



**Crown Castle**  
3 Corporate Park Drive, Suite 101  
Clifton Park, NY 12065

June 1, 2020

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

**RE: Notice of Exempt Modification for AT&T - 842873**  
**30 Oliver Terrace, Shelton, CT 06484**  
**Latitude: 41° 17' 38.21" / Longitude: -73° 6' 25.83"**

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 129-foot mount on the existing 140-foot Monopole Tower, located at 30 Oliver Terrace, Shelton, CT. The tower is owned by Crown Castle and the property is owned by Brennan Realty LLC. AT&T now intends to add three (3) new antennas to their existing configuration. The new antennas will be installed at the 129-ft level of the tower.

The facility was approved by the Connecticut Siting Council in Petition 608 on March 25, 2003. Said approval given without conditions.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §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 Mark Lauretti, Mayor for the City of Shelton, Alexander Rosetti, Planning & Zoning Administrator, Crown Castle as the tower owner, and Brennan Realty LLC, the property owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

Melanie A. Bachman

Page 2

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,

Anne Marie Zsamba  
Network Real Estate Specialist  
3 Corporate Park Drive, Suite 101  
Clifton Park, NY 12065  
(201) 236-9224  
AnneMarie.Zsamba@crowncastle.com

Attachments

cc:

The Honorable Mark A. Lauretti, Mayor (*via email only to shelton01@cityofshelton.org*)  
City Hall, Room 202  
54 Hill Street  
Shelton CT, 06484  
203-924-1555

Alexander Rosetti, Planning & Zoning Administrator (*via email only to a.rossetti@cityofshelton.org*)  
City Hall, Third Floor  
54 Hill Street  
Shelton CT, 06484  
203-924-1555 ext. 1510

Brennan Realty LLC  
70 Platt Road  
PO Box 788  
Shelton, CT 06484

Crown Castle, Tower Owner

**From:** [Zsamba, Anne Marie](#)  
**To:** ["shelton01@cityofshelton.org"](mailto:shelton01@cityofshelton.org)  
**Subject:** Notice of Exempt Modification - 30 Oliver Terrace  
**Date:** Monday, June 1, 2020 12:06:00 PM  
**Attachments:** [Notice of Exempt Mod AT&T EM 30 Oliver Terrace Shelton 842873.pdf](#)

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Dear Mayor Lauretti:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council, today June 1, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,  
Anne Marie Zsamba

**ANNE MARIE ZSAMBA**  
Site Acquisition Specialist  
T: (201) 236-9224  
M: (518) 350-3639  
F: (724) 416-6112

**CROWN CASTLE**  
3 Corporate Park Drive, Suite 101  
Clifton Park, NY 12065  
[CrownCastle.com](http://CrownCastle.com)

**From:** [Zsamba, Anne Marie](#)  
**To:** [a.rossetti@cityofshelton.org](mailto:a.rossetti@cityofshelton.org)  
**Subject:** Notice of Exempt Modification - 30 Oliver Terrace  
**Date:** Monday, June 1, 2020 12:07:00 PM  
**Attachments:** [Notice of Exempt Mod AT&T EM 30 Oliver Terrace Shelton 842873.pdf](#)

---

Dear Ms. Rossetti:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council, today June 1, 2020.

In light of the present circumstances with Covid-19, The Council has advised that electronic notification of this filing is acceptable. If you could kindly confirm receipt. Thank you.

Best,  
Anne Marie Zsamba

**ANNE MARIE ZSAMBA**  
Site Acquisition Specialist  
T: (201) 236-9224  
M: (518) 350-3639  
F: (724) 416-6112

**CROWN CASTLE**  
3 Corporate Park Drive, Suite 101  
Clifton Park, NY 12065  
[CrownCastle.com](http://CrownCastle.com)

ORIGIN ID: SCHA (518) 350-3639  
ANNE MARIE ZSAMBRA  
CROWN CASTLE  
21 HEATHER DRIVE  
GANSEVOORT, NY 12831  
UNITED STATES US

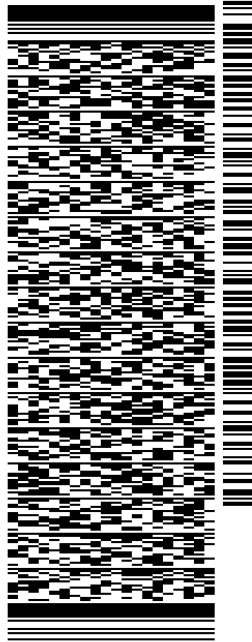
SHIP DATE: 22MAY20  
ACTWGT: 2.00 LB  
CAD: 104924194IN/ET4220

BILL SENDER

TO **MELANIE BACHMAN**  
**CONNECTICUT SITING COUNCIL**  
**10 FRANKLIN SQUARE**

**NEW BRITAIN CT 06051**

(860) 827-2951 REF: 1765 6880  
INV: DEPT:  
PO:

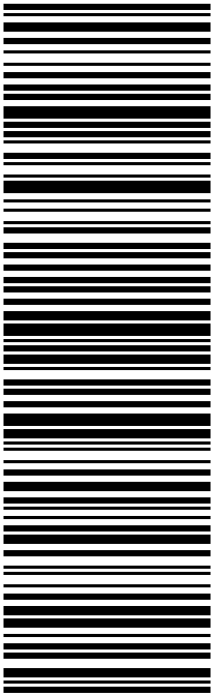


J201120042401uv

56BJ3/2925/FE4A

TRK# 7705 2813 4014 TUE - 26 MAY 3:00P  
0201 STANDARD OVERNIGHT

**SEBDLA** 06051  
CT-US BDL



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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID: SCHA (518) 350-3639  
ANNE MARIE ZSAMBA  
CROWN CASTLE  
21 HEATHER DRIVE  
GANSEVOORT, NY 12831  
UNITED STATES US

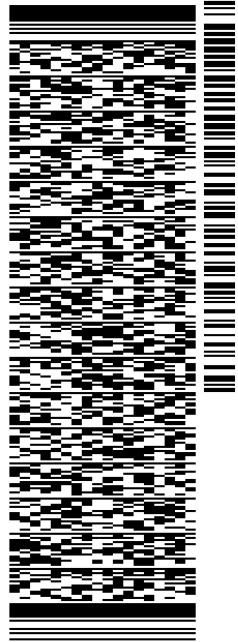
SHIP DATE: 22MAY20  
ACTWGT: 1.00 LB  
CAD: 104924194/INET4220  
BILL SENDER

TO **BRENNAN REALTY LLC**

**70 PLATT ROAD**

**SHELLTON CT 06484**

(518) 373-3543 REF: 1734.7890  
INV/ PO: DEPT:



J201120042401uv

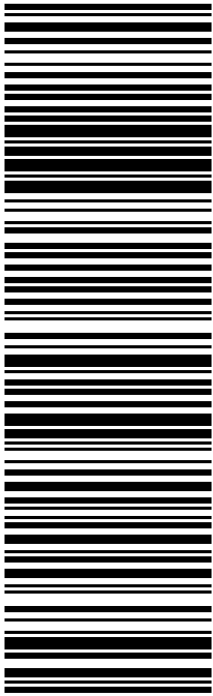
56BJ32925/FE4A

TRK# 7705 2812 1264  
0201

TUE - 26 MAY 10:30A  
PRIORITY OVERNIGHT

**SECIVA**

06484  
CT-US BDL



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# Exhibit A

## **Original Facility Approval**

Petition No. 608  
AT&T Wireless PCS, LLC  
Shelton, Connecticut  
Staff Report  
March 25, 2003

On February 4, 2003, Connecticut Siting Council (Council) member Gerald Heffernan and Robert Mercier of Council staff met with AT&T Wireless PCS, Inc. (AT&T) representative Christopher Fisher at 70 Platt Road in Shelton to review this petition. AT&T proposes to replace an existing 75-foot monopole with a 100-foot monopole 275 feet west of its existing location. AT&T is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for the tower replacement and relocation.

The existing monopole is owned by the John J. Brennan Construction Company and is located adjacent to an office/garage building. The existing monopole, with a base diameter of 8 inches tapering to 4 inches at the top, has limited structural capability and supports one whip antenna extending to a height of 81 feet above ground level. The proposed 100-foot replacement tower would be located approximately 275 feet west of the existing tower, adjacent to a warehouse building in an area used for equipment storage.

The new tower would have a base diameter of 3.5 feet tapering to 1.5 feet at the top and would be designed to support three antenna platforms and the whip antenna. AT&T would place 6 panel antennas at the 95-foot level of the tower. The whip antenna would be placed at the top of the tower and would extend to a height of 107 feet above ground level. Nextel and Sprint intend on locating on the tower at the 85-foot and 75-foot levels at a future date. The existing monopole would be removed once the new tower is operational.

AT&T would install equipment cabinets on a concrete pad within a fenced compound at the base of the tower. Compound expansion would be necessary to accommodate future carriers. Utilities would be installed underground from a utility pole on Oliver Terrace, an abutting street.

The proposed site is located in an industrial and commercial area adjacent to Route 8. A residence is located approximately 200 feet north of the proposed tower site. A band of mature trees along the north property boundary would provide some screening of views from Platt Road and the adjacent residence.

The worst-case power density for the telecommunications operations at the site has been calculated to be 4.3% of the applicable standard for uncontrolled environments.



# Exhibit B

## **Property Card**



### Property Information

Owner	BRENNAN REALTY LLC
Address	30 OLIVER TERR
Mailing Address	PO BOX 788 70 PLATT RD 06484
Land Use	- RESIDENTIAL
Land Class	3-2

Census Tract	1102
Neighborhood	
Zoning	IA-2
Acreage	1.18
Utilities	GAS/ELECTRIC
Lot Setting/ Desc	/

### Photo



### PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings		
Outbuildings		
Improvements		
Extras		
Land		
<b>Total</b>	<b>238000</b>	<b>166600</b>
Previous		

### Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Total Rooms	
Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

#### EXTERIOR WALLS:

Primary	
Secondary	

#### INTERIOR WALLS:

Primary	
Secondary	

#### FLOORS:

Primary	
Secondary	

#### HEATING/AC:

Heating Type	
Heating Fuel	
AC Type	

#### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

#### SALES HISTORY:

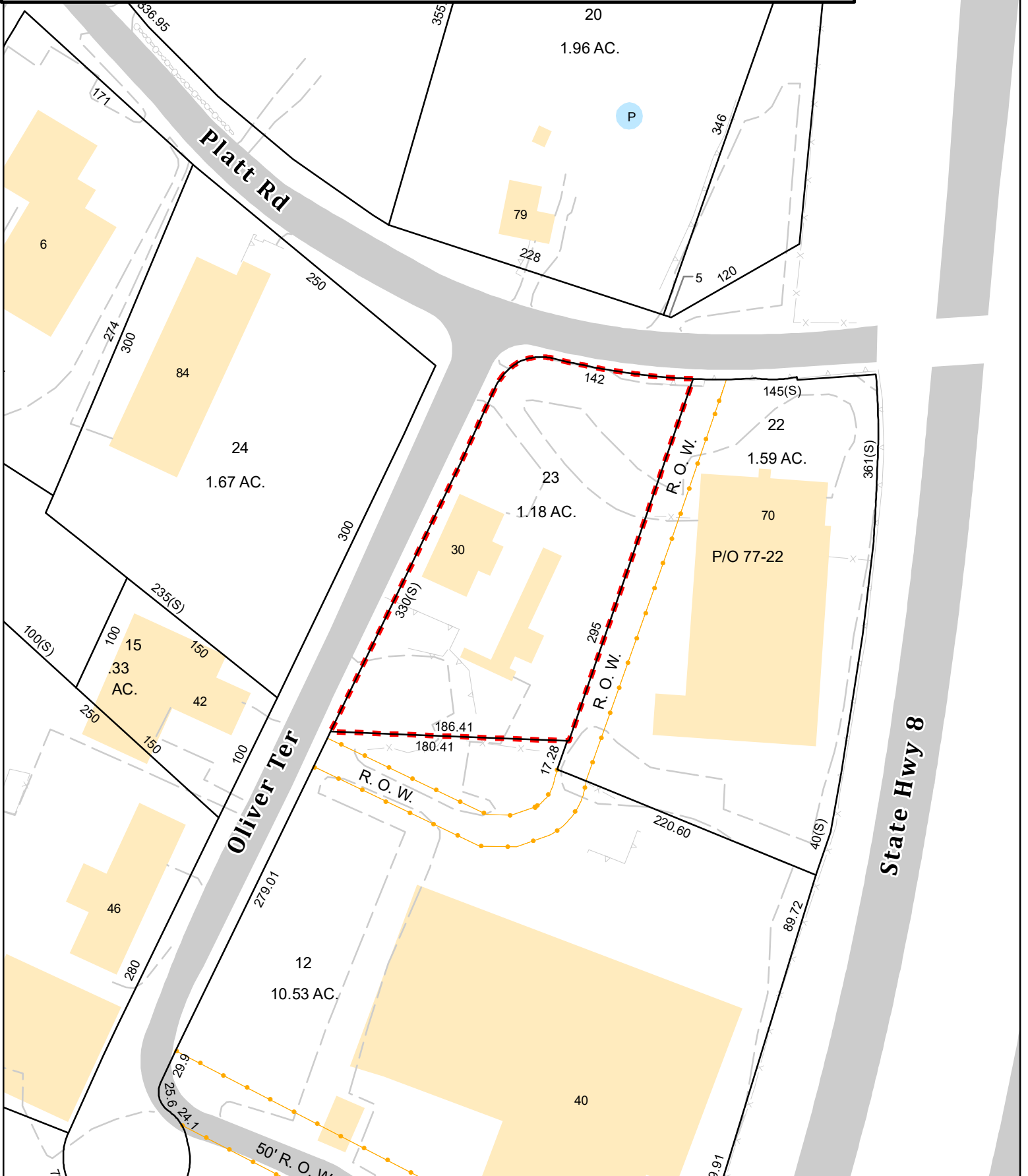
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Sale Price	0
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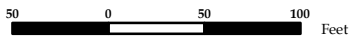
# City of Shelton, Connecticut - Parcel Map

Parcels: 77.-23

Address: 30 OLIVER TERR



Approximate Scale: 1:1,200



Map Produced April 2017

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

# Exhibit C

## **Construction Drawings**



**AT&T SITE NUMBER:** CTL05431  
**AT&T SITE NAME:** SHELTON NE  
**AT&T FA CODE:** 10071231  
**AT&T PACE NUMBER:** MRCTB043877, MRCTB043875  
**SITE TYPE:** MONOPOLE

**BUSINESS UNIT #:** 842873  
**SITE ADDRESS:** 30 OLIVER TERRACE  
**SHELTON, CT 06484**  
**COUNTY:** FAIRFIELD COUNTY  
**TOWER HEIGHT:** 140'-0"

**PROJECT: AT&T LTE 5C & 6C**



**AT&T SITE NUMBER:**  
**CTL05431**  
**BU #:** 842873  
**SHELTON NE**  
**30 OLIVER TERRACE**  
**SHELTON, CT 06484**  
**EXISTING 140'-0"**  
**MONOPOLE**

**SITE INFORMATION**

CROWN CASTLE USA INC. SHELTON NE  
 SITE NAME: 30 OLIVER TERRACE  
 SITE ADDRESS: SHELTON, CT 06484  
 COUNTY: FAIRFIELD COUNTY  
 AREA OF CONSTRUCTION: EXISTING  
 LATITUDE: 41.2937919  
 LONGITUDE: -73.1072989  
 LAT/LONG TYPE: NAD83  
 OCCUPANCY CLASSIFICATION: U  
 TYPE OF CONSTRUCTION: IIB  
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION  
 TOWER OWNER: CROWN CASTLE  
 2000 CORPORATE DRIVE  
 CANONSURG, PA 15317  
 CARRIER/APPLICANT: AT&T MOBILITY  
 ONE AT&T WAY  
 BEDMINSTER, NJ 07921  
 CROWN CASTLE USA INC.  
 APPLICATION ID: 516676

**DRAWING INDEX**

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	EQUIPMENT PLAN
C-3	TOWER ELEVATIONS
C-4	ANTENNA ORIENTATION
C-5	ANTENNA SCHEDULE
C-6	ANTENNA AND RRH SPECS.
C-7	ANTENNA AND RRH DETAIL
C-8	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS

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

**PROJECT DESCRIPTION**

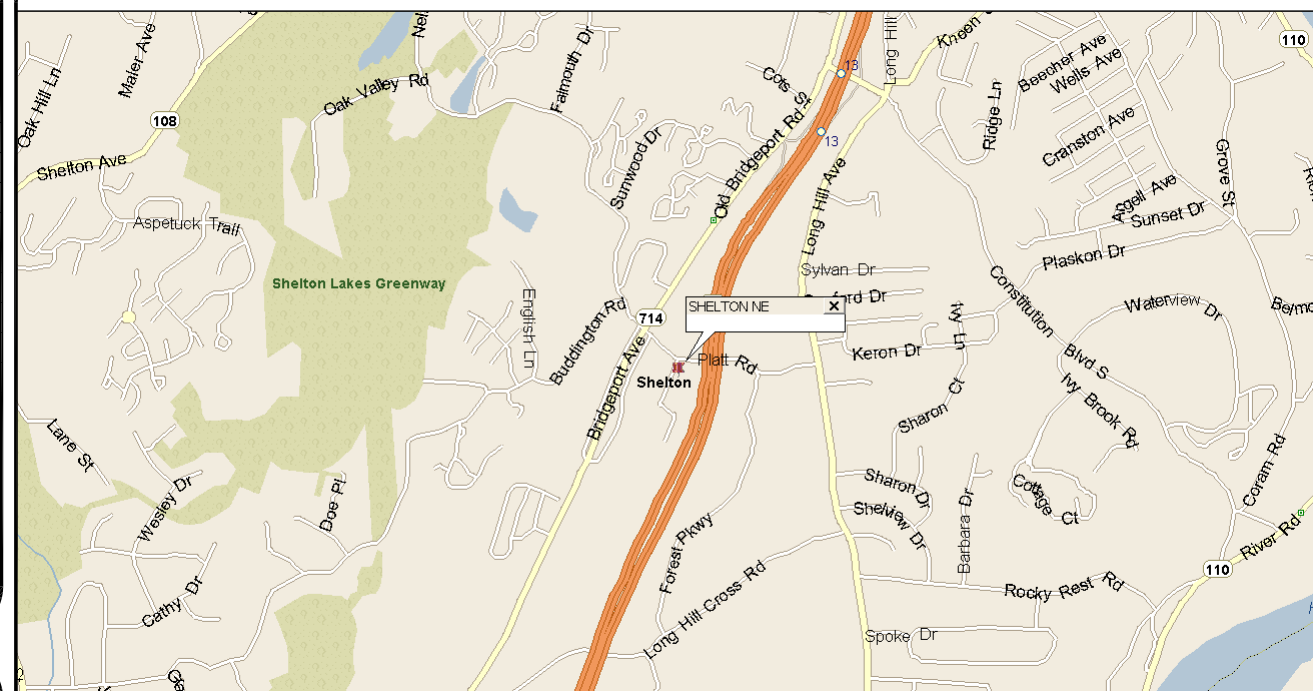
THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.

- TOWER SCOPE OF WORK
- RELOCATE (3) CCI HPA-65R-BUU-H6 ANTENNAS
  - RELOCATE (3) ERICSSON 4415 B30 RRHS
  - RELOCATE (3) ERICSSON 4449 B5/B12 RRHS
  - RELOCATE (1) RAYCAP DC6-48-60-18-8F SQUID
  - INSTALL (3) CCI OPA65R-BU6DA ANTENNAS
  - INSTALL (3) ERICSSON 4478 B14 RRHS
  - INSTALL (3) ERICSSON RRUS-32 B66A RRHS
  - INSTALL (1) RAYCAP DC6-48-60-0-8C-EV SQUID
  - INSTALL (2) DC TRUNKS

DESIGN PACKAGE BASED ON THE RFDS  
 REVISION: FINAL  
 DATE: 2/27/20

DESIGN PACKAGE BASED ON THE APPLICATION  
 ID: 516676  
 REVISION: 0

**LOCATION MAP**



NO SCALE

**APPLICABLE CODES/REFERENCE DOCUMENTS**

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

CODE TYPE	CODE
BUILDING	2018 CONNETTICUT BUILDING CODE (2015 IBC)
MECHANICAL	2018 CONNETTICUT BUILDING CODE (2015 IMC)
ELECTRICAL	2018 CONNETTICUT BUILDING CODE (2017 NEC)

REFERENCE DOCUMENTS:  
 STRUCTURAL ANALYSIS: CROWN CASTLE  
 APRIL 9, 2020

MOUNT ANALYSIS: TOWER ENGINEERING  
 PROFESSIONALS  
 APRIL 7, 2020

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



CALL CONNECTICUT ONE CALL  
 (800) 922-4455  
 CALL 3 WORKING DAYS  
 BEFORE YOU DIG!



B&T ENGINEERING, INC.  
 PEC.0001564  
 Expires 2/10/21

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: T-1 REVISION: 1

T-1 1

**SITE WORK GENERAL NOTES:**

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
14. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN STANDARD CED-STD-10253 INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION).

**STRUCTURAL STEEL NOTES:**

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

**CONCRETE AND REINFORCING STEEL NOTES:**

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:  
 CONCRETE CAST AGAINST EARTH.....3 IN.  
 CONCRETE EXPOSED TO EARTH OR WEATHER:  
 #6 AND LARGER.....2 IN.  
 #5 AND SMALLER & WWF.....1 1/2 IN.  
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:  
 SLAB AND WALLS.....3/4 IN.  
 BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

**MASONRY NOTES:**

1. HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N. TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

**GENERAL NOTES:**













1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR- GENERAL CONTRACTOR (CONSTRUCTION)  
 SUBCONTRACTOR- AT&T  
 CARRIER- CROWN CASTLE USA INC.  
 TOWER OWNER- CROWN CASTLE USA INC.  
 OEM- ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND CROWN CASTLE USA INC.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

**ABBREVIATIONS AND SYMBOLS:**

**ABBREVIATIONS:**

- AGL ABOVE GRADE LEVEL
- BTS BASE TRANSCIEVER STATION
- EXISTING EXISTING
- MIN. MINIMUM
- REF REFERENCE
- RF RADIO FREQUENCY
- T.B.D. TO BE DETERMINED
- T.B.R. TO BE RESOLVED
- TYP TYPICAL
- REQ REQUIRED
- EGR EQUIPMENT GROUND RING
- AWG AMERICAN WIRE GAUGE
- MCB MASTER GROUND BAR
- EG EQUIPMENT GROUND
- BCW BARE COPPER WIRE
- SIAD SMART INTEGRATED ACCESS DEVICE
- GEN GENERATOR
- IGR INTERIOR GROUND RING (HALO)
- RBS RADIO BASE STATION

**SYMBOLS:**

-  SOLID GROUND BUS BAR
-  SOLID NEUTRAL BUS BAR
-  SUPPLEMENTAL GROUND CONDUCTOR
-  2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
-  SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
-  CHEMICAL GROUND ROD
-  TEST WELL
-  DISCONNECT SWITCH
-  METER
-  EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
-  MECHANICAL CONNECTION
-  GROUNDING WIRE

**ELECTRICAL INSTALLATION NOTES:**

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY CROWN CASTLE USA INC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
22. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
28. INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T".
29. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

**GREENFIELD GROUNDING NOTES:**

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

NEC INSULATOR COLOR CODE		
DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	LEG 2	RED
AC NEUTRAL	N	WHITE
GROUND (EGC)	G	GREEN
VDC POS	+	*RED-POLARITY MARK AT TERMINATION
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION
240V OR 208V, 3Ø	PHASE A	BLACK
	PHASE B	RED(ORG. IF HI LEG)
	PHASE C	BLUE
480V, 3Ø	PHASE A	BROWN
	PHASE B	ORANGE OR PURPLE
	PHASE C	YELLOW

\* SEE NEC 210.5(C)(1) AND (2)



ONE AT&T WAY  
BEDMINSTER, NJ 07921



3200 HORIZON DRIVE, SUITE 150  
KING OF PRUSSIA, PA 19406



1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

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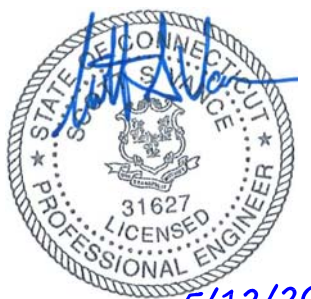
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**SHELTON NE**

30 OLIVER TERRACE  
**SHELTON, CT 06484**

EXISTING 140'-0"  
**MONOPOLE**

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/24/20	JCO	CONSTRUCTION	RMC
1	5/12/20	GEH	CONSTRUCTION	RMC



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**T-2** **1**



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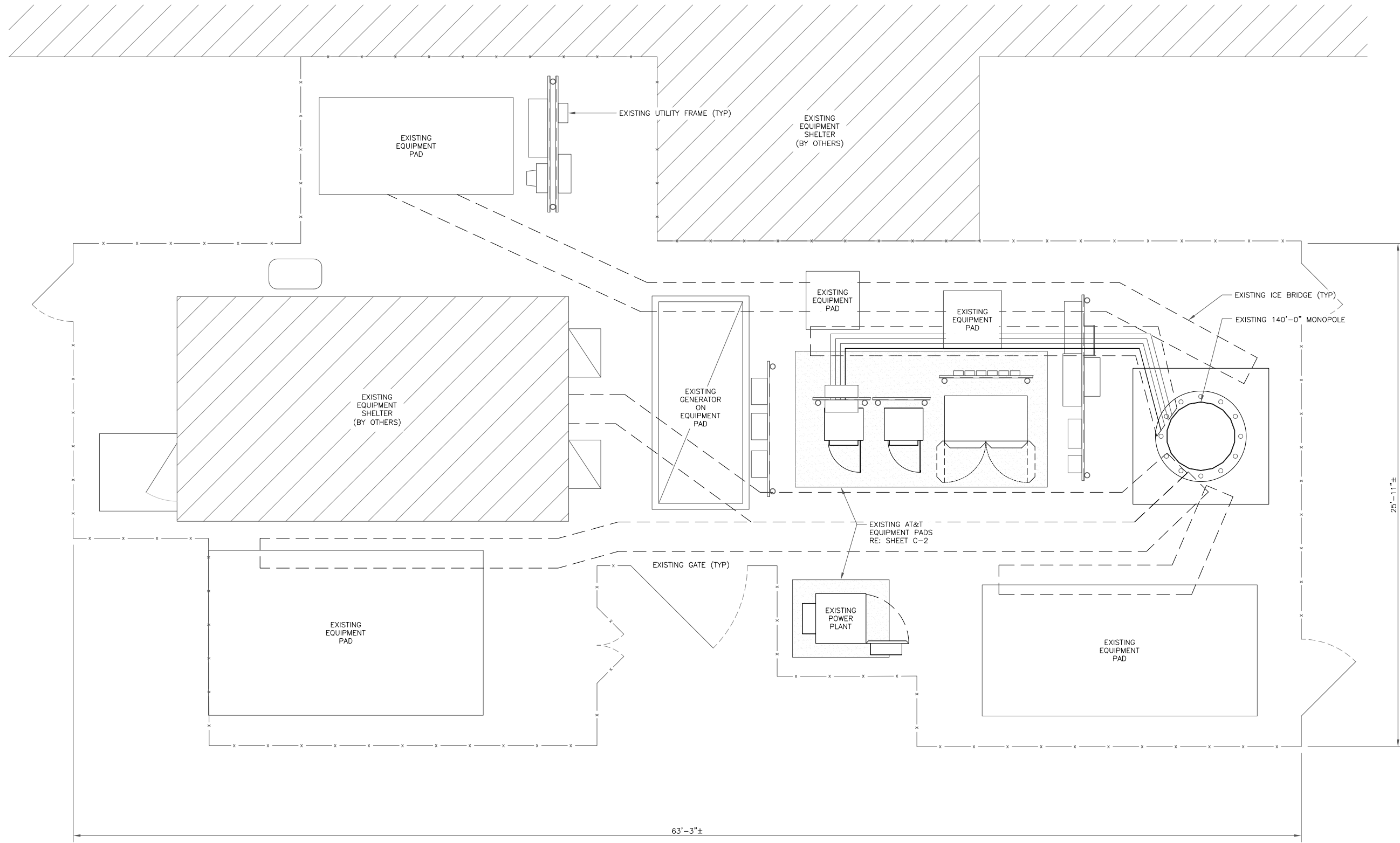
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**C-1**

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**1**



1 SITE PLAN  
 SCALE: 3/8"=1'-0" (FULL SIZE)  
 3/16"=1'-0" (11x17)



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30 OLIVER TERRACE  
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5/12/20

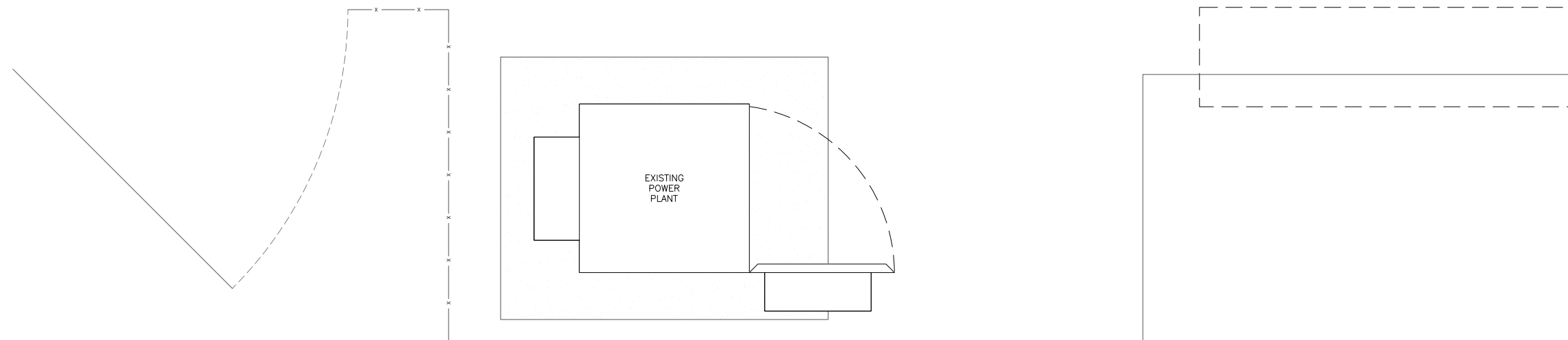
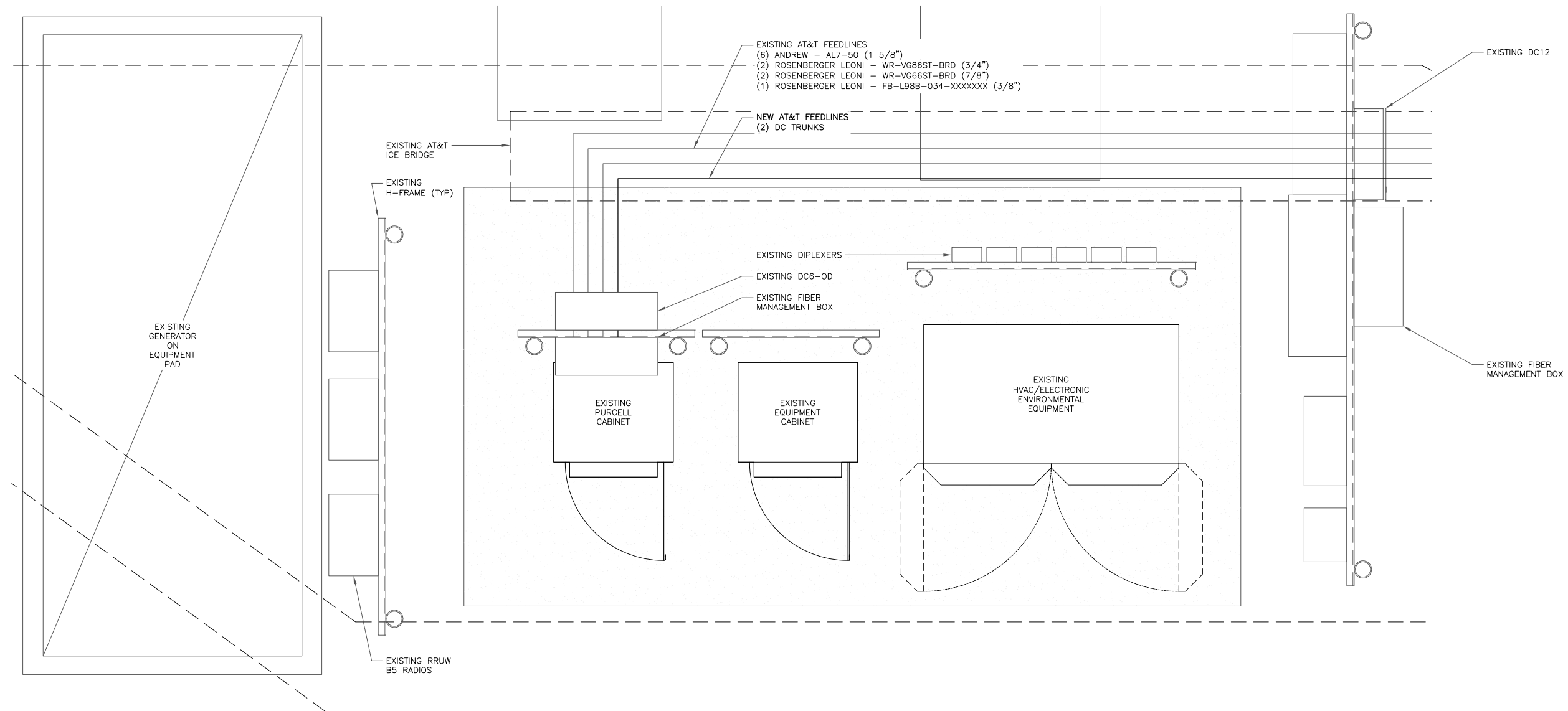
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SHEET NUMBER: REVISION:

