft | | ft | ft | | in ² | lb | lb | P_u ϕP_n | | |

¹ $P_u \neq \phi P_n$ controls

Redundant Diagonal (1) Design Data (Tension)

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|--------------|-------|-------|-------|--------|----------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T13 | 120 - 100 | ROHN 2 STD | 11.52 | 10.57 | 161.1 | 1.0745 | 8207.03 | 48353.90 | 0.170 |
| T14 | 100 - 80 | ROHN 2 EH | 11.86 | 10.98 | 171.6 | 1.4807 | 8705.29 | 66630.70 | 0.131 |
| T15 | 80 - 60 | ROHN 2 EH | 12.18 | 11.25 | 175.8 | 1.4807 | 9205.33 | 66630.70 | 0.138 |
| T16 | 60 - 30 | ROHN 2 EH | 11.15 | 9.95 | 155.3 | 1.4807 | 12872.20 | 66630.70 | 0.193 |
| T17 | 30 - 0 | ROHN 2.5 STD | 11.41 | 10.31 | 130.6 | 1.7040 | 13607.60 | 76682.30 | 0.177 |

¹ $P_u \neq \phi P_n$ controls

Redundant Diagonal (2) Design Data (Tension)

| Section No. | Elevation | Size | L | L _u | Kl/r | A | Pu | ϕP_n | Ratio P _u |
|----------------|-----------|--------------|-------|----------------|-------|--------|---------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T16 | 60 - 30 | ROHN 2.5 STD | 14.46 | 13.72 | 173.8 | 1.7040 | 8347.79 | 76682.30 | 0.109 1 |
| T17 | 30 - 0 | ROHN 2.5 STD | 15.33 | 14.63 | 185.3 | 1.7040 | 9142.26 | 76682.30 | 0.119 1 |

| | | Redunda | ant Hip |) (1) D | esign | n Data | (Tensi | on) | |
|----------------|-----------|--------------|---------|----------------|-------|--------|--------|------------|-------------------------|
| Section No. | Elevation | Size | L | L _u | Kl/r | Α | P_u | ϕP_n | Ratio P _u |
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T13 | 120 - 100 | ROHN 1.5 STD | 6.35 | 6.35 | 122.3 | 0.7995 | 23.32 | 35975.60 | 0.001 1 |
| T14 | 100 - 80 | ROHN 1.5 STD | 6.99 | 6.99 | 134.8 | 0.7995 | 21.18 | 35975.60 | 0.001 1 |

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| tnxTower | | 21007.82 - Colchester | 82 of 96 |
| Centek Engineering Inc. | Project | | Date |
| 63-2 North Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 | Client | | Designed by |
| Phone: (203) 488-0580 FAX: (203) 488-8587 | | Verizon | TJL |

| Section No. | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|--------------|------|-------|-------|--------|--------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T15 | 80 - 60 | ROHN 1.5 STD | 7.62 | 7.62 | 146.8 | 0.7995 | 15.77 | 35975.60 | 0.000 1 |
| T16 | 60 - 30 | ROHN 1.5 STD | 5.52 | 5.52 | 106.5 | 0.7995 | 170.54 | 35975.60 | 0.005 1 |
| T17 | 30 - 0 | ROHN 1.5 STD | 6.13 | 6.13 | 118.2 | 0.7995 | 147.19 | 35975.60 | 0.004 1 |

¹ $P_u / \phi P_n$ controls

Redundant Hip (2) Design Data (Tension)

| Section No. | Elevation | Size | L | L _u | Kl/r | A | Pu | ϕP_n | Ratio P _u |
|----------------|-----------|------------|-------|----------------|-------|--------|-------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T16 | 60 - 30 | ROHN 2 STD | 11.05 | 11.05 | 168.4 | 1.0745 | 70.61 | 48353.90 | 0.001 |
| T17 | 30 - 0 | ROHN 2 STD | 12.27 | 12.27 | 187.0 | 1.0745 | 61.61 | 48353.90 | 0.001 1 |

¹ $P_u \neq \phi P_n$ controls

Redundant Hip Diagonal (1) Design Data (Tension)

| Section | Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio |
|---------|-----------|--------------|-------|-------|-------|-----------------|--------|------------|--------------------------------|
| No. | ft | | ft | ft | | in ² | lb | lb | $\frac{P_u}{\Phi P_n}$ |
| T13 | 120 - 100 | ROHN 2.5 STD | 15.15 | 15.15 | 191.9 | 1.7040 | 98.47 | 76682.30 | $\frac{\varphi_n}{0.001^{-1}}$ |
| T14 | 100 - 80 | ROHN 2.5 STD | 16.00 | 16.00 | 202.6 | 1.7040 | 91.32 | 76682.30 | 0.001 1 |
| T15 | 80 - 60 | ROHN 3 STD | 16.88 | 16.88 | 174.1 | 2.2285 | 93.67 | 100281.00 | 0.001 1 |
| T16 | 60 - 30 | ROHN 2 STD | 14.10 | 14.10 | 214.9 | 1.0745 | 355.36 | 48353.90 | 0.007^{-1} |
| T17 | 30 - 0 | ROHN 2.5 STD | 14.88 | 14.88 | 188.4 | 1.7040 | 322.27 | 76682.30 | 0.004 1 |

¹ $P_u \neq \phi P_n$ controls

Redundant Hip Diagonal (2) Design Data (Tension)

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| tnxTower | | 21007.82 - Colchester | 83 of 96 |
| Centek Engineering Inc. 63-2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:04:33 03/24/22 |
| Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Elevation | Size | L | L_u | Kl/r | Α | P_u | ϕP_n | Ratio |
|-----------|----------------------|---------------------------------|--|---|---|--|---|--|
| | | | | | . 2 | | | P_u |
| ft | | ft | ft | | in ² | lb | lb | ϕP_n |
| 60 - 30 | ROHN 2 STD | 17.91 | 17.91 | 273.1 | 1.0745 | 121.98 | 48353.90 | 0.003^{-1} |
| | | | | | | | | ✓ |
| 30 - 0 | ROHN 2.5 STD | 19.28 | 19.28 | 244.2 | 1.7040 | 118.03 | 76682.30 | 0.002^{-1} |
| | | | | | | | | V |
| | <i>ft</i> 60 - 30 | <i>ft</i> 60 - 30 ROHN 2 STD | <i>ft ft</i> 60 - 30 ROHN 2 STD 17.91 | <i>ft ft ft</i> 60 - 30 ROHN 2 STD 17.91 17.91 | <i>ft ft ft</i> 60 - 30 ROHN 2 STD 17.91 17.91 273.1 | <i>ft ft ft in</i> ² 60 - 30 ROHN 2 STD 17.91 17.91 273.1 1.0745 | ft ft in² lb 60 - 30 ROHN 2 STD 17.91 17.91 273.1 1.0745 121.98 | ft ft ft in ² lb lb 60 - 30 ROHN 2 STD 17.91 17.91 273.1 1.0745 121.98 48353.90 |

¹ $P_u \neq \phi P_n$ controls

Inner Bracing Design Data (Tension)

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|------------|-------|-------|-------|--------|-------|------------|--------------|
| | ft | | ft | ft | | in^2 | lb | lb | ϕP_n |
| T13 | 120 - 100 | ROHN 3 STD | 12.69 | 12.69 | 130.9 | 2.2285 | 7.49 | 100281.00 | 0.000 1 |
| T14 | 100 - 80 | ROHN 3 STD | 13.99 | 13.99 | 144.2 | 2.2285 | 3.98 | 100281.00 | 0.000^{-1} |
| T16 | 60 - 30 | ROHN 3 STD | 16.57 | 16.57 | 170.9 | 2.2285 | 44.23 | 100281.00 | 0.000^{-1} |
| T17 | 30 - 0 | ROHN 3 STD | 18.40 | 18.40 | 189.8 | 2.2285 | 40.14 | 100281.00 | 0.000 1 |

¹ $P_u \neq \phi P_n$ controls

Section Capacity Table

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ${}^{ 	heta P_{allow}}_{lb}$ | % Capacity | Pass Fail |
|----------------|-----------------|-------------------|----------------------------|---------------------|------------|------------------------------|---------------|--------------|
| T1 | 320 - 304 | Leg | ROHN 5 EH | 1 | -7158.49 | 261674.00 | 2.7 | Pass |
| | | Leg | ROHN 5 EH | 2 | -7090.15 | 261674.00 | 2.7 | Pass |
| | | Leg | ROHN 5 EH | 3 | -7130.20 | 261674.00 | 2.7 | Pass |
| T2 | 304 - 300 | Leg | ROHN 5 EH | 31 | -9868.91 | 261674.00 | 3.8 | Pass |
| | | Leg | ROHN 5 EH | 32 | -9805.77 | 261674.00 | 3.7 | Pass |
| | | Leg | ROHN 5 EH | 33 | -9842.29 | 261674.00 | 3.8 | Pass |
| T3 | 300 - 280 | Leg | ROHN 6 EH | 40 | -27177.60 | 358043.00 | 7.6 | Pass |
| | | Leg | ROHN 6 EH | 41 | -26683.20 | 358043.00 | 7.5 | Pass |
| | | Leg | ROHN 6 EH | 42 | -26893.20 | 358043.00 | 7.5 | Pass |
| T4 | 280 - 260 | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 70 | -51714.50 | 874859.00 | 5.9 | Pass |
| | | | | | | | 9.3 (b) | |
| | | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 71 | -51445.10 | 874859.00 | 5.9 | Pass |
| | | | - | | | | 9.4 (b) | |
| | | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 72 | -51499.80 | 874859.00 | 5.9 | Pass |
| | | | | | | | 9.4 (b) | |
| T5 | 260 - 240 | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 91 | -86808.40 | 874884.00 | 9.9 | Pass |
| | | | | | | | 15.5 (b) | |
| | | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 92 | -87438.50 | 874884.00 | 10.0 | Pass |
| | | | | | | | 15.5 (b) | |
| | | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 93 | -86513.70 | 874884.00 | 9.9 | Pass |
| | | | | | | | 15.5 (b) | |
| T6 | 240 - 220 | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 112 | -140478.00 | 874888.00 | 16.1 | Pass |

tnxTower

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| Project | | Date |
| | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Client | ., . | Designed by |
| | Verizon | TJL |

| Section | Elevation | Component | Size | Critical | Р | | % | Pass |
|-------------|-----------|-----------|--|----------|------------|--------------------|----------------------------|----------|
| No. | ft | Туре | | Element | lb | lb | Capacity | Fail |
| | | | | | | | 25.1 (b) | |
| | | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 113 | -141251.00 | 874888.00 | 16.1 | Pass |
| | | | | | | | 24.9 (b) | - |
| | | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 114 | -140514.00 | 874888.00 | 16.1 | Pass |
| m 7 | 220 200 | Ŧ | | 100 | 107502.00 | 010/00 00 | 25.1 (b) | P |
| T7 | 220 - 200 | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 133 | -197583.00 | 818638.00 | 24.1 | Pass |
| | | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 134 | -198631.00 | 818638.00 | 24.3 | Pass |
| TO | 200 - 180 | Leg | ROHN 8 EH w/ angle 8x8x0.5 | 135 | -197623.00 | 818638.00 | 24.1 | Pass |
| Т8 | 200 - 180 | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 148 | -268445.00 | 982914.00 | 27.3 | Pass |
| | | Las | ROHN 10 EH w/ angle 8x8x0.5 | 149 | -269963.00 | 982914.00 | 32.6 (b) 27.5 | Dasa |
| | | Leg | KOHN TO EH w/ aligle 8x8x0.5 | 149 | -209903.00 | 962914.00 | 32.4 (b) | Pass |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 150 | -268385.00 | 982914.00 | 27.3 | Pass |
| | | Leg | KOTIN TO EIT w/ angle 8x8x0.5 | 150 | -208585.00 | 902914.00 | 32.6 (b) | 1 455 |
| Т9 | 180 - 170 | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 163 | -305251.00 | 982929.00 | 31.1 | Pass |
| 17 | 100 - 170 | Leg | Rolliv to Ell w/ angle 0x0x0.5 | 105 | -505251.00 | 902929.00 | 37.1 (b) | 1 435 |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 164 | -306831.00 | 982929.00 | 31.2 | Pass |
| | | 105 | reem, to En as angle oxoxolo | 101 | 200021.00 | ,02,2,.00 | 37.0 (b) | 1 400 |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 165 | -305032.00 | 982929.00 | 31.0 | Pass |
| | | 205 | iterit i i i i i i i i i i i i i i i i i i | 100 | 202022100 | ,02,2,1,00 | 37.1 (b) | 1 400 |
| T10 | 170 - 160 | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 172 | -342454.00 | 982929.00 | 34.8 | Pass |
| 110 | 170 100 | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 173 | -344042.00 | 982929.00 | 35.0 | Pass |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 174 | -342144.00 | 982929.00 | 34.8 | Pass |
| T11 | 160 - 140 | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 181 | -422854.00 | 982978.00 | 43.0 | Pass |
| | | 8 | | 201 | | | 51.4 (b) | 2 1100 |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 182 | -423692.00 | 982978.00 | 43.1 | Pass |
| | | 8 | | | | | 51.3 (b) | |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 183 | -421657.00 | 982978.00 | 42.9 | Pass |
| | | e | e | | | | 51.5 (b) | |
| T12 | 140 - 120 | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 196 | -503937.00 | 982899.00 | 51.3 | Pass |
| | | e | e | | | | 61.2 (b) | |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 197 | -504778.00 | 982899.00 | 51.4 | Pass |
| | | | | | | | 61.1 (b) | |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 198 | -502521.00 | 982899.00 | 51.1 | Pass |
| | | | | | | | 61.3 (b) | |
| T13 | 120 - 100 | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 211 | -520657.00 | 982763.00 | 53.0 | Pass |
| | | | | | | | 62.6 (b) | |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 212 | -521186.00 | 982763.00 | 53.0 | Pass |
| | | | | | | | 62.5 (b) | |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 213 | -519429.00 | 982763.00 | 52.9 | Pass |
| | | | | | | | 62.7 (b) | |
| T14 | 100 - 80 | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 244 | -590748.00 | 982792.00 | 60.1 | Pass |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 245 | -591467.00 | 982792.00 | 60.2 | Pass |
| | | Leg | ROHN 10 EH w/ angle 8x8x0.5 | 246 | -589431.00 | 982792.00 | 60.0 | Pass |
| T15 | 80 - 60 | Leg | ROHN 12 EH w/ angle 8x8x0.5 | 277 | -662123.00 | 1136630.00 | 58.3 | Pass |
| | | | | | | | 59.7 (b) | |
| | | Leg | ROHN 12 EH w/ angle 8x8x0.5 | 278 | -663079.00 | 1136630.00 | 58.3 | Pass |
| | | | | | | | 59.6 (b) | |
| | | Leg | ROHN 12 EH w/ angle 8x8x0.5 | 279 | -660769.00 | 1136630.00 | 58.1 | Pass |
| | | | | | | | 59.8 (b) | |
| T16 | 60 - 30 | Leg | ROHN 12 EH w/ angle 8x8x0.5 | 310 | -734048.00 | 1136700.00 | 64.6 | Pass |
| | | _ | | | | | 65.0 (b) | _ |
| | | Leg | ROHN 12 EH w/ angle 8x8x0.5 | 311 | -735095.00 | 1136700.00 | 64.7 | Pass |
| | | _ | | | | | 64.9 (b) | _ |
| | | Leg | ROHN 12 EH w/ angle 8x8x0.5 | 312 | -732712.00 | 1136700.00 | 64.5 | Pass |
| T 15 | | | B 0 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B | | 0.0000000 | | 65.1 (b) | - |
| T17 | 30 - 0 | Leg | ROHN 12 EHS w Angle | 361 | -841386.00 | 1402320.00 | 60.0 | Pass |
| | | Ŧ | 8x8x0.625 | | 0.40500.00 | 1 40 0 0 0 0 0 0 0 | <i>(</i>) <i>:</i> | |
| | | Leg | ROHN 12 EHS w Angle | 362 | -842733.00 | 1402320.00 | 60.1 | Pass |
| | | I | 8x8x0.625 | 262 | 820078 00 | 1403230.00 | 50.0 | D |
| | | Leg | ROHN 12 EHS w Angle | 363 | -0599/8.00 | 1402320.00 | 59.9 | Pass |
| | | | | | | | | |

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| | Date |
| 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Designed by |
| Verizon | TJL |
| | |

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ${{\mathscr OP}_{allow}}\ lb$ | % Capacity | Pass Fail |
|----------------|-----------------|-------------------|--------------------------------|---------------------|----------|-------------------------------|------------------------------|--------------|
| Т1 | 320 - 304 | Diagonal | 8x8x0.625 L1 3/4x1 3/4x3/16 | 7 | -1318.91 | 11479.60 | 11.5 | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 8 | -1318.07 | 11479.60 | 22.8 (b) 11.5 | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 9 | -1307.14 | 11479.60 | 22.8 (b) 11.4 22.4 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 10 | -1293.15 | 11479.60 | 22.4 (b) 11.3 22.4 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 11 | -1332.75 | 11479.60 | 11.6 23.1 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 12 | -1332.10 | 11479.60 | 11.6 23.1 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 13 | -1077.19 | 11479.60 | 9.4 18.5 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 14 | -1077.56 | 11479.60 | 9.4 18.5 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 15 | -1056.56 | 11479.60 | 9.2 18.0 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 16 | -1046.75 | 11479.60 | 9.1 18.0 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 17 | -1116.23 | 11479.60 | 9.7 19.2 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 18 | -1116.51 | 11479.60 | 9.7 19.2 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 19 | -852.75 | 11479.60 | 7.4 14.7 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 20 | -852.57 | 11479.60 | 7.4 14.7 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 21 | -828.17 | 11479.60 | 7.2 14.1 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 22 | -815.61 | 11479.60 | 7.1 14.1 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 23 | -901.57 | 11479.60 | 7.9 15.6 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 24 | -901.58 | 11479.60 | 7.9 15.6 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 25 | -538.76 | 11479.60 | 4.7 9.2 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 26 | -593.81 | 11479.60 | 5.2 9.9 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 27 | -543.59 | 11479.60 | 4.7 9.0 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 28 | -495.27 | 11479.60 | 4.3 8.4 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 29 | -707.27 | 11479.60 | 6.2 12.1 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 30 | -707.15 | 11479.60 | 6.2 12.1 (b) | Pass |
| T2 | 304 - 300 | Diagonal | L1 3/4x1 3/4x3/16 | 34 | -1523.17 | 11479.60 | 13.3 25.9 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 35 | -1523.25 | 11479.60 | 13.3 25.8 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 36 | -1544.03 | 11479.60 | 13.5 25.6 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 37 | -1506.94 | 11479.60 | 13.1 25.6 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 38 | -1579.71 | 11479.60 | 13.8 26.8 (b) | Pass |
| | | Diagonal | L1 3/4x1 3/4x3/16 | 39 | -1578.78 | 11479.60 | 13.8 26.8 (b) | Pass |

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| | Date |
| 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Designed by |
| Verizon | TJL |
| | |

| Section | Elevation | Component | Size | Critical | Р | øP _{allow} | % | Pass |
|---------|-----------|-----------|------------------|----------|----------|---------------------|------------------|-------|
| No. | ft | Type | | Element | lb | lb | Capacity | Fail |
| T3 | 300 - 280 | Diagonal | L2x2x1/4 | 46 | -2796.65 | 13009.80 | 21.5 30.6 (b) | Pass |
| | | Diagonal | L2x2x1/4 | 47 | -2935.07 | 13009.80 | 22.6 | Pass |
| | | Diagonal | L2x2x1/4 | 48 | -2339.39 | 13009.80 | 30.4 (b) 18.0 | Pass |
| | | Diagonal | L2X2X1/4 | 40 | -2339.39 | 15009.80 | 24.3 (b) | 1 455 |
| | | Diagonal | L2x2x1/4 | 49 | -2233.05 | 13009.80 | 17.2 24.4 (b) | Pass |
| | | Diagonal | L2x2x1/4 | 50 | -3093.64 | 13009.80 | 23.8 | Pass |
| | | Diagonal | L2x2x1/4 | 51 | -3082.89 | 13009.80 | 33.6 (b) 23.7 | Pass |
| | | 0 | | | | | 33.7 (b) | |
| | | Diagonal | L2x2x1/4 | 52 | -2265.20 | 14300.60 | 15.8 24.9 (b) | Pass |
| | | Diagonal | L2x2x1/4 | 53 | -2278.07 | 14300.60 | 15.9 | Pass |
| | | Diagonal | L2x2x1/4 | 54 | -2265.34 | 14300.60 | 24.8 (b) 15.8 | Pass |
| | | | | | | | 23.8 (b) | |
| | | Diagonal | L2x2x1/4 | 55 | -2180.97 | 14300.60 | 15.3 23.9 (b) | Pass |
| | | Diagonal | L2x2x1/4 | 56 | -2577.82 | 14300.60 | 18.0 | Pass |
| | | Diagonal | L2x2x1/4 | 57 | -2578.29 | 14300.60 | 28.1 (b) 18.0 | Pass |
| | | Diagonal | | | | 157(2.10 | 28.1 (b) | Dese |
| | | Diagonal | L2x2x1/4 | 58 | -2107.84 | 15762.10 | 13.4 23.2 (b) | Pass |
| | | Diagonal | L2x2x1/4 | 59 | -2133.85 | 15762.10 | 13.5 | Pass |
| | | Diagonal | L2x2x1/4 | 60 | -1704.38 | 15762.10 | 23.1 (b) 10.8 | Pass |
| | | Diagonal | L2x2x1/4 | 61 | -1668.31 | 15762.10 | 18.2 (b) 10.6 | Pass |
| | | | | | | | 18.3 (b) | |
| | | Diagonal | L2x2x1/4 | 62 | -2121.59 | 15762.10 | 13.5 22.9 (b) | Pass |
| | | Diagonal | L2x2x1/4 | 63 | -2086.14 | 15762.10 | 13.2 | Pass |
| | | Diagonal | L2x2x1/4 | 64 | -1981.43 | 17400.80 | 22.9 (b) 11.4 | Pass |
| | | 0 | | | | | 21.4 (b) | |
| | | Diagonal | L2x2x1/4 | 65 | -2052.85 | 17400.80 | 11.8 21.3 (b) | Pass |
| | | Diagonal | L2x2x1/4 | 66 | -1453.52 | 17400.80 | 8.4 | Pass |
| | | Diagonal | L2x2x1/4 | 67 | -1434.54 | 17400.80 | 15.2 (b) 8.2 | Pass |
| | | Diagonal | L2x2x1/4 | 68 | -2006.22 | 17400.80 | 15.2 (b) 11.5 | Pass |
| | | Diagonal | | | | | 20.4 (b) | 1 455 |
| | | Diagonal | L2x2x1/4 | 69 | -1901.22 | 17400.80 | 10.9 20.5 (b) | Pass |
| T4 | 280 - 260 | Diagonal | L2 1/2x2 1/2x1/4 | 73 | -4743.78 | 16785.10 | 28.3 | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 74 | -4792.84 | 16785.10 | 39.5 (b) 28.6 | Pass |
| | | 0 | | | | | 39.4 (b) | |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 75 | -4291.59 | 16785.10 | 25.6 34.5 (b) | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 76 | -4199.97 | 16785.10 | 25.0 | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 77 | -4697.90 | 16785.10 | 34.5 (b) 28.0 | Pass |
| | | | | | 1507 01 | 16795 10 | 38.1 (b) | Dage |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 78 | -4583.84 | 16785.10 | 27.3 38.1 (b) | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 79 | -4200.47 | 18668.80 | 22.5 | Pass |
| | | | | | | | | |

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320-ft Lattice Tower (CSP #50)

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Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

Designed by TJL

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | øP _{allow} lb | % Capacity | Pass Fail |
|----------------|-----------------|-------------------|--------------------|---------------------|-----------|---------------------------|------------------|--------------|
| | | | | | | | 34.9 (b) | _ |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 80 | -4329.69 | 18668.80 | 23.2 34.8 (b) | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 81 | -3660.45 | 18668.80 | 19.6 | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 82 | -3521.81 | 18668.80 | 29.1 (b) 18.9 | Pass |
| | | Diagonal | LZ 1/2X2 1/2X1/4 | 02 | -5521.81 | 18008.80 | 29.2 (b) | 1 455 |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 83 | -4354.00 | 18668.80 | 23.3 | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 84 | -4251.73 | 18668.80 | 35.2 (b) 22.8 | Pass |
| | | - | T 0 1 /00 1 /01 /4 | 0.5 | 2652.07 | 20825 20 | 35.3 (b) | Dese |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 85 | -3653.87 | 20825.20 | 17.5 30.4 (b) | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 86 | -3834.75 | 20825.20 | 18.4 | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 87 | -2946.99 | 20825.20 | 30.3 (b) 14.2 | Pass |
| | | | | | | | 23.3 (b) | |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 88 | -2821.79 | 20825.20 | 13.5 23.4 (b) | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 89 | -3938.46 | 20825.20 | 18.9 | Pass |
| | | Diagonal | L2 1/2x2 1/2x1/4 | 90 | -3845.22 | 20825.20 | 31.9 (b) 18.5 | Pass |
| | | - | | | | | 32.0 (b) | |
| T5 | 260 - 240 | Diagonal | L3x3x1/4 | 94 | -8474.57 | 22180.60 | 38.2 58.0 (b) | Pass |
| | | Diagonal | L3x3x1/4 | 95 | -8259.49 | 22180.60 | 37.2 | Pass |
| | | Diagonal | L3x3x1/4 | 96 | -7643.59 | 22180.60 | 58.1 (b) 34.5 | Pass |
| | | | | | | | 53.9 (b) | |
| | | Diagonal | L3x3x1/4 | 97 | -8127.94 | 22180.60 | 36.6 53.6 (b) | Pass |
| | | Diagonal | L3x3x1/4 | 98 | -6471.42 | 22180.60 | 29.2 | Pass |
| | | Diagonal | L3x3x1/4 | 99 | -6226.32 | 22180.60 | 43.7 (b) 28.1 | Pass |
| | | - | | | | | 43.8 (b) | |
| | | Diagonal | L3x3x1/4 | 100 | -6713.91 | 24277.90 | 27.7 47.0 (b) | Pass |
| | | Diagonal | L3x3x1/4 | 101 | -6687.45 | 24277.90 | 27.5 | Pass |
| | | Diagonal | L3x3x1/4 | 102 | -6264.57 | 24277.90 | 47.0 (b) 25.8 | Pass |
| | | Diagonai | LJXJX1/4 | 102 | -0204.57 | 24277.90 | 43.4 (b) | 1 455 |
| | | Diagonal | L3x3x1/4 | 103 | -6418.99 | 24277.90 | 26.4 43.3 (b) | Pass |
| | | Diagonal | L3x3x1/4 | 104 | -5998.47 | 24277.90 | 24.7 | Pass |
| | | Diagonal | L 22.1/4 | 105 | 5000 40 | 24277.00 | 40.8 (b) | Daga |
| | | Diagonal | L3x3x1/4 | 105 | -5800.48 | 24277.90 | 23.9 40.9 (b) | Pass |
| | | Diagonal | L3x3x1/4 | 106 | -5799.52 | 26649.70 | 21.8 | Pass |
| | | Diagonal | L3x3x1/4 | 107 | -5803.68 | 26649.70 | 40.8 (b) 21.8 | Pass |
| | | Diagonal | T 2-2-1/4 | 109 | 5404 09 | 26640 70 | 40.8 (b) 20.3 | Pass |
| | | Diagonal | L3x3x1/4 | 108 | -5404.08 | 26649.70 | 20.5 37.1 (b) | Pass |
| | | Diagonal | L3x3x1/4 | 109 | -5412.13 | 26649.70 | 20.3 | Pass |
| | | Diagonal | L3x3x1/4 | 110 | -5473.52 | 26649.70 | 37.1 (b) 20.5 | Pass |
| | | Diagonal | | | | 26640 70 | 37.5 (b) | D |
| | | Diagonal | L3x3x1/4 | 111 | -5328.11 | 26649.70 | 20.0 37.5 (b) | Pass |
| Т6 | 240 - 220 | Diagonal | L4x4x5/16 | 115 | -13418.30 | 50268.80 | 26.7 75.8 (b) | Pass |

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320-ft Lattice Tower (CSP #50)

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

Designed by TJL

14:04:33 03/24/22

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ${\it {\it o}P_{allow}}\ lb$ | % Capacity | Pass Fail |
|----------------|-----------------|-------------------|-----------|---------------------|-----------|------------------------------|------------------------------|--------------|
| | | Diagonal | L4x4x5/16 | 116 | -13381.80 | 50268.80 | 26.6 76.0 (b) | Pass |
| | | Diagonal | L4x4x5/16 | 117 | -13622.00 | 50268.80 | 27.1 | Pass |
| | | Diagonal | L4x4x5/16 | 118 | -13647.80 | 50268.80 | 77.3 (b) 27.1 | Pass |
| | | Diagonal | L4x4x5/16 | 119 | -11232.30 | 50268.80 | 77.2 (b) 22.3 | Pass |
| | | Diagonal | L4x4x5/16 | 120 | -11233.40 | 50268.80 | 63.6 (b) 22.3 | Pass |
| | | Diagonal | L4x4x5/16 | 121 | -12796.90 | 53365.30 | 63.6 (b) 24.0 | Pass |
| | | Diagonal | L4x4x5/16 | 122 | -12397.60 | 53365.30 | 69.6 (b) 23.2 | Pass |
| | | Diagonal | L4x4x5/16 | 123 | -12582.60 | 53365.30 | 69.7 (b) 23.6 | Pass |
| | | Diagonal | L4x4x5/16 | 124 | -12903.30 | 53365.30 | 70.7 (b) 24.2 | Pass |
| | | Diagonal | L4x4x5/16 | 125 | -10299.10 | 53365.30 | 70.6 (b) 19.3 | Pass |
| | | Diagonal | L4x4x5/16 | 126 | -10347.20 | 53365.30 | 57.7 (b) 19.4 | Pass |
| | | Diagonal | L4x4x5/16 | 127 | -10447.50 | 56723.40 | 57.7 (b) 18.4 | Pass |
| | | Diagonal | L4x4x5/16 | 128 | -9849.96 | 56723.40 | 55.3 (b) 17.4 | Pass |
| | | Diagonal | L4x4x5/16 | 129 | -9596.34 | 56723.40 | 55.5 (b) 16.9 | Pass |
| | | Diagonal | L4x4x5/16 | 130 | -10305.60 | 56723.40 | 54.0 (b) 18.2 | Pass |
| | | Diagonal | L4x4x5/16 | 131 | -7842.71 | 56723.40 | 53.9 (b) 13.8 | Pass |
| | | Diagonal | L4x4x5/16 | 132 | -7691.40 | 56723.40 | 41.9 (b) 13.6 | Pass |
| T7 | 220 - 200 | Diagonal | L4x4x3/8 | 136 | -17354.10 | 40783.20 | 41.9 (b) 42.6 | Pass |
| | | Diagonal | L4x4x3/8 | 137 | -16637.40 | 40783.20 | 78.0 (b) 40.8 | Pass |
| | | Diagonal | L4x4x3/8 | 138 | -16967.20 | 40783.20 | 78.2 (b) 41.6 | Pass |
| | | Diagonal | L4x4x3/8 | 139 | -17543.50 | 40783.20 | 79.7 (b) 43.0 | Pass |
| | | Diagonal | L4x4x3/8 | 140 | -13546.40 | 40783.20 | 79.6 (b) 33.2 | Pass |
| | | Diagonal | L4x4x3/8 | 141 | -13738.00 | 40783.20 | 63.4 (b) 33.7 | Pass |
| | | Diagonal | L4x4x3/8 | 142 | -15959.60 | 44725.40 | 63.4 (b) 35.7 73.4 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 143 | -15659.70 | 44725.40 | 35.0 73.6 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 144 | -15956.10 | 44725.40 | 35.7 75.0 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 145 | -16129.30 | 44725.40 | 75.0 (b) 36.1 74.8 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 146 | -12946.70 | 44725.40 | 28.9 60.7 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 147 | -12947.90 | 44725.40 | 28.9 60.6 (b) | Pass |
| Т8 | 200 - 180 | Diagonal | L4x4x3/8 | 151 | -21292.10 | 33828.90 | 62.9 84.0 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 152 | -20936.70 | 33828.90 | 84.0 (b) 61.9 | Pass |

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320-ft Lattice Tower (CSP #50)

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Date 14:04:33 03/24/22

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

Designed by TJL

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | øP _{allow} lb | % Capacity | Pass Fail |
|----------------|-----------------|----------------------|----------------------|---------------------|------------------------|---------------------------|------------------------------|--------------|
| | | Diagonal | L4x4x3/8 | 153 | -21080.20 | 33828.90 | 84.2 (b) 62.3 | Pass |
| | | Diagonal | L4x4x3/8 | 154 | -21374.30 | 33828.90 | 84.8 (b) 63.2 | Pass |
| | | Diagonal | L4x4x3/8 | 155 | -16815.90 | 33828.90 | 84.6 (b) 49.7 | Pass |
| | | Diagonal | L4x4x3/8 | 156 | -16814.50 | 33828.90 | 67.4 (b) 49.7 67.4 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 157 | -20463.20 | 37111.10 | 55.1 78.6 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 158 | -19695.50 | 37111.10 | 53.1 78.8 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 159 | -20043.10 | 37111.10 | 54.0 80.2 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 160 | -20662.40 | 37111.10 | 55.7 80.0 (b) | Pass |
| | | Diagonal Diagonal | L4x4x3/8 L4x4x3/8 | 161 162 | -15825.80 -15933.90 | 37111.10 37111.10 | 42.6 63.1 (b) 42.9 | Pass Pass |
| Т9 | 180 - 170 | Diagonal | L4x4x3/8 | 162 | -22988.70 | 30962.40 | 63.1 (b) 74.2 | Pass |
| | | Diagonal | L4x4x3/8 | 167 | -22593.50 | 30962.40 | 90.7 (b) 73.0 | Pass |
| | | Diagonal | L4x4x3/8 | 168 | -22354.10 | 30962.40 | 90.9 (b) 72.2 | Pass |
| | | Diagonal | L4x4x3/8 | 169 | -22855.90 | 30962.40 | 90.0 (b) 73.8 89.7 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 170 | -18036.40 | 30962.40 | 58.3 72.3 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 171 | -18029.70 | 30962.40 | 58.2 72.4 (b) | Pass |
| T10 | 170 - 160 | Diagonal | L4x4x3/8 | 175 | -23844.30 | 28413.70 | 83.9 93.5 (b) | Pass |
| | | Diagonal | L4x4x3/8 | 176 | -23430.40 | 28413.70 | 82.5 93.8 (b) | Pass |
| | | Diagonal Diagonal | L4x4x3/8 L4x4x3/8 | 177 178 | -23039.20 -23625.40 | 28413.70 28413.70 | 81.1 92.2 (b) 83.1 | Pass Pass |
| | | Diagonal | L4x4x3/8 | 178 | -18638.90 | 28413.70 | 92.0 (b) 65.6 | Pass |
| | | Diagonal | L4x4x3/8 | 180 | -18630.30 | 28413.70 | 74.2 (b) 65.6 | Pass |
| T11 | 160 - 140 | Diagonal | L5x5x1/2 | 184 | -29186.20 | 63217.20 | 74.3 (b) 46.2 | Pass |
| | | Diagonal | L5x5x1/2 | 185 | -28622.40 | 63217.20 | 86.3 (b) 45.3 | Pass |
| | | Diagonal | L5x5x1/2 | 186 | -27051.80 | 63217.20 | 85.5 (b) 42.8 80.9 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 187 | -28308.10 | 63217.20 | 44.8 83.7 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 188 | -23760.30 | 63217.20 | 37.6 70.2 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 189 | -23147.00 | 63217.20 | 36.6 69.0 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 190 | -27021.50 | 68040.50 | 39.7 81.0 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 191 | -26914.40 | 68040.50 | 39.6 81.1 (b) | Pass |

tnxTower

Project

Client

21007.82 - Colchester

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Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

| Verizon | |
|---------|--|

320-ft Lattice Tower (CSP #50)

Designed by TJL

14:04:33 03/24/22

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ${\it {\it o}P_{allow}}\ lb$ | % Capacity | Pass Fail |
|----------------|-----------------|-------------------|------------|---------------------|-----------|------------------------------|------------------|--------------|
| | | Diagonal | L5x5x1/2 | 192 | -25920.30 | 68040.50 | 38.1 78.2 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 193 | -26462.70 | 68040.50 | 38.9 78.2 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 194 | -21588.20 | 68040.50 | 31.7 64.8 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 195 | -21562.30 | 68040.50 | 31.7 64.9 (b) | Pass |
| T12 | 140 - 120 | Diagonal | L5x5x1/2 | 199 | -30934.70 | 53762.80 | 57.5 91.5 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 200 | -30206.20 | 53762.80 | 56.2 90.6 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 201 | -28024.90 | 53762.80 | 52.1 84.2 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 202 | -29708.50 | 53762.80 | 55.3 87.8 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 203 | -25007.90 | 53762.80 | 46.5 73.9 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 204 | -23970.50 | 53762.80 | 44.6 71.9 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 205 | -28425.40 | 58159.10 | 48.9 85.6 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 206 | -28396.50 | 58159.10 | 48.8 85.6 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 207 | -26366.20 | 58159.10 | 45.3 81.3 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 208 | -26813.10 | 58159.10 | 46.1 79.4 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 209 | -22598.20 | 58159.10 | 38.9 67.9 (b) | Pass |
| | | Diagonal | L5x5x1/2 | 210 | -22541.50 | 58159.10 | 38.8 68.1 (b) | Pass |
| T13 | 120 - 100 | Diagonal | ROHN 3 XXS | 215 | -50810.40 | 63081.40 | 80.5 | Pass |
| | | Diagonal | ROHN 3 XXS | 218 | -49731.70 | 63081.40 | 78.8 | Pass |
| | | Diagonal | ROHN 3 XXS | 222 | -47710.40 | 63081.40 | 75.6 | Pass |
| | | Diagonal | ROHN 3 XXS | 225 | -49732.90 | 63081.40 | 78.8 | Pass |
| | | Diagonal | ROHN 3 XXS | 231 | -41617.90 | 63081.40 | 66.0 | Pass |
| | | Diagonal | ROHN 3 XXS | 234 | -40707.30 | 63081.40 | 64.5 | Pass |
| T14 | 100 - 80 | Diagonal | ROHN 3 XXS | 248 | -53229.80 | 59442.80 | 89.5 | Pass |
| | | Diagonal | ROHN 3 XXS | 251 | -51505.90 | 59442.80 | 86.6 | Pass |
| | | Diagonal | ROHN 3 XXS | 255 | -50737.10 | 59442.80 | 85.4 | Pass |
| | | Diagonal | ROHN 3 XXS | 258 | -52683.50 | 59442.80 | 88.6 | Pass |
| | | Diagonal | ROHN 3 XXS | 264 | -43898.40 | 59442.80 | 73.8 | Pass |
| | | Diagonal | ROHN 3 XXS | 267 | -43251.70 | 59442.80 | 72.8 | Pass |
| T15 | 80 - 60 | Diagonal | ROHN 3 XXS | 281 | -53169.30 | 55698.10 | 95.5 | Pass |
| | | Diagonal | ROHN 3 XXS | 284 | -50932.70 | 55698.10 | 91.4 | Pass |
| | | Diagonal | ROHN 3 XXS | 288 | -49999.80 | 55698.10 | 89.8 | Pass |
| | | Diagonal | ROHN 3 XXS | 291 | -52497.00 | 55698.10 | 94.3 | Pass |
| | | Diagonal | ROHN 3 XXS | 297 | -43103.20 | 55698.10 | 77.4 | Pass |
| | | Diagonal | ROHN 3 XXS | 300 | -42329.10 | 55698.10 | 76.0 | Pass |
| T16 | 60 - 30 | Diagonal | ROHN 4 EH | 314 | -75058.90 | 101988.00 | 73.6 74.0 (b) | Pass |
| | | Diagonal | ROHN 4 EH | 319 | -71344.50 | 101988.00 | 70.0 70.3 (b) | Pass |
| | | Diagonal | ROHN 4 EH | 325 | -70410.10 | 101988.00 | 69.0 69.4 (b) | Pass |
| | | Diagonal | ROHN 4 EH | 330 | -74250.90 | 101988.00 | 72.8 73.2 (b) | Pass |
| | | Diagonal | ROHN 4 EH | 340 | -61616.10 | 101988.00 | 60.4 60.7 (b) | Pass |
| | | Diagonal | ROHN 4 EH | 345 | -60713.90 | 101988.00 | 59.5 | Pass |

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| | | 21007.82 - Colchester | 91 of 96 |
| nc. | Project | | Date |
| <i>.</i> | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | | Designed by |
| | | Verizon | TJL |

| Section | Elevation | Component | Size | Critical | Р | | % | Pass |
|---------|-----------|--------------------------|--------------------------|------------|------------------------|------------------------|--------------|--------------|
| No. | ft | Type | | Element | lb | lb | Capacity | Fail |
| | | | | | | | 59.8 (b) | |
| T17 | 30 - 0 | Diagonal | ROHN 4 EH | 365 | -74010.70 | 97939.00 | 75.6 | Pass |
| | | Diagonal | ROHN 4 EH | 370 | -71980.40 | 97939.00 | 73.5 | Pass |
| | | Diagonal | ROHN 4 EH | 376 | -69434.10 | 97939.00 | 70.9 | Pass |
| | | Diagonal | ROHN 4 EH | 381 | -72899.60 | 97939.00 | 74.4 | Pass |
| | | Diagonal | ROHN 4 EH | 391 | -57740.90 | 97939.00 | 59.0 | Pass |
| | | Diagonal | ROHN 4 EH | 396 | -56722.90 | 97939.00 | 57.9 | Pass |
| T13 | 120 - 100 | Horizontal | ROHN 3 STD | 214 | -27071.50 | 31679.40 | 85.5 | Pass |
| | | Horizontal | ROHN 3 STD | 221 | -26155.70 | 31679.40 | 82.6 | Pass |
| - | | Horizontal | ROHN 3 STD | 230 | -21437.30 | 31679.40 | 67.7 | Pass |
| T14 | 100 - 80 | Horizontal | ROHN 3 EH | 247 | -30472.20 | 33455.50 | 91.1 | Pass |
| | | Horizontal | ROHN 3 EH | 254 | -30135.30 | 33455.50 | 90.1 | Pass |
| T15 | 80 - 60 | Horizontal | ROHN 3 EH | 263 | -24583.70 | 33455.50 | 73.5 | Pass |
| 115 | 80 - 60 | Horizontal Horizontal | ROHN 3 XXS ROHN 3 XXS | 280 287 | -31434.30 -30934.20 | $43484.00 \\ 43484.00$ | 72.3 71.1 | Pass Pass |
| | | Horizontal | ROHN 3 XXS | 287 | -24624.90 | 43484.00 | 56.6 | Pass |
| T16 | 60 - 30 | Horizontal | ROHN 3.5 EH | 313 | -35100.20 | 38300.30 | 91.6 | Pass |
| 110 | 00-50 | Horizontal | ROHN 3.5 EH | 324 | -34512.40 | 38300.30 | 90.1 | Pass |
| | | Horizontal | ROHN 3.5 EH | 339 | -27337.30 | 38300.30 | 71.4 | Pass |
| T17 | 30 - 0 | Horizontal | ROHN 4 EH | 364 | -41666.80 | 47220.90 | 88.2 | Pass |
| 117 | 50 0 | Horizontal | ROHN 4 EH | 375 | -40931.30 | 47220.90 | 86.7 | Pass |
| | | Horizontal | ROHN 4 EH | 390 | -32052.40 | 47220.90 | 67.9 | Pass |
| T1 | 320 - 304 | Top Girt | L1 3/4x1 3/4x3/16 | 4 | -193.61 | 5333.23 | 3.6 | Pass |
| | | Top Girt | L1 3/4x1 3/4x3/16 | 5 | -193.77 | 5333.23 | 3.6 | Pass |
| | | Top Girt | L1 3/4x1 3/4x3/16 | 6 | -193.10 | 5333.23 | 3.6 | Pass |
| T3 | 300 - 280 | Top Girt | L2x2x1/4 | 43 | -462.77 | 9943.51 | 4.7 | Pass |
| | | Top Girt | L2x2x1/4 | 44 | -466.41 | 9943.51 | 4.7 | Pass |
| | | Top Girt | L2x2x1/4 | 45 | -471.34 | 9943.51 | 4.7 | Pass |
| T13 | 120 - 100 | Redund Horz 1 Bracing | ROHN 1.5 STD | 216 | -9036.76 | 14083.10 | 64.2 | Pass |
| | | Redund Horz 1 Bracing | ROHN 1.5 STD | 219 | -9045.93 | 14083.10 | 64.2 | Pass |
| | | Redund Horz 1 Bracing | ROHN 1.5 STD | 223 | -9045.93 | 14083.10 | 64.2 | Pass |
| | | Redund Horz 1 Bracing | ROHN 1.5 STD | 226 | -9015.44 | 14083.10 | 64.0 | Pass |
| | | Redund Horz 1 Bracing | ROHN 1.5 STD | 232 | -9015.44 | 14083.10 | 64.0 | Pass |
| | | Redund Horz 1 Bracing | ROHN 1.5 STD | 235 | -9036.76 | 14083.10 | 64.2 | Pass |
| T14 | 100 - 80 | Redund Horz 1 Bracing | P1.5x.145 | 249 | -10252.00 | 11432.70 | 89.7 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 252 | -10264.50 | 11432.70 | 89.8 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 256 | -10264.50 | 11432.70 | 89.8 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 259 | -10229.10 | 11432.70 | 89.5 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 265 | -10229.10 | 11432.70 | 89.5 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 268 | -10252.00 | 11432.70 | 89.7 | Pass |
| T15 | 80 - 60 | Redund Horz 1 Bracing | ROHN 2 STD | 282 | -11493.80 | 20598.10 | 55.8 | Pass |
| | | Redund Horz 1 Bracing | ROHN 2 STD | 285 | -11510.40 | 20598.10 | 55.9 | Pass |
| | | Redund Horz 1 Bracing | ROHN 2 STD | 289 | -11510.40 | 20598.10 | 55.9 | Pass |
| | | Redund Horz 1 Bracing | ROHN 2 STD | 292 | -11470.30 | 20598.10 | 55.7 | Pass |
| | | Redund Horz 1 | ROHN 2 STD | 298 | -11470.30 | 20598.10 | 55.7 | Pass |

tnxTower

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Job 92 of 96 21007.82 - Colchester Project Date 320-ft Lattice Tower (CSP #50) 14:04:33 03/24/22 Client

Verizon

Designed by TJL

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ${}^{ 	heta P_{allow}}_{lb}$ | % Capacity | Pass Fail |
|----------------|-----------------|-------------------------------------|--------------|---------------------|-----------|------------------------------|---------------|--------------|
| | | Bracing Redund Horz 1 | ROHN 2 STD | 301 | -11493.80 | 20598.10 | 55.8 | Pass |
| T16 | 60 - 30 | Bracing Redund Horz 1 | ROHN 1.5 STD | 315 | -12737.70 | 18282.30 | 69.7 | Pass |
| | | Bracing Redund Horz 1 | ROHN 1.5 STD | 320 | -12755.90 | 18282.30 | 69.8 | Pass |
| | | Bracing Redund Horz 1 | ROHN 1.5 STD | 326 | -12755.90 | 18282.30 | 69.8 | Pass |
| | | Bracing Redund Horz 1 Bracing | ROHN 1.5 STD | 331 | -12714.50 | 18282.30 | 69.5 | Pass |
| | | Redund Horz 1 Bracing | ROHN 1.5 STD | 341 | -12714.50 | 18282.30 | 69.5 | Pass |
| | | Redund Horz 1 Bracing | ROHN 1.5 STD | 346 | -12737.70 | 18282.30 | 69.7 | Pass |
| T 17 | 30 - 0 | Redund Horz 1 Bracing | P1.5x.145 | 366 | -14603.80 | 15339.00 | 95.2 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 371 | -14627.20 | 15339.00 | 95.4 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 377 | -14627.20 | 15339.00 | 95.4 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 382 | -14579.30 | 15339.00 | 95.0 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 392 | -14579.30 | 15339.00 | 95.0 | Pass |
| | | Redund Horz 1 Bracing | P1.5x.145 | 397 | -14603.80 | 15339.00 | 95.2 | Pass |
| T16 | 60 - 30 | Redund Horz 2 Bracing | ROHN 2 XXS | 316 | -12737.70 | 18604.80 | 68.5 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2 XXS | 321 | -12755.90 | 18604.80 | 68.6 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2 XXS | 327 | -12755.90 | 18604.80 | 68.6 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2 XXS | 332 | -12714.50 | 18604.80 | 68.3 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2 XXS | 342 | -12714.50 | 18604.80 | 68.3 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2 XXS | 347 | -12737.70 | 18604.80 | 68.5 | Pass |
| Т17 | 30 - 0 | Redund Horz 2 Bracing | ROHN 2.5 EH | 367 | -14603.80 | 21919.90 | 66.6 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2.5 EH | 372 | -14627.20 | 21919.90 | 66.7 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2.5 EH | 378 | -14627.20 | 21919.90 | 66.7 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2.5 EH | 383 | -14579.30 | 21919.90 | 66.5 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2.5 EH | 393 | -14579.30 | 21919.90 | 66.5 | Pass |
| | | Redund Horz 2 Bracing | ROHN 2.5 EH | 398 | -14603.80 | 21919.90 | 66.6 | Pass |
| Т13 | 120 - 100 | Redund Diag 1 Bracing | ROHN 2 STD | 217 | -8198.71 | 9352.65 | 87.7 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 STD | 220 | -8207.03 | 9352.65 | 87.8 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 STD | 224 | -8207.03 | 9352.65 | 87.8 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 STD | 227 | -8179.37 | 9352.65 | 87.5 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 STD | 233 | -8179.37 | 9352.65 | 87.5 | Pass |

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| Verizon | |
|---------|--|

320-ft Lattice Tower (CSP #50)

14:04:33 03/24/22 Designed by TJL

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| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ${}^{ 	heta P_{allow}}_{lb}$ | % Capacity | Pass Fail |
|----------------|-----------------|-------------------------------------|--------------|---------------------|-----------|------------------------------|---------------|--------------|
| | | Redund Diag 1 | ROHN 2 STD | 236 | -8198.71 | 9352.65 | 87.7 | Pass |
| T14 | 100 - 80 | Bracing Redund Diag 1 | ROHN 2 EH | 250 | -8694.71 | 11364.10 | 76.5 | Pass |
| | | Bracing Redund Diag 1 | ROHN 2 EH | 253 | -8705.29 | 11364.10 | 76.6 | Pass |
| | | Bracing Redund Diag 1 | ROHN 2 EH | 257 | -8705.29 | 11364.10 | 76.6 | Pass |
| | | Bracing Redund Diag 1 Bracing | ROHN 2 EH | 260 | -8675.32 | 11364.10 | 76.3 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 266 | -8675.32 | 11364.10 | 76.3 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 269 | -8694.71 | 11364.10 | 76.5 | Pass |
| T15 | 80 - 60 | Redund Diag 1 Bracing | ROHN 2 EH | 283 | -9192.05 | 10825.00 | 84.9 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 286 | -9205.33 | 10825.00 | 85.0 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 290 | -9205.33 | 10825.00 | 85.0 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 293 | -9173.25 | 10825.00 | 84.7 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 299 | -9173.25 | 10825.00 | 84.7 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 302 | -9192.05 | 10825.00 | 84.9 | Pass |
| T16 | 60 - 30 | Redund Diag 1 Bracing | ROHN 2 EH | 317 | -12853.90 | 13862.10 | 92.7 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 322 | -12872.20 | 13862.10 | 92.9 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 328 | -12872.20 | 13862.10 | 92.9 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 333 | -12830.50 | 13862.10 | 92.6 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 343 | -12830.50 | 13862.10 | 92.6 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2 EH | 348 | -12853.90 | 13862.10 | 92.7 | Pass |
| T17 | 30 - 0 | Redund Diag 1 Bracing | ROHN 2.5 STD | 368 | -13585.80 | 22579.60 | 60.2 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2.5 STD | 373 | -13607.60 | 22579.60 | 60.3 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2.5 STD | 379 | -13607.60 | 22579.60 | 60.3 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2.5 STD | 384 | -13563.10 | 22579.60 | 60.1 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2.5 STD | 394 | -13563.10 | 22579.60 | 60.1 | Pass |
| | | Redund Diag 1 Bracing | ROHN 2.5 STD | 399 | -13585.80 | 22579.60 | 60.2 | Pass |
| T16 | 60 - 30 | Redund Diag 2 Bracing | ROHN 2.5 STD | 318 | -8335.90 | 12742.30 | 65.4 | Pass |
| | | Redund Diag 2 Bracing | ROHN 2.5 STD | 323 | -8347.79 | 12742.30 | 65.5 | Pass |
| | | Redund Diag 2 Bracing | ROHN 2.5 STD | 329 | -8347.79 | 12742.30 | 65.5 | Pass |
| | | Redund Diag 2 Bracing | ROHN 2.5 STD | 334 | -8320.73 | 12742.30 | 65.3 | Pass |
| | | Redund Diag 2 Bracing | ROHN 2.5 STD | 344 | -8320.73 | 12742.30 | 65.3 | Pass |
| | | Redund Diag 2 | ROHN 2.5 STD | 349 | -8335.90 | 12742.30 | 65.4 | Pass |

tnxTower

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| | | 21007.82 - Colchester | 94 of 96 |
| | Project | | Date |
| • | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| | Client | | Designed by |
| | | Verizon | TJL |

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ${\it 	extsf{@P_{allow}}\ lb}$ | % Capacity | Pass Fail |
|----------------|-----------------|-------------------------------------|--------------|---------------------|----------|--------------------------------|---------------|--------------|
| T17 | 30 - 0 | Bracing Redund Diag 2 | ROHN 2.5 STD | 369 | -9127.65 | 11206.60 | 81.4 | Pass |
| | | Bracing Redund Diag 2 | ROHN 2.5 STD | 374 | -9142.26 | 11206.60 | 81.6 | Pass |
| | | Bracing Redund Diag 2 | ROHN 2.5 STD | 380 | -9142.26 | 11206.60 | 81.6 | Pass |
| | | Bracing Redund Diag 2 Bracing | ROHN 2.5 STD | 385 | -9112.37 | 11206.60 | 81.3 | Pass |
| | | Redund Diag 2 Bracing | ROHN 2.5 STD | 395 | -9112.37 | 11206.60 | 81.3 | Pass |
| | | Redund Diag 2 Bracing | ROHN 2.5 STD | 400 | -9127.65 | 11206.60 | 81.4 | Pass |
| T13 | 120 - 100 | Redund Hip 1 Bracing | ROHN 1.5 STD | 228 | -48.77 | 12066.60 | 0.4 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 237 | -40.90 | 12066.60 | 0.3 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 239 | -49.16 | 12066.60 | 0.4 | Pass |
| T14 | 100 - 80 | Redund Hip 1 Bracing | ROHN 1.5 STD | 261 | -48.04 | 9943.20 | 0.5 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 270 | -41.57 | 9943.20 | 0.4 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 272 | -48.03 | 9943.20 | 0.5 | Pass |
| T15 | 80 - 60 | Redund Hip 1 Bracing | ROHN 1.5 STD | 294 | -47.05 | 8378.50 | 0.6 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 303 | -39.88 | 8378.50 | 0.5 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 305 | -46.65 | 8378.50 | 0.6 | Pass |
| T16 | 60 - 30 | Redund Hip 1 Bracing | ROHN 1.5 STD | 335 | -171.64 | 15708.50 | 1.1 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 350 | -144.44 | 15708.50 | 0.9 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 354 | -176.09 | 15708.50 | 1.1 | Pass |
| T17 | 30 - 0 | Redund Hip 1 Bracing | ROHN 1.5 STD | 386 | -152.90 | 12924.00 | 1.2 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 401 | -125.74 | 12924.00 | 1.0 | Pass |
| | | Redund Hip 1 Bracing | ROHN 1.5 STD | 405 | -157.59 | 12924.00 | 1.2 | Pass |
| T16 | 60 - 30 | Redund Hip 2 Bracing | ROHN 2 STD | 336 | -93.30 | 8559.02 | 1.1 | Pass |
| | | Redund Hip 2 Bracing | ROHN 2 STD | 351 | -78.65 | 8559.02 | 0.9 | Pass |
| | | Redund Hip 2 Bracing | ROHN 2 STD | 355 | -95.53 | 8559.02 | 1.1 | Pass |
| T17 | 30 - 0 | Redund Hip 2 Bracing | ROHN 2 STD | 387 | -87.54 | 6941.18 | 1.3 | Pass |
| | | Redund Hip 2 Bracing | ROHN 2 STD | 402 | -73.06 | 6941.18 | 1.1 | Pass |
| | | Redund Hip 2 Bracing | ROHN 2 STD | 406 | -89.80 | 6941.18 | 1.3 | Pass |
| T13 | 120 - 100 | Redund Hip Diagonal 1 Bracing | ROHN 2.5 STD | 229 | -96.91 | 10450.60 | 0.9 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 2.5 STD | 238 | -80.69 | 10450.60 | 0.8 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 2.5 STD | 240 | -96.85 | 10450.60 | 0.9 | Pass |

tnxTow

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

| ver | Job | | Page |
|----------------------------|---------|--------------------------------|--------------------|
| | | 21007.82 - Colchester | 95 of 96 |
| ring Inc. | Project | | Date |
| ford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| 06405 88-0580 8-8587 | Client | Verizon | Designed by TJL |