C-2

1

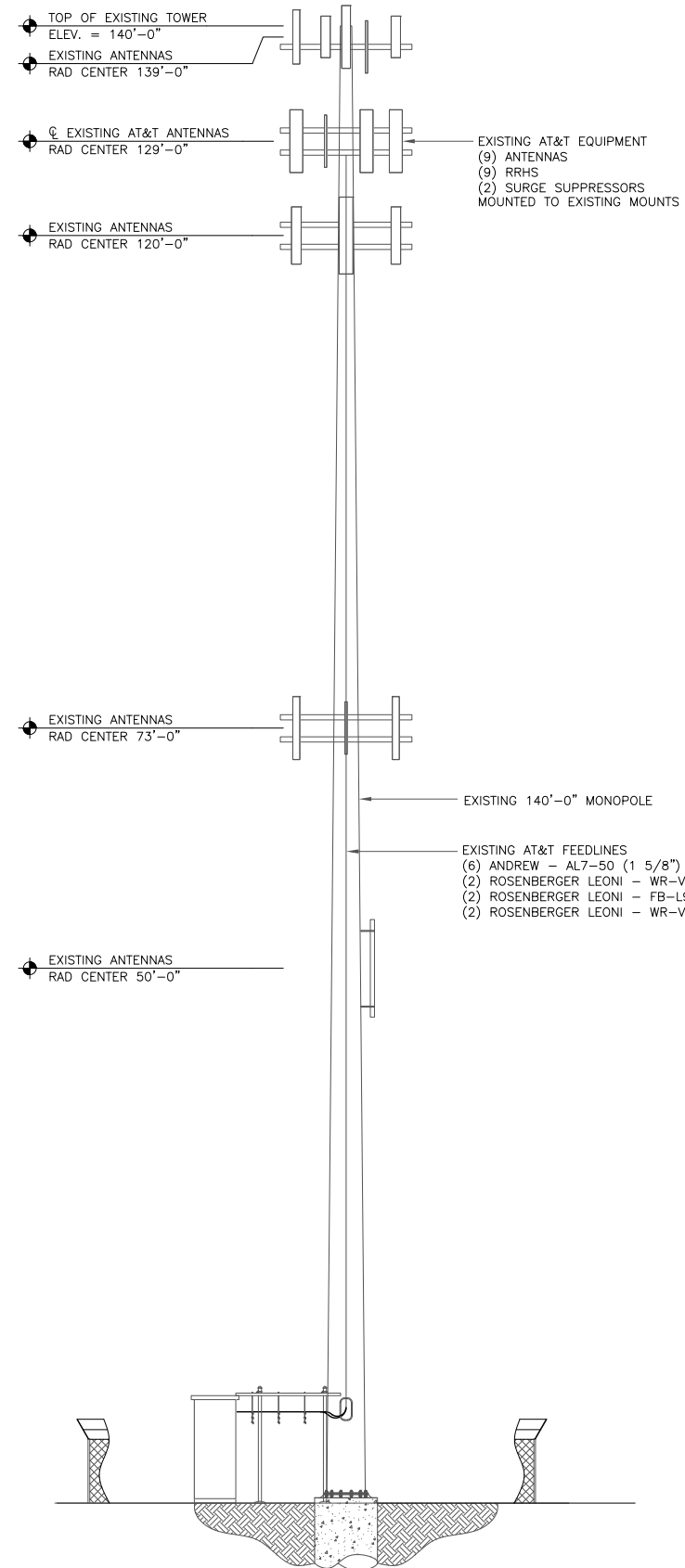


1 EXISTING EQUIPMENT PLAN  
SCALE: 3/4"=1'-0" (FULL SIZE)  
3/8"=1'-0" (11x17)



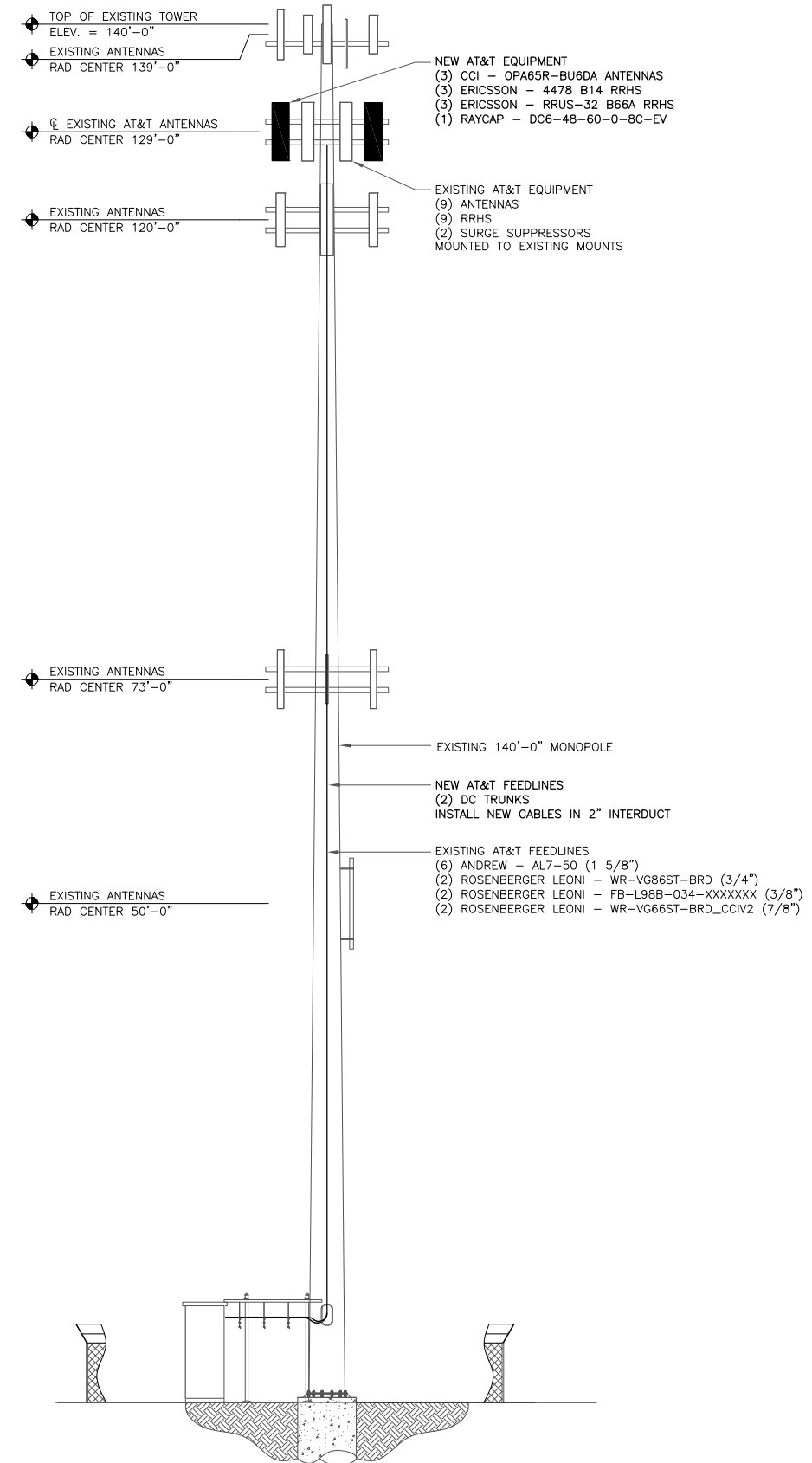


**AT&T EQUIPMENT**  
 ANTENNA CL: 129'-0"  
 MOUNT CL: 129'-0"



1 EXISTING ELEVATION  
 SCALE: NOT TO SCALE

**AT&T EQUIPMENT**  
 ANTENNA CL: 129'-0"  
 MOUNT CL: 129'-0"



2 FINAL ELEVATION  
 SCALE: NOT TO SCALE



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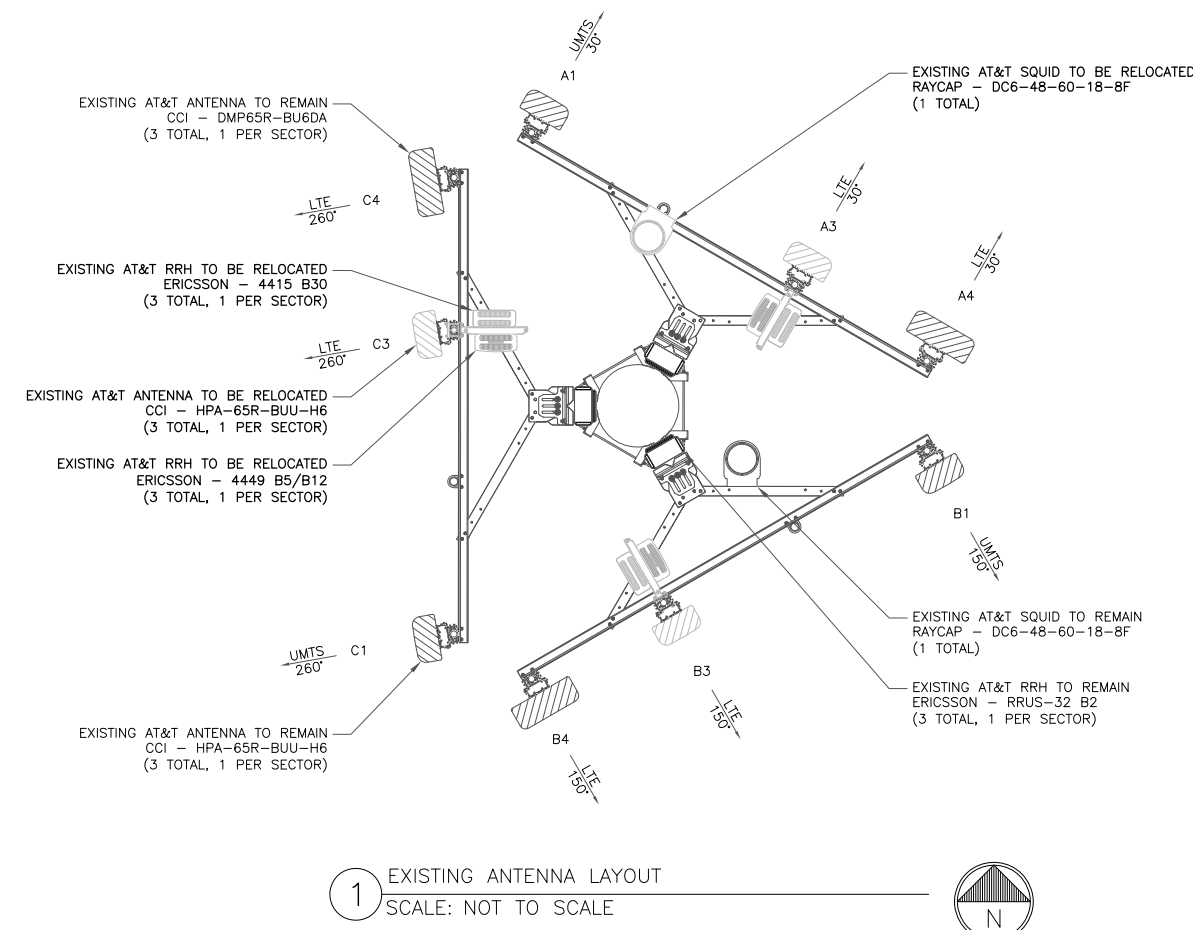
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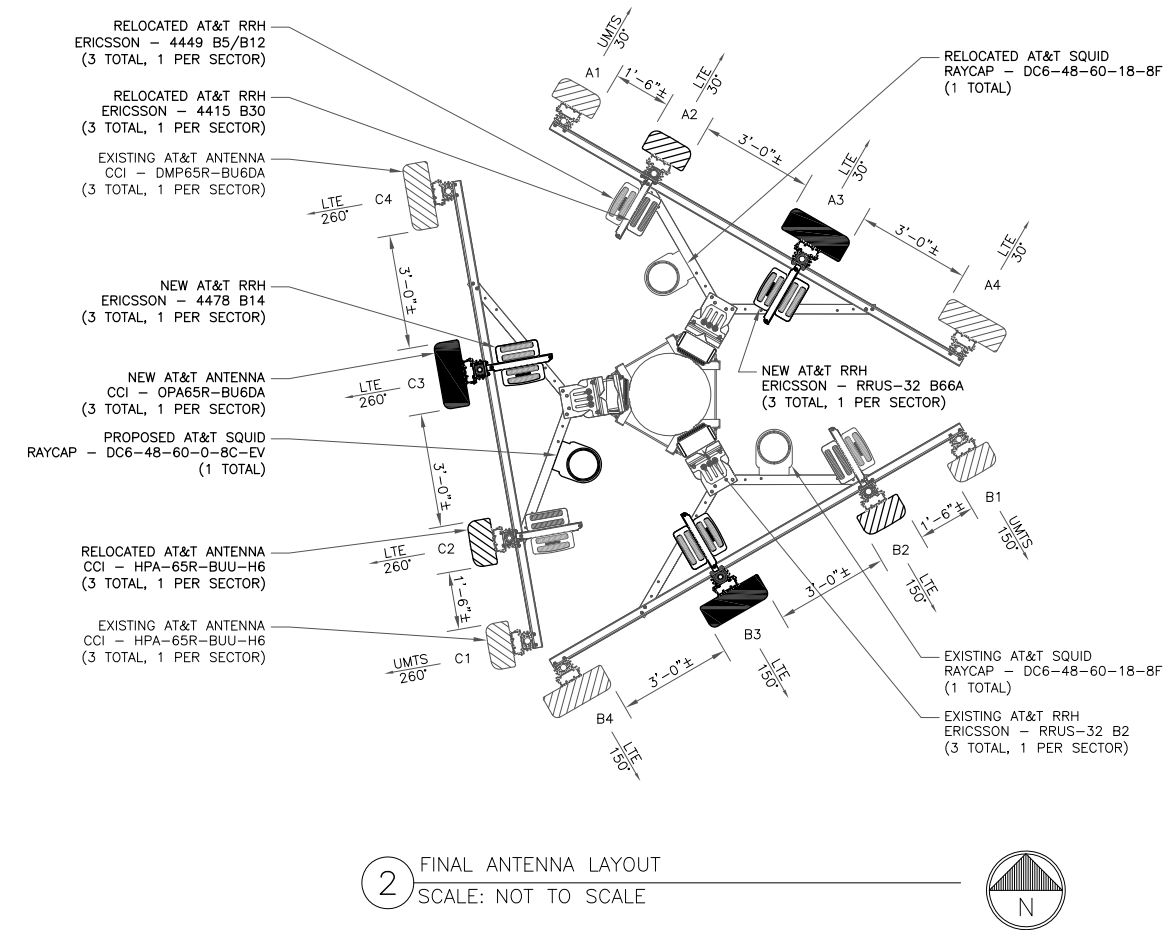
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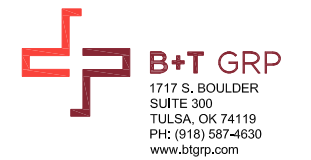
**1**



NOTE:  
ANTENNA MOUNTS TO BE ROTATED TO  
ELIMINATE ANTENNA SKEW.



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SHEET NUMBER: **C-5** REVISION: **1**

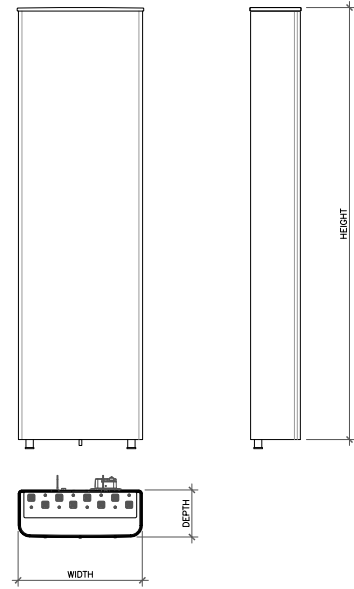
NOTE: RFDS BEING USED DATED 2/27/20 V FINAL

**FINAL ANTENNA AND COAXIAL CABLE SCHEDULE**

POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	RAYCAP	DC (WR-VG86ST-BRD) FIBER CABLES (FB-L98B-034-XXXXXX)	RRHs QTY ON TOWER	RRHs ON GROUND	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	UMTS	EXISTING	30°	CCI HPA-65R-BUU-H6	129'-0"	0°	2'	1 5/8"	179'-0"	2	-			-	-	-	-	Y
A2	LTE	EXISTING	30°	CCI HPA-65R-BUU-H6	129'-0"	0°	4'/4'	-	-	-	-		(2) DC6-48-60-18-8F (1) DC6-48-60-0-8C-EV	(1) RRUS-32 B2	-	-	-	Y
A3	LTE	NEW	30°	CCI OPA65R-BU6DA	129'-0"	0°	2'/3'	-	-	-	-			(1) 4478 B14 (1) RRUS-32 B66A	-	-	-	Y
A4	LTE	EXISTING	30°	CCI DMP65R-BU8DA	129'-0"	0°	2'/3'/2'/2'	-	-	-	-			(1) 4449 B5/B12 (1) 4415 B30	-	-	-	Y
BETA SECTOR																		
B1	UMTS	EXISTING	150°	CCI HPA-65R-BUU-H6	129'-0"	0°	2'	1 5/8"	179'-0"	2	-			-	-	-	-	Y
B2	LTE	EXISTING	150°	CCI HPA-65R-BUU-H6	129'-0"	0°	4'/4'	-	-	-	-			(1) RRUS-32 B2	-	-	-	Y
B3	LTE	NEW	150°	CCI OPA65R-BU6DA	129'-0"	0°	2'/3'	-	-	-	-			(1) 4478 B14 (1) RRUS-32 B66A	-	-	-	Y
B4	LTE	EXISTING	150°	CCI DMP65R-BU8DA	129'-0"	0°	2'/3'/2'/2'	-	-	-	-			(1) 4449 B5/B12 (1) 4415 B30	-	-	-	Y
GAMMA SECTOR																		
C1	UMTS	EXISTING	260°	CCI HPA-65R-BUU-H6	129'-0"	0°	2'	1 5/8"	179'-0"	2	-			-	-	-	-	Y
C2	LTE	EXISTING	260°	CCI HPA-65R-BUU-H6	129'-0"	0°	4'/4'	-	-	-	-			(1) RRUS-32 B2	-	-	-	Y
C3	LTE	NEW	260°	CCI OPA65R-BU6DA	129'-0"	0°	2'/3'	-	-	-	-			(1) 4478 B14 (1) RRUS-32 B66A	-	-	-	Y
C4	LTE	EXISTING	260°	CCI DMP65R-BU8DA	129'-0"	0°	2'/3'/2'/2'	-	-	-	-			(1) 4449 B5/B12 (1) 4415 B30	-	-	-	Y

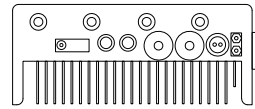
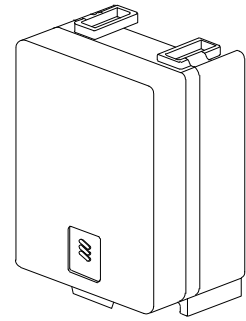
NOTE: BOLD DENOTES NEW EQUIPMENT

1 FINAL ANTENNA AND COAXIAL CABLE SCHEDULE  
SCALE: NOT TO SCALE



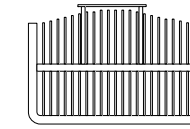
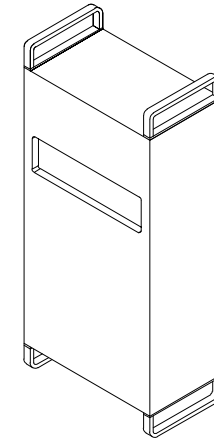
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
OPA65R-BU6DA	71.2"	21.0"	7.8"	60.2 lbs

1 ANTENNA DETAIL  
SCALE: NOT TO SCALE



ERICSSON - 4478 B14  
WEIGHT (FULLY EQUIPPED): 59.4 LBS  
SIZE (HxWxD): 18.1x13.4x8.26 IN.

2 RRH DETAIL  
SCALE: NOT TO SCALE



ERICSSON - RRUS-32 B66A  
WEIGHT (FULLY EQUIPPED): 72.0 LBS  
SIZE (HxWxD): 14.9x13.2x10.9 IN.

3 RRH DETAIL  
SCALE: NOT TO SCALE

 **AT&T**  
ONE AT&T WAY  
BEDMINSTER, NJ 07921

 **CROWN CASTLE**  
3200 HORIZON DRIVE, SUITE 150  
KING OF PRUSSIA, PA 19406

 **B+T GRP**  
1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

AT&T SITE NUMBER:  
**CTL05431**

BU #: **842873**  
**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0"  
MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/24/20	JCO	CONSTRUCTION	RMC
1	5/12/20	GEH	CONSTRUCTION	RMC



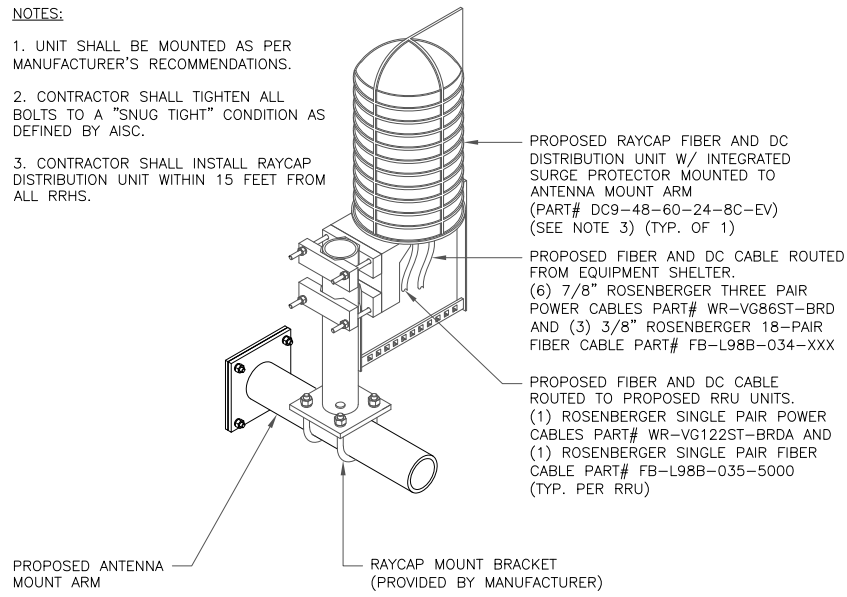
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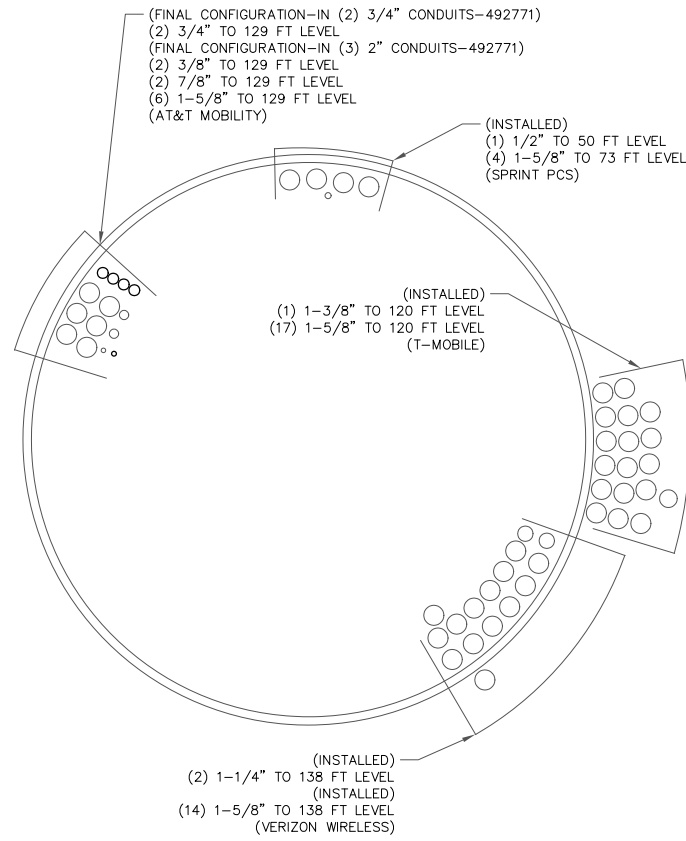
SHEET NUMBER: **C-6** REVISION: **1**

**NOTES:**

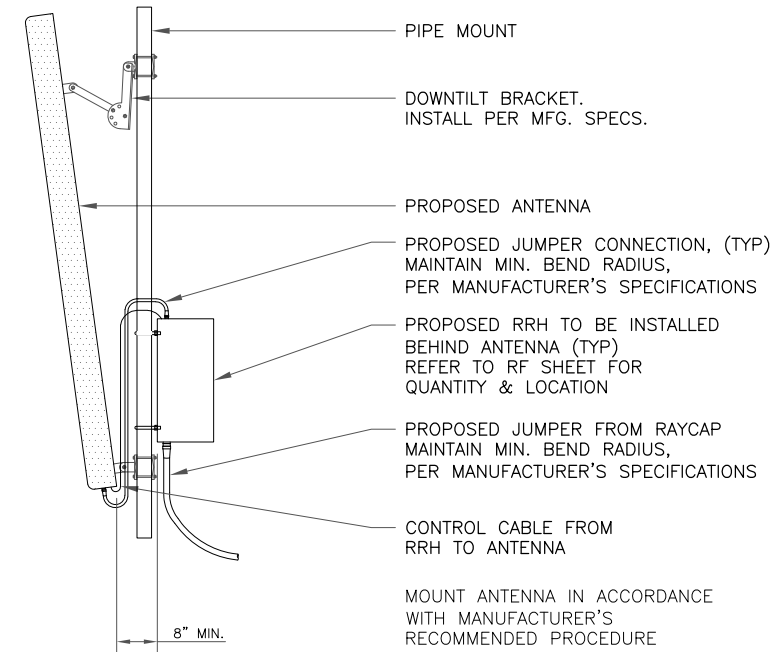
1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRHS.



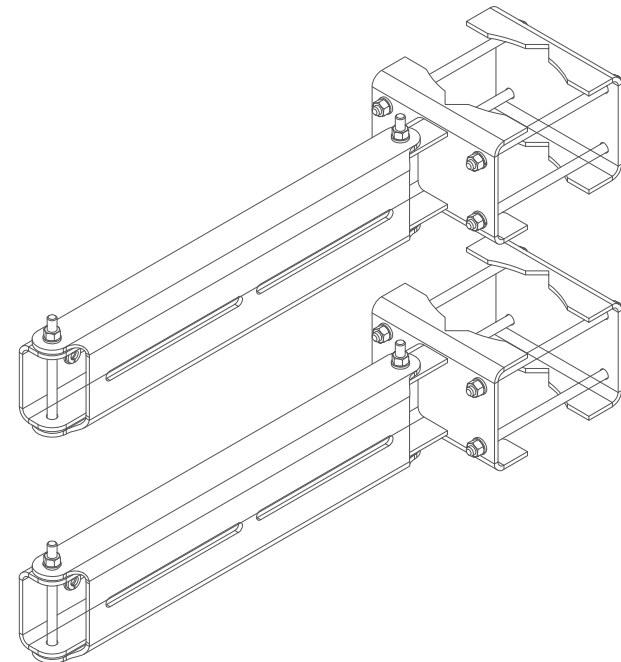
1 RAYCAP MOUNTING DETAIL  
SCALE: NOT TO SCALE



2 BASE LEVEL DRAWING  
SCALE: NOT TO SCALE

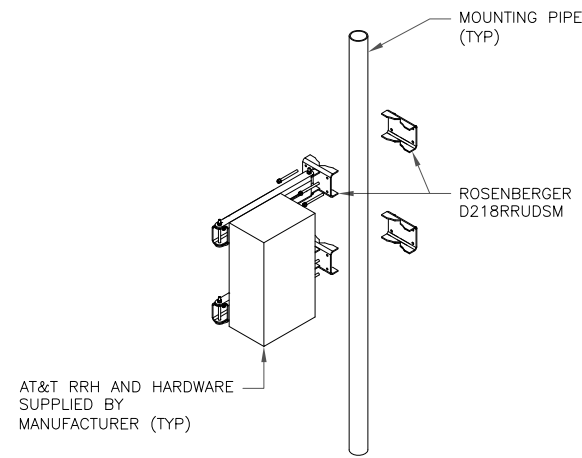


3 ANTENNA MOUNTING DETAIL  
SCALE: NOT TO SCALE



4 VALMONT - RRUDSM BACK-TO-BACK BRACKET  
SCALE: NOT TO SCALE

**NOTE:**  
COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRH'S RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. DO NOT OPEN RRH PACKAGES IN THE RAIN.



5 RRH DUAL BRACKET MOUNT DETAIL  
SCALE: NOT TO SCALE

ONE AT&T WAY  
BEDMINSTER, NJ 07921

3200 HORIZON DRIVE, SUITE 150  
KING OF PRUSSIA, PA 19406

1717 S. BOULDER  
SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
www.btgrp.com

AT&T SITE NUMBER:  
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**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0"  
MONOPOLE

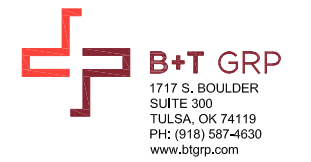
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AT&T SITE NUMBER:  
**CTL05431**

BU #: 842873  
**SHELTON NE**

30 OLIVER TERRACE  
**SHELTON, CT 06484**

EXISTING 140'-0"  
**MONOPOLE**

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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1	5/12/20	GEH	CONSTRUCTION	RMC

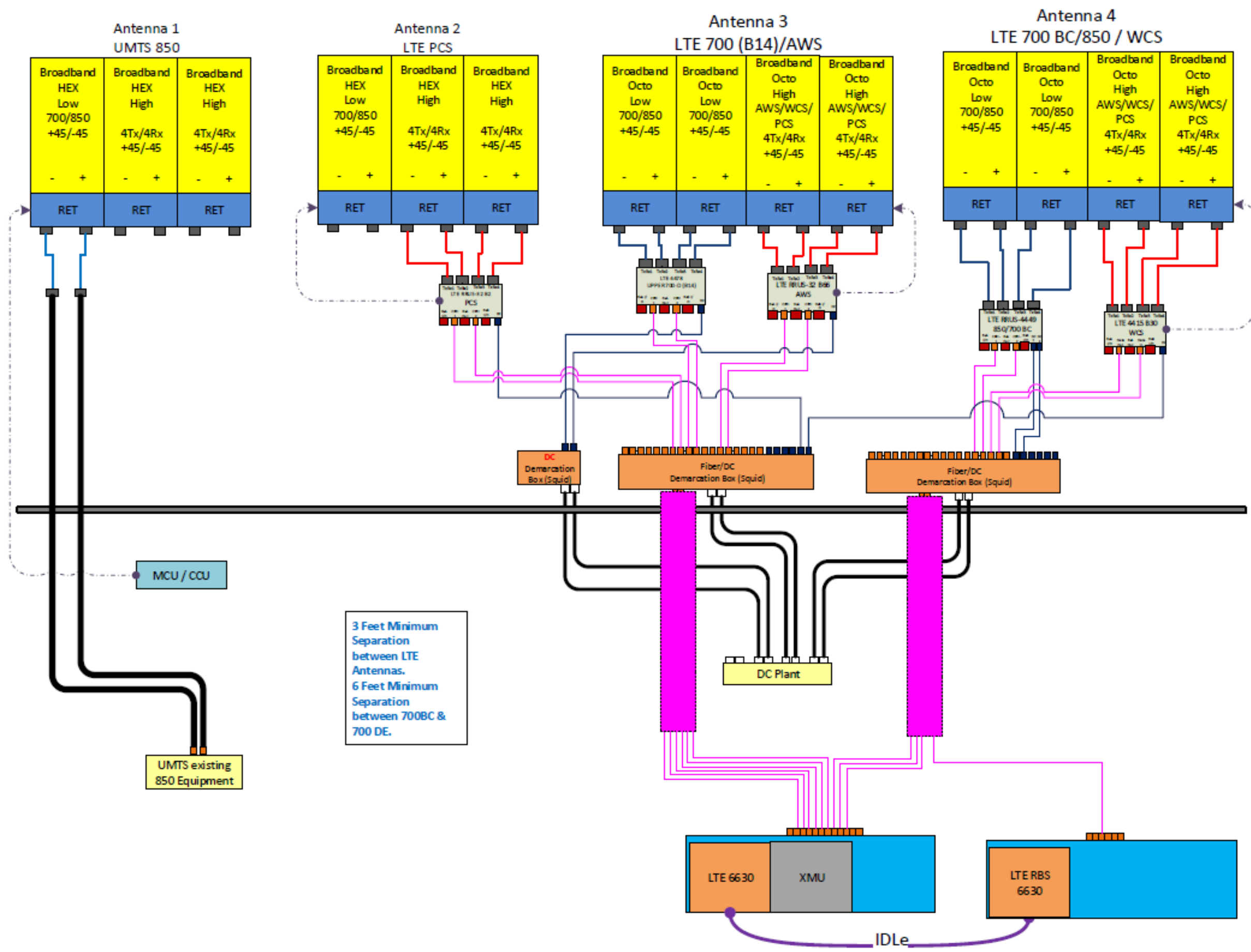


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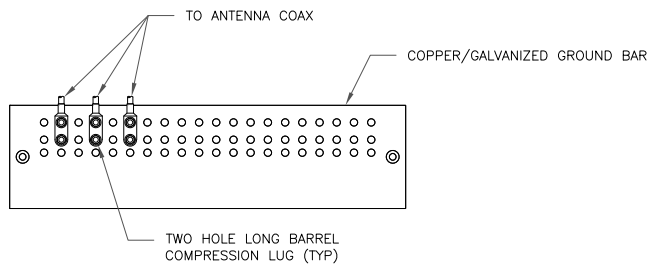
SHEET NUMBER: REVISION:

**C-8** **1**



1 PLUMBING DIAGRAM  
SCALE: NOT TO SCALE

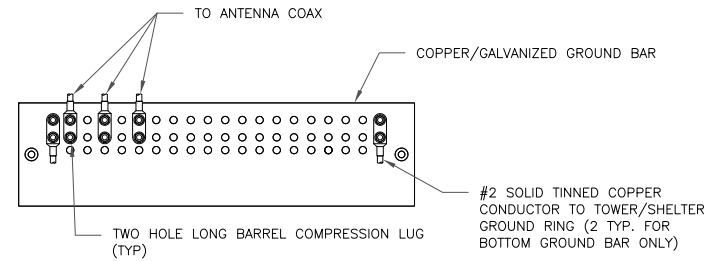
139808\_842873\_Shelton\_NE.dwg - Sheet: C-8 - User: rcarson - May 12, 2020 - 6:03pm



**NOTES:**

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

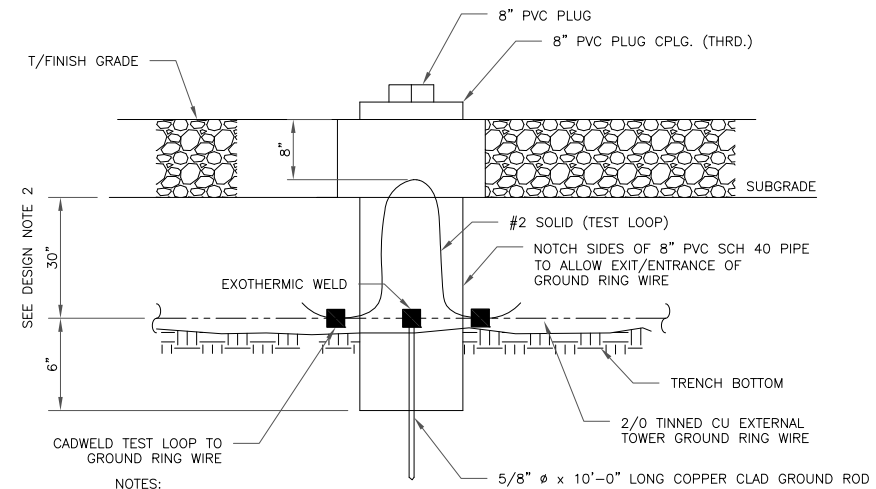
1 ANTENNA GROUND BAR DETAIL  
SCALE: NOT TO SCALE



**NOTES:**

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

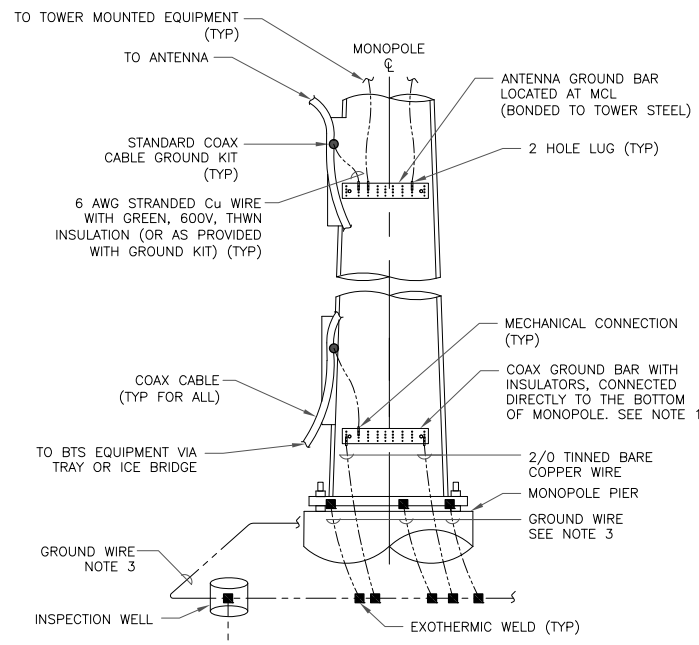
2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE



**NOTES:**

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

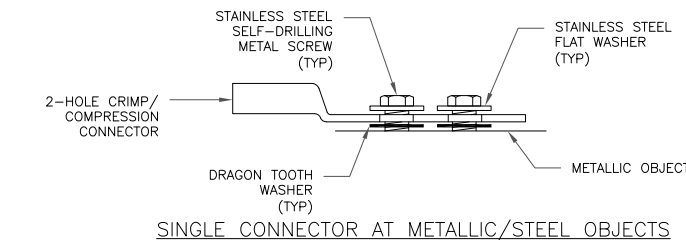
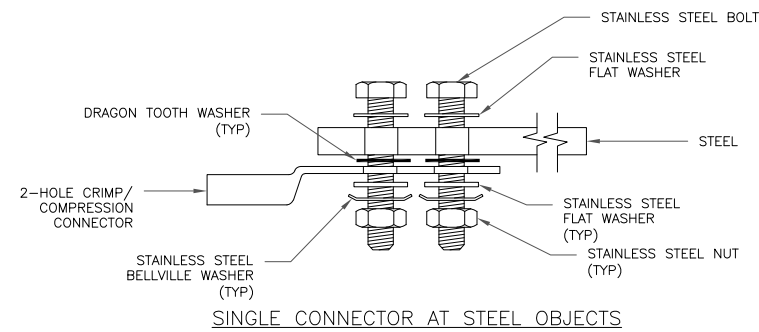
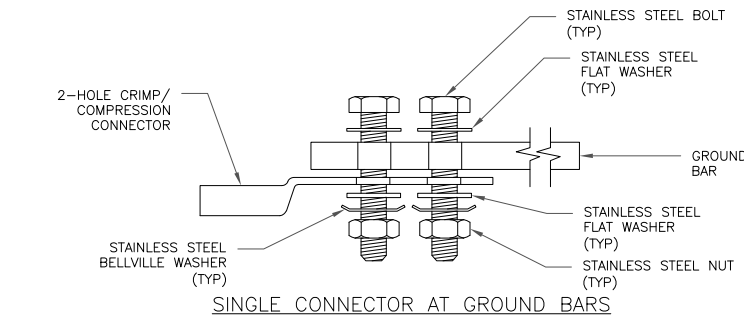
3 INSPECTION WELL DETAIL  
SCALE: NOT TO SCALE



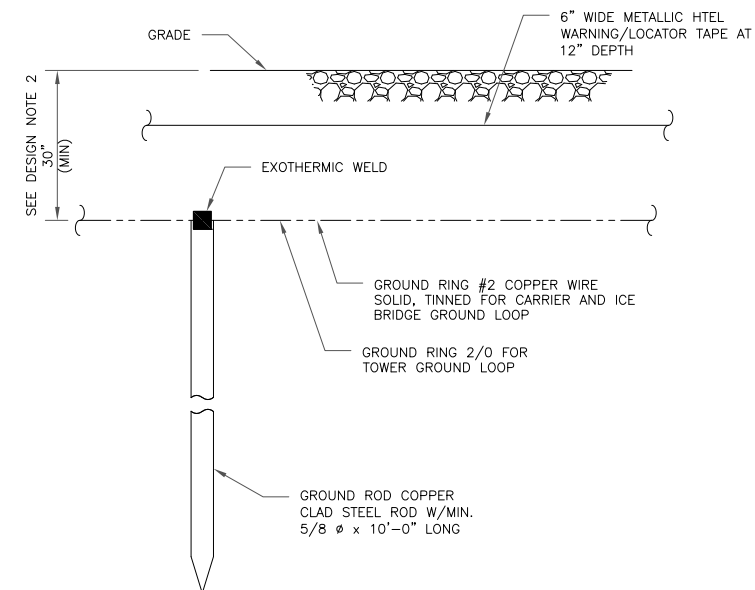
**NOTES:**

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

4 TYPICAL ANTENNA CABLE GROUNDING  
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



**NOTES:**

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

6 GROUND ROD DETAIL  
SCALE: NOT TO SCALE



AT&T SITE NUMBER:  
**CTL05431**

BU #: 842873  
**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0"  
MONOPOLE