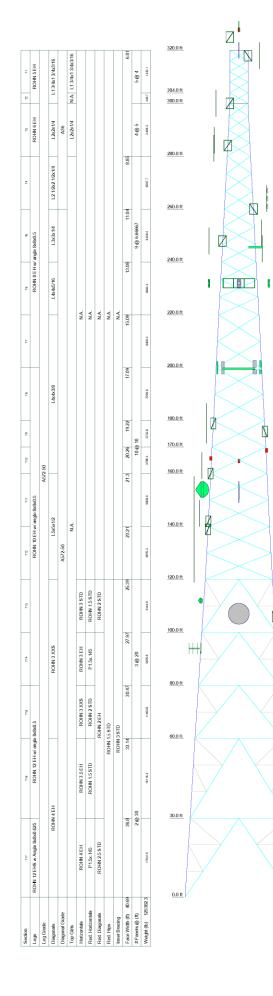
| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | ${}^{ 	heta P_{allow}}_{lb}$ | % Capacity | Pass Fail |
|----------------|-----------------|---|--------------|---------------------|---------|------------------------------|---------------|--------------|
| T14 | 100 - 80 | Redund Hip Diagonal | ROHN 2.5 STD | 262 | -90.97 | 9375.46 | 1.0 | Pass |
| | | 1 Bracing Redund Hip Diagonal 1 Bracing | ROHN 2.5 STD | 271 | -79.57 | 9375.46 | 0.8 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 2.5 STD | 273 | -88.26 | 9375.46 | 0.9 | Pass |
| T15 | 80 - 60 | Redund Hip Diagonal 1 Bracing | ROHN 3 STD | 295 | -102.06 | 16617.70 | 0.6 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 3 STD | 304 | -95.74 | 16617.70 | 0.6 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 3 STD | 306 | -102.10 | 16617.70 | 0.6 | Pass |
| T16 | 60 - 30 | Redund Hip Diagonal 1 Bracing | ROHN 2 STD | 337 | -348.52 | 5254.92 | 6.6 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 2 STD | 352 | -279.76 | 5254.92 | 5.3 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 2 STD | 356 | -361.06 | 5254.92 | 6.9 | Pass |
| T17 | 30 - 0 | Redund Hip Diagonal 1 Bracing | ROHN 2.5 STD | 388 | -315.01 | 10840.00 | 2.9 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 2.5 STD | 403 | -249.83 | 10840.00 | 2.3 | Pass |
| | | Redund Hip Diagonal 1 Bracing | ROHN 2.5 STD | 407 | -327.60 | 10840.00 | 3.0 | Pass |
| T16 | 60 - 30 | Redund Hip Diagonal 2 Bracing | ROHN 2 STD | 338 | -141.66 | 3255.91 | 4.4 | Pass |
| | | Redund Hip Diagonal 2 Bracing | ROHN 2 STD | 353 | -141.17 | 3255.91 | 4.3 | Pass |
| | | Redund Hip Diagonal 2 Bracing | ROHN 2 STD | 357 | -143.06 | 3255.91 | 4.4 | Pass |
| T17 | 30 - 0 | Redund Hip Diagonal 2 Bracing | ROHN 2.5 STD | 389 | -139.42 | 6453.40 | 2.2 | Pass |
| | | Redund Hip Diagonal 2 Bracing | ROHN 2.5 STD | 404 | -139.18 | 6453.40 | 2.2 | Pass |
| | | Redund Hip Diagonal 2 Bracing | ROHN 2.5 STD | 408 | -140.45 | 6453.40 | 2.2 | Pass |
| T13 | 120 - 100 | Inner Bracing | ROHN 3 STD | 241 | -27.73 | 29370.40 | 0.4 | Pass |
| | | Inner Bracing | ROHN 3 STD | 242 | -23.50 | 29370.40 | 0.4 | Pass |
| | | Inner Bracing | ROHN 3 STD | 243 | -27.36 | 29370.40 | 0.4 | Pass |
| T14 | 100 - 80 | Inner Bracing | ROHN 3 STD | 274 | -27.51 | 24201.90 | 0.4 | Pass |
| | | Inner Bracing | ROHN 3 STD | 275 | -23.85 | 24201.90 | 0.4 | Pass |
| | | Inner Bracing | ROHN 3 STD | 276 | -26.44 | 24201.90 | 0.4 | Pass |
| T15 | 80 - 60 | Inner Bracing | ROHN 3 STD | 307 | -31.22 | 20393.40 | 0.4 | Pass |
| | | Inner Bracing | ROHN 3 STD | 308 | -28.68 | 20393.40 | 0.4 | Pass |
| | | Inner Bracing | ROHN 3 STD | 309 | -29.93 | 20393.40 | 0.4 | Pass |
| T16 | 60 - 30 | Inner Bracing | ROHN 3 STD | 358 | -59.88 | 17239.70 | 0.5 | Pass |
| | | Inner Bracing | ROHN 3 STD | 359 | -59.50 | 17239.70 | 0.5 | Pass |
| | | Inner Bracing | ROHN 3 STD | 360 | -60.21 | 17239.70 | 0.5 | Pass |
| T17 | 30 - 0 | Inner Bracing | ROHN 3 STD | 409 | -62.36 | 13981.00 | 0.5 | Pass |
| | | Inner Bracing | ROHN 3 STD | 410 | -62.04 | 13981.00 | 0.5 | Pass |
| | | Inner Bracing | ROHN 3 STD | 411 | -62.57 | 13981.00 | 0.6 | Pass |
| | | | | | | | Summary | |
| | | | | | | Leg (T16) | 65.1 | Pass |
| | | | | | | Diagonal | 95.5 | Pass |
| | | | | | | (T15) | | |

| LUS(IIU) | 05.1 | 1 433 |
|------------|------|-------|
| Diagonal | 95.5 | Pass |
| (T15) | | |
| Horizontal | 91.6 | Pass |
| (T16) | | |
| Top Girt | 4.7 | Pass |
| (T3) | | |
| Redund | 95.4 | Pass |
| Horz 1 | | |
| | | |

| tran Torn on | Job | | Page |
|--|---------|--------------------------------|-------------------|
| tnxTower | | 21007.82 - Colchester | 96 of 96 |
| Centek Engineering Inc. | Project | | Date |
| 63-2 North Branford Rd. | | 320-ft Lattice Tower (CSP #50) | 14:04:33 03/24/22 |
| Branford, CT 06405 | Client | Marinan | Designed by |
| Phone: (203) 488-0580 FAX: (203) 488-8587 | | Verizon | TJL |

| Section | Elevation | Component | Size | Critical | Р | | % | Pass |
|---------|-----------|-----------|------|----------|----|-------------|----------|------|
| No. | ft | Type | | Element | lb | lb | Capacity | Fail |
| | | | | | | Bracing | | |
| | | | | | | (T17) | | |
| | | | | | | Redund | 68.6 | Pass |
| | | | | | | Horz 2 | | |
| | | | | | | Bracing | | |
| | | | | | | (T16) | | |
| | | | | | | Redund | 92.9 | Pass |
| | | | | | | Diag 1 | | |
| | | | | | | Bracing | | |
| | | | | | | (T16) | | |
| | | | | | | Redund | 81.6 | Pass |
| | | | | | | Diag 2 | | |
| | | | | | | Bracing | | |
| | | | | | | (T17) | | |
| | | | | | | Redund Hip | 1.2 | Pas |
| | | | | | | 1 Bracing | | |
| | | | | | | (T17) | | |
| | | | | | | Redund Hip | 1.3 | Pas |
| | | | | | | 2 Bracing | | |
| | | | | | | (T17) | | |
| | | | | | | Redund Hip | 6.9 | Pas |
| | | | | | | Diagonal 1 | | |
| | | | | | | Bracing | | |
| | | | | | | (T16) | | |
| | | | | | | Redund Hip | 4.4 | Pas |
| | | | | | | Diagonal 2 | | |
| | | | | | | Bracing | | |
| | | | | | | (T16) | | |
| | | | | | | Inner | 0.6 | Pas |
| | | | | | | Bracing | | |
| | | | | | | (T17) | | |
| | | | | | | Bolt Checks | 93.8 | Pass |
| | | | | | | RATING = | 95.5 | Pas |

Program Version 8.1.1.0 - 6/3/2021 File:J:/Jobs/2100700.WI/82_Colchester CT/05_Structural/Backup Documentation/Tnxtower/Modification 20200515_VZW-EMP_wCSP Update.eri



| TYPE | ELEVATION | TYPE | ELEVATION |
|---|-----------|---|-----------|
| Lightning Rod 5/8x4" (Lightning Rod) | 329 | CBC78T-DS-43-2X Diplexer (Verizon) | 232 |
| Dual Lights (Beacon) | 327 | CBC78T-DS-43-2X Diplexer (Verizon) | 232 |
| PD128-1 (ECI-1) | 325 | PIROD 12 Lightweight T-Frame (ATI) | 200 |
| 6' Side Mount Standoff (ECI-1) | 325 | PiROD 12' Lightweight T-Frame (ATT) | 200 |
| BA1012-0 (ECI-2) | 320 | PiROD 12 Lightweight T-Frame (ATT) | 200 |
| 6' Side Mount Standoff (ECI-2) | 320 | 7770.00 (ATI) | 200 |
| ANT 450F6 (ECI-3) | 318 | HPA-65R-BUU-H8 Panel (ATT) | 200 |
| 4%4" Pipe Mount (ECI-3) | 318 | RRUS-32 (ATI) | 200 |
| SC479-HF1LDF (ECI-4) | 300 | RRUS-11 (ATI) | 200 |
| 6' Side Mount Standoff (ECI-4) | 300 | 7770.00 (ATI) | 200 |
| PD340-1 (ECI-5) | 290 | HPA-65R-BUU-H8 Panel (ATT) | 200 |
| 6' Side Mount Standoff (ECI-5) | 290 | RRUS-32 (ATI) | 200 |
| DB809T3E-XC (ECI-6) | 286 | RRUS-11 (ATI) | 200 |
| 6' Side Mount Standoff (ECI-7) | 284 | 7770.00 (ATI) | 200 |
| SC479-HF1LDF(D00I-E6085) (Inverted) (ECI-7) | 283 | HPA-65R-BUU-H6 Panel (ATT) | 200 |
| | 264 | RRUS-32 (ATI) | 200 |
| 6' Side Mount Standoff (ECI-8) | 260 | RRUS-11 (ATI) | 200 |
| SC479-HF1LDF (ECI-10) | 251 | DC6-48-60-0-8C Squid / Surge Arrestor (ATI) | 200 |
| PD1142-1 (ECI-14) | 248 | STK-U Stiffener Side Arm Attachment (ATI) | 200 |
| 6' Side Mount Standoff (ECI-14) | 248 | STK-U Stiffener Side Arm Attachment (ATI) | 200 |
| 430-94C-09168-M-11048 TTA (ECI-11) | 247 | STK-U Stiffener Side Arm Attachment (ATT) | 200 |
| Sabre T-Boom (1) (ECI-10,11,12,13) | 246 | STK-U Stiffener Side Arm Attachment (ATI) | 200 |
| SC479-HF1LDF(D00I-E6085) (Inverted) (ECI-13) | 245 | STK-U Stiffener Side Arm Attachment (AT1) | 200 |
| SC479-HF1LDF(D00I-E6085) (Inverted) (ECI-12) | 245 | STK-U Stiffener Side Arm Attachment (ATT) | 200 |
| 6' Side Mount Standoff (ECI-15) | 238 | Pirod 4' Side Mount Standoff (1) (ECI-50) | 179 |
| 531-70HD Exposed Dipole Antenna (ECI-15) | 238 | 1151-3 (ECI-50) | 179 |
| Valmont VFA-10-U V-Frame (Verizon) | 232 | DB586-Y (ECI-51) | 177 |
| Valmont VFA-10-U V-Frame (Verizon) | 232 | 430-94C-09168-M-11048 TTA (ECI-52) | 176 |
| Valmont VFA-10-U V-Frame (Verizon) | 232 | Pirod 4' Side Mount Standoff (1) (ECI-53,52,51) | 176 |
| JAHH-65B-R3B Panel Antenna (Verizon-AWS) | 232 | DB586-Y (inverted) (ECI-53) | 175 |
| JAHH-65B-R3B Panel Antenna (Verizon-PCS) | 232 | L-810 Obstruction Lighting (1) (ECI-54) | 168 |
| LNX-6512DS-VTM (Verizon-850) | 232 | L-810 Obstruction Lighting (1) (ECI-55) | 165 |
| MT6407-77A (Verizon - Proposed) | 232 | L-810 Obstruction Lighting (1) (ECI-56) | 164 |
| | 232 | Telewave ANT220F2 - Omni Antenna (Eversource) | 163 |
| (Verizon-PCS/AWS) | 200 | Sitepro1 USF-4U Mount Assembly (Ca = 1.4 assumed) (Eversource) | 160 |
| | 232 | | |
| | 232 | 5'3"x4" Pipe Mount (ECI-58a (Dish Support)) | 154 |
| DB-B1-6C-12AB-0Z / DC-3315-PF-48 Dist. Box (Verizon) | 232 | Commscope PAR6-59W-PXA/A (ECI-58) | 154 |
| (* ======) | 232 | ANT450F6 (ECI-57) | 153 |
| | 232 | 5'3*x4" Pipe Mount (ECI-57) | 153 |
| | 10 N | Telewave ANT220F2 - Omni Antenna (Eversource) | 145 |
| | 232 | Sitepro1 USF-4U Mount Assembly (Ca = 1.4 assumed) (Eversource) | 142 |
| | 232 | | 490 |
| BSAMNT-SBS-2-2 (JAHH Antenna Bracket (for 2)) (Verizon-PCS/AWS) | 232 | DB212-1 (ECI-59) | 139 |
| | 232 | PD156S (ECI-60) | 139 |
| | 232 | 4" Side Mount Standoff (ECI-60_59) | 139 |
| | 232 | 3" Wide Ice Shield (for Dish Antennas) (Assume Ca=2.0) (ECI-61a) | 117 |
| <u>, , , , , , , , , , , , , , , , , , , </u> | 232 | 8' Wide Ice Shield (for Dish Antennas) (Assume Ca=2.0) (ECI-63a (Dish Ice Shield)) | 115 |
| JAHH-65B-R3B Panel Antenna (Verizon-AVVS) JAHH-65B-R3B Panel Antenna (Verizon-PCS) | 232 | 5'3"x4" Pipe Mount (ECI-61a (Dish Support)) | 112 |
| | | | |
| | 232 | Andrew 2" wRadome (ECI-61) | 112 |
| | 232 | PA8-65 (ECI-63) | 107 |
| BSAMNT-SBS-2-2 (JAHH Antenna Bracket (for 2)) (Verizon-PCS/AWS) | 232 | 5'3"x4" Pipe Mount (ECI-63 (Dish Support)) Pirod 4" Side Mount Standoff (1) (ECI-62) | 107 |
| B2/B66A RRH (Verizon RRH) | 232 | PD458 (ECI-62) | 106 |
| | 232 | PD688S-4 (ECI-66) | 94 |
| B5/B13 RRH (Verizon RRH) | | | |

| | | MATERIAL | STRENGTH | | |
|---------|--------|----------|----------|--------|--------|
| GRADE | Fy | Fu | GRADE | Fy | Fu |
| A572-50 | 50 ksi | 65 ksi | A36 | 36 ksi | 58 ksi |

TOWER DESIGN NOTES

MAX. CORNER REACTIONS AT BASE: DOWN: 932737 lb SHEAR: 122027 lb

MOMENT 30645 kip-ft

MOMENT 24339 kip-ft

UPLIFT: -734186 lb SHEAR: 101814 lb

AXIAL 189255 lb

.1

TORQUE 577 kip-ft 90 mph WIND - 0.5000 in ICE

AXIAL 140925 lb

TORQUE 343 kip-ft REACTIONS - 90 mph WIND

SHEAR 202328 lb_

SHEAR 159086 lb_

 \bigtriangleup

Tower designed for a 90 mph basic wind in accordance with the TIA/EIA-222-F Standard.
 Tower is also designed for a 90 mph basic wind with 0.50 in ice.
 Sueflections are based upon a 90 mph wind.
 PoPetra Displacement Effects are not applicable to this tower for this case (TIA-222-H Section 3.5)
 TOWER RATING: 137.5%

| Centek Engineering Inc. | ^{Job:} 21007.82 - Colche | ster | |
|-------------------------|---|--|-------------|
| 63-2 North Branford Rd. | Project: 320-ft Lattice Tower | CSP #50) | |
| Branford, CT 06405 | Client: Verizon | Drawn by: TJL | App'd: |
| Phone: (203) 488-0580 | Code: TIA/EIA-222-F | Date: 03/24/22 | Scale: NTS |
| FAX: (203) 488-8587 | Path: Junit107101918 Colours 07/5 Instantiadaptics | and the second state of th | Dwg No. E-1 |

tnxTower

Centek Engineering Inc. 63-2 North Branford Rd.

63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

| Job | | Page |
|---------|--------------------------------|---------------------------|
| | 21007.82 - Colchester | 1 of 4 |
| Project | 320-ft Lattice Tower (CSP #50) | Date 14:11:22 03/24/22 |
| Client | Verizon | Designed by TJL |

Load Combinations

| Comb. | Description |
|-------|-----------------------------|
| No. | <i>T</i> |
| 1 | Dead Only |
| 2 | Dead+Wind 0 deg - No Ice |
| 3 | Dead+Wind 30 deg - No Ice |
| 4 | Dead+Wind 45 deg - No Ice |
| 5 | Dead+Wind 60 deg - No Ice |
| 6 | Dead+Wind 90 deg - No Ice |
| 7 | Dead+Wind 120 deg - No Ice |
| 8 | Dead+Wind 135 deg - No Ice |
| 9 | Dead+Wind 150 deg - No Ice |
| 10 | Dead+Wind 180 deg - No Ice |
| 11 | Dead+Wind 210 deg - No Ice |
| 12 | Dead+Wind 225 deg - No Ice |
| 13 | Dead+Wind 240 deg - No Ice |
| 14 | Dead+Wind 270 deg - No Ice |
| 15 | Dead+Wind 300 deg - No Ice |
| 16 | Dead+Wind 315 deg - No Ice |
| 17 | Dead+Wind 330 deg - No Ice |
| 18 | Dead+Ice+Temp |
| 19 | Dead+Wind 0 deg+Ice+Temp |
| 20 | Dead+Wind 30 deg+Ice+Temp |
| 21 | Dead+Wind 45 deg+Ice+Temp |
| 22 | Dead+Wind 60 deg+Ice+Temp |
| 23 | Dead+Wind 90 deg+Ice+Temp |
| 24 | Dead+Wind 120 deg+Ice+Temp |
| 25 | Dead+Wind 135 deg+Ice+Temp |
| 26 | Dead+Wind 150 deg+Ice+Temp |
| 27 | Dead+Wind 180 deg+Ice+Temp |
| 28 | Dead+Wind 210 deg+Ice+Temp |
| 29 | Dead+Wind 225 deg+Ice+Temp |
| 30 | Dead+Wind 240 deg+Ice+Temp |
| 31 | Dead+Wind 270 deg+Ice+Temp |
| 32 | Dead+Wind 300 deg+Ice+Temp |
| 33 | Dead+Wind 315 deg+Ice+Temp |
| 34 | Dead+Wind 330 deg+Ice+Temp |
| 35 | Dead+Wind 0 deg - Service |
| 36 | Dead+Wind 30 deg - Service |
| 37 | Dead+Wind 45 deg - Service |
| 38 | Dead+Wind 60 deg - Service |
| 39 | Dead+Wind 90 deg - Service |
| 40 | Dead+Wind 120 deg - Service |
| 41 | Dead+Wind 135 deg - Service |
| 42 | Dead+Wind 150 deg - Service |
| 43 | Dead+Wind 180 deg - Service |
| 44 | Dead+Wind 210 deg - Service |
| 45 | Dead+Wind 225 deg - Service |
| 46 | Dead+Wind 240 deg - Service |
| 47 | Dead+Wind 270 deg - Service |
| 48 | Dead+Wind 300 deg - Service |
| 49 | Dead+Wind 315 deg - Service |
| 50 | Dead+Wind 330 deg - Service |

tn

Centek 63-2 Bra Phor FA2

| nxTower | Job | 21007.82 - Colchester | Page 2 of 4 |
|--|---------|--------------------------------|---------------------------|
| ek Engineering Inc. -2 North Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:11:22 03/24/22 |
| Branford, CT 06405 tone: (203) 488-0580 AX: (203) 488-8587 | Client | Verizon | Designed by TJL |

| Section | Elevation | Horz. | Gov. | Tilt | Twist |
|---------|-----------|------------|-------|--------|--------|
| No. | | Deflection | Load | | |
| | ft | in | Comb. | 0 | O |
| T1 | 320 - 304 | 19.277 | 40 | 0.4393 | 0.2011 |
| T2 | 304 - 300 | 17.789 | 40 | 0.4358 | 0.2020 |
| Т3 | 300 - 280 | 17.417 | 40 | 0.4334 | 0.2021 |
| T4 | 280 - 260 | 15.588 | 40 | 0.4205 | 0.2022 |
| Т5 | 260 - 240 | 13.790 | 40 | 0.4125 | 0.2000 |
| T6 | 240 - 220 | 12.012 | 40 | 0.4000 | 0.1876 |
| T7 | 220 - 200 | 10.289 | 40 | 0.3814 | 0.1747 |
| T8 | 200 - 180 | 8.661 | 40 | 0.3557 | 0.1632 |
| Т9 | 180 - 170 | 7.114 | 40 | 0.3292 | 0.1480 |
| T10 | 170 - 160 | 6.377 | 40 | 0.3142 | 0.1395 |
| T11 | 160 - 140 | 5.667 | 40 | 0.2981 | 0.1308 |
| T12 | 140 - 120 | 4.395 | 40 | 0.2614 | 0.1191 |
| T13 | 120 - 100 | 3.276 | 40 | 0.2210 | 0.1065 |
| T14 | 100 - 80 | 2.345 | 40 | 0.1814 | 0.0876 |
| T15 | 80 - 60 | 1.590 | 40 | 0.1397 | 0.0721 |
| T16 | 60 - 30 | 1.020 | 35 | 0.1016 | 0.0587 |
| T17 | 30 - 0 | 0.352 | 35 | 0.0462 | 0.0284 |

Critical Deflections and Radius of Curvature - Service Wind

| Elevation | Appurtenance | Gov. | Deflection | Tilt | Twist | Radius of |
|-----------|--|-------|------------|--------|--------|-----------|
| | | Load | | | | Curvature |
| ft | | Comb. | in | 0 | 0 | ft |
| 329.00 | Lightning Rod 5/8x4' | 40 | 19.277 | 0.4393 | 0.2011 | Inf |
| 327.00 | Dual Lights | 40 | 19.277 | 0.4393 | 0.2011 | Inf |
| 325.00 | PD128-1 | 40 | 19.277 | 0.4393 | 0.2011 | Inf |
| 320.00 | BA1012-0 | 40 | 19.277 | 0.4393 | 0.2011 | Inf |
| 318.00 | ANT450F6 | 40 | 19.091 | 0.4391 | 0.2012 | Inf |
| 300.00 | SC479-HF1LDF | 40 | 17.417 | 0.4334 | 0.2021 | 91951 |
| 290.00 | PD340-1 | 40 | 16.497 | 0.4266 | 0.2022 | 97847 |
| 286.00 | DB809T3E-XC | 40 | 16.132 | 0.4240 | 0.2022 | 118949 |
| 284.00 | 6' Side Mount Standoff | 40 | 15.951 | 0.4227 | 0.2022 | 133294 |
| 283.00 | SC479-HF1LDF(D00I-E6085) | 40 | 15.860 | 0.4221 | 0.2022 | 141608 |
| | (Inverted) | | | | | |
| 264.00 | PD440-2 | 40 | 14.148 | 0.4141 | 0.2011 | 299212 |
| 260.00 | 6' Side Mount Standoff | 40 | 13.790 | 0.4125 | 0.2000 | 317572 |
| 251.00 | SC479-HF1LDF | 40 | 12.986 | 0.4077 | 0.1953 | 164246 |
| 248.00 | PD1142-1 | 40 | 12.719 | 0.4058 | 0.1933 | 134969 |
| 247.00 | 430-94C-09168-M-11048 TTA | 40 | 12.630 | 0.4051 | 0.1926 | 127399 |
| 246.00 | Sabre T-Boom (1) | 40 | 12.542 | 0.4044 | 0.1919 | 120633 |
| 245.00 | SC479-HF1LDF(D00I-E6085) | 40 | 12.453 | 0.4037 | 0.1912 | 114550 |
| | (Inverted) | | | | | |
| 238.00 | 531-70HD Exposed Dipole Antenna | 40 | 11.836 | 0.3985 | 0.1862 | 81854 |
| 232.00 | Valmont VFA-10-U V-Frame | 40 | 11.313 | 0.3935 | 0.1822 | 62732 |
| 200.00 | PiROD 12' Lightweight T-Frame | 40 | 8.661 | 0.3557 | 0.1632 | 68208 |
| 179.00 | 1151-3 | 40 | 7.040 | 0.3278 | 0.1472 | 47064 |
| 177.00 | DB586-Y | 40 | 6.891 | 0.3248 | 0.1455 | 48557 |
| 176.00 | Pirod 4' Side Mount Standoff (1) | 40 | 6.816 | 0.3233 | 0.1447 | 49650 |
| 175.00 | DB586-Y (inverted) | 40 | 6.743 | 0.3219 | 0.1438 | 50887 |
| 168.00 | L-810 Obstruction Lighting (1) | 40 | 6.232 | 0.3110 | 0.1377 | 40804 |
| 165.00 | L-810 Obstruction Lighting (1) | 40 | 6.017 | 0.3063 | 0.1350 | 29594 |
| 164.00 | L-810 Obstruction Lighting (1) | 40 | 5.946 | 0.3047 | 0.1342 | 26966 |
| 163.00 | Telewave ANT220F2 - Omni Antenna | 40 | 5.875 | 0.3030 | 0.1333 | 24881 |
| 160.00 | Sitepro1 USF-4U Mount Assembly (Ca = 1.4 assumed) | 40 | 5.667 | 0.2981 | 0.1308 | 21485 |
| 154.00 | Commscope PAR6-59W-PXA/A | 40 | 5.266 | 0.2877 | 0.1266 | 23519 |

Centek Engineering Inc. 63-2 North Branford Rd. Branford, CT 06405 Phone: (203) 488-0580 FAX: (203) 488-8587

| Job | Page |
|--------------------------------|-------------------|
| 21007.82 - Colchester | 3 of 4 |
| Project | Date |
| 320-ft Lattice Tower (CSP #50) | 14:11:22 03/24/22 |
| Client | Designed by |
| Verizon | TJL |

| Elevation | Appurtenance | Gov. | Deflection | Tilt | Twist | Radius of |
|-----------|----------------------------------|-------|------------|--------|--------|-----------|
| | | Load | | | | Curvature |
| ft | | Comb. | in | 0 | 0 | ft |
| 153.00 | ANT450F6 | 40 | 5.201 | 0.2859 | 0.1260 | 24270 |
| 145.00 | Telewave ANT220F2 - Omni | 40 | 4.697 | 0.2711 | 0.1217 | 32593 |
| | Antenna | | | | | |
| 142.00 | Sitepro1 USF-4U Mount Assembly | 40 | 4.515 | 0.2653 | 0.1202 | 36821 |
| | (Ca = 1.4 assumed) | | | | | |
| 139.00 | DB212-1 | 40 | 4.335 | 0.2594 | 0.1186 | 38256 |
| 117.00 | 3' Wide Ice Shield (for Dish | 40 | 3.124 | 0.2151 | 0.1039 | 23417 |
| | Antennas) (Assume Ca=2.0) | | | | | |
| 115.00 | 8' Wide Ice Shield (for Dish | 40 | 3.026 | 0.2111 | 0.1021 | 24104 |
| | Antennas) (Assume Ca=2.0) | | | | | |
| 112.00 | Andrew 2' w/Radome | 40 | 2.881 | 0.2052 | 0.0992 | 25298 |
| 107.00 | PA8-65 | 40 | 2.650 | 0.1954 | 0.0943 | 27575 |
| 106.00 | Pirod 4' Side Mount Standoff (1) | 40 | 2.606 | 0.1934 | 0.0934 | 28080 |
| 94.00 | PD688S-4 | 40 | 2.099 | 0.1689 | 0.0824 | 27410 |

Maximum Tower Deflections - Design Wind

| Section | Elevation | Horz. | Gov. | Tilt | Twist |
|---------|-----------|------------|-------|--------|--------|
| No. | | Deflection | Load | | |
| | ft | in | Comb. | 0 | 0 |
| T1 | 320 - 304 | 24.109 | 24 | 0.5508 | 0.3322 |
| T2 | 304 - 300 | 22.244 | 24 | 0.5461 | 0.3330 |
| T3 | 300 - 280 | 21.777 | 24 | 0.5431 | 0.3329 |
| T4 | 280 - 260 | 19.486 | 24 | 0.5262 | 0.3316 |
| T5 | 260 - 240 | 17.236 | 24 | 0.5158 | 0.3264 |
| T6 | 240 - 220 | 15.014 | 24 | 0.4998 | 0.3074 |
| T7 | 220 - 200 | 12.866 | 24 | 0.4761 | 0.2868 |
| T8 | 200 - 180 | 10.838 | 24 | 0.4438 | 0.2685 |
| T9 | 180 - 170 | 8.911 | 24 | 0.4107 | 0.2451 |
| T10 | 170 - 160 | 7.992 | 24 | 0.3921 | 0.2319 |
| T11 | 160 - 140 | 7.107 | 24 | 0.3720 | 0.2183 |
| T12 | 140 - 120 | 5.520 | 24 | 0.3264 | 0.1999 |
| T13 | 120 - 100 | 4.122 | 24 | 0.2761 | 0.1797 |
| T14 | 100 - 80 | 2.958 | 24 | 0.2267 | 0.1486 |
| T15 | 80 - 60 | 2.011 | 24 | 0.1749 | 0.1219 |
| T16 | 60 - 30 | 1.296 | 19 | 0.1272 | 0.0992 |
| T17 | 30 - 0 | 0.453 | 19 | 0.0580 | 0.0479 |

Critical Deflections and Radius of Curvature - Design Wind

| Elevation | Appurtenance | Gov. Load | Deflection | Tilt | Twist | Radius of Curvature |
|-----------|------------------------|--------------|------------|--------|--------|------------------------|
| ft | | Comb. | in | o | o | ft |
| 329.00 | Lightning Rod 5/8x4' | 24 | 24.109 | 0.5508 | 0.3322 | Inf |
| 327.00 | Dual Lights | 24 | 24.109 | 0.5508 | 0.3322 | Inf |
| 325.00 | PD128-1 | 24 | 24.109 | 0.5508 | 0.3322 | Inf |
| 320.00 | BA1012-0 | 24 | 24.109 | 0.5508 | 0.3322 | Inf |
| 318.00 | ANT450F6 | 24 | 23.876 | 0.5506 | 0.3324 | Inf |
| 300.00 | SC479-HF1LDF | 24 | 21.777 | 0.5431 | 0.3329 | 71434 |
| 290.00 | PD340-1 | 24 | 20.624 | 0.5342 | 0.3323 | 74612 |
| 286.00 | DB809T3E-XC | 24 | 20.167 | 0.5308 | 0.3321 | 89057 |
| 284.00 | 6' Side Mount Standoff | 24 | 19.939 | 0.5291 | 0.3319 | 98583 |

tnx

Centek En 63-2 Nort Branfor Phone: (2 FAX: (2)

| T | Job | | Page |
|--|---------|--------------------------------|---------------------------|
| :Tower | | 21007.82 - Colchester | 4 of 4 |
| E ngineering Inc. orth Branford Rd. | Project | 320-ft Lattice Tower (CSP #50) | Date 14:11:22 03/24/22 |
| ford, CT 06405 (203) 488-0580 (203) 488-8587 | Client | Verizon | Designed by TJL |

| Elevation | Appurtenance | Gov. Load | Deflection | Tilt | Twist | Radius of Curvature |
|-----------|----------------------------------|--------------|------------|--------|--------|------------------------|
| ft | | Comb. | in | 0 | 0 | ft |
| 283.00 | SC479-HF1LDF(D00I-E6085) | 24 | 19.826 | 0.5284 | 0.3318 | 103974 |
| | (Inverted) | | | | | |
| 264.00 | PD440-2 | 24 | 17.684 | 0.5179 | 0.3286 | 213257 |
| 260.00 | 6' Side Mount Standoff | 24 | 17.236 | 0.5158 | 0.3264 | 226095 |
| 251.00 | SC479-HF1LDF | 24 | 16.231 | 0.5096 | 0.3192 | 118744 |
| 248.00 | PD1142-1 | 24 | 15.897 | 0.5071 | 0.3162 | 98439 |
| 247.00 | 430-94C-09168-M-11048 TTA | 24 | 15.787 | 0.5063 | 0.3152 | 93130 |
| 246.00 | Sabre T-Boom (1) | 24 | 15.676 | 0.5054 | 0.3141 | 88365 |
| 245.00 | SC479-HF1LDF(D00I-E6085) | 24 | 15.565 | 0.5045 | 0.3130 | 84064 |
| | (Inverted) | | | | | |
| 238.00 | 531-70HD Exposed Dipole Antenna | 24 | 14.795 | 0.4977 | 0.3051 | 61383 |
| 232.00 | Valmont VFA-10-U V-Frame | 24 | 14.143 | 0.4913 | 0.2983 | 48359 |
| 200.00 | PiROD 12' Lightweight T-Frame | 24 | 10.838 | 0.4438 | 0.2685 | 54651 |
| 179.00 | 1151-3 | 24 | 8.818 | 0.4089 | 0.2438 | 38333 |
| 177.00 | DB586-Y | 24 | 8.632 | 0.4053 | 0.2412 | 39601 |
| 176.00 | Pirod 4' Side Mount Standoff (1) | 24 | 8.540 | 0.4035 | 0.2399 | 40521 |
| 175.00 | DB586-Y (inverted) | 24 | 8.448 | 0.4016 | 0.2386 | 41563 |
| 168.00 | L-810 Obstruction Lighting (1) | 24 | 7.811 | 0.3882 | 0.2291 | 33168 |
| 165.00 | L-810 Obstruction Lighting (1) | 24 | 7.543 | 0.3822 | 0.2249 | 23915 |
| 164.00 | L-810 Obstruction Lighting (1) | 24 | 7.455 | 0.3802 | 0.2235 | 21761 |
| 163.00 | Telewave ANT220F2 - Omni | 24 | 7.367 | 0.3782 | 0.2222 | 20057 |
| | Antenna | | | | | |
| 160.00 | Sitepro1 USF-4U Mount Assembly | 24 | 7.107 | 0.3720 | 0.2183 | 17288 |
| | (Ca = 1.4 assumed) | | | | | |
| 154.00 | Commscope PAR6-59W-PXA/A | 24 | 6.606 | 0.3591 | 0.2117 | 18937 |
| 153.00 | ANT450F6 | 24 | 6.525 | 0.3569 | 0.2108 | 19548 |
| 145.00 | Telewave ANT220F2 - Omni | 24 | 5.897 | 0.3384 | 0.2039 | 26340 |
| | Antenna | | | | | |
| 142.00 | Sitepro1 USF-4U Mount Assembly | 24 | 5.669 | 0.3312 | 0.2015 | 29807 |
| | (Ca = 1.4 assumed) | | | | | |
| 139.00 | DB212-1 | 24 | 5.445 | 0.3239 | 0.1991 | 30982 |
| 117.00 | 3' Wide Ice Shield (for Dish | 24 | 3.932 | 0.2687 | 0.1755 | 18831 |
| | Antennas) (Assume Ca=2.0) | | | | | |
| 115.00 | 8' Wide Ice Shield (for Dish | 24 | 3.809 | 0.2638 | 0.1725 | 19396 |
| | Antennas) (Assume Ca=2.0) | | | | | |
| 112.00 | Andrew 2' w/Radome | 24 | 3.629 | 0.2565 | 0.1679 | 20380 |
| 107.00 | PA8-65 | 24 | 3.340 | 0.2442 | 0.1598 | 22262 |
| 106.00 | Pirod 4' Side Mount Standoff (1) | 24 | 3.284 | 0.2418 | 0.1582 | 22681 |
| 94.00 | PD688S-4 | 24 | 2.650 | 0.2112 | 0.1397 | 22116 |

Program Version 8.1.1.0 - 6/3/2021 File:J:/Jobs/2100700.WI/82_Colchester CT/05_Structural/Backup Documentation/Tnxtower/Twist and Sway/Colchester #50 TIA-222-F.eri



Location:

Rev. 0: 3/24/22

Anchor Bolt Analysis

320-ft Lattice Tower Colchester, CT

Prepared by: T.J.L. Checked by: C.F.C. Job No. 21007.82

Anchor Bolt Analysis:

Input Data:

Tower Reactions:

| Tension Force = | Tension := 743 kips | (Input From tnxTower) |
|---------------------|-------------------------|-----------------------|
| Compression Force = | Compression := 945 kips | (Input From tnxTower) |
| Shear Force = | Shear := 130 kips | (Input From tnxTower) |

Anchor Bolt Data:

| ASTMA354 Grade BC | Per ROHN Drawing A971600 date | d 9/23/1999 |
|--|-------------------------------|--------------|
| Number of Anc hor Bolts = | N := 24 | (User Input) |
| Bolt Ultimate Strength = | F _u := 125⋅ksi | (User Input) |
| Bolt Yield Strength = | F _y ≔ 109 ksi | (User Input) |
| Bolt Modulus = | E := 29000 ksi | (User Input) |
| Diameter of Anchor Bolts = | D := 1.00 in | (User Input) |
| Threads per Inch = | n:= 8 | (User Input) |
| Length from Top of Pier to Bottom of Leveling Nut = | L _{ar} := 0 in | (User Input) |



Location:

Rev. 0: 3/24/22

Anchor Bolt Analysis

320-ft Lattice Tower Colchester, CT

Prepared by: T.J.L. Checked by: C.F.C. Job No. 21007.82

Anchor Bolt Analysis:

Calculated Anchor Bolt Properties:

GrossArea of Bolt=

NetArea of Bdt =

 $A_g := \frac{\pi}{4} \cdot D^2 = 0.785 \cdot in^2$ $A_n := \frac{\pi}{4} \cdot \left(D - \frac{0.9743 \cdot in}{n} \right)^2 = 0.606 \cdot in^2$ $\mathsf{D}_{\mathsf{n}} \coloneqq \frac{2 \cdot \sqrt{\mathsf{A}_{\mathsf{n}}}}{\sqrt{\pi}} = 0.878 \cdot \mathsf{in}$

Net Diameter =

Radius of Gyration of Bolt =

Elastic Section Modulus of Bolt =

$$r := \frac{D_{n}}{4} = 0.22 \cdot in$$

$$S_{x} := \frac{\pi \cdot D_{n}^{3}}{32} = 0.066 \cdot in^{3}$$

$$Z_{x} := \frac{D_{n}^{3}}{6} = 0.113 \cdot in^{3}$$

Plastic Section Modulus of Bolt =

Anchor Bolt Design Strength:

| Resistance Factor for Flexure = | $\phi_{f} \coloneqq 0.9$ |
|---------------------------------------|---|
| Resistance Factor for Compression = | $\phi_{c} \coloneqq 0.9$ |
| Resistance Factor for Tension = | $\phi_t \coloneqq 0.75$ |
| Resistance Factor for Shear = | $\phi_{V} \coloneqq 0.75$ |
| Design Tensile Strength = | $\Phi R_{nt} := \varphi_t \cdot F_u \cdot A_n = 56.8 \cdot k$ |
| Design Compression Strength = | $\Phi R_{nc} \coloneqq \varphi_c \cdot F_y \cdot A_g = 77 \cdot k$ |
| Design Shear Strength (Tension) = | $\Phi R_{nv} := \varphi_v \cdot 0.5 F_u \cdot A_g = 36.8 \cdot k$ |
| Design Shear Strength (Compression) = | $\Phi R_{nvc} \coloneqq \varphi_c \cdot 0.6F_y \cdot A_g \cdot 0.75 = 34.7 \cdot k$ |



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Location:

Rev. 0: 3/24/22

Anchor Bolt Analysis

320-ft Lattice Tower Colchester, CT

Prepared by: T.J.L. Checked by: C.F.C. Job No. 21007.82

Check Anc hor Bolt Tension Force:

Maximum Tensile Force =

$$P_{ut} := \frac{Tension}{N} = 31 \cdot kips$$

Maximum Compressive Force =

$$P_{uc} := \frac{Compression}{N} = 39.4 \text{ kips}$$

Maximum Shear Force =

Condition1 =

$$\text{Condition1} := \text{ if} \left[\left(\frac{\mathsf{P}_{ut}}{\Phi\mathsf{R}_{nt}} \right)^2 + \left(\frac{\mathsf{V}_u}{\Phi\mathsf{R}_{nv}} \right)^2 \right] \le 1.00, "\mathsf{OK"}, "\mathsf{Overstressed"} \right]$$

Condition1 = "OK"

 $V_u := \frac{Shear}{N} = 5.4 \cdot kips$

Condition2 =

Condition2 := if $\left[\left(\frac{P_{uc}}{\Phi R_{nc}} \right) + \left(\frac{V_u}{\Phi R_{nvc}} \right)^2 \right] \le 1.00, "OK", "Overstressed"$

Condition2 = "OK"

 $max \!\!\left[\!\left(\frac{\mathsf{P}_{ut}}{\Phi\mathsf{R}_{nt}}\!\right)^{2} + \left(\frac{\mathsf{V}_{u}}{\Phi\mathsf{R}_{nv}}\!\right)^{2}, \!\left(\frac{\mathsf{P}_{uc}}{\Phi\mathsf{R}_{nc}}\right) + \left(\frac{\mathsf{V}_{u}}{\Phi\mathsf{R}_{nvc}}\!\right)^{2}\!\right] = 53.5 \cdot \%$

Bolt % of Capacity =



Location:

Rev. 0: 3/24/22

FOUNDATION ANALYSIS

320-ft Lattice Tower Colchester, MA

Prepared by: T.J.L Checked by: C.F.C. Job no. 21007.82

| Caisson Foundation: | | |
|--|------------------------------------|--------------------------------|
| Input Data: | | |
| Tower Data | | |
| Uplift= | Uplift:= 743 kips | (User Input) |
| Compression = | Comp := 945 kips | (User Input) |
| Shear Force = | Shear := 130 kips | (User Input) |
| Tower Height = | $H_t := 320 \cdot ft$ | (User Input) |
| Footing Data: | | |
| Length of Caisson = | $L_c := 35.5 \cdot ft$ | (User Input) |
| Extension of Caisson Above Grade = | $L_{cag} := 0.5 \cdot ft$ | (User Input) |
| Diameter of Caisson = | $d_{c} := 7.5 \cdot ft$ | (User Input) |
| Length of Caisson Above Wate Table = | $L_{c.AWT} := 10.5 \text{ ft}$ | (User Input) |
| Length of Caisson Above Wate Table = | $L_{c.BWT} := 25 \cdot ft$ | (User Input) |
| Conrete Pad Width = | Pad _w := 12⋅ft | (User Input - URS Mod 7/13/12) |
| Conrete Pad Depth = | Pad _d := 4⋅ft | (User Input - URS Mod 7/13/12) |
| | | |
| Material Properties: | | |
| Concrete Compressive Strength = | f _c := 4000 ⋅ psi | (User Input) |
| Steel Reinforcment Yield Strength = | f _y ≔ 60000 psi | (User Input) |
| Ultimate Skin Friction (Above WaterTable) = | $\mu_1 := 0.76 \cdot ksf$ | (User Input) |
| Ultimate Skin Friction (Below Water Table) = | $\mu_2 := 1.4 \cdot ksf$ | (User Input) |
| Ultimate Soil Bearing Capacity (at Bot of Caisson) = | q _{u1} := 13400 psf | (User Input) |
| Ultimate Soil Bearing Capacity (at Bot of Pad) = | $q_{u2} := 4000 \cdot psf$ | (User Input) |
| Unit Weight of Soil = | γ _{soil} ∶= 120 pcf | (User Input) |
| Unit Weight of Concrete = | $\gamma_{conc} := 150 \text{ pcf}$ | (User Input) |
| Depth to Neglect = | n := 4∙ft | (User Input) |
| Resistance Factor for Bearing = | $^{\Phi}$ sBearing := 0.75 | (TIA-222-H 9.7) |
| Resistance Factor for Friction = | $\Phi_{sFriction} \coloneqq 0.75$ | (TIA-222-H 9.7) |
| | | |



Branford, CT 06405 F: (203) 488-8587

Location:

Rev. 0: 3/24/22

FOUNDATION ANALYSIS

320-ft Lattice Tower Colchester, MA

Prepared by: T.J.L Checked by: C.F.C. Job no. 21007.82

Calculated Properties:

Adjusted Concrete Unit Weight =

Weight of Concrete Caisson (no water) =

Weight of Concrete Caisson (water) =

Weight of Concrete Pad =

Bearing Area of Concrete Pad =

$$WT_{c.comp} := \frac{\pi}{4} \cdot \left(d_{c}^{2}L_{c} \right) \cdot \gamma_{conc} = 235.251 \cdot kip$$

$$WT_{c.uplift} := \frac{\pi}{4} \cdot \left[\left(d_{c}^{2}L_{c.AWT} \right) \cdot \gamma_{conc} + \left(d_{c}^{2}L_{c.BWT} \right) \cdot \gamma_{c} \right] = 166.333 \cdot kip$$

$$WT_{pad} := \left[Pad_{w}^{2} - \frac{\pi}{4} \cdot \left(d_{c}^{2} \right) \right] \cdot Pad_{d'}\gamma_{conc} = 59.893 \cdot kip$$

$$A_{pad} :- \left[Pad_{w}^{2} - \frac{\pi}{4} \cdot \left(d_{c}^{2} \right) \right] - 99.821$$

Check Uplift:

Uplift Resistance from Concrete Weight =

Uplift Resistance from Skin Friction =

Total Uplift Resistance =

Uplift Check =

 $Uplift_{conc} := (WT_{c.uplift} + WT_{pad}) \cdot 0.9 = 203.603 \cdot kips$ $\text{Uplift}_{SF} \coloneqq \Phi_{sFriction} \cdot \pi \cdot d_{c} \cdot \left[\left(L_{c,AWT} - L_{cag} - n \right) \cdot \mu_{1} + L_{c,BWT} \cdot \mu_{2} \right] = 699 \cdot \text{kips}$ $\text{Uplift}_{R} := \text{Uplift}_{conc} + \text{Uplift}_{SF} = 902.686 \cdot \text{kips}$

 $\frac{\text{Uplift}}{\text{Uplift}_{R}} = 82.31 \cdot \%$

 $\gamma_{c} \coloneqq \gamma_{conc} - 62.4 pcf = 87.6 \cdot pcf$

$$Uplift_Check := if\left(\frac{Uplift}{Uplift} \ge 1.0, "Okay", "No Good"\right)$$

Total Compression Force =

Compression Resistance from Bearing =

Compression Resistance from Skin Friction =

$$\begin{split} & \text{Comp}_{tot} \coloneqq \text{WT}_{c.\,comp} + \text{Comp} + \text{WT}_{pad} = 1240 \cdot \text{kips} \\ & \text{Comp}_{bearing} \coloneqq \Phi_{sBearing} \cdot \left(\frac{\pi}{4} \cdot d_c^{-2} \cdot q_{u1} + A_{pad} \cdot q_{u2}\right) = 743 \cdot \text{kips} \\ & \text{Comp}_{SF} \coloneqq \Phi_{sFriction} \cdot \pi \cdot d_c \cdot \left[\left(L_{c.AWT} - L_{cag} - n \right) \cdot \mu_1 + L_{c.BWT} \cdot \mu_2 \right] = 699 \cdot \text{kips} \\ & \text{Comp}_{R} \coloneqq \text{Comp}_{bearing} + \text{Comp}_{SF} = 1443 \cdot \text{kips} \end{split}$$

Total Compression Resistance =

 $\frac{\text{Comp}_{\text{tot}}}{2} = 85.97 \cdot \%$ CompR

Compression_Check := if $\left(\frac{Comp_R}{Comp_{tot}} \ge 1.0, "Okay", "No Good" \right)$ Compression_Check = "Okay"





Maser Consulting Connecticut 20 Alexander Drive, 2nd Floor Wallingford, CT 06492 860.395.0055 peter.albano@colliersengineering.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10058930 Maser Consulting Connecticut Project #: 21777749A

July 2, 2021

Site Information

Site ID: Site Name: Carrier Name: Address: 467126-VZW / COLCHESTER CT COLCHESTER CT Verizon Wireless 11 Munn Road Colchester, Connecticut 06415 New London County 41.592500° -72.321111°

Latitude: Longitude:

Structure Information

Tower Type: Mount Type: 300-Ft Self Support 12.00-Ft Sector Frame

FUZE ID # 16281612

Analysis Results

Sector Frame: 62.8% Pass*

*Results valid after hardware upgrades noted in the PMI Requirements are installed.

***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: Frank Centone



Executive Summary:

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

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

Sources of Information:

| Document Type | Remarks |
|-----------------------------------|--|
| Radio Frequency Data Sheet (RFDS) | Verizon RFDS, Site ID: 323606, dated June 11, 2021 |
| Mount Mapping Report | Elite ICT, Site ID: 50, dated April 22, 2021 |

Analysis Criteria:

| Codes and Standards: | ANSI/TIA-222-H | |
|-------------------------|---|---|
| Wind Parameters: | Basic Wind Speed (Ultimate 3-sec. Gust), V _{ULT} : Ice Wind Speed (3-sec. Gust): Design Ice Thickness: Risk Category: Exposure Category: Topographic Category: Topographic Feature Considered: Topographic Method: Ground Elevation Factor, K _e : | 121 mph 50 mph 1.00 in II B 1 N/A N/A 0.979 |
| Seismic Parameters: | S _S : S ₁ : | 0.204 0.055 |
| Maintenance Parameters: | Wind Speed (3-sec. Gust): Maintenance Live Load, Lv: Maintenance Live Load, Lm: | 30 mph 250 lbs. 500 lbs. |
| Analysis Software: | RISA-3D (V17) | |

Final Loading Configuration:

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status |
|----------------------------|--------------------------------|----------|--------------|-------------------|----------|
| | | 3 | Samsung | MT6407-77A | Added |
| | | 6 | Commscope | JAHH-65B-R3B | |
| | | 3 | Andrew | LNX-6512DS-VTM | |
| 219.50 | 220.00 | 3 | Commscope | CBC78T-DS-43-2X | Botained |
| | | 1 | Raycap | RHSDC-6627-PF-48* | Retained |
| | | 3 | Samsung | B2/B66A RRH-BR049 | |
| | | 3 | Samsung | B5/B13 RHH-BR04C | |

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

* Equipment to be flush mounted directly to the Self Support. They are not mounted on the sector mounts and are not included in this mount analysis.

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

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

Standard Conditions:

- All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.
- 2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

- 3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped 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 Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
- 7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - Channel, Solid Round, Angle, Plate
 - HSS (Rectangular)
 - o Pipe
 - Threaded Rod
 - Bolts

ASTM 500 (Gr. B-46) ASTM A53 (Gr. B-35) F1554 (Gr. 36) ASTM A325

ASTM A36 (Gr. 36)

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 |
|---------------------|---------------|-----------|
| Tie Back | 62.8% | Pass |
| Standoff Vertical | 21.0% | Pass |
| Standoff Diagonal | 26.0% | Pass |
| Standoff Mast Pipe | 39.8% | Pass |
| Standoff Plate | 52.9% | Pass |
| Standoff Horizontal | 25.0% | Pass |
| Mast Pipe | 15.9% | Pass |
| Antenna Pipe | 17.4% | Pass |
| Face Horizontal | 17.2% | Pass |
| Connection Check | 49.9% | Pass |

Structure Rating – (Controlling Utilization of all Components)

;) |

62.8%

Recommendation:

The existing mounts are **SUFFICIENT** for the final loading configuration upon the completion of the recommendations listed in the Special instructions section of the below referenced PMI document.

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.