**ISSUED FOR:**

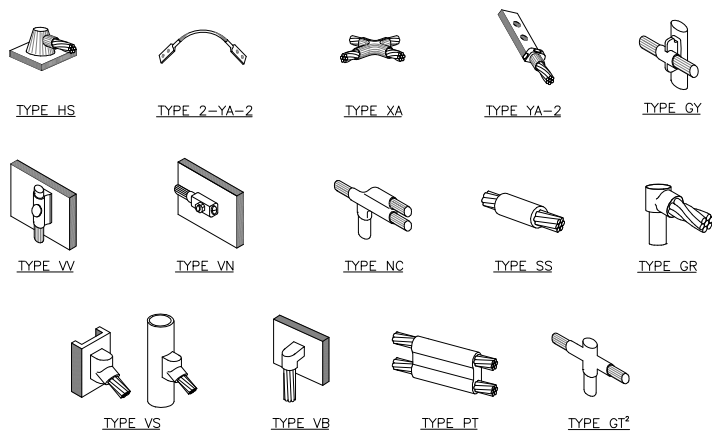
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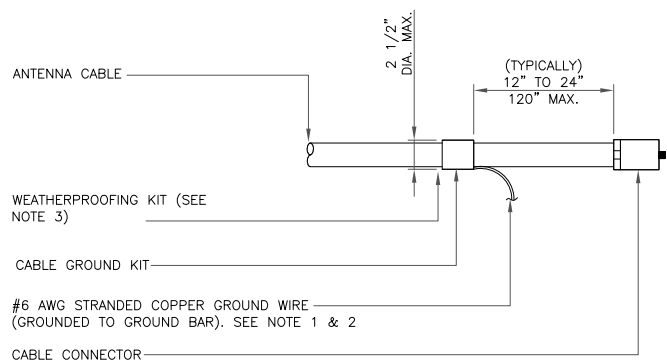
SHEET NUMBER: **G-1** REVISION: **1**



**NOTE:**

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

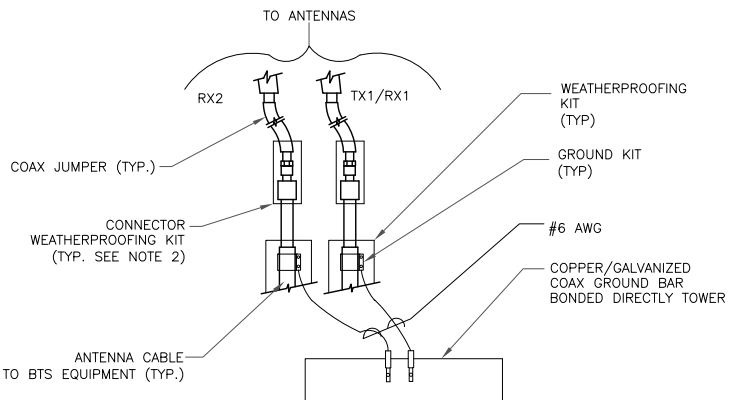
**1 CADWELD GROUNDING CONNECTIONS**  
SCALE: NOT TO SCALE



**NOTES:**

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

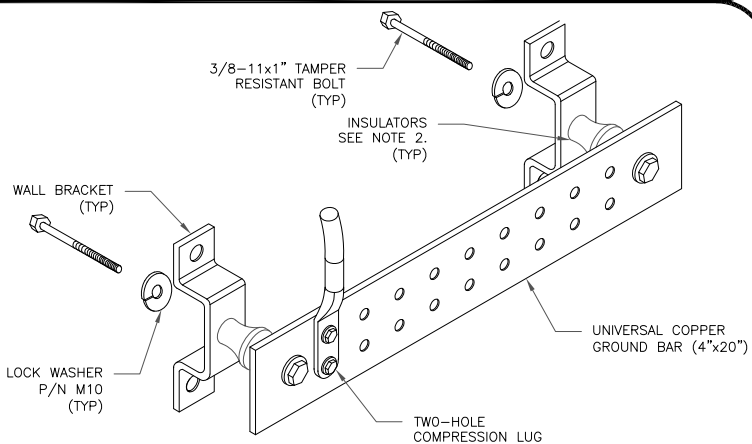
**3 CABLE GROUND KIT CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

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

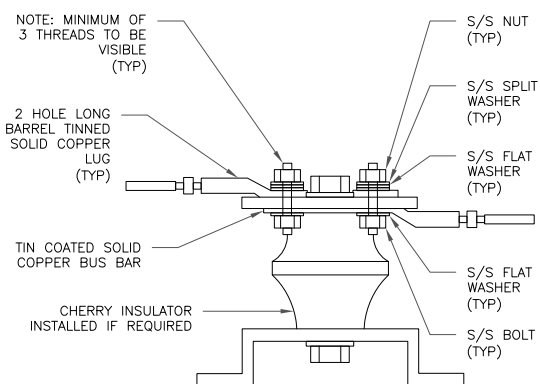
**4 GROUND CABLE CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

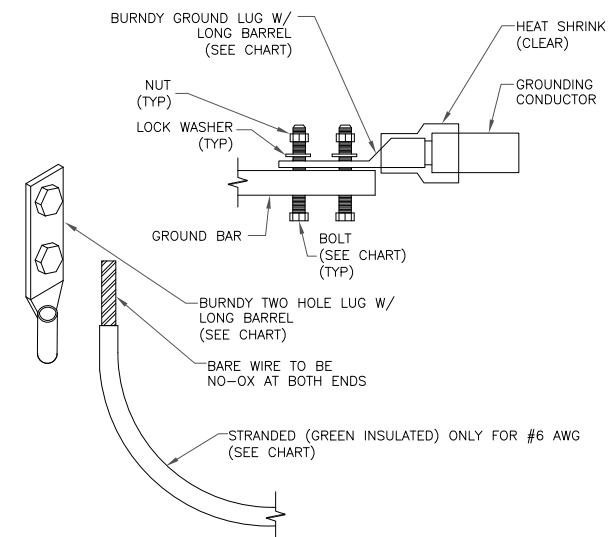
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091, NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR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

**6 GROUND BAR DETAIL**  
SCALE: NOT TO SCALE



**7 LUG DETAIL**  
SCALE: NOT TO SCALE

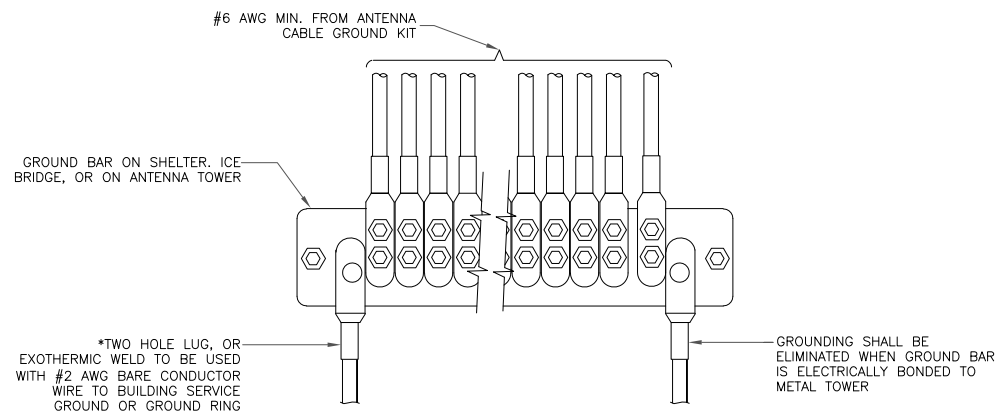
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



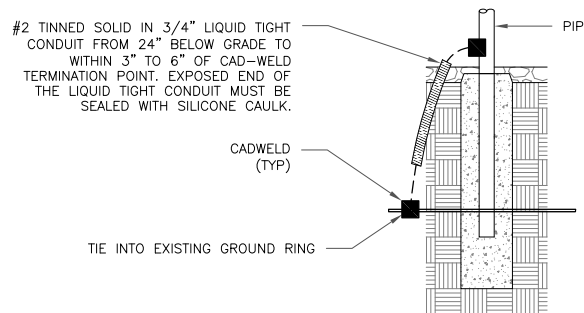
**NOTES:**

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

**2 MECHANICAL LUG CONNECTION**  
SCALE: NOT TO SCALE



**5 GROUNDWIRE INSTALLATION**  
SCALE: NOT TO SCALE



**8 TRANSITIONING GROUND DETAIL**  
SCALE: NOT TO SCALE



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5/12/20

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**G-2** **1**



# Exhibit D

## **Structural Analysis Report**



Date: **April 09, 2020**

Denice Nicholson  
Crown Castle  
3 Corporate Drive  
Clifton Park, NY 12065

Crown Castle  
2000 Corporate Drive  
Canonsburg, PA 15317  
(724) 416-2000

**Subject:** **Structural Analysis Report**

**Carrier Designation:** **AT&T Mobility Co-Locate**  
**Carrier Site Number:** 10071231  
**Carrier Site Name:** SHELTON NE

**Crown Castle Designation:** **Crown Castle BU Number:** 842873  
**Crown Castle Site Name:** SHELTON NE  
**Crown Castle JDE Job Number:** 604959  
**Crown Castle Work Order Number:** 1839222  
**Crown Castle Order Number:** 516676 Rev. 0

**Engineering Firm Designation:** **Crown Castle Project Number:** 1839222

**Site Data:** **30 Oliver Terrace, SHELTON, Fairfield County, CT**  
**Latitude 41° 17' 38.21", Longitude -73° 6' 25.83"**  
**140 Foot - Monopole Tower**

Dear Denice Nicholson,

Crown Castle is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

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

LC5: Proposed Equipment Configuration

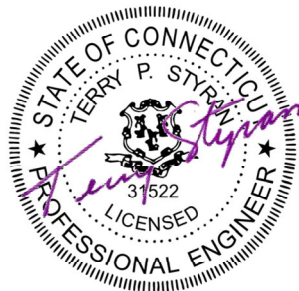
**Sufficient Capacity**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut Building Code. Applicable standard references and design criteria are listed in “Section 2 - Analysis Criteria.”

Structural analysis prepared by: Nicholas Cvetic, E.I.T.

Respectfully submitted by:

Terry P. Styran, P.E.  
Senior Project Engineer



4/13/2020

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- 3.2) Assumptions

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- Table 4 - Section Capacity (Summary)
- Table 5 - Tower Component Stresses vs. Capacity - LC5
- 4.1) Recommendations

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### 6) APPENDIX B

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### 7) APPENDIX C

- Additional Calculations

## 1) INTRODUCTION

This tower is a 140 ft Monopole tower designed by FWT Inc. The tower has been modified multiple times to accommodate additional loading.

## 2) ANALYSIS CRITERIA

<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Wind Speed:</b>	125 mph
<b>Exposure Category:</b>	B
<b>Topographic Factor:</b>	1
<b>Ice Thickness:</b>	1.5 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Service Wind Speed:</b>	60 mph

**Table 1 - Proposed Equipment Configuration**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
129.0	129.0	3	cci antennas	DMP65R-BU6D w/ Mount Pipe	6 4 2 2	1-5/8 7/8 3/8 3/4
		6	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe		
		3	cci antennas	OPA65R-BU6D w/ Mount Pipe		
		3	ericsson	RADIO 4415 B30		
		3	ericsson	RRUS 32 B2		
		3	ericsson	RRUS 32 B66A		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 4478 B14_CCIV2		
		2	raycap	DC6-48-60-0-8C-EV		
		1	raycap	DC6-48-60-18-8C-EV		
		1	sabre	Sector Mount		

**Table 2 - Other Considered Equipment**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
138.0	145.0	2	rfs celwave	DB-T1-6Z-8AB-0Z	14 2	1-5/8 1-1/4
	140.0	3	alcatel lucent	AWS4 (B66) 4X45 RRH		
		3	alcatel lucent	RRH2X60-700		
		3	alcatel lucent	RRH2X60-PCS		
		3	amphenol	BXA-80063-6BF-EDIN-4 w/ Mount Pipe		
		6	andrew	HBXX-6516DS-A2M w/ Mount Pipe		
	3	css	X7C-FRO-660-VR0 w/ Mount Pipe			
	138.0	1	andrew	DB636-C		
1		tower mounts	Platform Mount [LP 403-1]			

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	
120.0	120.0	3	ericsson	AIR 32 B2A B66AA w/ Mount Pipe	17 1	1-5/8 1-3/8	
		3	ericsson	KRY 112 144/1			
		3	ericsson	KRY 112 489/2			
		3	ericsson	RADIO 4449 B12/B71			
		3	rfs celwave	APX16DWV-16DWVS-E-A20 w/ Mount Pipe			
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe			
		1	tower mounts	T-Arm Mount [TA 602-3]			
73.0	75.0	3	alcatel lucent	1900MHZ 4X40W RRH	4	1-5/8	
		3	alcatel lucent	RRH2x50-800			
		3	commscope	DT465B-2XR w/ Mount Pipe			
		3	nokia	FZHN			
		3	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe			
	73.0	73.0	1	tower mounts			Miscellaneous [NA 510-1]
			1	tower mounts			Platform Mount [LP 1201-1]
50.0	50.0	1	pctel	GPS-TMG-HR-26NCM	1	1/2	
		1	tower mounts	Pipe Mount [PM 601-1]			

### 3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	Clarence Welti Assoc., Inc.	4529442	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Dewberry-Goodkind, Inc.	4598376	CCISITES
4-TOWER MANUFACTURER DRAWINGS	FWT	4598387	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	B+T	4858944	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	GPD	5461041	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	GPD	5461043	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	FDH	5785413	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	Jacobs	5963243	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	Jacobs	6087139	CCISITES
4-POST-MODIFICATION INSPECTION	B+T	5095590	CCISITES
4-POST-MODIFICATION INSPECTION	TEP	5994609	CCISITES
4-POST-MODIFICATION INSPECTION	FDH	6086125	CCISITES

Document	Remarks	Reference	Source
4-POST-MODIFICATION INSPECTION	FDH	6231105	CCISITES

### 3.1) Analysis Method

tnxTower (version 8.0.5.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

### 3.2) Assumptions

- 1) Tower and structures were built and maintained in accordance with the manufacturer's specifications.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

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

## 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)**

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
140 - 135	Pole	TP14.296x13.161x0.1875	Pole	14.6%	Pass
135 - 130	Pole	TP15.431x14.296x0.1875	Pole	25.2%	Pass
130 - 125	Pole	TP16.566x15.431x0.1875	Pole	43.9%	Pass
125 - 120	Pole	TP17.701x16.566x0.1875	Pole	59.8%	Pass
120 - 115	Pole	TP18.836x17.701x0.1875	Pole	78.2%	Pass
115 - 114.75	Pole + Reinf.	TP18.893x18.836x0.4625	Reinf. 9 Tension Rupture	58.0%	Pass
114.75 - 109.75	Pole + Reinf.	TP20.027x18.893x0.45	Reinf. 9 Tension Rupture	70.3%	Pass
109.75 - 104.75	Pole + Reinf.	TP21.162x20.027x0.425	Reinf. 9 Tension Rupture	80.9%	Pass
104.75 - 101.58	Pole + Reinf.	TP21.882x21.162x0.4188	Reinf. 9 Tension Rupture	87.0%	Pass
101.58 - 101.33	Pole	TP21.939x21.882x0.3125	Pole	65.6%	Pass
101.33 - 96.33	Pole	TP23.074x21.939x0.3125	Pole	70.2%	Pass
96.33 - 91.33	Pole	TP24.209x23.074x0.3125	Pole	74.0%	Pass
91.33 - 91	Pole	TP24.284x24.209x0.3125	Pole	74.3%	Pass
91 - 90.75	Pole + Reinf.	TP24.34x24.284x0.6	Reinf. 8 Tension Rupture	64.5%	Pass
90.75 - 85.75	Pole + Reinf.	TP25.475x24.34x0.5875	Reinf. 8 Tension Rupture	68.7%	Pass
85.75 - 80.75	Pole + Reinf.	TP26.61x25.475x0.5625	Reinf. 8 Tension Rupture	72.4%	Pass
80.75 - 75.75	Pole + Reinf.	TP27.745x26.61x0.55	Reinf. 8 Tension Rupture	75.8%	Pass
75.75 - 70.75	Pole + Reinf.	TP28.88x27.745x0.5438	Reinf. 8 Tension Rupture	79.6%	Pass
70.75 - 69.98	Pole + Reinf.	TP29.055x28.88x0.5313	Reinf. 3 Tension Rupture	83.7%	Pass

69.98 - 69.73	Pole + Reinf.	TP29.112x29.055x0.5313	Reinf. 3 Tension Rupture	83.9%	Pass
69.73 - 64.73	Pole + Reinf.	TP30.247x29.112x0.525	Reinf. 3 Tension Rupture	87.5%	Pass
64.73 - 63	Pole + Reinf.	TP30.64x30.247x0.5188	Reinf. 3 Tension Rupture	88.7%	Pass
63 - 62.75	Pole + Reinf.	TP30.696x30.64x0.7	Reinf. 3 Tension Rupture	68.5%	Pass
62.75 - 59.08	Pole + Reinf.	TP31.53x30.696x0.6875	Reinf. 3 Tension Rupture	70.6%	Pass
59.08 - 58.82	Pole + Reinf.	TP31.589x31.53x0.625	Reinf. 4 Tension Rupture	72.3%	Pass
58.82 - 58.67	Pole + Reinf.	TP31.623x31.589x0.625	Reinf. 4 Tension Rupture	72.3%	Pass
58.67 - 53.67	Pole + Reinf.	TP32.758x31.623x0.6125	Reinf. 4 Tension Rupture	75.0%	Pass
53.67 - 53	Pole + Reinf.	TP33.913x32.758x0.6125	Reinf. 4 Tension Rupture	75.3%	Pass
53 - 47.58	Pole + Reinf.	TP33.515x32.285x0.6375	Reinf. 2 Tension Rupture	80.0%	Pass
47.58 - 42.58	Pole + Reinf.	TP34.65x33.515x0.625	Reinf. 2 Tension Rupture	82.3%	Pass
42.58 - 39.67	Pole + Reinf.	TP35.311x34.65x0.6125	Reinf. 2 Tension Rupture	83.6%	Pass
39.67 - 39.42	Pole + Reinf.	TP35.368x35.311x0.8125	Reinf. 2 Tension Rupture	64.9%	Pass
39.42 - 34.42	Pole + Reinf.	TP36.503x35.368x0.7875	Reinf. 2 Tension Rupture	66.8%	Pass
34.42 - 32.5	Pole + Reinf.	TP36.939x36.503x0.7875	Reinf. 2 Tension Rupture	67.5%	Pass
32.5 - 32.25	Pole + Reinf.	TP36.995x36.939x0.6125	Reinf. 5 Tension Rupture	83.4%	Pass
32.25 - 31.42	Pole + Reinf.	TP37.184x36.995x0.6	Reinf. 5 Tension Rupture	83.8%	Pass
31.42 - 31.17	Pole + Reinf.	TP37.241x37.184x0.775	Reinf. 1 Tension Rupture	67.9%	Pass
31.17 - 29	Pole + Reinf.	TP37.733x37.241x0.7625	Reinf. 1 Tension Rupture	68.7%	Pass
29 - 28.65	Pole + Reinf.	TP37.813x37.733x0.675	Reinf. 1 Tension Rupture	81.8%	Pass
28.65 - 28.42	Pole + Reinf.	TP37.865x37.813x0.675	Reinf. 1 Tension Rupture	81.8%	Pass
28.42 - 23.5	Pole + Reinf.	TP38.982x37.865x0.6625	Reinf. 1 Tension Rupture	83.5%	Pass
23.5 - 23.25	Pole + Reinf.	TP39.039x38.982x0.7875	Reinf. 1 Tension Rupture	68.3%	Pass
23.25 - 23	Pole + Reinf.	TP39.095x39.039x0.7875	Reinf. 1 Tension Rupture	68.4%	Pass
23 - 22.75	Pole + Reinf.	TP39.152x39.095x0.65	Reinf. 1 Tension Rupture	83.1%	Pass
22.75 - 17.75	Pole + Reinf.	TP40.287x39.152x0.6375	Reinf. 1 Tension Rupture	84.7%	Pass
17.75 - 12.75	Pole + Reinf.	TP41.422x40.287x0.625	Reinf. 1 Tension Rupture	86.2%	Pass
12.75 - 7.75	Pole + Reinf.	TP42.558x41.422x0.6125	Reinf. 1 Tension Rupture	87.5%	Pass
7.75 - 2.75	Pole + Reinf.	TP43.693x42.558x0.6	Reinf. 1 Tension Rupture	88.8%	Pass
2.75 - 0	Pole + Reinf.	TP44.317x43.693x0.6	Reinf. 1 Tension Rupture	89.5%	Pass
				Summary	
			Pole	78.2%	Pass
			Reinforcement	89.5%	Pass
			Overall	89.5%	Pass

**Table 5 - Tower Component Stresses vs. Capacity - LC5**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Bolts	101.58	94.3	Pass
	Flange Plates		60.1	Pass
1	Anchor Rods	0	74.5	Pass
	Base Plate		61.3	Pass
1	Base Foundation Structure	0	58.0	Pass
	Base Foundation Soil Interaction		75.1	Pass

<b>Structure Rating (max from all components) =</b>	<b>94.3%</b>
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Notes:

- 1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity consumed.

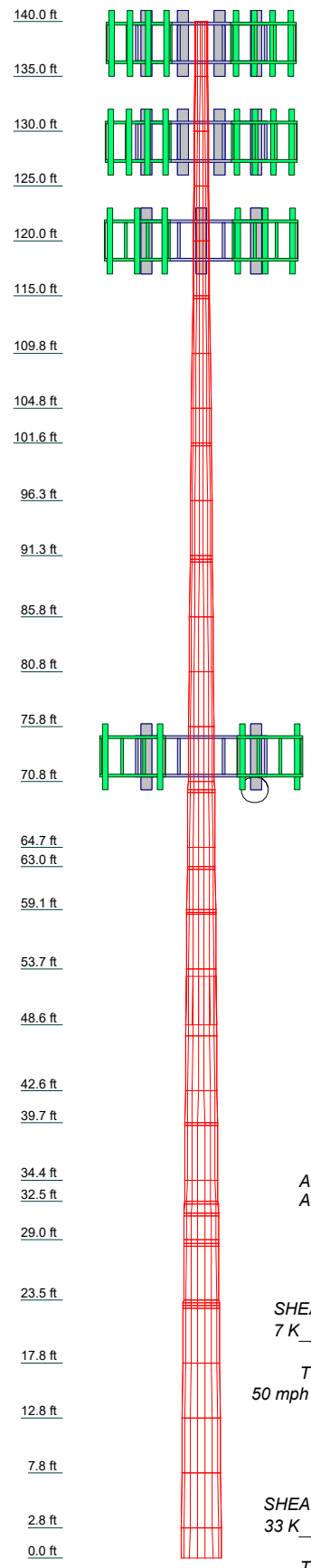
**4.1) Recommendations**

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



**APPENDIX A**  
**TNXTOWER OUTPUT**

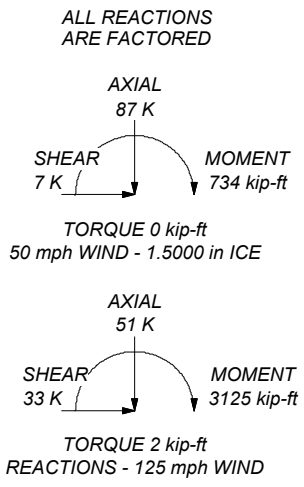
Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.0000	18	0.1875	13.1610	15.4309	14.2960	0.1	0.1
2	5.0000	18	0.1875	16.5659	15.4309	14.2960	0.1	0.1
3	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
4	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
5	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
6	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
7	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
8	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
9	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
10	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
11	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
12	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
13	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
14	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
15	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
16	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
17	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
18	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
19	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
20	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
21	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
22	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
23	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
24	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
25	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
26	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
27	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
28	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
29	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
30	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
31	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
32	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
33	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
34	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
35	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
36	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
37	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
38	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
39	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
40	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
41	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
42	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
43	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
44	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
45	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
46	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
47	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
48	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1
49	5.0000	18	0.1875	17.7008	16.5659	15.4309	0.1	0.1




### MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

- ### TOWER DESIGN NOTES
1. Tower is located in Fairfield County, Connecticut.
  2. Tower designed for Exposure B to the TIA-222-H Standard.
  3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
  4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
  5. Deflections are based upon a 60 mph wind.
  6. Tower Risk Category II.
  7. Topographic Category 1 with Crest Height of 0.0000 ft
  8. TOWER RATING: 89.5%



 <b>CROWN CASTLE</b> The Pathway to Possible	<b>Crown Castle</b> 2000 Corporate Drive Canonsburg, PA 15317 Phone: (724) 416-2000 FAX:		Job: <b>BU# 842873</b>		
	Project:			Drawn by: NCvetic	
	Client: Crown Castle		Date: 04/09/20		App'd:
	Code: TIA-222-H		Scale: NTS		Dwg No. E-1
	Path: R:\ISA Models - Letters\Work Area\NCvetic\WIP\842873 WO 1839222\842873 Mod.en				

## Tower Input Data

The tower is a monopole.  
 This tower is designed using the TIA-222-H standard.  
 The following design criteria apply:

- 3) Tower is located in Fairfield County, Connecticut.
- 4) Tower base elevation above sea level: 311.0000 ft.
- 5) Basic wind speed of 125 mph.
- 6) Risk Category II.
- 7) Exposure Category B.
- 8) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- 9) Topographic Category: 1.
- 10) Crest Height: 0.0000 ft.
- 11) Nominal ice thickness of 1.5000 in.
- 12) Ice thickness is considered to increase with height.
- 13) Ice density of 56.0000 pcf.
- 14) A wind speed of 50 mph is used in combination with ice.
- 15) Temperature drop of 50.0000 °F.
- 16) Deflections calculated using a wind speed of 60 mph.
- 17) TOWER RATING: 89.5%.
- 18) A non-linear (P-delta) analysis was used.
- 19) Pressures are calculated at each section.
- 20) Stress ratio used in pole design is 1.05.
- 21) Tower analysis based on target reliabilities in accordance with Annex S.
- 22) Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .
- 23) 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 ✓ Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area Use Clear Spans For KL/r 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 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  <div style="text-align: center; background-color: #e0e0e0; padding: 2px;"><b>Poles</b></div> ✓ 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
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## Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	140.0000-135.0000	5.0000	0.0000	18	13.1610	14.2960	0.1875	0.7500	A572-65 (65 ksi)
L2	135.0000-130.0000	5.0000	0.0000	18	14.2960	15.4309	0.1875	0.7500	A572-65 (65 ksi)
L3	130.0000-125.0000	5.0000	0.0000	18	15.4309	16.5659	0.1875	0.7500	A572-65 (65 ksi)
L4	125.0000-120.0000	5.0000	0.0000	18	16.5659	17.7008	0.1875	0.7500	A572-65 (65 ksi)
L5	120.0000-115.0000	5.0000	0.0000	18	17.7008	18.8358	0.1875	0.7500	A572-65 (65 ksi)
L6	115.0000-114.7500	0.2500	0.0000	18	18.8358	18.8925	0.4625	1.8500	A572-65 (65 ksi)
L7	114.7500-109.7500	5.0000	0.0000	18	18.8925	20.0275	0.4500	1.8000	A572-65 (65 ksi)
L8	109.7500-104.7500	5.0000	0.0000	18	20.0275	21.1624	0.4250	1.7000	A572-65 (65 ksi)
L9	104.7500-101.5800	3.1700	0.0000	18	21.1624	21.8820	0.4188	1.6750	A572-65 (65 ksi)
L10	101.5800-101.3300	0.2500	0.0000	18	21.8820	21.9387	0.3125	1.2500	A572-65 (65 ksi)
L11	101.3300-96.3300	5.0000	0.0000	18	21.9387	23.0738	0.3125	1.2500	A572-65 (65 ksi)
L12	96.3300-91.3300	5.0000	0.0000	18	23.0738	24.2087	0.3125	1.2500	A572-65 (65 ksi)
L13	91.3300-91.0000	0.3300	0.0000	18	24.2087	24.2837	0.3125	1.2500	A572-65 (65 ksi)
L14	91.0000-90.7500	0.2500	0.0000	18	24.2837	24.3404	0.6000	2.4000	A572-65 (65 ksi)
L15	90.7500-85.7500	5.0000	0.0000	18	24.3404	25.4754	0.5875	2.3500	A572-65 (65 ksi)
L16	85.7500-80.7500	5.0000	0.0000	18	25.4754	26.6104	0.5625	2.2500	A572-65 (65 ksi)
L17	80.7500-75.7500	5.0000	0.0000	18	26.6104	27.7454	0.5500	2.2000	A572-65 (65 ksi)
L18	75.7500-70.7500	5.0000	0.0000	18	27.7454	28.8804	0.5437	2.1750	A572-65 (65 ksi)
L19	70.7500-69.9800	0.7700	0.0000	18	28.8804	29.0552	0.5313	2.1250	A572-65 (65 ksi)
L20	69.9800-69.7300	0.2500	0.0000	18	29.0552	29.1120	0.5313	2.1250	A572-65 (65 ksi)
L21	69.7300-64.7300	5.0000	0.0000	18	29.1120	30.2469	0.5250	2.1000	A572-65 (65 ksi)
L22	64.7300-63.0000	1.7300	0.0000	18	30.2469	30.6397	0.5188	2.0750	A572-65 (65 ksi)
L23	63.0000-62.7500	0.2500	0.0000	18	30.6397	30.6964	0.7000	2.8000	A572-65 (65 ksi)
L24	62.7500-59.0800	3.6700	0.0000	18	30.6964	31.5295	0.6875	2.7500	A572-65 (65 ksi)
L25	59.0800-58.8200	0.2600	0.0000	18	31.5295	31.5885	0.6250	2.5000	A572-65 (65 ksi)
L26	58.8200-58.6700	0.1500	0.0000	18	31.5885	31.6226	0.6250	2.5000	A572-65 (65 ksi)
L27	58.6700-53.6700	5.0000	0.0000	18	31.6226	32.7576	0.6125	2.4500	A572-65 (65 ksi)
L28	53.6700-48.5800	5.0900	4.4200	18	32.7576	33.9130	0.6125	2.4500	A572-65 (65 ksi)
L29	48.5800-47.5800	5.4200	0.0000	18	32.2847	33.5151	0.6375	2.5500	A572-65 (65 ksi)
L30	47.5800-42.5800	5.0000	0.0000	18	33.5151	34.6503	0.6250	2.5000	A572-65 (65 ksi)
L31	42.5800-39.6700	2.9100	0.0000	18	34.6503	35.3109	0.6125	2.4500	A572-65 (65 ksi)
L32	39.6700-39.4200	0.2500	0.0000	18	35.3109	35.3677	0.8125	3.2500	A572-65 (65 ksi)
L33	39.4200-34.4200	5.0000	0.0000	18	35.3677	36.5028	0.7875	3.1500	A572-65 (65 ksi)
L34	34.4200-32.5000	1.9200	0.0000	18	36.5028	36.9387	0.7875	3.1500	A572-65 (65 ksi)
L35	32.5000-	0.2500	0.0000	18	36.9387	36.9954	0.6125	2.4500	A572-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L36	32.2500 32.2500- 31.4200	0.8300	0.0000	18	36.9954	37.1839	0.6000	2.4000	(65 ksi) A572-65
L37	31.4200- 31.1700	0.2500	0.0000	18	37.1839	37.2406	0.7750	3.1000	(65 ksi) A572-65
L38	31.1700- 29.0000	2.1700	0.0000	18	37.2406	37.7333	0.7625	3.0500	(65 ksi) A572-65
L39	29.0000- 28.6500	0.3500	0.0000	18	37.7333	37.8127	0.6750	2.7000	(65 ksi) A572-65
L40	28.6500- 28.4200	0.2300	0.0000	18	37.8127	37.8649	0.6750	2.7000	(65 ksi) A572-65
L41	28.4200- 23.5000	4.9200	0.0000	18	37.8649	38.9819	0.6625	2.6500	(65 ksi) A572-65
L42	23.5000- 23.2500	0.2500	0.0000	18	38.9819	39.0387	0.7875	3.1500	(65 ksi) A572-65
L43	23.2500- 23.0000	0.2500	0.0000	18	39.0387	39.0954	0.7875	3.1500	(65 ksi) A572-65
L44	23.0000- 22.7500	0.2500	0.0000	18	39.0954	39.1522	0.6500	2.6000	(65 ksi) A572-65
L45	22.7500- 17.7500	5.0000	0.0000	18	39.1522	40.2873	0.6375	2.5500	(65 ksi) A572-65
L46	17.7500- 12.7500	5.0000	0.0000	18	40.2873	41.4224	0.6250	2.5000	(65 ksi) A572-65
L47	12.7500- 7.7500	5.0000	0.0000	18	41.4224	42.5576	0.6125	2.4500	(65 ksi) A572-65
L48	7.7500-2.7500	5.0000	0.0000	18	42.5576	43.6927	0.6000	2.4000	(65 ksi) A572-65
L49	2.7500-0.0000	2.7500		18	43.6927	44.3170	0.6000	2.4000	(65 ksi) A572-65

### Tapered Pole Properties

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L1	13.3351 14.4876	7.7209 8.3963	164.1788 211.1466	4.6056 5.0085	6.6858 7.2623	24.5564 29.0742	328.5737 422.5710	3.8612 4.1989	1.9863 2.1861	10.594 11.659
L2	14.4876 15.6400	8.3963 9.0717	211.1466 266.3129	5.0085 5.4114	7.2623 7.8389	29.0742 33.9732	422.5710 532.9762	4.1989 4.5367	2.1861 2.3858	11.659 12.724
L3	15.6400 16.7925	9.0717 9.7472	266.3129 330.3372	5.4114 5.8143	7.8389 8.4155	33.9732 39.2536	532.9762 661.1090	4.5367 4.8745	2.3858 2.5856	12.724 13.79
L4	16.7925 17.9450	9.7472 10.4226	330.3372 403.8790	5.8143 6.2172	8.4155 8.9920	39.2536 44.9153	661.1090 808.2895	4.8745 5.2123	2.5856 2.7853	13.79 14.855
L5	17.9450 19.0974	10.4226 11.0981	403.8790 487.5980	6.2172 6.6201	8.9920 9.5686	44.9153 50.9583	808.2895 975.8376	5.2123 5.5501	2.7853 2.9851	14.855 15.921
L6	19.0974 19.0550	11.0981 26.9715	487.5980 1150.3132	6.6201 6.5225	9.5686 9.5686	50.9583 120.2178	975.8376 2302.1401	5.5501 13.4883	2.9851 2.5011	15.921 5.408
L7	19.0550 19.1126	26.9715 27.0548	1150.3132 1161.0048	6.5225 6.5427	9.5686 9.5974	120.2178 120.9707	2302.1401 2323.5373	13.4883 13.5300	2.5011 2.5111	5.408 5.429
L8	19.1126 19.1146	27.0548 26.3415	1161.0048 1131.9264	6.5427 6.5471	9.5974 9.5974	120.9707 117.9409	2323.5373 2265.3421	13.5300 13.1732	2.5111 2.5331	5.429 5.629
L9	19.1146 20.2670	26.3415 27.9625	1131.9264 1354.0272	6.5471 6.9500	9.5974 10.1740	117.9409 133.0875	2265.3421 2709.8360	13.1732 13.9839	2.5331 2.7328	5.629 6.073
L10	20.2670 20.2709	27.9625 26.4428	1354.0272 1283.7087	6.9500 6.9589	10.1740 10.1740	133.0875 126.1759	2709.8360 2569.1066	13.9839 13.2239	2.7328 2.7768	6.073 6.534
L11	20.2709 21.4233	26.4428 27.9738	1283.7087 1519.8426	6.9589 7.3618	10.1740 10.7505	126.1759 141.3739	2569.1066 3041.6850	13.2239 13.9895	2.7768 2.9766	6.534 7.004
L12	21.4233 21.4243	27.9738 27.5707	1519.8426 1498.8463	7.3618 7.3640	10.7505 10.7505	141.3739 139.4208	3041.6850 2999.6649	13.9895 13.7880	2.9766 2.9876	7.004 7.135
L13	21.4243 22.1550	27.5707 28.5271	1498.8463 1660.2965	7.3640 7.6195	10.7505 11.1161	139.4208 149.3602	2999.6649 3322.7776	13.7880 14.2662	2.9876 3.1142	7.135 7.437
L14	22.1550 22.1714	28.5271 21.3942	1660.2965 1257.5192	7.6195 7.6572	11.1161 11.1161	149.3602 113.1264	3322.7776 2516.6931	14.2662 10.6992	3.1142 3.3012	7.437 10.564
L15	22.1714 22.2290	21.3942 21.4505	1257.5192 1267.4711	7.6572 7.6773	11.1161 11.1449	113.1264 113.7267	2516.6931 2536.6099	10.6992 10.7273	3.3012 3.3112	10.564 10.596
L16	22.2290 23.3815	21.4505 22.5763	1267.4711 1477.6879	7.6773 8.0802	11.1449 11.7215	113.7267 126.0668	2536.6099 2957.3202	10.7273 11.2903	3.3112 3.5110	10.596 11.235
L17	23.3815 24.5340	22.5763 23.7021	1477.6879 1709.9510	8.0802 8.4832	11.7215 12.2980	126.0668 139.0425	2957.3202 3422.1519	11.2903 11.8533	3.5110 3.7107	11.235 11.874
L18	24.5340 24.5340	23.7021 23.7021	1709.9510 1709.9510	8.4832 8.4832	12.2980 12.2980	139.0425 139.0425	3422.1519 3422.1519	11.8533 11.8533	3.7107 3.7107	11.874 11.874
L19	24.5340 24.6101	23.7021 23.7764	1709.9510 1726.0825	8.4832 8.5098	12.2980 12.3361	139.0425 139.9213	3422.1519 3454.4362	11.8533 11.8905	3.7107 3.7239	11.874 11.917
L20	24.6101 24.5657	23.7764 45.1032	1726.0825 3196.2598	8.5098 8.4077	12.3361 12.3361	139.9213 259.0981	3454.4362 6396.7254	11.8905 22.5559	3.7239 3.2179	11.917 5.363
L21	24.5657 24.6233	45.1032 45.2112	3196.2598 3219.2912	8.4077 8.4278	12.3361 12.3649	259.0981 260.3566	6396.7254 6442.8185	22.5559 22.6099	3.2179 3.2279	5.363 5.38
L22	24.6233 24.6253	45.2112 44.2926	3219.2912 3157.2045	8.4278 8.4323	12.3649 12.3649	260.3566 255.3354	6442.8185 6318.5633	22.6099 22.1505	3.2279 3.2499	5.38 5.532
L23	24.6253 25.7778	44.2926 46.4091	3157.2045 3631.7632	8.4323 8.8352	12.3649 12.9415	255.3354 280.6291	6318.5633 7268.3052	22.1505 23.2090	3.2499 3.4497	5.532 5.872
L24	25.7778 25.7816	46.4091 44.4789	3631.7632 3487.7093	8.8352 8.8441	12.9415 12.9415	280.6291 269.4979	7268.3052 6980.0078	23.2090 22.2437	3.4497 3.4937	5.872 6.211