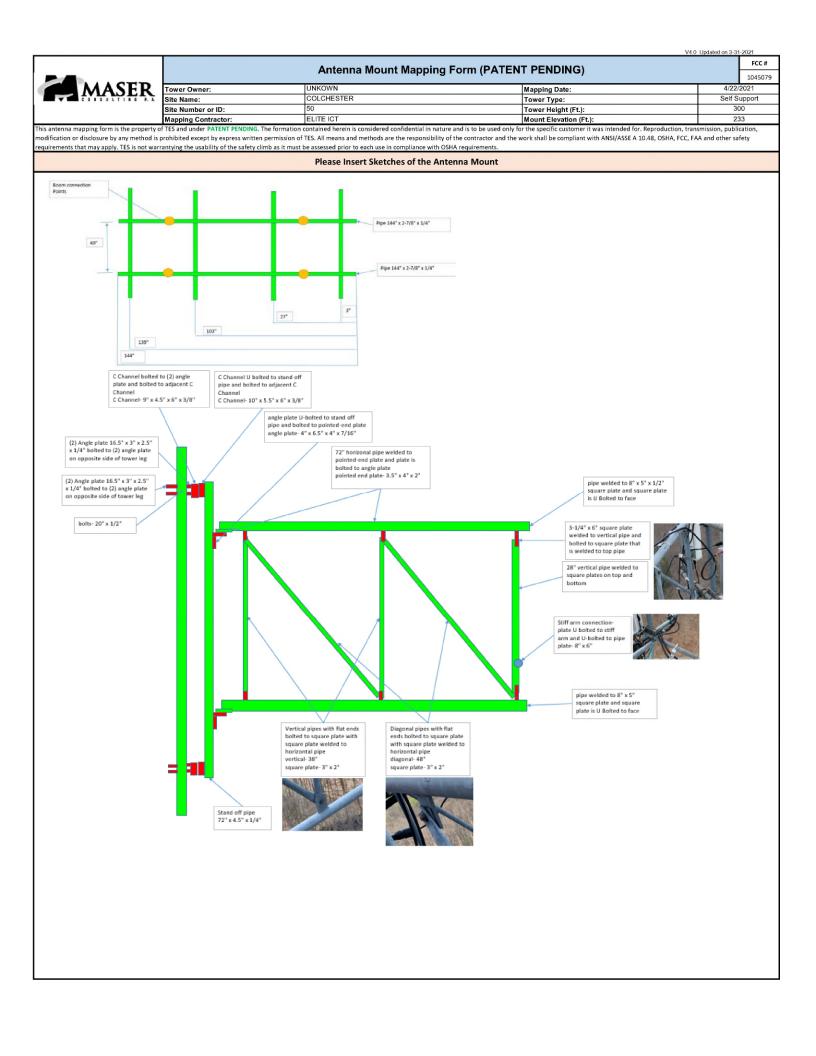
Attachments:

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

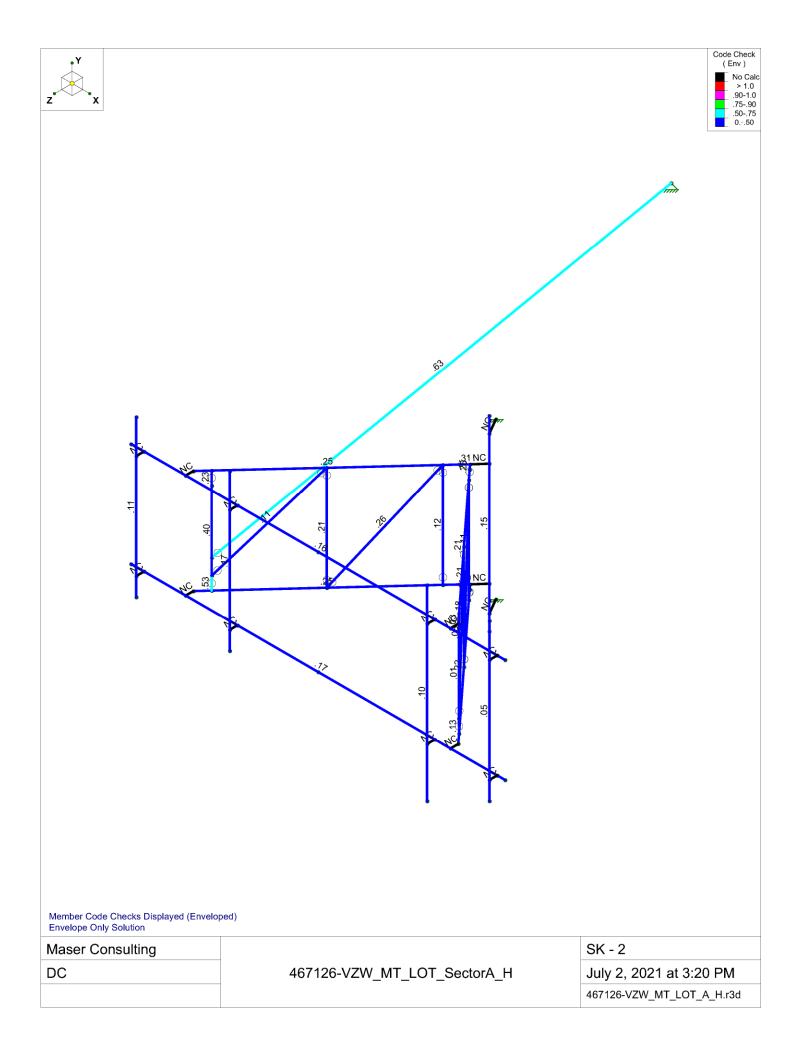


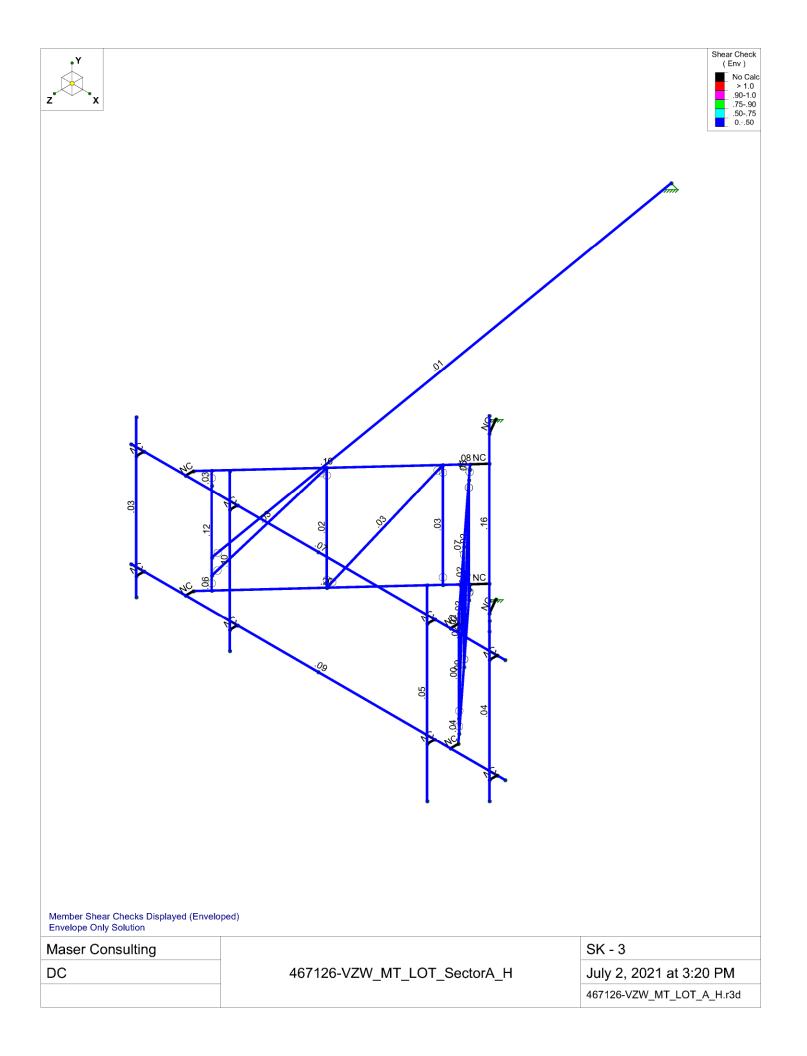
| | | Ante | enna Mount Ma | pping | Form (| PATEN | | DING) | | | | FCC # | | | |
|---|---|---|---|--|---|---|--|---|--|--|---|--|--|--|--|
| MASER | Tower Owner: | UNKOWN | | | _ | | Mapping [| Dato: | | | 4/22 | 2021 | | | |
| MASER | Site Name: | COLCHES | | | | | Tower Typ | | | | | upport | | | |
| | Site Number or ID: | 50 | | | | | Tower Hei | | | | | 00 | | | |
| | Mapping Contractor: | ELITE ICT | | | | | Mount Ele | |): | | | 33 | | | |
| This antenna mapping form is the property o | | | | tial in natu | re and is to b | e used only fo | | | | duction, tran | | | | | |
| modification or disclosure by any method is requirements that may apply. TES is not ware | | | | | SHA requiren | nents. | | | | DSHA, FCC, FA | A and other sa | fety | | | |
| | | | 1 | | Vertical | e Configurat | tion and Ge | eometries (| [Unit = Inches] | | Vertical | 1 | | | |
| | | Sector / Position | Mount Pipe Size & L | ength. | Offset Dimension "u" | Horizontal Offset "C1, C2, C3, etc." | Sector / Position | | Mount Pipe Size & Leng | gth | Offset Dimension "u" | Horizontal Offset "C1, C2, C3, etc. | | | |
| | | Al | A1 60 X 2.38 STD P | | | 3.00 | C1 | 60 X 2.38 S | | | 53.00 | 3.00 | | | |
| | | A2 | 72 X 2.38 STD P | | 55.00 | 27.00 | C2 | | 72 X 2.38 STD P | | 55.00 | 27.00 | | | |
| | | A3 | A3 60 X 2.38 STD P | | | 103.00 | C3 | 60 X 2.38 S | | | 53.00 | 103.00 | | | |
| | | A4 | 60 X 2.38 STD P | | 53.00 | 139.00 | C4 | 60 X 2.38 S | 2.38 STD P | | 53.00 | 139.00 | | | |
| | | A5 | | | | | C5 | | | | | | | | |
| Disease in the last | -false | A6 | | | 53.00 | | C6 | | | | | | | | |
| | of the antenna mount from the | | B1 60 X 2.38 STD P | | | 3.00 | D1 | | | | | | | | |
| Sketches" tab with din | nensions and members here. | B2 | 72 X 2.38 STD P | | 55.00 | 27.00 | D2 | | | | | | | | |
| | | B3 | 60 X 2.38 STD P | | 53.00 | 103.00 | D3 | | | | | | | | |
| | | B4 | 60 X 2.38 STD P | | 53.00 | 139.00 | D4 | | | | | | | | |
| | | B5 | | | | | D5 | | | | | | | | |
| | | B6 | Distance between | hetter | all and mer | unt CL alarra | D6 | 4) 11m ² 1 1 1 | nehos foo hteres ri | ou Doft to ! | fordatalla | | | | |
| | | | | | | | | , | nches. See 'Mount El | | | 20.00 | | | |
| | | | | | | | | | ant./eqpt. of Carrier a | | | | | | |
| | | | Distan | ce from t | - | | | | ant./eqpt. of Carrier b | below. (N/A | h = 10 ft. | | | | |
| | | | Please enter additional infomation or comments below. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | - | | | | - | | | | | | | | | |
| | Tower Face Width at Mount Elev. (ft.): 14 Tower Leg Size or Pole Shaft Diameter at Mou For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting is 14 Tower Leg Size or Pole Shaft Diameter at Mou | | | | | | | | | n 1- | | 105 | | | |
| | | | | | | | | | | | | 10.5 8-Mar | | | |
| SECTOR B | SECTOR C | | | es, report | the weld siz | e from the n | nain stando | ff to the pla | ate bolting into the coll | lar mount. | | | | | |
| | SECTOR C | For T-Arm | s/Platforms on monopole | es, report | the weld siz | e from the n | nain stando Unknown'' | ff to the pla | ate bolting into the coll Mountin [Units are incl | lar mount. Ig Locations hes and dep | grees] | 8-Mar Photos c | | | |
| | | For T-Arm | s/Platforms on monopole | es, report | the weld siz | e from the n | nain stando Unknown" Coax | ff to the pla Antenna | ate bolting into the coll Mountin [Units are incl Vertical | lar mount. g Location: hes and dep Horiz. Offset "h" (Use "-" | grees] Antenna | 8-Mar | | | |
| FACE B | | For T-Arm | s/Platforms on monopole Enter antenr | es, report | the weld siz If not labe | e from the n | nain stando Unknown'' Coax Size and | ff to the pla Antenna Center- | Ate bolting into the coll Mountin [Units are inch Vertical Distances"b _{1a} , b _{2a} , | lar mount. g Locations hes and dep Horiz. Offset "h" (Use "-" if Ant. is | grees] Antenna Azimuth | 8-Mar Photos d antenna | | | |
| FACE B | | For T-Arm | s/Platforms on monopole Enter antenr Antenna Models if | es, report na model. Width | the weld siz If not labe Depth | e from the n led, enter " Height | nain stando Unknown" Coax | ff to the pla Antenna | ate bolting into the coll Mountin [Units are incl Vertical | lar mount. g Location: hes and dep Horiz. Offset "h" (Use "-" | grees] Antenna | 8-Mar Photos antenna Photo | | | |
| FACE B | | For T-Arm | s/Platforms on monopole Enter antenr Antenna Models if | es, report na model. Width | the weld siz If not labe Depth | e from the n led, enter " Height | nain stando Unknown'' Coax Size and | ff to the pla Antenna Center- line (Ft.) | Ate bolting into the coll Mountin [Units are inch Vertical Distances"b _{1a} , b _{2a} , | lar mount. g Locations hes and dep Horiz. Offset "h" (Use "-" if Ant. is | grees] Antenna Azimuth | 8-Mar Photos antenna Photo | | | |
| LEC B | LEG C | For T-Arm Subjects Su | s/Platforms on monopole Enter antenr Antenna Models if Known | es, report na model. Width | the weld siz If not labe Depth (in.) | led, enter " Height (in.) | unknown" Coax Size and Qty | ff to the pla Antenna Center- line (Ft.) | Mountin [Units are incl Vertical Distances"b _{1a} , b _{2a} , b _{3a} , b _{1b} " (Inches) | lar mount. g Locations hes and dep Horiz. Offset "h" (Use "-" if Ant. is | grees] Antenna Azimuth | 8-Mar Photos antenna Photo Numbe | | | |
| FACE B | LEG C | For T-Arm | s/Platforms on monopole Enter antenr Antenna Models if | width | the weld siz If not labe Depth | e from the n led, enter " Height | unknown" Coax Size and Qty | ff to the pla Antenna Center- line (Ft.) | Ate bolting into the coll Mountin [Units are inch Vertical Distances"b _{1a} , b _{2a} , | lar mount. ng Locations hes and dep Horiz. Offset "h" (Use "-" if Ant. is behind) | Antenna Azimuth (Degrees) | 8-Mar Photos antenna Photo | | | |
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| LEG B FACE B FACE B FACE B SECTOR A LEG Antas Antas Antas Antas Antas Antas Antas Antas | Antas Antes Antes Antes Antas | Antso | SPlatforms on monopole Enter antenr Antenna Models if Known LNX-6512DS-A1M UNKNOWN SBNHH-1D65B B13-RRH | width (in.) 11.00 11.00 11.00 | the weld siz | e from the n led, enter " Height (in.) 48.00 72.00 72.00 20.00 | unknown" Coax Size and Qty | ff to the pla Antenna Center- line (Ft.) 233.583 232.917 234.083 233.583 | Ate bolting into the coll Mountin [Units are incl Vertical Distances"b _{1a} , b _{2a} , b _{3a} , b _{1b} " (Inches) 26.00 36.00 20.00 26.00 | lar mount. Ig Locations hes and def Horiz. Offset "h" (Use "." if Ant. is behind) 10.00 12.00 9.00 10.00 | Antenna Azimuth (Degrees) 130.00 85.00 | 8-Mai Photos antenn Photo Numbe 282 282 286 286 | | | |
| LEG B FACE B | Antas Antes Antes Antes Antas | Antse Antse Antse Antse Antse Antse Antse Antse | SPlatforms on monopole Enter antenr Antenna Models if Known LNX-6512DS-A1M UNKNOWN SBNHH-1D65B B13-RRH | width (in.) 11.00 11.00 11.00 | the weld siz | e from the n led, enter " Height (in.) 48.00 72.00 72.00 20.00 | unknown" Coax Size and Qty | ff to the pla Antenna Center- line (Ft.) 233.583 232.917 234.083 233.583 | Ate bolting into the coll Mountin [Units are incl Vertical Distances"b _{1a} , b _{2a} , b _{3a} , b _{1b} " (Inches) 26.00 36.00 20.00 26.00 | lar mount. Ig Locations hes and def Horiz. Offset "h" (Use "." if Ant. is behind) 10.00 12.00 9.00 10.00 | Antenna Azimuth (Degrees) 130.00 85.00 | 8-Mar Photos antenna Photo Numbe 282 282 286 286 | | | |
| LEG B FACE B | Antas Antes Antes Antes Antas | Antse | SPlatforms on monopole Enter antenr Antenna Models if Known LNX-6512DS-A1M UNKNOWN SBNHH-1D65B B13-RRH | width (in.) 11.00 11.00 11.00 | the weld siz | e from the n led, enter " Height (in.) 48.00 72.00 72.00 20.00 | unknown" Coax Size and Qty | ff to the pla Antenna Center- line (Ft.) 233.583 232.917 234.083 233.583 | Ate bolting into the coll Mountin [Units are incl Vertical Distances"b _{1a} , b _{2a} , b _{3a} , b _{1b} " (Inches) 26.00 36.00 20.00 26.00 | lar mount. Ig Locations hes and def Horiz. Offset "h" (Use "." if Ant. is behind) 10.00 12.00 9.00 10.00 | Antenna Azimuth (Degrees) 130.00 85.00 | 8-Mar Photos antenna Photo Numbe 282 286 286 292 | | | |
| LEG B FACE B | Antas Antes Antes Antes Antas | Antse | SPlatforms on monopole Enter antenr Antenna Models if Known LNX-6512DS-A1M UNKNOWN SBNHH-1D65B B13-RRH | width (in.) 11.00 11.00 11.00 | the weld siz | e from the n led, enter " Height (in.) 48.00 72.00 72.00 20.00 | unknown" Coax Size and Qty | ff to the pla Antenna Center- line (Ft.) 233.583 232.917 234.083 233.583 | Ate bolting into the coll Mountin [Units are incl Vertical Distances"b _{1a} , b _{2a} , b _{3a} , b _{1b} " (Inches) 26.00 36.00 20.00 26.00 | lar mount. Ig Locations hes and def Horiz. Offset "h" (Use "." if Ant. is behind) 10.00 12.00 9.00 10.00 | Antenna Azimuth (Degrees) 130.00 85.00 | 8-Mar Photos antenn: Photo Numbe 282 282 286 286 | | | |
| LEG B FACE B | Antse | Antse | SPlatforms on monopole Enter antenr Antenna Models if Known LNX-6512DS-A1M UNKNOWN SBNHH-1D65B B13-RRH | width (in.) 11.00 11.00 11.00 | the weld siz | e from the n led, enter " Height (in.) 48.00 72.00 72.00 20.00 | unknown" Coax Size and Qty | ff to the pla Antenna Center- line (Ft.) 233.583 232.917 234.083 233.583 | Ate bolting into the coll Mountin [Units are incl Vertical Distances"b _{1a} , b _{2a} , b _{3a} , b _{1b} " (Inches) 26.00 36.00 20.00 26.00 | lar mount. Ig Locations hes and def Horiz. Offset "h" (Use "." if Ant. is behind) 10.00 12.00 9.00 10.00 | Antenna Azimuth (Degrees) 130.00 85.00 | 8-Mar Photos antenna Photo Numbe 282 282 286 286 | | | |

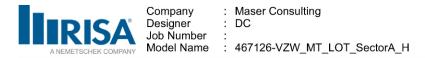
| Mou | nt Azir | nuth (Deg | ree) | Tower Leg Ar | imuth (Degree) | | | | | | Sector E | | | | | |
|-----------------|-----------|--------------|---|-----------------------------|---|--|----------------------------|----------------|--------------|----------------|----------|--------------------|----------------|---------------|----------------|-----|
| | | ch Sector | | - | ch Sector | Ant _{1a} | LNX-6512DS-A1M | 11.00 | 7.00 | 48.00 | | 233.583 | 26.00 | 10.00 | 140.00 | 16 |
| Sector A: | 60 | | g Leg A: | | Deg | Ant _{1b} | | | | | | | | | | |
| Sector B: | 90 | | | | Deg | Ant _{1c} | | | | | | | | | | |
| Sector C: | 320 | | | | 0 | Ant _{2a} | UNKNOWN | 11.00 | 4.00 | 72.00 | | 232.917 | 36.00 | 9.00 | 130.00 | 32 |
| Sector D: | | De | | | Deg | Ant _{2b} | | | | | | | | | | |
| | 60 | | - | cility Information | | Ant _{2c} | CONULL 1DCCD | 11.00 | 7.00 | 72.00 | | 224.092 | 20.00 | 9.00 | 85.00 | 62 |
| Location: | | Corrosion T | - | Sector A Good condition. | | Ant _{3a} Ant _{3b} | SBNHH-1D65B SBNHH-1D65B | 11.00 | 7.00 7.00 | 72.00 72.00 | | 234.083 234.083 | 20.00 | 9.00 | 85.00 85.00 | 5 |
| Climbing | | Access | | Climbing path was | unobstructed | Ant _{3b} | B13-RRH | 11.00 | 7.50 | 20.00 | | 234.085 | 26.00 | -7.00 | 83.00 | 77 |
| Facility | | Conditio | | Good condition. | anobstracted. | Ant _{3c} | B66A-RRH | 12.00 | 7.00 | 25.00 | | 233.417 | 28.00 | -6.00 | | 90 |
| | | conditio | | Sood condition | | Ant _{4b} | DODA-INIT | 12.00 | 7.00 | 25.00 | | 233.417 | 20.00 | -0.00 | | 50 |
| | | | | | | Ant _{4c} | | | | | | | | | | |
| | | | | | | Ant _{5a} | | | | | | | | | | |
| | | | | | | Ant _{sb} | | | | | | | | | | |
| | | | | | | Ant _{5c} | | | | | | | | | | |
| | | | | | | Ant on | | | | | | | | | | |
| | | | | | | Standoff Ant on | | | | | | | | | | |
| | | | | | | Standoff | | | | | | | | | | |
| Plaz | see ince | art a nhote | of the m | ount centerline meas | urement here | Ant on | RHSDC-6627-PF-48 | 15.00 | 9.00 | 18.00 | | | | | | |
| 1 icu | 150 11150 | circu prioco | or the m | oune centerine med. | urement here. | Tower Ant on | | | | | | | | | | |
| | | | | | | Tower | | | | | | | | | | |
| | | | | | | | | | | | Sector C | | | | | |
| | | | | | | Ant _{1a} | LNX-6512DS-A1M | 11.00 | 7.00 | 48.00 | | 233.083 | 32.00 | 10.00 | 335.00 | 131 |
| | | | | | | Ant _{1b} | | | | | | | | | | |
| | | | | | | Ant _{1c} | | | | | | | | | | |
| | | | | | | Ant _{2a} | UNKNOWN | 11.00 | 4.00 | 72.00 | | 232.917 | 36.00 | 9.00 | 320.00 | 134 |
| | | | | | | Ant _{2b} | | - | | | | | | | | |
| | | | | | | Ant _{2c} | | 11.00 | 7.00 | 70.00 | | 222.017 | 22.00 | 0.00 | 270.00 | 455 |
| 1 | a | а Ш | 111. | p. | | Ant _{3a} Ant _{3b} | SBNHH-1D65B B13-RRH | 11.00 11.00 | 7.00 5.00 | 72.00 20.00 | | 233.917 233.833 | 22.00 23.00 | 9.00 10.00 | 270.00 | 155 |
| Γ | 1 | | | | | Ant _{3b} | DIS-KKH | 11.00 | 5.00 | 20.00 | | 233.833 | 23.00 | 10.00 | | |
| | | | | | | Ant _{4a} | B66A-RRH | 12.00 | 7.00 | 25.00 | | 233.417 | 28.00 | 6.00 | | 278 |
| ٩, | | | ffii L | | NT | Ant _{4b} | | 12.00 | 7.00 | 25.00 | | 200.417 | 20.00 | 0.00 | | 270 |
| | | | | - | 1 | Ant _{4c} | | | | | | | | | | |
| Г | | | ШШг | | DISTRUCE FROM TOP OF MAIN PLATFORM MEMORER TO LOWEST THE OF ANT./EDFT. OF CARRIER ABOVE | | | | | | | | | | | |
| - | | | +++++ | | (N/A IF > 10 PT.) | Ant _{5b} | | | | | | | | | | |
| _ | | | | | Ļ | Ant _{Sc} | | | | | | | | | | |
| STING PLATFORM | <u></u> | 7 | 1110 | r 'e' | DISTRUCT FROM TOP OF MAN PLATFORM MEDIATE TO HECHEST TO OF ANT./EDPT. OF CARRIEN DELOW (N/A IF > 10 FT.) | Ant on | | | | | | | | | | |
| | n | | | THE OF COLUMN | | Standoff Ant on | | | | | | | | | | |
| ſ | 1 | ΠШ | 1111 | ר ר | | Standoff | | | | | | | | | | |
| | | | | | | Ant on | | | | | | | | | | |
| d | | = 677 | 94 H | ==== | | Tower Ant on | | | | <u> </u> | | | | | | |
| Ļ | لن | ᆔШ | 105 | 니 나니 | | Tower | | | | | | | | | | |
| - | | <u>F0R</u> (| LATEORMS | ~ | | | | | | | Sector D | | | 1 | | |
| |] | Π | Ē | - | | Ant _{1a} | | | | | | | | | | |
| 4 | | | | - | | Ant _{1b} | | | | | | | | | | |
| 4 | | | | <u> </u> | | Ant _{1c} | | | | | | | | | | |
| 5 | | Ч | ľ | T TP OF EQUIPME | <u>m</u> | Ant _{2a} | | | | | | | | | | |
| | | | | | | Ant _{2b} Ant _{2c} | | | | | | | | | | |
| Γ | 7 | | КП | | DISTANCE FROM TOP OF BOTTOM SUPPORT RAR, TO LOWEST TP O ANT./EOPT. OF CARREN ABOVE. (N/A IF > 10 FT.) | Ant _{2c} | | | | | | | | | | |
| - | - | | | | (N/A # > 10 FT.) | Ant _{3a} | | | | | | | | | | |
| | | | | <u>*</u> | | Ant _{3b} | | | | | | | | | | |
| -L _e | 1 | L L | 1 | L. | DETANCE FROM TOP OF BOTTOM SUPPORT RAL TO MODELT TO | | | | | | | | | | | |
| ING SECTOR FRM | N | | \leftarrow | - | DESTANCE FROM TOP OF BOTTOM SUPPORT RAE, TO HIGHEST TP (ANT_/ROPT, OF CARREN BELOW, (N/A IF > 10 FT.) | Ant _{4b} | | | | | | | | | | |
| ر م | 1 | rën. | 1 AL | TP OF EQUIPME | <u>271</u> | Ant _{4c} | | | | | | | | | | |
| | | | | | | Ant _{5a} | | | | | | | | | | |
| | | | P | | | Ant _{5b} | | | | | | | | | | |
| 4 | | ╸ | 71 | | | Ant _{5c} | | | | | | | | | | |
| _ | | | U ² | -0 | | Ant on Standoff | | | | | | | | | | |
| or T-Arms/ | Platfor | ms on mon | opoles, ree | cord the weld size from | n the main standoff | Ant on | | | | | | | | | | |
| | | | | lar. See below for refe | | Standoff | | | | | | | | | | |
| // | | \sim | | - | // | Ant on | | | | | | | | | | |
| T | | | | _ \ | \checkmark | Tower Ant on | | | | | | | | | | |
| Т | _ | | | | 7 | Tower | | | | | | | | | | |
| P | P | | The second se | T I | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | REPORT W | ELD SIZE FROM TO PLATE BOLTING LAR MOUNT. | | | | | | | | | | | |
| | | | 11 | INTE COLU | LAR MOUNT. | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |



| Maser Consulting SK - 1 DC 467126-VZW_MT_LOT_SectorA_H July 2, 2021 at 3:19 PM 467126-VZW_MT_LOT_SectorA_H 467146 VZW_MT_LOT_A H r34 | Envelope Only Solution | | |
|--|------------------------|--------------------------------|--|
| | | | |
| 46/126-VZW MI LOT A Hr3d | | 407 120-VZVV_WI1_LU1_SECIORA_H | JUIY 2, 2021 at 3:19 PM 467126-VZW_MT_LOT_A_H.r3d |

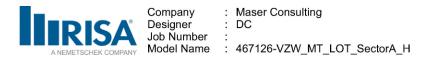






Basic Load Cases

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed | Area(Me | Surface(P |
|-----|-----------------------|----------|-----------|-----------|-----------|-----------|-----------|-------------|---------|-----------|
| 1 | Antenna D | None | | | | | 33 | | | |
| 2 | Antenna Di | None | | | | | 33 | | | |
| 3 | Antenna Wo (0 Deg) | None | | | | | 33 | | | |
| 4 | Antenna Wo (30 Deg) | None | | | | | 33 | | | |
| 5 | Antenna Wo (60 Deg) | None | | | | | 33 | | | |
| 6 | Antenna Wo (90 Deg) | None | | | | | 33 | | | |
| 7 | Antenna Wo (120 Deg) | None | | | | | 33 | | | |
| 8 | Antenna Wo (150 Deg) | None | | | | | 33 | | | |
| 9 | Antenna Wo (180 Deg) | None | | | | | 33 | | | |
| | Antenna Wo (210 Deg) | None | | | | | 33 | | | |
| 11 | Antenna Wo (240 Deg) | None | | | | | 33 | | | |
| 12 | Antenna Wo (270 Deg) | None | | | | | 33 | | | |
| 13 | Antenna Wo (300 Deg) | None | | | | | 33 | | | |
| 14 | Antenna Wo (330 Deg) | None | | | | | 33 | | | |
| 15 | Antenna Wi (0 Deg) | None | | | | | 33 | | | |
| 16 | Antenna Wi (30 Deg) | None | | | | | 33 | | | |
| 17 | Antenna Wi (60 Deg) | None | | | | | 33 | | | |
| 18 | Antenna Wi (90 Deg) | None | | | | | 33 | | | |
| 19 | Antenna Wi (120 Deg) | None | | | | | 33 | | | |
| 20 | Antenna Wi (150 Deg) | None | | | | | 33 | | | |
| 21 | Antenna Wi (180 Deg) | None | | | | | 33 | | | |
| 22 | Antenna Wi (210 Deg) | None | | | | | 33 | | | |
| 23 | Antenna Wi (240 Deg) | None | | | | | 33 | | | |
| 24 | Antenna Wi (270 Deg) | None | | | | | 33 | | | |
| 25 | Antenna Wi (300 Deg) | None | | | | | 33 | | | |
| 26 | Antenna Wi (330 Deg) | None | | | | | 33 | | | |
| 27 | Antenna Wm (0 Deg) | None | | | | | 33 | | | |
| 28 | Antenna Wm (30 Deg) | None | | | | | 33 | | | |
| 20 | Antenna Wm (60 Deg) | None | | | | | 33 | | | |
| 30 | Antenna Wm (00 Deg) | None | | | | | 33 | | | |
| | Antenna Wm (30 Deg) | None | | | | | 33 | | | |
| | Antenna Wm (120 Deg) | None | | | | | 33 | | | |
| | Antenna Wm (180 Deg) | None | | | | | 33 | | | |
| | Antenna Wm (100 Deg) | | | | | | 33 | | | |
| | Antenna Wm (240 Deg) | None | | | | | | | | |
| | Antenna Wm (240 Deg) | None | | | | | 33 | | | |
| | | None | | | | | 33 | | | |
| | Antenna Wm (300 Deg) | None | | | | | 33 | | | |
| | Antenna Wm (330 Deg) | None | | | | | 33 | | | |
| 39 | Structure D | None | | -1 | | | | 00 | | |
| 40 | Structure Di | None | | | | | | 30 | | |
| 41 | Structure Wo (0 Deg) | None | | | | | | 60 | | |
| | Structure Wo (30 Deg) | None | | | | | | 60 | | |
| 43 | Structure Wo (60 Deg) | None | | | | | | 60 | | |
| 44 | Structure Wo (90 Deg) | None | | | | | | 60 | | |
| 45 | Structure Wo (120 D | None | | | | | | 60 | | |
| | Structure Wo (150 D | None | | | | | | 60 | | |
| 47 | Structure Wo (180 D | None | | | | | | 60 | | |
| 48 | Structure Wo (210 D | None | | | | | | 60 | | |
| 49 | Structure Wo (240 D | None | | | | | | 60 | | |
| | Structure Wo (270 D | None | | | | | | 60 | | |
| 51 | Structure Wo (300 D | None | | | | | | 60 | | |
| 52 | Structure Wo (330 D | None | | | | | | 60 | | |
| 53 | Structure Wi (0 Deg) | None | | | | | | 60 | | |
| 54 | Structure Wi (30 Deg) | None | | | | | | 60 | | |
| 55 | Structure Wi (60 Deg) | None | | | | | | 60 | | |
| 56 | Structure Wi (90 Deg) | None | | | | | | 60 | | |
| DIC | SA-3D Version 17.0.4 | I/ / / / | | | | 1467106 1 | /7\A/ NAT | | 1 -2 -1 | Page 1 |



Basic Load Cases (Continued)

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

Load Combinations

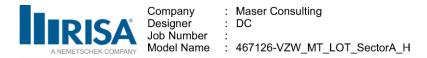
| | Description SolPD | .SRBLO | CFact. | BLC | Fact. | .BLC | Fact. | .BLC | Fact. | .BLC | Fact. |
|----|-------------------|--------|--------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|------|-------|------|-------|------|-------|
| 1 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 3 | 1 | 41 | 1 | | | | | | | | | | | | |
| 2 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 4 | 1 | 42 | 1 | | | | | | | | | | | | |
| 3 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 5 | 1 | 43 | 1 | | | | | | | | | | | | |
| 4 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 6 | 1 | 44 | 1 | | | | | | | | | | | | |
| 5 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 7 | 1 | 45 | 1 | | | | | | | | | | | | |
| 6 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 8 | 1 | 46 | 1 | | | | | | | | | | | | |
| 7 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 9 | 1 | 47 | 1 | | | | | | | | | | | | |
| 8 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 10 | 1 | 48 | 1 | | | | | | | | | | | | |
| 9 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 11 | 1 | 49 | 1 | | | | | | | | | | | | |
| 10 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 12 | 1 | 50 | 1 | | | | | | | | | | | | |
| 11 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 13 | 1 | 51 | 1 | | | | | | | | | | | | |
| 12 | 1.2D+1.0WoYes Y | 1 | 1.2 | 39 | 1.2 | 14 | 1 | 52 | 1 | | | | | | | | | | | | |
| 13 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 15 | 1 | 53 | 1 | | | | | | | | |
| 14 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 16 | 1 | 54 | 1 | | | | | | | | |
| 15 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 17 | 1 | 55 | 1 | | | | | | | | |
| 16 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 18 | 1 | 56 | 1 | | | | | | | | |
| 17 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 19 | 1 | 57 | 1 | | | | | | | | |
| 18 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 20 | 1 | 58 | 1 | | | | | | | | |
| 19 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 21 | 1 | 59 | 1 | | | | | | | | |
| 20 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 22 | 1 | 60 | 1 | | | | | | | | |
| 21 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 23 | 1 | 61 | 1 | | | | | | | | |
| 22 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 24 | 1 | 62 | 1 | | | | | | | | |
| 23 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 25 | 1 | 63 | 1 | | | | | | | | |
| 24 | 1.2D + 1.0DiYes Y | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 26 | 1 | 64 | 1 | | | | | | | | |
| 25 | 1.2D + 1.5L Yes Y | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 27 | 1 | 65 | 1 | | | | | | | | | | |
| 26 | 1.2D + 1.5L Yes Y | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 28 | 1 | 66 | 1 | | | | | | | | | | |
| 27 | 1.2D + 1.5L Yes Y | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 29 | 1 | 67 | 1 | | | | | | | | | | |
| 28 | 1.2D + 1.5L Yes Y | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 30 | 1 | 68 | 1 | | | | | | | | | | |

Load Combinations (Continued)

| 29 ^r | | | .OIE | | гасі | DLU | ract. | BLC | Fact | BLC | ⊢act. | .BLC | Fact. | BLC | Fact |
|-----------------|-------------------|---|------|---|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|-------|------|-------|-----|------|
| 23 | 1.2D + 1.5L Yes | Υ | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 31 | 1 | 69 | 1 | | | | | | | | | | |
| 30 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 32 | 1 | 70 | 1 | | | | | | | | | | |
| 31 1 | 1.2D + 1.5L Yes | Υ | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 33 | 1 | 71 | 1 | | | | | | | | | | |
| 32 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 34 | 1 | 72 | 1 | | | | | | | | | | |
| 33 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 35 | 1 | 73 | 1 | | | | | | | | | | |
| 34 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 36 | 1 | 74 | 1 | | | | | | | | | | |
| 35 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 37 | 1 | 75 | 1 | | | | | | | | | | |
| 36 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 38 | 1 | 76 | 1 | | | | | | | | | | |
| 37 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 27 | 1 | 65 | 1 | | | | | | | | | | |
| 38 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 28 | 1 | 66 | 1 | | | | | | | | | | |
| 39 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 29 | 1 | 67 | 1 | | | | | | | | | | |
| 40 [°] | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 30 | 1 | 68 | 1 | | | | | | | | | | |
| 41 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 31 | 1 | 69 | 1 | | | | | | | | | | |
| 42 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 32 | 1 | 70 | 1 | | | | | | | | | | |
| 43 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 33 | 1 | 71 | 1 | | | | | | | | | | |
| 44 ⁻ | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 34 | 1 | 72 | 1 | | | | | | | | | | |
| 45 [°] | 1.2D + 1.5L Yes | Υ | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 35 | 1 | 73 | 1 | | | | | | | | | | |
| 46 [°] | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 36 | 1 | 74 | 1 | | | | | | | | | | |
| 47 1 | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | 1.5 | 37 | 1 | 75 | 1 | | | | | | | | | | |
| 48 ⁻ | 1.2D + 1.5L Yes | Y | | 1 | 1.2 | 39 | 1.2 | 78 | | 38 | 1 | 76 | 1 | | | | | | | | | | |
| 49 [°] | 1.2D + 1.5Lv1 Yes | Y | | 1 | 1.2 | 39 | 1.2 | | 1.5 | | | | | | | | | | | | | | |
| 50 1 | 1.2D + 1.5Lv2 Yes | Y | | 1 | 1.2 | | 1.2 | | 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 | Y | | 1 | 1.2 | 39 | 1.2 | SX | | SY | 1 | SZ | -1 | | | | | | | | | | |
| 54 | 1.2D + 1.0Ev | Y | | 1 | 1.2 | 39 | 1.2 | | .5 | SY | 1 | | 866 | | | | | | | | | | |
| 55 | 1.2D + 1.0Ev | Y | | 1 | 1.2 | 39 | | | .866 | | 1 | SZ | | | | | | | | | | | |
| 56 | 1.2D + 1.0Ev | Y | | 1 | 1.2 | 39 | 1.2 | | 1 | SY | 1 | SZ | | | | | | | | | | | |
| 57 | 1.2D + 1.0Ev | Y | | 1 | 1.2 | 39 | | | .866 | | 1 | SZ | .5 | | | | | | | | | | |
| | 1.2D + 1.0Ev | Ŷ | | 1 | 1.2 | 39 | 1.2 | | | SY | 1 | | .866 | | | | | | | | | | |
| | 1.2D + 1.0Ev | Ŷ | | 1 | 1.2 | 39 | 1.2 | | | SY | 1 | SZ | 1 | | | | | | | | | | |
| | 1.2D + 1.0Ev | Ŷ | | 1 | 1.2 | 39 | | | 5 | | 1 | | .866 | | | | | | | | | | |
| | 1.2D + 1.0Ev | Ŷ | | 1 | 1.2 | 39 | | | 866 | | 1 | SZ | .5 | | | | | | | | | | |
| | 1.2D + 1.0Ev | Ŷ | | 1 | 1.2 | 39 | 1.2 | | | SY | 1 | SZ | | | | | | | | | | | |
| ~- | 1.2D + 1.0Ev | Ŷ | | 1 | 1.2 | | | | | | 1 | SZ | 5 | | | | | | | | | | |
| | 1.2D + 1.0Ev | Ŷ | | 1 | 1.2 | | | | 5 | | 1 | | 866 | | | | | | | | | | |

Joint Coordinates and Temperatures

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap |
|----|-------|-----------|----------|--------|----------|------------------|
| 1 | N1 | 0 | 0 | 0 | Ó | |
| 2 | N2 | 0 | 3.333333 | 0 | 0 | |
| 3 | N3 | 6 | 0 | 0 | 0 | |
| 4 | N4 | 6 | 3.333333 | 0 | 0 | |
| 5 | N5 | -6 | 0 | 0 | 0 | |
| 6 | N6 | -6 | 3.333333 | 0 | 0 | |
| 7 | N7 | 5.75 | 0 | 0 | 0 | |
| 8 | N8 | 5.75 | 3.333333 | 0 | 0 | |
| 9 | N9 | 3.75 | 0 | 0 | 0 | |
| 10 | N10 | 3.75 | 3.333333 | 0 | 0 | |
| 11 | N11 | -2.583333 | 0 | 0 | 0 | |
| 12 | N12 | -2.583333 | 3.333333 | 0 | 0 | |
| 13 | N13 | -5.583333 | 0 | 0 | 0 | |
| 14 | N14 | -5.583333 | 3.333333 | 0 | 0 | |
| 15 | N15 | 5.75 | 0 | .25 | 0 | |
| 16 | N16 | 5.75 | 3.333333 | .25 | 0 | |



Joint Coordinates and Temperatures (Continued)

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap |
|----|-------|-----------|------------|------------|----------|------------------|
| 17 | N17 | 3.75 | 0 | .25 | 0 | |
| 18 | N18 | 3.75 | 3.333333 | .25 | 0 | |
| 19 | N19 | -2.583333 | 0 | .25 | 0 | |
| 20 | N20 | -2.583333 | 3.333333 | .25 | 0 | |
| 21 | N21 | -5.583333 | 0 | .25 | 0 | |
| 22 | N22 | -5.583333 | 3.333333 | .25 | 0 | |
| 23 | N23 | 5.75 | 4.416667 | .25 | 0 | |
| 24 | N24 | 3.75 | 4.416667 | .25 | 0 | |
| 25 | N25 | -5.583333 | 4.416667 | .25 | 0 | |
| 26 | N26 | 5.75 | -0.583333 | .25 | 0 | |
| 20 | N27 | 3.75 | -1.583333 | .25 | 0 | |
| 28 | N28 | -5.583333 | -0.583333 | .25 | 0 | |
| 20 | N29 | -2.583333 | 4.416667 | .25 | 0 | |
| 30 | N30 | -2.583333 | -0.583333 | .25 | 0 | |
| 31 | N31 | 4.25 | 0.000000 | 0 | 0 | |
| 32 | N32 | 4.25 | 3.333333 | 0 | 0 | |
| 33 | N33 | -4.25 | 0 | 0 | 0 | |
| 34 | N34 | -4.25 | 3.333333 | 0 | 0 | |
| | | | | | | |
| 35 | N35 | 0 | 0 | -4.875 | 0 | |
| 36 | N36 | | 3.333333 | -4.875 | 0 | |
| 37 | N37 | 4.25 | 0 | 25 | 0 | |
| 38 | N38 | 4.25 | 3.333333 | 25 | 0 | |
| 39 | N39 | -4.25 | 0 3.333333 | 25 | 0 | |
| 40 | N40 | -4.25 | | 25 | 0 | |
| 41 | N41 | 0.150366 | 3.333333 | -4.714315 | 0 | |
| 42 | N42 | -0.150366 | 3.333333 | -4.714315 | 0 | |
| 43 | N43 | -0.150366 | 0 | -4.714315 | 0 | |
| 44 | N44 | 0.150366 | 0 | -4.714315 | 0 | |
| 45 | N45 | 0.291667 | 0 | -5.203152 | 0 | |
| 46 | N46 | 0.291667 | 3.333333 | -5.203152 | 0 | |
| 47 | N47 | 0.291667 | 4.666667 | -5.203152 | 0 | |
| 48 | N48 | 0.291667 | -1.333333 | -5.203152 | 0 | |
| 49 | N49 | 0.291667 | 4.166667 | -5.203152 | 0 | |
| 50 | N50 | 0.291667 | -0.833333 | -5.203152 | 0 | |
| 51 | N51 | 0 | 4.166667 | -5.708333 | 0 | |
| 52 | N52 | 0 | -0.833333 | -5.708333 | 0 | |
| 53 | N53 | 3.970617 | 3.333333 | -0.554235 | 0 | |
| 54 | N54 | -3.970617 | 3.333333 | -0.554235 | 0 | |
| 55 | N55 | -3.970617 | 0 | -0.554235 | 0 | |
| 56 | N56 | 3.970617 | 0 | -0.554235 | 0 | |
| 57 | N57 | 3.965303 | 2.916667 | -0.554235 | 0 | |
| 58 | N58 | -3.965303 | 2.916667 | -0.554235 | 0 | |
| 59 | N59 | -3.965303 | 0.416667 | -0.554235 | 0 | |
| 60 | N60 | 3.965303 | 0.416667 | -0.554235 | 0 | |
| 61 | N69 | -3.965303 | 0.916667 | -0.554235 | 0 | |
| 62 | N73 | -7.000372 | 0.916667 | -18.333333 | 0 | |
| 63 | N71 | 2.200183 | 3.333333 | -2.482157 | 0 | |
| 64 | N72 | -2.200183 | 3.333333 | -2.482157 | 0 | |
| 65 | N73A | -2.200183 | 0 | -2.482157 | 0 | |
| 66 | N74 | 2.200183 | 0 | -2.482157 | 0 | |
| 67 | N75 | 0.417164 | 3.333333 | -4.423784 | 0 | |
| 68 | N76 | -0.417164 | 3.333333 | -4.423784 | 0 | |
| 69 | N77 | -0.417164 | 0 | -4.423784 | 0 | |
| 70 | N78 | 0.417164 | 0 | -4.423784 | 0 | |

Hot Rolled Steel Section Sets

| | Label | Shape | Туре | Design List | Material | Design R | A [in2] | lyy [in4] | lzz [in4] | J [in4] |
|----|---------------------|----------|--------|--------------|-----------|----------|---------|-----------|-----------|---------|
| 1 | Antenna Pipe | PIPE 2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 2 | Face Horizontal | PIPE_2.5 | Column | Pipe | A53 Gr. B | Typical | 1.61 | 1.45 | 1.45 | 2.89 |
| 3 | Standoff Horizontal | PIPE 2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 4 | Standoff Vertical | 1.5x0.06 | Column | Pipe | A53 Gr. B | Typical | .271 | .07 | .07 | .141 |
| 5 | Standoff Diagonal | 1.5x0.06 | Column | Pipe | A53 Gr. B | Typical | .271 | .07 | .07 | .141 |
| 6 | Standoff Mast Pipe | PIPE_2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 7 | Mast Pipe | PIPE 4.0 | Column | Pipe | A53 Gr. B | Typical | 2.96 | 6.82 | 6.82 | 13.6 |
| 8 | Tie Back | PIPE 2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 9 | Standoff Plate | PL1/2X3 | Column | RECT | A36 Gr.36 | Typical | 1.5 | .031 | 1.125 | .112 |
| 10 | Back Angle | L4X3X6 | Column | Single Angle | A36 Gr.36 | Typical | 2.49 | 1.89 | 3.94 | .123 |

Hot Rolled Steel Properties

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

Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | | Туре | Design List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|-----------------|--------|-------------|-----------|--------------|
| 1 | M1 | N6 | N4 | | | Face Horizontal | Column | Pipe | A53 Gr. B | Typical |
| 2 | M2 | N5 | N3 | | | Face Horizontal | Column | Pipe | A53 Gr. B | Typical |
| 3 | M3 | N14 | N22 | | | RIGID | None | None | RIGID | Typical |
| 4 | M4 | N12 | N20 | | | RIGID | None | None | RIGID | Typical |
| 5 | M5 | N13 | N21 | | | RIGID | None | None | RIGID | Typical |
| 6 | M6 | N11 | N19 | | | RIGID | None | None | RIGID | Typical |
| 7 | M7 | N10 | N18 | | | RIGID | None | None | RIGID | Typical |
| 8 | M8 | N9 | N17 | | | RIGID | None | None | RIGID | Typical |
| 9 | M9 | N8 | N16 | | | RIGID | None | None | RIGID | Typical |
| 10 | M10 | N7 | N15 | | | RIGID | None | None | RIGID | Typical |
| 11 | MP4A | N25 | N28 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 12 | MP3A | N29 | N30 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 13 | MP2A | N24 | N27 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 14 | MP1A | N23 | N26 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 15 | M15 | N34 | N40 | | | RIGID | None | None | RIGID | Typical |
| 16 | M16 | N33 | N39 | | | RIGID | None | None | RIGID | Typical |
| 17 | M17 | N32 | N38 | | | RIGID | None | None | RIGID | Typical |
| 18 | M18 | N31 | N37 | | | RIGID | None | None | RIGID | Typical |
| 19 | M23 | N41 | N36 | | 90 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 20 | M24 | N42 | N36 | | 90 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 21 | M25 | N43 | N35 | | 90 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 22 | M26 | N44 | N35 | | 90 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 23 | M27 | N36 | N46 | | | RIGID | None | None | RIGID | Typical |
| 24 | M28 | N35 | N45 | | | RIGID | None | None | RIGID | Typical |
| 25 | M29 | N47 | N48 | | | Mast Pipe | Column | Pipe | A53 Gr. B | Typical |
| 26 | M30 | N49 | N51 | | | RIGID | None | None | RIGID | Typical |
| 27 | M31 | N50 | N52 | | | RIGID | None | None | RIGID | Typical |
| 28 | M32 | N38 | N41 | | | Standoff Horiz | Column | Pipe | A53 Gr. B | Typical |
| 29 | M33 | N40 | N42 | | | Standoff Horiz | Column | Pipe | A53 Gr. B | Typical |
| 30 | M34 | N39 | N43 | | | Standoff Horiz | Column | Pipe | A53 Gr. B | Typical |
| 31 | M35 | N37 | N44 | | | Standoff Horiz | Column | Pipe | A53 Gr. B | Typical |

RISA-3D Version 17.0.4 [\...\...\...\...\...\...\...\...\Rev 0\RISA\467126-VZW_MT_LOT_A_H.r3d] Page 5

Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Desian List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|-------------------|-----------|-------------|-----------|--------------|
| 32 | M36 | N54 | N58 | | 135 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 33 | M37 | N53 | N57 | | 230 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 34 | M38 | N60 | N56 | | 230 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 35 | M39 | N59 | N55 | | 135 | Standoff Plate | Column | RECT | A36 Gr.36 | Typical |
| 36 | M40 | N59 | N58 | | | Standoff Mast | Column | Pipe | A53 Gr. B | Typical |
| 37 | M41 | N60 | N57 | | | | 001011111 | Pipe | A53 Gr. B | |
| 38 | M42 | N75 | N74 | | | Standoff Diago | | Pipe | A53 Gr. B | Typical |
| 39 | M43 | N71 | N60 | | | Standoff Diago | | Pipe | A53 Gr. B | Typical |
| 40 | M44 | N72 | N59 | | | Standoff Diago | .Column | Pipe | A53 Gr. B | Typical |
| 41 | M45 | N76 | N73A | | | Standoff Diago | | Pipe | A53 Gr. B | Typical |
| 42 | M46 | N72 | N73A | | | Standoff Vertical | | Pipe | A53 Gr. B | Typical |
| 43 | M47 | N76 | N77 | | | Standoff Vertical | Column | Pipe | A53 Gr. B | Typical |
| 44 | M48 | N75 | N78 | | | Standoff Vertical | | Pipe | A53 Gr. B | Typical |
| 45 | M49 | N71 | N74 | | | Standoff Vertical | Column | Pipe | A53 Gr. B | |
| 46 | M50 | N69 | N73 | | | Tie Back | Column | Pipe | A53 Gr. B | Typical |

Member Advanced Data

| | | | | | 100 | T /0 C · | | | | |
|----|-------|-----------|-----------|--------------|--------------|------------------------|-----|------------------|----------|---------|
| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | | Defl RatAnalysis | Inactive | Seismic |
| 1 | M1 | | | | | | Yes | ** NA ** | | None |
| 2 | M2 | | | | | | Yes | ** NA ** | | None |
| 3 | M3 | | | | | | Yes | ** NA ** | | None |
| 4 | M4 | | | | | | Yes | ** NA ** | | None |
| 5 | M5 | | | | | | Yes | ** NA ** | | None |
| 6 | M6 | | | | | | Yes | ** NA ** | | None |
| 7 | M7 | | | | | | Yes | ** NA ** | | None |
| 8 | M8 | | | | | | Yes | ** NA ** | | None |
| 9 | M9 | | | | | | Yes | ** NA ** | | None |
| 10 | M10 | | | | | | Yes | ** NA ** | | None |
| 11 | MP4A | | | | | | Yes | ** NA ** | | None |
| 12 | MP3A | | | | | | Yes | ** NA ** | | None |
| 13 | MP2A | | | | | | Yes | ** NA ** | | None |
| 14 | MP1A | | | | | | Yes | ** NA ** | | None |
| 15 | M15 | | | | | | Yes | ** NA ** | | None |
| 16 | M16 | | | | | | Yes | ** NA ** | | None |
| 17 | M17 | | | | | | Yes | ** NA ** | | None |
| 18 | M18 | | | | | | Yes | ** NA ** | | None |
| 19 | M23 | | BenPIN | | | | Yes | ** NA ** | | None |
| 20 | M24 | | BenPIN | | | | Yes | ** NA ** | | None |
| 21 | M25 | | BenPIN | | | | Yes | ** NA ** | | None |
| 22 | M26 | | BenPIN | | | | Yes | ** NA ** | | None |
| 23 | M27 | | | | | | Yes | ** NA ** | | None |
| 24 | M28 | | | | | | Yes | ** NA ** | | None |
| 25 | M29 | | | | | | Yes | ** NA ** | | None |
| 26 | M30 | | | | | | Yes | ** NA ** | | None |
| 27 | M31 | | | | | | Yes | ** NA ** | | None |
| 28 | M32 | | | | | | Yes | ** NA ** | | None |
| 29 | M33 | | | | | | Yes | ** NA ** | | None |
| 30 | M34 | | | | | | Yes | ** NA ** | | None |
| 31 | M35 | | | | | | Yes | ** NA ** | | None |
| 32 | M36 | | 000000 | | | | Yes | ** NA ** | | None |
| 33 | M30 | | 000000 | | | | Yes | ** NA ** | | None |
| 34 | M38 | 00000X | 000000 | | | | Yes | ** NA ** | | None |
| 35 | M39 | 00000X | | | | | Yes | ** NA ** | | None |
| 36 | M40 | 00000 | | | | | Yes | ** NA ** | | |
| | | | | | | | | | | None |
| 37 | M41 | | | | | | Yes | ** NA ** | | None |

Member Advanced Data (Continued)

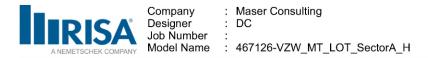
| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl RatAnalysis | . Inactive | Seismic |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|------------------|------------|---------|
| 38 | M42 | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 39 | M43 | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 40 | M44 | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 41 | M45 | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 42 | M46 | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 43 | M47 | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 44 | M48 | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 45 | M49 | BenPIN | BenPIN | | | | Yes | ** NA ** | | None |
| 46 | M50 | 0000X0 | | | | | Yes | ** NA ** | | None |

Member Point Loads (BLC 1 : Antenna D)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -43.55 | 2.25 |
| 2 | MP2A | My | 022 | 2.25 |
| 3 | MP2A | Mz | 0 | 2.25 |
| 4 | MP2A | Y | -43.55 | 4.25 |
| 5 | MP2A | My | 022 | 4.25 |
| 6 | MP2A | Mz | 0 | 4.25 |
| 7 | MP3A | Y | -31.65 | .25 |
| 8 | MP3A | My | 016 | .25 |
| 9 | MP3A | Mz | 021 | .25 |
| 10 | MP3A | Y | -31.65 | 4.75 |
| 11 | MP3A | My | 016 | 4.75 |
| 12 | MP3A | Mz | 021 | 4.75 |
| 13 | MP3A | Y | -31.65 | .25 |
| 14 | MP3A | My | 016 | .25 |
| 15 | MP3A | Mz | .021 | .25 |
| 16 | MP3A | Y | -31.65 | 4.75 |
| 17 | MP3A | My | 016 | 4.75 |
| 18 | MP3A | Mz | .021 | 4.75 |
| 19 | MP1A | Y | -13.9 | .5 |
| 20 | MP1A | My | 007 | .5 |
| 21 | MP1A | Mz | 0 | .5 |
| 22 | MP1A | Y | -13.9 | 4 |
| 23 | MP1A | My | 007 | 4 |
| 24 | MP1A | Mz | 0 | 4 |
| 25 | M32 | Y | -10.4 | 2 |
| 26 | M32 | My | 0 | 2 |
| 27 | M32 | Mz | 0 | 2 |
| 28 | MP4A | Y | -84.4 | 2.5 |
| 29 | MP4A | My | .042 | 2.5 |
| 30 | MP4A | Mz | 0 | 2.5 |
| 31 | MP3A | Y | -70.3 | 2.5 |
| 32 | MP3A | My | .03 | 2.5 |
| 33 | MP3A | Mz | .018 | 2.5 |

Member Point Loads (BLC 2 : Antenna Di)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -37.5 | 2.25 |
| 2 | MP2A | My | 019 | 2.25 |
| 3 | MP2A | Mz | 0 | 2.25 |
| 4 | MP2A | Y | -37.5 | 4.25 |
| 5 | MP2A | My | 019 | 4.25 |
| 6 | MP2A | Mz | 0 | 4.25 |
| 7 | MP3A | Y | -73.585 | .25 |

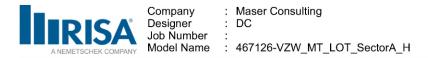


Member Point Loads (BLC 2 : Antenna Di) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 8 | MP3A | My | 037 | .25 |
| 9 | MP3A | Mz | 049 | .25 |
| 10 | MP3A | Y | -73.585 | 4.75 |
| 11 | MP3A | My | 037 | 4.75 |
| 12 | MP3A | Mz | 049 | 4.75 |
| 13 | MP3A | Y | -73.585 | .25 |
| 14 | MP3A | My | 037 | .25 |
| 15 | MP3A | Mz | .049 | .25 |
| 16 | MP3A | Y | -73.585 | 4.75 |
| 17 | MP3A | My | 037 | 4.75 |
| 18 | MP3A | Mz | .049 | 4.75 |
| 19 | MP1A | Y | -44.542 | .5 |
| 20 | MP1A | My | 022 | .5 |
| 21 | MP1A | Mz | 0 | .5 |
| 22 | MP1A | Y | -44.542 | 4 |
| 23 | MP1A | My | 022 | 4 |
| 24 | MP1A | Mz | 0 | 4 |
| 25 | M32 | Y | -11.392 | 2 |
| 26 | M32 | My | 0 | 2 |
| 27 | M32 | Mz | 0 | 2 |
| 28 | MP4A | Y | -47.315 | 2.5 |
| 29 | MP4A | My | .024 | 2.5 |
| 30 | MP4A | Mz | 0 | 2.5 |
| 31 | MP3A | Y | -42.568 | 2.5 |
| 32 | MP3A | My | .018 | 2.5 |
| 33 | MP3A | Mz | .011 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 0 | 2.25 |
| 2 | MP2A | Z | -91.192 | 2.25 |
| 3 | MP2A | Mx | 0 | 2.25 |
| 4 | MP2A | Х | 0 | 4.25 |
| 5 | MP2A | Z | -91.192 | 4.25 |
| 6 | MP2A | Mx | 0 | 4.25 |
| 7 | MP3A | Х | 0 | .25 |
| 8 | MP3A | Z | -176.757 | .25 |
| 9 | MP3A | Mx | .118 | .25 |
| 10 | MP3A | Х | 0 | 4.75 |
| 11 | MP3A | Z | -176.757 | 4.75 |
| 12 | MP3A | Mx | .118 | 4.75 |
| 13 | MP3A | Х | 0 | .25 |
| 14 | MP3A | Z | -176.757 | .25 |
| 15 | MP3A | Mx | 118 | .25 |
| 16 | MP3A | Х | 0 | 4.75 |
| 17 | MP3A | Z | -176.757 | 4.75 |
| 18 | MP3A | Mx | 118 | 4.75 |
| 19 | MP1A | Х | 0 | .5 |
| 20 | MP1A | Z | -98.759 | .5 |
| 21 | MP1A | Mx | 0 | .5 |
| 22 | MP1A | Х | 0 | 4 |
| 23 | MP1A | Z | -98.759 | 4 |
| 24 | MP1A | Mx | 0 | 4 |
| 25 | M32 | Х | 0 | 2 |
| 26 | M32 | Z | -13.252 | 2 |
| 27 | M32 | Mx | 0 | 2 |



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

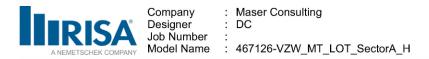
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 28 | MP4A | X | 0 | 2.5 |
| 29 | MP4A | Z | -72.565 | 2.5 |
| 30 | MP4A | Mx | 0 | 2.5 |
| 31 | MP3A | Х | 0 | 2.5 |
| 32 | MP3A | Z | -64.247 | 2.5 |
| 33 | MP3A | Mx | 016 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 38.66 | 2.25 |
| 2 | MP2A | Z | -66.96 | 2.25 |
| 3 | MP2A | Mx | 019 | 2.25 |
| 4 | MP2A | Х | 38.66 | 4.25 |
| 5 | MP2A | Z | -66.96 | 4.25 |
| 6 | MP2A | Mx | 019 | 4.25 |
| 7 | MP3A | Х | 80.795 | .25 |
| 8 | MP3A | Z | -139.942 | .25 |
| 9 | MP3A | Mx | .053 | .25 |
| 10 | MP3A | Х | 80.795 | 4.75 |
| 11 | MP3A | Z | -139.942 | 4.75 |
| 12 | MP3A | Mx | .053 | 4.75 |
| 13 | MP3A | Х | 80.795 | .25 |
| 14 | MP3A | Z | -139.942 | .25 |
| 15 | MP3A | Mx | 134 | .25 |
| 16 | MP3A | Х | 80.795 | 4.75 |
| 17 | MP3A | Z | -139.942 | 4.75 |
| 18 | MP3A | Mx | 134 | 4.75 |
| 19 | MP1A | Х | 45.111 | .5 |
| 20 | MP1A | Z | -78.134 | .5 |
| 21 | MP1A | Mx | 023 | .5 |
| 22 | MP1A | Х | 45.111 | 4 |
| 23 | MP1A | Z | -78.134 | 4 |
| 24 | MP1A | Mx | 023 | 4 |
| 25 | M32 | Х | 5.52 | 2 |
| 26 | M32 | Z | -9.561 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | X | 33.275 | 2.5 |
| 29 | MP4A | Z | -57.635 | 2.5 |
| 30 | MP4A | Mx | .017 | 2.5 |
| 31 | MP3A | X | 36.283 | 2.5 |
| 32 | MP3A | Z | -62.844 | 2.5 |
| 33 | MP3A | Mx | 0 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 42.932 | 2.25 |
| 2 | MP2A | Z | -24.787 | 2.25 |
| 3 | MP2A | Mx | 021 | 2.25 |
| 4 | MP2A | Х | 42.932 | 4.25 |
| 5 | MP2A | Z | -24.787 | 4.25 |
| 6 | MP2A | Mx | 021 | 4.25 |
| 7 | MP3A | X | 113.673 | .25 |
| 8 | MP3A | Z | -65.629 | .25 |
| 9 | MP3A | Mx | 013 | .25 |
| 10 | MP3A | X | 113.673 | 4.75 |
| 11 | MP3A | Z | -65.629 | 4.75 |

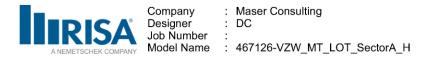


Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 12 | MP3A | Mx | 013 | 4.75 |
| 13 | MP3A | Х | 113.673 | .25 |
| 14 | MP3A | Z | -65.629 | .25 |
| 15 | MP3A | Mx | 101 | .25 |
| 16 | MP3A | Х | 113.673 | 4.75 |
| 17 | MP3A | Z | -65.629 | 4.75 |
| 18 | MP3A | Mx | 101 | 4.75 |
| 19 | MP1A | Х | 63.346 | .5 |
| 20 | MP1A | Z | -36.573 | .5 |
| 21 | MP1A | Mx | 032 | .5 |
| 22 | MP1A | Х | 63.346 | 4 |
| 23 | MP1A | Z | -36.573 | 4 |
| 24 | MP1A | Mx | 032 | 4 |
| 25 | M32 | Х | 8.603 | 2 |
| 26 | M32 | Z | -4.967 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 47.217 | 2.5 |
| 29 | MP4A | Z | -27.261 | 2.5 |
| 30 | MP4A | Mx | .024 | 2.5 |
| 31 | MP3A | Х | 55.639 | 2.5 |
| 32 | MP3A | Z | -32.123 | 2.5 |
| 33 | MP3A | Mx | .016 | 2.5 |