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L17	26.9341	46.5053	3986.4429	9.2470	13.5181	294.8969	7978.1313	23.2571	3.6934	6.566
	26.9361	45.4937	3903.4695	9.2514	13.5181	288.7590	7812.0754	22.7512	3.7154	6.755
	28.0886	47.4750	4436.0241	9.6544	14.0947	314.7306	8877.8852	23.7420	3.9152	7.119
L18	28.0895	46.9463	4388.6391	9.6566	14.0947	311.3687	8783.0529	23.4776	3.9262	7.221
	29.2421	48.9052	4961.2330	10.0595	14.6712	338.1602	9928.9940	24.4572	4.1260	7.588
L19	29.2440	47.8020	4853.5991	10.0640	14.6712	330.8239	9713.5847	23.9055	4.1480	7.808
	29.4215	48.0967	4943.9300	10.1260	14.7600	334.9537	9894.3654	24.0529	4.1787	7.866
L20	29.4215	48.0967	4943.9300	10.1260	14.7600	334.9537	9894.3654	24.0529	4.1787	7.866
	29.4791	48.1924	4973.4975	10.1461	14.7889	336.3000	9953.5392	24.1008	4.1887	7.885
L21	29.4801	47.6359	4918.2108	10.1484	14.7889	332.5616	9842.8932	23.8225	4.1997	7.999
	30.6326	49.5272	5527.5868	10.5513	15.3655	359.7413	11062.447	24.7683	4.3995	8.38
L22	30.6335	48.9479	5465.2285	10.5535	15.3655	355.6829	10937.648	24.4786	4.4105	8.502
	31.0323	49.5945	5684.6895	10.6929	15.5649	365.2238	11376.859	24.8019	4.4796	8.635
L23	31.0043	66.5199	7533.2608	10.6286	15.5649	483.9888	15076.434	33.2663	4.1606	5.944
	31.0620	66.6460	7576.1795	10.6487	15.5938	485.8464	15162.327	33.3293	4.1706	5.958
L24	31.0639	65.4832	7450.1967	10.6532	15.5938	477.7673	14910.196	32.7478	4.1926	6.098
	31.9098	67.3011	8088.0658	10.9489	16.0170	504.9680	16186.774	33.6569	4.3392	6.312
L25	31.9195	61.3068	7397.5780	10.9711	16.0170	461.8583	14804.890	30.6592	4.4492	7.119
	31.9794	61.4239	7440.0417	10.9920	16.0470	463.6416	14889.873	30.7178	4.4596	7.135
L26	31.9794	61.4239	7440.0417	10.9920	16.0470	463.6416	14889.873	30.7178	4.4596	7.135
	32.0140	61.4914	7464.6137	11.0041	16.0643	464.6720	14939.049	30.7516	4.4656	7.145
L27	32.0159	60.2859	7324.1749	11.0086	16.0643	455.9296	14657.987	30.1487	4.4876	7.327
	33.1684	62.4924	8158.1858	11.4115	16.6408	490.2507	16327.106	31.2522	4.6873	7.653
L28	33.1684	62.4924	8158.1858	11.4115	16.6408	490.2507	16327.106	31.2522	4.6873	7.653
	34.3417	64.7387	9069.9048	11.8217	17.2278	526.4690	18151.744	32.3755	4.8907	7.985
L29	33.7033	64.0357	8102.6819	11.2347	16.4006	494.0477	16216.025	32.0239	4.5601	7.153
	33.9338	66.5254	9085.0297	11.6716	17.0257	533.6071	18182.013	33.2690	4.7767	7.493
L30	33.9357	65.2458	8917.0548	11.6760	17.0257	523.7412	17845.843	32.6291	4.7987	7.678
	35.0884	67.4976	9872.5391	12.0790	17.6023	560.8654	19758.068	33.7552	4.9984	7.998
L31	35.0903	66.1720	9685.7554	12.0834	17.6023	550.2541	19384.255	33.0923	5.0204	8.197
	35.7611	67.4563	10260.749	12.3179	17.9379	572.0138	20534.999	33.7346	5.1367	8.386
L32	35.7303	88.9671	13377.189	12.2469	17.9379	745.7483	26771.980	44.4920	4.7847	5.889
	35.7879	89.1134	13443.321	12.2671	17.9668	748.2324	26904.331	44.5652	4.7947	5.901
L33	35.7918	86.4340	13057.981	12.2760	17.9668	726.7850	26133.144	43.2252	4.8387	6.144
	36.9444	89.2713	14386.577	12.6789	18.5434	775.8320	28792.084	44.6441	5.0385	6.398
L34	36.9444	89.2713	14386.577	12.6789	18.5434	775.8320	28792.084	44.6441	5.0385	6.398
	37.3870	90.3608	14919.775	12.8337	18.7648	795.0917	29859.183	45.1890	5.1152	6.496
L35	37.4140	70.6208	11773.608	12.8958	18.7648	627.4289	23562.708	35.3171	5.4232	8.854
	37.4717	70.7312	11828.880	12.9159	18.7937	629.4073	23673.326	35.3723	5.4332	8.871
L36	37.4736	69.3115	11599.422	12.9204	18.7937	617.1980	23214.107	34.6623	5.4552	9.092

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
	37.6649	69.6703	11780.518	12.9873	18.8894	623.6575	23576.538	34.8418	5.4884	9.147
L37	37.6379	89.5603	14999.180	12.9251	18.8894	794.0526	30018.097	44.7887	5.1804	6.684
	37.6956	89.7000	15069.434	12.9453	18.9182	796.5560	30158.697	44.8585	5.1903	6.697
L38	37.6975	88.2834	14841.631	12.9497	18.9182	784.5145	29702.791	44.1501	5.2123	6.836
	38.1977	89.4757	15451.107	13.1246	19.1685	806.0676	30922.545	44.7464	5.2991	6.95
L39	38.2112	79.3955	13775.376	13.1557	19.1685	718.6465	27568.878	39.7053	5.4531	8.079
	38.2919	79.5657	13864.176	13.1839	19.2089	721.7593	27746.595	39.7904	5.4670	8.099
L40	38.2919	79.5657	13864.176	13.1839	19.2089	721.7593	27746.595	39.7904	5.4670	8.099
	38.3449	79.6776	13922.736	13.2024	19.2354	723.8084	27863.793	39.8464	5.4762	8.113
L41	38.3469	78.2284	13678.691	13.2069	19.2354	711.1211	27375.382	39.1216	5.4982	8.299
	39.4811	80.5771	14948.119	13.6034	19.8028	754.8485	29915.908	40.2962	5.6948	8.596
L42	39.4618	95.4679	17595.200	13.5590	19.8028	888.5205	35213.552	47.7430	5.4748	6.952
	39.5194	95.6097	17673.755	13.5792	19.8316	891.1898	35370.765	47.8140	5.4848	6.965
L43	39.5194	95.6097	17673.755	13.5792	19.8316	891.1898	35370.765	47.8140	5.4848	6.965
	39.5770	95.7516	17752.543	13.5993	19.8605	893.8631	35528.446	47.8849	5.4948	6.978
L44	39.5983	79.3167	14811.242	13.6481	19.8605	745.7649	29641.973	39.6659	5.7368	8.826
	39.6559	79.4338	14876.936	13.6683	19.8893	747.9868	29773.449	39.7245	5.7468	8.841
L45	39.6578	77.9316	14605.057	13.6727	19.8893	734.3171	29229.332	38.9732	5.7688	9.049
	40.8105	80.2284	15934.836	14.0757	20.4659	778.6024	31890.639	40.1218	5.9686	9.362
L46	40.8124	78.6801	15637.168	14.0801	20.4659	764.0578	31294.912	39.3475	5.9906	9.585
	41.9650	80.9319	17018.557	14.4831	21.0426	808.7671	34059.508	40.4736	6.1903	9.905
L47	41.9669	79.3376	16693.521	14.4875	21.0426	793.3205	33409.008	39.6763	6.2123	10.143
	43.1196	81.5443	18125.614	14.8905	21.6192	838.4021	36275.079	40.7799	6.4121	10.469
L48	43.1215	79.9040	17771.582	14.8949	21.6192	822.0263	35566.549	39.9596	6.4341	10.724
	44.2742	82.0657	19253.342	15.2979	22.1959	867.4286	38532.019	41.0406	6.6339	11.057
L49	44.2742	82.0657	19253.342	15.2979	22.1959	867.4286	38532.019	41.0406	6.6339	11.057
	44.9081	83.2547	20102.343	15.5195	22.5130	892.9201	40231.137	41.6352	6.7438	11.24

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A <sub>r</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in
L1 140.0000-135.0000				1	1	1			
L2 135.0000-130.0000				1	1	1			
L3 130.0000-125.0000				1	1	1			
L4 125.0000-120.0000				1	1	1			
L5 120.0000-				1	1	1			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_r$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft <sup>2</sup>	in							
115.0000									
L6 115.0000-114.7500				1	1	0.910459			
L7 114.7500-109.7500				1	1	0.90506			
L8 109.7500-104.7500				1	1	0.928842			
L9 104.7500-101.5800				1	1	0.925837			
L10 101.5800-101.3300				1	1	1			
L11 101.3300-96.3300				1	1	1			
L12 96.3300-91.3300				1	1	1			
L13 91.3300-91.0000				1	1	1			
L14 91.0000-90.7500				1	1	0.925286			
L15 90.7500-85.7500				1	1	0.925661			
L16 85.7500-80.7500				1	1	0.947954			
L17 80.7500-75.7500				1	1	0.952304			
L18 75.7500-70.7500				1	1	0.947475			
L19 70.7500-69.9800				1	1	0.951412			
L20 69.9800-69.7300				1	1	0.950691			
L21 69.7300-64.7300				1	1	0.9478			
L22 64.7300-63.0000				1	1	0.954368			
L23 63.0000-62.7500				1	1	0.981128			
L24 62.7500-59.0800				1	1	0.983857			
L25 59.0800-58.8200				1	1	0.999823			
L26 58.8200-58.6700				1	1	0.999274			
L27 58.6700-53.6700				1	1	1.00128			
L28 53.6700-48.5800				1	1	0.99897			
L29 48.5800-47.5800				1	1	0.940602			
L30 47.5800-42.5800				1	1	0.943735			
L31 42.5800-39.6700				1	1	0.954027			
L32 39.6700-39.4200				1	1	0.924799			
L33 39.4200-34.4200				1	1	0.935777			
L34 34.4200-32.5000				1	1	0.929278			
L35 32.5000-32.2500				1	1	0.944082			
L36 32.2500-31.4200				1	1	0.961139			
L37 31.4200-31.1700				1	1	0.939463			



Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_r$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in
L38 31.1700-29.0000				1	1	0.947279			
L39 29.0000-28.6500				1	1	0.990842			
L40 28.6500-28.4200				1	1	0.990101			
L41 28.4200-23.5000				1	1	0.992797			
L42 23.5000-23.2500				1	1	1.02556			
L43 23.2500-23.0000				1	1	1.02463			
L44 23.0000-22.7500				1	1	1.08475			
L45 22.7500-17.7500				1	1	1.08804			
L46 17.7500-12.7500				1	1	1.09249			
L47 12.7500-7.7500				1	1	1.0981			
L48 7.7500-2.7500				1	1	1.10484			
L49 2.7500-0.0000				1	1	1.0965			

**Feed Line/Linear Appurtenances - Entered As Round Or Flat**

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
5.75" x 1" Flat Plate (G)	A	No	Surface Af (CaAa)	33.3300 - 0.5000	1	1	0.500 0.500	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	B	No	Surface Af (CaAa)	33.3300 - 0.5000	1	1	0.500 0.500	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	C	No	Surface Af (CaAa)	33.3300 - 0.5000	1	1	0.500 0.500	5.7500	13.5000	0.0000
**										
5.75" x 1" Flat Plate (G)	A	No	Surface Af (CaAa)	50.5800 - 30.5800	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	B	No	Surface Af (CaAa)	50.5800 - 30.5800	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	C	No	Surface Af (CaAa)	50.5800 - 30.5800	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
**										
5.75" x 1" Flat Plate (G)	A	No	Surface Af (CaAa)	72.0000 - 57.0000	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	B	No	Surface Af (CaAa)	72.0000 - 57.0000	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	C	No	Surface Af (CaAa)	72.0000 - 57.0000	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
**										
MP3-04	A	No	Surface Af (CaAa)	60.5000 - 0.5000	1	1	0.000 0.000	4.7800	12.7800	0.0000
MP3-04	B	No	Surface Af (CaAa)	60.5000 - 0.5000	1	1	0.000 0.000	4.7800	12.7800	0.0000
MP3-04	C	No	Surface Af (CaAa)	60.5000 - 0.5000	1	1	0.000 0.000	4.7800	12.7800	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	41.6700 - 26.6700	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	B	No	Surface Af (CaAa)	41.6700 - 26.6700	1	1	0.000 0.000	6.0000	14.0000	0.0000

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
CCI-65FP-060100	C	No	Surface Af (CaAa)	41.6700 - 26.6700	1	1	0.000 0.000	6.0000	14.0000	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	25.5000 - 0.5000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	B	No	Surface Af (CaAa)	25.5000 - 0.5000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	C	No	Surface Af (CaAa)	25.5000 - 0.5000	1	1	0.000 0.000	6.0000	14.0000	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	65.0000 - 50.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	B	No	Surface Af (CaAa)	65.0000 - 50.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	C	No	Surface Af (CaAa)	65.0000 - 50.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	93.0000 - 68.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	B	No	Surface Af (CaAa)	93.0000 - 68.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	C	No	Surface Af (CaAa)	93.0000 - 68.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
**										
CCI-65FP-045100	A	No	Surface Af (CaAa)	117.0000 - 102.0000	1	1	0.300 0.300	4.5000	11.0000	0.0000
CCI-65FP-045100	B	No	Surface Af (CaAa)	117.0000 - 102.0000	1	1	0.300 0.300	4.5000	11.0000	0.0000
CCI-65FP-045100	C	No	Surface Af (CaAa)	117.0000 - 102.0000	1	1	0.300 0.300	4.5000	11.0000	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	31.0000 - 21.0000	1	1	-0.200 -0.200	6.0000	14.0000	0.0000
CCI-65FP-060100	C	No	Surface Af (CaAa)	31.0000 - 21.0000	1	1	-0.200 -0.200	6.0000	14.0000	0.0000
**										
**										
HB158-1-08U8-S8J18(1-5/8)	B	No	Surface Ar (CaAa)	138.0000 - 0.0000	1	1	0.340 0.360	1.9800		1.3000
**										
LDF7-50A(1-5/8)	B	No	Surface Ar (CaAa)	120.0000 - 0.0000	18	6	-0.100 0.100	1.9800		0.8200
**										

**Feed Line/Linear Appurtenances - Entered As Area**

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>A</sub> A <sub>A</sub> ft <sup>2</sup> /ft	Weight plf
**									
**									
**									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	138.0000 - 0.0000	13	No Ice 1/2" Ice 1" Ice 2" Ice	0.0000 0.0000 0.0000 0.0000	0.8200 0.8200 0.8200 0.8200
**									
AVA6-50(1-1/4)	C	No	No	Inside Pole	138.0000 - 0.0000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.0000 0.0000 0.0000 0.0000	0.4600 0.4600 0.4600 0.4600
**									
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	129.0000 - 0.0000	2	No Ice 1/2" Ice	0.0000 0.0000	0.5840 0.5840

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>AA</sub> ft <sup>2</sup> /ft	Weight plf
FB-L98B-034-XXXXXX(3/8)	C	No	No	Inside Pole	129.0000 - 0.0000	2	1" Ice	0.0000	0.5840
							2" Ice	0.0000	0.5840
							No Ice	0.0000	0.0500
							1/2" Ice	0.0000	0.0500
							1" Ice	0.0000	0.0500
WR-VG66ST-BRD_CCIV2(7/8)	C	No	No	Inside Pole	129.0000 - 0.0000	4	2" Ice	0.0000	0.0500
							No Ice	0.0000	0.8800
							1/2" Ice	0.0000	0.8800
							1" Ice	0.0000	0.8800
							2" Ice	0.0000	0.8800
AL7-50(1-5/8)	C	No	No	Inside Pole	129.0000 - 0.0000	6	No Ice	0.0000	0.5200
							1/2" Ice	0.0000	0.5200
							1" Ice	0.0000	0.5200
							2" Ice	0.0000	0.5200
							**		
HB158-21U6M48-30F(1-5/8)	C	No	No	Inside Pole	73.0000 - 0.0000	4	No Ice	0.0000	2.3900
							1/2" Ice	0.0000	2.3900
							1" Ice	0.0000	2.3900
							2" Ice	0.0000	2.3900
LDF4-50A(1/2)	C	No	No	Inside Pole	50.0000 - 0.0000	1	No Ice	0.0000	0.1500
							1/2" Ice	0.0000	0.1500
							1" Ice	0.0000	0.1500
							2" Ice	0.0000	0.1500
**									

**Feed Line/Linear Appurtenances Section Areas**

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L1	140.0000-135.0000	A	0.000	0.000	0.000	0.000	0.0000
		B	0.000	0.000	0.594	0.000	0.0039
		C	0.000	0.000	0.000	0.000	0.0347
L2	135.0000-130.0000	A	0.000	0.000	0.000	0.000	0.0000
		B	0.000	0.000	0.990	0.000	0.0065
		C	0.000	0.000	0.000	0.000	0.0579
L3	130.0000-125.0000	A	0.000	0.000	0.000	0.000	0.0000
		B	0.000	0.000	0.990	0.000	0.0065
		C	0.000	0.000	0.000	0.000	0.0895
L4	125.0000-120.0000	A	0.000	0.000	0.000	0.000	0.0000
		B	0.000	0.000	0.990	0.000	0.0065
		C	0.000	0.000	0.000	0.000	0.0974
L5	120.0000-115.0000	A	0.000	0.000	1.500	0.000	0.0000
		B	0.000	0.000	8.430	0.000	0.0803
		C	0.000	0.000	1.500	0.000	0.0974
L6	115.0000-114.7500	A	0.000	0.000	0.188	0.000	0.0000
		B	0.000	0.000	0.534	0.000	0.0040
		C	0.000	0.000	0.188	0.000	0.0049
L7	114.7500-109.7500	A	0.000	0.000	3.750	0.000	0.0000
		B	0.000	0.000	10.680	0.000	0.0803
		C	0.000	0.000	3.750	0.000	0.0974
L8	109.7500-104.7500	A	0.000	0.000	3.750	0.000	0.0000
		B	0.000	0.000	10.680	0.000	0.0803
		C	0.000	0.000	3.750	0.000	0.0974
L9	104.7500-101.5800	A	0.000	0.000	2.063	0.000	0.0000
		B	0.000	0.000	6.456	0.000	0.0509
		C	0.000	0.000	2.063	0.000	0.0618
L10	101.5800-101.3300	A	0.000	0.000	0.000	0.000	0.0000
		B	0.000	0.000	0.346	0.000	0.0040
		C	0.000	0.000	0.000	0.000	0.0049
L11	101.3300-96.3300	A	0.000	0.000	0.000	0.000	0.0000
		B	0.000	0.000	6.930	0.000	0.0803

Tower Sectio n	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L12	96.3300-91.3300	C	0.000	0.000	0.000	0.000	0.0974
		A	0.000	0.000	1.670	0.000	0.0000
		B	0.000	0.000	8.600	0.000	0.0803
L13	91.3300-91.0000	C	0.000	0.000	1.670	0.000	0.0974
		A	0.000	0.000	0.330	0.000	0.0000
		B	0.000	0.000	0.787	0.000	0.0053
L14	91.0000-90.7500	C	0.000	0.000	0.330	0.000	0.0064
		A	0.000	0.000	0.250	0.000	0.0000
		B	0.000	0.000	0.597	0.000	0.0040
L15	90.7500-85.7500	C	0.000	0.000	0.250	0.000	0.0049
		A	0.000	0.000	5.000	0.000	0.0000
		B	0.000	0.000	11.930	0.000	0.0803
L16	85.7500-80.7500	C	0.000	0.000	5.000	0.000	0.0974
		A	0.000	0.000	5.000	0.000	0.0000
		B	0.000	0.000	11.930	0.000	0.0803
L17	80.7500-75.7500	C	0.000	0.000	5.000	0.000	0.0974
		A	0.000	0.000	5.000	0.000	0.0000
		B	0.000	0.000	11.930	0.000	0.0803
L18	75.7500-70.7500	C	0.000	0.000	5.000	0.000	0.0974
		A	0.000	0.000	6.198	0.000	0.0000
		B	0.000	0.000	13.128	0.000	0.0803
L19	70.7500-69.9800	C	0.000	0.000	6.198	0.000	0.1189
		A	0.000	0.000	1.508	0.000	0.0000
		B	0.000	0.000	2.575	0.000	0.0124
L20	69.9800-69.7300	C	0.000	0.000	1.508	0.000	0.0224
		A	0.000	0.000	0.490	0.000	0.0000
		B	0.000	0.000	0.836	0.000	0.0040
L21	69.7300-64.7300	C	0.000	0.000	0.490	0.000	0.0073
		A	0.000	0.000	6.792	0.000	0.0000
		B	0.000	0.000	13.722	0.000	0.0803
L22	64.7300-63.0000	C	0.000	0.000	6.792	0.000	0.1452
		A	0.000	0.000	3.388	0.000	0.0000
		B	0.000	0.000	5.786	0.000	0.0278
L23	63.0000-62.7500	C	0.000	0.000	3.388	0.000	0.0503
		A	0.000	0.000	0.490	0.000	0.0000
		B	0.000	0.000	0.836	0.000	0.0040
L24	62.7500-59.0800	C	0.000	0.000	0.490	0.000	0.0073
		A	0.000	0.000	8.318	0.000	0.0000
		B	0.000	0.000	13.405	0.000	0.0589
L25	59.0800-58.8200	C	0.000	0.000	8.318	0.000	0.1066
		A	0.000	0.000	0.716	0.000	0.0000
		B	0.000	0.000	1.077	0.000	0.0042
L26	58.8200-58.6700	C	0.000	0.000	0.716	0.000	0.0076
		A	0.000	0.000	0.413	0.000	0.0000
		B	0.000	0.000	0.621	0.000	0.0024
L27	58.6700-53.6700	C	0.000	0.000	0.413	0.000	0.0044
		A	0.000	0.000	10.584	0.000	0.0000
		B	0.000	0.000	17.514	0.000	0.0803
L28	53.6700-48.5800	C	0.000	0.000	10.584	0.000	0.1452
		A	0.000	0.000	9.642	0.000	0.0000
		B	0.000	0.000	16.696	0.000	0.0817
L29	48.5800-47.5800	C	0.000	0.000	9.642	0.000	0.1481
		A	0.000	0.000	1.755	0.000	0.0000
		B	0.000	0.000	3.141	0.000	0.0161
L30	47.5800-42.5800	C	0.000	0.000	1.755	0.000	0.0292
		A	0.000	0.000	8.775	0.000	0.0000
		B	0.000	0.000	15.705	0.000	0.0803
L31	42.5800-39.6700	C	0.000	0.000	8.775	0.000	0.1460
		A	0.000	0.000	7.107	0.000	0.0000
		B	0.000	0.000	11.140	0.000	0.0467
L32	39.6700-39.4200	C	0.000	0.000	7.107	0.000	0.0850
		A	0.000	0.000	0.689	0.000	0.0000
		B	0.000	0.000	1.035	0.000	0.0040
L33	39.4200-34.4200	C	0.000	0.000	0.689	0.000	0.0073
		A	0.000	0.000	13.775	0.000	0.0000
		B	0.000	0.000	20.705	0.000	0.0803
L34	34.4200-32.5000	C	0.000	0.000	13.775	0.000	0.1460
		A	0.000	0.000	6.085	0.000	0.0000
		B	0.000	0.000	8.746	0.000	0.0308

Tower Section	Tower Elevation	Face	A <sub>R</sub>	A <sub>F</sub>	C <sub>A</sub> A <sub>A</sub> In Face	C <sub>A</sub> A <sub>A</sub> Out Face	Weight
n	ft		ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	K
L35	32.5000-32.2500	C	0.000	0.000	6.085	0.000	0.0561
		A	0.000	0.000	0.928	0.000	0.0000
		B	0.000	0.000	1.275	0.000	0.0040
L36	32.2500-31.4200	C	0.000	0.000	0.928	0.000	0.0073
		A	0.000	0.000	3.082	0.000	0.0000
		B	0.000	0.000	4.232	0.000	0.0133
L37	31.4200-31.1700	C	0.000	0.000	3.082	0.000	0.0242
		A	0.000	0.000	0.928	0.000	0.0000
		B	0.000	0.000	1.275	0.000	0.0040
L38	31.1700-29.0000	C	0.000	0.000	0.928	0.000	0.0073
		A	0.000	0.000	8.368	0.000	0.0000
		B	0.000	0.000	9.551	0.000	0.0349
L39	29.0000-28.6500	C	0.000	0.000	8.368	0.000	0.0634
		A	0.000	0.000	1.283	0.000	0.0000
		B	0.000	0.000	1.449	0.000	0.0056
L40	28.6500-28.4200	C	0.000	0.000	1.283	0.000	0.0102
		A	0.000	0.000	0.843	0.000	0.0000
		B	0.000	0.000	0.952	0.000	0.0037
L41	28.4200-23.5000	C	0.000	0.000	0.843	0.000	0.0067
		A	0.000	0.000	16.872	0.000	0.0000
		B	0.000	0.000	19.204	0.000	0.0790
L42	23.5000-23.2500	C	0.000	0.000	16.872	0.000	0.1437
		A	0.000	0.000	0.917	0.000	0.0000
		B	0.000	0.000	1.035	0.000	0.0040
L43	23.2500-23.0000	C	0.000	0.000	0.917	0.000	0.0073
		A	0.000	0.000	0.917	0.000	0.0000
		B	0.000	0.000	1.035	0.000	0.0040
L44	23.0000-22.7500	C	0.000	0.000	0.917	0.000	0.0073
		A	0.000	0.000	0.917	0.000	0.0000
		B	0.000	0.000	1.035	0.000	0.0040
L45	22.7500-17.7500	C	0.000	0.000	0.917	0.000	0.0073
		A	0.000	0.000	15.371	0.000	0.0000
		B	0.000	0.000	20.705	0.000	0.0803
L46	17.7500-12.7500	C	0.000	0.000	15.371	0.000	0.1460
		A	0.000	0.000	13.775	0.000	0.0000
		B	0.000	0.000	20.705	0.000	0.0803
L47	12.7500-7.7500	C	0.000	0.000	13.775	0.000	0.1460
		A	0.000	0.000	13.775	0.000	0.0000
		B	0.000	0.000	20.705	0.000	0.0803
L48	7.7500-2.7500	C	0.000	0.000	13.775	0.000	0.1460
		A	0.000	0.000	13.775	0.000	0.0000
		B	0.000	0.000	20.705	0.000	0.0803
L49	2.7500-0.0000	C	0.000	0.000	13.775	0.000	0.1460
		A	0.000	0.000	6.199	0.000	0.0000
		B	0.000	0.000	10.010	0.000	0.0442
		C	0.000	0.000	6.199	0.000	0.0803

### Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation	Face or Leg	Ice Thickness	A <sub>R</sub>	A <sub>F</sub>	C <sub>A</sub> A <sub>A</sub> In Face	C <sub>A</sub> A <sub>A</sub> Out Face	Weight
n	ft		in	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	K
L1	140.0000-135.0000	A	1.471	0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	1.476	0.000	0.0225
		C		0.000	0.000	0.000	0.000	0.0347
L2	135.0000-130.0000	A	1.465	0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	2.455	0.000	0.0373
		C		0.000	0.000	0.000	0.000	0.0579
L3	130.0000-125.0000	A	1.459	0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	2.449	0.000	0.0372
		C		0.000	0.000	0.000	0.000	0.0895
L4	125.0000-120.0000	A	1.454	0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	2.444	0.000	0.0370
		C		0.000	0.000	0.000	0.000	0.0974
L5	120.0000-115.0000	A	1.448	0.000	0.000	2.072	0.000	0.0186
		B		0.000	0.000	13.744	0.000	0.2653

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L6	115.0000-114.7500	C	1.444	0.000	0.000	2.072	0.000	0.1160
		A		0.000	0.000	0.259	0.000	0.0023
		B		0.000	0.000	0.842	0.000	0.0146
L7	114.7500-109.7500	C	1.441	0.000	0.000	0.259	0.000	0.0072
		A		0.000	0.000	5.175	0.000	0.0461
		B		0.000	0.000	16.833	0.000	0.2921
L8	109.7500-104.7500	C	1.434	0.000	0.000	5.175	0.000	0.1435
		A		0.000	0.000	5.170	0.000	0.0458
		B		0.000	0.000	16.812	0.000	0.2911
L9	104.7500-101.5800	C	1.429	0.000	0.000	5.170	0.000	0.1433
		A		0.000	0.000	2.841	0.000	0.0251
		B		0.000	0.000	10.214	0.000	0.1802
L10	101.5800-101.3300	C	1.427	0.000	0.000	2.841	0.000	0.0869
		A		0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	0.581	0.000	0.0122
L11	101.3300-96.3300	C	1.423	0.000	0.000	0.000	0.000	0.0049
		A		0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	11.616	0.000	0.2439
L12	96.3300-91.3300	C	1.415	0.000	0.000	0.000	0.000	0.0974
		A		0.000	0.000	2.143	0.000	0.0178
		B		0.000	0.000	13.742	0.000	0.2609
L13	91.3300-91.0000	C	1.411	0.000	0.000	2.143	0.000	0.1152
		A		0.000	0.000	0.423	0.000	0.0035
		B		0.000	0.000	1.188	0.000	0.0195
L14	91.0000-90.7500	C	1.411	0.000	0.000	0.423	0.000	0.0099
		A		0.000	0.000	0.321	0.000	0.0027
		B		0.000	0.000	0.900	0.000	0.0148
L15	90.7500-85.7500	C	1.407	0.000	0.000	0.321	0.000	0.0075
		A		0.000	0.000	6.407	0.000	0.0529
		B		0.000	0.000	17.987	0.000	0.2950
L16	85.7500-80.7500	C	1.399	0.000	0.000	6.407	0.000	0.1503
		A		0.000	0.000	6.399	0.000	0.0525
		B		0.000	0.000	17.960	0.000	0.2937
L17	80.7500-75.7500	C	1.390	0.000	0.000	6.399	0.000	0.1499
		A		0.000	0.000	6.390	0.000	0.0521
		B		0.000	0.000	17.932	0.000	0.2923
L18	75.7500-70.7500	C	1.381	0.000	0.000	6.390	0.000	0.1495
		A		0.000	0.000	7.874	0.000	0.0642
		B		0.000	0.000	19.396	0.000	0.3034
L19	70.7500-69.9800	C	1.375	0.000	0.000	7.874	0.000	0.1831
		A		0.000	0.000	1.901	0.000	0.0156
		B		0.000	0.000	3.673	0.000	0.0524
L20	69.9800-69.7300	C	1.374	0.000	0.000	1.901	0.000	0.0380
		A		0.000	0.000	0.617	0.000	0.0051
		B		0.000	0.000	1.192	0.000	0.0170
L21	69.7300-64.7300	C	1.369	0.000	0.000	0.617	0.000	0.0123
		A		0.000	0.000	8.499	0.000	0.0702
		B		0.000	0.000	19.994	0.000	0.3081
L22	64.7300-63.0000	C	1.362	0.000	0.000	8.499	0.000	0.2154
		A		0.000	0.000	4.170	0.000	0.0346
		B		0.000	0.000	8.142	0.000	0.1167
L23	63.0000-62.7500	C	1.360	0.000	0.000	4.170	0.000	0.0849
		A		0.000	0.000	0.602	0.000	0.0050
		B		0.000	0.000	1.176	0.000	0.0168
L24	62.7500-59.0800	C	1.356	0.000	0.000	0.602	0.000	0.0123
		A		0.000	0.000	10.358	0.000	0.0865
		B		0.000	0.000	18.773	0.000	0.2600
L25	59.0800-58.8200	C	1.351	0.000	0.000	10.358	0.000	0.1931
		A		0.000	0.000	0.904	0.000	0.0076
		B		0.000	0.000	1.499	0.000	0.0199
L26	58.8200-58.6700	C	1.351	0.000	0.000	0.904	0.000	0.0152
		A		0.000	0.000	0.521	0.000	0.0044
		B		0.000	0.000	0.865	0.000	0.0115
L27	58.6700-53.6700	C	1.345	0.000	0.000	0.521	0.000	0.0087
		A		0.000	0.000	13.397	0.000	0.1129
		B		0.000	0.000	24.838	0.000	0.3481
L28	53.6700-48.5800	C	1.332	0.000	0.000	13.397	0.000	0.2581
		A		0.000	0.000	12.319	0.000	0.1024
		B		0.000	0.000	23.937	0.000	0.3404

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	$A_R$ ft <sup>2</sup>	$A_F$ ft <sup>2</sup>	$C_{AA}$ In Face ft <sup>2</sup>	$C_{AA}$ Out Face ft <sup>2</sup>	Weight K
L29	48.5800-47.5800	C	1.324	0.000	0.000	12.319	0.000	0.2505
		A		0.000	0.000	2.288	0.000	0.0188
		B		0.000	0.000	4.570	0.000	0.0656
L30	47.5800-42.5800	C	1.315	0.000	0.000	2.288	0.000	0.0480
		A		0.000	0.000	11.406	0.000	0.0927
		B		0.000	0.000	22.780	0.000	0.3246
L31	42.5800-39.6700	C	1.303	0.000	0.000	11.406	0.000	0.2387
		A		0.000	0.000	9.048	0.000	0.0725
		B		0.000	0.000	15.653	0.000	0.2067
L32	39.6700-39.4200	C	1.298	0.000	0.000	9.048	0.000	0.1575
		A		0.000	0.000	0.871	0.000	0.0069
		B		0.000	0.000	1.438	0.000	0.0184
L33	39.4200-34.4200	C	1.289	0.000	0.000	0.871	0.000	0.0142
		A		0.000	0.000	17.407	0.000	0.1377
		B		0.000	0.000	28.723	0.000	0.3668
L34	34.4200-32.5000	C	1.277	0.000	0.000	17.407	0.000	0.2837
		A		0.000	0.000	7.680	0.000	0.0598
		B		0.000	0.000	12.014	0.000	0.1472
L35	32.5000-32.2500	C	1.273	0.000	0.000	7.680	0.000	0.1158
		A		0.000	0.000	1.171	0.000	0.0090
		B		0.000	0.000	1.735	0.000	0.0204
L36	32.2500-31.4200	C	1.270	0.000	0.000	1.171	0.000	0.0163
		A		0.000	0.000	3.888	0.000	0.0299
		B		0.000	0.000	5.759	0.000	0.0676
L37	31.4200-31.1700	C	1.268	0.000	0.000	3.888	0.000	0.0542
		A		0.000	0.000	1.171	0.000	0.0090
		B		0.000	0.000	1.734	0.000	0.0203
L38	31.1700-29.0000	C	1.263	0.000	0.000	1.171	0.000	0.0163
		A		0.000	0.000	10.334	0.000	0.0820
		B		0.000	0.000	13.127	0.000	0.1617
L39	29.0000-28.6500	C	1.258	0.000	0.000	10.334	0.000	0.1453
		A		0.000	0.000	1.579	0.000	0.0126
		B		0.000	0.000	2.000	0.000	0.0251
L40	28.6500-28.4200	C	1.257	0.000	0.000	1.579	0.000	0.0228
		A		0.000	0.000	1.038	0.000	0.0082
		B		0.000	0.000	1.314	0.000	0.0165
L41	28.4200-23.5000	C	1.245	0.000	0.000	1.038	0.000	0.0150
		A		0.000	0.000	20.833	0.000	0.1636
		B		0.000	0.000	26.729	0.000	0.3396
L42	23.5000-23.2500	C	1.232	0.000	0.000	20.833	0.000	0.3072
		A		0.000	0.000	1.134	0.000	0.0087
		B		0.000	0.000	1.433	0.000	0.0176
L43	23.2500-23.0000	C	1.230	0.000	0.000	1.134	0.000	0.0160
		A		0.000	0.000	1.134	0.000	0.0087
		B		0.000	0.000	1.432	0.000	0.0176
L44	23.0000-22.7500	C	1.229	0.000	0.000	1.134	0.000	0.0160
		A		0.000	0.000	1.134	0.000	0.0087
		B		0.000	0.000	1.432	0.000	0.0176
L45	22.7500-17.7500	C	1.214	0.000	0.000	1.134	0.000	0.0160
		A		0.000	0.000	19.240	0.000	0.1430
		B		0.000	0.000	28.564	0.000	0.3486
L46	17.7500-12.7500	C	1.180	0.000	0.000	19.240	0.000	0.2890
		A		0.000	0.000	17.316	0.000	0.1232
		B		0.000	0.000	28.386	0.000	0.3405
L47	12.7500-7.7500	C	1.134	0.000	0.000	17.316	0.000	0.2692
		A		0.000	0.000	17.178	0.000	0.1172
		B		0.000	0.000	28.144	0.000	0.3296
L48	7.7500-2.7500	C	1.061	0.000	0.000	17.178	0.000	0.2632
		A		0.000	0.000	16.957	0.000	0.1079
		B		0.000	0.000	27.759	0.000	0.3126
L49	2.7500-0.0000	C	0.928	0.000	0.000	16.957	0.000	0.2539
		A		0.000	0.000	7.451	0.000	0.0412
		B		0.000	0.000	13.227	0.000	0.1463
		C		0.000	0.000	7.451	0.000	0.1215

### Feed Line Center of Pressure

Section	Elevation	CP <sub>x</sub>	CP <sub>z</sub>	CP <sub>x</sub>	CP <sub>z</sub>
	ft	in	in	Ice in	Ice in
L1	140.0000-135.0000	0.9594	0.2039	1.1619	0.2470
L2	135.0000-130.0000	1.4219	0.3022	1.7660	0.3754
L3	130.0000-125.0000	1.4554	0.3094	1.7923	0.3810
L4	125.0000-120.0000	1.4753	0.3136	1.8156	0.3859
L5	120.0000-115.0000	3.4832	-1.6368	3.8219	-1.6040
L6	115.0000-114.7500	2.5898	-1.2158	2.9401	-1.2325
L7	114.7500-109.7500	2.6274	-1.2324	2.9934	-1.2535
L8	109.7500-104.7500	2.6970	-1.2631	3.0929	-1.2928
L9	104.7500-101.5800	2.9163	-1.3641	3.3473	-1.3973
L10	101.5800-101.3300	4.6146	-2.1575	5.1259	-2.1386
L11	101.3300-96.3300	4.6378	-2.1668	5.1810	-2.1600
L12	96.3300-91.3300	3.6996	-1.7263	4.2961	-1.7888
L13	91.3300-91.0000	2.6273	-1.2251	3.1630	-1.3162
L14	91.0000-90.7500	2.6323	-1.2274	3.1693	-1.3188
L15	90.7500-85.7500	2.6632	-1.2411	3.2142	-1.3367
L16	85.7500-80.7500	2.7207	-1.2665	3.2980	-1.3703
L17	80.7500-75.7500	2.7765	-1.2912	3.3797	-1.4033
L18	75.7500-70.7500	2.5471	-1.1834	3.1431	-1.3042
L19	70.7500-69.9800	1.9847	-0.9216	2.5028	-1.0383
L20	69.9800-69.7300	1.9893	-0.9237	2.5092	-1.0409
L21	69.7300-64.7300	2.4548	-1.1393	3.0762	-1.2758
L22	64.7300-63.0000	2.0429	-0.9477	2.6139	-1.0839
L23	63.0000-62.7500	2.0522	-0.9518	2.6265	-1.0891
L24	62.7500-59.0800	1.8962	-0.8792	2.4233	-1.0048
L25	59.0800-58.8200	1.6892	-0.7830	2.1541	-0.8931
L26	58.8200-58.6700	1.6908	-0.7837	2.1562	-0.8940
L27	58.6700-53.6700	2.0379	-0.9442	2.5741	-1.0672
L28	53.6700-48.5800	2.2163	-1.0262	2.7819	-1.1535
L29	48.5800-47.5800	2.2908	-1.0606	2.8482	-1.1809
L30	47.5800-42.5800	2.3165	-1.0721	2.8829	-1.1964
L31	42.5800-39.6700	1.9437	-0.8991	2.4589	-1.0208
L32	39.6700-39.4200	1.8138	-0.8388	2.3072	-0.9580
L33	39.4200-34.4200	1.8328	-0.8473	2.3325	-0.9689
L34	34.4200-32.5000	1.6870	-0.7796	2.1539	-0.8952
L35	32.5000-32.2500	1.5120	-0.6987	1.9361	-0.8049
L36	32.2500-31.4200	1.5154	-0.7002	1.9405	-0.8068
L37	31.4200-31.1700	1.5189	-0.7018	1.9451	-0.8088
L38	31.1700-29.0000	1.3072	0.2834	1.7888	0.0753
L39	29.0000-28.6500	1.3495	0.3883	1.8578	0.1618
L40	28.6500-28.4200	1.3510	0.3890	1.8598	0.1622
L41	28.4200-23.5000	1.4320	0.4146	1.9614	0.1735
L42	23.5000-23.2500	1.3775	0.4009	1.8841	0.1689
L43	23.2500-23.0000	1.3788	0.4015	1.8858	0.1693
L44	23.0000-22.7500	1.3799	0.4020	1.8874	0.1697
L45	22.7500-17.7500	1.7387	-0.4058	2.2566	-0.5791
L46	17.7500-12.7500	1.9835	-0.9149	2.5113	-1.0505
L47	12.7500-7.7500	2.0169	-0.9299	2.5516	-1.0715
L48	7.7500-2.7500	2.0498	-0.9446	2.5867	-1.0936
L49	2.7500-0.0000	2.3372	-1.0767	2.9226	-1.2522

Note: For pole sections, center of pressure calculations do not consider feed line shielding.