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

| 1 | LADOA | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|-------|-----------|--------------------|----------------|
| | MP2A | Х | 35.701 | 2.25 |
| 2 | MP2A | Z | 0 | 2.25 |
| 3 | MP2A | Mx | 018 | 2.25 |
| 4 | MP2A | Х | 35.701 | 4.25 |
| 5 | MP2A | Z | 0 | 4.25 |
| 6 | MP2A | Mx | 018 | 4.25 |
| 7 | MP3A | Х | 116.092 | .25 |
| 8 | MP3A | Z | 0 | .25 |
| 9 | MP3A | Mx | 058 | .25 |
| 10 | MP3A | Х | 116.092 | 4.75 |
| 11 | MP3A | Z | 0 | 4.75 |
| 12 | MP3A | Mx | 058 | 4.75 |
| 13 | MP3A | Х | 116.092 | .25 |
| 14 | MP3A | Z | 0 | .25 |
| 15 | MP3A | Mx | 058 | .25 |
| 16 | MP3A | Х | 116.092 | 4.75 |
| 17 | MP3A | Z | 0 | 4.75 |
| 18 | MP3A | Mx | 058 | 4.75 |
| 19 | MP1A | Х | 64.608 | .5 |
| 20 | MP1A | Z | 0 | .5 |
| 21 | MP1A | Mx | 032 | .5 |
| 22 | MP1A | Х | 64.608 | 4 |
| 23 | MP1A | Z | 0 | 4 |
| 24 | MP1A | Mx | 032 | 4 |
| 25 | M32 | Х | 11.04 | 2 |
| 26 | M32 | Z | 0 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 48.506 | 2.5 |
| 29 | MP4A | Z | 0 | 2.5 |
| 30 | MP4A | Mx | .024 | 2.5 |
| 31 | MP3A | Х | 47.609 | 2.5 |



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

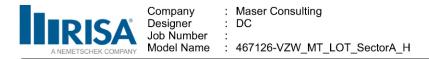
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 32 | MP3A | Z | 0 | 2.5 |
| 33 | MP3A | Mx | .021 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 42.932 | 2.25 |
| 2 | MP2A | Z | 24.787 | 2.25 |
| 3 | MP2A | Mx | 021 | 2.25 |
| 4 | MP2A | X | 42.932 | 4.25 |
| 5 | MP2A | Z | 24.787 | 4.25 |
| 6 | MP2A | Mx | 021 | 4.25 |
| 7 | MP3A | X | 113.673 | .25 |
| 8 | MP3A | Z | 65.629 | .25 |
| 9 | MP3A | Mx | 101 | .25 |
| 10 | MP3A | X | 113.673 | 4.75 |
| 11 | MP3A | Z | 65.629 | 4.75 |
| 12 | MP3A | Mx | 101 | 4.75 |
| 13 | MP3A | X | 113.673 | .25 |
| 14 | MP3A | Z | 65.629 | .25 |
| 15 | MP3A | Mx | 013 | .25 |
| 16 | MP3A | X | 113.673 | 4.75 |
| 17 | MP3A | Z | 65.629 | 4.75 |
| 18 | MP3A | Mx | 013 | 4.75 |
| 19 | MP1A | X | 63.346 | .5 |
| 20 | MP1A | Z | 36.573 | .5 |
| 21 | MP1A | Mx | 032 | .5 |
| 22 | MP1A | X | 63.346 | 4 |
| 23 | MP1A | Z | 36.573 | 4 |
| 24 | MP1A | Mx | 032 | 4 |
| 25 | M32 | X | 11.477 | 2 |
| 26 | M32 | Z | 6.626 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | X | 47.217 | 2.5 |
| 29 | MP4A | Z | 27.261 | 2.5 |
| 30 | MP4A | Mx | .024 | 2.5 |
| 31 | MP3A | X | 34.026 | 2.5 |
| 32 | MP3A | Z | 19.645 | 2.5 |
| 33 | MP3A | Mx | .02 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 38.66 | 2.25 |
| 2 | MP2A | Z | 66.96 | 2.25 |
| 3 | MP2A | Mx | 019 | 2.25 |
| 4 | MP2A | Х | 38.66 | 4.25 |
| 5 | MP2A | Z | 66.96 | 4.25 |
| 6 | MP2A | Mx | 019 | 4.25 |
| 7 | MP3A | Х | 80.795 | .25 |
| 8 | MP3A | Z | 139.942 | .25 |
| 9 | MP3A | Mx | 134 | .25 |
| 10 | MP3A | Х | 80.795 | 4.75 |
| 11 | MP3A | Z | 139.942 | 4.75 |
| 12 | MP3A | Mx | 134 | 4.75 |
| 13 | MP3A | Х | 80.795 | .25 |
| 14 | MP3A | Z | 139.942 | .25 |
| 15 | MP3A | Mx | .053 | .25 |

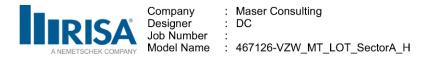


Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 16 | MP3A | Х | 80.795 | 4.75 |
| 17 | MP3A | Z | 139.942 | 4.75 |
| 18 | MP3A | Mx | .053 | 4.75 |
| 19 | MP1A | Х | 45.111 | .5 |
| 20 | MP1A | Z | 78.134 | .5 |
| 21 | MP1A | Mx | 023 | .5 |
| 22 | MP1A | Х | 45.111 | 4 |
| 23 | MP1A | Z | 78.134 | 4 |
| 24 | MP1A | Mx | 023 | 4 |
| 25 | M32 | Х | 7.179 | 2 |
| 26 | M32 | Z | 12.434 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 33.275 | 2.5 |
| 29 | MP4A | Z | 57.635 | 2.5 |
| 30 | MP4A | Mx | .017 | 2.5 |
| 31 | MP3A | Х | 23.804 | 2.5 |
| 32 | MP3A | Z | 41.231 | 2.5 |
| 33 | MP3A | Mx | .021 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 0 | 2.25 |
| 2 | MP2A | Z | 91.192 | 2.25 |
| 3 | MP2A | Mx | 0 | 2.25 |
| 4 | MP2A | Х | 0 | 4.25 |
| 5 | MP2A | Z | 91.192 | 4.25 |
| 6 | MP2A | Mx | 0 | 4.25 |
| 7 | MP3A | Х | 0 | .25 |
| 8 | MP3A | Z | 176.757 | .25 |
| 9 | MP3A | Mx | 118 | .25 |
| 10 | MP3A | Х | 0 | 4.75 |
| 11 | MP3A | Z | 176.757 | 4.75 |
| 12 | MP3A | Mx | 118 | 4.75 |
| 13 | MP3A | Х | 0 | .25 |
| 14 | MP3A | Z | 176.757 | .25 |
| 15 | MP3A | Mx | .118 | .25 |
| 16 | MP3A | Х | 0 | 4.75 |
| 17 | MP3A | Z | 176.757 | 4.75 |
| 18 | MP3A | Mx | .118 | 4.75 |
| 19 | MP1A | Х | 0 | .5 |
| 20 | MP1A | Z | 98.759 | .5 |
| 21 | MP1A | Mx | 0 | .5 |
| 22 | MP1A | Х | 0 | 4 |
| 23 | MP1A | Z | 98.759 | 4 |
| 24 | MP1A | Mx | 0 | 4 |
| 25 | M32 | Х | 0 | 2 |
| 26 | M32 | Z | 13.252 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | X | 0 | 2.5 |
| 29 | MP4A | Z | 72.565 | 2.5 |
| 30 | MP4A | Mx | 0 | 2.5 |
| 31 | MP3A | X | 0 | 2.5 |
| 32 | MP3A | Z | 64.247 | 2.5 |
| 33 | MP3A | Mx | .016 | 2.5 |
| | | | | |

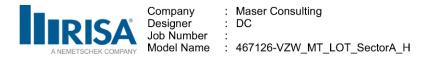


Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -38.66 | 2.25 |
| 2 | MP2A | Z | 66.96 | 2.25 |
| 3 | MP2A | Mx | .019 | 2.25 |
| 4 | MP2A | Х | -38.66 | 4.25 |
| 5 | MP2A | Z | 66.96 | 4.25 |
| 6 | MP2A | Mx | .019 | 4.25 |
| 7 | MP3A | Х | -80.795 | .25 |
| 8 | MP3A | Z | 139.942 | .25 |
| 9 | MP3A | Mx | 053 | .25 |
| 10 | MP3A | Х | -80.795 | 4.75 |
| 11 | MP3A | Z | 139.942 | 4.75 |
| 12 | MP3A | Mx | 053 | 4.75 |
| 13 | MP3A | Х | -80.795 | .25 |
| 14 | MP3A | Z | 139.942 | .25 |
| 15 | MP3A | Mx | .134 | .25 |
| 16 | MP3A | Х | -80.795 | 4.75 |
| 17 | MP3A | Z | 139.942 | 4.75 |
| 18 | MP3A | Mx | .134 | 4.75 |
| 19 | MP1A | Х | -45.111 | .5 |
| 20 | MP1A | Z | 78.134 | .5 |
| 21 | MP1A | Mx | .023 | .5 |
| 22 | MP1A | Х | -45.111 | 4 |
| 23 | MP1A | Z | 78.134 | 4 |
| 24 | MP1A | Mx | .023 | 4 |
| 25 | M32 | Х | -5.52 | 2 |
| 26 | M32 | Z | 9.561 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -33.275 | 2.5 |
| 29 | MP4A | Z | 57.635 | 2.5 |
| 30 | MP4A | Mx | 017 | 2.5 |
| 31 | MP3A | Х | -36.283 | 2.5 |
| 32 | MP3A | Z | 62.844 | 2.5 |
| 33 | MP3A | Mx | 0 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -42.932 | 2.25 |
| 2 | MP2A | Z | 24.787 | 2.25 |
| 3 | MP2A | Mx | .021 | 2.25 |
| 4 | MP2A | Х | -42.932 | 4.25 |
| 5 | MP2A | Z | 24.787 | 4.25 |
| 6 | MP2A | Mx | .021 | 4.25 |
| 7 | MP3A | Х | -113.673 | .25 |
| 8 | MP3A | Z | 65.629 | .25 |
| 9 | MP3A | Mx | .013 | .25 |
| 10 | MP3A | Х | -113.673 | 4.75 |
| 11 | MP3A | Z | 65.629 | 4.75 |
| 12 | MP3A | Mx | .013 | 4.75 |
| 13 | MP3A | Х | -113.673 | .25 |
| 14 | MP3A | Z | 65.629 | .25 |
| 15 | MP3A | Mx | .101 | .25 |
| 16 | MP3A | Х | -113.673 | 4.75 |
| 17 | MP3A | Z | 65.629 | 4.75 |
| 18 | MP3A | Mx | .101 | 4.75 |
| 19 | MP1A | Х | -63.346 | .5 |
| 20 | MP1A | Z | 36.573 | .5 |



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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 21 | MP1A | Mx | .032 | .5 |
| 22 | MP1A | Х | -63.346 | 4 |
| 23 | MP1A | Z | 36.573 | 4 |
| 24 | MP1A | Mx | .032 | 4 |
| 25 | M32 | Х | -8.603 | 2 |
| 26 | M32 | Z | 4.967 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -47.217 | 2.5 |
| 29 | MP4A | Z | 27.261 | 2.5 |
| 30 | MP4A | Mx | 024 | 2.5 |
| 31 | MP3A | Х | -55.639 | 2.5 |
| 32 | MP3A | Z | 32.123 | 2.5 |
| 33 | MP3A | Mx | 016 | 2.5 |

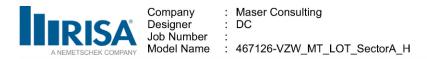
Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -35.701 | 2.25 |
| 2 | MP2A | Z | 0 | 2.25 |
| 3 | MP2A | Mx | .018 | 2.25 |
| 4 | MP2A | Х | -35.701 | 4.25 |
| 5 | MP2A | Z | 0 | 4.25 |
| 6 | MP2A | Mx | .018 | 4.25 |
| 7 | MP3A | Х | -116.092 | .25 |
| 8 | MP3A | Z | 0 | .25 |
| 9 | MP3A | Mx | .058 | .25 |
| 10 | MP3A | Х | -116.092 | 4.75 |
| 11 | MP3A | Z | 0 | 4.75 |
| 12 | MP3A | Mx | .058 | 4.75 |
| 13 | MP3A | Х | -116.092 | .25 |
| 14 | MP3A | Z | 0 | .25 |
| 15 | MP3A | Mx | .058 | .25 |
| 16 | MP3A | Х | -116.092 | 4.75 |
| 17 | MP3A | Z | 0 | 4.75 |
| 18 | MP3A | Mx | .058 | 4.75 |
| 19 | MP1A | Х | -64.608 | .5 |
| 20 | MP1A | Z | 0 | .5 |
| 21 | MP1A | Mx | .032 | .5 |
| 22 | MP1A | Х | -64.608 | 4 |
| 23 | MP1A | Z | 0 | 4 |
| 24 | MP1A | Mx | .032 | 4 |
| 25 | M32 | Х | -11.04 | 2 |
| 26 | M32 | Z | 0 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -48.506 | 2.5 |
| 29 | MP4A | Z | 0 | 2.5 |
| 30 | MP4A | Mx | 024 | 2.5 |
| 31 | MP3A | Х | -47.609 | 2.5 |
| 32 | MP3A | Z | 0 | 2.5 |
| 33 | MP3A | Mx | 021 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -42.932 | 2.25 |
| 2 | MP2A | Z | -24.787 | 2.25 |
| 3 | MP2A | Mx | .021 | 2.25 |
| 4 | MP2A | Х | -42.932 | 4.25 |

RISA-3D Version 17.0.4 [\...\...\...\...\...\...\...\...\Rev 0\RISA\467126-VZW_MT_LOT_A_H.r3d] Page 14

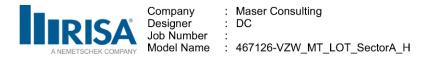


Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 5 | MP2A | Z | -24.787 | 4.25 |
| 6 | MP2A | Mx | .021 | 4.25 |
| 7 | MP3A | Х | -113.673 | .25 |
| 8 | MP3A | Z | -65.629 | .25 |
| 9 | MP3A | Mx | .101 | .25 |
| 10 | MP3A | Х | -113.673 | 4.75 |
| 11 | MP3A | Z | -65.629 | 4.75 |
| 12 | MP3A | Mx | .101 | 4.75 |
| 13 | MP3A | Х | -113.673 | .25 |
| 14 | MP3A | Z | -65.629 | .25 |
| 15 | MP3A | Mx | .013 | .25 |
| 16 | MP3A | Х | -113.673 | 4.75 |
| 17 | MP3A | Z | -65.629 | 4.75 |
| 18 | MP3A | Mx | .013 | 4.75 |
| 19 | MP1A | Х | -63.346 | .5 |
| 20 | MP1A | Z | -36.573 | .5 |
| 21 | MP1A | Mx | .032 | .5 |
| 22 | MP1A | Х | -63.346 | 4 |
| 23 | MP1A | Z | -36.573 | 4 |
| 24 | MP1A | Mx | .032 | 4 |
| 25 | M32 | Х | -11.477 | 2 |
| 26 | M32 | Z | -6.626 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -47.217 | 2.5 |
| 29 | MP4A | Z | -27.261 | 2.5 |
| 30 | MP4A | Mx | 024 | 2.5 |
| 31 | MP3A | Х | -34.026 | 2.5 |
| 32 | MP3A | Z | -19.645 | 2.5 |
| 33 | MP3A | Mx | 02 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -38.66 | 2.25 |
| 2 | MP2A | Z | -66.96 | 2.25 |
| 3 | MP2A | Mx | .019 | 2.25 |
| 4 | MP2A | Х | -38.66 | 4.25 |
| 5 | MP2A | Z | -66.96 | 4.25 |
| 6 | MP2A | Mx | .019 | 4.25 |
| 7 | MP3A | Х | -80.795 | .25 |
| 8 | MP3A | Z | -139.942 | .25 |
| 9 | MP3A | Mx | .134 | .25 |
| 10 | MP3A | Х | -80.795 | 4.75 |
| 11 | MP3A | Z | -139.942 | 4.75 |
| 12 | MP3A | Mx | .134 | 4.75 |
| 13 | MP3A | Х | -80.795 | .25 |
| 14 | MP3A | Z | -139.942 | .25 |
| 15 | MP3A | Mx | 053 | .25 |
| 16 | MP3A | Х | -80.795 | 4.75 |
| 17 | MP3A | Z | -139.942 | 4.75 |
| 18 | MP3A | Mx | 053 | 4.75 |
| 19 | MP1A | Х | -45.111 | .5 |
| 20 | MP1A | Z | -78.134 | .5 |
| 21 | MP1A | Mx | .023 | .5 |
| 22 | MP1A | Х | -45.111 | 4 |
| 23 | MP1A | Z | -78.134 | 4 |
| 24 | MP1A | Mx | .023 | 4 |



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

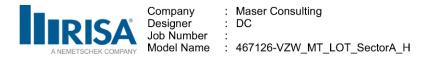
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | M32 | Х | -7.179 | 2 |
| 26 | M32 | Z | -12.434 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -33.275 | 2.5 |
| 29 | MP4A | Z | -57.635 | 2.5 |
| 30 | MP4A | Mx | 017 | 2.5 |
| 31 | MP3A | Х | -23.804 | 2.5 |
| 32 | MP3A | Z | -41.231 | 2.5 |
| 33 | MP3A | Mx | 021 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 0 | 2.25 |
| 2 | MP2A | Z | -17.689 | 2.25 |
| 3 | MP2A | Mx | 0 | 2.25 |
| 4 | MP2A | Х | 0 | 4.25 |
| 5 | MP2A | Z | -17.689 | 4.25 |
| 6 | MP2A | Mx | 0 | 4.25 |
| 7 | MP3A | Х | 0 | .25 |
| 8 | MP3A | Z | -33.216 | .25 |
| 9 | MP3A | Mx | .022 | .25 |
| 10 | MP3A | Х | 0 | 4.75 |
| 11 | MP3A | Z | -33.216 | 4.75 |
| 12 | MP3A | Mx | .022 | 4.75 |
| 13 | MP3A | Х | 0 | .25 |
| 14 | MP3A | Z | -33.216 | .25 |
| 15 | MP3A | Mx | 022 | .25 |
| 16 | MP3A | Х | 0 | 4.75 |
| 17 | MP3A | Z | -33.216 | 4.75 |
| 18 | MP3A | Mx | 022 | 4.75 |
| 19 | MP1A | Х | 0 | .5 |
| 20 | MP1A | Z | -19.085 | .5 |
| 21 | MP1A | Mx | 0 | .5 |
| 22 | MP1A | Х | 0 | 4 |
| 23 | MP1A | Z | -19.085 | 4 |
| 24 | MP1A | Mx | 0 | 4 |
| 25 | M32 | Х | 0 | 2 |
| 26 | M32 | Z | -3.436 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 0 | 2.5 |
| 29 | MP4A | Z | -14.948 | 2.5 |
| 30 | MP4A | Mx | 0 | 2.5 |
| 31 | MP3A | Х | 0 | 2.5 |
| 32 | MP3A | Z | -13.385 | 2.5 |
| 33 | MP3A | Mx | 003 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 7.579 | 2.25 |
| 2 | MP2A | Z | -13.128 | 2.25 |
| 3 | MP2A | Mx | 004 | 2.25 |
| 4 | MP2A | X | 7.579 | 4.25 |
| 5 | MP2A | Z | -13.128 | 4.25 |
| 6 | MP2A | Mx | 004 | 4.25 |
| 7 | MP3A | Х | 15.293 | .25 |
| 8 | MP3A | Z | -26.489 | .25 |

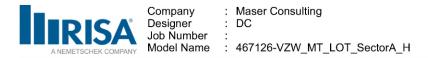


Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 9 | MP3A | Mx | .01 | .25 |
| 10 | MP3A | Х | 15.293 | 4.75 |
| 11 | MP3A | Z | -26.489 | 4.75 |
| 12 | MP3A | Mx | .01 | 4.75 |
| 13 | MP3A | Х | 15.293 | .25 |
| 14 | MP3A | Z | -26.489 | .25 |
| 15 | MP3A | Mx | 025 | .25 |
| 16 | MP3A | Х | 15.293 | 4.75 |
| 17 | MP3A | Z | -26.489 | 4.75 |
| 18 | MP3A | Mx | 025 | 4.75 |
| 19 | MP1A | Х | 8.779 | .5 |
| 20 | MP1A | Z | -15.205 | .5 |
| 21 | MP1A | Mx | 004 | .5 |
| 22 | MP1A | Х | 8.779 | 4 |
| 23 | MP1A | Z | -15.205 | 4 |
| 24 | MP1A | Mx | 004 | 4 |
| 25 | M32 | Х | 1.491 | 2 |
| 26 | M32 | Z | -2.583 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 6.908 | 2.5 |
| 29 | MP4A | Z | -11.964 | 2.5 |
| 30 | MP4A | Mx | .003 | 2.5 |
| 31 | MP3A | Х | 7.474 | 2.5 |
| 32 | MP3A | Z | -12.945 | 2.5 |
| 33 | MP3A | Mx | 0 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 8.744 | 2.25 |
| 2 | MP2A | Z | -5.048 | 2.25 |
| 3 | MP2A | Mx | 004 | 2.25 |
| 4 | MP2A | Х | 8.744 | 4.25 |
| 5 | MP2A | Z | -5.048 | 4.25 |
| 6 | MP2A | Mx | 004 | 4.25 |
| 7 | MP3A | Х | 21.934 | .25 |
| 8 | MP3A | Z | -12.664 | .25 |
| 9 | MP3A | Mx | 003 | .25 |
| 10 | MP3A | Х | 21.934 | 4.75 |
| 11 | MP3A | Z | -12.664 | 4.75 |
| 12 | MP3A | Mx | 003 | 4.75 |
| 13 | MP3A | Х | 21.934 | .25 |
| 14 | MP3A | Z | -12.664 | .25 |
| 15 | MP3A | Mx | 019 | .25 |
| 16 | MP3A | Х | 21.934 | 4.75 |
| 17 | MP3A | Z | -12.664 | 4.75 |
| 18 | MP3A | Mx | 019 | 4.75 |
| 19 | MP1A | Х | 12.559 | .5 |
| 20 | MP1A | Z | -7.251 | .5 |
| 21 | MP1A | Mx | 006 | .5 |
| 22 | MP1A | Х | 12.559 | 4 |
| 23 | MP1A | Z | -7.251 | 4 |
| 24 | MP1A | Mx | 006 | 4 |
| 25 | M32 | Х | 2.387 | 2 |
| 26 | M32 | Z | -1.378 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 10.003 | 2.5 |



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

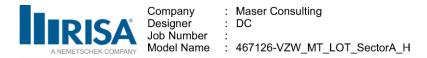
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP4A | Z | -5.775 | 2.5 |
| 30 | MP4A | Mx | .005 | 2.5 |
| 31 | MP3A | Х | 11.592 | 2.5 |
| 32 | MP3A | Z | -6.692 | 2.5 |
| 33 | MP3A | Mx | .003 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 7.565 | 2.25 |
| 2 | MP2A | Z | 0 | 2.25 |
| 3 | MP2A | Mx | 004 | 2.25 |
| 4 | MP2A | Х | 7.565 | 4.25 |
| 5 | MP2A | Z | 0 | 4.25 |
| 6 | MP2A | Mx | 004 | 4.25 |
| 7 | MP3A | Х | 22.698 | .25 |
| 8 | MP3A | Z | 0 | .25 |
| 9 | MP3A | Mx | 011 | .25 |
| 10 | MP3A | Х | 22.698 | 4.75 |
| 11 | MP3A | Z | 0 | 4.75 |
| 12 | MP3A | Mx | 011 | 4.75 |
| 13 | MP3A | Х | 22.698 | .25 |
| 14 | MP3A | Z | 0 | .25 |
| 15 | MP3A | Mx | 011 | .25 |
| 16 | MP3A | Х | 22.698 | 4.75 |
| 17 | MP3A | Z | 0 | 4.75 |
| 18 | MP3A | Mx | 011 | 4.75 |
| 19 | MP1A | Х | 12.974 | .5 |
| 20 | MP1A | Z | 0 | .5 |
| 21 | MP1A | Mx | 006 | .5 |
| 22 | MP1A | Х | 12.974 | 4 |
| 23 | MP1A | Z | 0 | 4 |
| 24 | MP1A | Mx | 006 | 4 |
| 25 | M32 | Х | 2.983 | 2 |
| 26 | M32 | Z | 0 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 10.417 | 2.5 |
| 29 | MP4A | Z | 0 | 2.5 |
| 30 | MP4A | Mx | .005 | 2.5 |
| 31 | MP3A | Х | 10.259 | 2.5 |
| 32 | MP3A | Z | 0 | 2.5 |
| 33 | MP3A | Mx | .004 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 8.744 | 2.25 |
| 2 | MP2A | Z | 5.048 | 2.25 |
| 3 | MP2A | Mx | 004 | 2.25 |
| 4 | MP2A | X | 8.744 | 4.25 |
| 5 | MP2A | Z | 5.048 | 4.25 |
| 6 | MP2A | Mx | 004 | 4.25 |
| 7 | MP3A | Х | 21.934 | .25 |
| 8 | MP3A | Z | 12.664 | .25 |
| 9 | MP3A | Mx | 019 | .25 |
| 10 | MP3A | X | 21.934 | 4.75 |
| 11 | MP3A | Z | 12.664 | 4.75 |
| 12 | MP3A | Mx | 019 | 4.75 |

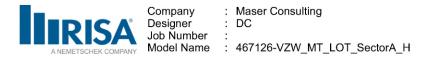


Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP3A | Х | 21.934 | .25 |
| 14 | MP3A | Z | 12.664 | .25 |
| 15 | MP3A | Mx | 003 | .25 |
| 16 | MP3A | Х | 21.934 | 4.75 |
| 17 | MP3A | Z | 12.664 | 4.75 |
| 18 | MP3A | Mx | 003 | 4.75 |
| 19 | MP1A | Х | 12.559 | .5 |
| 20 | MP1A | Z | 7.251 | .5 |
| 21 | MP1A | Mx | 006 | .5 |
| 22 | MP1A | Х | 12.559 | 4 |
| 23 | MP1A | Z | 7.251 | 4 |
| 24 | MP1A | Mx | 006 | 4 |
| 25 | M32 | Х | 2.975 | 2 |
| 26 | M32 | Z | 1.718 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 10.003 | 2.5 |
| 29 | MP4A | Z | 5.775 | 2.5 |
| 30 | MP4A | Mx | .005 | 2.5 |
| 31 | MP3A | Х | 7.531 | 2.5 |
| 32 | MP3A | Z | 4.348 | 2.5 |
| 33 | MP3A | Mx | .004 | 2.5 |

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

| 1 MP2A X 7.579 2.25 2 MP2A Z 13.128 2.25 3 MP2A Mx 004 2.25 4 MP2A X 7.579 4.25 5 MP2A Z 13.128 4.25 6 MP2A X 15.293 .25 7 MP3A X 15.293 .25 8 MP3A Z 26.489 .25 9 MP3A X 15.293 4.75 11 MP3A X 15.293 4.75 12 MP3A X 15.293 4.75 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A X 15.293 4.75 14 MP3A Z 26.489 4.75 16 MP3A X 15.293 4.75 18 MP3 | | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|----|--------------|-----------|--------------------|----------------|
| 2 MP2A Z 13.128 2.25 3 MP2A Mx 004 2.25 4 MP2A X 7.579 4.25 5 MP2A Z 13.128 4.25 6 MP2A X 15.293 .25 7 MP3A X 15.293 .25 8 MP3A Z 26.489 .25 9 MP3A X 15.293 4.75 11 MP3A Z 26.489 4.75 12 MP3A X 15.293 4.75 13 MP3A Z 26.489 .25 14 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A MX .01 .25 16 MP3A X 15.293 4.75 18 MP3A X .01 4.75 20 MP1A <td>1</td> <td>MP2A</td> <td>Х</td> <td></td> <td></td> | 1 | MP2A | Х | | |
| 4 MP2A X 7.579 4.25 5 MP2A Z 13.128 4.25 6 MP2A Mx 004 4.25 7 MP3A X 15.293 .25 8 MP3A Z 26.489 .25 9 MP3A Mx 025 .25 10 MP3A X 15.293 4.75 11 MP3A X 15.293 4.75 11 MP3A Z 26.489 4.75 12 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A Z 26.489 .25 15 MP3A Z 26.489 .25 16 MP3A X 15.293 4.75 18 MP3A X .01 .4.75 19 MP1A X 8.779 .5 20 MP1A </td <td>2</td> <td>MP2A</td> <td>Z</td> <td>13.128</td> <td>2.25</td> | 2 | MP2A | Z | 13.128 | 2.25 |
| 4 MP2A X 7.579 4.25 5 MP2A Z 13.128 4.25 6 MP2A Mx 004 4.25 7 MP3A X 15.293 .25 8 MP3A Z 26.489 .25 9 MP3A Mx 025 .25 10 MP3A X 15.293 4.75 11 MP3A X 15.293 4.75 12 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A X 15.293 .4.75 16 MP3A X 15.293 .4.75 18 MP3A Z 26.489 .5 20 MP1A X 8.779 .5 21 MP1A | 3 | MP2A | Mx | 004 | 2.25 |
| 5 MP2A Z 13.128 4.25 6 MP2A Mx 004 4.25 7 MP3A X 15.293 .25 8 MP3A Z 26.489 .25 9 MP3A Mx 025 .25 10 MP3A X 15.293 4.75 11 MP3A Z 26.489 4.75 12 MP3A X 15.293 4.75 13 MP3A Z 26.489 4.75 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A X 15.293 4.75 16 MP3A X 15.293 4.75 18 MP3A X 15.205 .5 20 MP1A Z 15.205 .5 21 MP1A X 8.779 4 23 MP1A< | 4 | MP2A | Х | 7.579 | 4.25 |
| 7 MP3A X 15.293 .25 8 MP3A Z 26.489 .25 9 MP3A Mx 025 .25 10 MP3A X 15.293 4.75 11 MP3A Z 26.489 4.75 12 MP3A Mx 025 4.75 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 14 MP3A Z 26.489 .25 15 MP3A X 15.293 .4.75 16 MP3A X 15.293 4.75 17 MP3A X 15.293 4.75 18 MP3A X 15.205 .5 20 MP1A X 8.779 .4 23 MP1A Z 15.205 .5 21 MP1A X 8.779 4 23 MP1A </td <td>5</td> <td>MP2A</td> <td>Z</td> <td>13.128</td> <td>4.25</td> | 5 | MP2A | Z | 13.128 | 4.25 |
| 7 MP3A X 15.293 .25 8 MP3A Z 26.489 .25 9 MP3A Mx 025 .25 10 MP3A X 15.293 4.75 11 MP3A Z 26.489 4.75 12 MP3A MX 025 4.75 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 14 MP3A Z 26.489 .25 15 MP3A Z 26.489 .25 16 MP3A X 15.293 4.75 17 MP3A Z 26.489 4.75 18 MP3A Mx .01 .4.75 19 MP1A X 8.779 .5 20 MP1A Z 15.205 .5 21 MP1A X 8.779 4 23 MP1A <td>6</td> <td>MP2A</td> <td>Mx</td> <td>004</td> <td>4.25</td> | 6 | MP2A | Mx | 004 | 4.25 |
| 9 MP3A Mx 025 .25 10 MP3A X 15.293 4.75 11 MP3A Z 26.489 4.75 12 MP3A Mx 025 4.75 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 14 MP3A X 15.293 .25 15 MP3A Z 26.489 .25 16 MP3A Z 26.489 .25 16 MP3A X 15.293 4.75 17 MP3A Z 26.489 4.75 18 MP3A Mx .01 4.75 19 MP1A X 8.779 .5 20 MP1A Z 15.205 .5 21 MP1A X 8.779 4 23 MP1A Z 15.205 4 24 MP1A <td>7</td> <td>MP3A</td> <td>Х</td> <td>15.293</td> <td>.25</td> | 7 | MP3A | Х | 15.293 | .25 |
| 10 MP3A X 15.293 4.75 11 MP3A Z 26.489 4.75 12 MP3A Mx 025 4.75 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 14 MP3A Z 26.489 .25 15 MP3A Mx .01 .25 16 MP3A X 15.293 4.75 17 MP3A X 15.293 4.75 18 MP3A Z 26.489 4.75 18 MP3A X .01 4.75 19 MP1A X 8.779 .5 20 MP1A X 8.779 4 23 MP1A X 8.779 4 23 MP1A Z 15.205 4 24 MP1A X 8.779 4 25 M32 | 8 | MP3A | Z | 26.489 | .25 |
| 11 MP3A Z 26.489 4.75 12 MP3A Mx 025 4.75 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A X 15.293 .25 16 MP3A X 15.293 4.75 16 MP3A Z 26.489 4.75 17 MP3A Z 26.489 4.75 18 MP3A Z 26.489 4.75 19 MP1A X 8.779 .5 20 MP1A Z 15.205 .5 21 MP1A X 8.779 4 23 MP1A Z 15.205 4 24 MP1A X 8.779 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 | 9 | MP3A | Mx | 025 | .25 |
| 12 MP3A Mx 025 4.75 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A Mx .01 .25 16 MP3A X 15.293 4.75 16 MP3A X 15.293 4.75 17 MP3A Z 26.489 4.75 18 MP3A X 15.293 4.75 18 MP3A X .01 4.75 19 MP1A X 8.779 .5 20 MP1A Z 15.205 .5 21 MP1A X 8.779 4 23 MP1A Z 15.205 4 24 MP1A Z 15.205 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 26 M32 <td< td=""><td>10</td><td>MP3A</td><td>Х</td><td>15.293</td><td>4.75</td></td<> | 10 | MP3A | Х | 15.293 | 4.75 |
| 13 MP3A X 15.293 .25 14 MP3A Z 26.489 .25 15 MP3A Mx .01 .25 16 MP3A X 15.293 4.75 17 MP3A Z 26.489 4.75 17 MP3A Z 26.489 4.75 18 MP3A Mx .01 4.75 19 MP1A X 8.779 .5 20 MP1A Z 15.205 .5 21 MP1A Mx 004 .5 22 MP1A X 8.779 4 23 MP1A Z 15.205 .4 24 MP1A Z 15.205 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 2 27 M32 Mx 0 2 2 28 | 11 | MP3A | Z | 26.489 | 4.75 |
| 14 MP3A Z 26.489 .25 15 MP3A Mx .01 .25 16 MP3A X 15.293 4.75 17 MP3A Z 26.489 4.75 18 MP3A Z 26.489 4.75 18 MP3A Mx .01 4.75 19 MP1A X 8.779 .5 20 MP1A Z 15.205 .5 21 MP1A X 8.779 4 22 MP1A X 8.779 4 23 MP1A X 8.779 4 24 MP1A X 8.779 4 25 M32 X 15.205 4 24 MP1A Z 15.205 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 Mx | 12 | MP3A | Mx | 025 | 4.75 |
| 15MP3AMx.01.2516MP3AX15.2934.7517MP3AZ26.4894.7518MP3AMx.014.7519MP1AX8.779.520MP1AZ15.205.521MP1AMx004.522MP1AX8.779423MP1AZ15.205424MP1AX8.779425M32X1.831226M32Z3.172227M32Mx0228MP4AZ11.9642.530MP4AMx.0032.5 | 13 | MP3A | Х | 15.293 | .25 |
| 16MP3AX15.2934.7517MP3AZ26.4894.7518MP3AMx.014.7519MP1AX8.779.520MP1AZ15.205.521MP1AMx004.522MP1AX8.779423MP1AZ15.205424MP1AX8.779425M32X1.831226M32Z3.172227M32Mx0228MP4AX6.9082.530MP4AMx.0032.5 | 14 | MP3A | Z | 26.489 | .25 |
| 17MP3AZ26.4894.7518MP3AMx.014.7519MP1AX8.779.520MP1AZ15.205.521MP1AMx004.522MP1AX8.779423MP1AZ15.205424MP1AMx004425M32X1.831226M32Z3.172227M32Mx0228MP4AX6.9082.530MP4AMx.0032.5 | | MP3A | Mx | .01 | .25 |
| 18MP3AMx.014.7519MP1AX8.779.520MP1AZ15.205.521MP1AMx004.522MP1AX8.779423MP1AZ15.205424MP1AMx004425M32X1.831226M32Z3.172227M32Mx0228MP4AX6.9082.530MP4AMx.0032.5 | 16 | MP3A | | 15.293 | 4.75 |
| 19 MP1A X 8.779 .5 20 MP1A Z 15.205 .5 21 MP1A Mx 004 .5 22 MP1A X 8.779 4 23 MP1A X 8.779 4 23 MP1A Z 15.205 4 24 MP1A Z 15.205 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | 17 | MP3A | Z | 26.489 | 4.75 |
| 20 MP1A Z 15.205 .5 21 MP1A Mx 004 .5 22 MP1A X 8.779 4 23 MP1A Z 15.205 4 24 MP1A Mx 004 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | 18 | MP3A | Mx | .01 | 4.75 |
| 21 MP1A Mx 004 .5 22 MP1A X 8.779 4 23 MP1A Z 15.205 4 24 MP1A Mx 004 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A X 0.003 2.5 | 19 | MP1A | Х | | .5 |
| 22 MP1A X 8.779 4 23 MP1A Z 15.205 4 24 MP1A Mx 004 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | | MP1A | | | |
| 23 MP1A Z 15.205 4 24 MP1A Mx 004 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | 21 | MP1A | Mx | 004 | .5 |
| 24 MP1A Mx 004 4 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | 22 | MP1A | Х | 8.779 | 4 |
| 25 M32 X 1.831 2 26 M32 Z 3.172 2 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | 23 | MP1A | Z | 15.205 | |
| 26 M32 Z 3.172 2 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | | MP1A | | | |
| 27 M32 Mx 0 2 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | | | Х | | 2 |
| 28 MP4A X 6.908 2.5 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | | M32 | | 3.172 | |
| 29 MP4A Z 11.964 2.5 30 MP4A Mx .003 2.5 | | | | - | |
| 30 MP4A Mx .003 2.5 | 28 | MP4A | | 6.908 | |
| 30 MP4A Mx .003 2.5 | 29 | MP4A | | 11.964 | |
| | | MP4A | | | |
| 31 MP3A X 5.129 2.5 | | MP3A | | | |
| 32 MP3A Z 8.884 2.5 | 32 | MP3A | Z | 8.884 | 2.5 |



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

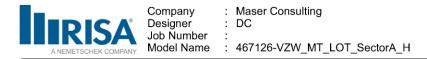
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP3A | Mx | .004 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 0 | 2.25 |
| 2 | MP2A | Z | 17.689 | 2.25 |
| 3 | MP2A | Mx | 0 | 2.25 |
| 4 | MP2A | Х | 0 | 4.25 |
| 5 | MP2A | Z | 17.689 | 4.25 |
| 6 | MP2A | Mx | 0 | 4.25 |
| 7 | MP3A | X | 0 | .25 |
| 8 | MP3A | Z | 33.216 | .25 |
| 9 | MP3A | Mx | 022 | .25 |
| 10 | MP3A | X | 0 | 4.75 |
| 11 | MP3A | Z | 33.216 | 4.75 |
| 12 | MP3A | Mx | 022 | 4.75 |
| 13 | MP3A | Х | 0 | .25 |
| 14 | MP3A | Z | 33.216 | .25 |
| 15 | MP3A | Mx | .022 | .25 |
| 16 | MP3A | X | 0 | 4.75 |
| 17 | MP3A | Z | 33.216 | 4.75 |
| 18 | MP3A | Mx | .022 | 4.75 |
| 19 | MP1A | Х | 0 | .5 |
| 20 | MP1A | Z | 19.085 | .5 |
| 21 | MP1A | Mx | 0 | .5 |
| 22 | MP1A | Х | 0 | 4 |
| 23 | MP1A | Z | 19.085 | 4 |
| 24 | MP1A | Mx | 0 | 4 |
| 25 | M32 | Х | 0 | 2 |
| 26 | M32 | Z | 3.436 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | X | 0 | 2.5 |
| 29 | MP4A | Z | 14.948 | 2.5 |
| 30 | MP4A | Mx | 0 | 2.5 |
| 31 | MP3A | Х | 0 | 2.5 |
| 32 | MP3A | Z | 13.385 | 2.5 |
| 33 | MP3A | Mx | .003 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -7.579 | 2.25 |
| 2 | MP2A | Z | 13.128 | 2.25 |
| 3 | MP2A | Mx | .004 | 2.25 |
| 4 | MP2A | Х | -7.579 | 4.25 |
| 5 | MP2A | Z | 13.128 | 4.25 |
| 6 | MP2A | Mx | .004 | 4.25 |
| 7 | MP3A | Х | -15.293 | .25 |
| 8 | MP3A | Z | 26.489 | .25 |
| 9 | MP3A | Mx | 01 | .25 |
| 10 | MP3A | Х | -15.293 | 4.75 |
| 11 | MP3A | Z | 26.489 | 4.75 |
| 12 | MP3A | Mx | 01 | 4.75 |
| 13 | MP3A | Х | -15.293 | .25 |
| 14 | MP3A | Z | 26.489 | .25 |
| 15 | MP3A | Mx | .025 | .25 |
| 16 | MP3A | Х | -15.293 | 4.75 |



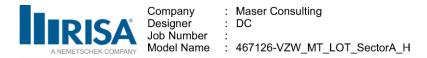
Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP3A | Z | 26.489 | 4.75 |
| 18 | MP3A | Mx | .025 | 4.75 |
| 19 | MP1A | Х | -8.779 | .5 |
| 20 | MP1A | Z | 15.205 | .5 |
| 21 | MP1A | Mx | .004 | .5 |
| 22 | MP1A | Х | -8.779 | 4 |
| 23 | MP1A | Z | 15.205 | 4 |
| 24 | MP1A | Mx | .004 | 4 |
| 25 | M32 | Х | -1.491 | 2 |
| 26 | M32 | Z | 2.583 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -6.908 | 2.5 |
| 29 | MP4A | Z | 11.964 | 2.5 |
| 30 | MP4A | Mx | 003 | 2.5 |
| 31 | MP3A | Х | -7.474 | 2.5 |
| 32 | MP3A | Z | 12.945 | 2.5 |
| 33 | MP3A | Mx | 0 | 2.5 |

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

| 1 | | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|------|-----------|--------------------|----------------|
| | MP2A | Х | -8.744 | 2.25 |
| 2 | MP2A | Z | 5.048 | 2.25 |
| 3 | MP2A | Mx | .004 | 2.25 |
| 4 | MP2A | Х | -8.744 | 4.25 |
| 5 | MP2A | Z | 5.048 | 4.25 |
| 6 | MP2A | Mx | .004 | 4.25 |
| 7 | MP3A | Х | -21.934 | .25 |
| 8 | MP3A | Z | 12.664 | .25 |
| 9 | MP3A | Mx | .003 | .25 |
| 10 | MP3A | Х | -21.934 | 4.75 |
| 11 | MP3A | Z | 12.664 | 4.75 |
| 12 | MP3A | Mx | .003 | 4.75 |
| 13 | MP3A | Х | -21.934 | .25 |
| 14 | MP3A | Z | 12.664 | .25 |
| 15 | MP3A | Mx | .019 | .25 |
| 16 | MP3A | Х | -21.934 | 4.75 |
| 17 | MP3A | Z | 12.664 | 4.75 |
| 18 | MP3A | Mx | .019 | 4.75 |
| 19 | MP1A | Х | -12.559 | .5 |
| 20 | MP1A | Z | 7.251 | .5 |
| 21 | MP1A | Mx | .006 | .5 |
| 22 | MP1A | Х | -12.559 | 4 |
| 23 | MP1A | Z | 7.251 | 4 |
| 24 | MP1A | Mx | .006 | 4 |
| 25 | M32 | Х | -2.387 | 2 |
| 26 | M32 | Z | 1.378 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | X | -10.003 | 2.5 |
| 29 | MP4A | Z | 5.775 | 2.5 |
| 30 | MP4A | Mx | 005 | 2.5 |
| 31 | MP3A | Х | -11.592 | 2.5 |
| 32 | MP3A | Z | 6.692 | 2.5 |
| 33 | MP3A | Mx | 003 | 2.5 |

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

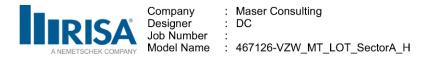


Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -7.565 | 2.25 |
| 2 | MP2A | Z | 0 | 2.25 |
| 3 | MP2A | Mx | .004 | 2.25 |
| 4 | MP2A | Х | -7.565 | 4.25 |
| 5 | MP2A | Z | 0 | 4.25 |
| 6 | MP2A | Mx | .004 | 4.25 |
| 7 | MP3A | Х | -22.698 | .25 |
| 8 | MP3A | Z | 0 | .25 |
| 9 | MP3A | Mx | .011 | .25 |
| 10 | MP3A | Х | -22.698 | 4.75 |
| 11 | MP3A | Z | 0 | 4.75 |
| 12 | MP3A | Mx | .011 | 4.75 |
| 13 | MP3A | Х | -22.698 | .25 |
| 14 | MP3A | Z | 0 | .25 |
| 15 | MP3A | Mx | .011 | .25 |
| 16 | MP3A | Х | -22.698 | 4.75 |
| 17 | MP3A | Z | 0 | 4.75 |
| 18 | MP3A | Mx | .011 | 4.75 |
| 19 | MP1A | Х | -12.974 | .5 |
| 20 | MP1A | Z | 0 | .5 |
| 21 | MP1A | Mx | .006 | .5 |
| 22 | MP1A | Х | -12.974 | 4 |
| 23 | MP1A | Z | 0 | 4 |
| 24 | MP1A | Mx | .006 | 4 |
| 25 | M32 | Х | -2.983 | 2 |
| 26 | M32 | Z | 0 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -10.417 | 2.5 |
| 29 | MP4A | Z | 0 | 2.5 |
| 30 | MP4A | Mx | 005 | 2.5 |
| 31 | MP3A | Х | -10.259 | 2.5 |
| 32 | MP3A | Z | 0 | 2.5 |
| 33 | MP3A | Mx | 004 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -8.744 | 2.25 |
| 2 | MP2A | Z | -5.048 | 2.25 |
| 3 | MP2A | Mx | .004 | 2.25 |
| 4 | MP2A | Х | -8.744 | 4.25 |
| 5 | MP2A | Z | -5.048 | 4.25 |
| 6 | MP2A | Mx | .004 | 4.25 |
| 7 | MP3A | Х | -21.934 | .25 |
| 8 | MP3A | Z | -12.664 | .25 |
| 9 | MP3A | Mx | .019 | .25 |
| 10 | MP3A | Х | -21.934 | 4.75 |
| 11 | MP3A | Z | -12.664 | 4.75 |
| 12 | MP3A | Mx | .019 | 4.75 |
| 13 | MP3A | Х | -21.934 | .25 |
| 14 | MP3A | Z | -12.664 | .25 |
| 15 | MP3A | Mx | .003 | .25 |
| 16 | MP3A | Х | -21.934 | 4.75 |
| 17 | MP3A | Z | -12.664 | 4.75 |
| 18 | MP3A | Mx | .003 | 4.75 |
| 19 | MP1A | Х | -12.559 | .5 |
| 20 | MP1A | Z | -7.251 | .5 |



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

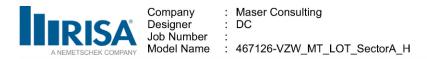
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 21 | MP1A | Mx | .006 | .5 |
| 22 | MP1A | Х | -12.559 | 4 |
| 23 | MP1A | Z | -7.251 | 4 |
| 24 | MP1A | Mx | .006 | 4 |
| 25 | M32 | Х | -2.975 | 2 |
| 26 | M32 | Z | -1.718 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -10.003 | 2.5 |
| 29 | MP4A | Z | -5.775 | 2.5 |
| 30 | MP4A | Mx | 005 | 2.5 |
| 31 | MP3A | Х | -7.531 | 2.5 |
| 32 | MP3A | Z | -4.348 | 2.5 |
| 33 | MP3A | Mx | 004 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X Z | -7.579 | 2.25 |
| 2 | MP2A | Z | -13.128 | 2.25 |
| 3 | MP2A | Mx | .004 | 2.25 |
| 4 | MP2A | Х | -7.579 | 4.25 |
| 5 | MP2A | Z | -13.128 | 4.25 |
| 6 | MP2A | Mx | .004 | 4.25 |
| 7 | MP3A | X | -15.293 | .25 |
| 8 | MP3A | Z | -26.489 | .25 |
| 9 | MP3A | Mx | .025 | .25 |
| 10 | MP3A | Х | -15.293 | 4.75 |
| 11 | MP3A | Z | -26.489 | 4.75 |
| 12 | MP3A | Mx | .025 | 4.75 |
| 13 | MP3A | Х | -15.293 | .25 |
| 14 | MP3A | X Z | -26.489 | .25 |
| 15 | MP3A | Mx | 01 | .25 |
| 16 | MP3A | Х | -15.293 | 4.75 |
| 17 | MP3A | Z | -26.489 | 4.75 |
| 18 | MP3A | Mx | 01 | 4.75 |
| 19 | MP1A | Х | -8.779 | .5 |
| 20 | MP1A | Z | -15.205 | .5 |
| 21 | MP1A | Mx | .004 | .5 |
| 22 | MP1A | Х | -8.779 | 4 |
| 23 | MP1A | Z | -15.205 | 4 |
| 24 | MP1A | Mx | .004 | 4 |
| 25 | M32 | Х | -1.831 | 2 |
| 26 | M32 | Z | -3.172 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -6.908 | 2.5 |
| 29 | MP4A | Z | -11.964 | 2.5 |
| 30 | MP4A | Mx | 003 | 2.5 |
| 31 | MP3A | Х | -5.129 | 2.5 |
| 32 | MP3A | Z | -8.884 | 2.5 |
| 33 | MP3A | Mx | 004 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 2.25 |
| 2 | MP2A | Z | -5.606 | 2.25 |
| 3 | MP2A | Mx | 0 | 2.25 |
| 4 | MP2A | Х | 0 | 4.25 |

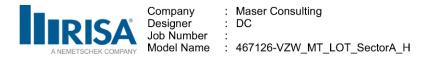


Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 5 | MP2A | Z | -5.606 | 4.25 |
| 6 | MP2A | Mx | 0 | 4.25 |
| 7 | MP3A | Х | 0 | .25 |
| 8 | MP3A | Z | -10.865 | .25 |
| 9 | MP3A | Mx | .007 | .25 |
| 10 | MP3A | Х | 0 | 4.75 |
| 11 | MP3A | Z | -10.865 | 4.75 |
| 12 | MP3A | Mx | .007 | 4.75 |
| 13 | MP3A | Х | 0 | .25 |
| 14 | MP3A | Z | -10.865 | .25 |
| 15 | MP3A | Mx | 007 | .25 |
| 16 | MP3A | Х | 0 | 4.75 |
| 17 | MP3A | Z | -10.865 | 4.75 |
| 18 | MP3A | Mx | 007 | 4.75 |
| 19 | MP1A | Х | 0 | .5 |
| 20 | MP1A | Z | -6.071 | .5 |
| 21 | MP1A | Mx | 0 | .5 |
| 22 | MP1A | Х | 0 | 4 |
| 23 | MP1A | Z | -6.071 | 4 |
| 24 | MP1A | Mx | 0 | 4 |
| 25 | M32 | Х | 0 | 2 |
| 26 | M32 | Z | 815 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 0 | 2.5 |
| 29 | MP4A | Z | -4.461 | 2.5 |
| 30 | MP4A | Mx | 0 | 2.5 |
| 31 | MP3A | Х | 0 | 2.5 |
| 32 | MP3A | Z | -3.949 | 2.5 |
| 33 | MP3A | Mx | 000987 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 2.376 | 2.25 |
| 2 | MP2A | Z | -4.116 | 2.25 |
| 3 | MP2A | Mx | 001 | 2.25 |
| 4 | MP2A | Х | 2.376 | 4.25 |
| 5 | MP2A | Z | -4.116 | 4.25 |
| 6 | MP2A | Mx | 001 | 4.25 |
| 7 | MP3A | Х | 4.967 | .25 |
| 8 | MP3A | Z | -8.602 | .25 |
| 9 | MP3A | Mx | .003 | .25 |
| 10 | MP3A | Х | 4.967 | 4.75 |
| 11 | MP3A | Z | -8.602 | 4.75 |
| 12 | MP3A | Mx | .003 | 4.75 |
| 13 | MP3A | Х | 4.967 | .25 |
| 14 | MP3A | Z | -8.602 | .25 |
| 15 | MP3A | Mx | 008 | .25 |
| 16 | MP3A | X | 4.967 | 4.75 |
| 17 | MP3A | Z | -8.602 | 4.75 |
| 18 | MP3A | Mx | 008 | 4.75 |
| 19 | MP1A | Х | 2.773 | .5 |
| 20 | MP1A | Z | -4.803 | .5 |
| 21 | MP1A | Mx | 001 | .5 |
| 22 | MP1A | Х | 2.773 | 4 |
| 23 | MP1A | Z | -4.803 | 4 |
| 24 | MP1A | Mx | 001 | 4 |



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

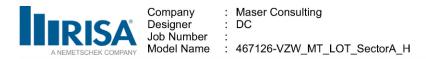
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | M32 | X | .339 | 2 |
| 26 | M32 | Z | 588 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 2.045 | 2.5 |
| 29 | MP4A | Z | -3.543 | 2.5 |
| 30 | MP4A | Mx | .001 | 2.5 |
| 31 | MP3A | Х | 2.23 | 2.5 |
| 32 | MP3A | Z | -3.863 | 2.5 |
| 33 | MP3A | Mx | 0 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 2.639 | 2.25 |
| 2 | MP2A | Z | -1.524 | 2.25 |
| 3 | MP2A | Mx | 001 | 2.25 |
| 4 | MP2A | X | 2.639 | 4.25 |
| 5 | MP2A | Z | -1.524 | 4.25 |
| 6 | MP2A | Mx | 001 | 4.25 |
| 7 | MP3A | X | 6.988 | .25 |
| 8 | MP3A | Z | -4.034 | .25 |
| 9 | MP3A | Mx | 000805 | .25 |
| 10 | MP3A | X | 6.988 | 4.75 |
| 11 | MP3A | Z | -4.034 | 4.75 |
| 12 | MP3A | Mx | 000805 | 4.75 |
| 13 | MP3A | X | 6.988 | .25 |
| 14 | MP3A | Z | -4.034 | .25 |
| 15 | MP3A | Mx | 006 | .25 |
| 16 | MP3A | X | 6.988 | 4.75 |
| 17 | MP3A | Z | -4.034 | 4.75 |
| 18 | MP3A | Mx | 006 | 4.75 |
| 19 | MP1A | X | 3.894 | .5 |
| 20 | MP1A | Z | -2.248 | .5 |
| 21 | MP1A | Mx | 002 | .5 |
| 22 | MP1A | X | 3.894 | 4 |
| 23 | MP1A | Z | -2.248 | 4 |
| 24 | MP1A | Mx | 002 | 4 |
| 25 | M32 | Х | .529 | 2 |
| 26 | M32 | Z | 305 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | X | 2.902 | 2.5 |
| 29 | MP4A | Z | -1.676 | 2.5 |
| 30 | MP4A | Mx | .001 | 2.5 |
| 31 | MP3A | Х | 3.42 | 2.5 |
| 32 | MP3A | Z | -1.975 | 2.5 |
| 33 | MP3A | Mx | .000987 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|-----------------------------|----------------|
| 1 | MP2A | X | Magnitude[lb,k-ft] 2.195 | 2.25 |
| 2 | MP2A | Z | 0 | 2.25 |
| 3 | MP2A | Mx | 001 | 2.25 |
| 4 | MP2A | X | 2.195 | 4.25 |
| 5 | MP2A | Z | 0 | 4.25 |
| 6 | MP2A | Mx | 001 | 4.25 |
| 7 | MP3A | Х | 7.136 | .25 |
| 8 | MP3A | Z | 0 | .25 |

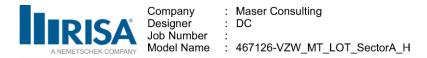


Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 9 | MP3A | Mx | 004 | .25 |
| 10 | MP3A | Х | 7.136 | 4.75 |
| 11 | MP3A | Z | 0 | 4.75 |
| 12 | MP3A | Mx | 004 | 4.75 |
| 13 | MP3A | Х | 7.136 | .25 |
| 14 | MP3A | Z | 0 | .25 |
| 15 | MP3A | Mx | 004 | .25 |
| 16 | MP3A | Х | 7.136 | 4.75 |
| 17 | MP3A | Z | 0 | 4.75 |
| 18 | MP3A | Mx | 004 | 4.75 |
| 19 | MP1A | Х | 3.972 | .5 |
| 20 | MP1A | Z | 0 | .5 |
| 21 | MP1A | Mx | 002 | .5 |
| 22 | MP1A | Х | 3.972 | 4 |
| 23 | MP1A | Z | 0 | 4 |
| 24 | MP1A | Mx | 002 | 4 |
| 25 | M32 | Х | .679 | 2 |
| 26 | M32 | Z | 0 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 2.982 | 2.5 |
| 29 | MP4A | Z | 0 | 2.5 |
| 30 | MP4A | Mx | .001 | 2.5 |
| 31 | MP3A | Х | 2.927 | 2.5 |
| 32 | MP3A | Z | 0 | 2.5 |
| 33 | MP3A | Mx | .001 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 2.639 | 2.25 |
| 2 | MP2A | Z | 1.524 | 2.25 |
| 3 | MP2A | Mx | 001 | 2.25 |
| 4 | MP2A | Х | 2.639 | 4.25 |
| 5 | MP2A | Z | 1.524 | 4.25 |
| 6 | MP2A | Mx | 001 | 4.25 |
| 7 | MP3A | Х | 6.988 | .25 |
| 8 | MP3A | Z | 4.034 | .25 |
| 9 | MP3A | Mx | 006 | .25 |
| 10 | MP3A | Х | 6.988 | 4.75 |
| 11 | MP3A | Z | 4.034 | 4.75 |
| 12 | MP3A | Mx | 006 | 4.75 |
| 13 | MP3A | Х | 6.988 | .25 |
| 14 | MP3A | Z | 4.034 | .25 |
| 15 | MP3A | Mx | 000805 | .25 |
| 16 | MP3A | Х | 6.988 | 4.75 |
| 17 | MP3A | Z | 4.034 | 4.75 |
| 18 | MP3A | Mx | 000805 | 4.75 |
| 19 | MP1A | Х | 3.894 | .5 |
| 20 | MP1A | Z | 2.248 | .5 |
| 21 | MP1A | Mx | 002 | .5 |
| 22 | MP1A | Х | 3.894 | 4 |
| 23 | MP1A | Z | 2.248 | 4 |
| 24 | MP1A | Mx | 002 | 4 |
| 25 | M32 | Х | .705 | 2 |
| 26 | M32 | Z | .407 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 2.902 | 2.5 |