**Shielding Factor Ka**

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L1	43	HB158-1-08U8-S8J18(1-5/8)	135.00 - 138.00	1.0000	1.0000
L2	43	HB158-1-08U8-S8J18(1-5/8)	130.00 - 135.00	1.0000	1.0000
L3	43	HB158-1-08U8-S8J18(1-5/8)	125.00 - 130.00	1.0000	1.0000
L4	43	HB158-1-08U8-S8J18(1-5/8)	120.00 - 125.00	1.0000	1.0000
L5	33	CCI-65FP-045100	115.00 - 117.00	1.0000	1.0000
L5	34	CCI-65FP-045100	115.00 - 117.00	1.0000	1.0000
L5	35	CCI-65FP-045100	115.00 - 117.00	1.0000	1.0000
L5	43	HB158-1-08U8-S8J18(1-5/8)	115.00 - 120.00	1.0000	1.0000
L5	52	LDF7-50A(1-5/8)	115.00 - 120.00	1.0000	1.0000
L6	33	CCI-65FP-045100	114.75 - 115.00	1.0000	1.0000
L6	34	CCI-65FP-045100	114.75 - 115.00	1.0000	1.0000
L6	35	CCI-65FP-045100	114.75 - 115.00	1.0000	1.0000
L6	43	HB158-1-08U8-S8J18(1-5/8)	114.75 - 115.00	1.0000	1.0000
L6	52	LDF7-50A(1-5/8)	114.75 - 115.00	1.0000	1.0000
L7	33	CCI-65FP-045100	109.75 - 114.75	1.0000	1.0000
L7	34	CCI-65FP-045100	109.75 - 114.75	1.0000	1.0000
L7	35	CCI-65FP-045100	109.75 - 114.75	1.0000	1.0000
L7	43	HB158-1-08U8-S8J18(1-5/8)	109.75 - 114.75	1.0000	1.0000
L7	52	LDF7-50A(1-5/8)	109.75 - 114.75	1.0000	1.0000
L8	33	CCI-65FP-045100	104.75 - 109.75	1.0000	1.0000
L8	34	CCI-65FP-045100	104.75 - 109.75	1.0000	1.0000
L8	35	CCI-65FP-045100	104.75 - 109.75	1.0000	1.0000
L8	43	HB158-1-08U8-S8J18(1-5/8)	104.75 - 109.75	1.0000	1.0000
L8	52	LDF7-50A(1-5/8)	104.75 - 109.75	1.0000	1.0000
L9	33	CCI-65FP-045100	102.00 - 104.75	1.0000	1.0000
L9	34	CCI-65FP-045100	102.00 - 104.75	1.0000	1.0000
L9	35	CCI-65FP-045100	102.00 - 104.75	1.0000	1.0000
L9	43	HB158-1-08U8-S8J18(1-5/8)	101.58 - 104.75	1.0000	1.0000
L9	52	LDF7-50A(1-5/8)	101.58 - 104.75	1.0000	1.0000
L10	43	HB158-1-08U8-S8J18(1-5/8)	101.33 - 101.58	1.0000	1.0000
L10	52	LDF7-50A(1-5/8)	101.33 - 101.58	1.0000	1.0000
L11	43	HB158-1-08U8-S8J18(1-5/8)	96.33 - 101.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L11	52	LDF7-50A(1-5/8)	96.33 - 101.33	1.0000	1.0000
L12	29	CCI-65FP-060100	91.33 - 93.00	1.0000	1.0000
L12	30	CCI-65FP-060100	91.33 - 93.00	1.0000	1.0000
L12	31	CCI-65FP-060100	91.33 - 93.00	1.0000	1.0000
L12	43	HB158-1-08U8-S8J18(1-5/8)	91.33 - 96.33	1.0000	1.0000
L12	52	LDF7-50A(1-5/8)	91.33 - 96.33	1.0000	1.0000
L13	29	CCI-65FP-060100	91.00 - 91.33	1.0000	1.0000
L13	30	CCI-65FP-060100	91.00 - 91.33	1.0000	1.0000
L13	31	CCI-65FP-060100	91.00 - 91.33	1.0000	1.0000
L13	43	HB158-1-08U8-S8J18(1-5/8)	91.00 - 91.33	1.0000	1.0000
L13	52	LDF7-50A(1-5/8)	91.00 - 91.33	1.0000	1.0000
L14	29	CCI-65FP-060100	90.75 - 91.00	1.0000	1.0000
L14	30	CCI-65FP-060100	90.75 - 91.00	1.0000	1.0000
L14	31	CCI-65FP-060100	90.75 - 91.00	1.0000	1.0000
L14	43	HB158-1-08U8-S8J18(1-5/8)	90.75 - 91.00	1.0000	1.0000
L14	52	LDF7-50A(1-5/8)	90.75 - 91.00	1.0000	1.0000
L15	29	CCI-65FP-060100	85.75 - 90.75	1.0000	1.0000
L15	30	CCI-65FP-060100	85.75 - 90.75	1.0000	1.0000
L15	31	CCI-65FP-060100	85.75 - 90.75	1.0000	1.0000
L15	43	HB158-1-08U8-S8J18(1-5/8)	85.75 - 90.75	1.0000	1.0000
L15	52	LDF7-50A(1-5/8)	85.75 - 90.75	1.0000	1.0000
L16	29	CCI-65FP-060100	80.75 - 85.75	1.0000	1.0000
L16	30	CCI-65FP-060100	80.75 - 85.75	1.0000	1.0000
L16	31	CCI-65FP-060100	80.75 - 85.75	1.0000	1.0000
L16	43	HB158-1-08U8-S8J18(1-5/8)	80.75 - 85.75	1.0000	1.0000
L16	52	LDF7-50A(1-5/8)	80.75 - 85.75	1.0000	1.0000
L17	29	CCI-65FP-060100	75.75 - 80.75	1.0000	1.0000
L17	30	CCI-65FP-060100	75.75 - 80.75	1.0000	1.0000
L17	31	CCI-65FP-060100	75.75 - 80.75	1.0000	1.0000
L17	43	HB158-1-08U8-S8J18(1-5/8)	75.75 - 80.75	1.0000	1.0000
L17	52	LDF7-50A(1-5/8)	75.75 - 80.75	1.0000	1.0000
L18	9	5.75" x 1" Flat Plate (G)	70.75 - 72.00	1.0000	1.0000
L18	10	5.75" x 1" Flat Plate (G)	70.75 - 72.00	1.0000	1.0000
L18	11	5.75" x 1" Flat Plate (G)	70.75 - 72.00	1.0000	1.0000
L18	29	CCI-65FP-060100	70.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L18	30	CCI-65FP-060100	75.75 70.75 -	1.0000	1.0000
L18	31	CCI-65FP-060100	75.75 70.75 -	1.0000	1.0000
L18	43	HB158-1-08U8-S8J18(1-5/8)	75.75 70.75 -	1.0000	1.0000
L18	52	LDF7-50A(1-5/8)	75.75 70.75 -	1.0000	1.0000
L19	9	5.75" x 1" Flat Plate (G)	70.75 69.98 -	1.0000	1.0000
L19	10	5.75" x 1" Flat Plate (G)	70.75 69.98 -	1.0000	1.0000
L19	11	5.75" x 1" Flat Plate (G)	70.75 69.98 -	1.0000	1.0000
L19	29	CCI-65FP-060100	70.75 69.98 -	1.0000	1.0000
L19	30	CCI-65FP-060100	70.75 69.98 -	1.0000	1.0000
L19	31	CCI-65FP-060100	70.75 69.98 -	1.0000	1.0000
L19	43	HB158-1-08U8-S8J18(1-5/8)	70.75 69.98 -	1.0000	1.0000
L19	52	LDF7-50A(1-5/8)	70.75 69.98 -	1.0000	1.0000
L20	9	5.75" x 1" Flat Plate (G)	70.75 69.73 -	1.0000	1.0000
L20	10	5.75" x 1" Flat Plate (G)	69.98 69.73 -	1.0000	1.0000
L20	11	5.75" x 1" Flat Plate (G)	69.98 69.73 -	1.0000	1.0000
L20	29	CCI-65FP-060100	69.98 69.73 -	1.0000	1.0000
L20	30	CCI-65FP-060100	69.98 69.73 -	1.0000	1.0000
L20	31	CCI-65FP-060100	69.98 69.73 -	1.0000	1.0000
L20	43	HB158-1-08U8-S8J18(1-5/8)	69.98 69.73 -	1.0000	1.0000
L20	52	LDF7-50A(1-5/8)	69.98 69.73 -	1.0000	1.0000
L21	9	5.75" x 1" Flat Plate (G)	69.98 64.73 -	1.0000	1.0000
L21	10	5.75" x 1" Flat Plate (G)	69.73 64.73 -	1.0000	1.0000
L21	11	5.75" x 1" Flat Plate (G)	69.73 64.73 -	1.0000	1.0000
L21	25	CCI-65FP-060100	69.73 65.00	1.0000	1.0000
L21	26	CCI-65FP-060100	65.00 64.73 -	1.0000	1.0000
L21	27	CCI-65FP-060100	65.00 64.73 -	1.0000	1.0000
L21	29	CCI-65FP-060100	64.73 68.00 -	1.0000	1.0000
L21	30	CCI-65FP-060100	69.73 68.00 -	1.0000	1.0000
L21	31	CCI-65FP-060100	69.73 68.00 -	1.0000	1.0000
L21	43	HB158-1-08U8-S8J18(1-5/8)	69.73 64.73 -	1.0000	1.0000
L21	52	LDF7-50A(1-5/8)	69.73 64.73 -	1.0000	1.0000
L22	9	5.75" x 1" Flat Plate (G)	69.73 63.00 -	1.0000	1.0000
L22	10	5.75" x 1" Flat Plate (G)	64.73 63.00 -	1.0000	1.0000
L22	11	5.75" x 1" Flat Plate (G)	64.73 63.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L22	25	CCI-65FP-060100	63.00 - 64.73	1.0000	1.0000
L22	26	CCI-65FP-060100	63.00 - 64.73	1.0000	1.0000
L22	27	CCI-65FP-060100	63.00 - 64.73	1.0000	1.0000
L22	43	HB158-1-08U8-S8J18(1-5/8)	63.00 - 64.73	1.0000	1.0000
L22	52	LDF7-50A(1-5/8)	63.00 - 64.73	1.0000	1.0000
L23	9	5.75" x 1" Flat Plate (G)	62.75 - 63.00	1.0000	1.0000
L23	10	5.75" x 1" Flat Plate (G)	62.75 - 63.00	1.0000	1.0000
L23	11	5.75" x 1" Flat Plate (G)	62.75 - 63.00	1.0000	1.0000
L23	25	CCI-65FP-060100	62.75 - 63.00	1.0000	1.0000
L23	26	CCI-65FP-060100	62.75 - 63.00	1.0000	1.0000
L23	27	CCI-65FP-060100	62.75 - 63.00	1.0000	1.0000
L23	43	HB158-1-08U8-S8J18(1-5/8)	62.75 - 63.00	1.0000	1.0000
L23	52	LDF7-50A(1-5/8)	62.75 - 63.00	1.0000	1.0000
L24	9	5.75" x 1" Flat Plate (G)	59.08 - 62.75	1.0000	1.0000
L24	10	5.75" x 1" Flat Plate (G)	59.08 - 62.75	1.0000	1.0000
L24	11	5.75" x 1" Flat Plate (G)	59.08 - 62.75	1.0000	1.0000
L24	13	MP3-04	59.08 - 60.50	1.0000	1.0000
L24	14	MP3-04	59.08 - 60.50	1.0000	1.0000
L24	15	MP3-04	59.08 - 60.50	1.0000	1.0000
L24	25	CCI-65FP-060100	59.08 - 62.75	1.0000	1.0000
L24	26	CCI-65FP-060100	59.08 - 62.75	1.0000	1.0000
L24	27	CCI-65FP-060100	59.08 - 62.75	1.0000	1.0000
L24	43	HB158-1-08U8-S8J18(1-5/8)	59.08 - 62.75	1.0000	1.0000
L24	52	LDF7-50A(1-5/8)	59.08 - 62.75	1.0000	1.0000
L25	9	5.75" x 1" Flat Plate (G)	58.82 - 59.08	1.0000	1.0000
L25	10	5.75" x 1" Flat Plate (G)	58.82 - 59.08	1.0000	1.0000
L25	11	5.75" x 1" Flat Plate (G)	58.82 - 59.08	1.0000	1.0000
L25	13	MP3-04	58.82 - 59.08	1.0000	1.0000
L25	14	MP3-04	58.82 - 59.08	1.0000	1.0000
L25	15	MP3-04	58.82 - 59.08	1.0000	1.0000
L25	25	CCI-65FP-060100	58.82 - 59.08	1.0000	1.0000
L25	26	CCI-65FP-060100	58.82 - 59.08	1.0000	1.0000
L25	27	CCI-65FP-060100	58.82 - 59.08	1.0000	1.0000
L25	43	HB158-1-08U8-S8J18(1-5/8)	58.82 - 59.08	1.0000	1.0000
L25	52	LDF7-50A(1-5/8)	58.82 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			59.08		
L26	9	5.75" x 1" Flat Plate (G)	58.67 - 58.82	1.0000	1.0000
L26	10	5.75" x 1" Flat Plate (G)	58.67 - 58.82	1.0000	1.0000
L26	11	5.75" x 1" Flat Plate (G)	58.67 - 58.82	1.0000	1.0000
L26	13	MP3-04	58.67 - 58.82	1.0000	1.0000
L26	14	MP3-04	58.67 - 58.82	1.0000	1.0000
L26	15	MP3-04	58.67 - 58.82	1.0000	1.0000
L26	25	CCI-65FP-060100	58.67 - 58.82	1.0000	1.0000
L26	26	CCI-65FP-060100	58.67 - 58.82	1.0000	1.0000
L26	27	CCI-65FP-060100	58.67 - 58.82	1.0000	1.0000
L26	43	HB158-1-08U8-S8J18(1-5/8)	58.67 - 58.82	1.0000	1.0000
L26	52	LDF7-50A(1-5/8)	58.67 - 58.82	1.0000	1.0000
L27	9	5.75" x 1" Flat Plate (G)	57.00 - 58.67	1.0000	1.0000
L27	10	5.75" x 1" Flat Plate (G)	57.00 - 58.67	1.0000	1.0000
L27	11	5.75" x 1" Flat Plate (G)	57.00 - 58.67	1.0000	1.0000
L27	13	MP3-04	53.67 - 58.67	1.0000	1.0000
L27	14	MP3-04	53.67 - 58.67	1.0000	1.0000
L27	15	MP3-04	53.67 - 58.67	1.0000	1.0000
L27	25	CCI-65FP-060100	53.67 - 58.67	1.0000	1.0000
L27	26	CCI-65FP-060100	53.67 - 58.67	1.0000	1.0000
L27	27	CCI-65FP-060100	53.67 - 58.67	1.0000	1.0000
L27	43	HB158-1-08U8-S8J18(1-5/8)	53.67 - 58.67	1.0000	1.0000
L27	52	LDF7-50A(1-5/8)	53.67 - 58.67	1.0000	1.0000
L28	5	5.75" x 1" Flat Plate (G)	48.58 - 50.58	1.0000	1.0000
L28	6	5.75" x 1" Flat Plate (G)	48.58 - 50.58	1.0000	1.0000
L28	7	5.75" x 1" Flat Plate (G)	48.58 - 50.58	1.0000	1.0000
L28	13	MP3-04	48.58 - 53.67	1.0000	1.0000
L28	14	MP3-04	48.58 - 53.67	1.0000	1.0000
L28	15	MP3-04	48.58 - 53.67	1.0000	1.0000
L28	25	CCI-65FP-060100	50.00 - 53.67	1.0000	1.0000
L28	26	CCI-65FP-060100	50.00 - 53.67	1.0000	1.0000
L28	27	CCI-65FP-060100	50.00 - 53.67	1.0000	1.0000
L28	43	HB158-1-08U8-S8J18(1-5/8)	48.58 - 53.67	1.0000	1.0000
L28	52	LDF7-50A(1-5/8)	48.58 - 53.67	1.0000	1.0000
L30	5	5.75" x 1" Flat Plate (G)	42.58 - 47.58	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L30	6	5.75" x 1" Flat Plate (G)	42.58 - 47.58	1.0000	1.0000
L30	7	5.75" x 1" Flat Plate (G)	42.58 - 47.58	1.0000	1.0000
L30	13	MP3-04	42.58 - 47.58	1.0000	1.0000
L30	14	MP3-04	42.58 - 47.58	1.0000	1.0000
L30	15	MP3-04	42.58 - 47.58	1.0000	1.0000
L30	43	HB158-1-08U8-S8J18(1-5/8)	42.58 - 47.58	1.0000	1.0000
L30	52	LDF7-50A(1-5/8)	42.58 - 47.58	1.0000	1.0000
L31	5	5.75" x 1" Flat Plate (G)	39.67 - 42.58	1.0000	1.0000
L31	6	5.75" x 1" Flat Plate (G)	39.67 - 42.58	1.0000	1.0000
L31	7	5.75" x 1" Flat Plate (G)	39.67 - 42.58	1.0000	1.0000
L31	13	MP3-04	39.67 - 42.58	1.0000	1.0000
L31	14	MP3-04	39.67 - 42.58	1.0000	1.0000
L31	15	MP3-04	39.67 - 42.58	1.0000	1.0000
L31	17	CCI-65FP-060100	39.67 - 41.67	1.0000	1.0000
L31	18	CCI-65FP-060100	39.67 - 41.67	1.0000	1.0000
L31	19	CCI-65FP-060100	39.67 - 41.67	1.0000	1.0000
L31	43	HB158-1-08U8-S8J18(1-5/8)	39.67 - 42.58	1.0000	1.0000
L31	52	LDF7-50A(1-5/8)	39.67 - 42.58	1.0000	1.0000
L32	5	5.75" x 1" Flat Plate (G)	39.42 - 39.67	1.0000	1.0000
L32	6	5.75" x 1" Flat Plate (G)	39.42 - 39.67	1.0000	1.0000
L32	7	5.75" x 1" Flat Plate (G)	39.42 - 39.67	1.0000	1.0000
L32	13	MP3-04	39.42 - 39.67	1.0000	1.0000
L32	14	MP3-04	39.42 - 39.67	1.0000	1.0000
L32	15	MP3-04	39.42 - 39.67	1.0000	1.0000
L32	17	CCI-65FP-060100	39.42 - 39.67	1.0000	1.0000
L32	18	CCI-65FP-060100	39.42 - 39.67	1.0000	1.0000
L32	19	CCI-65FP-060100	39.42 - 39.67	1.0000	1.0000
L32	43	HB158-1-08U8-S8J18(1-5/8)	39.42 - 39.67	1.0000	1.0000
L32	52	LDF7-50A(1-5/8)	39.42 - 39.67	1.0000	1.0000
L33	5	5.75" x 1" Flat Plate (G)	34.42 - 39.42	1.0000	1.0000
L33	6	5.75" x 1" Flat Plate (G)	34.42 - 39.42	1.0000	1.0000
L33	7	5.75" x 1" Flat Plate (G)	34.42 - 39.42	1.0000	1.0000
L33	13	MP3-04	34.42 - 39.42	1.0000	1.0000
L33	14	MP3-04	34.42 - 39.42	1.0000	1.0000
L33	15	MP3-04	34.42 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			39.42		
L33	17	CCI-65FP-060100	34.42 - 39.42	1.0000	1.0000
L33	18	CCI-65FP-060100	34.42 - 39.42	1.0000	1.0000
L33	19	CCI-65FP-060100	34.42 - 39.42	1.0000	1.0000
L33	43	HB158-1-08U8-S8J18(1-5/8)	34.42 - 39.42	1.0000	1.0000
L33	52	LDF7-50A(1-5/8)	34.42 - 39.42	1.0000	1.0000
L34	1	5.75" x 1" Flat Plate (G)	32.50 - 33.33	1.0000	1.0000
L34	2	5.75" x 1" Flat Plate (G)	32.50 - 33.33	1.0000	1.0000
L34	3	5.75" x 1" Flat Plate (G)	32.50 - 33.33	1.0000	1.0000
L34	5	5.75" x 1" Flat Plate (G)	32.50 - 34.42	1.0000	1.0000
L34	6	5.75" x 1" Flat Plate (G)	32.50 - 34.42	1.0000	1.0000
L34	7	5.75" x 1" Flat Plate (G)	32.50 - 34.42	1.0000	1.0000
L34	13	MP3-04	32.50 - 34.42	1.0000	1.0000
L34	14	MP3-04	32.50 - 34.42	1.0000	1.0000
L34	15	MP3-04	32.50 - 34.42	1.0000	1.0000
L34	17	CCI-65FP-060100	32.50 - 34.42	1.0000	1.0000
L34	18	CCI-65FP-060100	32.50 - 34.42	1.0000	1.0000
L34	19	CCI-65FP-060100	32.50 - 34.42	1.0000	1.0000
L34	43	HB158-1-08U8-S8J18(1-5/8)	32.50 - 34.42	1.0000	1.0000
L34	52	LDF7-50A(1-5/8)	32.50 - 34.42	1.0000	1.0000
L35	1	5.75" x 1" Flat Plate (G)	32.25 - 32.50	1.0000	1.0000
L35	2	5.75" x 1" Flat Plate (G)	32.25 - 32.50	1.0000	1.0000
L35	3	5.75" x 1" Flat Plate (G)	32.25 - 32.50	1.0000	1.0000
L35	5	5.75" x 1" Flat Plate (G)	32.25 - 32.50	1.0000	1.0000
L35	6	5.75" x 1" Flat Plate (G)	32.25 - 32.50	1.0000	1.0000
L35	7	5.75" x 1" Flat Plate (G)	32.25 - 32.50	1.0000	1.0000
L35	13	MP3-04	32.25 - 32.50	1.0000	1.0000
L35	14	MP3-04	32.25 - 32.50	1.0000	1.0000
L35	15	MP3-04	32.25 - 32.50	1.0000	1.0000
L35	17	CCI-65FP-060100	32.25 - 32.50	1.0000	1.0000
L35	18	CCI-65FP-060100	32.25 - 32.50	1.0000	1.0000
L35	19	CCI-65FP-060100	32.25 - 32.50	1.0000	1.0000
L35	43	HB158-1-08U8-S8J18(1-5/8)	32.25 - 32.50	1.0000	1.0000
L35	52	LDF7-50A(1-5/8)	32.25 - 32.50	1.0000	1.0000
L36	1	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L36	2	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	3	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	5	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	6	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	7	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	13	MP3-04	31.42 - 32.25	1.0000	1.0000
L36	14	MP3-04	31.42 - 32.25	1.0000	1.0000
L36	15	MP3-04	31.42 - 32.25	1.0000	1.0000
L36	17	CCI-65FP-060100	31.42 - 32.25	1.0000	1.0000
L36	18	CCI-65FP-060100	31.42 - 32.25	1.0000	1.0000
L36	19	CCI-65FP-060100	31.42 - 32.25	1.0000	1.0000
L36	43	HB158-1-08U8-S8J18(1-5/8)	31.42 - 32.25	1.0000	1.0000
L36	52	LDF7-50A(1-5/8)	31.42 - 32.25	1.0000	1.0000
L37	1	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	2	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	3	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	5	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	6	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	7	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	13	MP3-04	31.17 - 31.42	1.0000	1.0000
L37	14	MP3-04	31.17 - 31.42	1.0000	1.0000
L37	15	MP3-04	31.17 - 31.42	1.0000	1.0000
L37	17	CCI-65FP-060100	31.17 - 31.42	1.0000	1.0000
L37	18	CCI-65FP-060100	31.17 - 31.42	1.0000	1.0000
L37	19	CCI-65FP-060100	31.17 - 31.42	1.0000	1.0000
L37	43	HB158-1-08U8-S8J18(1-5/8)	31.17 - 31.42	1.0000	1.0000
L37	52	LDF7-50A(1-5/8)	31.17 - 31.42	1.0000	1.0000
L38	1	5.75" x 1" Flat Plate (G)	29.00 - 31.17	1.0000	1.0000
L38	2	5.75" x 1" Flat Plate (G)	29.00 - 31.17	1.0000	1.0000
L38	3	5.75" x 1" Flat Plate (G)	29.00 - 31.17	1.0000	1.0000
L38	5	5.75" x 1" Flat Plate (G)	30.58 - 31.17	1.0000	1.0000
L38	6	5.75" x 1" Flat Plate (G)	30.58 - 31.17	1.0000	1.0000
L38	7	5.75" x 1" Flat Plate (G)	30.58 - 31.17	1.0000	1.0000
L38	13	MP3-04	29.00 - 31.17	1.0000	1.0000
L38	14	MP3-04	29.00 - 31.17	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L38	15	MP3-04	31.17 29.00 -	1.0000	1.0000
L38	17	CCI-65FP-060100	31.17 29.00 -	1.0000	1.0000
L38	18	CCI-65FP-060100	31.17 29.00 -	1.0000	1.0000
L38	19	CCI-65FP-060100	31.17 29.00 -	1.0000	1.0000
L38	37	CCI-65FP-060100	31.17 29.00 -	1.0000	1.0000
L38	38	CCI-65FP-060100	31.00 29.00 -	1.0000	1.0000
L38	43	HB158-1-08U8-S8J18(1-5/8)	31.00 29.00 -	1.0000	1.0000
L38	52	LDF7-50A(1-5/8)	31.17 29.00 -	1.0000	1.0000
L39	1	5.75" x 1" Flat Plate (G)	31.17 28.65 -	1.0000	1.0000
L39	2	5.75" x 1" Flat Plate (G)	29.00 28.65 -	1.0000	1.0000
L39	3	5.75" x 1" Flat Plate (G)	29.00 28.65 -	1.0000	1.0000
L39	13	MP3-04	29.00 28.65 -	1.0000	1.0000
L39	14	MP3-04	29.00 28.65 -	1.0000	1.0000
L39	15	MP3-04	29.00 28.65 -	1.0000	1.0000
L39	17	CCI-65FP-060100	29.00 28.65 -	1.0000	1.0000
L39	18	CCI-65FP-060100	29.00 28.65 -	1.0000	1.0000
L39	19	CCI-65FP-060100	29.00 28.65 -	1.0000	1.0000
L39	37	CCI-65FP-060100	29.00 28.65 -	1.0000	1.0000
L39	38	CCI-65FP-060100	29.00 28.65 -	1.0000	1.0000
L39	43	HB158-1-08U8-S8J18(1-5/8)	29.00 28.65 -	1.0000	1.0000
L39	52	LDF7-50A(1-5/8)	29.00 28.65 -	1.0000	1.0000
L40	1	5.75" x 1" Flat Plate (G)	29.00 28.42 -	1.0000	1.0000
L40	2	5.75" x 1" Flat Plate (G)	28.65 28.42 -	1.0000	1.0000
L40	3	5.75" x 1" Flat Plate (G)	28.65 28.42 -	1.0000	1.0000
L40	13	MP3-04	28.65 28.42 -	1.0000	1.0000
L40	14	MP3-04	28.65 28.42 -	1.0000	1.0000
L40	15	MP3-04	28.65 28.42 -	1.0000	1.0000
L40	17	CCI-65FP-060100	28.65 28.42 -	1.0000	1.0000
L40	18	CCI-65FP-060100	28.65 28.42 -	1.0000	1.0000
L40	19	CCI-65FP-060100	28.65 28.42 -	1.0000	1.0000
L40	37	CCI-65FP-060100	28.65 28.42 -	1.0000	1.0000
L40	38	CCI-65FP-060100	28.65 28.42 -	1.0000	1.0000
L40	43	HB158-1-08U8-S8J18(1-5/8)	28.65 28.42 -	1.0000	1.0000
L40	52	LDF7-50A(1-5/8)	28.65 28.42 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L41	1	5.75" x 1" Flat Plate (G)	23.50 - 28.42	1.0000	1.0000
L41	2	5.75" x 1" Flat Plate (G)	23.50 - 28.42	1.0000	1.0000
L41	3	5.75" x 1" Flat Plate (G)	23.50 - 28.42	1.0000	1.0000
L41	13	MP3-04	23.50 - 28.42	1.0000	1.0000
L41	14	MP3-04	23.50 - 28.42	1.0000	1.0000
L41	15	MP3-04	23.50 - 28.42	1.0000	1.0000
L41	17	CCI-65FP-060100	26.67 - 28.42	1.0000	1.0000
L41	18	CCI-65FP-060100	26.67 - 28.42	1.0000	1.0000
L41	19	CCI-65FP-060100	26.67 - 28.42	1.0000	1.0000
L41	21	CCI-65FP-060100	23.50 - 25.50	1.0000	1.0000
L41	22	CCI-65FP-060100	23.50 - 25.50	1.0000	1.0000
L41	23	CCI-65FP-060100	23.50 - 25.50	1.0000	1.0000
L41	37	CCI-65FP-060100	23.50 - 28.42	1.0000	1.0000
L41	38	CCI-65FP-060100	23.50 - 28.42	1.0000	1.0000
L41	43	HB158-1-08U8-S8J18(1-5/8)	23.50 - 28.42	1.0000	1.0000
L41	52	LDF7-50A(1-5/8)	23.50 - 28.42	1.0000	1.0000
L42	1	5.75" x 1" Flat Plate (G)	23.25 - 23.50	1.0000	1.0000
L42	2	5.75" x 1" Flat Plate (G)	23.25 - 23.50	1.0000	1.0000
L42	3	5.75" x 1" Flat Plate (G)	23.25 - 23.50	1.0000	1.0000
L42	13	MP3-04	23.25 - 23.50	1.0000	1.0000
L42	14	MP3-04	23.25 - 23.50	1.0000	1.0000
L42	15	MP3-04	23.25 - 23.50	1.0000	1.0000
L42	21	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	22	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	23	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	37	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	38	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	43	HB158-1-08U8-S8J18(1-5/8)	23.25 - 23.50	1.0000	1.0000
L42	52	LDF7-50A(1-5/8)	23.25 - 23.50	1.0000	1.0000
L43	1	5.75" x 1" Flat Plate (G)	23.00 - 23.25	1.0000	1.0000
L43	2	5.75" x 1" Flat Plate (G)	23.00 - 23.25	1.0000	1.0000
L43	3	5.75" x 1" Flat Plate (G)	23.00 - 23.25	1.0000	1.0000
L43	13	MP3-04	23.00 - 23.25	1.0000	1.0000
L43	14	MP3-04	23.00 - 23.25	1.0000	1.0000
L43	15	MP3-04	23.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L43	21	CCI-65FP-060100	23.25 23.00 - 23.25	1.0000	1.0000
L43	22	CCI-65FP-060100	23.00 - 23.25	1.0000	1.0000
L43	23	CCI-65FP-060100	23.00 - 23.25	1.0000	1.0000
L43	37	CCI-65FP-060100	23.00 - 23.25	1.0000	1.0000
L43	38	CCI-65FP-060100	23.00 - 23.25	1.0000	1.0000
L43	43	HB158-1-08U8-S8J18(1-5/8)	23.00 - 23.25	1.0000	1.0000
L43	52	LDF7-50A(1-5/8)	23.00 - 23.25	1.0000	1.0000
L44	1	5.75" x 1" Flat Plate (G)	22.75 - 23.00	1.0000	1.0000
L44	2	5.75" x 1" Flat Plate (G)	22.75 - 23.00	1.0000	1.0000
L44	3	5.75" x 1" Flat Plate (G)	22.75 - 23.00	1.0000	1.0000
L44	13	MP3-04	22.75 - 23.00	1.0000	1.0000
L44	14	MP3-04	22.75 - 23.00	1.0000	1.0000
L44	15	MP3-04	22.75 - 23.00	1.0000	1.0000
L44	21	CCI-65FP-060100	22.75 - 23.00	1.0000	1.0000
L44	22	CCI-65FP-060100	22.75 - 23.00	1.0000	1.0000
L44	23	CCI-65FP-060100	22.75 - 23.00	1.0000	1.0000
L44	37	CCI-65FP-060100	22.75 - 23.00	1.0000	1.0000
L44	38	CCI-65FP-060100	22.75 - 23.00	1.0000	1.0000
L44	43	HB158-1-08U8-S8J18(1-5/8)	22.75 - 23.00	1.0000	1.0000
L44	52	LDF7-50A(1-5/8)	22.75 - 23.00	1.0000	1.0000
L45	1	5.75" x 1" Flat Plate (G)	17.75 - 22.75	1.0000	1.0000
L45	2	5.75" x 1" Flat Plate (G)	17.75 - 22.75	1.0000	1.0000
L45	3	5.75" x 1" Flat Plate (G)	17.75 - 22.75	1.0000	1.0000
L45	13	MP3-04	17.75 - 22.75	1.0000	1.0000
L45	14	MP3-04	17.75 - 22.75	1.0000	1.0000
L45	15	MP3-04	17.75 - 22.75	1.0000	1.0000
L45	21	CCI-65FP-060100	17.75 - 22.75	1.0000	1.0000
L45	22	CCI-65FP-060100	17.75 - 22.75	1.0000	1.0000
L45	23	CCI-65FP-060100	17.75 - 22.75	1.0000	1.0000
L45	37	CCI-65FP-060100	21.00 - 22.75	1.0000	1.0000
L45	38	CCI-65FP-060100	21.00 - 22.75	1.0000	1.0000
L45	43	HB158-1-08U8-S8J18(1-5/8)	17.75 - 22.75	1.0000	1.0000
L45	52	LDF7-50A(1-5/8)	17.75 - 22.75	1.0000	1.0000
L46	1	5.75" x 1" Flat Plate (G)	12.75 - 17.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L46	2	5.75" x 1" Flat Plate (G)	12.75 - 17.75	1.0000	1.0000
L46	3	5.75" x 1" Flat Plate (G)	12.75 - 17.75	1.0000	1.0000
L46	13	MP3-04	12.75 - 17.75	1.0000	1.0000
L46	14	MP3-04	12.75 - 17.75	1.0000	1.0000
L46	15	MP3-04	12.75 - 17.75	1.0000	1.0000
L46	21	CCI-65FP-060100	12.75 - 17.75	1.0000	1.0000
L46	22	CCI-65FP-060100	12.75 - 17.75	1.0000	1.0000
L46	23	CCI-65FP-060100	12.75 - 17.75	1.0000	1.0000
L46	43	HB158-1-08U8-S8J18(1-5/8)	12.75 - 17.75	1.0000	1.0000
L46	52	LDF7-50A(1-5/8)	12.75 - 17.75	1.0000	1.0000
L47	1	5.75" x 1" Flat Plate (G)	7.75 - 12.75	1.0000	1.0000
L47	2	5.75" x 1" Flat Plate (G)	7.75 - 12.75	1.0000	1.0000
L47	3	5.75" x 1" Flat Plate (G)	7.75 - 12.75	1.0000	1.0000
L47	13	MP3-04	7.75 - 12.75	1.0000	1.0000
L47	14	MP3-04	7.75 - 12.75	1.0000	1.0000
L47	15	MP3-04	7.75 - 12.75	1.0000	1.0000
L47	21	CCI-65FP-060100	7.75 - 12.75	1.0000	1.0000
L47	22	CCI-65FP-060100	7.75 - 12.75	1.0000	1.0000
L47	23	CCI-65FP-060100	7.75 - 12.75	1.0000	1.0000
L47	43	HB158-1-08U8-S8J18(1-5/8)	7.75 - 12.75	1.0000	1.0000
L47	52	LDF7-50A(1-5/8)	7.75 - 12.75	1.0000	1.0000
L48	1	5.75" x 1" Flat Plate (G)	2.75 - 7.75	1.0000	1.0000
L48	2	5.75" x 1" Flat Plate (G)	2.75 - 7.75	1.0000	1.0000
L48	3	5.75" x 1" Flat Plate (G)	2.75 - 7.75	1.0000	1.0000
L48	13	MP3-04	2.75 - 7.75	1.0000	1.0000
L48	14	MP3-04	2.75 - 7.75	1.0000	1.0000
L48	15	MP3-04	2.75 - 7.75	1.0000	1.0000
L48	21	CCI-65FP-060100	2.75 - 7.75	1.0000	1.0000
L48	22	CCI-65FP-060100	2.75 - 7.75	1.0000	1.0000
L48	23	CCI-65FP-060100	2.75 - 7.75	1.0000	1.0000
L48	43	HB158-1-08U8-S8J18(1-5/8)	2.75 - 7.75	1.0000	1.0000
L48	52	LDF7-50A(1-5/8)	2.75 - 7.75	1.0000	1.0000
L49	1	5.75" x 1" Flat Plate (G)	0.50 - 2.75	1.0000	1.0000
L49	2	5.75" x 1" Flat Plate (G)	0.50 - 2.75	1.0000	1.0000
L49	3	5.75" x 1" Flat Plate (G)	0.50 - 2.75	1.0000	1.0000
L49	13	MP3-04	0.50 - 2.75	1.0000	1.0000
L49	14	MP3-04	0.50 - 2.75	1.0000	1.0000
L49	15	MP3-04	0.50 - 2.75	1.0000	1.0000
L49	21	CCI-65FP-060100	0.50 - 2.75	1.0000	1.0000
L49	22	CCI-65FP-060100	0.50 - 2.75	1.0000	1.0000
L49	23	CCI-65FP-060100	0.50 - 2.75	1.0000	1.0000
L49	43	HB158-1-08U8-S8J18(1-5/8)	0.00 - 2.75	1.0000	1.0000
L49	52	LDF7-50A(1-5/8)	0.00 - 2.75	1.0000	1.0000