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

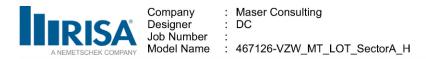
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 29 | MP4A | Z | 1.676 | 2.5 |
| 30 | MP4A | Mx | .001 | 2.5 |
| 31 | MP3A | Х | 2.092 | 2.5 |
| 32 | MP3A | Z | 1.208 | 2.5 |
| 33 | MP3A | Mx | .001 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 2.376 | 2.25 |
| 2 | MP2A | Z | 4.116 | 2.25 |
| 3 | MP2A | Mx | 001 | 2.25 |
| 4 | MP2A | Х | 2.376 | 4.25 |
| 5 | MP2A | Z | 4.116 | 4.25 |
| 6 | MP2A | Mx | 001 | 4.25 |
| 7 | MP3A | Х | 4.967 | .25 |
| 8 | MP3A | Z | 8.602 | .25 |
| 9 | MP3A | Mx | 008 | .25 |
| 10 | MP3A | Х | 4.967 | 4.75 |
| 11 | MP3A | Z | 8.602 | 4.75 |
| 12 | MP3A | Mx | 008 | 4.75 |
| 13 | MP3A | Х | 4.967 | .25 |
| 14 | MP3A | Z | 8.602 | .25 |
| 15 | MP3A | Mx | .003 | .25 |
| 16 | MP3A | Х | 4.967 | 4.75 |
| 17 | MP3A | Z | 8.602 | 4.75 |
| 18 | MP3A | Mx | .003 | 4.75 |
| 19 | MP1A | Х | 2.773 | .5 |
| 20 | MP1A | Z | 4.803 | .5 |
| 21 | MP1A | Mx | 001 | .5 |
| 22 | MP1A | Х | 2.773 | 4 |
| 23 | MP1A | Z | 4.803 | 4 |
| 24 | MP1A | Mx | 001 | 4 |
| 25 | M32 | Х | .441 | 2 |
| 26 | M32 | Z | .764 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 2.045 | 2.5 |
| 29 | MP4A | Z | 3.543 | 2.5 |
| 30 | MP4A | Mx | .001 | 2.5 |
| 31 | MP3A | Х | 1.463 | 2.5 |
| 32 | MP3A | Z | 2.534 | 2.5 |
| 33 | MP3A | Mx | .001 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | 0 | 2.25 |
| 2 | MP2A | Z | 5.606 | 2.25 |
| 3 | MP2A | Mx | 0 | 2.25 |
| 4 | MP2A | X | 0 | 4.25 |
| 5 | MP2A | Z | 5.606 | 4.25 |
| 6 | MP2A | Mx | 0 | 4.25 |
| 7 | MP3A | Х | 0 | .25 |
| 8 | MP3A | Z | 10.865 | .25 |
| 9 | MP3A | Mx | 007 | .25 |
| 10 | MP3A | X | 0 | 4.75 |
| 11 | MP3A | Z | 10.865 | 4.75 |
| 12 | MP3A | Mx | 007 | 4.75 |

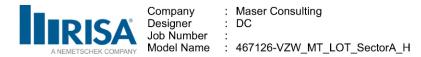


Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP3A | Х | 0 | .25 |
| 14 | MP3A | Z | 10.865 | .25 |
| 15 | MP3A | Mx | .007 | .25 |
| 16 | MP3A | Х | 0 | 4.75 |
| 17 | MP3A | Z | 10.865 | 4.75 |
| 18 | MP3A | Mx | .007 | 4.75 |
| 19 | MP1A | Х | 0 | .5 |
| 20 | MP1A | Z | 6.071 | .5 |
| 21 | MP1A | Mx | 0 | .5 |
| 22 | MP1A | Х | 0 | 4 |
| 23 | MP1A | Z | 6.071 | 4 |
| 24 | MP1A | Mx | 0 | 4 |
| 25 | M32 | Х | 0 | 2 |
| 26 | M32 | Z | .815 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | 0 | 2.5 |
| 29 | MP4A | Z | 4.461 | 2.5 |
| 30 | MP4A | Mx | 0 | 2.5 |
| 31 | MP3A | Х | 0 | 2.5 |
| 32 | MP3A | Z | 3.949 | 2.5 |
| 33 | MP3A | Mx | .000987 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -2.376 | 2.25 |
| 2 | MP2A | Z | 4.116 | 2.25 |
| 3 | MP2A | Mx | .001 | 2.25 |
| 4 | MP2A | Х | -2.376 | 4.25 |
| 5 | MP2A | Z | 4.116 | 4.25 |
| 6 | MP2A | Mx | .001 | 4.25 |
| 7 | MP3A | Х | -4.967 | .25 |
| 8 | MP3A | Z | 8.602 | .25 |
| 9 | MP3A | Mx | 003 | .25 |
| 10 | MP3A | Х | -4.967 | 4.75 |
| 11 | MP3A | Z | 8.602 | 4.75 |
| 12 | MP3A | Mx | 003 | 4.75 |
| 13 | MP3A | Х | -4.967 | .25 |
| 14 | MP3A | Z | 8.602 | .25 |
| 15 | MP3A | Mx | .008 | .25 |
| 16 | MP3A | Х | -4.967 | 4.75 |
| 17 | MP3A | Z | 8.602 | 4.75 |
| 18 | MP3A | Mx | .008 | 4.75 |
| 19 | MP1A | Х | -2.773 | .5 |
| 20 | MP1A | Z | 4.803 | .5 |
| 21 | MP1A | Mx | .001 | .5 |
| 22 | MP1A | Х | -2.773 | 4 |
| 23 | MP1A | Z | 4.803 | 4 |
| 24 | MP1A | Mx | .001 | 4 |
| 25 | M32 | Х | 339 | 2 |
| 26 | M32 | Z | .588 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -2.045 | 2.5 |
| 29 | MP4A | Z | 3.543 | 2.5 |
| 30 | MP4A | Mx | 001 | 2.5 |
| 31 | MP3A | X | -2.23 | 2.5 |
| 32 | MP3A | Z | 3.863 | 2.5 |
| | | | | |



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

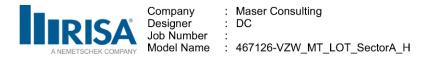
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP3A | Mx | 0 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -2.639 | 2.25 |
| 2 | MP2A | Z | 1.524 | 2.25 |
| 3 | MP2A | Mx | .001 | 2.25 |
| 4 | MP2A | Х | -2.639 | 4.25 |
| 5 | MP2A | Z | 1.524 | 4.25 |
| 6 | MP2A | Mx | .001 | 4.25 |
| 7 | MP3A | Х | -6.988 | .25 |
| 8 | MP3A | Z | 4.034 | .25 |
| 9 | MP3A | Mx | .000805 | .25 |
| 10 | MP3A | Х | -6.988 | 4.75 |
| 11 | MP3A | Z | 4.034 | 4.75 |
| 12 | MP3A | Mx | .000805 | 4.75 |
| 13 | MP3A | Х | -6.988 | .25 |
| 14 | MP3A | Z | 4.034 | .25 |
| 15 | MP3A | Mx | .006 | .25 |
| 16 | MP3A | Х | -6.988 | 4.75 |
| 17 | MP3A | Z | 4.034 | 4.75 |
| 18 | MP3A | Mx | .006 | 4.75 |
| 19 | MP1A | Х | -3.894 | .5 |
| 20 | MP1A | Z | 2.248 | .5 |
| 21 | MP1A | Mx | .002 | .5 |
| 22 | MP1A | Х | -3.894 | 4 |
| 23 | MP1A | Z | 2.248 | 4 |
| 24 | MP1A | Mx | .002 | 4 |
| 25 | M32 | Х | 529 | 2 |
| 26 | M32 | Z | .305 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -2.902 | 2.5 |
| 29 | MP4A | Z | 1.676 | 2.5 |
| 30 | MP4A | Mx | 001 | 2.5 |
| 31 | MP3A | Х | -3.42 | 2.5 |
| 32 | MP3A | Z | 1.975 | 2.5 |
| 33 | MP3A | Mx | 000987 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -2.195 | 2.25 |
| 2 | MP2A | Z | 0 | 2.25 |
| 3 | MP2A | Mx | .001 | 2.25 |
| 4 | MP2A | Х | -2.195 | 4.25 |
| 5 | MP2A | Z | 0 | 4.25 |
| 6 | MP2A | Mx | .001 | 4.25 |
| 7 | MP3A | Х | -7.136 | .25 |
| 8 | MP3A | Z | 0 | .25 |
| 9 | MP3A | Mx | .004 | .25 |
| 10 | MP3A | Х | -7.136 | 4.75 |
| 11 | MP3A | Z | 0 | 4.75 |
| 12 | MP3A | Mx | .004 | 4.75 |
| 13 | MP3A | Х | -7.136 | .25 |
| 14 | MP3A | Z | 0 | .25 |
| 15 | MP3A | Mx | .004 | .25 |
| 16 | MP3A | Х | -7.136 | 4.75 |



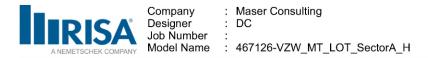
Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP3A | Z | 0 | 4.75 |
| 18 | MP3A | Mx | .004 | 4.75 |
| 19 | MP1A | Х | -3.972 | .5 |
| 20 | MP1A | Z | 0 | .5 |
| 21 | MP1A | Mx | .002 | .5 |
| 22 | MP1A | Х | -3.972 | 4 |
| 23 | MP1A | Z | 0 | 4 |
| 24 | MP1A | Mx | .002 | 4 |
| 25 | M32 | Х | 679 | 2 |
| 26 | M32 | Z | 0 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -2.982 | 2.5 |
| 29 | MP4A | Z | 0 | 2.5 |
| 30 | MP4A | Mx | 001 | 2.5 |
| 31 | MP3A | Х | -2.927 | 2.5 |
| 32 | MP3A | Z | 0 | 2.5 |
| 33 | MP3A | Mx | 001 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -2.639 | 2.25 |
| 2 | MP2A | Z | -1.524 | 2.25 |
| 3 | MP2A | Mx | .001 | 2.25 |
| 4 | MP2A | Х | -2.639 | 4.25 |
| 5 | MP2A | Z | -1.524 | 4.25 |
| 6 | MP2A | Mx | .001 | 4.25 |
| 7 | MP3A | Х | -6.988 | .25 |
| 8 | MP3A | Z | -4.034 | .25 |
| 9 | MP3A | Mx | .006 | .25 |
| 10 | MP3A | Х | -6.988 | 4.75 |
| 11 | MP3A | Z | -4.034 | 4.75 |
| 12 | MP3A | Mx | .006 | 4.75 |
| 13 | MP3A | Х | -6.988 | .25 |
| 14 | MP3A | Z | -4.034 | .25 |
| 15 | MP3A | Mx | .000805 | .25 |
| 16 | MP3A | Х | -6.988 | 4.75 |
| 17 | MP3A | Z | -4.034 | 4.75 |
| 18 | MP3A | Mx | .000805 | 4.75 |
| 19 | MP1A | Х | -3.894 | .5 |
| 20 | MP1A | Z | -2.248 | .5 |
| 21 | MP1A | Mx | .002 | .5 |
| 22 | MP1A | Х | -3.894 | 4 |
| 23 | MP1A | Z | -2.248 | 4 |
| 24 | MP1A | Mx | .002 | 4 |
| 25 | M32 | Х | 705 | 2 |
| 26 | M32 | Z | 407 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -2.902 | 2.5 |
| 29 | MP4A | Z | -1.676 | 2.5 |
| 30 | MP4A | Mx | 001 | 2.5 |
| 31 | MP3A | Х | -2.092 | 2.5 |
| 32 | MP3A | Z | -1.208 | 2.5 |
| 33 | MP3A | Mx | 001 | 2.5 |

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



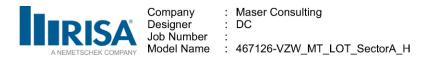
Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Х | -2.376 | 2.25 |
| 2 | MP2A | Z | -4.116 | 2.25 |
| 3 | MP2A | Mx | .001 | 2.25 |
| 4 | MP2A | Х | -2.376 | 4.25 |
| 5 | MP2A | Z | -4.116 | 4.25 |
| 6 | MP2A | Mx | .001 | 4.25 |
| 7 | MP3A | Х | -4.967 | .25 |
| 8 | MP3A | Z | -8.602 | .25 |
| 9 | MP3A | Mx | .008 | .25 |
| 10 | MP3A | Х | -4.967 | 4.75 |
| 11 | MP3A | Z | -8.602 | 4.75 |
| 12 | MP3A | Mx | .008 | 4.75 |
| 13 | MP3A | Х | -4.967 | .25 |
| 14 | MP3A | Z | -8.602 | .25 |
| 15 | MP3A | Mx | 003 | .25 |
| 16 | MP3A | Х | -4.967 | 4.75 |
| 17 | MP3A | Z | -8.602 | 4.75 |
| 18 | MP3A | Mx | 003 | 4.75 |
| 19 | MP1A | Х | -2.773 | .5 |
| 20 | MP1A | Z | -4.803 | .5 |
| 21 | MP1A | Mx | .001 | .5 |
| 22 | MP1A | Х | -2.773 | 4 |
| 23 | MP1A | Z | -4.803 | 4 |
| 24 | MP1A | Mx | .001 | 4 |
| 25 | M32 | Х | 441 | 2 |
| 26 | M32 | Z | 764 | 2 |
| 27 | M32 | Mx | 0 | 2 |
| 28 | MP4A | Х | -2.045 | 2.5 |
| 29 | MP4A | Z | -3.543 | 2.5 |
| 30 | MP4A | Mx | 001 | 2.5 |
| 31 | MP3A | Х | -1.463 | 2.5 |
| 32 | MP3A | Z | -2.534 | 2.5 |
| 33 | MP3A | Mx | 001 | 2.5 |

Member Point Loads (BLC 77 : Lm1)

| 1 | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] | | | | |
|------|-----------------------------------|-----------|--------------------|----------------|--|--|--|--|
| | M8 | Y | -500 | 0 | | | | |
| Merr | Member Point Loads (BLC 78 : Lm2) | | | | | | | |

| 1 | Member Label M6 | Direction | Magnitude[lb,k-ft] -500 | Location[ft,%] |
|---------------|----------------------------|-----------------------|----------------------------|----------------|
| | | | -300 | 0 |
| <u>Member</u> | <u>Point Loads (BLC 79</u> | : Lv1) | | |
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
| 1 | M2 | Y | -250 | %50 |
| Member | Point Loads (BLC 80 | : Lv2) | | |
| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
| 1 | | | | |
| | M2 | Y | -250 | 0 |
| | M2 | Y | -250 | 0 |
| Member | M2 Distributed Loads (B | LC 40 : Structure Di) | | 0 |
| Member | | | | |

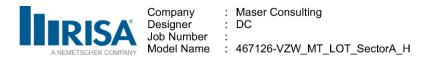


Member Distributed Loads (BLC 40 : Structure Di) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 2 | M2 | Y | -6.03 | -6.03 | 0 | %100 |
| 3 | MP4A | Y | -5.292 | -5.292 | 0 | %100 |
| 4 | MP3A | Y | -5.292 | -5.292 | 0 | %100 |
| 5 | MP2A | Y | -5.292 | -5.292 | 0 | %100 |
| 6 | MP1A | Y | -5.292 | -5.292 | 0 | %100 |
| 7 | M23 | Y | -6.276 | -6.276 | 0 | %100 |
| 8 | M24 | Y | -6.276 | -6.276 | 0 | %100 |
| 9 | M25 | Y | -6.276 | -6.276 | 0 | %100 |
| 10 | M26 | Y | -6.276 | -6.276 | 0 | %100 |
| 11 | M29 | Y | -8.429 | -8.429 | 0 | %100 |
| 12 | M32 | Y | -5.292 | -5.292 | 0 | %100 |
| 13 | M33 | Y | -5.292 | -5.292 | 0 | %100 |
| 14 | M34 | Y | -5.292 | -5.292 | 0 | %100 |
| 15 | M35 | Y | -5.292 | -5.292 | 0 | %100 |
| 16 | M36 | Y | -6.276 | -6.276 | 0 | %100 |
| 17 | M37 | Υ | -6.276 | -6.276 | 0 | %100 |
| 18 | M38 | Y | -6.276 | -6.276 | 0 | %100 |
| 19 | M39 | Y | -6.276 | -6.276 | 0 | %100 |
| 20 | M40 | Y | -5.292 | -5.292 | 0 | %100 |
| 21 | M41 | Y | -5.292 | -5.292 | 0 | %100 |
| 22 | M42 | Y | -4.236 | -4.236 | 0 | %100 |
| 23 | M43 | Y | -4.236 | -4.236 | 0 | %100 |
| 24 | M44 | Y | -4.236 | -4.236 | 0 | %100 |
| 25 | M45 | Y | -4.236 | -4.236 | 0 | %100 |
| 26 | M46 | Y | -4.236 | -4.236 | 0 | %100 |
| 27 | M47 | Y | -4.236 | -4.236 | 0 | %100 |
| 28 | M48 | Y | -4.236 | -4.236 | 0 | %100 |
| 29 | M49 | Y | -4.236 | -4.236 | 0 | %100 |
| 30 | M50 | Y | -5.292 | -5.292 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | -11.156 | -11.156 | 0 | %100 |
| 3 | M2 | Х | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | -11.156 | -11.156 | 0 | %100 |
| 5 | MP4A | Х | 0 | 0 | 0 | %100 |
| 6 | MP4A | Z | -9.216 | -9.216 | 0 | %100 |
| 7 | MP3A | Х | 0 | 0 | 0 | %100 |
| 8 | MP3A | Z | -9.216 | -9.216 | 0 | %100 |
| 9 | MP2A | Х | 0 | 0 | 0 | %100 |
| 10 | MP2A | Z | -9.216 | -9.216 | 0 | %100 |
| 11 | MP1A | Х | 0 | 0 | 0 | %100 |
| 12 | MP1A | Z | -9.216 | -9.216 | 0 | %100 |
| 13 | M23 | Х | 0 | 0 | 0 | %100 |
| 14 | M23 | Z | 906 | 906 | 0 | %100 |
| 15 | M24 | Х | 0 | 0 | 0 | %100 |
| 16 | M24 | Z | 906 | 906 | 0 | %100 |
| 17 | M25 | Х | 0 | 0 | 0 | %100 |
| 18 | M25 | Z | 906 | 906 | 0 | %100 |
| 19 | M26 | Х | 0 | 0 | 0 | %100 |
| 20 | M26 | Z | 906 | 906 | 0 | %100 |
| 21 | M29 | Х | 0 | 0 | 0 | %100 |
| 22 | M29 | Z | -12.074 | -12.074 | 0 | %100 |
| 23 | M32 | Х | 0 | 0 | 0 | %100 |
| 24 | M32 | Z | -4.216 | -4.216 | 0 | %100 |

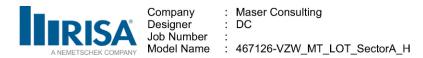


Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 25 | M33 | Х | 0 | 0 | 0 | %100 |
| 26 | M33 | Z | -4.216 | -4.216 | 0 | %100 |
| 27 | M34 | Х | 0 | 0 | 0 | %100 |
| 28 | M34 | Z | -4.216 | -4.216 | 0 | %100 |
| 29 | M35 | Х | 0 | 0 | 0 | %100 |
| 30 | M35 | Z | -4.216 | -4.216 | 0 | %100 |
| 31 | M36 | Х | 0 | 0 | 0 | %100 |
| 32 | M36 | Z | -11.642 | -11.642 | 0 | %100 |
| 33 | M37 | Х | 0 | 0 | 0 | %100 |
| 34 | M37 | Z | -11.642 | -11.642 | 0 | %100 |
| 35 | M38 | Х | 0 | 0 | 0 | %100 |
| 36 | M38 | Z | -11.642 | -11.642 | 0 | %100 |
| 37 | M39 | Х | 0 | 0 | 0 | %100 |
| 38 | M39 | Z | -11.642 | -11.642 | 0 | %100 |
| 39 | M40 | Х | 0 | 0 | 0 | %100 |
| 40 | M40 | Z | -7.105 | -7.105 | 0 | %100 |
| 41 | M41 | Х | 0 | 0 | 0 | %100 |
| 42 | M41 | Z | -7.105 | -7.105 | 0 | %100 |
| 43 | M42 | Х | 0 | 0 | 0 | %100 |
| 44 | M42 | Z | -5.097 | -5.097 | 0 | %100 |
| 45 | M43 | Х | 0 | 0 | 0 | %100 |
| 46 | M43 | Z | -4.881 | -4.881 | 0 | %100 |
| 47 | M44 | Х | 0 | 0 | 0 | %100 |
| 48 | M44 | Z | -4.881 | -4.881 | 0 | %100 |
| 49 | M45 | Х | 0 | 0 | 0 | %100 |
| 50 | M45 | Z | -5.097 | -5.097 | 0 | %100 |
| 51 | M46 | X | 0 | 0 | 0 | %100 |
| 52 | M46 | Z | -6.334 | -6.334 | 0 | %100 |
| 53 | M47 | Х | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | -6.334 | -6.334 | 0 | %100 |
| 55 | M48 | Х | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | -6.334 | -6.334 | 0 | %100 |
| 57 | M49 | Х | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | -6.334 | -6.334 | 0 | %100 |
| 59 | M50 | Х | 0 | 0 | 0 | %100 |
| 60 | M50 | Z | 261 | 261 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | 4.184 | 4.184 | 0 | %100 |
| 2 | M1 | Z | -7.246 | -7.246 | 0 | %100 |
| 3 | M2 | Х | 4.184 | 4.184 | 0 | %100 |
| 4 | M2 | Z | -7.246 | -7.246 | 0 | %100 |
| 5 | MP4A | Х | 4.608 | 4.608 | 0 | %100 |
| 6 | MP4A | Z | -7.981 | -7.981 | 0 | %100 |
| 7 | MP3A | Х | 4.608 | 4.608 | 0 | %100 |
| 8 | MP3A | Z | -7.981 | -7.981 | 0 | %100 |
| 9 | MP2A | Х | 4.608 | 4.608 | 0 | %100 |
| 10 | MP2A | Z | -7.981 | -7.981 | 0 | %100 |
| 11 | MP1A | Х | 4.608 | 4.608 | 0 | %100 |
| 12 | MP1A | Z | -7.981 | -7.981 | 0 | %100 |
| 13 | M23 | Х | .888 | .888 | 0 | %100 |
| 14 | M23 | Z | -1.538 | -1.538 | 0 | %100 |
| 15 | M24 | Х | .05 | .05 | 0 | %100 |
| 16 | M24 | Z | 086 | 086 | 0 | %100 |
| 17 | M25 | Х | .05 | .05 | 0 | %100 |

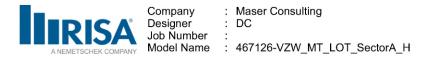


Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

| | Member Label | Direction | Start MagnitudeIlb/ft | .End Magnitude[lb/ft,F | . Start Location[ft.%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|------------------------|------------------------|--------------------|
| 18 | M25 | Z | 086 | 086 | 0 | %100 |
| 19 | M26 | Х | .888 | .888 | 0 | %100 |
| 20 | M26 | Z | -1.538 | -1.538 | 0 | %100 |
| 21 | M29 | Х | 6.037 | 6.037 | 0 | %100 |
| 22 | M29 | Z | -10.457 | -10.457 | 0 | %100 |
| 23 | M32 | Х | 4.194 | 4.194 | 0 | %100 |
| 24 | M32 | Z | -7.265 | -7.265 | 0 | %100 |
| 25 | M33 | Х | .218 | .218 | 0 | %100 |
| 26 | M33 | Z | 378 | 378 | 0 | %100 |
| 27 | M34 | Х | .218 | .218 | 0 | %100 |
| 28 | M34 | Z | 378 | 378 | 0 | %100 |
| 29 | M35 | Х | 4.194 | 4.194 | 0 | %100 |
| 30 | M35 | Z | -7.265 | -7.265 | 0 | %100 |
| 31 | M36 | Х | 4.669 | 4.669 | 0 | %100 |
| 32 | M36 | Z | -8.086 | -8.086 | 0 | %100 |
| 33 | M37 | Х | 4.669 | 4.669 | 0 | %100 |
| 34 | M37 | Z | -8.086 | -8.086 | 0 | %100 |
| 35 | M38 | X | 4.669 | 4.669 | 0 | %100 |
| 36 | M38 | Z | -8.086 | -8.086 | 0 | %100 |
| 37 | M39 | Х | 4.669 | 4.669 | 0 | %100 |
| 38 | M39 | Z | -8.086 | -8.086 | 0 | %100 |
| 39 | M40 | X | 3.553 | 3.553 | 0 | %100 |
| 40 | M40 | Z | -6.153 | -6.153 | 0 | %100 |
| 41 | M41 | X | 3.553 | 3.553 | 0 | %100 |
| 42 | M41 | Z | -6.153 | -6.153 | 0 | %100 |
| 43 | M42 | X | 3.11 | 3.11 | 0 | %100 |
| 44 | M42 | Z | -5.386 | -5.386 | 0 | %100 |
| 45 | M43 | X | 3.091 | 3.091 | 0 | %100 |
| 46 | M43 | Z | -5.353 | -5.353 | 0 | %100 |
| 47 | M44 | X | 1.853 | 1.853 | 0 | %100 |
| 48 | M44 | Z | -3.21 | -3.21 | 0 | %100 |
| 49 | M45 | Х | 2.04 | 2.04 | 0 | %100 |
| 50 | M45 | Z | -3.534 | -3.534 | 0 | %100 |
| 51 | M46 | X | 3.167 | 3.167 | 0 | %100 |
| 52 | M46 | Z | -5.485 | -5.485 | 0 | %100 |
| 53 | M47 | X | 3.167 | 3.167 | 0 | %100 |
| 54 | M47 | Z | -5.485 | -5.485 | 0 | %100 |
| 55 | M48 | X | 3.167 | 3.167 | 0 | %100 |
| 56 | M48 | Z | -5.485 | -5.485 | 0 | %100 |
| 57 | M49 | X | 3.167 | 3.167 | 0 | %100 |
| 58 | M49 | Z | -5.485 | -5.485 | 0 | %100 |
| 59 | M50 | X | 1.879 | 1.879 | 0 | %100 |
| 60 | M50 | Z | -3.255 | -3.255 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | 2.415 | 2.415 | 0 | %100 |
| 2 | M1 | Z | -1.395 | -1.395 | 0 | %100 |
| 3 | M2 | Х | 2.415 | 2.415 | 0 | %100 |
| 4 | M2 | Z | -1.395 | -1.395 | 0 | %100 |
| 5 | MP4A | Х | 7.981 | 7.981 | 0 | %100 |
| 6 | MP4A | Z | -4.608 | -4.608 | 0 | %100 |
| 7 | MP3A | Х | 7.981 | 7.981 | 0 | %100 |
| 8 | MP3A | Z | -4.608 | -4.608 | 0 | %100 |
| 9 | MP2A | Х | 7.981 | 7.981 | 0 | %100 |
| 10 | MP2A | Z | -4.608 | -4.608 | 0 | %100 |

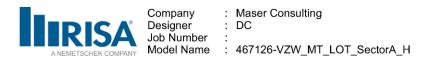


Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft | End Magnitude[lb/ft,F | | End Location[ft,%] |
|----|--------------|-----------|-----------------------|-----------------------|---|--------------------|
| 11 | MP1A | X | 7.981 | 7.981 | 0 | %100 |
| 12 | MP1A | Z | -4.608 | -4.608 | 0 | %100 |
| 13 | M23 | X | 1.594 | 1.594 | 0 | %100 |
| 14 | M23 | Z | 92 | 92 | 0 | %100 |
| 15 | M23 | X | .142 | .142 | 0 | %100 |
| 16 | M24 | Z | 082 | 082 | 0 | %100 |
| 17 | M25 | X | .142 | .142 | 0 | %100 |
| 18 | M25 | Z | 082 | 082 | 0 | %100 |
| 19 | M26 | X | 1.594 | 1.594 | 0 | %100 |
| 20 | M26 | Z | 92 | 92 | 0 | %100 |
| 21 | M20 | X | 10.457 | 10.457 | 0 | %100 |
| 22 | M29 | Z | -6.037 | -6.037 | 0 | %100 |
| 23 | M32 | X | 7.604 | 7.604 | 0 | %100 |
| 24 | M32 | Z | -4.39 | -4.39 | 0 | %100 |
| 25 | M33 | X | .717 | .717 | 0 | %100 |
| 26 | M33 | Z | 414 | 414 | 0 | %100 |
| 27 | M34 | X | .717 | .717 | 0 | %100 |
| 28 | M34 | Z | 414 | 414 | 0 | %100 |
| 29 | M35 | x | 7.604 | 7.604 | 0 | %100 |
| 30 | M35 | Z | -4.39 | -4.39 | 0 | %100 |
| 31 | M36 | x | 4.096 | 4.096 | 0 | %100 |
| 32 | M36 | Z | -2.365 | -2.365 | Ő | %100 |
| 33 | M37 | x | 4.096 | 4.096 | 0 | %100 |
| 34 | M37 | Z | -2.365 | -2.365 | 0 | %100 |
| 35 | M38 | X | 4.096 | 4.096 | 0 | %100 |
| 36 | M38 | Z | -2.365 | -2.365 | 0 | %100 |
| 37 | M39 | X | 4.096 | 4.096 | 0 | %100 |
| 38 | M39 | Z | -2.365 | -2.365 | 0 | %100 |
| 39 | M40 | Х | 6.153 | 6.153 | 0 | %100 |
| 40 | M40 | Z | -3.553 | -3.553 | 0 | %100 |
| 41 | M41 | Х | 6.153 | 6.153 | 0 | %100 |
| 42 | M41 | Z | -3.553 | -3.553 | 0 | %100 |
| 43 | M42 | Х | 5.477 | 5.477 | 0 | %100 |
| 44 | M42 | Z | -3.162 | -3.162 | 0 | %100 |
| 45 | M43 | Х | 5.463 | 5.463 | 0 | %100 |
| 46 | M43 | Z | -3.154 | -3.154 | 0 | %100 |
| 47 | M44 | Х | 3.319 | 3.319 | 0 | %100 |
| 48 | M44 | Z | -1.916 | -1.916 | 0 | %100 |
| 49 | M45 | X | 3.625 | 3.625 | 0 | %100 |
| 50 | M45 | Z | -2.093 | -2.093 | 0 | %100 |
| 51 | M46 | X | 5.485 | 5.485 | 0 | %100 |
| 52 | M46 | Z | -3.167 | -3.167 | 0 | %100 |
| 53 | M47 | X | 5.485 | 5.485 | 0 | %100 |
| 54 | M47 | Z | -3.167 | -3.167 | 0 | %100 |
| 55 | M48 | X | 5.485 | 5.485 | 0 | %100 |
| 56 | M48 | Z | -3.167 | -3.167 | 0 | %100 |
| 57 | M49 | X | 5.485 | 5.485 | 0 | %100 |
| 58 | M49 | Z | -3.167 | -3.167 | 0 | %100 |
| 59 | M50 | <u> </u> | 7.02 | 7.02 | 0 | %100 |
| 60 | M50 | Z | -4.053 | -4.053 | 0 | %100 |

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

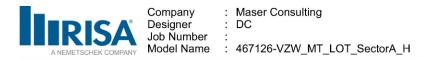
| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|---|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | Х | 0 | 0 | 0 | %100 |



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

| | Member Label | Direction | _ | End Magnitude[lb/ft,F | - | End Location[ft,% |
|----|--------------|-----------|--------|-----------------------|---|-------------------|
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | MP4A | X | 9.216 | 9.216 | 0 | %100 |
| 6 | MP4A | Z | 0 | 0 | 0 | %100 |
| 7 | MP3A | X | 9.216 | 9.216 | 0 | %100 |
| 8 | MP3A | Z | 0 | 0 | 0 | %100 |
| 9 | MP2A | Х | 9.216 | 9.216 | 0 | %100 |
| 10 | MP2A | Z | 0 | 0 | 0 | %100 |
| 11 | MP1A | Х | 9.216 | 9.216 | 0 | %100 |
| 12 | MP1A | Z | 0 | 0 | 0 | %100 |
| 13 | M23 | X | 1.034 | 1.034 | 0 | %100 |
| 14 | M23 | Z | 0 | 0 | 0 | %100 |
| 15 | M24 | X | 1.034 | 1.034 | 0 | %100 |
| 16 | M24 | Z | 0 | 0 | 0 | %100 |
| 17 | M25 | X | 1.034 | 1.034 | 0 | %100 |
| 18 | M25 | Z | 0 | 0 | 0 | %100 |
| 19 | M26 | X | 1.034 | 1.034 | 0 | %100 |
| 20 | M26 | Z | 0 | 0 | 0 | %100 |
| 20 | M29 | X | 12.074 | 12.074 | 0 | %100 |
| 22 | M29 | Z | 0 | 0 | 0 | %100 |
| | | | - | | | |
| 23 | M32 | X | 5 | 5 | 0 | %100 |
| 24 | M32 | Z | 0 | 0 | 0 | %100 |
| 25 | M33 | X | 5 | 5 | 0 | %100 |
| 26 | M33 | Z | 0 | 0 | 0 | %100 |
| 27 | M34 | X | 5 | 5 | 0 | %100 |
| 28 | M34 | Z | 0 | 0 | 0 | %100 |
| 29 | M35 | X | 5 | 5 | 0 | %100 |
| 30 | M35 | Z | 0 | 0 | 0 | %100 |
| 31 | M36 | X | 2.425 | 2.425 | 0 | %100 |
| 32 | M36 | Z | 0 | 0 | 0 | %100 |
| 33 | M37 | X | 2.425 | 2.425 | 0 | %100 |
| 34 | M37 | Z | 0 | 0 | 0 | %100 |
| 35 | M38 | X | 2.425 | 2.425 | 0 | %100 |
| 36 | M38 | Z | 0 | 0 | 0 | %100 |
| 37 | M39 | X | 2.425 | 2.425 | 0 | %100 |
| 38 | M39 | Z | 0 | 0 | 0 | %100 |
| 39 | M40 | X | 7.105 | 7.105 | 0 | %100 |
| 40 | M40 | Z | 0 | 0 | 0 | %100 |
| 41 | M41 | X | 7.105 | 7.105 | 0 | %100 |
| 42 | M41 | Z | 0 | 0 | 0 | %100 |
| 43 | M42 | Х | 5.308 | 5.308 | 0 | %100 |
| 44 | M42 | Z | 0 | 0 | 0 | %100 |
| 45 | M43 | X | 5.133 | 5.133 | 0 | %100 |
| 46 | M43 | Z | 0 | 0 | 0 | %100 |
| 47 | M44 | × | 5.133 | 5.133 | 0 | %100 |
| 48 | M44 | Z | 0 | 0 | 0 | %100 |
| 49 | M45 | X | 5.308 | 5.308 | 0 | %100 |
| 50 | M45 | Z | 0 | 0 | 0 | %100 |
| 51 | M46 | X | 6.334 | 6.334 | 0 | %100 |
| 52 | M46 | Z | 0.334 | 0.334 | 0 | %100 |
| 53 | M40 | X | 6.334 | 6.334 | 0 | %100 |
| 54 | M47 | Z | 0.334 | 0.334 | 0 | %100 |
| 55 | M48 | X | 6.334 | 6.334 | 0 | %100 |
| | | Z | 0.334 | | | |
| 56 | M48 | | * | 0 | 0 | %100 |
| 57 | M49 | X | 6.334 | 6.334 | 0 | %100 |
| 58 | M49 | Z | 0 | 0 | 0 | %100 |
| 59 | M50 | X | 8.955 | 8.955 | 0 | %100 |
| 60 | M50 | Z | 0 | 0 | 0 | %100 |

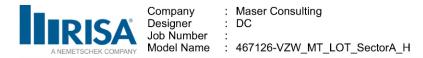
RISA-3D Version 17.0.4 [\...\...\...\...\...\...\...\...\Rev 0\RISA\467126-VZW_MT_LOT_A_H.r3d] Page 36



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

| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | M1 M1 M2 M2 MP4A MP4A MP3A MP3A MP3A MP2A MP2A MP1A MP1A | X Z X Z X Z X Z X Z X Z | 2.415 1.395 2.415 1.395 7.981 4.608 7.981 4.608 7.981 | 2.415 1.395 2.415 1.395 7.981 4.608 7.981 | 0 0 0 0 0 0 | %100 %100 %100 %100 %100 |
|---|--|--|---|---|----------------------------|--------------------------------------|
| 3 4 5 6 7 8 9 10 11 12 13 | M2 MP4A MP4A MP3A MP3A MP2A MP2A MP1A MP1A | X Z X Z X Z X | 2.415 1.395 7.981 4.608 7.981 4.608 | 2.415 1.395 7.981 4.608 | 0 0 0 0 | %100 %100 %100 |
| 4 5 6 7 8 9 10 11 12 13 | M2 MP4A MP3A MP3A MP3A MP2A MP2A MP1A MP1A | Z X Z X Z X | 1.395 7.981 4.608 7.981 4.608 | 1.395 7.981 4.608 | 0 0 0 | %100 %100 |
| 5 6 7 8 9 10 11 12 13 | MP4A MP4A MP3A MP3A MP2A MP2A MP1A MP1A | X Z X Z X | 7.981 4.608 7.981 4.608 | 7.981 4.608 | 0 | %100 |
| 6 7 8 9 10 11 12 13 | MP4A MP3A MP3A MP2A MP2A MP1A MP1A | Z X Z X | 4.608 7.981 4.608 | 4.608 | 0 | |
| 7 8 9 10 11 12 13 | MP3A MP3A MP2A MP2A MP1A MP1A | X Z X | 7.981 4.608 | | | 0/ 400 |
| 8 9 10 11 12 13 | MP3A MP2A MP2A MP1A MP1A | ZX | 4.608 | 7.981 | | %100 |
| 9 10 11 12 13 | MP2A MP2A MP1A MP1A | ZX | | | 0 | %100 |
| 10 11 12 13 | MP2A MP1A MP1A | X | 7.004 | 4.608 | 0 | %100 |
| 11 12 13 | MP2A MP1A MP1A | 7 | 7.981 | 7.981 | 0 | %100 |
| 11 12 13 | MP1A MP1A | | 4.608 | 4.608 | 0 | %100 |
| 12 13 | MP1A | X | 7.981 | 7.981 | 0 | %100 |
| 13 | | Z | 4.608 | 4.608 | 0 | %100 |
| | M23 | X | .142 | .142 | 0 | %100 |
| | M23 | Z | .082 | .082 | 0 | %100 |
| 15 | M24 | X | 1.594 | 1.594 | 0 | %100 |
| 16 | M24 | Z | .92 | .92 | 0 | %100 |
| 17 | M25 | | | | | |
| | | X | 1.594 | 1.594 | 0 | %100 |
| 18 | M25 | Z | .92 | .92 | 0 | %100 |
| 19 | M26 | X | .142 | .142 | 0 | %100 |
| 20 | M26 | Z | .082 | .082 | 0 | %100 |
| 21 | M29 | X | 10.457 | 10.457 | 0 | %100 |
| 22 | M29 | Z | 6.037 | 6.037 | 0 | %100 |
| 23 | M32 | X | .717 | .717 | 0 | %100 |
| 24 | M32 | Z | .414 | .414 | 0 | %100 |
| 25 | M33 | X | 7.604 | 7.604 | 0 | %100 |
| 26 | M33 | Z | 4.39 | 4.39 | 0 | %100 |
| 27 | M34 | Х | 7.604 | 7.604 | 0 | %100 |
| 28 | M34 | Z | 4.39 | 4.39 | 0 | %100 |
| 29 | M35 | X | .717 | .717 | 0 | %100 |
| 30 | M35 | Z | .414 | .414 | 0 | %100 |
| 31 | M36 | X | 4.096 | 4.096 | 0 | %100 |
| 32 | M36 | Z | 2.365 | 2.365 | 0 | %100 |
| 33 | M37 | X | 4.096 | 4.096 | 0 | %100 |
| 34 | M37 | Z | 2.365 | 2.365 | 0 | %100 |
| | | | | | | |
| 35 | M38 | X | 4.096 | 4.096 | 0 | %100 |
| 36 | M38 | Z | 2.365 | 2.365 | 0 | %100 |
| 37 | M39 | X | 4.096 | 4.096 | 0 | %100 |
| 38 | M39 | Z | 2.365 | 2.365 | 0 | %100 |
| 39 | M40 | X | 6.153 | 6.153 | 0 | %100 |
| 40 | M40 | Z | 3.553 | 3.553 | 0 | %100 |
| 41 | M41 | X | 6.153 | 6.153 | 0 | %100 |
| 42 | M41 | Z | 3.553 | 3.553 | 0 | %100 |
| 43 | M42 | Х | 3.625 | 3.625 | 0 | %100 |
| 44 | M42 | Z | 2.093 | 2.093 | 0 | %100 |
| 45 | M43 | X | 3.319 | 3.319 | 0 | %100 |
| 46 | M43 | Z | 1.916 | 1.916 | 0 | %100 |
| 47 | M44 | X | 5.463 | 5.463 | 0 | %100 |
| 48 | M44 | Z | 3.154 | 3.154 | 0 | %100 |
| 40 | M45 | X | 5.477 | 5.477 | 0 | %100 |
| 50 | | Z | 3.162 | 3.162 | 0 | %100 |
| | M45 | | | | | |
| 51 | M46 | X | 5.485 | 5.485 | 0 | %100 |
| 52 | M46 | Z | 3.167 | 3.167 | 0 | %100 |
| 53 | M47 | X | 5.485 | 5.485 | 0 | %100 |
| 54 | M47 | Z | 3.167 | 3.167 | 0 | %100 |
| 55 | M48 | X | 5.485 | 5.485 | 0 | %100 |
| 56 | M48 | Z | 3.167 | 3.167 | 0 | %100 |
| 57 | M49 | X | 5.485 | 5.485 | 0 | %100 |

RISA-3D Version 17.0.4 [\...\...\...\...\...\...\...\...\Rev 0\RISA\467126-VZW_MT_LOT_A_H.r3d] Page 37

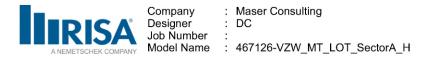


Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 58 | M49 | Z | 3.167 | 3.167 | 0 | %100 |
| 59 | M50 | Х | 4.727 | 4.727 | 0 | %100 |
| 60 | M50 | Z | 2.729 | 2.729 | 0 | %100 |

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

| Member Label Direction Start Magnitudel[b/t,E., End Magnitudel[b/t,E., Start Localion[ft,%] End Localion[ft,%] 2 M1 Z 7.246 7.246 0 %100 3 M2 X 4.184 0 %100 4 M2 Z 7.246 7.246 0 %100 5 MP4A X 4.608 4.608 0 %100 6 MP4A Z 7.981 7.981 0 %100 7 MP3A X 4.608 4.608 0 %100 9 MP2A Z 7.981 7.981 0 %100 11 MP1A Z 7.981 7.981 0 %100 13 M23 X 0.5 0.5 0 %100 14 M23 X 0.5 0.5 0 %100 14 M24 X .888 .888 0 %100 15 M24 | | | | | | | |
|---|----|--------------|-----------|-------|-------|---|--------------------|
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | Member Label | Direction | | | | End Location[ft,%] |
| $ \begin{array}{c cccccccccccccccccccccccccccccccccc$ | | | X | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | |
| | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | X | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 14M23Z.086.086.0 $\%100$ 15M24X.888.888.0 $\%100$ 16M24Z1.538.15380 $\%100$ 17M25X.888.888.0 $\%100$ 18M25Z1.5381.5380 $\%100$ 19M26X.05.050 $\%100$ 20M26Z.086.0860 $\%100$ 21M29X.6.0376.0370 $\%100$ 22M29Z10.45710.4570 $\%100$ 23M32X.218.2180 $\%100$ 24M32Z.72657.2650 $\%100$ 25M33X4.1944.1940 $\%100$ 26M33Z7.2657.2650 $\%100$ 27M34X4.1944.1940 $\%100$ 28M34Z7.2657.2650 $\%100$ 30M35Z.378.3780 $\%100$ 31M36X4.6694.6690 $\%100$ 33M37X4.6694.6690 $\%100$ 34M37Z8.0868.0860 $\%100$ 35M38X4.6694.6690 $\%100$ 36M38Z8.0868.0860 $\%100$ 37M39X4.669< | | | | | | | |
| 15M24X.888.8880 $\%100$ 16M24Z1.5381.5380 $\%100$ 17M25X.888.8880 $\%100$ 18M25Z1.5381.5380 $\%100$ 19M26X.05.050 $\%100$ 20M26Z.086.0860 $\%100$ 21M29X6.0376.0370 $\%100$ 23M32X.218.2180 $\%100$ 24M32Z.378.3780 $\%100$ 25M33X4.1944.1940 $\%100$ 26M33Z7.2657.2650 $\%100$ 27M34X4.1944.1940 $\%100$ 28M34Z7.2657.2650 $\%100$ 29M35X.218.2180 $\%100$ 30M35Z.378.3780 $\%100$ 31M36X4.6694.6690 $\%100$ 32M36Z8.0868.0860 $\%100$ 33M37X4.6694.6690 $\%100$ 34M37Z8.0868.0860 $\%100$ 35M38X4.6694.6690 $\%100$ 36M38Z8.0868.0860 $\%100$ 37M39X4.6694.669 | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 18 | M25 | Z | 1.538 | 1.538 | 0 | %100 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | M26 | X | | | 0 | %100 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 20 | M26 | Z | .086 | .086 | 0 | %100 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 21 | M29 | Х | 6.037 | 6.037 | 0 | %100 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | M29 | | | | 0 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 23 | M32 | Х | .218 | .218 | 0 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | %100 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | Х | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | Z | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | Х | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 32 M36 Z 8.086 8.086 0 %100 33 M37 X 4.669 4.669 0 %100 34 M37 Z 8.086 8.086 0 %100 35 M38 X 4.669 4.669 0 %100 36 M38 Z 8.086 8.086 0 %100 37 M39 X 4.669 4.669 0 %100 38 M39 Z 8.086 8.086 0 %100 39 M40 X 3.553 3.553 0 %100 41 M41 X 3.553 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.21 3.21 0 %100 45 M43 | | | | | | | |
| 33 M37 X 4.669 4.669 0 %100 34 M37 Z 8.086 8.086 0 %100 35 M38 X 4.669 4.669 0 %100 36 M38 Z 8.086 8.086 0 %100 37 M39 X 4.669 4.669 0 %100 38 M39 Z 8.086 8.086 0 %100 39 M40 X 3.553 3.553 0 %100 41 M41 X 3.553 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 Z 3.21 3.21 0 %100 46 M43 | | | | | | | |
| 34 M37 Z 8.086 8.086 0 %100 35 M38 X 4.669 4.669 0 %100 36 M38 Z 8.086 8.086 0 %100 37 M39 X 4.669 4.669 0 %100 38 M39 Z 8.086 8.086 0 %100 39 M40 X 3.553 3.553 0 %100 41 M41 X 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 X <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | |
| 35 M38 X 4.669 4.669 0 %100 36 M38 Z 8.086 8.086 0 %100 37 M39 X 4.669 4.669 0 %100 38 M39 Z 8.086 8.086 0 %100 39 M40 X 3.553 3.553 0 %100 40 M40 Z 6.153 6.153 0 %100 41 M41 X 3.553 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 | | | | | | | |
| 36 M38 Z 8.086 8.086 0 %100 37 M39 X 4.669 4.669 0 %100 38 M39 Z 8.086 8.086 0 %100 39 M40 X 3.553 3.553 0 %100 40 M40 Z 6.153 6.153 0 %100 41 M41 X 3.553 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 X 3.091 3.091 0 %100 48 M44 | | | | | | | |
| 37 M39 X 4.669 4.669 0 %100 38 M39 Z 8.086 8.086 0 %100 39 M40 X 3.553 3.553 0 %100 40 M40 Z 6.153 6.153 0 %100 41 M41 X 3.553 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.091 0 %100 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| 38 M39 Z 8.086 8.086 0 %100 39 M40 X 3.553 3.553 0 %100 40 M40 Z 6.153 6.153 0 %100 41 M41 X 3.553 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 X 3.091 3.091 0 %100 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| 39 M40 X 3.553 3.553 0 %100 40 M40 Z 6.153 6.153 0 %100 41 M41 X 3.553 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 X 3.091 3.091 0 %100 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| 40M40Z6.1536.1530%10041M41X3.5533.5530%10042M41Z6.1536.1530%10043M42X2.042.040%10044M42Z3.5343.5340%10045M43X1.8531.8530%10046M43Z3.213.210%10047M44X3.0913.0910%10048M44Z5.3535.3530%10049M45X3.113.110%100 | | | | | | | |
| 41 M41 X 3.553 3.553 0 %100 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 X 3.091 3.091 0 %100 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| 42 M41 Z 6.153 6.153 0 %100 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 X 3.091 3.091 0 %100 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| 43 M42 X 2.04 2.04 0 %100 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 X 3.091 3.091 0 %100 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | 7 | | | | |
| 44 M42 Z 3.534 3.534 0 %100 45 M43 X 1.853 1.853 0 %100 46 M43 Z 3.21 3.21 0 %100 47 M44 X 3.091 3.091 0 %100 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| 45M43X1.8531.8530%10046M43Z3.213.210%10047M44X3.0913.0910%10048M44Z5.3535.3530%10049M45X3.113.110%100 | | | | | | | |
| 46 M43 Z 3.21 3.21 0 %100 47 M44 X 3.091 3.091 0 %100 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| 47M44X3.0913.0910%10048M44Z5.3535.3530%10049M45X3.113.110%100 | | | | | | | |
| 48 M44 Z 5.353 5.353 0 %100 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| 49 M45 X 3.11 3.11 0 %100 | | | | | | | |
| | | | | | | | |
| 00 IVI40 ∠ 0.380 0.380 0 %100 | | | | | | | |
| | 50 | 10140 | Z | 0.380 | 0.380 | 0 | 70100 |

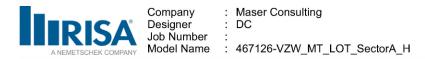


Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 51 | M46 | X | 3.167 | 3.167 | 0 | %100 |
| 52 | M46 | Z | 5.485 | 5.485 | 0 | %100 |
| 53 | M47 | X | 3.167 | 3.167 | 0 | %100 |
| 54 | M47 | Z | 5.485 | 5.485 | 0 | %100 |
| 55 | M48 | Х | 3.167 | 3.167 | 0 | %100 |
| 56 | M48 | Z | 5.485 | 5.485 | 0 | %100 |
| 57 | M49 | X | 3.167 | 3.167 | 0 | %100 |
| 58 | M49 | Z | 5.485 | 5.485 | 0 | %100 |
| 59 | M50 | X | .555 | .555 | 0 | %100 |
| 60 | M50 | Z | .962 | .962 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 11.156 | 11.156 | 0 | %100 |
| 3 | M2 | Х | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 11.156 | 11.156 | 0 | %100 |
| 5 | MP4A | Х | 0 | 0 | 0 | %100 |
| 6 | MP4A | Z | 9.216 | 9.216 | 0 | %100 |
| 7 | MP3A | X | 0 | 0 | 0 | %100 |
| 8 | MP3A | Z | 9.216 | 9.216 | 0 | %100 |
| 9 | MP2A | X | 0 | 0 | 0 | %100 |
| 10 | MP2A | Z | 9.216 | 9.216 | 0 | %100 |
| 11 | MP1A | X | 0 | 0 | 0 | %100 |
| 12 | MP1A | Z | 9.216 | 9.216 | 0 | %100 |
| 13 | M23 | X | 0 | 0 | 0 | %100 |
| 14 | M23 | Z | .906 | .906 | 0 | %100 |
| 15 | M24 | X | 0 | 0 | 0 | %100 |
| 16 | M24 | Z | .906 | .906 | 0 | %100 |
| 17 | M25 | X | 0 | 0 | 0 | %100 |
| 18 | M25 | Z | .906 | .906 | 0 | %100 |
| 19 | M26 | Χ | 0 | 0 | 0 | %100 |
| 20 | M26 | Z | .906 | .906 | 0 | %100 |
| 21 | M29 | Χ | 0 | 0 | 0 | %100 |
| 22 | M29 | Z | 12.074 | 12.074 | 0 | %100 |
| 23 | M32 | X | 0 | 0 | 0 | %100 |
| 24 | M32 | Z | 4.216 | 4.216 | 0 | %100 |
| 25 | M33 | X | 0 | 0 | 0 | %100 |
| 26 | M33 | Z | 4.216 | 4.216 | 0 | %100 |
| 27 | M34 | X | 0 | 0 | 0 | %100 |
| 28 | M34 | Z | 4.216 | 4.216 | 0 | %100 |
| 29 | M35 | X | 0 | 0 | 0 | %100 |
| 30 | M35 | Z | 4.216 | 4.216 | 0 | %100 |
| 31 | M36 | Х | 0 | 0 | 0 | %100 |
| 32 | M36 | Z | 11.642 | 11.642 | 0 | %100 |
| 33 | M37 | Х | 0 | 0 | 0 | %100 |
| 34 | M37 | Z | 11.642 | 11.642 | 0 | %100 |
| 35 | M38 | X | 0 | 0 | 0 | %100 |
| 36 | M38 | Z | 11.642 | 11.642 | 0 | %100 |
| 37 | M39 | X | 0 | 0 | 0 | %100 |
| 38 | M39 | Z | 11.642 | 11.642 | 0 | %100 |
| 39 | M40 | X | 0 | 0 | 0 | %100 |
| 40 | M40 | Z | 7.105 | 7.105 | 0 | %100 |
| 41 | M41 | X | 0 | 0 | 0 | %100 |
| 42 | M41 | Z | 7.105 | 7.105 | 0 | %100 |
| 43 | M42 | Х | 0 | 0 | 0 | %100 |
| | | | | | | |

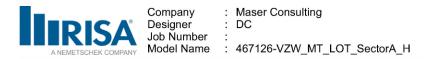


Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 44 | M42 | Z | 5.097 | 5.097 | 0 | %100 |
| 45 | M43 | Х | 0 | 0 | 0 | %100 |
| 46 | M43 | Z | 4.881 | 4.881 | 0 | %100 |
| 47 | M44 | Х | 0 | 0 | 0 | %100 |
| 48 | M44 | Z | 4.881 | 4.881 | 0 | %100 |
| 49 | M45 | Х | 0 | 0 | 0 | %100 |
| 50 | M45 | Z | 5.097 | 5.097 | 0 | %100 |
| 51 | M46 | Х | 0 | 0 | 0 | %100 |
| 52 | M46 | Z | 6.334 | 6.334 | 0 | %100 |
| 53 | M47 | Х | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | 6.334 | 6.334 | 0 | %100 |
| 55 | M48 | Х | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | 6.334 | 6.334 | 0 | %100 |
| 57 | M49 | Х | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | 6.334 | 6.334 | 0 | %100 |
| 59 | M50 | Х | 0 | 0 | 0 | %100 |
| 60 | M50 | Z | .261 | .261 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | -4.184 | -4.184 | 0 | %100 |
| 2 | M1 | Z | 7.246 | 7.246 | 0 | %100 |
| 3 | M2 | Х | -4.184 | -4.184 | 0 | %100 |
| 4 | M2 | Z | 7.246 | 7.246 | 0 | %100 |
| 5 | MP4A | Х | -4.608 | -4.608 | 0 | %100 |
| 6 | MP4A | Z | 7.981 | 7.981 | 0 | %100 |
| 7 | MP3A | Х | -4.608 | -4.608 | 0 | %100 |
| 8 | MP3A | Z | 7.981 | 7.981 | 0 | %100 |
| 9 | MP2A | Х | -4.608 | -4.608 | 0 | %100 |
| 10 | MP2A | Z | 7.981 | 7.981 | 0 | %100 |
| 11 | MP1A | X | -4.608 | -4.608 | 0 | %100 |
| 12 | MP1A | Z | 7.981 | 7.981 | 0 | %100 |
| 13 | M23 | X | 888 | 888 | 0 | %100 |
| 14 | M23 | Z | 1.538 | 1.538 | 0 | %100 |
| 15 | M24 | X | 05 | 05 | 0 | %100 |
| 16 | M24 | Z | .086 | .086 | 0 | %100 |
| 17 | M25 | X | 05 | 05 | 0 | %100 |
| 18 | M25 | Z | .086 | .086 | 0 | %100 |
| 19 | M26 | Х | 888 | 888 | 0 | %100 |
| 20 | M26 | Z | 1.538 | 1.538 | 0 | %100 |
| 21 | M29 | X | -6.037 | -6.037 | 0 | %100 |
| 22 | M29 | Z | 10.457 | 10.457 | 0 | %100 |
| 23 | M32 | Х | -4.194 | -4.194 | 0 | %100 |
| 24 | M32 | Z | 7.265 | 7.265 | 0 | %100 |
| 25 | M33 | Х | 218 | 218 | 0 | %100 |
| 26 | M33 | Z | .378 | .378 | 0 | %100 |
| 27 | M34 | Χ | 218 | 218 | 0 | %100 |
| 28 | M34 | Z | .378 | .378 | 0 | %100 |
| 29 | M35 | Х | -4.194 | -4.194 | 0 | %100 |
| 30 | M35 | Z | 7.265 | 7.265 | 0 | %100 |
| 31 | M36 | X | -4.669 | -4.669 | 0 | %100 |
| 32 | M36 | Z | 8.086 | 8.086 | 0 | %100 |
| 33 | M37 | X | -4.669 | -4.669 | 0 | %100 |
| 34 | M37 | Z | 8.086 | 8.086 | 0 | %100 |
| 35 | M38 | Х | -4.669 | -4.669 | 0 | %100 |
| 36 | M38 | Z | 8.086 | 8.086 | 0 | %100 |
| | | | | | | |

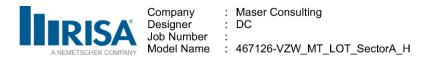


Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 37 | M39 | Х | -4.669 | -4.669 | 0 | %100 |
| 38 | M39 | Z | 8.086 | 8.086 | 0 | %100 |
| 39 | M40 | Х | -3.553 | -3.553 | 0 | %100 |
| 40 | M40 | Z | 6.153 | 6.153 | 0 | %100 |
| 41 | M41 | Х | -3.553 | -3.553 | 0 | %100 |
| 42 | M41 | Z | 6.153 | 6.153 | 0 | %100 |
| 43 | M42 | X | -3.11 | -3.11 | 0 | %100 |
| 44 | M42 | Z | 5.386 | 5.386 | 0 | %100 |
| 45 | M43 | Х | -3.091 | -3.091 | 0 | %100 |
| 46 | M43 | Z | 5.353 | 5.353 | 0 | %100 |
| 47 | M44 | X | -1.853 | -1.853 | 0 | %100 |
| 48 | M44 | Z | 3.21 | 3.21 | 0 | %100 |
| 49 | M45 | Х | -2.04 | -2.04 | 0 | %100 |
| 50 | M45 | Z | 3.534 | 3.534 | 0 | %100 |
| 51 | M46 | Х | -3.167 | -3.167 | 0 | %100 |
| 52 | M46 | Z | 5.485 | 5.485 | 0 | %100 |
| 53 | M47 | Х | -3.167 | -3.167 | 0 | %100 |
| 54 | M47 | Z | 5.485 | 5.485 | 0 | %100 |
| 55 | M48 | Х | -3.167 | -3.167 | 0 | %100 |
| 56 | M48 | Z | 5.485 | 5.485 | 0 | %100 |
| 57 | M49 | Х | -3.167 | -3.167 | 0 | %100 |
| 58 | M49 | Z | 5.485 | 5.485 | 0 | %100 |
| 59 | M50 | Х | -1.879 | -1.879 | 0 | %100 |
| 60 | M50 | Z | 3.255 | 3.255 | 0 | %100 |

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

| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|---|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | M1 | X | -2.415 | -2.415 | 0 | %100 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 2 | M1 | | 1.395 | 1.395 | 0 | %100 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 3 | M2 | | -2.415 | -2.415 | 0 | %100 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 4 | M2 | Z | 1.395 | 1.395 | 0 | %100 |
| 7 MP3A X -7.981 -7.981 0 %100 8 MP3A Z 4.608 4.608 0 %100 9 MP2A X -7.981 -7.981 0 %100 10 MP2A Z 4.608 4.608 0 %100 11 MP1A X -7.981 -7.981 0 %100 12 MP1A Z 4.608 4.608 0 %100 13 M23 X -1.594 -1.594 0 %100 14 M23 Z .92 .92 0 %100 15 M24 X 142 .082 .082 0 %100 17 M25 X 142 .142 0 %100 18 M25 Z .082 .082 0 %100 20 M26 Z .92 .92 0 %100 21 <td< td=""><td>5</td><td>MP4A</td><td></td><td>-7.981</td><td>-7.981</td><td>0</td><td>%100</td></td<> | 5 | MP4A | | -7.981 | -7.981 | 0 | %100 |
| 8 MP3A Z 4.608 4.608 0 %100 9 MP2A X -7.981 -7.981 0 %100 10 MP2A Z 4.608 4.608 0 %100 11 MP1A X -7.981 -7.981 0 %100 12 MP1A Z 4.608 4.608 0 %100 13 M23 X -1.594 -0 %100 14 M23 Z .92 .92 0 %100 15 M24 X 142 142 0 %100 16 M24 Z .082 .082 0 %100 18 M25 Z .082 .0 %100 %100 21 M29 X -10.457 -10.457 0 %100 22 M29 Z 6.037 6.037 0 %100 22 M29 Z | 6 | MP4A | | 4.608 | 4.608 | 0 | %100 |
| 9 MP2A X -7.981 -7.981 0 %100 10 MP2A Z 4.608 4.608 0 %100 11 MP1A X -7.981 -7.981 0 %100 12 MP1A Z 4.608 4.608 0 %100 13 M23 X -1.594 -1.594 0 %100 14 M23 Z .92 .92 0 %100 15 M24 X 142 .1594 0 %100 16 M24 Z .082 .082 0 %100 17 M25 X 142 .142 0 %100 18 M25 Z .082 .082 0 %100 20 M26 X -1.594 -1.594 0 %100 21 M29 X -10.457 -10.457 0 %100 22 M29 </td <td>7</td> <td>MP3A</td> <td></td> <td>-7.981</td> <td>-7.981</td> <td>0</td> <td>%100</td> | 7 | MP3A | | -7.981 | -7.981 | 0 | %100 |
| 10 MP2A Z 4.608 4.608 0 %100 11 MP1A X -7.981 -7.981 0 %100 12 MP1A Z 4.608 4.608 0 %100 13 M23 X -1.594 -1.594 0 %100 14 M23 Z .92 .92 0 %100 15 M24 X 142 142 0 %100 16 M24 Z .082 .082 0 %100 18 M25 Z .082 .082 0 %100 20 M26 Z .92 .0 %100 %100 21 M29 X 142 .1594 -1.594 0 %100 22 M26 Z .92 .92 0 %100 23 M32 X .7.604 .7.604 0 %100 24 | 8 | MP3A | Z | 4.608 | 4.608 | 0 | %100 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 9 | MP2A | | -7.981 | -7.981 | 0 | %100 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 10 | MP2A | | 4.608 | 4.608 | 0 | %100 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | MP1A | | -7.981 | -7.981 | 0 | %100 |
| 14 M23 Z .92 .92 0 %100 15 M24 X 142 142 0 %100 16 M24 Z .082 .082 0 %100 17 M25 X 142 142 0 %100 18 M25 Z .082 .082 0 %100 19 M26 X -1.594 -1.594 0 %100 20 M26 Z .92 .92 0 %100 21 M29 X -10.457 -10.457 0 %100 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 28 M34 <t< td=""><td>12</td><td>MP1A</td><td>Z</td><td>4.608</td><td>4.608</td><td>0</td><td>%100</td></t<> | 12 | MP1A | Z | 4.608 | 4.608 | 0 | %100 |
| 15 M24 X 142 142 0 %100 16 M24 Z .082 .082 0 %100 17 M25 X 142 142 0 %100 18 M25 Z .082 .082 0 %100 19 M26 X -1.594 -1.594 0 %100 20 M26 Z .92 .92 0 %100 21 M29 X -10.457 -10.457 0 %100 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 28 M34 Z .414 .414 0 %100 | 13 | M23 | X | -1.594 | -1.594 | 0 | %100 |
| 16M24Z.082.0820%10017M25X1421420%10018M25Z.082.0820%10019M26X-1.594-1.5940%10020M26Z.92.920%10021M29X-10.457-10.4570%10023M32X-7.604-7.6040%10024M32Z4.394.390%10025M33X7177170%10026M33Z.414.4140%10028M34Z.414.4140%100 | | M23 | | .92 | .92 | 0 | %100 |
| 17 M25 X 142 142 0 %100 18 M25 Z .082 .082 0 %100 19 M26 X -1.594 -1.594 0 %100 20 M26 Z .92 .92 0 %100 21 M29 X -10.457 -10.457 0 %100 22 M29 Z 6.037 6.037 0 %100 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 28 M34 Z .414 .414 0 %100 | | M24 | | 142 | 142 | 0 | %100 |
| 18 M25 Z .082 .082 0 %100 19 M26 X -1.594 -1.594 0 %100 20 M26 Z .92 .92 0 %100 21 M29 X -10.457 -10.457 0 %100 22 M29 Z 6.037 6.037 0 %100 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 27 M34 X 717 717 0 %100 28 M34 Z .414 .414 0 %100 | | M24 | | .082 | .082 | | %100 |
| 19 M26 X -1.594 -1.594 0 %100 20 M26 Z .92 .92 0 %100 21 M29 X -10.457 -10.457 0 %100 22 M29 Z 6.037 6.037 0 %100 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 27 M34 X 717 0 %100 28 M34 Z .414 .414 0 %100 | 17 | M25 | X | 142 | 142 | 0 | %100 |
| 20 M26 Z .92 .92 0 %100 21 M29 X -10.457 -10.457 0 %100 22 M29 Z 6.037 6.037 0 %100 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 27 M34 X 717 .717 0 %100 28 M34 Z .414 .414 0 %100 | 18 | M25 | Z | .082 | .082 | 0 | %100 |
| 21 M29 X -10.457 -10.457 0 %100 22 M29 Z 6.037 6.037 0 %100 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 27 M34 X 717 .717 0 %100 28 M34 Z .414 .414 0 %100 | 19 | M26 | | -1.594 | -1.594 | 0 | %100 |
| 22 M29 Z 6.037 6.037 0 %100 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 27 M34 X 717 717 0 %100 28 M34 Z .414 .414 0 %100 | | M26 | | .92 | .92 | 0 | %100 |
| 23 M32 X -7.604 -7.604 0 %100 24 M32 Z 4.39 4.39 0 %100 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 27 M34 X 717 717 0 %100 28 M34 Z .414 .414 0 %100 | | | | -10.457 | | | |
| 24M32Z4.394.390%10025M33X7177170%10026M33Z.414.4140%10027M34X7177170%10028M34Z.414.4140%100 | | M29 | | 6.037 | 6.037 | 0 | %100 |
| 25 M33 X 717 717 0 %100 26 M33 Z .414 .414 0 %100 27 M34 X 717 717 0 %100 28 M34 Z .414 .414 0 %100 | | M32 | X | -7.604 | -7.604 | | %100 |
| 26 M33 Z .414 .414 0 %100 27 M34 X 717 717 0 %100 28 M34 Z .414 .414 0 %100 | | M32 | | 4.39 | 4.39 | 0 | %100 |
| 27 M34 X 717 717 0 %100 28 M34 Z .414 .414 0 %100 | | M33 | X | | | | |
| 28 M34 Z .414 .414 0 %100 | | M33 | | .414 | .414 | 0 | %100 |
| | | M34 | | 717 | 717 | | |
| 29 M35 X -7 604 -7 604 0 %100 | | | | .414 | .414 | | |
| | 29 | M35 | X | -7.604 | -7.604 | 0 | %100 |

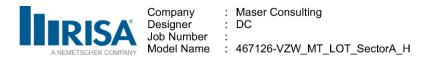


Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 30 | M35 | Z | 4.39 | 4.39 | 0 | %100 |
| 31 | M36 | Х | -4.096 | -4.096 | 0 | %100 |
| 32 | M36 | Z | 2.365 | 2.365 | 0 | %100 |
| 33 | M37 | Х | -4.096 | -4.096 | 0 | %100 |
| 34 | M37 | Z | 2.365 | 2.365 | 0 | %100 |
| 35 | M38 | Х | -4.096 | -4.096 | 0 | %100 |
| 36 | M38 | Z | 2.365 | 2.365 | 0 | %100 |
| 37 | M39 | Х | -4.096 | -4.096 | 0 | %100 |
| 38 | M39 | Z | 2.365 | 2.365 | 0 | %100 |
| 39 | M40 | Х | -6.153 | -6.153 | 0 | %100 |
| 40 | M40 | Z | 3.553 | 3.553 | 0 | %100 |
| 41 | M41 | Х | -6.153 | -6.153 | 0 | %100 |
| 42 | M41 | Z | 3.553 | 3.553 | 0 | %100 |
| 43 | M42 | Х | -5.477 | -5.477 | 0 | %100 |
| 44 | M42 | Z | 3.162 | 3.162 | 0 | %100 |
| 45 | M43 | Х | -5.463 | -5.463 | 0 | %100 |
| 46 | M43 | Z | 3.154 | 3.154 | 0 | %100 |
| 47 | M44 | Х | -3.319 | -3.319 | 0 | %100 |
| 48 | M44 | Z | 1.916 | 1.916 | 0 | %100 |
| 49 | M45 | Х | -3.625 | -3.625 | 0 | %100 |
| 50 | M45 | Z | 2.093 | 2.093 | 0 | %100 |
| 51 | M46 | Х | -5.485 | -5.485 | 0 | %100 |
| 52 | M46 | Z | 3.167 | 3.167 | 0 | %100 |
| 53 | M47 | Х | -5.485 | -5.485 | 0 | %100 |
| 54 | M47 | Z | 3.167 | 3.167 | 0 | %100 |
| 55 | M48 | Х | -5.485 | -5.485 | 0 | %100 |
| 56 | M48 | Z | 3.167 | 3.167 | 0 | %100 |
| 57 | M49 | Х | -5.485 | -5.485 | 0 | %100 |
| 58 | M49 | Z | 3.167 | 3.167 | 0 | %100 |
| 59 | M50 | Х | -7.02 | -7.02 | 0 | %100 |
| 60 | M50 | Z | 4.053 | 4.053 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | Х | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | MP4A | Х | -9.216 | -9.216 | 0 | %100 |
| 6 | MP4A | Z | 0 | 0 | 0 | %100 |
| 7 | MP3A | Х | -9.216 | -9.216 | 0 | %100 |
| 8 | MP3A | Z | 0 | 0 | 0 | %100 |
| 9 | MP2A | Х | -9.216 | -9.216 | 0 | %100 |
| 10 | MP2A | Z | 0 | 0 | 0 | %100 |
| 11 | MP1A | Х | -9.216 | -9.216 | 0 | %100 |
| 12 | MP1A | Z | 0 | 0 | 0 | %100 |
| 13 | M23 | Х | -1.034 | -1.034 | 0 | %100 |
| 14 | M23 | Z | 0 | 0 | 0 | %100 |
| 15 | M24 | Х | -1.034 | -1.034 | 0 | %100 |
| 16 | M24 | Z | 0 | 0 | 0 | %100 |
| 17 | M25 | Х | -1.034 | -1.034 | 0 | %100 |
| 18 | M25 | Z | 0 | 0 | 0 | %100 |
| 19 | M26 | Х | -1.034 | -1.034 | 0 | %100 |
| 20 | M26 | Z | 0 | 0 | 0 | %100 |
| 21 | M29 | Х | -12.074 | -12.074 | 0 | %100 |
| 22 | M29 | Z | 0 | 0 | 0 | %100 |

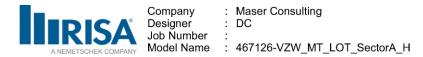


Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 23 | M32 | Х | -5 | -5 | 0 | %100 |
| 24 | M32 | Z | 0 | 0 | 0 | %100 |
| 25 | M33 | Х | -5 | -5 | 0 | %100 |
| 26 | M33 | Z | 0 | 0 | 0 | %100 |
| 27 | M34 | Х | -5 | -5 | 0 | %100 |
| 28 | M34 | Z | 0 | 0 | 0 | %100 |
| 29 | M35 | Х | -5 | -5 | 0 | %100 |
| 30 | M35 | Z | 0 | 0 | 0 | %100 |
| 31 | M36 | Х | -2.425 | -2.425 | 0 | %100 |
| 32 | M36 | Z | 0 | 0 | 0 | %100 |
| 33 | M37 | Х | -2.425 | -2.425 | 0 | %100 |
| 34 | M37 | Z | 0 | 0 | 0 | %100 |
| 35 | M38 | Х | -2.425 | -2.425 | 0 | %100 |
| 36 | M38 | Z | 0 | 0 | 0 | %100 |
| 37 | M39 | Х | -2.425 | -2.425 | 0 | %100 |
| 38 | M39 | Z | 0 | 0 | 0 | %100 |
| 39 | M40 | Х | -7.105 | -7.105 | 0 | %100 |
| 40 | M40 | Z | 0 | 0 | 0 | %100 |
| 41 | M41 | Х | -7.105 | -7.105 | 0 | %100 |
| 42 | M41 | Z | 0 | 0 | 0 | %100 |
| 43 | M42 | Х | -5.308 | -5.308 | 0 | %100 |
| 44 | M42 | Z | 0 | 0 | 0 | %100 |
| 45 | M43 | Х | -5.133 | -5.133 | 0 | %100 |
| 46 | M43 | Z | 0 | 0 | 0 | %100 |
| 47 | M44 | Х | -5.133 | -5.133 | 0 | %100 |
| 48 | M44 | Z | 0 | 0 | 0 | %100 |
| 49 | M45 | Х | -5.308 | -5.308 | 0 | %100 |
| 50 | M45 | Z | 0 | 0 | 0 | %100 |
| 51 | M46 | Х | -6.334 | -6.334 | 0 | %100 |
| 52 | M46 | Z | 0 | 0 | 0 | %100 |
| 53 | M47 | X | -6.334 | -6.334 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | X | -6.334 | -6.334 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | X | -6.334 | -6.334 | 0 | %100 |
| 58 | M49 | Z | 0 | 0 | Ő | %100 |
| 59 | M50 | X | -8.955 | -8.955 | 0 | %100 |
| 60 | M50 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | -2.415 | -2.415 | 0 | %100 |
| 2 | M1 | Z | -1.395 | -1.395 | 0 | %100 |
| 3 | M2 | Х | -2.415 | -2.415 | 0 | %100 |
| 4 | M2 | Z | -1.395 | -1.395 | 0 | %100 |
| 5 | MP4A | Х | -7.981 | -7.981 | 0 | %100 |
| 6 | MP4A | Z | -4.608 | -4.608 | 0 | %100 |
| 7 | MP3A | Х | -7.981 | -7.981 | 0 | %100 |
| 8 | MP3A | Z | -4.608 | -4.608 | 0 | %100 |
| 9 | MP2A | Х | -7.981 | -7.981 | 0 | %100 |
| 10 | MP2A | Z | -4.608 | -4.608 | 0 | %100 |
| 11 | MP1A | Х | -7.981 | -7.981 | 0 | %100 |
| 12 | MP1A | Z | -4.608 | -4.608 | 0 | %100 |
| 13 | M23 | Х | 142 | 142 | 0 | %100 |
| 14 | M23 | Z | 082 | 082 | 0 | %100 |
| 15 | M24 | Х | -1.594 | -1.594 | 0 | %100 |

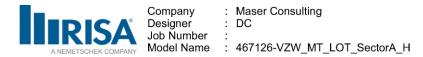


Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|------------------------|------------------------|--------------------|
| 16 | M24 | Z | 92 | 92 | 0 | %100 |
| 17 | M25 | Х | -1.594 | -1.594 | 0 | %100 |
| 18 | M25 | Z | 92 | 92 | 0 | %100 |
| 19 | M26 | X | 142 | 142 | 0 | %100 |
| 20 | M26 | Z | 082 | 082 | 0 | %100 |
| 21 | M29 | × | -10.457 | -10.457 | 0 | %100 |
| 22 | M29 | Z | -6.037 | -6.037 | 0 | %100 |
| 23 | M32 | Х | 717 | 717 | 0 | %100 |
| 24 | M32 | Z | 414 | 414 | 0 | %100 |
| 25 | M33 | X | -7.604 | -7.604 | 0 | %100 |
| 26 | M33 | Z | -4.39 | -4.39 | 0 | %100 |
| 27 | M34 | X | -7.604 | -7.604 | 0 | %100 |
| 28 | M34 | Z | -4.39 | -4.39 | 0 | %100 |
| 29 | M35 | X | 717 | 717 | 0 | %100 |
| 30 | M35 | Z | 414 | 414 | 0 | %100 |
| 31 | M36 | Х | -4.096 | -4.096 | 0 | %100 |
| 32 | M36 | Z | -2.365 | -2.365 | 0 | %100 |
| 33 | M37 | Х | -4.096 | -4.096 | 0 | %100 |
| 34 | M37 | Z | -2.365 | -2.365 | 0 | %100 |
| 35 | M38 | Х | -4.096 | -4.096 | 0 | %100 |
| 36 | M38 | Z | -2.365 | -2.365 | 0 | %100 |
| 37 | M39 | Х | -4.096 | -4.096 | 0 | %100 |
| 38 | M39 | Z | -2.365 | -2.365 | 0 | %100 |
| 39 | M40 | Х | -6.153 | -6.153 | 0 | %100 |
| 40 | M40 | Z | -3.553 | -3.553 | 0 | %100 |
| 41 | M41 | Х | -6.153 | -6.153 | 0 | %100 |
| 42 | M41 | Z | -3.553 | -3.553 | 0 | %100 |
| 43 | M42 | Х | -3.625 | -3.625 | 0 | %100 |
| 44 | M42 | Z | -2.093 | -2.093 | 0 | %100 |
| 45 | M43 | Х | -3.319 | -3.319 | 0 | %100 |
| 46 | M43 | Z | -1.916 | -1.916 | 0 | %100 |
| 47 | M44 | Х | -5.463 | -5.463 | 0 | %100 |
| 48 | M44 | Z | -3.154 | -3.154 | 0 | %100 |
| 49 | M45 | X | -5.477 | -5.477 | 0 | %100 |
| 50 | M45 | Z | -3.162 | -3.162 | 0 | %100 |
| 51 | M46 | Х | -5.485 | -5.485 | 0 | %100 |
| 52 | M46 | Z | -3.167 | -3.167 | 0 | %100 |
| 53 | M47 | X | -5.485 | -5.485 | 0 | %100 |
| 54 | M47 | Z | -3.167 | -3.167 | 0 | %100 |
| 55 | M48 | Χ | -5.485 | -5.485 | 0 | %100 |
| 56 | M48 | Z | -3.167 | -3.167 | 0 | %100 |
| 57 | M49 | Χ | -5.485 | -5.485 | 0 | %100 |
| 58 | M49 | Z | -3.167 | -3.167 | 0 | %100 |
| 59 | M50 | Χ | -4.727 | -4.727 | 0 | %100 |
| 60 | M50 | Z | -2.729 | -2.729 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|---|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | X | -4.184 | -4.184 | 0 | %100 |
| 2 | M1 | Z | -7.246 | -7.246 | 0 | %100 |
| 3 | M2 | X | -4.184 | -4.184 | 0 | %100 |
| 4 | M2 | Z | -7.246 | -7.246 | 0 | %100 |
| 5 | MP4A | Х | -4.608 | -4.608 | 0 | %100 |
| 6 | MP4A | Z | -7.981 | -7.981 | 0 | %100 |
| 7 | MP3A | Х | -4.608 | -4.608 | 0 | %100 |
| 8 | MP3A | Z | -7.981 | -7.981 | 0 | %100 |



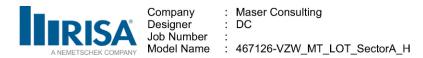
Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

| | Member Label | Direction | | End Magnitude[lb/ft,F | | End Location[ft,%] |
|----|--------------|-----------|---------|-----------------------|---|--------------------|
| 9 | MP2A | X | -4.608 | -4.608 | 0 | %100 |
| 10 | MP2A | Z | -7.981 | -7.981 | 0 | %100 |
| 11 | MP1A | X | -4.608 | -4.608 | 0 | %100 |
| 12 | MP1A | Z | -7.981 | -7.981 | 0 | %100 |
| 13 | M23 | X | 05 | 05 | 0 | %100 |
| 14 | M23 | Z | 086 | 086 | 0 | %100 |
| 15 | M24 | X | 888 | 888 | 0 | %100 |
| 16 | M24 | Z | -1.538 | -1.538 | 0 | %100 |
| 17 | M25 | X | 888 | 888 | 0 | %100 |
| 18 | M25 | Z | -1.538 | -1.538 | 0 | %100 |
| 19 | M26 | <u> </u> | 05 | 05 | 0 | %100 |
| 20 | M26 | Z | 086 | 086 | 0 | %100 |
| 21 | M29 | <u>X</u> | -6.037 | -6.037 | 0 | %100 |
| 22 | M29 | Z | -10.457 | -10.457 | 0 | %100 |
| 23 | M32 | <u> </u> | 218 | 218 | 0 | %100 |
| 24 | M32 | Z | 378 | 378 | 0 | %100 |
| 25 | M33 | <u>X</u> | -4.194 | -4.194 | 0 | %100 |
| 26 | M33 | Z | -7.265 | -7.265 | 0 | %100 |
| 27 | M34 | <u> </u> | -4.194 | -4.194 | 0 | %100 |
| 28 | M34 | Z | -7.265 | -7.265 | 0 | %100 |
| 29 | M35 | X | 218 | 218 | 0 | %100 |
| 30 | M35 | Z | 378 | 378 | 0 | %100 |
| 31 | M36 | <u> </u> | -4.669 | -4.669 | 0 | %100 |
| 32 | M36 | Z | -8.086 | -8.086 | 0 | %100 |
| 33 | M37 | X | -4.669 | -4.669 | 0 | %100 |
| 34 | M37 | Z | -8.086 | -8.086 | 0 | %100 |
| 35 | M38 | X | -4.669 | -4.669 | 0 | %100 |
| 36 | M38 | Z | -8.086 | -8.086 | 0 | %100 |
| 37 | M39 | X | -4.669 | -4.669 | 0 | %100 |
| 38 | M39 | Z | -8.086 | -8.086 | 0 | %100 |
| 39 | M40 | X | -3.553 | -3.553 | 0 | %100 |
| 40 | M40 | Z | -6.153 | -6.153 | 0 | %100 |
| 41 | M41 | X | -3.553 | -3.553 | 0 | %100 |
| 42 | M41 | Z | -6.153 | -6.153 | 0 | %100 |
| 43 | M42 | X | -2.04 | -2.04 | 0 | %100 |
| 44 | M42 | Z | -3.534 | -3.534 | 0 | %100 |
| 45 | M43 | Х | -1.853 | -1.853 | 0 | %100 |
| 46 | M43 | Z | -3.21 | -3.21 | 0 | %100 |
| 47 | M44 | X | -3.091 | -3.091 | 0 | %100 |
| 48 | M44 | Z | -5.353 | -5.353 | 0 | %100 |
| 49 | M45 | X | -3.11 | -3.11 | 0 | %100 |
| 50 | M45 | Z | -5.386 | -5.386 | 0 | %100 |
| 51 | M46 | X | -3.167 | -3.167 | 0 | %100 |
| 52 | M46 | Z | -5.485 | -5.485 | 0 | %100 |
| 53 | M47 | X | -3.167 | -3.167 | 0 | %100 |
| 54 | M47 | Z | -5.485 | -5.485 | 0 | %100 |
| 55 | M48 | X | -3.167 | -3.167 | 0 | %100 |
| 56 | M48 | Z | -5.485 | -5.485 | 0 | %100 |
| 57 | M49 | X | -3.167 | -3.167 | 0 | %100 |
| 58 | M49 | Z | -5.485 | -5.485 | 0 | %100 |
| 59 | M50 | X | 555 | 555 | 0 | %100 |
| 60 | M50 | Z | 962 | 962 | 0 | %100 |
| | | _ | | | 2 | |

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

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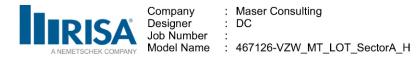
| | | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|---|---|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| | 1 | M1 | Х | 0 | 0 | 0 | %100 |
| _ | | | - | · | | | |
| _ | | | | | | | |



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

| | Member Label | Direction | Start Magnitude[lb/ft, | | _ | End Location[ft,% |
|-----|--------------|-----------|------------------------|--------|--------|-------------------|
| 2 | M1 | Z | -3.507 | -3.507 | 0 | %100 |
| 3 | M2 | X | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | -3.507 | -3.507 | 0 | %100 |
| 5 | MP4A | X | 0 | 0 | 0 | %100 |
| 6 | MP4A | Z | -3.17 | -3.17 | 0 | %100 |
| 7 | MP3A | X | 0 | 0 | 0 | %100 |
| 8 | MP3A | Z | -3.17 | -3.17 | 0 | %100 |
| 9 | MP2A | X | 0 | 0 | 0 | %100 |
| 10 | MP2A | Z | -3.175 | -3.175 | 0 | %100 |
| 11 | MP1A | X | 0 | 0 | 0 | %100 |
| 12 | | Z | -3.17 | | | |
| | MP1A | | | -3.17 | 0 | %100 |
| 13 | M23 | X | 0 | 0 | 0 | %100 |
| 14 | M23 | Z | 591 | 591 | 0 | %100 |
| 15 | M24 | X | 0 | 0 | 0 | %100 |
| 16 | M24 | Z | 591 | 591 | 0 | %100 |
| 17 | M25 | X | 0 | 0 | 0 | %100 |
| 18 | M25 | Z | 591 | 591 | 0 | %100 |
| 19 | M26 | X | 0 | 0 | 0 | %100 |
| 20 | M26 | Z | 591 | 591 | 0 | %100 |
| 21 | M29 | Х | 0 | 0 | 0 | %100 |
| 22 | M29 | Z | -4.086 | -4.086 | 0 | %100 |
| 23 | M32 | X | 0 | 0 | 0 | %100 |
| 24 | M32 | Z | -1.453 | -1.453 | 0 | %100 |
| 25 | M33 | X | 0 | 0 | 0 0 | %100 |
| 26 | M33 | Z | -1.453 | -1.453 | 0 | %100 |
| 27 | M34 | X | 0 | 0 | 0 | %100 |
| 28 | | Z | * | - | 0 | |
| | M34 | | -1.453 | -1.453 | | %100 |
| 29 | M35 | X | 0 | 0 | 0 | %100 |
| 30 | M35 | Z | -1.453 | -1.453 | 0 | %100 |
| 31 | M36 | X | 0 | 0 | 0 | %100 |
| 32 | M36 | Z | -2.922 | -2.922 | 0 | %100 |
| 33 | M37 | X | 0 | 0 | 0 | %100 |
| 34 | M37 | Z | -2.922 | -2.922 | 0 | %100 |
| 35 | M38 | X | 0 | 0 | 0 | %100 |
| 36 | M38 | Z | -2.922 | -2.922 | 0 | %100 |
| 37 | M39 | X | 0 | 0 | 0 | %100 |
| 38 | M39 | Z | -2.922 | -2.922 | 0 | %100 |
| 39 | M40 | Х | 0 | 0 | 0 | %100 |
| 40 | M40 | Z | -2.442 | -2.442 | 0 | %100 |
| 41 | M41 | X | 0 | 0 | 0 | %100 |
| 42 | M41 | Z | -2.442 | -2.442 | 0 | %100 |
| 43 | M42 | X | 0 | 0 | 0 | %100 |
| 43 | M42 | Z | -2.046 | -2.046 | 0 | %100 |
| | | | | | | |
| 45 | M43 | X | 0 | 0 | 0 | %100 |
| 46 | M43 | Z | -1.922 | -1.922 | 0 | %100 |
| 47 | M44 | X | 0 | 0 | 0 | %100 |
| 48 | M44 | Z | -1.922 | -1.922 | 0 | %100 |
| 49 | M45 | X | 0 | 0 | 0 | %100 |
| 50 | M45 | Z | -2.046 | -2.046 | 0 | %100 |
| 51 | M46 | X | 0 | 0 | 0 | %100 |
| 52 | M46 | Z | -2.433 | -2.433 | 0 | %100 |
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | -2.433 | -2.433 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | -2.433 | -2.433 | 0 | %100 |
| 57 | M49 | X | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | -2.433 | -2.433 | 0 | %100 |
| .10 | 10149 | _ | -2.400 | -2.400 | U | 70100 |

RISA-3D Version 17.0.4 [\...\...\...\...\...\...\...\...\Rev 0\RISA\467126-VZW_MT_LOT_A_H.r3d] Page 46

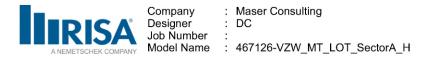


Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 59 | M50 | Х | 0 | 0 | 0 | %100 |
| 60 | M50 | Z | 09 | 09 | 0 | %100 |

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

| | ber Distributed Lo | | | | | |
|--------|--------------------|----------------|---------------------------------|---------------------------------|-----------------------------|----------------------------|
| 1 | Member Label M1 | Direction X | Start Magnitude[lb/ft, 1.315 | .End Magnitude[lb/ft,F 1.315 | . Start Location[ft,%] 0 | End Location[ft,%] %100 |
| 2 | M1 | Z | -2.278 | -2.278 | 0 | %100 |
| 3 | M2 | X | | | | %100 |
| | M2 | Z | 1.315 -2.278 | 1.315 -2.278 | 0 | %100 |
| 4 | | | | | 0 | |
| 5 6 | MP4A | X Z | 1.585 | 1.585 | 0 | %100 |
| 0 7 | MP4A MP3A | | -2.745 | -2.745 | | %100 %100 |
| 8 | MP3A | X Z | 1.585 -2.745 | 1.585 -2.745 | 0 | %100 |
| 0 9 | MP3A MP2A | X | 1.588 | 1.588 | 0 | %100 |
| 10 | MP2A MP2A | Z | -2.75 | -2.75 | 0 | %100 |
| 11 | MP1A | X | 1.585 | 1.585 | 0 | %100 |
| 12 | MP1A MP1A | Z | -2.745 | -2.745 | 0 | %100 |
| 13 | MPTA M23 | X | .579 | .579 | 0 | %100 |
| 14 | M23 | Z | -1.003 | -1.003 | 0 | %100 |
| 14 | | X | .033 | .033 | | |
| 16 | M24 M24 | Z | 056 | 056 | 0 | %100 %100 |
| 17 | M25 | X | .033 | .033 | | %100 |
| 18 | M25 | Z | 056 | 056 | 0 | %100 |
| 19 | M25 | X | .579 | .579 | 0 | %100 |
| 20 | M26 | Z | -1.003 | -1.003 | 0 | %100 |
| 20 | M29 | X | 2.043 | 2.043 | 0 | %100 |
| 22 | M29 | Z | -3.539 | -3.539 | 0 | %100 |
| 22 | M32 | X | 1.445 | 1.445 | 0 | %100 |
| 23 | M32 | Z | -2.503 | -2.503 | 0 | |
| 24 | | | | | | %100 |
| 25 | M33 M33 | X Z | .075 13 | .075 13 | 0 | %100 %100 |
| 26 | M33 | X | .075 | .075 | | |
| 27 | M34 | Z | 13 | 13 | 0 | %100 %100 |
| 20 | M35 | X | 1.445 | 1.445 | 0 | %100 |
| 30 | M35 | Z | -2.503 | -2.503 | 0 | %100 |
| 31 | M36 | X | 1.264 | 1.264 | 0 | %100 |
| 32 | M36 | Z | -2.19 | -2.19 | 0 | %100 |
| 33 | M37 | X | 1.264 | 1.264 | 0 | %100 |
| 34 | M37 | Z | -2.19 | -2.19 | 0 | %100 |
| 35 | M38 | X | 1.264 | 1.264 | 0 | %100 |
| 36 | M38 | Z | | -2.19 | 0 | %100 |
| 30 | M39 | X | -2.19 1.264 | 1.264 | 0 | %100 |
| 38 | M39 | Z | -2.19 | -2.19 | 0 | %100 |
| 39 | M39 M40 | X | 1.221 | 1.221 | 0 | %100 |
| 40 | M40 | Z | -2.114 | -2.114 | 0 | %100 |
| 40 | M40 | X | 1.221 | 1.221 | 0 | %100 |
| 41 | M41 | Z | -2.114 | -2.114 | 0 | %100 |
| 42 | M42 | X | 1.248 | 1.248 | 0 | %100 |
| 43 | M42 | Z | -2.162 | -2.162 | 0 | %100 |
| 44 | M43 | X | 1.217 | 1.217 | 0 | %100 |
| 46 | M43 | Z | -2.108 | -2.108 | 0 | %100 |
| 40 | M43 | X | .73 | .73 | 0 | %100 |
| 47 | M44 | Z | -1.264 | -1.264 | 0 | %100 |
| 40 | M45 | X | .819 | .819 | 0 | %100 |
| 50 | M45 | Z | -1.419 | -1.419 | 0 | %100 |
| 50 | M45 | X | 1.216 | 1.216 | 0 | %100 |
| 51 | | | 1.210 | 1.210 | | /0100 |

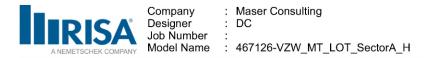


Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 52 | M46 | Z | -2.107 | -2.107 | 0 | %100 |
| 53 | M47 | X | 1.216 | 1.216 | 0 | %100 |
| 54 | M47 | Z | -2.107 | -2.107 | 0 | %100 |
| 55 | M48 | X | 1.216 | 1.216 | 0 | %100 |
| 56 | M48 | Z | -2.107 | -2.107 | 0 | %100 |
| 57 | M49 | X | 1.216 | 1.216 | 0 | %100 |
| 58 | M49 | Z | -2.107 | -2.107 | 0 | %100 |
| 59 | M50 | X | .647 | .647 | 0 | %100 |
| 60 | M50 | Z | -1.121 | -1.121 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | .759 | .759 | 0 | %100 |
| 2 | M1 | Z | 438 | 438 | 0 | %100 |
| 3 | M2 | Х | .759 | .759 | 0 | %100 |
| 4 | M2 | Z | 438 | 438 | 0 | %100 |
| 5 | MP4A | Х | 2.745 | 2.745 | 0 | %100 |
| 6 | MP4A | Z | -1.585 | -1.585 | 0 | %100 |
| 7 | MP3A | Х | 2.745 | 2.745 | 0 | %100 |
| 8 | MP3A | Z | -1.585 | -1.585 | 0 | %100 |
| 9 | MP2A | Х | 2.75 | 2.75 | 0 | %100 |
| 10 | MP2A | Z | -1.588 | -1.588 | 0 | %100 |
| 11 | MP1A | Х | 2.745 | 2.745 | 0 | %100 |
| 12 | MP1A | Z | -1.585 | -1.585 | 0 | %100 |
| 13 | M23 | Х | 1.04 | 1.04 | 0 | %100 |
| 14 | M23 | Z | 6 | 6 | 0 | %100 |
| 15 | M24 | Х | .093 | .093 | 0 | %100 |
| 16 | M24 | Z | 053 | 053 | 0 | %100 |
| 17 | M25 | X | .093 | .093 | 0 | %100 |
| 18 | M25 | Z | 053 | 053 | 0 | %100 |
| 19 | M26 | X | 1.04 | 1.04 | 0 | %100 |
| 20 | M26 | Z | 6 | 6 | 0 | %100 |
| 21 | M29 | X | 3.539 | 3.539 | 0 | %100 |
| 22 | M29 | Z | -2.043 | -2.043 | 0 | %100 |
| 23 | M32 | X | 2.62 | 2.62 | 0 | %100 |
| 24 | M32 | Z | -1.513 | -1.513 | 0 | %100 |
| 25 | M33 | X | .247 | .247 | 0 | %100 |
| 26 | M33 | Z | 143 | 143 | 0 | %100 |
| 27 | M34 | X | .247 | .247 | 0 | %100 |
| 28 | M34 | Z | 143 | 143 | 0 | %100 |
| 29 | M35 | X | 2.62 | 2.62 | 0 | %100 |
| 30 | M35 | Z | -1.513 | -1.513 | 0 | %100 |
| 31 | M36 | X | 1.508 | 1.508 | 0 | %100 |
| 32 | M36 | Z | 871 | 871 | 0 | %100 |
| 33 | M37 | X | 1.508 | 1.508 | 0 | %100 |
| 34 | M37 | Z | 871 | 871 | 0 | %100 |
| 35 | M38 | X | 1.508 | 1.508 | 0 | %100 |
| 36 | M38 | Z | 871 | 871 | 0 | %100 |
| 37 | M39 | X | 1.508 | 1.508 | 0 | %100 |
| 38 | M39 | Z | 871 | 871 | 0 | %100 |
| 39 | M40 | X | 2.114 | 2.114 | 0 | %100 |
| 40 | M40 | Z | -1.221 | -1.221 | 0 | %100 |
| 41 | M41 | X | 2.114 | 2.114 | 0 | %100 |
| 42 | M41 | Z | -1.221 | -1.221 | 0 | %100 |
| 43 | M42 | X | 2.199 | 2.199 | 0 | %100 |
| 44 | M42 | Z | -1.269 | -1.269 | 0 | %100 |

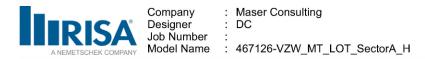


Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 45 | M43 | Х | 2.151 | 2.151 | 0 | %100 |
| 46 | M43 | Z | -1.242 | -1.242 | 0 | %100 |
| 47 | M44 | Х | 1.307 | 1.307 | 0 | %100 |
| 48 | M44 | Z | 755 | 755 | 0 | %100 |
| 49 | M45 | Х | 1.455 | 1.455 | 0 | %100 |
| 50 | M45 | Z | 84 | 84 | 0 | %100 |
| 51 | M46 | X | 2.107 | 2.107 | 0 | %100 |
| 52 | M46 | Z | -1.216 | -1.216 | 0 | %100 |
| 53 | M47 | Х | 2.107 | 2.107 | 0 | %100 |
| 54 | M47 | Z | -1.216 | -1.216 | 0 | %100 |
| 55 | M48 | Х | 2.107 | 2.107 | 0 | %100 |
| 56 | M48 | Z | -1.216 | -1.216 | 0 | %100 |
| 57 | M49 | Х | 2.107 | 2.107 | 0 | %100 |
| 58 | M49 | Z | -1.216 | -1.216 | 0 | %100 |
| 59 | M50 | Х | 2.419 | 2.419 | 0 | %100 |
| 60 | M50 | Z | -1.396 | -1.396 | 0 | %100 |

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

| 1 M1 X 0 1 1 1 1 | tion[ft,%] |
|--|------------|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 00 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 00 |
| 7 MP3A X 3.17 3.17 0 %1 8 MP3A Z 0 0 0 %1 9 MP2A X 3.175 3.175 0 %1 10 MP2A Z 0 0 0 %1 11 MP1A X 3.17 3.17 0 %1 12 MP1A Z 0 0 0 %1 13 M23 X .675 .675 0 %1 14 M23 Z 0 0 0 %1 15 M24 X .675 .675 0 %1 16 M24 Z 0 0 0 %1 18 M25 Z 0 0 %1 %1 20 M26 Z 0 0 %1 %1 21 M29 Z 0 0 %1 | 00 |
| 8 MP3A Z 0 0 0 %1 9 MP2A X 3.175 3.175 0 %1 10 MP2A Z 0 0 0 %1 11 MP1A X 3.17 3.17 0 %1 11 MP1A X 3.17 3.17 0 %1 12 MP1A Z 0 0 0 %1 13 M23 X .675 .675 0 %1 14 M23 Z 0 0 0 %1 15 M24 X .675 .675 0 %1 16 M24 Z 0 0 %1 %1 18 M25 Z 0 0 %1 %1 20 M26 Z 0 0 %1 %1 21 M29 Z 0 0 %1 | 00 |
| 9 MP2A X 3.175 3.175 0 %1 10 MP2A Z 0 0 0 0 %1 11 MP1A X 3.17 3.17 0 %1 12 MP1A Z 0 0 0 0 %1 13 M23 X .675 .675 0 %1 14 M23 Z 0 0 0 %1 15 M24 X .675 .675 0 %1 15 M24 Z 0 0 0 %1 16 M24 Z 0 0 0 %1 18 M25 Z 0 0 0 %1 20 M26 Z 0 0 %1 %1 21 M29 Z 0 0 %1 %1 23 M32 X 1.723 <td< td=""><td>00</td></td<> | 00 |
| 10 MP2A Z 0 0 0 %1 11 MP1A X 3.17 3.17 0 %1 12 MP1A Z 0 0 0 %1 13 M23 X .675 .675 0 %1 14 M23 Z 0 0 0 %1 15 M24 X .675 .675 0 %1 16 M24 Z 0 0 0 %1 16 M24 Z 0 0 0 %1 18 M25 Z 0 0 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 23 M32 X 1.723 1.723 0 %1 25 M33 X 1.723 1.723 0 | 00 |
| 11 MP1A X 3.17 3.17 0 %1 12 MP1A Z 0 0 0 0 %1 13 M23 X .675 .675 0 %1 14 M23 Z 0 0 0 %1 15 M24 X .675 .675 0 %1 16 M24 Z 0 0 0 %1 17 M25 X .675 .675 0 %1 18 M25 Z 0 0 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 22 M29 Z 0 0 0 %1 22 M29 Z 0 0 %1 %1 23 M32 X 1.723 1.723 | 00 |
| 12 MP1A Z 0 0 0 %1 13 M23 X .675 .675 0 %1 14 M23 Z 0 0 0 0 %1 14 M23 Z 0 0 0 0 %1 15 M24 X .675 .675 0 %1 16 M24 Z 0 0 0 %1 17 M25 X .675 .675 0 %1 18 M25 Z 0 0 0 %1 19 M26 X .675 .675 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 22 M29 Z 0 0 0 %1 24 M32 Z 0 0 | 00 |
| 13 M23 X .675 .675 0 %1 14 M23 Z 0 0 0 0 %1 15 M24 X .675 .675 0 %1 16 M24 Z 0 0 0 %1 16 M24 Z 0 0 0 %1 17 M25 X .675 .675 0 %1 18 M25 Z 0 0 0 %1 19 M26 X .675 .675 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 22 M29 Z 0 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 %1 | 00 |
| 14 M23 Z 0 0 0 %1 15 M24 X .675 .675 0 %1 16 M24 Z 0 0 0 0 %1 16 M24 Z 0 0 0 0 %1 17 M25 X .675 .675 0 %1 18 M25 Z 0 0 0 %1 19 M26 X .675 .675 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 | 00 |
| 15 M24 X .675 .675 0 %1 16 M24 Z 0 0 0 0 %1 17 M25 X .675 .675 0 %1 18 M25 Z 0 0 0 %1 19 M26 X .675 .675 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 26 M33 Z 0 0 %1 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 %1 %1 | 00 |
| 16 M24 Z 0 0 0 %1 17 M25 X .675 .675 0 %1 18 M25 Z 0 0 0 %1 19 M26 X .675 .675 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 23 M32 X 1.723 1.723 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 0 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 0 %1 | 00 |
| 17 M25 X .675 .675 0 %1 18 M25 Z 0 0 0 %1 19 M26 X .675 .675 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 22 M29 Z 0 0 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 %1 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 %1 %1 | 00 |
| 18 M25 Z 0 0 0 %1 19 M26 X .675 .675 0 %1 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 22 M29 Z 0 0 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 %1 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 %1 | 00 |
| 19 M26 X .675 .675 0 %1 20 M26 Z 0 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 22 M29 Z 0 0 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 0 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 0 %1 | |
| 20 M26 Z 0 0 0 %1 21 M29 X 4.086 4.086 0 %1 22 M29 Z 0 0 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 0 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 0 %1 | |
| 21 M29 X 4.086 4.086 0 %1 22 M29 Z 0 0 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 0 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 0 %1 | 00 |
| 22 M29 Z 0 0 %1 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 0 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 0 %1 | |
| 23 M32 X 1.723 1.723 0 %1 24 M32 Z 0 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 0 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 0 %1 | |
| 24 M32 Z 0 0 %1 25 M33 X 1.723 1.723 0 %1 26 M33 Z 0 0 0 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 0 %1 | |
| 25M33X1.7231.7230%126M33Z000%127M34X1.7231.7230%128M34Z000%1 | |
| 26 M33 Z 0 0 %1 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 %1 | 00 |
| 27 M34 X 1.723 1.723 0 %1 28 M34 Z 0 0 0 %1 | |
| 28 M34 Z 0 0 0 %1 | 00 |
| | |
| 20 M2E V 1700 1700 0 0/4 | 00 |
| | 00 |
| 30 M35 Z 0 0 0 %1 | |
| 31 M36 X 1.348 1.348 0 %1 | |
| 32 M36 Z 0 0 0 %1 | |
| 33 M37 X 1.348 1.348 0 %1 | |
| 34 M37 Z 0 0 0 %1 | |
| 35 M38 X 1.348 1.348 0 %1 | |
| 36 M38 Z 0 0 0 %1 | |
| 37 M39 X 1.348 1.348 0 %1 | 00 |

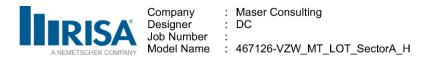


Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 38 | M39 | Z | 0 | 0 | 0 | %100 |
| 39 | M40 | Х | 2.442 | 2.442 | 0 | %100 |
| 40 | M40 | Z | 0 | 0 | 0 | %100 |
| 41 | M41 | Х | 2.442 | 2.442 | 0 | %100 |
| 42 | M41 | Z | 0 | 0 | 0 | %100 |
| 43 | M42 | Х | 2.131 | 2.131 | 0 | %100 |
| 44 | M42 | Z | 0 | 0 | 0 | %100 |
| 45 | M43 | Х | 2.022 | 2.022 | 0 | %100 |
| 46 | M43 | Z | 0 | 0 | 0 | %100 |
| 47 | M44 | Х | 2.022 | 2.022 | 0 | %100 |
| 48 | M44 | Z | 0 | 0 | 0 | %100 |
| 49 | M45 | Х | 2.131 | 2.131 | 0 | %100 |
| 50 | M45 | Z | 0 | 0 | 0 | %100 |
| 51 | M46 | Х | 2.433 | 2.433 | 0 | %100 |
| 52 | M46 | Z | 0 | 0 | 0 | %100 |
| 53 | M47 | Х | 2.433 | 2.433 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | Х | 2.433 | 2.433 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | Х | 2.433 | 2.433 | 0 | %100 |
| 58 | M49 | Z | 0 | 0 | 0 | %100 |
| 59 | M50 | Х | 3.085 | 3.085 | 0 | %100 |
| 60 | M50 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | .759 | .759 | 0 | %100 |
| 2 | M1 | Z | .438 | .438 | 0 | %100 |
| 3 | M2 | Х | .759 | .759 | 0 | %100 |
| 4 | M2 | Z | .438 | .438 | 0 | %100 |
| 5 | MP4A | Х | 2.745 | 2.745 | 0 | %100 |
| 6 | MP4A | Z | 1.585 | 1.585 | 0 | %100 |
| 7 | MP3A | Х | 2.745 | 2.745 | 0 | %100 |
| 8 | MP3A | Z | 1.585 | 1.585 | 0 | %100 |
| 9 | MP2A | Х | 2.75 | 2.75 | 0 | %100 |
| 10 | MP2A | Z | 1.588 | 1.588 | 0 | %100 |
| 11 | MP1A | Х | 2.745 | 2.745 | 0 | %100 |
| 12 | MP1A | Z | 1.585 | 1.585 | 0 | %100 |
| 13 | M23 | Х | .093 | .093 | 0 | %100 |
| 14 | M23 | Z | .053 | .053 | 0 | %100 |
| 15 | M24 | Х | 1.04 | 1.04 | 0 | %100 |
| 16 | M24 | Z | .6 | .6 | 0 | %100 |
| 17 | M25 | Х | 1.04 | 1.04 | 0 | %100 |
| 18 | M25 | Z | .6 | .6 | 0 | %100 |
| 19 | M26 | Х | .093 | .093 | 0 | %100 |
| 20 | M26 | Z | .053 | .053 | 0 | %100 |
| 21 | M29 | Х | 3.539 | 3.539 | 0 | %100 |
| 22 | M29 | Z | 2.043 | 2.043 | 0 | %100 |
| 23 | M32 | X | .247 | .247 | 0 | %100 |
| 24 | M32 | Z | .143 | .143 | 0 | %100 |
| 25 | M33 | Х | 2.62 | 2.62 | 0 | %100 |
| 26 | M33 | Z | 1.513 | 1.513 | 0 | %100 |
| 27 | M34 | Х | 2.62 | 2.62 | 0 | %100 |
| 28 | M34 | Z | 1.513 | 1.513 | 0 | %100 |
| 29 | M35 | Х | .247 | .247 | 0 | %100 |
| 30 | M35 | Z | .143 | .143 | 0 | %100 |

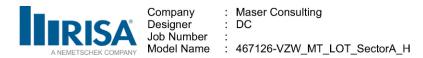


Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 31 | M36 | Х | 1.508 | 1.508 | 0 | %100 |
| 32 | M36 | Z | .871 | .871 | 0 | %100 |
| 33 | M37 | Х | 1.508 | 1.508 | 0 | %100 |
| 34 | M37 | Z | .871 | .871 | 0 | %100 |
| 35 | M38 | Х | 1.508 | 1.508 | 0 | %100 |
| 36 | M38 | Z | .871 | .871 | 0 | %100 |
| 37 | M39 | X | 1.508 | 1.508 | 0 | %100 |
| 38 | M39 | Z | .871 | .871 | 0 | %100 |
| 39 | M40 | X | 2.114 | 2.114 | 0 | %100 |
| 40 | M40 | Z | 1.221 | 1.221 | 0 | %100 |
| 41 | M41 | X | 2.114 | 2.114 | 0 | %100 |
| 42 | M41 | Z | 1.221 | 1.221 | 0 | %100 |
| 43 | M42 | X | 1.455 | 1.455 | 0 | %100 |
| 44 | M42 | Z | .84 | .84 | 0 | %100 |
| 45 | M43 | X | 1.307 | 1.307 | 0 | %100 |
| 46 | M43 | Z | .755 | .755 | 0 | %100 |
| 47 | M44 | X | 2.151 | 2.151 | 0 | %100 |
| 48 | M44 | Z | 1.242 | 1.242 | 0 | %100 |
| 49 | M45 | X | 2.199 | 2.199 | 0 | %100 |
| 50 | M45 | Z | 1.269 | 1.269 | 0 | %100 |
| 51 | M46 | X | 2.107 | 2.107 | 0 | %100 |
| 52 | M46 | Z | 1.216 | 1.216 | 0 | %100 |
| 53 | M47 | X | 2.107 | 2.107 | 0 | %100 |
| 54 | M47 | Z | 1.216 | 1.216 | 0 | %100 |
| 55 | M48 | X | 2.107 | 2.107 | 0 | %100 |
| 56 | M48 | Z | 1.216 | 1.216 | 0 | %100 |
| 57 | M49 | Х | 2.107 | 2.107 | 0 | %100 |
| 58 | M49 | Z | 1.216 | 1.216 | 0 | %100 |
| 59 | M50 | Х | 1.629 | 1.629 | 0 | %100 |
| 60 | M50 | Z | .94 | .94 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | 1.315 | 1.315 | 0 | %100 |
| 2 | M1 | Z | 2.278 | 2.278 | 0 | %100 |
| 3 | M2 | X | 1.315 | 1.315 | 0 | %100 |
| 4 | M2 | Z | 2.278 | 2.278 | 0 | %100 |
| 5 | MP4A | Х | 1.585 | 1.585 | 0 | %100 |
| 6 | MP4A | Z | 2.745 | 2.745 | 0 | %100 |
| 7 | MP3A | Х | 1.585 | 1.585 | 0 | %100 |
| 8 | MP3A | Z | 2.745 | 2.745 | 0 | %100 |
| 9 | MP2A | Х | 1.588 | 1.588 | 0 | %100 |
| 10 | MP2A | Z | 2.75 | 2.75 | 0 | %100 |
| 11 | MP1A | Х | 1.585 | 1.585 | 0 | %100 |
| 12 | MP1A | Z | 2.745 | 2.745 | 0 | %100 |
| 13 | M23 | Х | .033 | .033 | 0 | %100 |
| 14 | M23 | Z | .056 | .056 | 0 | %100 |
| 15 | M24 | Х | .579 | .579 | 0 | %100 |
| 16 | M24 | Z | 1.003 | 1.003 | 0 | %100 |
| 17 | M25 | Х | .579 | .579 | 0 | %100 |
| 18 | M25 | Z | 1.003 | 1.003 | 0 | %100 |
| 19 | M26 | Х | .033 | .033 | 0 | %100 |
| 20 | M26 | Z | .056 | .056 | 0 | %100 |
| 21 | M29 | Х | 2.043 | 2.043 | 0 | %100 |
| 22 | M29 | Z | 3.539 | 3.539 | 0 | %100 |
| 23 | M32 | Х | .075 | .075 | 0 | %100 |

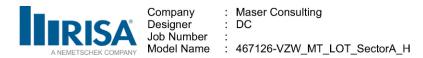


Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 24 | M32 | Z | .13 | .13 | 0 | %100 |
| 25 | M33 | Х | 1.445 | 1.445 | 0 | %100 |
| 26 | M33 | Z | 2.503 | 2.503 | 0 | %100 |
| 27 | M34 | Х | 1.445 | 1.445 | 0 | %100 |
| 28 | M34 | Z | 2.503 | 2.503 | 0 | %100 |
| 29 | M35 | Х | .075 | .075 | 0 | %100 |
| 30 | M35 | Z | .13 | .13 | 0 | %100 |
| 31 | M36 | Х | 1.264 | 1.264 | 0 | %100 |
| 32 | M36 | Z | 2.19 | 2.19 | 0 | %100 |
| 33 | M37 | Х | 1.264 | 1.264 | 0 | %100 |
| 34 | M37 | Z | 2.19 | 2.19 | 0 | %100 |
| 35 | M38 | Х | 1.264 | 1.264 | 0 | %100 |
| 36 | M38 | Z | 2.19 | 2.19 | 0 | %100 |
| 37 | M39 | Х | 1.264 | 1.264 | 0 | %100 |
| 38 | M39 | Z | 2.19 | 2.19 | 0 | %100 |
| 39 | M40 | Х | 1.221 | 1.221 | 0 | %100 |
| 40 | M40 | Z | 2.114 | 2.114 | 0 | %100 |
| 41 | M41 | Х | 1.221 | 1.221 | 0 | %100 |
| 42 | M41 | Z | 2.114 | 2.114 | 0 | %100 |
| 43 | M42 | Χ | .819 | .819 | 0 | %100 |
| 44 | M42 | Z | 1.419 | 1.419 | 0 | %100 |
| 45 | M43 | Χ | .73 | .73 | 0 | %100 |
| 46 | M43 | Z | 1.264 | 1.264 | 0 | %100 |
| 47 | M44 | X | 1.217 | 1.217 | 0 | %100 |
| 48 | M44 | Z | 2.108 | 2.108 | 0 | %100 |
| 49 | M45 | X | 1.248 | 1.248 | 0 | %100 |
| 50 | M45 | Z | 2.162 | 2.162 | 0 | %100 |
| 51 | M46 | X | 1.216 | 1.216 | 0 | %100 |
| 52 | M46 | Z | 2.107 | 2.107 | 0 | %100 |
| 53 | M47 | Х | 1.216 | 1.216 | 0 | %100 |
| 54 | M47 | Z | 2.107 | 2.107 | 0 | %100 |
| 55 | M48 | Х | 1.216 | 1.216 | 0 | %100 |
| 56 | M48 | Z | 2.107 | 2.107 | 0 | %100 |
| 57 | M49 | Х | 1.216 | 1.216 | 0 | %100 |
| 58 | M49 | Z | 2.107 | 2.107 | 0 | %100 |
| 59 | M50 | Х | .191 | .191 | 0 | %100 |
| 60 | M50 | Z | .331 | .331 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 3.507 | 3.507 | 0 | %100 |
| 3 | M2 | Х | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 3.507 | 3.507 | 0 | %100 |
| 5 | MP4A | Х | 0 | 0 | 0 | %100 |
| 6 | MP4A | Z | 3.17 | 3.17 | 0 | %100 |
| 7 | MP3A | Х | 0 | 0 | 0 | %100 |
| 8 | MP3A | Z | 3.17 | 3.17 | 0 | %100 |
| 9 | MP2A | Х | 0 | 0 | 0 | %100 |
| 10 | MP2A | Z | 3.175 | 3.175 | 0 | %100 |
| 11 | MP1A | Х | 0 | 0 | 0 | %100 |
| 12 | MP1A | Z | 3.17 | 3.17 | 0 | %100 |
| 13 | M23 | Х | 0 | 0 | 0 | %100 |
| 14 | M23 | Z | .591 | .591 | 0 | %100 |
| 15 | M24 | Х | 0 | 0 | 0 | %100 |
| 16 | M24 | Z | .591 | .591 | 0 | %100 |