**Discrete Tower Loads**

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight	
			Horz	Lateral						Vert
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K	
(2) HBXX-6516DS-A2M w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	5.1800	3.9700	0.0498
			0.0000				1/2"	5.7000	4.4700	0.0944
			2.0000				Ice	6.2400	4.9800	0.1474
							1" Ice	7.3600	6.0600	0.2796
							2" Ice			
(2) HBXX-6516DS-A2M w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	5.1800	3.9700	0.0498
			0.0000				1/2"	5.7000	4.4700	0.0944
			2.0000				Ice	6.2400	4.9800	0.1474
							1" Ice	7.3600	6.0600	0.2796
							2" Ice			
(2) HBXX-6516DS-A2M w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	5.1800	3.9700	0.0498
			0.0000				1/2"	5.7000	4.4700	0.0944
			2.0000				Ice	6.2400	4.9800	0.1474
							1" Ice	7.3600	6.0600	0.2796
							2" Ice			
X7C-FRO-660-VR0 w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	8.8800	6.4400	0.0750
			0.0000				1/2"	9.6000	7.1300	0.1470
			2.0000				Ice	10.3400	7.8300	0.2301
							1" Ice	11.8700	9.2900	0.4306
							2" Ice			
X7C-FRO-660-VR0 w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	8.8800	6.4400	0.0750
			0.0000				1/2"	9.6000	7.1300	0.1470
			2.0000				Ice	10.3400	7.8300	0.2301
							1" Ice	11.8700	9.2900	0.4306
							2" Ice			
X7C-FRO-660-VR0 w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	8.8800	6.4400	0.0750
			0.0000				1/2"	9.6000	7.1300	0.1470
			2.0000				Ice	10.3400	7.8300	0.2301
							1" Ice	11.8700	9.2900	0.4306
							2" Ice			
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	7.4998	5.6302	0.0437
			0.0000				1/2"	8.0328	6.7191	0.1029
			2.0000				Ice	8.5348	7.5606	0.1695
							1" Ice	9.5641	9.2937	0.3290
							2" Ice			
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	7.4998	5.6302	0.0437
			0.0000				1/2"	8.0328	6.7191	0.1029
			2.0000				Ice	8.5348	7.5606	0.1695
							1" Ice	9.5641	9.2937	0.3290
							2" Ice			
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	7.4998	5.6302	0.0437
			0.0000				1/2"	8.0328	6.7191	0.1029
			2.0000				Ice	8.5348	7.5606	0.1695
							1" Ice	9.5641	9.2937	0.3290
							2" Ice			
AWS4 (B66) 4X45 RRH	A	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	2.6600	1.5861	0.0640
			0.0000				1/2"	2.8781	1.7690	0.0844
			2.0000				Ice	3.1037	1.9588	0.1078
							1" Ice	3.5770	2.3594	0.1650
							2" Ice			
AWS4 (B66) 4X45 RRH	B	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	2.6600	1.5861	0.0640
			0.0000				1/2"	2.8781	1.7690	0.0844
			2.0000				Ice	3.1037	1.9588	0.1078
							1" Ice	3.5770	2.3594	0.1650
							2" Ice			
AWS4 (B66) 4X45 RRH	C	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	2.6600	1.5861	0.0640
			0.0000				1/2"	2.8781	1.7690	0.0844
			2.0000				Ice	3.1037	1.9588	0.1078
							1" Ice	3.5770	2.3594	0.1650
							2" Ice			
RRH2X60-PCS	A	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	2.2000	1.7233	0.0550
			0.0000				1/2"	2.3926	1.9015	0.0754
			2.0000				Ice	2.5926	2.0870	0.0987
							1" Ice	3.0148	2.4804	0.1552
							2" Ice			

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub>		Weight	
			Horz	Lateral			Front	Side		
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K	
RRH2X60-PCS	B	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	2.2000	1.7233	0.0550
			0.0000				1/2"	2.3926	1.9015	0.0754
			2.0000				Ice	2.5926	2.0870	0.0987
							1" Ice	3.0148	2.4804	0.1552
							2" Ice			
RRH2X60-PCS	C	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	2.2000	1.7233	0.0550
			0.0000				1/2"	2.3926	1.9015	0.0754
			2.0000				Ice	2.5926	2.0870	0.0987
							1" Ice	3.0148	2.4804	0.1552
							2" Ice			
RRH2X60-700	A	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	3.5002	1.8157	0.0600
			0.0000				1/2"	3.7609	2.0519	0.0827
			2.0000				Ice	4.0285	2.2894	0.1091
							1" Ice	4.5849	2.7852	0.1734
							2" Ice			
RRH2X60-700	B	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	3.5002	1.8157	0.0600
			0.0000				1/2"	3.7609	2.0519	0.0827
			2.0000				Ice	4.0285	2.2894	0.1091
							1" Ice	4.5849	2.7852	0.1734
							2" Ice			
RRH2X60-700	C	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	3.5002	1.8157	0.0600
			0.0000				1/2"	3.7609	2.0519	0.0827
			2.0000				Ice	4.0285	2.2894	0.1091
							1" Ice	4.5849	2.7852	0.1734
							2" Ice			
(2) DB-T1-6Z-8AB-OZ	C	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	4.8000	2.0000	0.0440
			0.0000				1/2"	5.0704	2.1926	0.0801
			7.0000				Ice	5.3481	2.3926	0.1202
							1" Ice	5.9259	2.8148	0.2130
							2" Ice			
Platform Mount [LP 403-1]	C	None			0.0000	138.0000	No Ice	18.9400	18.9400	1.5000
							1/2"	23.3100	23.3100	1.9017
							Ice	27.7400	27.7400	2.3739
							1" Ice	36.7700	36.7700	3.5301
							2" Ice			
4' x 2" Pipe Mount	C	From Leg	4.0000	0.0000	0.0000	138.0000	No Ice	0.7852	0.7852	0.0290
			0.0000				1/2"	1.0284	1.0284	0.0353
			0.0000				Ice	1.2809	1.2809	0.0445
							1" Ice	1.8136	1.8136	0.0718
							2" Ice			
** DB636-C	C	None			0.0000	138.0000	No Ice	2.3750	2.3750	0.0300
							1/2"	3.3542	3.3542	0.0477
							Ice	4.3500	4.3500	0.0717
							1" Ice	5.5813	5.5813	0.1388
							2" Ice			
(2) HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	129.0000	No Ice	9.2200	6.2500	0.0736
			0.0000				1/2"	9.9800	6.9600	0.1434
			0.0000				Ice	10.7600	7.7000	0.2242
							1" Ice	12.3600	9.2200	0.4201
							2" Ice			
(2) HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	129.0000	No Ice	9.2200	6.2500	0.0736
			0.0000				1/2"	9.9800	6.9600	0.1434
			0.0000				Ice	10.7600	7.7000	0.2242
							1" Ice	12.3600	9.2200	0.4201
							2" Ice			
(2) HPA-65R-BUU-H6 w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	129.0000	No Ice	9.2200	6.2500	0.0736
			0.0000				1/2"	9.9800	6.9600	0.1434
			0.0000				Ice	10.7600	7.7000	0.2242
							1" Ice	12.3600	9.2200	0.4201
							2" Ice			
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	129.0000	No Ice	11.9600	5.9700	0.1147
			0.0000				1/2"	12.7000	6.6300	0.2009
			0.0000				Ice	13.4600	7.3000	0.2985

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight	
			Horz	Lateral						ft
							ft <sup>2</sup>	ft <sup>2</sup>	K	
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	15.0200	8.6900	0.5288
							2" Ice			
							No Ice	11.9600	5.9700	0.1147
							1/2" Ice	12.7000	6.6300	0.2009
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	13.4600	7.3000	0.2985
							2" Ice	15.0200	8.6900	0.5288
							No Ice	11.9600	5.9700	0.1147
							1/2" Ice	12.7000	6.6300	0.2009
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	129.0000	Ice	13.4600	7.3000	0.2985
							1" Ice	15.0200	8.6900	0.5288
							2" Ice			
							No Ice	12.2500	6.0500	0.0888
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	129.0000	1/2" Ice	13.0000	6.7100	0.1762
							Ice	13.7600	7.3900	0.2749
							1" Ice	15.3400	8.7900	0.5075
							2" Ice			
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	129.0000	No Ice	12.2500	6.0500	0.0888
							1/2" Ice	13.0000	6.7100	0.1762
							Ice	13.7600	7.3900	0.2749
							1" Ice	15.3400	8.7900	0.5075
RADIO 4415 B30	A	From Leg	4.0000	0.0000	0.0000	129.0000	2" Ice			
							No Ice	1.6431	0.6392	0.0429
							1/2" Ice	1.8031	0.7497	0.0550
							Ice	1.9706	0.8672	0.0694
RADIO 4415 B30	B	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	2.3277	1.1320	0.1061
							2" Ice			
							No Ice	1.6431	0.6392	0.0429
							1/2" Ice	1.8031	0.7497	0.0550
RADIO 4415 B30	C	From Leg	4.0000	0.0000	0.0000	129.0000	Ice	1.9706	0.8672	0.0694
							1" Ice	2.3277	1.1320	0.1061
							2" Ice			
							No Ice	1.6431	0.6392	0.0429
RRUS 32 B2	A	From Leg	4.0000	0.0000	0.0000	129.0000	1/2" Ice	1.8031	0.7497	0.0550
							Ice	1.9706	0.8672	0.0694
							1" Ice	2.3277	1.1320	0.1061
							2" Ice			
RRUS 32 B2	B	From Leg	4.0000	0.0000	0.0000	129.0000	No Ice	2.7313	1.6681	0.0529
							1/2" Ice	2.9531	1.8552	0.0740
							Ice	3.1823	2.0493	0.0982
							1" Ice	3.6628	2.4585	0.1571
RRUS 32 B2	C	From Leg	4.0000	0.0000	0.0000	129.0000	2" Ice			
							No Ice	2.7313	1.6681	0.0529
							1/2" Ice	2.9531	1.8552	0.0740
							Ice	3.1823	2.0493	0.0982
RRUS 32 B66A	A	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	3.6628	2.4585	0.1571
							2" Ice			
							No Ice	2.8635	1.7816	0.0551
							1/2" Ice	3.0897	1.9730	0.0774
RRUS 32 B66A	B	From Leg	4.0000	0.0000	0.0000	129.0000	Ice	3.3233	2.1713	0.1030
							1" Ice	3.8128	2.5890	0.1648
							2" Ice			
							No Ice	2.8635	1.7816	0.0551
RRUS 32 B66A	B	From Leg	4.0000	0.0000	0.0000	129.0000	1/2" Ice	3.0897	1.9730	0.0774
							Ice	3.3233	2.1713	0.1030
							1" Ice	3.8128	2.5890	0.1648

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Lateral	Vert					
			ft	ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K
RRUS 32 B66A	C	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	3.8128	2.5890	0.1648
							2" Ice	2.8635	1.7816	0.0551
							No Ice	3.0897	1.9730	0.0774
							1/2" Ice	3.3233	2.1713	0.1030
RRUS 4449 B5/B12	A	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	3.8128	2.5890	0.1648
							2" Ice	1.9675	1.4081	0.0710
							No Ice	2.1439	1.5637	0.0895
							1/2" Ice	2.3278	1.7267	0.1108
RRUS 4449 B5/B12	B	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	2.7177	2.0749	0.1627
							2" Ice	1.9675	1.4081	0.0710
							No Ice	2.1439	1.5637	0.0895
							1/2" Ice	2.3278	1.7267	0.1108
RRUS 4449 B5/B12	C	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	2.7177	2.0749	0.1627
							2" Ice	1.9675	1.4081	0.0710
							No Ice	2.1439	1.5637	0.0895
							1/2" Ice	2.3278	1.7267	0.1108
RRUS 4478 B14_CCIV2	A	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	2.7177	2.0749	0.1627
							2" Ice	1.9675	1.4081	0.0710
							No Ice	2.1439	1.5637	0.0895
							1/2" Ice	2.3278	1.7267	0.1108
RRUS 4478 B14_CCIV2	B	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	2.7177	2.0749	0.1627
							2" Ice	1.9675	1.4081	0.0710
							No Ice	2.1439	1.5637	0.0895
							1/2" Ice	2.3278	1.7267	0.1108
RRUS 4478 B14_CCIV2	C	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	2.7177	2.0749	0.1627
							2" Ice	1.9675	1.4081	0.0710
							No Ice	2.1439	1.5637	0.0895
							1/2" Ice	2.3278	1.7267	0.1108
(2) DC6-48-60-0-8C-EV	A	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	2.7804	1.8909	0.1473
							2" Ice	2.0212	1.2459	0.0594
							No Ice	2.1999	1.3960	0.0770
							1/2" Ice	2.3860	1.5536	0.0974
DC6-48-60-18-8C-EV	C	From Leg	4.0000	0.0000	0.0000	129.0000	1" Ice	2.7804	1.8909	0.1473
							2" Ice	2.0212	1.2459	0.0594
							No Ice	2.1999	1.3960	0.0770
							1/2" Ice	2.3860	1.5536	0.0974
Sector Mount [SM 503-3]	C	None				129.0000	1" Ice	2.7804	1.8909	0.1473
							2" Ice	2.0212	1.2459	0.0594
							No Ice	2.1999	1.3960	0.0770
							1/2" Ice	2.3860	1.5536	0.0974
**	A	From Leg	4.0000	0.0000	0.0000	120.0000	1" Ice	2.7357	4.7833	0.0262
							2" Ice	2.9620	5.0630	0.0633
							No Ice	3.1953	5.3501	0.1044
							1/2" Ice	3.6830	5.9465	0.1997
AIR 32 B2A B66AA w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	120.0000	1" Ice	3.6830	3.6830	0.1521
							2" Ice	2.7357	2.7357	0.0262
							No Ice	2.9620	2.9620	0.0522
							1/2" Ice	3.1953	3.1953	0.0817
AIR 32 B2A B66AA w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	120.0000	1" Ice	3.6830	3.6830	0.1521
							2" Ice	2.7357	2.7357	0.0262
							No Ice	2.9620	2.9620	0.0522
							1/2" Ice	3.1953	3.1953	0.0817
AIR 32 B2A B66AA w/ Mount Pipe	A	From Leg	4.0000	0.0000	0.0000	120.0000	1" Ice	30.4300	30.4300	1.6905
							2" Ice	43.0200	43.0200	2.2961
							No Ice	55.4300	55.4300	3.0974
							1/2" Ice	79.8900	79.8900	5.2687
AIR 32 B2A B66AA w/ Mount Pipe	B	From Leg	4.0000	0.0000	0.0000	120.0000	1" Ice	7.0872	6.3736	0.1647
							2" Ice	7.5606	7.2305	0.2280
							No Ice	8.0206	7.9731	0.2984
							1/2" Ice	8.9662	9.5071	0.4638
AIR 32 B2A B66AA w/ Mount Pipe	C	From Leg	4.0000	0.0000	0.0000	120.0000	1" Ice	7.0872	6.3736	0.1647
							2" Ice	7.5606	7.2305	0.2280
							No Ice	8.0206	7.9731	0.2984
							1/2" Ice	8.9662	9.5071	0.4638



Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	CAAA Front ft <sup>2</sup>	CAAA Side ft <sup>2</sup>	Weight K
			0.0000			Ice 8.0206	7.9731	0.2984
						1" Ice 8.9662	9.5071	0.4638
						2" Ice		
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 14.6900	6.8700	0.1862
						1/2" 15.4600	7.5500	0.3147
						Ice 16.2300	8.2500	0.4577
						1" Ice 17.8200	9.6700	0.7882
						2" Ice		
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 14.6900	6.8700	0.1862
						1/2" 15.4600	7.5500	0.3147
						Ice 16.2300	8.2500	0.4577
						1" Ice 17.8200	9.6700	0.7882
						2" Ice		
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 14.6900	6.8700	0.1862
						1/2" 15.4600	7.5500	0.3147
						Ice 16.2300	8.2500	0.4577
						1" Ice 17.8200	9.6700	0.7882
						2" Ice		
APX16DWV-16DWVS-E- A20 w/ Mount Pipe	A	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 6.2900	2.7600	0.0614
						1/2" 6.8600	3.2700	0.1050
						Ice 7.4500	3.7900	0.1574
						1" Ice 8.6800	4.9000	0.2897
						2" Ice		
APX16DWV-16DWVS-E- A20 w/ Mount Pipe	B	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 6.2900	2.7600	0.0614
						1/2" 6.8600	3.2700	0.1050
						Ice 7.4500	3.7900	0.1574
						1" Ice 8.6800	4.9000	0.2897
						2" Ice		
APX16DWV-16DWVS-E- A20 w/ Mount Pipe	C	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 6.2900	2.7600	0.0614
						1/2" 6.8600	3.2700	0.1050
						Ice 7.4500	3.7900	0.1574
						1" Ice 8.6800	4.9000	0.2897
						2" Ice		
RADIO 4449 B12/B71	A	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 1.6500	1.1625	0.0740
						1/2" 1.8104	1.3012	0.0902
						Ice 1.9781	1.4473	0.1090
						1" Ice 2.3359	1.7618	0.1552
						2" Ice		
RADIO 4449 B12/B71	B	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 1.6500	1.1625	0.0740
						1/2" 1.8104	1.3012	0.0902
						Ice 1.9781	1.4473	0.1090
						1" Ice 2.3359	1.7618	0.1552
						2" Ice		
RADIO 4449 B12/B71	C	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 1.6500	1.1625	0.0740
						1/2" 1.8104	1.3012	0.0902
						Ice 1.9781	1.4473	0.1090
						1" Ice 2.3359	1.7618	0.1552
						2" Ice		
KRY 112 489/2	A	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 0.5592	0.3651	0.0154
						1/2" 0.6579	0.4484	0.0205
						Ice 0.7640	0.5420	0.0271
						1" Ice 0.9984	0.7524	0.0458
						2" Ice		
KRY 112 489/2	B	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 0.5592	0.3651	0.0154
						1/2" 0.6579	0.4484	0.0205
						Ice 0.7640	0.5420	0.0271
						1" Ice 0.9984	0.7524	0.0458
						2" Ice		
KRY 112 489/2	C	From Leg	4.0000 0.0000 0.0000	0.0000	120.0000	No Ice 0.5592	0.3651	0.0154
						1/2" 0.6579	0.4484	0.0205
						Ice 0.7640	0.5420	0.0271
						1" Ice 0.9984	0.7524	0.0458
						2" Ice		
KRY 112 144/1	A	From Leg	4.0000 0.0000	0.0000	120.0000	No Ice 0.3500	0.1750	0.0110
						1/2" 0.4259	0.2343	0.0142

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K
			0.0000			Ice 0.5093	0.3009	0.0186
						1" Ice 0.6981	0.4565	0.0319
						2" Ice		
KRY 112 144/1	B	From Leg	4.0000	0.0000	120.0000	No Ice 0.3500	0.1750	0.0110
			0.0000			1/2" 0.4259	0.2343	0.0142
			0.0000			Ice 0.5093	0.3009	0.0186
						1" Ice 0.6981	0.4565	0.0319
						2" Ice		
KRY 112 144/1	C	From Leg	4.0000	0.0000	120.0000	No Ice 0.3500	0.1750	0.0110
			0.0000			1/2" 0.4259	0.2343	0.0142
			0.0000			Ice 0.5093	0.3009	0.0186
						1" Ice 0.6981	0.4565	0.0319
						2" Ice		
T-Arm Mount [TA 602-3]	C	None		0.0000	120.0000	No Ice 13.4000	13.4000	0.7743
						1/2" 16.4400	16.4400	1.0040
						Ice 19.7000	19.7000	1.2915
						1" Ice 25.8600	25.8600	2.0526
						2" Ice		
10' horizontal x 2" Pipe Mount	A	From Leg	4.0000	0.0000	120.0000	No Ice 1.9000	0.0100	0.0272
			0.0000			1/2" 2.9200	0.0400	0.0420
			0.0000			Ice 3.9700	0.0900	0.0632
						1" Ice 5.6500	0.2100	0.1257
						2" Ice		
10' horizontal x 2" Pipe Mount	B	From Leg	4.0000	0.0000	120.0000	No Ice 1.9000	0.0100	0.0272
			0.0000			1/2" 2.9200	0.0400	0.0420
			0.0000			Ice 3.9700	0.0900	0.0632
						1" Ice 5.6500	0.2100	0.1257
						2" Ice		
10' horizontal x 2" Pipe Mount	C	From Leg	4.0000	0.0000	120.0000	No Ice 1.9000	0.0100	0.0272
			0.0000			1/2" 2.9200	0.0400	0.0420
			0.0000			Ice 3.9700	0.0900	0.0632
						1" Ice 5.6500	0.2100	0.1257
						2" Ice		
** DT465B-2XR w/ Mount Pipe	A	From Leg	4.0000	0.0000	73.0000	No Ice 5.5000	4.3800	0.0908
			0.0000			1/2" 5.9700	4.8400	0.1639
			2.0000			Ice 6.4500	5.3000	0.2480
						1" Ice 7.4400	6.2600	0.4507
						2" Ice		
DT465B-2XR w/ Mount Pipe	B	From Leg	4.0000	0.0000	73.0000	No Ice 5.5000	4.3800	0.0908
			0.0000			1/2" 5.9700	4.8400	0.1639
			2.0000			Ice 6.4500	5.3000	0.2480
						1" Ice 7.4400	6.2600	0.4507
						2" Ice		
DT465B-2XR w/ Mount Pipe	C	From Leg	4.0000	0.0000	73.0000	No Ice 5.5000	4.3800	0.0908
			0.0000			1/2" 5.9700	4.8400	0.1639
			2.0000			Ice 6.4500	5.3000	0.2480
						1" Ice 7.4400	6.2600	0.4507
						2" Ice		
APXVSP18-C-A20 w/ Mount Pipe	A	From Leg	4.0000	0.0000	73.0000	No Ice 4.6000	4.0100	0.0951
			0.0000			1/2" 5.0500	4.4500	0.1595
			2.0000			Ice 5.5000	4.8900	0.2348
						1" Ice 6.4400	5.8200	0.4191
						2" Ice		
APXVSP18-C-A20 w/ Mount Pipe	B	From Leg	4.0000	0.0000	73.0000	No Ice 4.6000	4.0100	0.0951
			0.0000			1/2" 5.0500	4.4500	0.1595
			2.0000			Ice 5.5000	4.8900	0.2348
						1" Ice 6.4400	5.8200	0.4191
						2" Ice		
APXVSP18-C-A20 w/ Mount Pipe	C	From Leg	4.0000	0.0000	73.0000	No Ice 4.6000	4.0100	0.0951
			0.0000			1/2" 5.0500	4.4500	0.1595
			2.0000			Ice 5.5000	4.8900	0.2348
						1" Ice 6.4400	5.8200	0.4191
						2" Ice		
RRH2x50-800	A	From Leg	4.0000	0.0000	73.0000	No Ice 1.7008	1.2822	0.0529

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
			0.0000			1/2"	1.8640	1.4275	0.0699
			2.0000			Ice	2.0345	1.5803	0.0896
						1" Ice	2.3979	1.9081	0.1379
						2" Ice			
RRH2x50-800	B	From Leg	4.0000	0.0000	73.0000	No Ice	1.7008	1.2822	0.0529
			0.0000			1/2"	1.8640	1.4275	0.0699
			2.0000			Ice	2.0345	1.5803	0.0896
						1" Ice	2.3979	1.9081	0.1379
						2" Ice			
RRH2x50-800	C	From Leg	4.0000	0.0000	73.0000	No Ice	1.7008	1.2822	0.0529
			0.0000			1/2"	1.8640	1.4275	0.0699
			2.0000			Ice	2.0345	1.5803	0.0896
						1" Ice	2.3979	1.9081	0.1379
						2" Ice			
FZHN	A	From Leg	4.0000	0.0000	73.0000	No Ice	2.0197	0.6068	0.0441
			0.0000			1/2"	2.1967	0.7146	0.0581
			2.0000			Ice	2.3811	0.8294	0.0747
						1" Ice	2.7723	1.0888	0.1161
						2" Ice			
FZHN	B	From Leg	4.0000	0.0000	73.0000	No Ice	2.0197	0.6068	0.0441
			0.0000			1/2"	2.1967	0.7146	0.0581
			2.0000			Ice	2.3811	0.8294	0.0747
						1" Ice	2.7723	1.0888	0.1161
						2" Ice			
FZHN	C	From Leg	4.0000	0.0000	73.0000	No Ice	2.0197	0.6068	0.0441
			0.0000			1/2"	2.1967	0.7146	0.0581
			2.0000			Ice	2.3811	0.8294	0.0747
						1" Ice	2.7723	1.0888	0.1161
						2" Ice			
1900MHZ 4X40W RRH	A	From Leg	4.0000	0.0000	73.0000	No Ice	2.3218	2.2360	0.0595
			0.0000			1/2"	2.5266	2.4385	0.0826
			2.0000			Ice	2.7388	2.6485	0.1090
						1" Ice	3.1855	3.0906	0.1722
						2" Ice			
1900MHZ 4X40W RRH	B	From Leg	4.0000	0.0000	73.0000	No Ice	2.3218	2.2360	0.0595
			0.0000			1/2"	2.5266	2.4385	0.0826
			2.0000			Ice	2.7388	2.6485	0.1090
						1" Ice	3.1855	3.0906	0.1722
						2" Ice			
1900MHZ 4X40W RRH	C	From Leg	4.0000	0.0000	73.0000	No Ice	2.3218	2.2360	0.0595
			0.0000			1/2"	2.5266	2.4385	0.0826
			2.0000			Ice	2.7388	2.6485	0.1090
						1" Ice	3.1855	3.0906	0.1722
						2" Ice			
Platform Mount [LP 1201-1]	C	None		0.0000	73.0000	No Ice	18.3800	18.3800	2.1000
						1/2"	22.1100	22.1100	2.6519
						Ice	25.8700	25.8700	3.2630
						1" Ice	33.4700	33.4700	4.6624
						2" Ice			
Miscellaneous [NA 510-1]	C	None		0.0000	73.0000	No Ice	6.3600	6.3600	0.2557
						1/2"	8.5200	8.5200	0.3438
						Ice	10.6200	10.6200	0.4587
						1" Ice	14.6400	14.6400	0.7690
						2" Ice			
(2) 6' x 2" Mount Pipe	A	From Leg	4.0000	0.0000	73.0000	No Ice	1.4250	1.4250	0.0220
			0.0000			1/2"	1.9250	1.9250	0.0328
			0.0000			Ice	2.2939	2.2939	0.0477
						1" Ice	3.0596	3.0596	0.0903
						2" Ice			
(2) 6' x 2" Mount Pipe	B	From Leg	4.0000	0.0000	73.0000	No Ice	1.4250	1.4250	0.0220
			0.0000			1/2"	1.9250	1.9250	0.0328
			0.0000			Ice	2.2939	2.2939	0.0477
						1" Ice	3.0596	3.0596	0.0903
						2" Ice			
(2) 6' x 2" Mount Pipe	C	From Leg	4.0000	0.0000	73.0000	No Ice	1.4250	1.4250	0.0220

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
			0.0000 0.0000			1/2" Ice 1" Ice 2" Ice	1.9250 2.2939 3.0596 3.0596	1.9250 2.2939 3.0596 3.0596	0.0328 0.0477 0.0903
**									
GPS-TMG-HR-26NCM	C	From Leg	1.0000 0.0000 0.0000	0.0000	50.0000	No Ice 1/2" Ice 1" Ice 2" Ice	0.1333 0.1826 0.2393 0.3748 0.3748	0.1333 0.1826 0.2393 0.3748 0.3748	0.0006 0.0024 0.0051 0.0141
Pipe Mount [PM 601-1]	C	From Leg	0.5000 0.0000 0.0000	0.0000	50.0000	No Ice 1/2" Ice 1" Ice 2" Ice	1.3200 1.5800 1.8400 2.4000 2.4000	1.3200 1.5800 1.8400 2.4000 2.4000	0.0650 0.0775 0.0930 0.1338
**									

## Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp

Comb. No.	Description
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

### Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	140 - 135	Pole	Max Tension	20	0.0000	-0.0000	0.0000
			Max. Compression	26	-8.5131	1.6258	-0.9250
			Max. Mx	20	-2.8648	26.1164	-1.2980
			Max. My	14	-2.8610	1.4971	-24.7118
			Max. Vy	8	5.4153	-25.0093	0.8120
			Max. Vx	2	-5.3071	-0.6121	24.0719
			Max. Torque	12			-1.0130
L2	135 - 130	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-8.9471	1.6261	-0.9019
			Max. Mx	20	-3.1120	53.7162	-1.8359
			Max. My	14	-3.1049	2.0546	-51.7938
			Max. Vy	8	5.6311	-52.6204	1.3712
			Max. Vx	2	-5.5310	-1.1516	51.1603
			Max. Torque	12			-1.0128
L3	130 - 125	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-20.7283	2.1159	0.2888
			Max. Mx	20	-6.9824	108.4976	-2.3472
			Max. My	14	-6.9625	2.7111	-105.2653
			Max. Vy	8	12.3395	-107.1698	1.9986
			Max. Vx	2	-12.1230	-1.6336	105.0781
			Max. Torque	16			-1.5655
L4	125 - 120	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-21.2562	2.1126	0.3306
			Max. Mx	20	-7.3961	170.6308	-2.9031
			Max. My	14	-7.3700	3.2908	-166.3338
			Max. Vy	8	12.5327	-169.3263	2.5854
			Max. Vx	2	-12.3188	-2.1963	166.1563
			Max. Torque	16			-1.5645
L5	120 - 115	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-28.6342	1.9014	0.4927
			Max. Mx	20	-10.4548	250.2678	-3.4241
			Max. My	14	-10.3670	3.8094	-245.8128
			Max. Vy	8	16.0401	-249.1502	3.2262
			Max. Vx	2	-16.1625	-2.8389	245.7360
			Max. Torque	16			-1.5626
L6	115 - 114.75	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-28.6943	1.8903	0.5022
			Max. Mx	20	-10.5107	254.2718	-3.4499
			Max. My	14	-10.4214	3.8345	-249.8512
			Max. Vy	8	16.0503	-253.1639	3.2580
			Max. Vx	2	-16.1838	-2.8715	249.7799
			Max. Torque	16			-1.5605
L7	114.75 - 109.75	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-29.8992	1.6579	0.6679
			Max. Mx	20	-11.2655	335.4183	-3.9655
			Max. My	2	-11.1471	-3.5211	332.3005
			Max. Vy	8	16.4945	-334.5863	3.8959
			Max. Vx	2	-16.8180	-3.5211	332.3005

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L8	109.75 - 104.75	Pole	Max. Torque	16			-1.5603
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-31.1260	1.4109	0.8399
			Max. Mx	20	-12.0578	418.6108	-4.4787
			Max. My	2	-11.9160	-4.1760	417.9660
			Max. Vy	8	16.9339	-418.2047	4.5337
			Max. Vx	2	-17.4462	-4.1760	417.9660
L9	104.75 - 101.58	Pole	Max. Torque	16			-1.5591
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-31.9051	1.2471	0.9515
			Max. Mx	8	-12.5593	-472.3517	4.9378
			Max. My	2	-12.4208	-4.5931	473.8958
			Max. Vy	8	17.2091	-472.3517	4.9378
			Max. Vx	2	-17.8380	-4.5931	473.8958
L10	101.58 - 101.33	Pole	Max. Torque	16			-1.5577
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-31.9561	1.2341	0.9614
			Max. Mx	8	-12.6073	-476.6577	4.9696
			Max. My	2	-12.4678	-4.6259	478.3592
			Max. Vy	8	17.2131	-476.6577	4.9696
			Max. Vx	2	-17.8600	-4.6259	478.3592
L11	101.33 - 96.33	Pole	Max. Torque	16			-1.5569
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-32.9926	0.9640	1.1397
			Max. Mx	8	-13.3933	-563.3179	5.6048
			Max. My	2	-13.2285	-5.2786	569.0322
			Max. Vy	8	17.4277	-563.3179	5.6048
			Max. Vx	2	-18.4067	-5.2786	569.0322
L12	96.33 - 91.33	Pole	Max. Torque	16			-1.5567
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-34.1134	0.6811	1.3225
			Max. Mx	8	-14.2198	-650.9983	6.2367
			Max. My	2	-14.0375	-5.9400	662.4000
			Max. Vy	8	17.6302	-650.9983	6.2367
			Max. Vx	2	-18.9461	-5.9400	662.4000
L13	91.33 - 91	Pole	Max. Torque	16			-1.5548
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-34.1954	0.6621	1.3355
			Max. Mx	8	-14.2856	-656.8228	6.2782
			Max. My	2	-14.1043	-5.9842	668.6576
			Max. Vy	8	17.6468	-656.8228	6.2782
			Max. Vx	2	-18.9738	-5.9842	668.6576
L14	91 - 90.75	Pole	Max. Torque	16			-1.5532
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-34.2760	0.6476	1.3461
			Max. Mx	8	-14.3447	-661.2416	6.3098
			Max. My	2	-14.1634	-6.0176	673.4068
			Max. Vy	8	17.6681	-661.2416	6.3098
			Max. Vx	2	-19.0037	-6.0176	673.4068
L15	90.75 - 85.75	Pole	Max. Torque	16			-1.5531
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-35.8953	0.3519	1.5316
			Max. Mx	8	-15.4626	-750.8665	6.9414
			Max. My	2	-15.2756	-6.6844	770.0467
			Max. Vy	8	18.1517	-750.8665	6.9414
			Max. Vx	2	-19.6429	-6.6844	770.0467
L16	85.75 - 80.75	Pole	Max. Torque	16			-1.5530
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-37.5442	0.0455	1.7236
			Max. Mx	8	-16.6174	-842.8839	7.5738
			Max. My	2	-16.4283	-7.3553	869.8549
			Max. Vy	8	18.6303	-842.8839	7.5738