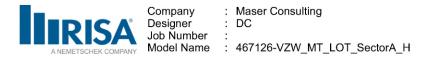


Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

| | Member Label | Direction | | End Magnitude[lb/ft,F | | End Location[ft,%] |
|----|--------------|-----------|-------|-----------------------|---|--------------------|
| 17 | M25 | <u> </u> | 0 | 0 | 0 | %100 |
| 18 | M25 | Z | .591 | .591 | 0 | %100 |
| 19 | M26 | X | 0 | 0 | 0 | %100 |
| 20 | M26 | Z | .591 | .591 | 0 | %100 |
| 21 | M29 | X | 0 | 0 | 0 | %100 |
| 22 | M29 | Z | 4.086 | 4.086 | 0 | %100 |
| 23 | M32 | X | 0 | 0 | 0 | %100 |
| 24 | M32 | Z | 1.453 | 1.453 | 0 | %100 |
| 25 | M33 | X | 0 | 0 | 0 | %100 |
| 26 | M33 | Z | 1.453 | 1.453 | 0 | %100 |
| 27 | M34 | X | 0 | 0 | 0 | %100 |
| 28 | M34 | Z | 1.453 | 1.453 | 0 | %100 |
| 29 | M35 | X | 0 | 0 | 0 | %100 |
| 30 | M35 | Z | 1.453 | 1.453 | 0 | %100 |
| 31 | M36 | Х | 0 | 0 | 0 | %100 |
| 32 | M36 | Z | 2.922 | 2.922 | 0 | %100 |
| 33 | M37 | Χ | 0 | 0 | 0 | %100 |
| 34 | M37 | Z | 2.922 | 2.922 | 0 | %100 |
| 35 | M38 | X | 0 | 0 | 0 | %100 |
| 36 | M38 | Z | 2.922 | 2.922 | 0 | %100 |
| 37 | M39 | X | 0 | 0 | 0 | %100 |
| 38 | M39 | Z | 2.922 | 2.922 | 0 | %100 |
| 39 | M40 | X | 0 | 0 | 0 | %100 |
| 40 | M40 | Z | 2.442 | 2.442 | 0 | %100 |
| 41 | M41 | X | 0 | 0 | 0 | %100 |
| 42 | M41 | Z | 2.442 | 2.442 | 0 | %100 |
| 43 | M42 | X | 0 | 0 | 0 | %100 |
| 44 | M42 | Z | 2.046 | 2.046 | 0 | %100 |
| 45 | M43 | Х | 0 | 0 | 0 | %100 |
| 46 | M43 | Z | 1.922 | 1.922 | 0 | %100 |
| 47 | M44 | Х | 0 | 0 | 0 | %100 |
| 48 | M44 | Z | 1.922 | 1.922 | 0 | %100 |
| 49 | M45 | X | 0 | 0 | 0 | %100 |
| 50 | M45 | Z | 2.046 | 2.046 | 0 | %100 |
| 51 | M46 | Х | 0 | 0 | 0 | %100 |
| 52 | M46 | Z | 2.433 | 2.433 | 0 | %100 |
| 53 | M47 | Х | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | 2.433 | 2.433 | 0 | %100 |
| 55 | M48 | Х | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | 2.433 | 2.433 | 0 | %100 |
| 57 | M49 | Х | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | 2.433 | 2.433 | 0 | %100 |
| 59 | M50 | Х | 0 | 0 | 0 | %100 |
| 60 | M50 | Z | .09 | .09 | 0 | %100 |

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

| Label Direction Sta | | ection | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|---------------------|-------------|-----------------------|--------------------------|--------------------------|------------------------|--------------------|
| X | 1 | Х | -1.315 | -1.315 | 0 | %100 |
| Z | 2 | Z | 2.278 | 2.278 | 0 | %100 |
| Х | 3 | Х | -1.315 | -1.315 | 0 | %100 |
| Z | 4 | Z | 2.278 | 2.278 | 0 | %100 |
| A X | 5 | Х | -1.585 | -1.585 | 0 | %100 |
| A Z | 6 | Z | 2.745 | 2.745 | 0 | %100 |
| A X | 7 | Х | -1.585 | -1.585 | 0 | %100 |
| A Z | 8 | Z | 2.745 | 2.745 | 0 | %100 |
| A X | 9 | X | -1.588 | -1.588 | 0 | %100 |
| A Z A X A Z | 6 7 8 | × Z X Z X | 2.745 -1.585 2.745 | 2.745 -1.585 2.745 | 0 0 0 0 | %10 %10 %10 |

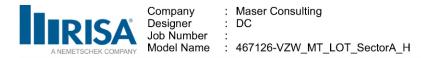


Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

| | | | | [210 Deg]/ [00] | | |
|-----|--------------|-----------|--------|-----------------------|---|--------------------|
| 1.0 | Member Label | Direction | | End Magnitude[lb/ft,F | | End Location[ft,%] |
| 10 | MP2A | Z | 2.75 | 2.75 | 0 | %100 |
| 11 | MP1A | <u> </u> | -1.585 | -1.585 | 0 | %100 |
| 12 | MP1A | Z | 2.745 | 2.745 | 0 | %100 |
| 13 | M23 | <u> </u> | 579 | 579 | 0 | %100 |
| 14 | M23 | Z | 1.003 | 1.003 | 0 | %100 |
| 15 | M24 | <u> </u> | 033 | 033 | 0 | %100 |
| 16 | M24 | Z | .056 | .056 | 0 | %100 |
| 17 | M25 | X | 033 | 033 | 0 | %100 |
| 18 | M25 | Z | .056 | .056 | 0 | %100 |
| 19 | M26 | X | 579 | 579 | 0 | %100 |
| 20 | M26 | Z | 1.003 | 1.003 | 0 | %100 |
| 21 | M29 | X | -2.043 | -2.043 | 0 | %100 |
| 22 | M29 | Z | 3.539 | 3.539 | 0 | %100 |
| 23 | M32 | X | -1.445 | -1.445 | 0 | %100 |
| 24 | M32 | Z | 2.503 | 2.503 | 0 | %100 |
| 25 | M33 | X | 075 | 075 | 0 | %100 |
| 26 | M33 | Z | .13 | .13 | 0 | %100 |
| 27 | M34 | Χ | 075 | 075 | 0 | %100 |
| 28 | M34 | Z | .13 | .13 | 0 | %100 |
| 29 | M35 | Χ | -1.445 | -1.445 | 0 | %100 |
| 30 | M35 | Z | 2.503 | 2.503 | 0 | %100 |
| 31 | M36 | X | -1.264 | -1.264 | 0 | %100 |
| 32 | M36 | Z | 2.19 | 2.19 | 0 | %100 |
| 33 | M37 | Χ | -1.264 | -1.264 | 0 | %100 |
| 34 | M37 | Z | 2.19 | 2.19 | 0 | %100 |
| 35 | M38 | X | -1.264 | -1.264 | 0 | %100 |
| 36 | M38 | Z | 2.19 | 2.19 | 0 | %100 |
| 37 | M39 | X | -1.264 | -1.264 | 0 | %100 |
| 38 | M39 | Z | 2.19 | 2.19 | 0 | %100 |
| 39 | M40 | X | -1.221 | -1.221 | 0 | %100 |
| 40 | M40 | Z | 2.114 | 2.114 | 0 | %100 |
| 41 | M41 | Х | -1.221 | -1.221 | 0 | %100 |
| 42 | M41 | Z | 2.114 | 2.114 | 0 | %100 |
| 43 | M42 | X | -1.248 | -1.248 | 0 | %100 |
| 44 | M42 | Z | 2.162 | 2.162 | 0 | %100 |
| 45 | M43 | X | -1.217 | -1.217 | 0 | %100 |
| 46 | M43 | Z | 2.108 | 2.108 | 0 | %100 |
| 47 | M44 | Х | 73 | 73 | 0 | %100 |
| 48 | M44 | Z | 1.264 | 1.264 | 0 | %100 |
| 49 | M45 | X | 819 | 819 | 0 | %100 |
| 50 | M45 | Z | 1.419 | 1.419 | 0 | %100 |
| 51 | M46 | Х | -1.216 | -1.216 | 0 | %100 |
| 52 | M46 | Z | 2.107 | 2.107 | 0 | %100 |
| 53 | M47 | Х | -1.216 | -1.216 | 0 | %100 |
| 54 | M47 | Z | 2.107 | 2.107 | 0 | %100 |
| 55 | M48 | Х | -1.216 | -1.216 | 0 | %100 |
| 56 | M48 | Z | 2.107 | 2.107 | 0 | %100 |
| 57 | M49 | X | -1.216 | -1.216 | 0 | %100 |
| 58 | M49 | Z | 2.107 | 2.107 | 0 | %100 |
| 59 | M50 | X | 647 | 647 | 0 | %100 |
| 60 | M50 | Z | 1.121 | 1.121 | 0 | %100 |
| | | | | | | |

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

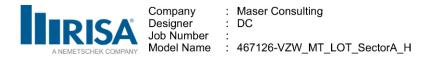
| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|---|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | 759 | 759 | 0 | %100 |
| 2 | M1 | Z | .438 | .438 | 0 | %100 |



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

| 3 | Member Label M2 | Direction X | Start Magnitude[lb/ft, 759 | .End Magnitude[lb/ft,F. | Start Location[ft,%] 0 | End Location[ft,% %100 |
|----|--------------------|----------------|-------------------------------|-------------------------|---------------------------|---------------------------|
| 4 | M2 | Z | .438 | .438 | 0 | %100 |
| 5 | MP4A | x | -2.745 | -2.745 | 0 | %100 |
| 6 | MP4A | Z | 1.585 | 1.585 | 0 | %100 |
| 7 | MP3A | X | -2.745 | -2.745 | 0 | %100 |
| 8 | MP3A | Z | 1.585 | 1.585 | 0 | %100 |
| 9 | MP2A | X | -2.75 | -2.75 | 0 | %100 |
| 10 | MP2A | Z | 1.588 | 1.588 | 0 | %100 |
| 11 | MP1A | X | -2.745 | -2.745 | 0 | %100 |
| 12 | MP1A | Z | 1.585 | 1.585 | 0 | %100 |
| 13 | M23 | X | -1.04 | -1.04 | 0 | %100 |
| 14 | M23 | Z | .6 | .6 | 0 | %100 |
| 15 | M24 | X | 093 | 093 | 0 | %100 |
| 16 | M24 | Z | .053 | .053 | 0 | %100 |
| 17 | M25 | X | 093 | 093 | 0 | %100 |
| 18 | M25 | Z | .053 | .053 | 0 | %100 |
| 19 | M26 | X | -1.04 | -1.04 | 0 | %100 |
| 20 | M26 | Z | .6 | .6 | 0 | %100 |
| 21 | M29 | X | -3.539 | -3.539 | 0 | %100 |
| 22 | M29 | Z | 2.043 | 2.043 | 0 | %100 |
| 23 | M32 | X | -2.62 | -2.62 | 0 | %100 |
| 24 | M32 | Z | 1.513 | 1.513 | 0 | %100 |
| 25 | M33 | X | 247 | 247 | 0 | %100 |
| 26 | M33 | Z | .143 | .143 | 0 | %100 |
| 27 | M34 | X | 247 | 247 | 0 | %100 |
| 28 | M34 | Z | .143 | .143 | 0 | %100 |
| 29 | M35 | X | -2.62 | -2.62 | 0 | %100 |
| 30 | M35 | Z | 1.513 | 1.513 | 0 | %100 |
| 31 | M36 | X | -1.508 | -1.508 | 0 | %100 |
| 32 | M36 | Z | .871 | .871 | 0 | %100 |
| 33 | M37 | X | -1.508 | -1.508 | 0 | %100 |
| 34 | M37 | Z | .871 | .871 | 0 | %100 |
| 35 | M38 | X | -1.508 | -1.508 | 0 | %100 |
| 36 | M38 | Z | .871 | .871 | 0 | %100 |
| 37 | M39 | X | -1.508 | -1.508 | 0 | %100 |
| 38 | M39 | Z | .871 | .871 | 0 | %100 |
| 39 | M40 | X | -2.114 | -2.114 | 0 | %100 |
| 40 | M40 | Z | 1.221 | 1.221 | 0 | %100 |
| 41 | M41 | X | -2.114 | -2.114 | 0 | %100 |
| 42 | M41 | Z | 1.221 | 1.221 | 0 | %100 |
| 43 | M42 | X | -2.199 | -2.199 | 0 | %100 |
| 44 | M42 | Z | 1.269 | 1.269 | 0 | %100 |
| 44 | M43 | X | -2.151 | -2.151 | 0 | %100 |
| 46 | M43 | Z | 1.242 | 1.242 | 0 | %100 |
| 40 | M44 | X | -1.307 | -1.307 | 0 | %100 |
| 48 | M44 | Z | .755 | .755 | 0 | %100 |
| 49 | M45 | X | -1.455 | -1.455 | 0 | %100 |
| 50 | M45 | Z | .84 | .84 | 0 | %100 |
| 50 | M45 | X | -2.107 | -2.107 | 0 | %100 |
| 52 | M46 | Z | 1.216 | 1.216 | 0 | %100 |
| 53 | M40 | X | -2.107 | -2.107 | 0 | %100 |
| 53 | M47 | Z | 1.216 | 1.216 | 0 | %100 |
| 55 | M48 | X | -2.107 | -2.107 | 0 | %100 |
| 56 | N48 M48 | Z | 1.216 | 1.216 | 0 | %100 |
| 57 | M49 | X | -2.107 | -2.107 | 0 | %100 |
| 57 | M49 M49 | Z | 1.216 | 1.216 | 0 | %100 |
| 59 | M49 M50 | X | -2.419 | -2.419 | 0 | %100 |
| | IVIOU | · · ∧ | -2.419 | -2.419 | U | 70 100 |

RISA-3D Version 17.0.4 [\...\...\...\...\...\...\...\...\Rev 0\RISA\467126-VZW_MT_LOT_A_H.r3d] Page 55

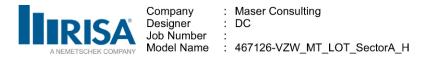


Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 60 | M50 | Z | 1.396 | 1.396 | 0 | %100 |

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

| | <u>Nel Distributed Lot</u> | | | · · · · · · · · · · · · · · · · · · · | O () | E 11 B B B B B B B B B B |
|----|----------------------------|-----------|--------|---------------------------------------|--------------|--|
| 4 | Member Label | Direction | | End Magnitude[lb/ft,F | | End Location[ft,%] |
| 1 | <u>M1</u> | X | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | X | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | MP4A | <u>X</u> | -3.17 | -3.17 | 0 | %100 |
| 6 | MP4A | Z | 0 | 0 | 0 | %100 |
| 7 | MP3A | Х | -3.17 | -3.17 | 0 | %100 |
| 8 | MP3A | Z | 0 | 0 | 0 | %100 |
| 9 | MP2A | Χ | -3.175 | -3.175 | 0 | %100 |
| 10 | MP2A | Z | 0 | 0 | 0 | %100 |
| 11 | MP1A | X | -3.17 | -3.17 | 0 | %100 |
| 12 | MP1A | Z | 0 | 0 | 0 | %100 |
| 13 | M23 | Х | 675 | 675 | 0 | %100 |
| 14 | M23 | Z | 0 | 0 | 0 | %100 |
| 15 | M24 | Х | 675 | 675 | 0 | %100 |
| 16 | M24 | Z | 0 | 0 | 0 | %100 |
| 17 | M25 | Х | 675 | 675 | 0 | %100 |
| 18 | M25 | Z | 0 | 0 | 0 | %100 |
| 19 | M26 | x | 675 | 675 | 0 | %100 |
| 20 | M26 | Z | 0 | 0 | Ő | %100 |
| 21 | M29 | x | -4.086 | -4.086 | 0 | %100 |
| 22 | M29 | Z | 0 | 0 | 0 | %100 |
| 23 | M32 | X | -1.723 | -1.723 | 0 | %100 |
| 24 | M32 | Z | 0 | 0 | 0 | %100 |
| 25 | M32 | X | -1.723 | -1.723 | 0 | %100 |
| 26 | M33 | Z | -1.725 | 0 | 0 | %100 |
| 20 | M34 | X | -1.723 | -1.723 | 0 | %100 |
| 27 | M34 | Z | -1.725 | -1.723 | 0 | %100 |
| | | | ÷ | | | |
| 29 | M35 | X | -1.723 | -1.723 | 0 | %100 |
| 30 | M35 | Z | 0 | 0 | 0 | %100 |
| 31 | M36 | X | -1.348 | -1.348 | 0 | %100 |
| 32 | M36 | Z | 0 | 0 | 0 | %100 |
| 33 | M37 | <u> </u> | -1.348 | -1.348 | 0 | %100 |
| 34 | M37 | Z | 0 | 0 | 0 | %100 |
| 35 | M38 | X | -1.348 | -1.348 | 0 | %100 |
| 36 | M38 | Z | 0 | 0 | 0 | %100 |
| 37 | M39 | X | -1.348 | -1.348 | 0 | %100 |
| 38 | M39 | Z | 0 | 0 | 0 | %100 |
| 39 | M40 | Х | -2.442 | -2.442 | 0 | %100 |
| 40 | M40 | Z | 0 | 0 | 0 | %100 |
| 41 | M41 | Х | -2.442 | -2.442 | 0 | %100 |
| 42 | M41 | Z | 0 | 0 | 0 | %100 |
| 43 | M42 | Х | -2.131 | -2.131 | 0 | %100 |
| 44 | M42 | Z | 0 | 0 | 0 | %100 |
| 45 | M43 | X | -2.022 | -2.022 | 0 | %100 |
| 46 | M43 | Z | 0 | 0 | 0 | %100 |
| 47 | M44 | x | -2.022 | -2.022 | 0 | %100 |
| 48 | M44 | Z | 0 | 0 | 0 | %100 |
| 49 | M45 | X | -2.131 | -2.131 | 0 | %100 |
| 50 | M45 | Z | 0 | 0 | 0 | %100 |
| 51 | M46 | X | -2.433 | -2.433 | 0 | %100 |
| 52 | M40 | Z | -2.433 | 0 | 0 | %100 |
| 52 | WI -I U | 2 | U | U | U | 70100 |

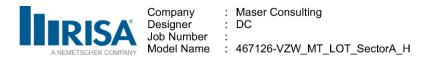


Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 53 | M47 | X | -2.433 | -2.433 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | Х | -2.433 | -2.433 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | Х | -2.433 | -2.433 | 0 | %100 |
| 58 | M49 | Z | 0 | 0 | 0 | %100 |
| 59 | M50 | X | -3.085 | -3.085 | 0 | %100 |
| 60 | M50 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | | End Magnitude[lb/ft,F | | End Location[ft,%] |
|----|--------------|-----------|--------|-----------------------|---|--------------------|
| 1 | M1 | Χ | 759 | 759 | 0 | %100 |
| 2 | M1 | Z | 438 | 438 | 0 | %100 |
| 3 | M2 | X | 759 | 759 | 0 | %100 |
| 4 | M2 | Z | 438 | 438 | 0 | %100 |
| 5 | MP4A | X | -2.745 | -2.745 | 0 | %100 |
| 6 | MP4A | Z | -1.585 | -1.585 | 0 | %100 |
| 7 | MP3A | X | -2.745 | -2.745 | 0 | %100 |
| 8 | MP3A | Z | -1.585 | -1.585 | 0 | %100 |
| 9 | MP2A | X | -2.75 | -2.75 | 0 | %100 |
| 10 | MP2A | Z | -1.588 | -1.588 | 0 | %100 |
| 11 | MP1A | X | -2.745 | -2.745 | 0 | %100 |
| 12 | MP1A | Z | -1.585 | -1.585 | 0 | %100 |
| 13 | M23 | X | 093 | 093 | 0 | %100 |
| 14 | M23 | Z | 053 | 053 | 0 | %100 |
| 15 | M24 | <u> </u> | -1.04 | -1.04 | 0 | %100 |
| 16 | M24 | Z | 6 | 6 | 0 | %100 |
| 17 | M25 | Х | -1.04 | -1.04 | 0 | %100 |
| 18 | M25 | Z | 6 | 6 | 0 | %100 |
| 19 | M26 | Х | 093 | 093 | 0 | %100 |
| 20 | M26 | Z | 053 | 053 | 0 | %100 |
| 21 | M29 | Х | -3.539 | -3.539 | 0 | %100 |
| 22 | M29 | Z | -2.043 | -2.043 | 0 | %100 |
| 23 | M32 | Χ | 247 | 247 | 0 | %100 |
| 24 | M32 | Z | 143 | 143 | 0 | %100 |
| 25 | M33 | X | -2.62 | -2.62 | 0 | %100 |
| 26 | M33 | Z | -1.513 | -1.513 | 0 | %100 |
| 27 | M34 | X | -2.62 | -2.62 | 0 | %100 |
| 28 | M34 | Z | -1.513 | -1.513 | 0 | %100 |
| 29 | M35 | X | 247 | 247 | 0 | %100 |
| 30 | M35 | Z | 143 | 143 | 0 | %100 |
| 31 | M36 | X | -1.508 | -1.508 | 0 | %100 |
| 32 | M36 | Z | 871 | 871 | 0 | %100 |
| 33 | M37 | X | -1.508 | -1.508 | 0 | %100 |
| 34 | M37 | Z | 871 | 871 | 0 | %100 |
| 35 | M38 | X | -1.508 | -1.508 | 0 | %100 |
| 36 | M38 | Z | 871 | 871 | 0 | %100 |
| 37 | M39 | <u> </u> | -1.508 | -1.508 | 0 | %100 |
| 38 | M39 | Z | 871 | 871 | 0 | %100 |
| 39 | M40 | <u> </u> | -2.114 | -2.114 | 0 | %100 |
| 40 | M40 | Z | -1.221 | -1.221 | 0 | %100 |
| 41 | M41 | <u> </u> | -2.114 | -2.114 | 0 | %100 |
| 42 | M41 | Z | -1.221 | -1.221 | 0 | %100 |
| 43 | M42 | <u> </u> | -1.455 | -1.455 | 0 | %100 |
| 44 | M42 | Z | 84 | 84 | 0 | %100 |
| 45 | M43 | Х | -1.307 | -1.307 | 0 | %100 |

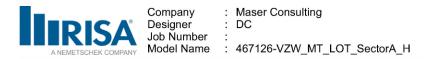


Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 46 | M43 | Z | 755 | 755 | 0 | %100 |
| 47 | M44 | Х | -2.151 | -2.151 | 0 | %100 |
| 48 | M44 | Z | -1.242 | -1.242 | 0 | %100 |
| 49 | M45 | Х | -2.199 | -2.199 | 0 | %100 |
| 50 | M45 | Z | -1.269 | -1.269 | 0 | %100 |
| 51 | M46 | Х | -2.107 | -2.107 | 0 | %100 |
| 52 | M46 | Z | -1.216 | -1.216 | 0 | %100 |
| 53 | M47 | Х | -2.107 | -2.107 | 0 | %100 |
| 54 | M47 | Z | -1.216 | -1.216 | 0 | %100 |
| 55 | M48 | Х | -2.107 | -2.107 | 0 | %100 |
| 56 | M48 | Z | -1.216 | -1.216 | 0 | %100 |
| 57 | M49 | Х | -2.107 | -2.107 | 0 | %100 |
| 58 | M49 | Z | -1.216 | -1.216 | 0 | %100 |
| 59 | M50 | Х | -1.629 | -1.629 | 0 | %100 |
| 60 | M50 | Z | 94 | 94 | 0 | %100 |

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

| memoc | | | | | | |
|-------|--------------|-----------|--------|-------------------------|------------------------|--------------------|
| | Member Label | Direction | | End Magnitude[lb/ft,F., | . Start Location[ft,%] | End Location[ft,%] |
| 1 | M1 | X | -1.315 | -1.315 | 0 | %100 |
| 2 | M1 | Z | -2.278 | -2.278 | 0 | %100 |
| 3 | M2 | X | -1.315 | -1.315 | 0 | %100 |
| 4 | M2 | Z | -2.278 | -2.278 | 0 | %100 |
| 5 | MP4A | X | -1.585 | -1.585 | 0 | %100 |
| 6 | MP4A | Z | -2.745 | -2.745 | 0 | %100 |
| 7 | MP3A | X | -1.585 | -1.585 | 0 | %100 |
| 8 | MP3A | Z | -2.745 | -2.745 | 0 | %100 |
| 9 | MP2A | X | -1.588 | -1.588 | 0 | %100 |
| 10 | MP2A | Z | -2.75 | -2.75 | 0 | %100 |
| 11 | MP1A | X | -1.585 | -1.585 | 0 | %100 |
| 12 | MP1A | Z | -2.745 | -2.745 | 0 | %100 |
| 13 | M23 | X | 033 | 033 | 0 | %100 |
| 14 | M23 | Z | 056 | 056 | 0 | %100 |
| 15 | M24 | X | 579 | 579 | 0 | %100 |
| 16 | M24 | Z | -1.003 | -1.003 | 0 | %100 |
| 17 | M25 | X | 579 | 579 | 0 | %100 |
| 18 | M25 | Z | -1.003 | -1.003 | 0 | %100 |
| 19 | M26 | X | 033 | 033 | 0 | %100 |
| 20 | M26 | Z | 056 | 056 | 0 | %100 |
| 21 | M29 | X | -2.043 | -2.043 | 0 | %100 |
| 22 | M29 | Z | -3.539 | -3.539 | 0 | %100 |
| 23 | M32 | X | 075 | 075 | 0 | %100 |
| 24 | M32 | Z | 13 | 13 | 0 | %100 |
| 25 | M33 | X | -1.445 | -1.445 | 0 | %100 |
| 26 | M33 | Z | -2.503 | -2.503 | 0 | %100 |
| 27 | M34 | X | -1.445 | -1.445 | 0 | %100 |
| 28 | M34 | Z | -2.503 | -2.503 | 0 | %100 |
| 29 | M35 | X | 075 | 075 | 0 | %100 |
| 30 | M35 | Z | 13 | 13 | 0 | %100 |
| 31 | M36 | X | -1.264 | -1.264 | 0 | %100 |
| 32 | M36 | Z | -2.19 | -2.19 | 0 | %100 |
| 33 | M37 | X | -1.264 | -1.264 | 0 | %100 |
| 34 | M37 | Z | -2.19 | -2.19 | 0 | %100 |
| 35 | M38 | Х | -1.264 | -1.264 | 0 | %100 |
| 36 | M38 | Z | -2.19 | -2.19 | 0 | %100 |
| 37 | M39 | X | -1.264 | -1.264 | 0 | %100 |
| 38 | M39 | Z | -2.19 | -2.19 | 0 | %100 |
| | | | | | | |

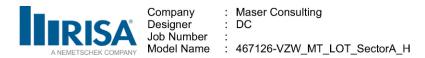


Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 39 | M40 | Х | -1.221 | -1.221 | 0 | %100 |
| 40 | M40 | Z | -2.114 | -2.114 | 0 | %100 |
| 41 | M41 | Х | -1.221 | -1.221 | 0 | %100 |
| 42 | M41 | Z | -2.114 | -2.114 | 0 | %100 |
| 43 | M42 | Х | 819 | 819 | 0 | %100 |
| 44 | M42 | Z | -1.419 | -1.419 | 0 | %100 |
| 45 | M43 | Х | 73 | 73 | 0 | %100 |
| 46 | M43 | Z | -1.264 | -1.264 | 0 | %100 |
| 47 | M44 | Х | -1.217 | -1.217 | 0 | %100 |
| 48 | M44 | Z | -2.108 | -2.108 | 0 | %100 |
| 49 | M45 | Х | -1.248 | -1.248 | 0 | %100 |
| 50 | M45 | Z | -2.162 | -2.162 | 0 | %100 |
| 51 | M46 | Х | -1.216 | -1.216 | 0 | %100 |
| 52 | M46 | Z | -2.107 | -2.107 | 0 | %100 |
| 53 | M47 | Х | -1.216 | -1.216 | 0 | %100 |
| 54 | M47 | Z | -2.107 | -2.107 | 0 | %100 |
| 55 | M48 | Х | -1.216 | -1.216 | 0 | %100 |
| 56 | M48 | Z | -2.107 | -2.107 | 0 | %100 |
| 57 | M49 | Х | -1.216 | -1.216 | 0 | %100 |
| 58 | M49 | Z | -2.107 | -2.107 | 0 | %100 |
| 59 | M50 | Х | 191 | 191 | 0 | %100 |
| 60 | M50 | Z | 331 | 331 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 686 | 686 | 0 | %100 |
| 3 | M2 | Х | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 686 | 686 | 0 | %100 |
| 5 | MP4A | Х | 0 | 0 | 0 | %100 |
| 6 | MP4A | Z | 567 | 567 | 0 | %100 |
| 7 | MP3A | Х | 0 | 0 | 0 | %100 |
| 8 | MP3A | Z | 567 | 567 | 0 | %100 |
| 9 | MP2A | Х | 0 | 0 | 0 | %100 |
| 10 | MP2A | Z | 567 | 567 | 0 | %100 |
| 11 | MP1A | Х | 0 | 0 | 0 | %100 |
| 12 | MP1A | Z | 567 | 567 | 0 | %100 |
| 13 | M23 | X | 0 | 0 | 0 | %100 |
| 14 | M23 | Z | 056 | 056 | 0 | %100 |
| 15 | M24 | X | 0 | 0 | 0 | %100 |
| 16 | M24 | Z | 056 | 056 | 0 | %100 |
| 17 | M25 | X | 0 | 0 | 0 | %100 |
| 18 | M25 | Z | 056 | 056 | 0 | %100 |
| 19 | M26 | X | 0 | 0 | 0 | %100 |
| 20 | M26 | Z | 056 | 056 | 0 | %100 |
| 21 | M29 | Х | 0 | 0 | 0 | %100 |
| 22 | M29 | Z | 742 | 742 | 0 | %100 |
| 23 | M32 | Х | 0 | 0 | 0 | %100 |
| 24 | M32 | Z | 259 | 259 | 0 | %100 |
| 25 | M33 | Χ | 0 | 0 | 0 | %100 |
| 26 | M33 | Z | 259 | 259 | 0 | %100 |
| 27 | M34 | X | 0 | 0 | 0 | %100 |
| 28 | M34 | Z | 259 | 259 | 0 | %100 |
| 29 | M35 | X | 0 | 0 | 0 | %100 |
| 30 | M35 | Z | 259 | 259 | 0 | %100 |
| 31 | M36 | X | 0 | 0 | 0 | %100 |

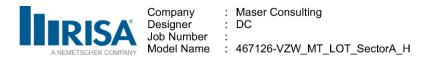


Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 32 | M36 | Z | 716 | 716 | 0 | %100 |
| 33 | M37 | Х | 0 | 0 | 0 | %100 |
| 34 | M37 | Z | 716 | 716 | 0 | %100 |
| 35 | M38 | Х | 0 | 0 | 0 | %100 |
| 36 | M38 | Z | 716 | 716 | 0 | %100 |
| 37 | M39 | Х | 0 | 0 | 0 | %100 |
| 38 | M39 | Z | 716 | 716 | 0 | %100 |
| 39 | M40 | Х | 0 | 0 | 0 | %100 |
| 40 | M40 | Z | 437 | 437 | 0 | %100 |
| 41 | M41 | Х | 0 | 0 | 0 | %100 |
| 42 | M41 | Z | 437 | 437 | 0 | %100 |
| 43 | M42 | Х | 0 | 0 | 0 | %100 |
| 44 | M42 | Z | 313 | 313 | 0 | %100 |
| 45 | M43 | Х | 0 | 0 | 0 | %100 |
| 46 | M43 | Z | 3 | 3 | 0 | %100 |
| 47 | M44 | Χ | 0 | 0 | 0 | %100 |
| 48 | M44 | Z | 3 | 3 | 0 | %100 |
| 49 | M45 | Х | 0 | 0 | 0 | %100 |
| 50 | M45 | Z | 313 | 313 | 0 | %100 |
| 51 | M46 | X | 0 | 0 | 0 | %100 |
| 52 | M46 | Z | 389 | 389 | 0 | %100 |
| 53 | M47 | Х | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | 389 | 389 | 0 | %100 |
| 55 | M48 | X | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | 389 | 389 | 0 | %100 |
| 57 | M49 | X | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | 389 | 389 | 0 | %100 |
| 59 | M50 | Х | 0 | 0 | 0 | %100 |
| 60 | M50 | Z | 016 | 016 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | .257 | .257 | 0 | %100 |
| 2 | M1 | Z | 445 | 445 | 0 | %100 |
| 3 | M2 | Х | .257 | .257 | 0 | %100 |
| 4 | M2 | Z | 445 | 445 | 0 | %100 |
| 5 | MP4A | Х | .283 | .283 | 0 | %100 |
| 6 | MP4A | Z | 491 | 491 | 0 | %100 |
| 7 | MP3A | Х | .283 | .283 | 0 | %100 |
| 8 | MP3A | Z | 491 | 491 | 0 | %100 |
| 9 | MP2A | X | .283 | .283 | 0 | %100 |
| 10 | MP2A | Z | 491 | 491 | 0 | %100 |
| 11 | MP1A | X | .283 | .283 | 0 | %100 |
| 12 | MP1A | Z | 491 | 491 | 0 | %100 |
| 13 | M23 | Х | .055 | .055 | 0 | %100 |
| 14 | M23 | Z | 095 | 095 | 0 | %100 |
| 15 | M24 | Х | .003 | .003 | 0 | %100 |
| 16 | M24 | Z | 005 | 005 | 0 | %100 |
| 17 | M25 | X | .003 | .003 | 0 | %100 |
| 18 | M25 | Z | 005 | 005 | 0 | %100 |
| 19 | M26 | X | .055 | .055 | 0 | %100 |
| 20 | M26 | Z | 095 | 095 | 0 | %100 |
| 21 | M29 | X | .371 | .371 | 0 | %100 |
| 22 | M29 | Z | 643 | 643 | 0 | %100 |
| 23 | M32 | Х | .258 | .258 | 0 | %100 |
| 24 | M32 | Z | 447 | 447 | 0 | %100 |

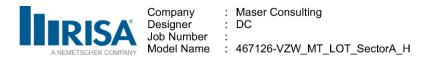


Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 25 | M33 | Х | .013 | .013 | 0 | %100 |
| 26 | M33 | Z | 023 | 023 | 0 | %100 |
| 27 | M34 | Х | .013 | .013 | 0 | %100 |
| 28 | M34 | Z | 023 | 023 | 0 | %100 |
| 29 | M35 | Х | .258 | .258 | 0 | %100 |
| 30 | M35 | Z | 447 | 447 | 0 | %100 |
| 31 | M36 | X | .287 | .287 | 0 | %100 |
| 32 | M36 | Z | 497 | 497 | 0 | %100 |
| 33 | M37 | X | .287 | .287 | 0 | %100 |
| 34 | M37 | Z | 497 | 497 | 0 | %100 |
| 35 | M38 | X | .287 | .287 | 0 | %100 |
| 36 | M38 | Z | 497 | 497 | 0 | %100 |
| 37 | M39 | Х | .287 | .287 | 0 | %100 |
| 38 | M39 | Z | 497 | 497 | 0 | %100 |
| 39 | M40 | Х | .218 | .218 | 0 | %100 |
| 40 | M40 | Z | 378 | 378 | 0 | %100 |
| 41 | M41 | X | .218 | .218 | 0 | %100 |
| 42 | M41 | Z | 378 | 378 | 0 | %100 |
| 43 | M42 | X | .191 | .191 | 0 | %100 |
| 44 | M42 | Z | 331 | 331 | 0 | %100 |
| 45 | M43 | X | .19 | .19 | 0 | %100 |
| 46 | M43 | Z | 329 | 329 | 0 | %100 |
| 47 | M44 | X | .114 | .114 | 0 | %100 |
| 48 | M44 | Z | 197 | 197 | 0 | %100 |
| 49 | M45 | X | .125 | .125 | 0 | %100 |
| 50 | M45 | Z | 217 | 217 | 0 | %100 |
| 51 | M46 | X | .195 | .195 | 0 | %100 |
| 52 | M46 | Z | 337 | 337 | 0 | %100 |
| 53 | M47 | Х | .195 | .195 | 0 | %100 |
| 54 | M47 | Z | 337 | 337 | 0 | %100 |
| 55 | M48 | Х | .195 | .195 | 0 | %100 |
| 56 | M48 | Z | 337 | 337 | 0 | %100 |
| 57 | M49 | Х | .195 | .195 | 0 | %100 |
| 58 | M49 | Z | 337 | 337 | 0 | %100 |
| 59 | M50 | Х | .116 | .116 | 0 | %100 |
| 60 | M50 | Z | 2 | 2 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | .148 | .148 | 0 | %100 |
| 2 | M1 | Z | 086 | 086 | 0 | %100 |
| 3 | M2 | Х | .148 | .148 | 0 | %100 |
| 4 | M2 | Z | 086 | 086 | 0 | %100 |
| 5 | MP4A | Х | .491 | .491 | 0 | %100 |
| 6 | MP4A | Z | 283 | 283 | 0 | %100 |
| 7 | MP3A | Х | .491 | .491 | 0 | %100 |
| 8 | MP3A | Z | 283 | 283 | 0 | %100 |
| 9 | MP2A | Х | .491 | .491 | 0 | %100 |
| 10 | MP2A | Z | 283 | 283 | 0 | %100 |
| 11 | MP1A | Х | .491 | .491 | 0 | %100 |
| 12 | MP1A | Z | 283 | 283 | 0 | %100 |
| 13 | M23 | Х | .098 | .098 | 0 | %100 |
| 14 | M23 | Z | 057 | 057 | 0 | %100 |
| 15 | M24 | Х | .009 | .009 | 0 | %100 |
| 16 | M24 | Z | 005 | 005 | 0 | %100 |
| 17 | M25 | Х | .009 | .009 | 0 | %100 |

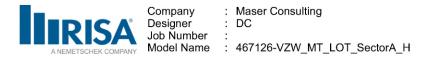


Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 18 | M25 | Z | 005 | 005 | 0 | %100 |
| 19 | M26 | Х | .098 | .098 | 0 | %100 |
| 20 | M26 | Z | 057 | 057 | 0 | %100 |
| 21 | M29 | Х | .643 | .643 | 0 | %100 |
| 22 | M29 | Z | 371 | 371 | 0 | %100 |
| 23 | M32 | Х | .467 | .467 | 0 | %100 |
| 24 | M32 | Z | 27 | 27 | 0 | %100 |
| 25 | M33 | Х | .044 | .044 | 0 | %100 |
| 26 | M33 | Z | 025 | 025 | 0 | %100 |
| 27 | M34 | Х | .044 | .044 | 0 | %100 |
| 28 | M34 | Z | 025 | 025 | 0 | %100 |
| 29 | M35 | Х | .467 | .467 | 0 | %100 |
| 30 | M35 | Z | 27 | 27 | 0 | %100 |
| 31 | M36 | Х | .252 | .252 | 0 | %100 |
| 32 | M36 | Z | 145 | 145 | 0 | %100 |
| 33 | M37 | Х | .252 | .252 | 0 | %100 |
| 34 | M37 | Z | 145 | 145 | 0 | %100 |
| 35 | M38 | Х | .252 | .252 | 0 | %100 |
| 36 | M38 | Z | 145 | 145 | 0 | %100 |
| 37 | M39 | Х | .252 | .252 | 0 | %100 |
| 38 | M39 | Z | 145 | 145 | 0 | %100 |
| 39 | M40 | Х | .378 | .378 | 0 | %100 |
| 40 | M40 | Z | 218 | 218 | 0 | %100 |
| 41 | M41 | Х | .378 | .378 | 0 | %100 |
| 42 | M41 | Z | 218 | 218 | 0 | %100 |
| 43 | M42 | Х | .337 | .337 | 0 | %100 |
| 44 | M42 | Z | 194 | 194 | 0 | %100 |
| 45 | M43 | Х | .336 | .336 | 0 | %100 |
| 46 | M43 | Z | 194 | 194 | 0 | %100 |
| 47 | M44 | X | .204 | .204 | 0 | %100 |
| 48 | M44 | Z | 118 | 118 | 0 | %100 |
| 49 | M45 | Х | .223 | .223 | 0 | %100 |
| 50 | M45 | Z | 129 | 129 | 0 | %100 |
| 51 | M46 | X | .337 | .337 | 0 | %100 |
| 52 | M46 | Z | 195 | 195 | 0 | %100 |
| 53 | M47 | X | .337 | .337 | 0 | %100 |
| 54 | M47 | Z | 195 | 195 | 0 | %100 |
| 55 | M48 | X | .337 | .337 | 0 | %100 |
| 56 | M48 | Z | 195 | 195 | 0 | %100 |
| 57 | M49 | X | .337 | .337 | 0 | %100 |
| 58 | M49 | Z | 195 | 195 | 0 | %100 |
| 59 | M50 | X | .432 | .432 | 0 | %100 |
| 60 | M50 | Z | 249 | 249 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | Х | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | MP4A | Х | .567 | .567 | 0 | %100 |
| 6 | MP4A | Z | 0 | 0 | 0 | %100 |
| 7 | MP3A | Х | .567 | .567 | 0 | %100 |
| 8 | MP3A | Z | 0 | 0 | 0 | %100 |
| 9 | MP2A | Х | .567 | .567 | 0 | %100 |
| 10 | MP2A | Z | 0 | 0 | 0 | %100 |

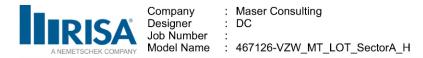


Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

| 11 MP1A X .567 .567 0 %100 12 MP1A Z 0 0 0 %100 13 M23 X .064 .064 0 %100 14 M23 Z 0 0 0 %100 16 M24 Z 0 0 0 %100 16 M24 Z 0 0 0 %100 18 M25 Z 0 0 %100 %100 20 M26 Z 0 0 %100 %100 21 M29 Z 0 0 0 %100 23 M32 Z 0 0 %100 %100 24 M32 Z 0 0 %100 %100 24 M32 Z 0 0 %100 %100 25 M33 X 307 307 | | Member Label | Direction | | End Magnitude[lb/ft E | | End Location[ft,%] |
|--|----|--------------|-----------|------|-----------------------|---|--------------------|
| 12 MP1A Z 0 0 0 %100 13 M23 X 064 064 0 %100 14 M23 Z 0 0 0 %100 15 M24 X .064 .064 0 %100 17 M25 X .064 .064 0 %100 18 M25 Z 0 0 0 %100 20 M26 X .064 .064 0 %100 21 M29 X .742 .742 0 %100 23 M32 X .307 .307 0 %100 24 M32 Z 0 0 0 %100 25 M33 X .307 .307 0 %100 26 M34 Z 0 0 0 %100 29 M35 X .307 .30 | 11 | | | | | | |
| 13 M23 X .064 .064 0 %100 15 M24 X .064 .064 0 %100 16 M24 Z 0 0 0 %100 16 M24 Z 0 0 0 %100 17 M25 X .064 .064 0 %100 19 M26 X .064 .064 0 %100 20 M26 Z 0 0 0 %100 21 M29 X .742 .742 .0 %100 23 M32 X .307 .307 0 %100 24 M32 Z 0 0 0 %100 26 M33 Z 0 0 0 %100 27 M34 X .307 .307 0 %100 30 M35 Z 0 0 <td></td> <td></td> <td>7</td> <td></td> <td></td> <td></td> <td></td> | | | 7 | | | | |
| 14 M23 Z 0 0 0 %100 15 M24 X 064 064 0 %100 16 M24 Z 0 0 0 %100 17 M25 X .064 .064 0 %100 19 M26 X .064 .064 0 %100 20 M26 Z 0 0 0 %100 21 M29 X .742 .742 .0 %100 23 M32 X .307 .307 0 %100 24 M32 Z 0 0 0 %100 26 M33 X <t.307< td=""> .307 0 %100 27 M34 X .307 .307 0 %100 29 M35 X .149 .149 0 %100 30 M35 Z 0 0<</t.307<> | | | | | | | |
| 15 M24 X 064 064 0 $\%$ 100 16 M25 X 064 064 0 $\%$ 100 18 M25 Z 0 0 0 $\%$ 100 19 M26 X .064 .064 0 $\%$ 100 20 M26 Z 0 0 0 $\%$ 100 21 M29 X .742 .742 0 $\%$ 100 23 M32 X .307 .307 0 $\%$ 100 24 M32 Z 0 0 0 $\%$ 100 25 M33 X .307 .307 0 $\%$ 100 26 M33 Z 0 0 0 $\%$ 100 28 M34 Z 0 0 0 $\%$ 100 29 M35 X .307 .307 0 $\%$ 100 30 M37 X .149 | | | | | | | |
| 16 M24 Z 0 0 0 $\%$ 100 17 M25 X .064 .064 0 $\%$ 100 19 M26 X .064 .064 0 $\%$ 100 20 M26 Z 0 0 0 $\%$ 100 21 M29 X .742 .742 0 0 $\%$ 100 22 M32 X .307 .307 0 $\%$ 100 24 M32 Z 0 0 0 $\%$ 100 26 M33 X .307 .307 0 $\%$ 100 26 M33 Z 0 0 0 $\%$ 100 28 M34 Z 0 0 0 $\%$ 100 30 M35 Z 0 0 0 $\%$ 100 31 M36 X .149 .149 0 $\%$ 100 33 M37 Z | | | | ÷ | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 7 | | | | |
| 18 M25 Z 0 0 0 $\%$ 100 19 M26 X .064 .064 0 $\%$ 100 20 M26 Z 0 0 0 $\%$ 100 21 M29 X .742 .742 0 $\%$ 100 22 M29 Z 0 0 0 $\%$ 100 23 M32 X .307 .307 0 $\%$ 100 24 M32 Z 0 0 0 $\%$ 100 26 M33 X .307 .307 0 $\%$ 100 28 M34 Z 0 0 0 $\%$ 100 29 M35 X .307 .307 0 $\%$ 100 31 M36 Z 0 0 0 $\%$ 100 32 M36 Z 0 0 0 $\%$ 100 34 M37 Z 0 | | | | | | | %100 |
| 19M26X006400640 $\%100$ 20M26Z000 $\%100$ 21M29X.742.7420 $\%100$ 22M29Z000 $\%100$ 23M32X.307.3070 $\%100$ 24M32Z000 $\%100$ 25M33X.307.3070 $\%100$ 26M33Z000 $\%100$ 27M34X.307.3070 $\%100$ 28M35X.307.3070 $\%100$ 29M35X.307.3070 $\%100$ 30M35Z000 $\%100$ 31M36X.149.1490 $\%100$ 32M36Z000 $\%100$ 34M37Z000 $\%100$ 35M38X.149.1490 $\%100$ 36M38Z000 $\%100$ 37M39X.149.1490 $\%100$ 38M39Z000 $\%100$ 38M39Z000 $\%100$ 44M42Z000 $\%100$ 43M42X.326.3260 $\%100$ 44M44Z00 | | | | | | | |
| 20 M26 Z 0 0 0 $\%100$ 21 M29 X .742 .742 0 $\%100$ 22 M32 X .307 .307 0 $\%100$ 23 M32 X .307 .307 0 $\%100$ 24 M32 Z 0 0 0 $\%100$ 26 M33 X .307 .307 0 $\%100$ 26 M33 Z 0 0 0 $\%100$ 27 M34 X .307 .307 0 $\%100$ 28 M34 Z 0 0 0 $\%100$ 30 M35 Z 0 0 0 $\%100$ 31 M36 X .149 .149 0 $\%100$ 33 M37 X .149 .149 0 $\%100$ 35 M38 X | | | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 22 M29 Z 0 0 0 $\%$ 100 23 M32 X .307 .307 0 $\%$ 100 24 M32 Z 0 0 0 $\%$ 100 25 M33 X .307 .307 0 $\%$ 100 26 M33 Z 0 0 0 $\%$ 100 27 M34 X .307 .307 0 $\%$ 100 28 M34 Z 0 0 0 $\%$ 100 29 M35 X .307 .307 0 $\%$ 100 30 M35 Z 0 0 0 $\%$ 100 31 M36 X .149 .149 0 $\%$ 100 33 M37 X .149 .149 0 $\%$ 100 34 M37 Z 0 0 0 $\%$ 100 36 M38 Z 0 | | | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 24 M32 Z 0 0 0 $\%100$ 25 M33 X .307 .307 0 $\%100$ 26 M33 Z 0 0 0 $\%100$ 27 M34 X .307 .307 0 $\%100$ 28 M34 Z 0 0 0 $\%100$ 29 M35 X .307 .307 0 $\%100$ 30 M35 Z 0 0 0 $\%100$ 31 M36 X .149 .149 0 $\%100$ 32 M36 Z 0 0 0 $\%100$ 34 M37 Z 0 0 0 $\%100$ 35 M38 X .149 .149 0 $\%100$ 36 M38 Z 0 0 0 $\%100$ 36 M38 Z 0 | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 26 M33 Z 0 0 0 %100 27 M34 X .307 .307 0 %100 28 M34 Z 0 0 0 %100 29 M35 X .307 .307 0 %100 30 M35 Z 0 0 0 %100 31 M36 X .149 .149 0 %100 33 M37 X .149 .149 0 %100 34 M37 Z 0 0 0 %100 35 M38 Z 0 0 0 %100 36 M38 Z 0 0 0 %100 38 M39 X .149 .149 0 %100 39 M40 X .437 .437 0 %100 41 M41 Z 0 0 | | | | | - | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 7 | | | | |
| 28M34Z000%10029M35X.307.3070%10030M35Z000%10031M36X.149.1490%10032M36Z000%10034M37X.1149.1490%10035M38X.149.1490%10036M38Z000%10037M39X.149.1490%10038M39Z000%10039M40X.437.4370%10041M41Z000%10042M41Z000%10043M42X.326.3260%10044M43Z000%10045M43X.316.3160%10048M44Z000%10050M45X.326.3260%10051M46X.389.3890%10054M47Z000%10055M48X.339.3890%10056M48Z000%10058M49Z000%10059 | | | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | |
| 30M35Z000 $\%100$ 31M36X.149.1490 $\%100$ 32M36Z000 $\%100$ 33M37X.149.1490 $\%100$ 34M37Z000 $\%100$ 35M38X.149.1490 $\%100$ 36M38Z000 $\%100$ 37M39X.149.1490 $\%100$ 38M39Z000 $\%100$ 39M40X.437.4370 $\%100$ 40M40Z000 $\%100$ 41M41X.437.4370 $\%100$ 43M42X.326.3260 $\%100$ 44M42Z000 $\%100$ 45M43Z000 $\%100$ 46M43Z000 $\%100$ 47M44X.316.3160 $\%100$ 48M44Z000 $\%100$ 50M45Z000 $\%100$ 51M46X.389.3890 $\%100$ 52M46Z000 $\%100$ 54M47Z000 $\%100$ 55M48X.389.3890< | | | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | |
| 32M36Z000 $%100$ 33M37X.149.1490 $%100$ 34M37Z000 $%100$ 35M38X.149.1490 $%100$ 36M38Z000 $%100$ 37M39X.149.1490 $%100$ 38M39Z000 $%100$ 39M40X.437.4370 $%100$ 40M40Z000 $%100$ 41M41X.437.4370 $%100$ 42M41Z000 $%100$ 43M42X.326.3260 $%100$ 44M42Z000 $%100$ 45M43X.316.3160 $%100$ 46M43Z000 $%100$ 47M44X.326.3260 $%100$ 48M44Z000 $%100$ 50M45Z000 $%100$ 51M46X.389.3890 $%100$ 52M46Z000 $%100$ 55M48X.389.3890 $%100$ 56M48Z000 $%100$ 56M48Z00 | | | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | 7 | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | - | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 7 | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 42M41Z000%10043M42X.326.3260%10044M42Z000%10045M43X.316.3160%10046M43Z000%10047M44X.316.3160%10048M44Z000%10049M45X.326.3260%10050M45Z000%10051M46X.389.3890%10052M46Z000%10053M47X.389.3890%10054M48X.389.3890%10055M48Z000%10056M48Z000%10057M49X.389.3890%10058M49Z000%10059M50X.55.550%100 | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 44 M42 Z 0 0 0 %100 45 M43 X .316 .316 0 %100 46 M43 Z 0 0 0 %100 47 M44 X .316 .316 0 %100 48 M44 Z 0 0 0 %100 49 M45 X .326 .326 0 %100 50 M45 Z 0 0 0 %100 51 M46 X .389 .389 0 %100 52 M46 Z 0 0 0 %100 53 M47 X .389 .389 0 %100 54 M47 Z 0 0 %100 %100 55 M48 X .389 .389 0 %100 55 M48 Z 0 0 | | | | | | | |
| 45M43X.316.3160%10046M43Z000%10047M44X.316.3160%10048M44Z000%10049M45X.326.3260%10050M45Z000%10051M46X.389.3890%10052M46Z000%10053M47X.389.3890%10054M47Z000%10055M48X.389.3890%10056M48Z000%10057M49X.389.3890%10058M49Z000%10059M50X.55.550%100 | | | | | | | |
| 46 M43 Z 0 0 0 %100 47 M44 X .316 .316 0 %100 48 M44 Z 0 0 0 %100 49 M45 X .326 .326 0 %100 50 M45 Z 0 0 0 %100 51 M46 X .389 .389 0 %100 52 M46 Z 0 0 0 %100 53 M47 X .389 .389 0 %100 54 M47 Z 0 0 0 %100 55 M48 X .389 .389 0 %100 56 M48 Z 0 0 0 %100 57 M49 X .389 .389 0 %100 58 M49 Z 0 0 | | | | | .316 | | |
| 47M44X.316.3160%10048M44Z000%10049M45X.326.3260%10050M45Z000%10051M46X.389.3890%10052M46Z000%10053M47X.389.3890%10054M47Z000%10055M48X.389.3890%10056M48Z000%10057M49X.389.3890%10058M49Z000%10059M50X.55.550%100 | | | | | | | |
| 48 M44 Z 0 0 %100 49 M45 X .326 .326 0 %100 50 M45 Z 0 0 0 %100 51 M46 X .389 .389 0 %100 52 M46 Z 0 0 0 %100 53 M47 X .389 .389 0 %100 54 M47 Z 0 0 0 %100 55 M48 X .389 .389 0 %100 56 M48 Z 0 0 0 %100 57 M48 Z 0 0 %100 %100 57 M49 X .389 .389 0 %100 58 M49 Z 0 0 %100 %100 59 M50 X .555 .55 0 | | | | | - | | |
| 49 M45 X .326 .326 0 %100 50 M45 Z 0 0 0 %100 51 M46 X .389 .389 0 %100 52 M46 Z 0 0 0 %100 53 M47 X .389 .389 0 %100 54 M47 Z 0 0 0 %100 55 M48 X .389 .389 0 %100 56 M48 Z 0 0 0 %100 57 M49 X .389 .389 0 %100 57 M49 X .389 .389 0 %100 58 M49 Z 0 0 %100 %100 59 M50 X .55 .55 0 %100 | | | | | | | |
| 50 M45 Z 0 0 %100 51 M46 X .389 .389 0 %100 52 M46 Z 0 0 0 %100 53 M47 X .389 .389 0 %100 54 M47 Z 0 0 0 %100 55 M48 X .389 .389 0 %100 56 M48 Z 0 0 0 %100 57 M49 X .389 .389 0 %100 57 M48 Z 0 0 0 %100 58 M49 Z 0 0 %100 %100 59 M50 X .55 .55 0 %100 | | | | ÷ | <u> </u> | | |
| 51 M46 X .389 .389 0 %100 52 M46 Z 0 0 0 %100 53 M47 X .389 .389 0 %100 54 M47 Z 0 0 0 %100 55 M48 X .389 .389 0 %100 56 M48 Z 0 0 0 %100 57 M49 X .389 .389 0 %100 58 M49 Z 0 0 0 %100 59 M50 X .55 .55 0 %100 | | | | | _ | | |
| 52 M46 Z 0 0 %100 53 M47 X .389 .389 0 %100 54 M47 Z 0 0 0 %100 55 M48 X .389 .389 0 %100 56 M48 Z 0 0 0 %100 57 M49 X .389 .389 0 %100 58 M49 Z 0 0 %100 %100 59 M50 X .55 .55 0 %100 | 51 | | Х | | | 0 | |
| 53M47X.389.3890%10054M47Z000%10055M48X.389.3890%10056M48Z000%10057M49X.389.3890%10058M49Z000%10059M50X.55.550%100 | 52 | | Z | | | | |
| 54 M47 Z 0 0 %100 55 M48 X .389 .389 0 %100 56 M48 Z 0 0 0 %100 57 M49 X .389 .389 0 %100 58 M49 Z 0 0 0 %100 59 M50 X .55 .55 0 %100 | | | Х | .389 | .389 | 0 | |
| 55 M48 X .389 .389 0 %100 56 M48 Z 0 0 0 %100 57 M49 X .389 .389 0 %100 58 M49 Z 0 0 0 %100 59 M50 X .55 .55 0 %100 | | | | | | | |
| 56 M48 Z 0 0 %100 57 M49 X .389 .389 0 %100 58 M49 Z 0 0 %100 59 M50 X .55 .55 0 %100 | | | Х | | .389 | | |
| 57M49X.389.3890%10058M49Z000%10059M50X.55.550%100 | | | Z | | | | |
| 58 M49 Z 0 0 %100 59 M50 X .55 .55 0 %100 | | | Х | .389 | .389 | | |
| 59 M50 X .55 .55 0 %100 | | | | | - | | |
| | 59 | | X | .55 | .55 | | %100 |
| | 60 | M50 | Z | 0 | 0 | 0 | %100 |

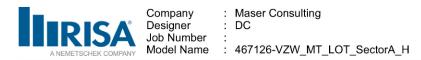
Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|---|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | .148 | .148 | 0 | %100 |
| 2 | M1 | Z | .086 | .086 | 0 | %100 |
| 3 | M2 | Х | .148 | .148 | 0 | %100 |



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

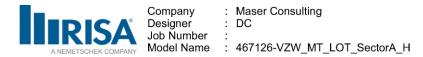
| 4 | Member Label | Direction | | End Magnitude[lb/ft,F. | | End Location[ft,%] |
|----------|--------------|-----------|--------------|------------------------|---|--------------------|
| 4 | M2 | Z | .086 | .086 | 0 | %100 |
| 5 | MP4A | X | .491 | .491 | 0 | %100 |
| 6 | MP4A | Z | .283 | .283 | 0 | %100 |
| 7 | MP3A | X | .491 | .491 | 0 | %100 |
| 8 | MP3A | Z | .283 | .283 | 0 | %100 |
| 9 | MP2A | X | .491 | .491 | 0 | %100 |
| 10 | MP2A | Z | .283 | .283 | 0 | %100 |
| 11 | MP1A | X | .491 | .491 | 0 | %100 |
| 12 | MP1A | Z | .283 | .283 | 0 | %100 |
| 13 | M23 | X | .009 | .009 | 0 | %100 |
| 14 | M23 | Z | .005 | .005 | 0 | %100 |
| 15 | M24 | X | .098 | .098 | 0 | %100 |
| 16 | M24 | Z | .057 | .057 | 0 | %100 |
| 17 | M25 | Х | .098 | .098 | 0 | %100 |
| 18 | M25 | Z | .057 | .057 | 0 | %100 |
| 19 | M26 | Х | .009 | .009 | 0 | %100 |
| 20 | M26 | Z | .005 | .005 | 0 | %100 |
| 21 | M29 | X | .643 | .643 | 0 | %100 |
| 22 | M29 | Z | .371 | .371 | 0 | %100 |
| 23 | M32 | X | .044 | .044 | 0 | %100 |
| 24 | M32 | Z | .025 | .025 | 0 | %100 |
| 25 | M33 | X | .467 | .467 | 0 | %100 |
| 26 | M33 | Z | .27 | .27 | 0 | %100 |
| 27 | M34 | x | .467 | .467 | 0 | %100 |
| 28 | M34 | Z | .27 | .27 | 0 | %100 |
| 29 | M35 | × | .044 | .044 | 0 | %100 |
| 30 | M35 | Z | .025 | .025 | 0 | %100 |
| 31 | M36 | X | .252 | .252 | 0 | %100 |
| 32 | M36 | Z | .145 | .145 | 0 | %100 |
| 33 | M37 | X | .252 | .252 | 0 | %100 |
| 34 | M37 | Z | .145 | .145 | 0 | %100 |
| 35 | M38 | X | .252 | .252 | 0 | %100 |
| 36 | M38 | Z | .145 | .145 | 0 | %100 |
| 37 | M39 | X | .252 | .252 | 0 | %100 |
| 38 | M39 | Z | .145 | .145 | 0 | %100 |
| 39 | M39 M40 | X | .143 | .378 | 0 | %100 |
| 40 | M40 | Z | .218 | .218 | 0 | %100 |
| 40 | M40 | X | .378 | .378 | 0 | %100 |
| 42 | M41 | Z | | .218 | 0 | %100 |
| | | | .218 | | | |
| 43 44 | M42 M42 | X | .223 | .223 .129 | 0 | %100 %100 |
| 44 | | Z | .129 | | | |
| | M43 | X Z | .204 | .204 | 0 | %100 |
| 46 | M43 | | .118 | .118 | 0 | %100 |
| 47 | M44 | X | .336 | .336 | 0 | %100 |
| 48 | M44 | Z | .194 | .194 | 0 | %100 |
| 49 | M45 | X | .337 | .337 | 0 | %100 |
| 50 | M45 | Z | .194 | .194 | 0 | %100 |
| 51 | M46 | X | .337 | .337 | 0 | %100 |
| 52 | M46 | Z | .195 | .195 | 0 | %100 |
| 53 | M47 | X | .337 | .337 | 0 | %100 |
| 54 | M47 | Z | .195 | .195 | 0 | %100 |
| 55 | M48 | X | .337 | .337 | 0 | %100 |
| 56 | M48 | Z | .195 | .195 | 0 | %100 |
| 57 | M49 | X | .337 | .337 | 0 | %100 |
| 58 | M49 | Z | .195 | .195 | 0 | %100 |
| | | | | | - | 0/ / 00 |
| 59 60 | M50 M50 | X Z | .291 .168 | .291 .168 | 0 | %100 %100 |



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

| 1 | Member Label | Direction | | .End Magnitude[lb/ft,F | | End Location[ft,%] |
|----|--------------|-----------|------|------------------------|--------|--------------------|
| 1 | <u>M1</u> | X | .257 | .257 | 0 | %100 |
| 2 | <u>M1</u> | Z | .445 | .445 | 0 | %100 |
| 3 | M2 | X | .257 | .257 | 0 | %100 |
| 4 | M2 | Z | .445 | .445 | 0 | %100 |
| 5 | MP4A | X | .283 | .283 | 0 | %100 |
| 6 | MP4A | Z | .491 | .491 | 0 | %100 |
| 7 | MP3A | X | .283 | .283 | 0 | %100 |
| 8 | MP3A | Z | .491 | .491 | 0 | %100 |
| 9 | MP2A | X | .283 | .283 | 0 | %100 |
| 10 | MP2A | Z | .491 | .491 | 0 | %100 |
| 11 | MP1A | X | .283 | .283 | 0 | %100 |
| 12 | MP1A | Z | .491 | .491 | 0 | %100 |
| 13 | M23 | x | .003 | .003 | 0 | %100 |
| 14 | M23 | Z | .005 | .005 | 0 | %100 |
| 15 | M23 | X | .055 | .055 | 0 | %100 |
| 16 | M24 | Z | .095 | .095 | 0 | %100 |
| | | | | | | |
| 17 | M25 | X Z | .055 | .055 | 0 | %100 |
| 18 | M25 | | .095 | .095 | 0 | %100 |
| 19 | M26 | X | .003 | .003 | 0 | %100 |
| 20 | M26 | Z | .005 | .005 | 0 | %100 |
| 21 | M29 | X | .371 | .371 | 0 | %100 |
| 22 | M29 | Z | .643 | .643 | 0 | %100 |
| 23 | M32 | X | .013 | .013 | 0 | %100 |
| 24 | M32 | Z | .023 | .023 | 0 | %100 |
| 25 | M33 | X | .258 | .258 | 0 | %100 |
| 26 | M33 | Z | .447 | .447 | 0 | %100 |
| 27 | M34 | Х | .258 | .258 | 0 | %100 |
| 28 | M34 | Z | .447 | .447 | 0 | %100 |
| 29 | M35 | X | .013 | .013 | 0 | %100 |
| 30 | M35 | Z | .023 | .023 | 0 | %100 |
| 31 | M36 | X | .287 | .287 | 0 | %100 |
| 32 | M36 | Z | .497 | .497 | 0 | %100 |
| 33 | M37 | X | .287 | .287 | 0 | %100 |
| | | Z | | | 0 | |
| 34 | M37 | | .497 | .497 | | %100 |
| 35 | M38 | X | .287 | .287 | 0 | %100 |
| 36 | M38 | Z | .497 | .497 | 0 | %100 |
| 37 | M39 | X | .287 | .287 | 0 | %100 |
| 38 | M39 | Z | .497 | .497 | 0 | %100 |
| 39 | M40 | X | .218 | .218 | 0 | %100 |
| 40 | M40 | Z | .378 | .378 | 0 | %100 |
| 41 | M41 | X | .218 | .218 | 0 | %100 |
| 42 | M41 | Z | .378 | .378 | 0 | %100 |
| 43 | M42 | X | .125 | .125 | 0 | %100 |
| 44 | M42 | Z | .217 | .217 | 0 | %100 |
| 45 | M43 | x | .114 | .114 | 0 0 | %100 |
| 46 | M43 | Z | .197 | .197 | 0 | %100 |
| 47 | M44 | X | .19 | .19 | 0 | %100 |
| 48 | M44 | Z | .329 | .329 | 0 | %100 |
| 40 | M45 | X | .191 | .191 | 0 | %100 |
| | | Z | | | | |
| 50 | M45 | | .331 | .331 | 0 | %100 |
| 51 | M46 | X | .195 | .195 | 0 | %100 |
| 52 | M46 | Z | .337 | .337 | 0 | %100 |
| 53 | M47 | X | .195 | .195 | 0 | %100 |
| 54 | M47 | Z | .337 | .337 | 0 | %100 |
| | | | 405 | .195 | 0 | %100 |
| 55 | M48 | X | .195 | | | |
| | M48 M48 | Z | .337 | .337 | 0 | %100 |

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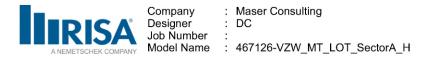


Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 58 | M49 | Z | .337 | .337 | 0 | %100 |
| 59 | M50 | Х | .034 | .034 | 0 | %100 |
| 60 | M50 | Z | .059 | .059 | 0 | %100 |

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

| memo | er Distributed Loo | | | | | |
|---------|--------------------|----------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| 1 | Member Label M1 | Direction X | Start Magnitude[lb/ft, 0 | .End Magnitude[lb/ft,F 0 | . Start Location[ft,%] 0 | End Location[ft,%] %100 |
| 2 | M1 | Z | .686 | .686 | 0 | %100 |
| 3 | M2 | X | 000 | 0 | 0 | %100 |
| 4 | M2 | Z | .686 | .686 | 0 | %100 |
| 5 | MP4A | X | 000 | 0 | 0 | %100 |
| 6 | MP4A MP4A | Z | .567 | .567 | 0 | %100 |
| 7 | | | 0.007 | .567 | | |
| | MP3A | X Z | .567 | .567 | 0 | %100 |
| 8 | MP3A | | 0.567 | | 0 | %100 |
| 9 10 | MP2A | X Z | .567 | 0 .567 | 0 | %100 |
| | MP2A | | | | | %100 |
| 11 | MP1A MP1A | X Z | 0 | 0 | 0 | %100 |
| 12 | | | .567 | .567 | 0 | %100 |
| 13 | M23 | X | 0 | 0 | 0 | %100 |
| 14 | M23 | Z | .056 | .056 | 0 | %100 |
| 15 | M24 | X | 0 | 0 | 0 | %100 |
| 16 | M24 | Z | .056 | .056 | 0 | %100 |
| 17 | M25 | X | 0 | 0 | 0 | %100 |
| 18 | M25 | Z | .056 | .056 | 0 | %100 |
| 19 | M26 | X | 0 | 0 | 0 | %100 |
| 20 | M26 | Z | .056 | .056 | 0 | %100 |
| 21 | M29 | X | 0 | 0 | 0 | %100 |
| 22 | M29 | Z | .742 | .742 | 0 | %100 |
| 23 | M32 | Х | 0 | 0 | 0 | %100 |
| 24 | M32 | Z | .259 | .259 | 0 | %100 |
| 25 | M33 | X | 0 | 0 | 0 | %100 |
| 26 | M33 | Z | .259 | .259 | 0 | %100 |
| 27 | M34 | X | 0 | 0 | 0 | %100 |
| 28 | M34 | Z | .259 | .259 | 0 | %100 |
| 29 | M35 | X | 0 | 0 | 0 | %100 |
| 30 | M35 | Z | .259 | .259 | 0 | %100 |
| 31 | M36 | X | 0 | 0 | 0 | %100 |
| 32 | M36 | Z | .716 | .716 | 0 | %100 |
| 33 | M37 | X | 0 | 0 | 0 | %100 |
| 34 | M37 | Z | .716 | .716 | 0 | %100 |
| 35 | M38 | Х | 0 | 0 | 0 | %100 |
| 36 | M38 | Z | .716 | .716 | 0 | %100 |
| 37 | M39 | Х | 0 | 0 | 0 | %100 |
| 38 | M39 | Z | .716 | .716 | 0 | %100 |
| 39 | M40 | X | 0 | 0 | 0 | %100 |
| 40 | M40 | Z | .437 | .437 | 0 | %100 |
| 41 | M41 | x | 0 | 0 | 0 | %100 |
| 42 | M41 | Z | .437 | .437 | 0 | %100 |
| 43 | M42 | X | 0 | 0 | 0 | %100 |
| 44 | M42 | Z | .313 | .313 | 0 | %100 |
| 45 | M43 | × | 0 | 0 | 0 | %100 |
| 46 | M43 | Z | .3 | .3 | 0 | %100 |
| 47 | M40 | X | 0 | 0 | 0 | %100 |
| 48 | M44 | Z | .3 | .3 | 0 | %100 |
| 49 | M45 | X | 0 | 0 | 0 | %100 |
| 50 | M45 | Z | .313 | .313 | 0 | %100 |
| 00 | WI-TU | <u> </u> | .010 | .010 | J | 70100 |

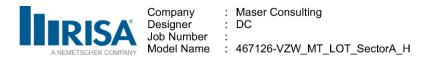


Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 51 | M46 | X | 0 | 0 | 0 | %100 |
| 52 | M46 | Z | .389 | .389 | 0 | %100 |
| 53 | M47 | X | 0 | 0 | 0 | %100 |
| 54 | M47 | Z | .389 | .389 | 0 | %100 |
| 55 | M48 | Х | 0 | 0 | 0 | %100 |
| 56 | M48 | Z | .389 | .389 | 0 | %100 |
| 57 | M49 | Х | 0 | 0 | 0 | %100 |
| 58 | M49 | Z | .389 | .389 | 0 | %100 |
| 59 | M50 | X | 0 | 0 | 0 | %100 |
| 60 | M50 | Z | .016 | .016 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|------------------------|------------------------|--------------------|
| 1 | M1 | X | 257 | 257 | 0 | %100 |
| 2 | M1 | Z | .445 | .445 | 0 | %100 |
| 3 | M2 | Х | 257 | 257 | 0 | %100 |
| 4 | M2 | Z | .445 | .445 | 0 | %100 |
| 5 | MP4A | Х | 283 | 283 | 0 | %100 |
| 6 | MP4A | Z | .491 | .491 | 0 | %100 |
| 7 | MP3A | Х | 283 | 283 | 0 | %100 |
| 8 | MP3A | Z | .491 | .491 | 0 | %100 |
| 9 | MP2A | Х | 283 | 283 | 0 | %100 |
| 10 | MP2A | Z | .491 | .491 | 0 | %100 |
| 11 | MP1A | Х | 283 | 283 | 0 | %100 |
| 12 | MP1A | Z | .491 | .491 | 0 | %100 |
| 13 | M23 | Х | 055 | 055 | 0 | %100 |
| 14 | M23 | Z | .095 | .095 | 0 | %100 |
| 15 | M24 | Х | 003 | 003 | 0 | %100 |
| 16 | M24 | Z | .005 | .005 | 0 | %100 |
| 17 | M25 | Х | 003 | 003 | 0 | %100 |
| 18 | M25 | Z | .005 | .005 | 0 | %100 |
| 19 | M26 | Х | 055 | 055 | 0 | %100 |
| 20 | M26 | Z | .095 | .095 | 0 | %100 |
| 21 | M29 | Х | 371 | 371 | 0 | %100 |
| 22 | M29 | Z | .643 | .643 | 0 | %100 |
| 23 | M32 | Х | 258 | 258 | 0 | %100 |
| 24 | M32 | Z | .447 | .447 | 0 | %100 |
| 25 | M33 | Х | 013 | 013 | 0 | %100 |
| 26 | M33 | Z | .023 | .023 | 0 | %100 |
| 27 | M34 | X | 013 | 013 | 0 | %100 |
| 28 | M34 | Z | .023 | .023 | 0 | %100 |
| 29 | M35 | X | 258 | 258 | 0 | %100 |
| 30 | M35 | Z | .447 | .447 | 0 | %100 |
| 31 | M36 | X | 287 | 287 | 0 | %100 |
| 32 | M36 | Z | .497 | .497 | 0 | %100 |
| 33 | M37 | Х | 287 | 287 | 0 | %100 |
| 34 | M37 | Z | .497 | .497 | 0 | %100 |
| 35 | M38 | Х | 287 | 287 | 0 | %100 |
| 36 | M38 | Z | .497 | .497 | 0 | %100 |
| 37 | M39 | X | 287 | 287 | 0 | %100 |
| 38 | M39 | Z | .497 | .497 | 0 | %100 |
| 39 | M40 | X | 218 | 218 | 0 | %100 |
| 40 | M40 | Z | .378 | .378 | 0 | %100 |
| 41 | M41 | X | 218 | 218 | 0 | %100 |
| 42 | M41 | Z | .378 | .378 | 0 | %100 |
| 43 | M42 | Х | 191 | 191 | 0 | %100 |
| | | | | | | |

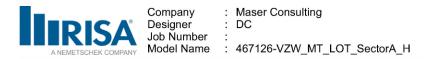


Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 44 | M42 | Z | .331 | .331 | 0 | %100 |
| 45 | M43 | Х | 19 | 19 | 0 | %100 |
| 46 | M43 | Z | .329 | .329 | 0 | %100 |
| 47 | M44 | Х | 114 | 114 | 0 | %100 |
| 48 | M44 | Z | .197 | .197 | 0 | %100 |
| 49 | M45 | Х | 125 | 125 | 0 | %100 |
| 50 | M45 | Z | .217 | .217 | 0 | %100 |
| 51 | M46 | Х | 195 | 195 | 0 | %100 |
| 52 | M46 | Z | .337 | .337 | 0 | %100 |
| 53 | M47 | Х | 195 | 195 | 0 | %100 |
| 54 | M47 | Z | .337 | .337 | 0 | %100 |
| 55 | M48 | Х | 195 | 195 | 0 | %100 |
| 56 | M48 | Z | .337 | .337 | 0 | %100 |
| 57 | M49 | Х | 195 | 195 | 0 | %100 |
| 58 | M49 | Z | .337 | .337 | 0 | %100 |
| 59 | M50 | Х | 116 | 116 | 0 | %100 |
| 60 | M50 | Z | .2 | .2 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 1 | M1 | Х | 148 | 148 | 0 | %100 |
| 2 | M1 | Z | .086 | .086 | 0 | %100 |
| 3 | M2 | Х | 148 | 148 | 0 | %100 |
| 4 | M2 | Z | .086 | .086 | 0 | %100 |
| 5 | MP4A | Х | 491 | 491 | 0 | %100 |
| 6 | MP4A | Z | .283 | .283 | 0 | %100 |
| 7 | MP3A | Х | 491 | 491 | 0 | %100 |
| 8 | MP3A | Z | .283 | .283 | 0 | %100 |
| 9 | MP2A | Х | 491 | 491 | 0 | %100 |
| 10 | MP2A | Z | .283 | .283 | 0 | %100 |
| 11 | MP1A | X | 491 | 491 | 0 | %100 |
| 12 | MP1A | Z | .283 | .283 | 0 | %100 |
| 13 | M23 | X | 098 | 098 | 0 | %100 |
| 14 | M23 | Z | .057 | .057 | 0 | %100 |
| 15 | M24 | X | 009 | 009 | 0 | %100 |
| 16 | M24 | Z | .005 | .005 | 0 | %100 |
| 17 | M25 | X | 009 | 009 | 0 | %100 |
| 18 | M25 | Z | .005 | .005 | 0 | %100 |
| 19 | M26 | Х | 098 | 098 | 0 | %100 |
| 20 | M26 | Z | .057 | .057 | 0 | %100 |
| 21 | M29 | X | 643 | 643 | 0 | %100 |
| 22 | M29 | Z | .371 | .371 | 0 | %100 |
| 23 | M32 | X | 467 | 467 | 0 | %100 |
| 24 | M32 | Z | .27 | .27 | 0 | %100 |
| 25 | M33 | Х | 044 | 044 | 0 | %100 |
| 26 | M33 | Z | .025 | .025 | 0 | %100 |
| 27 | M34 | X | 044 | 044 | 0 | %100 |
| 28 | M34 | Z | .025 | .025 | 0 | %100 |
| 29 | M35 | Χ | 467 | 467 | 0 | %100 |
| 30 | M35 | Z | .27 | .27 | 0 | %100 |
| 31 | M36 | X | 252 | 252 | 0 | %100 |
| 32 | M36 | Z | .145 | .145 | 0 | %100 |
| 33 | M37 | Х | 252 | 252 | 0 | %100 |
| 34 | M37 | Z | .145 | .145 | 0 | %100 |
| 35 | M38 | X | 252 | 252 | 0 | %100 |
| 36 | M38 | Z | .145 | .145 | 0 | %100 |
| | | | | | | |

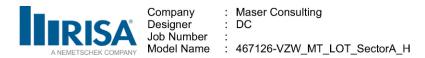


Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 37 | M39 | Х | 252 | 252 | 0 | %100 |
| 38 | M39 | Z | .145 | .145 | 0 | %100 |
| 39 | M40 | Х | 378 | 378 | 0 | %100 |
| 40 | M40 | Z | .218 | .218 | 0 | %100 |
| 41 | M41 | Х | 378 | 378 | 0 | %100 |
| 42 | M41 | Z | .218 | .218 | 0 | %100 |
| 43 | M42 | X | 337 | 337 | 0 | %100 |
| 44 | M42 | Z | .194 | .194 | 0 | %100 |
| 45 | M43 | X | 336 | 336 | 0 | %100 |
| 46 | M43 | Z | .194 | .194 | 0 | %100 |
| 47 | M44 | X | 204 | 204 | 0 | %100 |
| 48 | M44 | Z | .118 | .118 | 0 | %100 |
| 49 | M45 | X | 223 | 223 | 0 | %100 |
| 50 | M45 | Z | .129 | .129 | 0 | %100 |
| 51 | M46 | X | 337 | 337 | 0 | %100 |
| 52 | M46 | Z | .195 | .195 | 0 | %100 |
| 53 | M47 | X | 337 | 337 | 0 | %100 |
| 54 | M47 | Z | .195 | .195 | 0 | %100 |
| 55 | M48 | X | 337 | 337 | 0 | %100 |
| 56 | M48 | Z | .195 | .195 | 0 | %100 |
| 57 | M49 | X | 337 | 337 | 0 | %100 |
| 58 | M49 | Z | .195 | .195 | 0 | %100 |
| 59 | M50 | X | 432 | 432 | 0 | %100 |
| 60 | M50 | Z | .249 | .249 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | 0 | 0 | 0 | %100 |
| 2 | M1 | Z | 0 | 0 | 0 | %100 |
| 3 | M2 | Х | 0 | 0 | 0 | %100 |
| 4 | M2 | Z | 0 | 0 | 0 | %100 |
| 5 | MP4A | Х | 567 | 567 | 0 | %100 |
| 6 | MP4A | Z | 0 | 0 | 0 | %100 |
| 7 | MP3A | Х | 567 | 567 | 0 | %100 |
| 8 | MP3A | Z | 0 | 0 | 0 | %100 |
| 9 | MP2A | Х | 567 | 567 | 0 | %100 |
| 10 | MP2A | Z | 0 | 0 | 0 | %100 |
| 11 | MP1A | Х | 567 | 567 | 0 | %100 |
| 12 | MP1A | Z | 0 | 0 | 0 | %100 |
| 13 | M23 | Х | 064 | 064 | 0 | %100 |
| 14 | M23 | Z | 0 | 0 | 0 | %100 |
| 15 | M24 | Х | 064 | 064 | 0 | %100 |
| 16 | M24 | Z | 0 | 0 | 0 | %100 |
| 17 | M25 | Х | 064 | 064 | 0 | %100 |
| 18 | M25 | Z | 0 | 0 | 0 | %100 |
| 19 | M26 | Х | 064 | 064 | 0 | %100 |
| 20 | M26 | Z | 0 | 0 | 0 | %100 |
| 21 | M29 | Х | 742 | 742 | 0 | %100 |
| 22 | M29 | Z | 0 | 0 | 0 | %100 |
| 23 | M32 | Х | 307 | 307 | 0 | %100 |
| 24 | M32 | Z | 0 | 0 | 0 | %100 |
| 25 | M33 | Х | 307 | 307 | 0 | %100 |
| 26 | M33 | Z | 0 | 0 | 0 | %100 |
| 27 | M34 | Х | 307 | 307 | 0 | %100 |
| 28 | M34 | Z | 0 | 0 | 0 | %100 |
| 29 | M35 | Х | 307 | 307 | 0 | %100 |

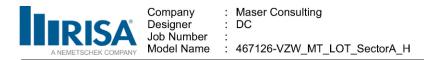


Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 30 | M35 | Z | 0 | 0 | 0 | %100 |
| 31 | M36 | Х | 149 | 149 | 0 | %100 |
| 32 | M36 | Z | 0 | 0 | 0 | %100 |
| 33 | M37 | Х | 149 | 149 | 0 | %100 |
| 34 | M37 | Z | 0 | 0 | 0 | %100 |
| 35 | M38 | Х | 149 | 149 | 0 | %100 |
| 36 | M38 | Z | 0 | 0 | 0 | %100 |
| 37 | M39 | Х | 149 | 149 | 0 | %100 |
| 38 | M39 | Z | 0 | 0 | 0 | %100 |
| 39 | M40 | Х | 437 | 437 | 0 | %100 |
| 40 | M40 | Z | 0 | 0 | 0 | %100 |
| 41 | M41 | Х | 437 | 437 | 0 | %100 |
| 42 | M41 | Z | 0 | 0 | 0 | %100 |
| 43 | M42 | Х | 326 | 326 | 0 | %100 |
| 44 | M42 | Z | 0 | 0 | 0 | %100 |
| 45 | M43 | Х | 316 | 316 | 0 | %100 |
| 46 | M43 | Z | 0 | 0 | 0 | %100 |
| 47 | M44 | Х | 316 | 316 | 0 | %100 |
| 48 | M44 | Z | 0 | 0 | 0 | %100 |
| 49 | M45 | Х | 326 | 326 | 0 | %100 |
| 50 | M45 | Z | 0 | 0 | 0 | %100 |
| 51 | M46 | Х | 389 | 389 | 0 | %100 |
| 52 | M46 | Z | 0 | 0 | 0 | %100 |
| 53 | M47 | Х | 389 | 389 | 0 | %100 |
| 54 | M47 | Z | 0 | 0 | 0 | %100 |
| 55 | M48 | Х | 389 | 389 | 0 | %100 |
| 56 | M48 | Z | 0 | 0 | 0 | %100 |
| 57 | M49 | Х | 389 | 389 | 0 | %100 |
| 58 | M49 | Z | 0 | 0 | 0 | %100 |
| 59 | M50 | Х | 55 | 55 | 0 | %100 |
| 60 | M50 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | 148 | 148 | 0 | %100 |
| 2 | M1 | Z | 086 | 086 | 0 | %100 |
| 3 | M2 | X | 148 | 148 | 0 | %100 |
| 4 | M2 | Z | 086 | 086 | 0 | %100 |
| 5 | MP4A | Х | 491 | 491 | 0 | %100 |
| 6 | MP4A | Z | 283 | 283 | 0 | %100 |
| 7 | MP3A | Х | 491 | 491 | 0 | %100 |
| 8 | MP3A | Z | 283 | 283 | 0 | %100 |
| 9 | MP2A | Х | 491 | 491 | 0 | %100 |
| 10 | MP2A | Z | 283 | 283 | 0 | %100 |
| 11 | MP1A | Х | 491 | 491 | 0 | %100 |
| 12 | MP1A | Z | 283 | 283 | 0 | %100 |
| 13 | M23 | Х | 009 | 009 | 0 | %100 |
| 14 | M23 | Z | 005 | 005 | 0 | %100 |
| 15 | M24 | Х | 098 | 098 | 0 | %100 |
| 16 | M24 | Z | 057 | 057 | 0 | %100 |
| 17 | M25 | Х | 098 | 098 | 0 | %100 |
| 18 | M25 | Z | 057 | 057 | 0 | %100 |
| 19 | M26 | Х | 009 | 009 | 0 | %100 |
| 20 | M26 | Z | 005 | 005 | 0 | %100 |
| 21 | M29 | Х | 643 | 643 | 0 | %100 |
| 22 | M29 | Z | 371 | 371 | 0 | %100 |

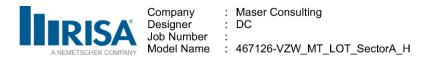


Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

| | Member Label | Direction | Start Magnitude[lb/ft, | .End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|------------------------|------------------------|--------------------|
| 23 | M32 | Х | 044 | 044 | 0 | %100 |
| 24 | M32 | Z | 025 | 025 | 0 | %100 |
| 25 | M33 | X | 467 | 467 | 0 | %100 |
| 26 | M33 | Z | 27 | 27 | 0 | %100 |
| 27 | M34 | Х | 467 | 467 | 0 | %100 |
| 28 | M34 | Z | 27 | 27 | 0 | %100 |
| 29 | M35 | Х | 044 | 044 | 0 | %100 |
| 30 | M35 | Z | 025 | 025 | 0 | %100 |
| 31 | M36 | Χ | 252 | 252 | 0 | %100 |
| 32 | M36 | Z | 145 | 145 | 0 | %100 |
| 33 | M37 | X | 252 | 252 | 0 | %100 |
| 34 | M37 | Z | 145 | 145 | 0 | %100 |
| 35 | M38 | X | 252 | 252 | 0 | %100 |
| 36 | M38 | Z | 145 | 145 | 0 | %100 |
| 37 | M39 | Х | 252 | 252 | 0 | %100 |
| 38 | M39 | Z | 145 | 145 | 0 | %100 |
| 39 | M40 | X | 378 | 378 | 0 | %100 |
| 40 | M40 | Z | 218 | 218 | 0 | %100 |
| 41 | M41 | X | 378 | 378 | 0 | %100 |
| 42 | M41 | Z | 218 | 218 | 0 | %100 |
| 43 | M42 | X | 223 | 223 | 0 | %100 |
| 44 | M42 | Z | 129 | 129 | 0 | %100 |
| 45 | M43 | X | 204 | 204 | 0 | %100 |
| 46 | M43 | Z | 118 | 118 | 0 | %100 |
| 47 | M44 | X | 336 | 336 | 0 | %100 |
| 48 | M44 | Z | 194 | 194 | 0 | %100 |
| 49 | M45 | X | 337 | 337 | 0 | %100 |
| 50 | M45 | Z | 194 | 194 | 0 | %100 |
| 51 | M46 | X | 337 | 337 | 0 | %100 |
| 52 | M46 | Z | 195 | 195 | 0 | %100 |
| 53 | M47 | X | 337 | 337 | 0 | %100 |
| 54 | M47 | Z | 195 | 195 | 0 | %100 |
| 55 | M48 | Χ | 337 | 337 | 0 | %100 |
| 56 | M48 | Z | 195 | 195 | 0 | %100 |
| 57 | M49 | Χ | 337 | 337 | 0 | %100 |
| 58 | M49 | Z | 195 | 195 | 0 | %100 |
| 59 | M50 | X | 291 | 291 | 0 | %100 |
| 60 | M50 | Z | 168 | 168 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft, | End Magnitude[lb/ft,F | . Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------|-----------------------|------------------------|--------------------|
| 1 | M1 | Х | 257 | 257 | 0 | %100 |
| 2 | M1 | Z | 445 | 445 | 0 | %100 |
| 3 | M2 | Х | 257 | 257 | 0 | %100 |
| 4 | M2 | Z | 445 | 445 | 0 | %100 |
| 5 | MP4A | Х | 283 | 283 | 0 | %100 |
| 6 | MP4A | Z | 491 | 491 | 0 | %100 |
| 7 | MP3A | Х | 283 | 283 | 0 | %100 |
| 8 | MP3A | Z | 491 | 491 | 0 | %100 |
| 9 | MP2A | Х | 283 | 283 | 0 | %100 |
| 10 | MP2A | Z | 491 | 491 | 0 | %100 |
| 11 | MP1A | Х | 283 | 283 | 0 | %100 |
| 12 | MP1A | Z | 491 | 491 | 0 | %100 |
| 13 | M23 | Х | 003 | 003 | 0 | %100 |
| 14 | M23 | Z | 005 | 005 | 0 | %100 |
| 15 | M24 | Х | 055 | 055 | 0 | %100 |



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

| 16M24Z0950950%1017M25X0550%1018M25Z.0950.095019M26X0030030%1020M26Z0050.0050%1021M29X3713710%61022M29Z6436430%1023M32X0130130%1024M32Z023.0230%1025M33X2582580%1026M33Z4474470%1027M34X2582580%1028M34Z0130130%1030M35X0130130%1031M36X2872870%1033M37X2872870%1034M37Z4974970%1035M38X2872870%1036M38Z4974970%1037M39X2872870%1036M38Z4974970%1037M39X2872870%1038M39Z <td< th=""><th>on[ft.%]</th></td<> | on[ft.%] |
|---|----------|
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 0 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 0 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 0 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 0 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 0 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 0 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| 38 M39 Z 497 497 0 %10 39 M40 X 218 218 0 %10 40 M40 Z 378 378 0 %10 41 M41 X 218 218 0 %10 42 M41 Z 378 378 0 %10 43 M42 X 218 217 0 %10 44 M42 Z 125 125 0 %10 45 M43 X 114 114 0 %10 46 M43 Z 197 197 0 %10 47 M44 X 19 19 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 39 M40 X 218 218 0 %10 40 M40 Z 378 378 0 %10 41 M41 X 218 218 0 %10 42 M41 Z 378 218 0 %10 43 M42 X 125 125 0 %10 44 M42 Z 217 217 0 %10 45 M43 X 114 114 0 %10 46 M43 Z 197 197 0 %10 47 M44 X 19 19 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 40 M40 Z 378 378 0 %10 41 M41 X 218 218 0 %10 42 M41 Z 378 218 0 %10 43 M42 X 125 125 0 %10 44 M42 Z 217 217 0 %10 45 M43 X 114 114 0 %10 46 M43 Z 197 197 0 %10 47 M44 X 19 19 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 41 M41 X 218 218 0 %10 42 M41 Z 378 378 0 %10 43 M42 X 125 125 0 %10 44 M42 Z 217 217 0 %10 45 M43 X 114 114 0 %10 46 M43 Z 197 197 0 %10 47 M44 X 19 19 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 42 M41 Z 378 378 0 %10 43 M42 X 125 125 0 %10 44 M42 Z 217 217 0 %10 45 M43 X 114 114 0 %10 46 M43 Z 197 0.197 0 %10 47 M44 X 19 19 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 43 M42 X 125 125 0 %10 44 M42 Z 217 217 0 %10 45 M43 X 114 114 0 %10 46 M43 Z 197 197 0 %10 47 M44 X 19 19 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 44 M42 Z 217 217 0 %10 45 M43 X 114 114 0 %10 46 M43 Z 197 197 0 %10 47 M44 X 19 197 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 45 M43 X 114 114 0 %10 46 M43 Z 197 197 0 %10 47 M44 X 19 197 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 0 %10 | |
| 46 M43 Z 197 197 0 %10 47 M44 X 19 19 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 0 %10 | |
| 47 M44 X 19 19 0 %10 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 48 M44 Z 329 329 0 %10 49 M45 X 191 191 0 %10 | |
| 49 M45 X191191 0 %10 | |
| | |
| 50 M45 Z331331 0 %10 | |
| 51 M46 X195195 0 %10 | |
| 52 M46 Z337337 0 %10 | |
| 53 M47 X195195 0 %10 | |
| 54 M47 Z337337 0 %10 | |
| 55 M48 X195195 0 %10 | |
| 56 M48 Z337337 0 %10 | |
| 57 M49 X195195 0 %10 | |
| 58 M49 Z337337 0 %10 | |
| 59 M50 X034034 0 %10 | |
| 60 M50 Z059059 0 %10 | |

Member Area Loads

| Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---------|---------|---------|-------------------|-----------|--------------|----------------|
| | | N | o Data to Print . | | | |

Envelope Joint Reactions

| | Joint | | X [lb] | LC | Y [lb] | LC | Z [lb] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|---|---------|-----|-----------|----|----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 1 | N51 | max | 916.459 | 10 | 1167.495 | 21 | 49.757 | 2 | 1.076 | 8 | .784 | 10 | .675 | 10 |
| 2 | | min | -498.643 | 28 | 492.081 | 2 | -2771.027 | 20 | 542 | 2 | 303 | 4 | 24 | 4 |
| 3 | N52 | max | 488.347 | 34 | 1092.352 | 14 | 2840.839 | 14 | 1.238 | 2 | .245 | 34 | .595 | 40 |
| 4 | | min | -807.396 | 50 | 465.389 | 8 | -300.452 | 8 | 654 | 8 | 734 | 40 | 161 | 10 |
| 5 | N73 | max | 310.752 | 10 | 66.274 | 15 | 1427.937 | 11 | 0 | 51 | 0 | 51 | 0 | 51 |
| 6 | | min | -311.493 | 4 | 27.76 | 9 | -1427.772 | 5 | 0 | 1 | 0 | 1 | 0 | 1 |
| 7 | Totals: | max | 1531.122 | 10 | 2309.036 | 23 | 2099.394 | 1 | | | | | | |
| 8 | | min | -1531.123 | 4 | 1051.084 | 5 | -2099.393 | 7 | | | | | | |

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

| | Member | Shape | Code Check | Loc[ft] | LC | SheaLoc | Dir | LC | phi*Pncphi*Pn | phi*Mn y | . phi*Mn z-z [. | Eqn |
|----|--------|----------|------------|---------|----|------------|-----|----|-----------------|----------|-----------------|---------|
| 1 | M1 | PIPE_2.5 | .163 | 3.5 | 8 | .072 1.75 | | 20 | 15797.3 50715 | 3.596 | 3.596 | 2H1-1b |
| 2 | M2 | PIPE_2.5 | .172 | 3.5 | 8 | .086 10.25 | | 29 | 15797.3 50715 | 3.596 | 3.596 | 2H1-1b |
| 3 | MP4A | PIPE_2.0 | .112 | 4.375 | 50 | .030 4.375 | | 11 | 23808.54 32130 | 1.872 | 1.872 | 1H1-1b |
| 4 | MP3A | PIPE_2.0 | .174 | 1.042 | 7 | .097 1.042 | | 5 | 23808.54 32130 | 1.872 | 1.872 | 1H1-1b |
| 5 | MP2A | PIPE_2.0 | .100 | 4.375 | 41 | .047 4.375 | | 3 | 20866.732130 | 1.872 | 1.872 | 2H1-1b |
| 6 | MP1A | PIPE_2.0 | .052 | 1.094 | 18 | .036 4.375 | | 9 | 23808.54 32130 | 1.872 | 1.872 | 1H1-1b |
| 7 | M23 | PL1/2X3 | .264 | 0 | 30 | .055 .22 | У | 11 | 47751.05 48600 | .506 | 3.038 | 1H1-1b |
| 8 | M24 | PL1/2X3 | .310 | 0 | 21 | .081 .22 | У | 41 | 47751.05 48600 | .506 | 3.038 | 1H1-1b |
| 9 | M25 | PL1/2X3 | .290 | 0 | 13 | .073 .22 | ý | 45 | 47751.05 48600 | .506 | 3.038 | 1H1-1b |
| 10 | M26 | PL1/2X3 | .250 | 0 | 27 | .052 0 | У | 11 | 47751.05 48600 | .506 | 3.038 | 1H1-1b |
| 11 | M29 | PIPE_4.0 | .148 | 5.5 | 2 | .159 5.5 | | 14 | 83097.993240 | 10.631 | 10.631 | 3H1-1b |
| 12 | M32 | PIPE_2.0 | .210 | 5.682 | 30 | .065 6.061 | | 33 | 20683.13 32130 | 1.872 | 1.872 | 2H1-1b |
| 13 | M33 | PIPE_2.0 | .246 | 5.682 | 21 | .101 .379 | | 11 | 20683.13 32130 | 1.872 | 1.872 | 2H1-1b |
| 14 | M34 | PIPE_2.0 | .250 | 5.619 | 14 | .197 .379 | | 5 | 20683.13 32130 | 1.872 | 1.872 | 2H1-1b |
| 15 | M35 | PIPE_2.0 | .217 | 5.619 | 27 | .093 .379 | | 27 | 20683.13 32130 | 1.872 | 1.872 | 2H1-1b |
| 16 | M36 | PL1/2X3 | .233 | 0 | 5 | .034 0 | У | 5 | 45624.248600 | .506 | 3.038 | 1H1-1b |
| 17 | M37 | PL1/2X3 | .026 | 0 | 42 | .016 0 | ý | 11 | 45624.248600 | .506 | 3.038 | 1H1-1b |
| 18 | M38 | PL1/2X3 | .127 | .417 | 27 | .043 0 | У | 27 | 45624.248600 | .506 | 3.038 | 1H1-1b |
| 19 | M39 | PL1/2X3 | .529 | .417 | 5 | .064 .417 | ý | 3 | 45624.248600 | .506 | 3.038 | 1H1-1b |
| 20 | M40 | PIPE_2.0 | .398 | .521 | 5 | .121 .495 | | 11 | 29810.232130 | 1.872 | 1.872 | 1H1-1b |
| 21 | M41 | PIPE_2.0 | .012 | 0 | 30 | .005 0 | | 5 | 29810.232130 | 1.872 | 1.872 | 2H1-1b |
| 22 | M42 | 1.5x0.06 | .209 | 2.081 | 26 | .020 0 | | 9 | 5120.784 8550.1 | .327 | .327 | 1H1-1a |
| 23 | M43 | 1.5x0.06 | .078 | 1.958 | 14 | .021 3.917 | | 8 | 5531.923 8550.1 | .327 | .327 | 1H1-1b |
| 24 | M44 | 1.5x0.06 | .107 | 1.958 | 24 | .034 3.917 | | 7 | 5531.923 8550.1 | .327 | .327 | 1H1-1b |
| 25 | M45 | 1.5x0.06 | .260 | 2.081 | 24 | .026 0 | | 12 | 5120.784 8550.1 | .327 | .327 | 1H1-1a |
| 26 | M46 | 1.5x0.06 | .210 | 1.806 | 22 | .018 0 | | 11 | 6237.37 8550.1 | .327 | .327 | 1H1-1a |
| 27 | M47 | 1.5x0.06 | .122 | 3.333 | 24 | .026 0 | | 11 | 6237.37 8550.1 | .327 | .327 | 1H1-1b* |
| 28 | M48 | 1.5x0.06 | .107 | 3.333 | 27 | .018 0 | | 11 | 6237.37 8550.1 | .327 | .327 | 1H1-1b* |
| 29 | M49 | 1.5x0.06 | .179 | 3.333 | 29 | .016 0 | | 11 | 6237.37 8550.1 | .327 | .327 | 1H1-1b* |
| 30 | M50 | PIPE_2.0 | .628 | 9.394 | 10 | .011 0 | | 22 | 3023.78 32130 | 1.872 | 1.872 | 2H1-1a |



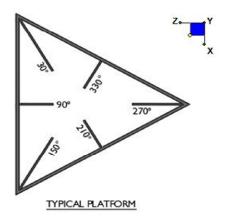
| Client: | Verizon | Date: 7/2/202 | 1 |
|-------------|----------------|---------------|---|
| Site Name: | Colchester CT | | |
| Project No. | 21777749A | | |
| Title: | Mount Analysis | Page: 1 | |
| | | | |

Version 3.1

I. Mount-to-Tower Connection Check

<u>RISA Model Data</u>

| Nodes (labeled per RISA) | Orientation (per graphic of typical platform) |
|-----------------------------|--|
| N51 | 120 |
| N52 | 120 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



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):

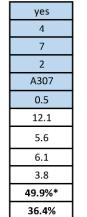
Required Shear Strength (kips):

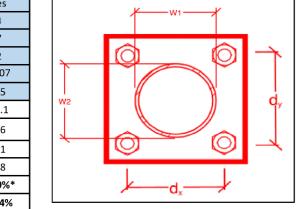
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:





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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

<u>**Purpose**</u> – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

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

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.
- 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 *https://pmi.vzwsmart.com* as depicted on the drawings

Photo Requirements:

- Base and "During Installation Photos"
 - o 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
 - o "During Installation Photos if provided must be placed only in this folder
- <u>Photos taken at ground level</u>
 - Overall tower structure before and after installation of the equipment modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- 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 safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- □ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- □ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

| Certifying Individual: | Company | |
|------------------------|-----------|--|
| | Name | |
| | Signature | |

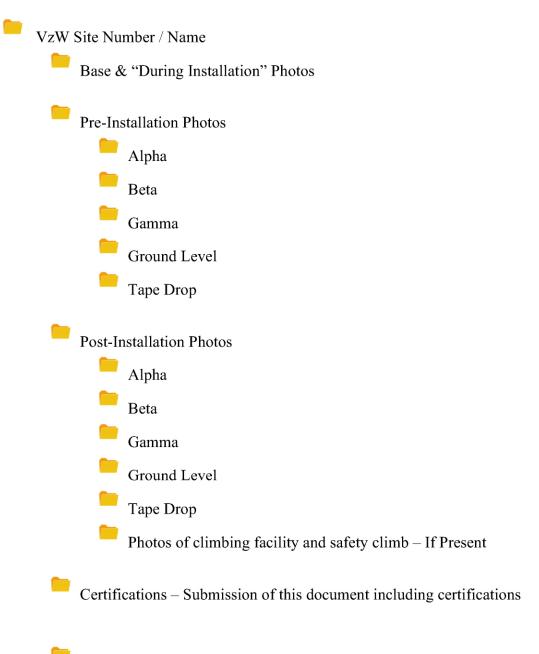
<u>Special Instructions / Validation as required from the MA or any other information the contractor</u> <u>deems necessary to share that was identified:</u>

Issue:

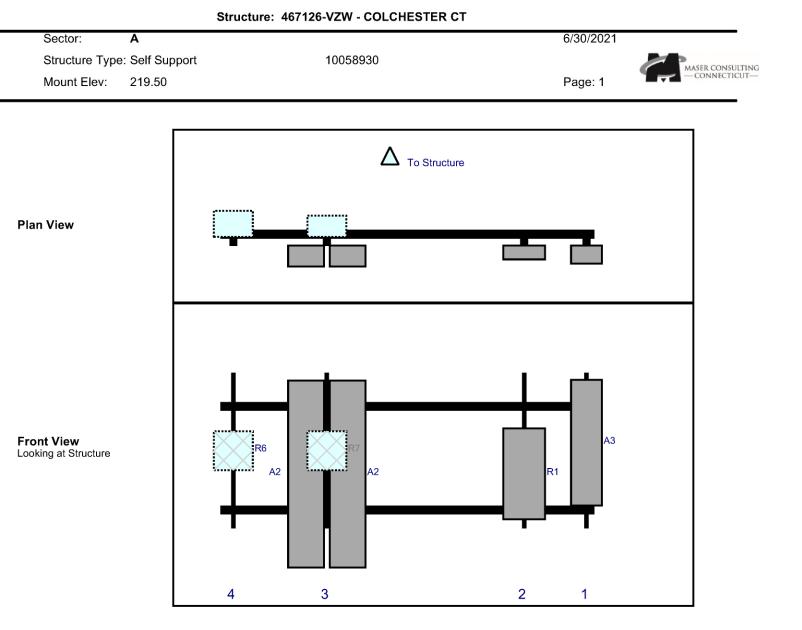
1. Contractor shall reinforce the Channel connection connecting the Mast pipe and the tower leg with Pipe Mount Reinforcement Kit (Site Pro 1 Part #: R5-REINF or EOR approved equivalent).

Response:

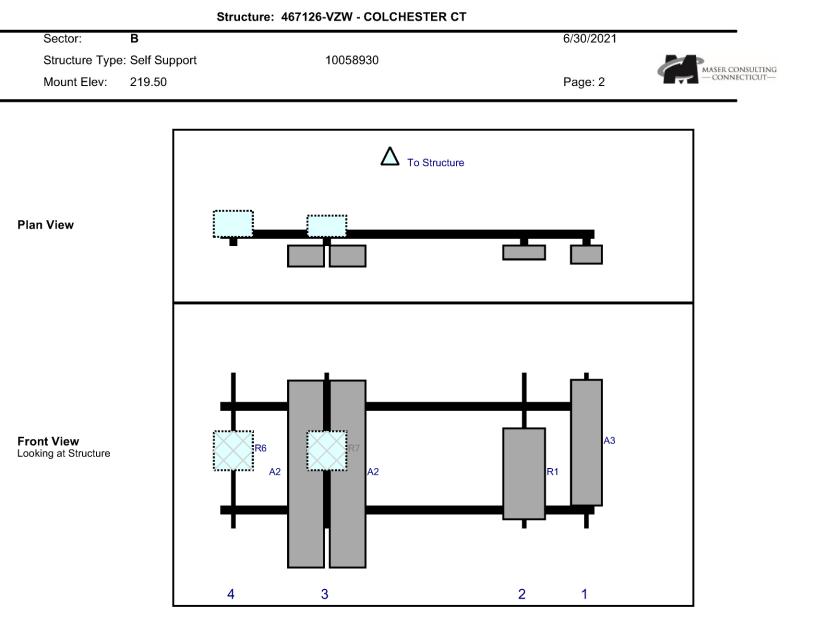
<u>Schedule A – Photo & Document File Structure</u>



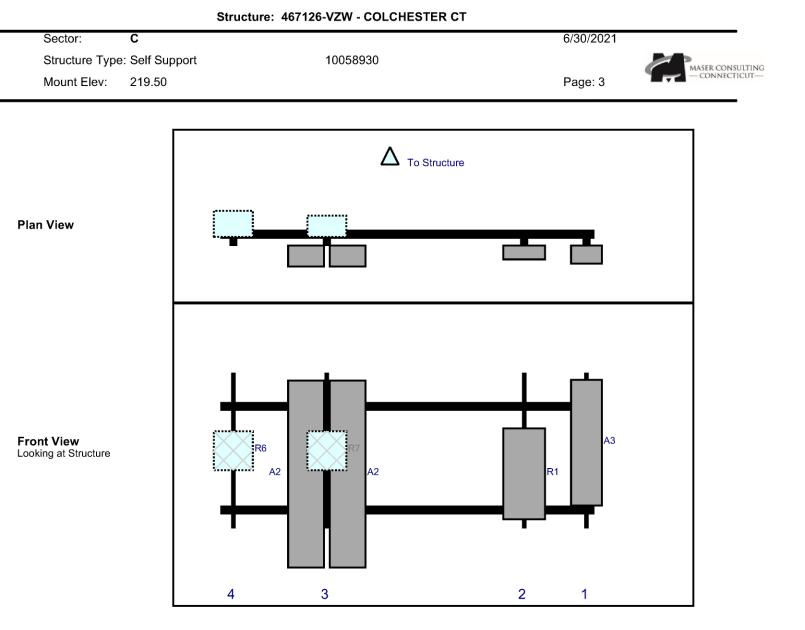
Specific Required Additional Photos



| | | Height | Width | H Dist | Pipe | Pipe | Ant | C. Ant | Ant | | |
|------|-------------------|--------|-------|--------|------|-------|--------|--------|-------|----------|------------|
| Ref# | Model | (in) | (in) | Frm L. | # | Pos V | Pos | Frm T. | H Off | Status | Validation |
| A3 | LNX-6512DS-VTM | 48.5 | 11.9 | 141 | 1 | а | Front | 27 | 0 | Retained | 04/22/2021 |
| R1 | MT6407-77A | 35.1 | 16.1 | 117 | 2 | а | Front | 39 | 0 | Added | |
| A2 | JAHH-65B-R3B | 72 | 13.8 | 41 | 3 | а | Front | 39 | -8 | Retained | 04/22/2021 |
| A2 | JAHH-65B-R3B | 72 | 13.8 | 41 | 3 | b | Front | 39 | 8 | Retained | 04/22/2021 |
| R7 | B5/B13 RHH-BR04C | 15 | 15 | 41 | 3 | а | Behind | 30 | 0 | Retained | 04/22/2021 |
| R6 | B2/B66A RRH-BR049 | 15 | 15 | 5 | 4 | а | Behind | 30 | 0 | Retained | 04/22/2021 |

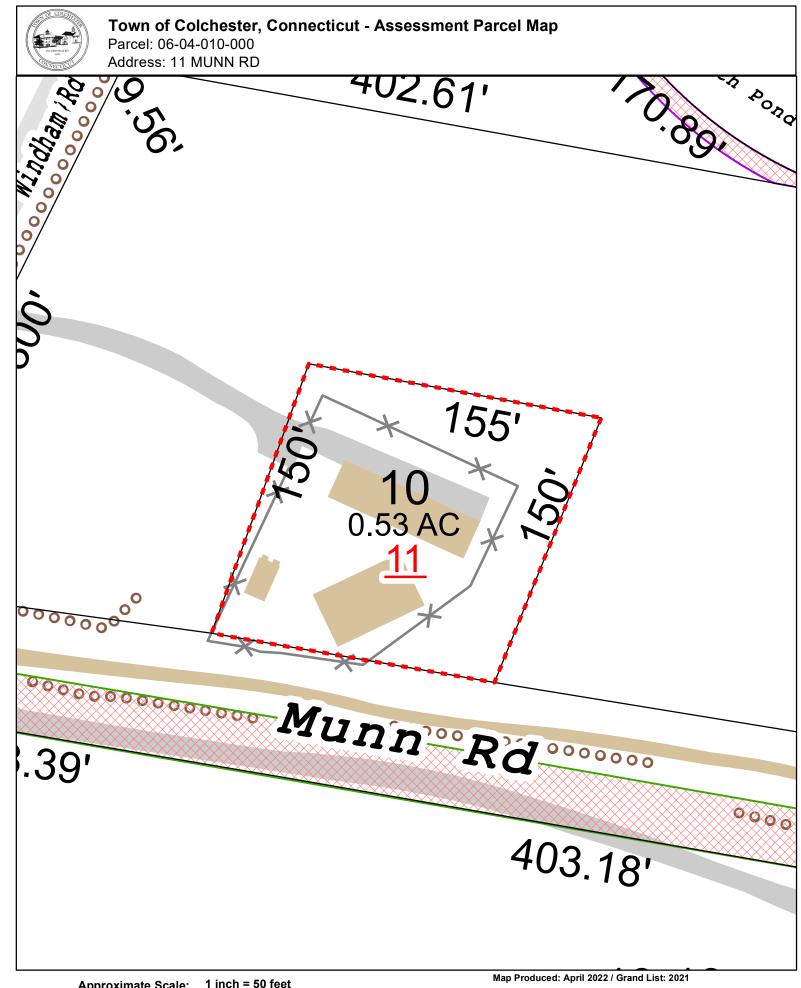


| | | Height | Width | H Dist | Pipe | Pipe | Ant | C. Ant | Ant | | |
|------|-------------------|--------|-------|--------|------|-------|--------|--------|-------|----------|------------|
| Ref# | Model | (in) | (in) | Frm L. | # | Pos V | Pos | Frm T. | H Off | Status | Validation |
| A3 | LNX-6512DS-VTM | 48.5 | 11.9 | 141 | 1 | а | Front | 27 | 0 | Retained | 04/22/2021 |
| R1 | MT6407-77A | 35.1 | 16.1 | 117 | 2 | а | Front | 39 | 0 | Added | |
| A2 | JAHH-65B-R3B | 72 | 13.8 | 41 | 3 | а | Front | 39 | -8 | Retained | 04/22/2021 |
| A2 | JAHH-65B-R3B | 72 | 13.8 | 41 | 3 | b | Front | 39 | 8 | Retained | 04/22/2021 |
| R7 | B5/B13 RHH-BR04C | 15 | 15 | 41 | 3 | а | Behind | 30 | 0 | Retained | 04/22/2021 |
| R6 | B2/B66A RRH-BR049 | 15 | 15 | 5 | 4 | а | Behind | 30 | 0 | Retained | 04/22/2021 |



| | | Height | Width | H Dist | Pipe | Pipe | Ant | C. Ant | Ant | | |
|------|-------------------|--------|-------|--------|------|-------|--------|--------|-------|----------|------------|
| Ref# | Model | (in) | (in) | Frm L. | # | Pos V | Pos | Frm T. | H Off | Status | Validation |
| A3 | LNX-6512DS-VTM | 48.5 | 11.9 | 141 | 1 | а | Front | 27 | 0 | Retained | 04/22/2021 |
| R1 | MT6407-77A | 35.1 | 16.1 | 117 | 2 | а | Front | 39 | 0 | Added | |
| A2 | JAHH-65B-R3B | 72 | 13.8 | 41 | 3 | а | Front | 39 | -8 | Retained | 04/22/2021 |
| A2 | JAHH-65B-R3B | 72 | 13.8 | 41 | 3 | b | Front | 39 | 8 | Retained | 04/22/2021 |
| R7 | B5/B13 RHH-BR04C | 15 | 15 | 41 | 3 | а | Behind | 30 | 0 | Retained | 04/22/2021 |
| R6 | B2/B66A RRH-BR049 | 15 | 15 | 5 | 4 | а | Behind | 30 | 0 | Retained | 04/22/2021 |

ATTACHMENT 5



Approximate Scale: 100 25 50 75 Feet

0

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

NCORPORT INCOMPANY

Town of Colchester, CT

Property Report Map Block Lot 06-0

Lot 06-04/010-000

PID 5602

Building # 1 Section # 1 Account

ant **C0515000**

Property Information

| Property Location | 11 MUNN R | D | | |
|-------------------|------------|---------|--------|-------|
| Owner | CONNECTI | CUT STA | TE OF | |
| Co-Owner | na | | | |
| Mailing Address | 165 CAPITO | DL AVE | | |
| | HARTFOR |) | СТ | 06106 |
| Land Use | 901V | State M | /DL-00 | |
| Land Class | E | | | |
| Zoning Code | R60 | | | |
| Census Tract | | | | |

| Neighborhood | | |
|------------------|---------|---------|
| Acreage | 0.53 | |
| Utilities | UNKNOWN | |
| Lot Setting/Desc | UNKNOWN | UNKNOWN |
| Additional Info | | |
| | | |



Sketch



Primary Construction Details

| Year Built | 0 |
|--------------------|---------|
| Stories | |
| Building Style | UNKNOWN |
| Building Use | Vacant |
| Building Condition | |
| Interior Floors 1 | |
| Interior Floors 2 | NA |
| Total Rooms | 0 |
| Basement Garages | |
| Occupancy | |
| Building Grade | |
| | |
| | |

| Bedrooms | 0 |
|----------------|---|
| Full Bathrooms | 0 |
| Half Bathrooms | 0 |
| Extra Fixtures | 0 |
| Bath Style | |
| Kitchen Style | |
| Roof Style | |
| Roof Cover | |
| АС Туре | |
| Fireplaces | 0 |
| | |
| | |
| | |

| Exterior Walls | |
|------------------|----|
| Exterior Walls 2 | NA |
| Interior Walls | |
| Interior Walls 2 | NA |
| Heating Type | |
| Heating Fuel | |
| Sq. Ft. Basement | |
| Fin BSMT Quality | |
| Extra Kitchens | |
| | |
| | |
| | |
| | 1 |

| Proper | ty Report | Map Block Lo | t06-04/010-000 | PID 5602 | Building # | Section # 1 Acc | count C0515000 |
|---------------|-----------|---------------------|-----------------------|--------------|------------|--------------------|---------------------|
| Valuation Sum | mary (As | ssessed value = 70% | o of Appraised Value) | Sub Areas | | | |
| Item | Appraised | | Assessed | Subarea Type | | Gross Area (sq ft) | Living Area (sq ft) |
| Buildings | 0 | | 0 | | | | |
| Extras | 0 | | 0 | | | | |
| Improvements | | | | | | | |
| Outbuildings | 0 | | 0 | | | | |
| Land | 62800 | | 44000 | | | | |
| Fotal | 62800 | | 44000 | | | | |
| | | | | | | | |
| | | | | Total Area | | | 0 |

CONNECTICUT STATE OF

0082/0250

0

1/7/2022

ATTACHMENT 6

| Kenneth C. Baldwin, Esq. | TOTAL NO. of Pieces Listed by Sender Of Pieces Received at Post Office™ | Postmark with Date of Receipt. neopost ³⁴ 07/19/2022 US POSTAGE \$003.090 ZIP 06103 041L12203937 | | | | |
|--|--|--|-----|------------------|----------------|--|
| Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103 | eusn (| | | | | |
| | Postmaster, per (name of receiving employee) | | | | | |
| USPS® Tracki ng Number | Address | | | | | |
| Firm-specific Identifier | (Name, Street, City, State, and ZIP Code™) | Postage | Fee | Special Handling | Parcel Airlift | |
| | Andreas Bisbikos, First Selectman | | | | | |
| | Town of Colchester | - | | | | |
| | 127 Norwich Avenue | - 1 | | | | |
| | Colchester, CT 06415 | | | | | |
| | Ariel Lago, Zoning Enforcement Officer | | | | | |
| | Town of Colchester | 4 | | | | |
| | 127 Norwich Avenue | | | | | |
| | Colchester, CT 06415 | | | | | |
| | State of Connecticut | | | | | |
| | Attn: Brian Benito Department of Emergency Services and Public Protection 1111 Country Club Road Middletown, CT 06457 | - | | | | |
| | Middelown, CT (045) | | | | | |
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PS Form **3665,** January 2017 (Page _____ of ____) PSN 7530-17-000-5549

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