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L17	80.75 - 75.75	Pole	Max. Vx	14	20.2777	7.1003	-867.5462
			Max. Torque	16			-1.5521
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-39.2225	-0.2710	1.9201
			Max. Mx	8	-17.8007	-937.2957	8.2067
			Max. My	2	-17.6121	-8.0294	972.8166
L18	75.75 - 70.75	Pole	Max. Vy	8	19.1092	-937.2957	8.2067
			Max. Vx	14	20.9412	7.5496	-970.4733
			Max. Torque	16			-1.5512
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-49.3419	-0.5986	2.1227
			Max. Mx	8	-23.1183	-	8.8438
L19	70.75 - 69.98	Pole				1042.3568	
			Max. My	2	-22.9221	-8.7106	1087.2365
			Max. Vy	8	22.1617	-	8.8438
						1042.3568	
			Max. Vx	14	24.1948	7.9958	-
							1085.0031
L20	69.98 - 69.73	Pole	Max. Torque	16			-1.5504
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-49.6379	-0.6501	2.1548
			Max. Mx	8	-23.3192	-	8.9426
			Max. My	2	-23.1237	-8.8165	1105.8604
			Max. Vy	8	22.2344	-	8.9426
L21	69.73 - 64.73	Pole				1059.4594	
			Max. Vx	14	24.2977	8.0644	-
							1103.6534
			Max. Torque	16			-1.5496
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-49.7342	-0.6671	2.1671
L22	64.73 - 63	Pole	Max. Mx	8	-23.3899	-	8.9747
						1065.0247	
			Max. My	2	-23.1953	-8.8511	1111.9248
			Max. Vy	8	22.2525	-	8.9747
						1065.0247	
			Max. Vx	14	24.3255	8.0866	-
L23	63 - 62.75	Pole					1109.7262
			Max. Torque	16			-1.5496
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-51.5753	-1.0072	2.3744
			Max. Mx	8	-24.6826	-	9.6155
						1177.5525	
L22	64.73 - 63	Pole	Max. My	2	-24.4912	-9.5387	1234.9307
			Max. Vy	8	22.7276	-	9.6155
						1177.5525	
			Max. Vx	14	24.9753	8.5283	-
							1232.8583
			Max. Torque	16			-1.5495
L22	64.73 - 63	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-52.2519	-1.1268	2.4473
			Max. Mx	8	-25.1313	-	9.8370
						1217.0367	
			Max. My	2	-24.9407	-9.7772	1278.2636
			Max. Vy	8	22.9047	-	9.8370
L23	63 - 62.75	Pole				1217.0367	
			Max. Vx	14	25.2186	8.6793	-
							1276.2187
			Max. Torque	16			-1.5486
L23	63 - 62.75	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-52.3684	-1.1447	2.4610
			Max. Mx	8	-25.2332	-	9.8689
						1222.7668	
						1284.5595	

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
L24	62.75 - 59.08	Pole	Max. Vy	8	22.9110	-	9.8689	
			Max. Vx	14	25.2337	1222.7668	-	
			Max. Torque	16		8.7009	1282.5183	-
			Max Tension	1	0.0000	0.0000	-1.5485	0.0000
			Max. Compression	26	-54.1193	-1.4019	2.6151	
			Max. Mx	8	-26.4501	-	10.3387	
			Max. My	2	-26.2637	-10.3188	1378.0175	
			Max. Vy	8	23.3146	-	10.3387	
L25	59.08 - 58.82	Pole	Max. Vx	14	25.7841	1307.6540	-	
			Max. Torque	16		9.0183	1376.0490	-
			Max Tension	1	0.0000	0.0000	-1.5485	0.0000
			Max. Compression	26	-54.2437	-1.4207	2.6287	
			Max. Mx	8	-26.5421	-	10.3719	
			Max. My	2	-26.3575	-10.3549	1384.7129	
			Max. Vy	8	23.3326	-	10.3719	
			Max. Vx	14	25.8126	1313.7228	-	
L26	58.82 - 58.67	Pole	Max. Torque	16		9.0406	1382.7505	-
			Max Tension	1	0.0000	0.0000	-1.5481	0.0000
			Max. Compression	26	-54.3154	-1.4318	2.6375	
			Max. Mx	8	-26.5912	-	10.3912	
			Max. My	2	-26.4069	-10.3758	1388.5801	
			Max. Vy	8	23.3476	-	10.3912	
			Max. Vx	14	25.8339	1317.2273	-	
			Max. Torque	16		9.0535	1386.6214	-
L27	58.67 - 53.67	Pole	Max Tension	1	0.0000	0.0000	-1.5481	0.0000
			Max. Compression	26	-56.6128	-1.7789	2.8379	
			Max. Mx	8	-28.1876	-	11.0309	
			Max. My	2	-28.0107	-11.0683	1519.1772	
			Max. Vy	8	23.8669	-	11.0309	
			Max. Vx	14	26.5492	1435.3544	-	
			Max. Torque	16		9.4798	1517.4586	-
			Max Tension	1	0.0000	0.0000	-1.5480	0.0000
L28	53.67 - 48.58	Pole	Max. Compression	26	-56.9195	-1.8258	2.8653	
			Max. Mx	8	-28.4095	-	11.1167	
			Max. My	2	-28.2346	-11.1615	1536.9277	
			Max. Vy	8	23.9286	-	11.1167	
			Max. Vx	14	26.6348	1451.3771	-	
			Max. Torque	16		9.5361	1535.2575	-
			Max Tension	1	0.0000	0.0000	-1.5475	0.0000
			Max. Compression	26	-60.8987	-1.9909	2.9603	
L29	48.58 - 47.58	Pole	Max. Mx	8	-31.3285	-	11.7384	
			Max. My	2	-31.1561	-11.7888	1683.0156	
			Max. Vy	8	24.6120	-	11.7384	
			Max. Vx	14	27.5193	1582.9255	-	
			Max. Torque	16		10.1196	1582.9255	-
			Max Tension	1	0.0000	0.0000	-1.5475	0.0000
			Max. Compression	26	-60.8987	-1.9909	2.9603	
			Max. Mx	8	-31.3285	-	11.7384	



Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L30	47.58 - 42.58	Pole	Max. Torque	16			1681.9963
			Max Tension	1	0.0000	0.0000	-1.5913
			Max. Compression	26	-63.1661	-2.3442	3.1642
			Max. Mx	8	-32.9677	-	12.3785
			Max. My	2	-32.8077	-12.4854	1707.2069
			Max. Vy	8	25.0747	-	1821.5111
			Max. Vx	14	28.1450	1707.2069	12.3785
						10.5363	-
L31	42.58 - 39.67	Pole	Max. Torque	16			1820.9979
			Max Tension	1	0.0000	0.0000	-1.5912
			Max. Compression	26	-64.5565	-2.5533	3.2847
			Max. Mx	8	-33.9314	-	12.7504
			Max. My	2	-33.7787	-12.8914	1780.6126
			Max. Vy	8	25.3555	-	1903.5703
			Max. Vx	14	28.5292	1780.6126	12.7504
						10.7753	-
L32	39.67 - 39.42	Pole	Max. Torque	16			1903.3557
			Max Tension	1	0.0000	0.0000	-1.5907
			Max. Compression	26	-64.6971	-2.5720	3.2980
			Max. Mx	8	-34.0462	-	12.7823
			Max. My	2	-33.8968	-12.9264	1786.9565
			Max. Vy	8	25.3629	-	1910.6706
			Max. Vx	14	28.5448	1786.9565	12.7823
						10.7956	-
L33	39.42 - 34.42	Pole	Max. Torque	16			1910.4826
			Max Tension	1	0.0000	0.0000	-1.5906
			Max. Compression	26	-67.5053	-2.9371	3.5066
			Max. Mx	8	-36.0596	-	13.4208
			Max. My	14	-35.9146	1915.1654	11.2006
			Max. Vy	8	25.8793	-	2054.8247
			Max. Vx	14	29.2436	1915.1654	13.4208
						11.2006	-
L34	34.42 - 32.5	Pole	Max. Torque	16			2054.8247
			Max Tension	1	0.0000	0.0000	-1.5905
			Max. Compression	26	-68.6148	-3.0794	3.5884
			Max. Mx	8	-36.8371	-	13.6659
			Max. My	14	-36.6951	1965.0750	11.3545
			Max. Vy	20	-26.0944	1953.0940	2111.1678
			Max. Vx	14	29.5184	1965.0750	-11.5900
						11.3545	-
L35	32.5 - 32.25	Pole	Max. Torque	16			2111.1678
			Max Tension	1	0.0000	0.0000	-1.5902
			Max. Compression	26	-68.7460	-3.0983	3.6011
			Max. Mx	8	-36.9370	-	13.6977
			Max. My	14	-36.7989	1971.6011	11.3744
			Max. Vy	20	-26.1028	1959.6079	2118.5402
			Max. Vx	14	29.5239	1971.6011	-11.6131
						11.3744	-
L36	32.25 - 31.42	Pole	Max. Torque	16			2118.5402
			Max Tension	1	0.0000	0.0000	-1.5901
						0.0000	

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
L37	31.42 - 31.17	Pole	Max. Compression	26	-69.1815	-3.1599	3.6351	
			Max. Mx	8	-37.2179	-	13.8036	
			Max. My	14	-37.0819	1993.3102	-	2143.0626
			Max. Vy	20	-26.1926	1981.2777	-11.6897	-
			Max. Vx	14	29.6186	11.4404	-	2143.0626
			Max. Torque	16	-	-	-1.5901	-
			Max Tension	1	0.0000	0.0000	0.0000	0.0000
			Max. Compression	26	-69.3305	-3.1790	3.6481	-
			Max. Mx	8	-37.3279	-	13.8355	-
			Max. My	14	-37.1943	1999.8621	-	2150.4630
			Max. Vy	20	-26.2116	1987.8187	-11.7126	-
			Max. Vx	14	29.6358	11.4602	-	2150.4630
L38	31.17 - 29	Pole	Max. Torque	16	-	-	-1.5901	
			Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-70.6163	-3.3214	3.7150	-
			Max. Mx	8	-38.2166	-	14.1122	-
			Max. My	14	-38.0872	2057.0007	-	2215.0483
			Max. Vy	20	-26.4444	2044.8644	-11.9119	-
			Max. Vx	14	29.9430	11.6320	-	2215.0483
			Max. Torque	16	-	-	-1.5900	-
			Max Tension	1	0.0000	0.0000	0.0000	0.0000
			Max. Compression	26	-70.8137	-3.3445	3.7270	-
			Max. Mx	8	-38.3602	-	14.1567	-
			Max. My	14	-38.2335	2066.2613	-	2225.5235
L39	29 - 28.65	Pole	Max. Vy	20	-26.4708	2054.1106	-11.9439	
			Max. Vx	14	29.9705	11.6596	-	2225.5235
			Max. Torque	16	-	-	-1.5899	-
			Max Tension	1	0.0000	0.0000	0.0000	0.0000
			Max. Compression	26	-70.8137	-3.3445	3.7270	-
			Max. Mx	8	-38.3602	-	14.1567	-
			Max. My	14	-38.2335	2066.2613	-	2225.5235
			Max. Vy	20	-26.4708	2054.1106	-11.9439	-
			Max. Vx	14	29.9705	11.6596	-	2225.5235
			Max. Torque	16	-	-	-1.5899	-
			Max Tension	1	0.0000	0.0000	0.0000	0.0000
			L40	28.65 - 28.42	Pole	Max. Compression	26	-70.9435
Max. Mx	8	-38.4518				-	14.1860	
Max. My	14	-38.3262				2072.3534	-	2232.4143
Max. Vy	20	-26.4930				2060.1933	-11.9650	-
Max. Vx	14	29.9930				11.6777	-	2232.4143
Max. Torque	16	-				-	-1.5899	-
Max Tension	1	0.0000				0.0000	0.0000	0.0000
Max. Compression	26	-73.6820				-3.6842	3.8875	-
Max. Mx	8	-40.3788				-	14.8121	-
Max. My	14	-40.2709				2203.8908	-	2381.1150
Max. Vy	20	-26.9798				2191.5236	-12.4125	-
Max. Vx	14	30.5143				12.0611	-	2381.1150
L41	28.42 - 23.5	Pole	Max. Torque	16	-	-	-1.5899	
			Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-73.6820	-3.6842	3.8875	-
			Max. Mx	8	-40.3788	-	14.8121	-
			Max. My	14	-40.2709	2203.8908	-	2381.1150
			Max. Vy	20	-26.9798	2191.5236	-12.4125	-
			Max. Vx	14	30.5143	12.0611	-	2381.1150
			Max. Torque	16	-	-	-1.5899	-
			Max Tension	1	0.0000	0.0000	0.0000	0.0000
			Max. Compression	26	-73.8420	-3.7012	3.8973	-
			Max. Mx	8	-40.5062	-	14.8438	-
			Max. My	14	-40.4013	2210.6374	-	2388.7377
L42	23.5 - 23.25	Pole	Max. Vy	20	-26.9925	2198.2597	-12.4352	
			Max. Vx	14	30.5260	12.0803	-	-
			Max. Torque	16	-	-	-1.5899	-
			Max Tension	1	0.0000	0.0000	0.0000	0.0000
			Max. Compression	26	-73.8420	-3.7012	3.8973	-
			Max. Mx	8	-40.5062	-	14.8438	-
			Max. My	14	-40.4013	2210.6374	-	2388.7377
			Max. Vy	20	-26.9925	2198.2597	-12.4352	-
			Max. Vx	14	30.5260	12.0803	-	-
			Max. Torque	16	-	-	-1.5899	-
			Max Tension	1	0.0000	0.0000	0.0000	0.0000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L43	23.25 - 23	Pole	Max. Torque	16			2388.7377
			Max Tension	1	0.0000	0.0000	-1.5896
			Max. Compression	26	-74.0020	-3.7178	0.0000
			Max. Mx	8	-40.6235	-	3.9053
						2217.3904	14.8755
			Max. My	14	-40.5195	12.0996	-
			Max. Vy	20	-27.0185	2205.0020	2396.3673
			Max. Vx	14	30.5540	12.0996	-12.4577
L44	23 - 22.75	Pole	Max. Torque	16			2396.3673
			Max Tension	1	0.0000	0.0000	-1.5896
			Max. Compression	26	-74.1498	-3.7345	0.0000
			Max. Mx	8	-40.7290	-	3.9128
						2224.1497	14.9073
			Max. My	14	-40.6259	12.1189	-
			Max. Vy	20	-27.0437	2211.7507	2404.0038
			Max. Vx	14	30.5811	12.1189	-12.4803
L45	22.75 - 17.75	Pole	Max. Torque	16			2404.0038
			Max Tension	1	0.0000	0.0000	-1.5896
			Max. Compression	26	-77.0391	-4.1028	0.0000
			Max. Mx	8	-42.8422	-	4.1125
						2360.5785	15.5414
			Max. My	14	-42.7586	12.5002	-
			Max. Vy	20	-27.5271	2347.9638	2558.0672
			Max. Vx	14	31.1030	12.5002	-12.9290
L46	17.75 - 12.75	Pole	Max. Torque	16			2558.0672
			Max Tension	1	0.0000	0.0000	-1.5896
			Max. Compression	26	-79.9035	-4.4924	0.0000
			Max. Mx	8	-44.9894	-	4.3373
						2499.3543	16.1731
			Max. My	14	-44.9278	12.8739	-
			Max. Vy	20	-27.9931	2486.5198	2714.6496
			Max. Vx	14	31.6032	12.8739	-13.3719
L47	12.75 - 7.75	Pole	Max. Torque	16			2714.6496
			Max Tension	1	0.0000	0.0000	-1.5894
			Max. Compression	26	-82.7641	-4.8833	0.0000
			Max. Mx	8	-47.1630	-	4.5629
						2640.4595	16.8022
			Max. My	14	-47.1241	13.2398	-
			Max. Vy	20	-28.4601	2627.4011	2873.7249
			Max. Vx	14	32.1026	13.2398	-13.8087
L48	7.75 - 2.75	Pole	Max. Torque	16			2873.7249
			Max Tension	1	0.0000	0.0000	-1.5892
			Max. Compression	26	-85.5999	-5.2702	0.0000
			Max. Mx	8	-49.3631	-	4.7862
						2783.8983	17.4282
			Max. My	14	-49.3477	13.5975	-
			Max. Vy	20	-28.9278	2770.6119	3035.2888
			Max. Vx	14	32.6010	13.5975	-14.2392
L49	2.75 - 0	Pole	Max. Torque	16			3035.2888
			Max Tension	1	0.0000	0.0000	-1.5891
			Max. Compression	26	-87.0931	-5.4736	0.0000
			Max. Mx	8	-50.5829	-	4.9035
						2863.7789	17.7712
			13.7908	-			

Sectio n No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	20	-29.1862	2850.3655	3125.1954
			Max. Vx	14	32.8718	13.7908	-14.4731
							-
			Max. Torque	16			3125.1954
							-1.5891

### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	87.0931	-0.0181	6.8295
	Max. H <sub>x</sub>	20	50.5972	29.1616	-0.1046
	Max. H <sub>z</sub>	2	50.5972	-0.1046	32.5551
	Max. M <sub>x</sub>	2	3118.4675	-0.1046	32.5551
	Max. M <sub>z</sub>	8	2863.7789	-29.1385	0.1046
	Max. Torsion	4	1.4161	-14.6972	25.1286
	Min. Vert	17	37.9479	14.6341	-25.0193
	Min. H <sub>x</sub>	9	37.9479	-29.1385	0.1046
	Min. H <sub>z</sub>	15	37.9479	0.1046	-32.8448
	Min. M <sub>x</sub>	14	-3125.1954	0.1046	-32.8448
	Min. M <sub>z</sub>	20	-2850.3655	29.1616	-0.1046
	Min. Torsion	16	-1.5891	14.6341	-25.0193

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturing Moment, M <sub>x</sub> kip-ft	Overturing Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	42.1643	0.0000	0.0000	-1.3349	-1.8850	-0.0000
1.2 Dead+1.0 Wind 0 deg - No Ice	50.5972	0.1046	-32.5551	-3118.4675	-18.4454	-0.1656
0.9 Dead+1.0 Wind 0 deg - No Ice	37.9479	0.1046	-32.5551	-3079.9773	-17.5938	-0.1428
1.2 Dead+1.0 Wind 30 deg - No Ice	50.5972	14.6972	-25.1286	-2449.1784	-1443.3415	-1.4161
0.9 Dead+1.0 Wind 30 deg - No Ice	37.9479	14.6972	-25.1286	-2418.1538	-1424.6469	-1.4000
1.2 Dead+1.0 Wind 60 deg - No Ice	50.5972	25.8008	-14.8278	-1434.3378	-2499.9438	-1.2948
0.9 Dead+1.0 Wind 60 deg - No Ice	37.9479	25.8008	-14.8278	-1416.0350	-2468.1532	-1.2870
1.2 Dead+1.0 Wind 90 deg - No Ice	50.5972	29.1385	-0.1046	-17.7711	-2863.7789	-0.8248
0.9 Dead+1.0 Wind 90 deg - No Ice	37.9479	29.1385	-0.1046	-17.0864	-2827.2953	-0.8273
1.2 Dead+1.0 Wind 120 deg - No Ice	50.5972	26.5932	15.1644	1472.2629	-2603.5703	-0.4340
0.9 Dead+1.0 Wind 120 deg - No Ice	37.9479	26.5932	15.1644	1454.4407	-2570.6249	-0.4482
1.2 Dead+1.0 Wind 150 deg - No Ice	50.5972	16.6311	28.6874	2682.9488	-1561.5811	-0.5347
0.9 Dead+1.0 Wind 150 deg - No Ice	37.9479	16.6311	28.6874	2650.7470	-1542.0205	-0.5585
1.2 Dead+1.0 Wind 180 deg - No Ice	50.5972	-0.1046	32.8448	3125.1954	13.7908	0.3568
0.9 Dead+1.0 Wind 180 deg - No Ice	37.9479	-0.1046	32.8448	3087.5245	14.1228	0.3300
1.2 Dead+1.0 Wind 210 deg - No Ice	50.5972	-14.6341	25.0193	2451.1754	1441.7228	1.5891
0.9 Dead+1.0 Wind 210 deg	37.9479	-14.6341	25.0193	2420.8714	1424.1434	1.5694

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
- No Ice						
1.2 Dead+1.0 Wind 240 deg	50.5972	-25.5561	14.6864	1430.4373	2494.2241	1.2860
- No Ice						
0.9 Dead+1.0 Wind 240 deg	37.9479	-25.5561	14.6864	1412.9373	2463.5429	1.2783
- No Ice						
1.2 Dead+1.0 Wind 270 deg	50.5972	-29.1616	0.1046	14.4732	2850.3655	0.6424
- No Ice						
0.9 Dead+1.0 Wind 270 deg	37.9479	-29.1616	0.1046	14.6378	2815.2120	0.6487
- No Ice						
1.2 Dead+1.0 Wind 300 deg	50.5972	-26.8440	-15.3092	-1480.6021	2607.6480	0.2526
- No Ice						
0.9 Dead+1.0 Wind 300 deg	37.9479	-26.8440	-15.3092	-1461.9086	2575.8476	0.2707
- No Ice						
1.2 Dead+1.0 Wind 330 deg	50.5972	-16.5666	-28.5757	-2684.0456	1555.6605	0.5416
- No Ice						
0.9 Dead+1.0 Wind 330 deg	37.9479	-16.5666	-28.5757	-2650.9607	1537.2627	0.5653
- No Ice						
1.2 Dead+1.0 Ice+1.0 Temp	87.0931	0.0000	-0.0000	-4.9035	-5.4736	-0.0004
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	87.0931	0.0181	-6.8295	-733.6807	-8.6480	-0.0850
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	87.0931	3.0995	-5.3118	-587.0490	-346.8591	-0.3612
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	87.0931	5.4274	-3.1217	-344.6749	-596.8521	-0.2858
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	87.0931	6.1371	-0.0181	-8.0792	-682.2819	-0.1337
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	87.0931	5.5069	3.1467	338.3637	-609.4681	-0.0135
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	87.0931	3.4891	6.0229	620.6557	-368.5882	-0.0751
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	87.0931	-0.0181	6.8788	725.2980	-2.5850	0.0925
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	87.0931	-3.0799	5.2779	576.2675	335.2269	0.3682
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	87.0931	-5.3701	3.0886	333.5061	583.7567	0.2844
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	87.0931	-6.1588	0.0181	-2.0161	671.3867	0.1244
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	87.0931	-5.5497	-3.1714	-349.3179	599.7223	0.0043
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	87.0931	-3.4783	-6.0041	-630.4648	357.1904	0.0743
Dead+Wind 0 deg - Service	42.1643	0.0227	-7.0669	-673.8542	-5.3941	-0.0525
Dead+Wind 30 deg - Service	42.1643	3.1905	-5.4550	-529.3126	-312.7382	-0.3263
Dead+Wind 60 deg - Service	42.1643	5.6009	-3.2189	-310.4255	-540.6799	-0.2853
Dead+Wind 90 deg - Service	42.1643	6.3255	-0.0227	-4.8493	-619.1483	-0.1677
Dead+Wind 120 deg - Service	42.1643	5.7728	3.2919	316.5961	-563.0852	-0.0824
Dead+Wind 150 deg - Service	42.1643	3.6102	6.2273	577.8420	-338.3421	-0.1191
Dead+Wind 180 deg - Service	42.1643	-0.0227	7.1298	673.2696	1.5457	0.0614
Dead+Wind 210 deg - Service	42.1643	-3.1768	5.4313	527.6953	309.5479	0.3344
Dead+Wind 240 deg - Service	42.1643	-5.5478	3.1882	307.5318	536.5968	0.2849
Dead+Wind 270 deg - Service	42.1643	-6.3305	0.0227	2.0906	613.4023	0.1591
Dead+Wind 300 deg - Service	42.1643	-5.8273	-3.3233	-320.4429	561.1216	0.0739
Dead+Wind 330 deg - Service	42.1643	-3.5962	-6.2031	-580.1184	334.2154	0.1194

**Solution Summary**

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.0000	-42.1643	0.0000	0.0000	42.1643	0.0000	0.000%
2	0.1046	-50.5972	-32.5551	-0.1046	50.5972	32.5551	0.000%
3	0.1046	-37.9479	-32.5551	-0.1046	37.9479	32.5551	0.000%
4	14.6972	-50.5972	-25.1286	-14.6972	50.5972	25.1286	0.000%
5	14.6972	-37.9479	-25.1286	-14.6972	37.9479	25.1286	0.000%
6	25.8008	-50.5972	-14.8278	-25.8008	50.5972	14.8278	0.000%
7	25.8008	-37.9479	-14.8278	-25.8008	37.9479	14.8278	0.000%
8	29.1385	-50.5972	-0.1046	-29.1385	50.5972	0.1046	0.000%
9	29.1385	-37.9479	-0.1046	-29.1385	37.9479	0.1046	0.000%
10	26.5932	-50.5972	15.1644	-26.5932	50.5972	-15.1644	0.000%
11	26.5932	-37.9479	15.1644	-26.5932	37.9479	-15.1644	0.000%
12	16.6311	-50.5972	28.6874	-16.6311	50.5972	-28.6874	0.000%
13	16.6311	-37.9479	28.6874	-16.6311	37.9479	-28.6874	0.000%
14	-0.1046	-50.5972	32.8448	0.1046	50.5972	-32.8448	0.000%
15	-0.1046	-37.9479	32.8448	0.1046	37.9479	-32.8448	0.000%
16	-14.6341	-50.5972	25.0193	14.6341	50.5972	-25.0193	0.000%
17	-14.6341	-37.9479	25.0193	14.6341	37.9479	-25.0193	0.000%
18	-25.5561	-50.5972	14.6864	25.5561	50.5972	-14.6864	0.000%
19	-25.5561	-37.9479	14.6864	25.5561	37.9479	-14.6864	0.000%
20	-29.1616	-50.5972	0.1046	29.1616	50.5972	-0.1046	0.000%
21	-29.1616	-37.9479	0.1046	29.1616	37.9479	-0.1046	0.000%
22	-26.8440	-50.5972	-15.3092	26.8440	50.5972	15.3092	0.000%
23	-26.8440	-37.9479	-15.3092	26.8440	37.9479	15.3092	0.000%
24	-16.5666	-50.5972	-28.5757	16.5666	50.5972	28.5757	0.000%
25	-16.5666	-37.9479	-28.5757	16.5666	37.9479	28.5757	0.000%
26	0.0000	-87.0931	0.0000	-0.0000	87.0931	0.0000	0.000%
27	0.0181	-87.0931	-6.8294	-0.0181	87.0931	6.8295	0.000%
28	3.0995	-87.0931	-5.3118	-3.0995	87.0931	5.3118	0.000%
29	5.4274	-87.0931	-3.1217	-5.4274	87.0931	3.1217	0.000%
30	6.1371	-87.0931	-0.0181	-6.1371	87.0931	0.0181	0.000%
31	5.5069	-87.0931	3.1467	-5.5069	87.0931	-3.1467	0.000%
32	3.4891	-87.0931	6.0228	-3.4891	87.0931	-6.0229	0.000%
33	-0.0181	-87.0931	6.8788	0.0181	87.0931	-6.8788	0.000%
34	-3.0799	-87.0931	5.2779	3.0799	87.0931	-5.2779	0.000%
35	-5.3701	-87.0931	3.0886	5.3701	87.0931	-3.0886	0.000%
36	-6.1588	-87.0931	0.0181	6.1588	87.0931	-0.0181	0.000%
37	-5.5497	-87.0931	-3.1714	5.5497	87.0931	3.1714	0.000%
38	-3.4783	-87.0931	-6.0041	3.4783	87.0931	6.0041	0.000%
39	0.0227	-42.1643	-7.0669	-0.0227	42.1643	7.0669	0.000%
40	3.1905	-42.1643	-5.4550	-3.1905	42.1643	5.4550	0.000%
41	5.6009	-42.1643	-3.2189	-5.6009	42.1643	3.2189	0.000%
42	6.3255	-42.1643	-0.0227	-6.3255	42.1643	0.0227	0.000%
43	5.7728	-42.1643	3.2919	-5.7728	42.1643	-3.2919	0.000%
44	3.6102	-42.1643	6.2273	-3.6102	42.1643	-6.2273	0.000%
45	-0.0227	-42.1643	7.1298	0.0227	42.1643	-7.1298	0.000%
46	-3.1768	-42.1643	5.4313	3.1768	42.1643	-5.4313	0.000%
47	-5.5478	-42.1643	3.1882	5.5478	42.1643	-3.1882	0.000%
48	-6.3305	-42.1643	0.0227	6.3305	42.1643	-0.0227	0.000%
49	-5.8273	-42.1643	-3.3233	5.8273	42.1643	3.3233	0.000%
50	-3.5962	-42.1643	-6.2031	3.5962	42.1643	6.2031	0.000%

### Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00041760
3	Yes	5	0.00000001	0.00015583
4	Yes	7	0.00000001	0.00008728
5	Yes	6	0.00000001	0.00046187
6	Yes	7	0.00000001	0.00009400
7	Yes	6	0.00000001	0.00049774
8	Yes	6	0.00000001	0.00008324
9	Yes	5	0.00000001	0.00061351
10	Yes	7	0.00000001	0.00009416

11	Yes	6	0.00000001	0.00049494
12	Yes	7	0.00000001	0.00009733
13	Yes	6	0.00000001	0.00050926
14	Yes	6	0.00000001	0.00006747
15	Yes	5	0.00000001	0.00048081
16	Yes	7	0.00000001	0.00009433
17	Yes	6	0.00000001	0.00050063
18	Yes	7	0.00000001	0.00008822
19	Yes	6	0.00000001	0.00046622
20	Yes	5	0.00000001	0.00043519
21	Yes	5	0.00000001	0.00017391
22	Yes	7	0.00000001	0.00009597
23	Yes	6	0.00000001	0.00050487
24	Yes	7	0.00000001	0.00009728
25	Yes	6	0.00000001	0.00050841
26	Yes	4	0.00000001	0.00067006
27	Yes	7	0.00000001	0.00039665
28	Yes	7	0.00000001	0.00043425
29	Yes	7	0.00000001	0.00043959
30	Yes	7	0.00000001	0.00037917
31	Yes	7	0.00000001	0.00043934
32	Yes	7	0.00000001	0.00044771
33	Yes	7	0.00000001	0.00039115
34	Yes	7	0.00000001	0.00043109
35	Yes	7	0.00000001	0.00043178
36	Yes	7	0.00000001	0.00037974
37	Yes	7	0.00000001	0.00044576
38	Yes	7	0.00000001	0.00045460
39	Yes	5	0.00000001	0.00007780
40	Yes	5	0.00000001	0.00033744
41	Yes	5	0.00000001	0.00039887
42	Yes	5	0.00000001	0.00008473
43	Yes	5	0.00000001	0.00038290
44	Yes	5	0.00000001	0.00041205
45	Yes	5	0.00000001	0.00008171
46	Yes	5	0.00000001	0.00039699
47	Yes	5	0.00000001	0.00034140
48	Yes	5	0.00000001	0.00007860
49	Yes	5	0.00000001	0.00040243
50	Yes	5	0.00000001	0.00041014

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	140 - 135	24.1150	39	1.8529	0.0093
L2	135 - 130	22.1821	39	1.8363	0.0087
L3	130 - 125	20.2827	39	1.7887	0.0079
L4	125 - 120	18.4463	39	1.7119	0.0062
L5	120 - 115	16.7104	39	1.5991	0.0047
L6	115 - 114.75	15.1075	39	1.4579	0.0034
L7	114.75 - 109.75	15.0312	39	1.4546	0.0033
L8	109.75 - 104.75	13.5450	39	1.3829	0.0029
L9	104.75 - 101.58	12.1394	39	1.3009	0.0025
L10	101.58 - 101.33	11.2939	39	1.2461	0.0022
L11	101.33 - 96.33	11.2288	39	1.2403	0.0022
L12	96.33 - 91.33	9.9910	39	1.1233	0.0018
L13	91.33 - 91	8.8767	39	1.0048	0.0014
L14	91 - 90.75	8.8076	39	0.9970	0.0014
L15	90.75 - 85.75	8.7554	39	0.9938	0.0014
L16	85.75 - 80.75	7.7489	39	0.9286	0.0012
L17	80.75 - 75.75	6.8119	39	0.8613	0.0010
L18	75.75 - 70.75	5.9456	39	0.7935	0.0009
L19	70.75 - 69.98	5.1501	39	0.7260	0.0008
L20	69.98 - 69.73	5.0339	39	0.7155	0.0008
L21	69.73 - 64.73	4.9965	39	0.7121	0.0008
L22	64.73 - 63	4.2870	39	0.6431	0.0006

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L23	63 - 62.75	4.0582	39	0.6197	0.0006
L24	62.75 - 59.08	4.0258	39	0.6171	0.0006
L25	59.08 - 58.82	3.5664	39	0.5785	0.0005
L26	58.82 - 58.67	3.5350	39	0.5755	0.0005
L27	58.67 - 53.67	3.5169	39	0.5738	0.0005
L28	53.67 - 48.58	2.9463	39	0.5162	0.0005
L29	53 - 47.58	2.8744	39	0.5085	0.0005
L30	47.58 - 42.58	2.3151	39	0.4719	0.0004
L31	42.58 - 39.67	1.8510	39	0.4147	0.0003
L32	39.67 - 39.42	1.6084	39	0.3813	0.0003
L33	39.42 - 34.42	1.5885	39	0.3792	0.0003
L34	34.42 - 32.5	1.2148	39	0.3348	0.0003
L35	32.5 - 32.25	1.0834	39	0.3184	0.0002
L36	32.25 - 31.42	1.0668	39	0.3156	0.0002
L37	31.42 - 31.17	1.0128	39	0.3064	0.0002
L38	31.17 - 29	0.9968	39	0.3042	0.0002
L39	29 - 28.65	0.8629	39	0.2850	0.0002
L40	28.65 - 28.42	0.8421	39	0.2816	0.0002
L41	28.42 - 23.5	0.8286	39	0.2793	0.0002
L42	23.5 - 23.25	0.5659	39	0.2307	0.0002
L43	23.25 - 23	0.5539	39	0.2286	0.0002
L44	23 - 22.75	0.5420	39	0.2265	0.0002
L45	22.75 - 17.75	0.5302	39	0.2240	0.0002
L46	17.75 - 12.75	0.3218	39	0.1742	0.0001
L47	12.75 - 7.75	0.1654	39	0.1246	0.0001
L48	7.75 - 2.75	0.0608	39	0.0754	0.0001
L49	2.75 - 0	0.0076	39	0.0264	0.0000

### Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
138.0000	(2) HBXX-6516DS-A2M w/ Mount Pipe	39	23.3399	1.8487	0.0090	7310
129.0000	(2) HPA-65R-BUU-H6 w/ Mount Pipe	39	19.9093	1.7754	0.0076	3897
120.0000	AIR 32 B2A B66AA w/ Mount Pipe	39	16.7104	1.5991	0.0047	2160
73.0000	DT465B-2XR w/ Mount Pipe	39	5.4993	0.7563	0.0008	4235
50.0000	GPS-TMG-HR-26NCM	39	2.5592	0.4867	0.0004	7117

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	140 - 135	111.6323	2	8.5948	0.0421
L2	135 - 130	102.6875	2	8.5222	0.0393
L3	130 - 125	93.9017	2	8.2997	0.0357
L4	125 - 120	85.4092	2	7.9419	0.0282
L5	120 - 115	77.3794	2	7.4177	0.0211
L6	115 - 114.75	69.9625	2	6.7618	0.0153
L7	114.75 - 109.75	69.6096	2	6.7466	0.0152
L8	109.75 - 104.75	62.7309	2	6.4137	0.0131
L9	104.75 - 101.58	56.2245	2	6.0330	0.0112
L10	101.58 - 101.33	52.3114	14	5.7784	0.0102
L11	101.33 - 96.33	52.0104	14	5.7517	0.0101
L12	96.33 - 91.33	46.2847	14	5.2086	0.0082
L13	91.33 - 91	41.1284	14	4.6586	0.0065
L14	91 - 90.75	40.8082	14	4.6224	0.0064



Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L15	90.75 - 85.75	40.5670	14	4.6076	0.0064
L16	85.75 - 80.75	35.9081	14	4.3049	0.0056
L17	80.75 - 75.75	31.5697	14	3.9925	0.0049
L18	75.75 - 70.75	27.5580	14	3.6780	0.0042
L19	70.75 - 69.98	23.8733	14	3.3649	0.0036
L20	69.98 - 69.73	23.3349	14	3.3163	0.0036
L21	69.73 - 64.73	23.1618	14	3.3005	0.0035
L22	64.73 - 63	19.8746	14	2.9813	0.0030
L23	63 - 62.75	18.8144	14	2.8727	0.0028
L24	62.75 - 59.08	18.6644	14	2.8606	0.0028
L25	59.08 - 58.82	16.5351	14	2.6819	0.0026
L26	58.82 - 58.67	16.3895	14	2.6682	0.0026
L27	58.67 - 53.67	16.3058	14	2.6603	0.0025
L28	53.67 - 48.58	13.6610	14	2.3933	0.0022
L29	53 - 47.58	13.3277	14	2.3579	0.0021
L30	47.58 - 42.58	10.7352	14	2.1884	0.0019
L31	42.58 - 39.67	8.5834	14	1.9230	0.0016
L32	39.67 - 39.42	7.4587	14	1.7684	0.0015
L33	39.42 - 34.42	7.3664	14	1.7583	0.0015
L34	34.42 - 32.5	5.6334	14	1.5526	0.0012
L35	32.5 - 32.25	5.0244	14	1.4764	0.0012
L36	32.25 - 31.42	4.9474	14	1.4637	0.0012
L37	31.42 - 31.17	4.6967	14	1.4210	0.0011
L38	31.17 - 29	4.6226	14	1.4108	0.0011
L39	29 - 28.65	4.0017	14	1.3218	0.0010
L40	28.65 - 28.42	3.9054	14	1.3059	0.0010
L41	28.42 - 23.5	3.8428	14	1.2954	0.0010
L42	23.5 - 23.25	2.6247	14	1.0697	0.0008
L43	23.25 - 23	2.5689	14	1.0601	0.0008
L44	23 - 22.75	2.5136	14	1.0505	0.0008
L45	22.75 - 17.75	2.4589	14	1.0391	0.0008
L46	17.75 - 12.75	1.4924	14	0.8078	0.0006
L47	12.75 - 7.75	0.7672	14	0.5780	0.0004
L48	7.75 - 2.75	0.2820	14	0.3496	0.0002
L49	2.75 - 0	0.0353	14	0.1225	0.0001

**Critical Deflections and Radius of Curvature - Design Wind**

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
138.0000	(2) HBXX-6516DS-A2M w/ Mount Pipe	2	108.0450	8.5769	0.0416	1766
129.0000	(2) HPA-65R-BUU-H6 w/ Mount Pipe	2	92.1747	8.2375	0.0351	904
120.0000	AIR 32 B2A B66AA w/ Mount Pipe	2	77.3794	7.4177	0.0213	487
73.0000	DT465B-2XR w/ Mount Pipe	14	25.4910	3.5058	0.0039	920
50.0000	GPS-TMG-HR-26NCM	14	11.8665	2.2570	0.0020	1539

**Compression Checks**

**Pole Design Data**

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	KI/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L1	140 - 135 (1)	TP14.296x13.161x0.1875	5.0000	0.0000	0.0	8.3963	-2.8497	491.1830	0.006

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L2	135 - 130 (2)	TP15.4309x14.296x0.187 5	5.0000	0.0000	0.0	9.0717	-3.0974	530.6970	0.006
L3	130 - 125 (3)	TP16.5659x15.4309x0.18 75	5.0000	0.0000	0.0	9.7472	-6.9664	570.2100	0.012
L4	125 - 120 (4)	TP17.7008x16.5659x0.18 75	5.0000	0.0000	0.0	10.422 6	-7.3811	609.7230	0.012
L5	120 - 115 (5)	TP18.8358x17.7008x0.18 75	5.0000	0.0000	0.0	11.098 1	-10.4379	649.2360	0.016
L6	115 - 114.75 (6)	TP18.8925x18.8358x0.46 25	0.2500	0.0000	0.0	27.054 8	-10.4938	1582.7100	0.007
L7	114.75 - 109.75 (7)	TP20.0275x18.8925x0.45 5	5.0000	0.0000	0.0	27.962 5	-11.2458	1635.8100	0.007
L8	109.75 - 104.75 (8)	TP21.1624x20.0275x0.42 5	5.0000	0.0000	0.0	27.973 8	-12.0359	1636.4700	0.007
L9	104.75 - 101.58 (9)	TP21.882x21.1624x0.418 8	3.1700	0.0000	0.0	28.527 1	-12.5520	1668.8300	0.008
L10	101.58 - 101.33 (10)	TP21.9388x21.882x0.312 5	0.2500	0.0000	0.0	21.450 5	-12.6001	1254.8600	0.010
L11	101.33 - 96.33 (11)	TP23.0738x21.9388x0.31 25	5.0000	0.0000	0.0	22.576 3	-13.2285	1320.7100	0.010
L12	96.33 - 91.33 (12)	TP24.2088x23.0738x0.31 25	5.0000	0.0000	0.0	23.702 1	-14.0375	1386.5700	0.010
L13	91.33 - 91 (13)	TP24.2837x24.2088x0.31 25	0.3300	0.0000	0.0	23.776 4	-14.1043	1390.9200	0.010
L14	91 - 90.75 (14)	TP24.3404x24.2837x0.6 2	0.2500	0.0000	0.0	45.211 2	-14.1634	2644.8600	0.005
L15	90.75 - 85.75 (15)	TP25.4754x24.3404x0.58 75	5.0000	0.0000	0.0	46.409 1	-15.2756	2714.9300	0.006
L16	85.75 - 80.75 (16)	TP26.6104x25.4754x0.56 25	5.0000	0.0000	0.0	46.505 3	-16.4283	2720.5600	0.006
L17	80.75 - 75.75 (17)	TP27.7454x26.6104x0.55 0	5.0000	0.0000	0.0	47.475 0	-17.6121	2777.2900	0.006
L18	75.75 - 70.75 (18)	TP28.8804x27.7454x0.54 38	5.0000	0.0000	0.0	48.905 2	-22.9221	2860.9500	0.008
L19	70.75 - 69.98 (19)	TP29.0552x28.8804x0.53 13	0.7700	0.0000	0.0	48.096 7	-23.1237	2813.6600	0.008
L20	69.98 - 69.73 (20)	TP29.112x29.0552x0.531 3	0.2500	0.0000	0.0	48.192 4	-23.1953	2819.2600	0.008
L21	69.73 - 64.73 (21)	TP30.247x29.112x0.525 2	5.0000	0.0000	0.0	49.527 2	-24.4912	2897.3400	0.008
L22	64.73 - 63 (22)	TP30.6397x30.247x0.518 8	1.7300	0.0000	0.0	49.594 5	-24.9407	2901.2800	0.009
L23	63 - 62.75 (23)	TP30.6964x30.6397x0.7 0	0.2500	0.0000	0.0	66.646 0	-25.0456	3898.7900	0.006
L24	62.75 - 59.08 (24)	TP31.5295x30.6964x0.68 75	3.6700	0.0000	0.0	67.301 1	-26.2637	3937.1100	0.007
L25	59.08 - 58.82 (25)	TP31.5885x31.5295x0.62 5	0.2600	0.0000	0.0	61.423 9	-26.3575	3593.3000	0.007
L26	58.82 - 58.67 (26)	TP31.6226x31.5885x0.62 5	0.1500	0.0000	0.0	61.491 4	-26.4069	3597.2500	0.007
L27	58.67 - 53.67 (27)	TP32.7576x31.6226x0.61 25	5.0000	0.0000	0.0	62.492 4	-28.0107	3655.8100	0.008
L28	53.67 - 48.58 (28)	TP33.913x32.7576x0.612 5	5.0900	0.0000	0.0	62.788 1	-28.2346	3673.1000	0.008
L29	48.58 - 47.58 (29)	TP33.5151x32.2847x0.63 75	5.4200	0.0000	0.0	66.525 4	-31.1561	3891.7400	0.008
L30	47.58 - 42.58 (30)	TP34.6503x33.5151x0.62 5	5.0000	0.0000	0.0	67.497 6	-32.8077	3948.6100	0.008
L31	42.58 - 39.67 (31)	TP35.3109x34.6503x0.61 25	2.9100	0.0000	0.0	67.456 3	-33.7787	3946.1900	0.009
L32	39.67 - 39.42 (32)	TP35.3677x35.3109x0.81 25	0.2500	0.0000	0.0	89.113 4	-33.8968	5213.1400	0.007
L33	39.42 - 34.42 (33)	TP36.5028x35.3677x0.78 75	5.0000	0.0000	0.0	89.271 3	-35.9146	5222.3700	0.007
L34	34.42 - 32.5 (34)	TP36.9387x36.5028x0.78 75	1.9200	0.0000	0.0	90.360 8	-36.6951	5286.1100	0.007
L35	32.5 - 32.25 (35)	TP36.9954x36.9387x0.61 25	0.2500	0.0000	0.0	70.731 2	-36.7989	4137.7700	0.009
L36	32.25 - 31.42	TP37.1839x36.9954x0.6	0.8300	0.0000	0.0	69.670	-37.0819	4075.7100	0.009

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L37	31.42 - 31.17 (36)	TP37.2406x37.1839x0.77 5	0.2500	0.0000	0.0	89.700	-37.1943	5247.4500	0.007
L38	31.17 - 29 (37)	TP37.7333x37.2406x0.76 25	2.1700	0.0000	0.0	89.475	-38.0872	5234.3300	0.007
L39	29 - 28.65 (38)	TP37.8127x37.7333x0.67 5	0.3500	0.0000	0.0	79.565	-38.2335	4654.5900	0.008
L40	28.65 - 28.42 (39)	TP37.8649x37.8127x0.67 5	0.2300	0.0000	0.0	79.677	-38.3262	4661.1400	0.008
L41	28.42 - 23.5 (40)	TP38.9819x37.8649x0.66 25	4.9200	0.0000	0.0	80.577	-40.2709	4713.7600	0.009
L42	23.5 - 23.25 (41)	TP39.0387x38.9819x0.78 75	0.2500	0.0000	0.0	95.609	-40.4013	5593.1700	0.007
L43	23.25 - 23 (42)	TP39.0954x39.0387x0.78 75	0.2500	0.0000	0.0	95.751	-40.5195	5601.4700	0.007
L44	23 - 22.75 (43)	TP39.1522x39.0954x0.65 75	0.2500	0.0000	0.0	79.433	-40.6259	4646.8800	0.009
L45	22.75 - 17.75 (44)	TP40.2873x39.1522x0.63 75	5.0000	0.0000	0.0	80.228	-42.7586	4693.3600	0.009
L46	17.75 - 12.75 (45)	TP41.4224x40.2873x0.62 5	5.0000	0.0000	0.0	80.931	-44.9278	4734.5200	0.009
L47	12.75 - 7.75 (46)	TP42.5576x41.4224x0.61 25	5.0000	0.0000	0.0	81.544	-47.1241	4770.3400	0.010
L48	7.75 - 2.75 (47)	TP43.6927x42.5576x0.6 25	5.0000	0.0000	0.0	82.065	-49.3477	4800.8400	0.010
L49	2.75 - 0 (49)	TP44.317x43.6927x0.6 7	2.7500	0.0000	0.0	83.254	-50.5796	4870.4000	0.010

**Pole Bending Design Data**

Section No.	Elevation ft	Size	M <sub>ux</sub> kip-ft	φM <sub>nx</sub> kip-ft	Ratio M <sub>ux</sub> / φM <sub>nx</sub>	M <sub>uy</sub> kip-ft	φM <sub>ny</sub> kip-ft	Ratio M <sub>uy</sub> / φM <sub>ny</sub>
L1	140 - 135 (1)	TP14.296x13.161x0.1875	26.8131	180.0050	0.149	0.0000	180.0050	0.000
L2	135 - 130 (2)	TP15.4309x14.296x0.187 5	54.7282	210.3367	0.260	0.0000	210.3367	0.000
L3	130 - 125 (3)	TP16.5659x15.4309x0.18 75	109.5808	243.0292	0.451	0.0000	243.0292	0.000
L4	125 - 120 (4)	TP17.7008x16.5659x0.18 75	171.8792	278.0817	0.618	0.0000	278.0817	0.000
L5	120 - 115 (5)	TP18.8358x17.7008x0.18 75	251.6800	312.0175	0.807	0.0000	312.0175	0.000
L6	115 - 114.75 (6)	TP18.8925x18.8358x0.46 25	255.6917	748.9600	0.341	0.0000	748.9600	0.000
L7	114.75 - 109.75 (7)	TP20.0275x18.8925x0.45	337.0783	823.9783	0.409	0.0000	823.9783	0.000
L8	109.75 - 104.75 (8)	TP21.1624x20.0275x0.42 5	420.6508	875.2833	0.481	0.0000	875.2833	0.000
L9	104.75 - 101.58 (9)	TP21.882x21.1624x0.418 8	474.7642	924.7250	0.513	0.0000	924.7250	0.000
L10	101.58 - 101.33 (10)	TP21.9388x21.882x0.312 5	479.0675	704.1108	0.680	0.0000	704.1108	0.000
L11	101.33 - 96.33 (11)	TP23.0738x21.9388x0.31 25	569.0567	780.5117	0.729	0.0000	780.5117	0.000
L12	96.33 - 91.33 (12)	TP24.2088x23.0738x0.31 25	662.4267	860.8500	0.770	0.0000	860.8500	0.000
L13	91.33 - 91 (13)	TP24.2837x24.2088x0.31 25	668.6842	866.2917	0.772	0.0000	866.2917	0.000
L14	91 - 90.75 (14)	TP24.3404x24.2837x0.6	673.4333	1611.9333	0.418	0.0000	1611.9333	0.000
L15	90.75 - 85.75 (15)	TP25.4754x24.3404x0.58 75	770.0758	1737.4417	0.443	0.0000	1737.4417	0.000
L16	85.75 - 80.75 (16)	TP26.6104x25.4754x0.56 25	869.8833	1825.7833	0.476	0.0000	1825.7833	0.000
L17	80.75 - 75.75	TP27.7454x26.6104x0.55	972.8500	1948.5750	0.499	0.0000	1948.5750	0.000

Section No.	Elevation ft	Size	$M_{ux}$ kip-ft	$\phi M_{nx}$ kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	$M_{uy}$ kip-ft	$\phi M_{ny}$ kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L18	75.75 - 70.75 (17)	TP28.8804x27.7454x0.54 38	1087.2750	2093.6333	0.519	0.0000	2093.6333	0.000
L19	70.75 - 69.98 (18)	TP29.0552x28.8804x0.53 13	1105.8917	2073.7833	0.533	0.0000	2073.7833	0.000
L20	69.98 - 69.73 (19)	TP29.112x29.0552x0.531 3	1111.9583	2082.1167	0.534	0.0000	2082.1167	0.000
L21	69.73 - 64.73 (20)	TP30.247x29.112x0.525 21	1234.9667	2227.2500	0.554	0.0000	2227.2500	0.000
L22	64.73 - 63 (21)	TP30.6397x30.247x0.518 8	1278.3000	2261.1917	0.565	0.0000	2261.1917	0.000
L23	63 - 62.75 (22)	TP30.6964x30.6397x0.7 23	1284.6000	3008.0000	0.427	0.0000	3008.0000	0.000
L24	62.75 - 59.08 (23)	TP31.5295x30.6964x0.68 75	1378.0583	3126.3833	0.441	0.0000	3126.3833	0.000
L25	59.08 - 58.82 (24)	TP31.5885x31.5295x0.62 5	1384.7500	2870.5250	0.482	0.0000	2870.5250	0.000
L26	58.82 - 58.67 (25)	TP31.6226x31.5885x0.62 5	1388.6167	2876.9000	0.483	0.0000	2876.9000	0.000
L27	58.67 - 53.67 (26)	TP32.7576x31.6226x0.61 25	1519.2167	3035.2667	0.501	0.0000	3035.2667	0.000
L28	53.67 - 48.58 (27)	TP33.913x32.7576x0.612 5	1536.9667	3064.3250	0.502	0.0000	3064.3250	0.000
L29	48.58 - 47.58 (28)	TP33.5151x32.2847x0.63 75	1683.0583	3303.6917	0.509	0.0000	3303.6917	0.000
L30	47.58 - 42.58 (29)	TP34.6503x33.5151x0.62 5	1821.5500	3472.4583	0.525	0.0000	3472.4583	0.000
L31	42.58 - 39.67 (30)	TP35.3109x34.6503x0.61 25	1903.6167	3541.4833	0.538	0.0000	3541.4833	0.000
L32	39.67 - 39.42 (31)	TP35.3677x35.3109x0.81 25	1910.7167	4632.4917	0.412	0.0000	4632.4917	0.000
L33	39.42 - 34.42 (32)	TP36.5028x35.3677x0.78 75	2054.8583	4803.3667	0.428	0.0000	4803.3667	0.000
L34	34.42 - 32.5 (33)	TP36.9387x36.5028x0.78 75	2111.2000	4922.6083	0.429	0.0000	4922.6083	0.000
L35	32.5 - 32.25 (34)	TP36.9954x36.9387x0.61 25	2118.5750	3896.8167	0.544	0.0000	3896.8167	0.000
L36	32.25 - 31.42 (35)	TP37.1839x36.9954x0.6 25	2143.0917	3861.2167	0.555	0.0000	3861.2167	0.000
L37	31.42 - 31.17 (36)	TP37.2406x37.1839x0.77 5	2150.4917	4931.6750	0.436	0.0000	4931.6750	0.000
L38	31.17 - 29 (37)	TP37.7333x37.2406x0.76 25	2215.0750	4990.5667	0.444	0.0000	4990.5667	0.000
L39	29 - 28.65 (38)	TP37.8127x37.7333x0.67 5	2225.5500	4468.5917	0.498	0.0000	4468.5917	0.000
L40	28.65 - 28.42 (39)	TP37.8649x37.8127x0.67 5	2232.4417	4481.2750	0.498	0.0000	4481.2750	0.000
L41	28.42 - 23.5 (40)	TP38.9819x37.8649x0.66 25	2381.1417	4673.4583	0.510	0.0000	4673.4583	0.000
L42	23.5 - 23.25 (41)	TP39.0387x38.9819x0.78 75	2388.7667	5517.5750	0.433	0.0000	5517.5750	0.000
L43	23.25 - 23 (42)	TP39.0954x39.0387x0.78 75	2396.4000	5534.1333	0.433	0.0000	5534.1333	0.000
L44	23 - 22.75 (43)	TP39.1522x39.0954x0.65 75	2404.0333	4630.9750	0.519	0.0000	4630.9750	0.000
L45	22.75 - 17.75 (44)	TP40.2873x39.1522x0.63 75	2558.1000	4820.5250	0.531	0.0000	4820.5250	0.000
L46	17.75 - 12.75 (45)	TP41.4224x40.2873x0.62 5	2714.6833	5007.2833	0.542	0.0000	5007.2833	0.000
L47	12.75 - 7.75 (46)	TP42.5576x41.4224x0.61 25	2873.7583	5190.7583	0.554	0.0000	5190.7583	0.000
L48	7.75 - 2.75 (47)	TP43.6927x42.5576x0.6 25	3035.3167	5370.4667	0.565	0.0000	5370.4667	0.000
L49	2.75 - 0 (49)	TP44.317x43.6927x0.6	3125.2250	5528.2917	0.565	0.0000	5528.2917	0.000

### Pole Shear Design Data

Section No.	Elevation ft	Size	Actual	$\phi V_n$	Ratio	Actual	$\phi T_n$	Ratio
			$V_u$ K	K	$\frac{V_u}{\phi V_n}$	$T_u$ kip-ft	kip-ft	$\frac{T_u}{\phi T_n}$
L1	140 - 135 (1)	TP14.296x13.161x0.1875	5.4783	147.3550	0.037	0.0046	182.0642	0.000
L2	135 - 130 (2)	TP15.4309x14.296x0.1875	5.6938	159.2090	0.036	0.0048	212.5350	0.000
L3	130 - 125 (3)	TP16.5659x15.4309x0.1875	12.3708	171.0630	0.072	1.3039	245.3617	0.005
L4	125 - 120 (4)	TP17.7008x16.5659x0.1875	12.5630	182.9170	0.069	1.3022	280.5450	0.005
L5	120 - 115 (5)	TP18.8358x17.7008x0.1875	16.0705	194.7710	0.083	1.3000	318.0850	0.004
L6	115 - 114.75 (6)	TP18.8925x18.8358x0.4625	16.0815	474.8120	0.034	1.2998	766.3508	0.002
L7	114.75 - 109.75 (7)	TP20.0275x18.8925x0.45	16.5247	490.7420	0.034	1.2988	841.3750	0.002
L8	109.75 - 104.75 (8)	TP21.1624x20.0275x0.425	16.9638	490.9400	0.035	1.2975	891.5833	0.001
L9	104.75 - 101.58 (9)	TP21.882x21.1624x0.4188	17.2389	500.6500	0.034	1.2966	941.0417	0.001
L10	101.58 - 101.33 (10)	TP21.9388x21.882x0.3125	17.2433	376.4570	0.046	1.2965	712.9783	0.002
L11	101.33 - 96.33 (11)	TP23.0738x21.9388x0.3125	18.4070	396.2140	0.046	0.7433	789.7800	0.001
L12	96.33 - 91.33 (12)	TP24.2088x23.0738x0.3125	18.9464	415.9720	0.046	0.6329	870.5083	0.001
L13	91.33 - 91 (13)	TP24.2837x24.2088x0.3125	18.9741	417.2760	0.045	0.6132	875.9750	0.001
L14	91 - 90.75 (14)	TP24.3404x24.2837x0.6	19.0040	793.4570	0.024	0.6097	1649.6500	0.000
L15	90.75 - 85.75 (15)	TP25.4754x24.3404x0.5875	19.6433	814.4800	0.024	0.5639	1775.2083	0.000
L16	85.75 - 80.75 (16)	TP26.6104x25.4754x0.5625	20.2757	816.1680	0.025	0.5089	1861.8000	0.000
L17	80.75 - 75.75 (17)	TP27.7454x26.6104x0.55	20.9051	833.1870	0.025	0.4529	1984.3500	0.000
L18	75.75 - 70.75 (18)	TP28.8804x27.7454x0.5438	24.1332	858.2860	0.028	0.4010	2129.9083	0.000
L19	70.75 - 69.98 (19)	TP29.0552x28.8804x0.5313	24.2360	844.0980	0.029	0.3907	2108.5417	0.000
L20	69.98 - 69.73 (20)	TP29.112x29.0552x0.5313	24.2657	845.7770	0.029	0.3846	2116.9417	0.000
L21	69.73 - 64.73 (21)	TP30.247x29.112x0.525	24.9312	869.2020	0.029	0.3404	2262.4417	0.000
L22	64.73 - 63 (22)	TP30.6397x30.247x0.5188	25.1739	870.3830	0.029	0.3297	2295.9250	0.000
L23	63 - 62.75 (23)	TP30.6964x30.6397x0.7	25.1911	1169.6400	0.022	0.3158	3072.5583	0.000
L24	62.75 - 59.08 (24)	TP31.5295x30.6964x0.6875	25.7311	1181.1300	0.022	0.2964	3190.2250	0.000
L25	59.08 - 58.82 (25)	TP31.5885x31.5295x0.625	25.7602	1077.9900	0.024	0.2876	2923.1083	0.000
L26	58.82 - 58.67 (26)	TP31.6226x31.5885x0.625	25.7850	1079.1700	0.024	0.2860	2929.5417	0.000
L27	58.67 - 53.67 (27)	TP32.7576x31.6226x0.6125	26.4483	1096.7400	0.024	0.2572	3087.4417	0.000
L28	53.67 - 48.58 (28)	TP33.913x32.7576x0.6125	26.5295	1101.9300	0.024	0.2501	3116.7250	0.000
L29	48.58 - 47.58 (29)	TP33.5151x32.2847x0.6375	27.3843	1167.5200	0.023	0.2870	3361.5917	0.000
L30	47.58 - 42.58 (30)	TP34.6503x33.5151x0.625	28.0145	1184.5800	0.024	0.2436	3529.7750	0.000
L31	42.58 - 39.67 (31)	TP35.3109x34.6503x0.6125	28.3900	1183.8600	0.024	0.2251	3597.4000	0.000
L32	39.67 - 39.42 (32)	TP35.3677x35.3109x0.8125	28.4066	1563.9400	0.018	0.2154	4732.7500	0.000
L33	39.42 - 34.42 (33)	TP36.5028x35.3677x0.7875	29.2438	1566.7100	0.019	0.3816	4900.3000	0.000
L34	34.42 - 32.5	TP36.9387x36.5028x0.7875	29.5186	1585.8300	0.019	0.3756	5020.6417	0.000

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $\frac{V_u}{\phi V_n}$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L35	(34) 32.5 - 32.25	75 TP36.9954x36.9387x0.61	29.5241	1241.3300	0.024	0.3656	3955.1750	0.000
L36	(35) 32.25 - 31.42	25 TP37.1839x36.9954x0.6	29.6188	1222.7100	0.024	0.3656	3917.3667	0.000
L37	(36) 31.42 - 31.17	5 TP37.2406x37.1839x0.77	29.6360	1574.2300	0.019	0.3656	5027.2833	0.000
L38	(37) 31.17 - 29	25 TP37.7333x37.2406x0.76	29.9432	1570.3000	0.019	0.3613	5084.1750	0.000
L39	(38) 29 - 28.65	5 TP37.8127x37.7333x0.67	29.9707	1396.3800	0.021	0.3570	4541.4917	0.000
L40	(39) 28.65 - 28.42	5 TP37.8649x37.8127x0.67	29.9932	1398.3400	0.021	0.3570	4554.2667	0.000
L41	(40) 28.42 - 23.5	25 TP38.9819x37.8649x0.66	30.5145	1414.1300	0.022	0.3569	4745.5583	0.000
L42	(41) 23.5 - 23.25	75 TP39.0387x38.9819x0.78	30.5262	1677.9500	0.018	0.3569	5620.8747	0.000
L43	(42) 23.25 - 23	75 TP39.0954x39.0387x0.78	30.5542	1680.4400	0.018	0.3569	5637.5667	0.000
L44	(43) 23 - 22.75	75 TP39.1522x39.0954x0.65	30.5813	1394.0600	0.022	0.3569	4700.5417	0.000
L45	(44) 22.75 - 17.75	75 TP40.2873x39.1522x0.63	31.1032	1408.0100	0.022	0.3569	4889.0667	0.000
L46	(45) 17.75 - 12.75	5 TP41.4224x40.2873x0.62	31.6033	1420.3500	0.022	0.3568	5074.6917	0.000
L47	(46) 12.75 - 7.75	25 TP42.5576x41.4224x0.61	32.1027	1431.1000	0.022	0.3568	5256.9250	0.000
L48	(47) 7.75 - 2.75	25 TP43.6927x42.5576x0.6	32.6012	1440.2500	0.023	0.3568	5435.2833	0.000
L49	(48) 2.75 - 0 (49)	TP44.317x43.6927x0.6	32.8719	1461.1200	0.022	0.3568	5593.9167	0.000

### Pole Interaction Design Data

Section No.	Elevation ft	Ratio $P_u$	Ratio $M_{ux}$	Ratio $M_{uy}$	Ratio $V_u$	Ratio $T_u$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$\phi P_n$	$\phi M_{nx}$	$\phi M_{ny}$	$\phi V_n$	$\phi T_n$			
L1	140 - 135 (1)	0.006	0.149	0.000	0.037	0.000	0.156	1.050	4.8.2
L2	135 - 130 (2)	0.006	0.260	0.000	0.036	0.000	0.267	1.050	4.8.2
L3	130 - 125 (3)	0.012	0.451	0.000	0.072	0.005	0.469	1.050	4.8.2
L4	125 - 120 (4)	0.012	0.618	0.000	0.069	0.005	0.636	1.050	4.8.2
L5	120 - 115 (5)	0.016	0.807	0.000	0.083	0.004	0.830	1.050	4.8.2
L6	115 - 114.75 (6)	0.007	0.341	0.000	0.034	0.002	0.349	1.050	4.8.2
L7	114.75 - 109.75 (7)	0.007	0.409	0.000	0.034	0.002	0.417	1.050	4.8.2
L8	109.75 - 104.75 (8)	0.007	0.481	0.000	0.035	0.001	0.489	1.050	4.8.2
L9	104.75 - 101.58 (9)	0.008	0.513	0.000	0.034	0.001	0.522	1.050	4.8.2
L10	101.58 - 101.33 (10)	0.010	0.680	0.000	0.046	0.002	0.693	1.050	4.8.2
L11	101.33 - 96.33 (11)	0.010	0.729	0.000	0.046	0.001	0.741	1.050	4.8.2
L12	96.33 - 91.33 (12)	0.010	0.770	0.000	0.046	0.001	0.782	1.050	4.8.2
L13	91.33 - 91 (13)	0.010	0.772	0.000	0.045	0.001	0.784	1.050	4.8.2
L14	91 - 90.75 (14)	0.005	0.418	0.000	0.024	0.000	0.424	1.050	4.8.2
L15	90.75 - 85.75 (15)	0.006	0.443	0.000	0.024	0.000	0.449	1.050	4.8.2
L16	85.75 - 80.75 (16)	0.006	0.476	0.000	0.025	0.000	0.483	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$P_u$	$M_{ux}$	$M_{uy}$	$V_u$	$T_u$			
		$\phi P_n$	$\phi M_{nx}$	$\phi M_{ny}$	$\phi V_n$	$\phi T_n$			
L17	80.75 - 75.75 (17)	0.006	0.499	0.000	0.025	0.000	0.506	1.050	4.8.2
L18	75.75 - 70.75 (18)	0.008	0.519	0.000	0.028	0.000	0.528	1.050	4.8.2
L19	70.75 - 69.98 (19)	0.008	0.533	0.000	0.029	0.000	0.542	1.050	4.8.2
L20	69.98 - 69.73 (20)	0.008	0.534	0.000	0.029	0.000	0.543	1.050	4.8.2
L21	69.73 - 64.73 (21)	0.008	0.554	0.000	0.029	0.000	0.564	1.050	4.8.2
L22	64.73 - 63 (22)	0.009	0.565	0.000	0.029	0.000	0.575	1.050	4.8.2
L23	63 - 62.75 (23)	0.006	0.427	0.000	0.022	0.000	0.434	1.050	4.8.2
L24	62.75 - 59.08 (24)	0.007	0.441	0.000	0.022	0.000	0.448	1.050	4.8.2
L25	59.08 - 58.82 (25)	0.007	0.482	0.000	0.024	0.000	0.490	1.050	4.8.2
L26	58.82 - 58.67 (26)	0.007	0.483	0.000	0.024	0.000	0.491	1.050	4.8.2
L27	58.67 - 53.67 (27)	0.008	0.501	0.000	0.024	0.000	0.509	1.050	4.8.2
L28	53.67 - 48.58 (28)	0.008	0.502	0.000	0.024	0.000	0.510	1.050	4.8.2
L29	48.58 - 47.58 (29)	0.008	0.509	0.000	0.023	0.000	0.518	1.050	4.8.2
L30	47.58 - 42.58 (30)	0.008	0.525	0.000	0.024	0.000	0.533	1.050	4.8.2
L31	42.58 - 39.67 (31)	0.009	0.538	0.000	0.024	0.000	0.547	1.050	4.8.2
L32	39.67 - 39.42 (32)	0.007	0.412	0.000	0.018	0.000	0.419	1.050	4.8.2
L33	39.42 - 34.42 (33)	0.007	0.428	0.000	0.019	0.000	0.435	1.050	4.8.2
L34	34.42 - 32.5 (34)	0.007	0.429	0.000	0.019	0.000	0.436	1.050	4.8.2
L35	32.5 - 32.25 (35)	0.009	0.544	0.000	0.024	0.000	0.553	1.050	4.8.2
L36	32.25 - 31.42 (36)	0.009	0.555	0.000	0.024	0.000	0.565	1.050	4.8.2
L37	31.42 - 31.17 (37)	0.007	0.436	0.000	0.019	0.000	0.444	1.050	4.8.2
L38	31.17 - 29 (38)	0.007	0.444	0.000	0.019	0.000	0.451	1.050	4.8.2
L39	29 - 28.65 (39)	0.008	0.498	0.000	0.021	0.000	0.507	1.050	4.8.2
L40	28.65 - 28.42 (40)	0.008	0.498	0.000	0.021	0.000	0.507	1.050	4.8.2
L41	28.42 - 23.5 (41)	0.009	0.510	0.000	0.022	0.000	0.519	1.050	4.8.2
L42	23.5 - 23.25 (42)	0.007	0.433	0.000	0.018	0.000	0.440	1.050	4.8.2
L43	23.25 - 23 (43)	0.007	0.433	0.000	0.018	0.000	0.441	1.050	4.8.2
L44	23 - 22.75 (44)	0.009	0.519	0.000	0.022	0.000	0.528	1.050	4.8.2
L45	22.75 - 17.75 (45)	0.009	0.531	0.000	0.022	0.000	0.540	1.050	4.8.2
L46	17.75 - 12.75 (46)	0.009	0.542	0.000	0.022	0.000	0.552	1.050	4.8.2
L47	12.75 - 7.75 (47)	0.010	0.554	0.000	0.022	0.000	0.564	1.050	4.8.2
L48	7.75 - 2.75 (48)	0.010	0.565	0.000	0.023	0.000	0.576	1.050	4.8.2
L49	2.75 - 0 (49)	0.010	0.565	0.000	0.022	0.000	0.576	1.050	4.8.2

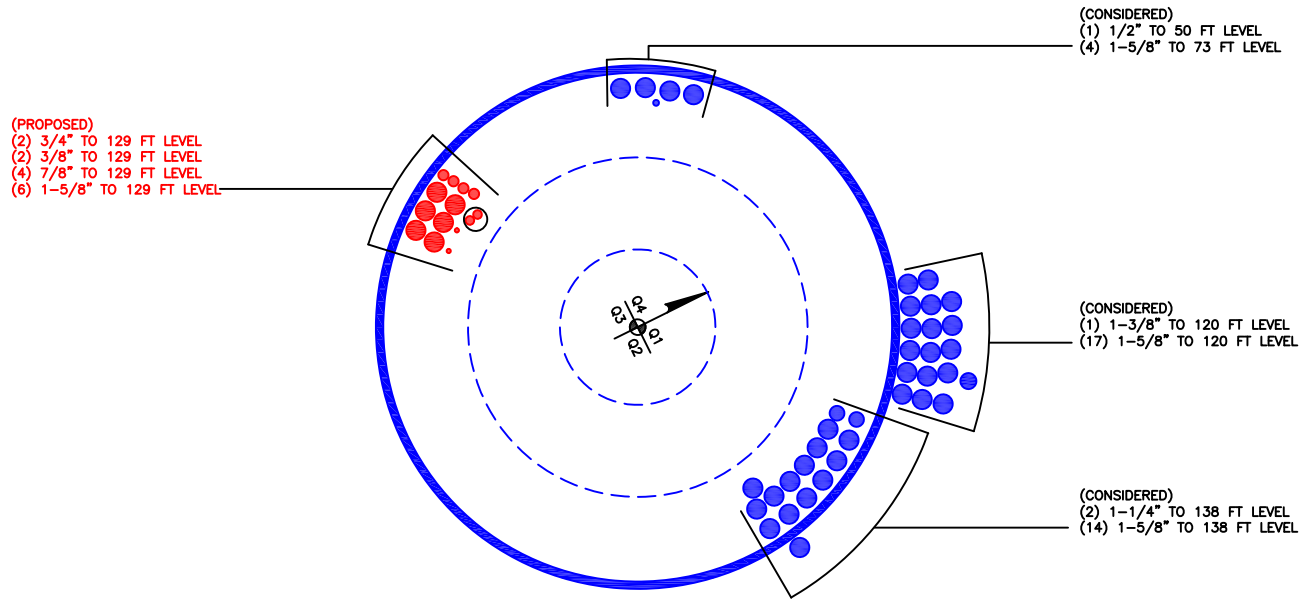
### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail	
L1	140 - 135	Pole	TP14.296x13.161x0.1875	1	-2.8497	515.7421	14.9	Pass	
L2	135 - 130	Pole	TP15.4309x14.296x0.1875	2	-3.0974	557.2318	25.5	Pass	
L3	130 - 125	Pole	TP16.5659x15.4309x0.1875	3	-6.9664	598.7205	44.7	Pass	
L4	125 - 120	Pole	TP17.7008x16.5659x0.1875	4	-7.3811	640.2091	60.5	Pass	
L5	120 - 115	Pole	TP18.8358x17.7008x0.1875	5	-10.4379	681.6978	79.1	Pass	
L6	115 - 114.75	Pole	TP18.8925x18.8358x0.4625	6	-10.4938	1661.8454	33.3	Pass	
L7	114.75 - 109.75	Pole	TP20.0275x18.8925x0.45	7	-11.2458	1717.6004	39.7	Pass	
L8	109.75 - 104.75	Pole	TP21.1624x20.0275x0.425	8	-12.0359	1718.2934	46.6	Pass	
L9	104.75 - 101.58	Pole	TP21.882x21.1624x0.4188	9	-12.5520	1752.2714	49.7	Pass	
L10	101.58 - 101.33	Pole	TP21.9388x21.882x0.3125	10	-12.6001	1317.6029	66.0	Pass	
L11	101.33 - 96.33	Pole	TP23.0738x21.9388x0.3125	11	-13.2285	1386.7454	70.6	Pass	
L12	96.33 - 91.33	Pole	TP24.2088x23.0738x0.3125	12	-14.0375	1455.8984	74.5	Pass	
L13	91.33 - 91	Pole	TP24.2837x24.2088x0.3125	13	-14.1043	1460.4659	74.7	Pass	
L14	91 - 90.75	Pole	TP24.3404x24.2837x0.6	14	-14.1634	2777.1029	40.4	Pass	
L15	90.75 - 85.75	Pole	TP25.4754x24.3404x0.5875	15	-15.2756	2850.6764	42.8	Pass	
L16	85.75 - 80.75	Pole	TP26.6104x25.4754x0.5625	16	-16.4283	2856.5879	46.0	Pass	
L17	80.75 - 75.75	Pole	TP27.7454x26.6104x0.55	17	-17.6121	2916.1544	48.2	Pass	
L18	75.75 - 70.75	Pole	TP28.8804x27.7454x0.5438	18	-22.9221	3003.9974	50.3	Pass	
L19	70.75 - 69.98	Pole	TP29.0552x28.8804x0.5313	19	-23.1237	2954.3429	51.7	Pass	
L20	69.98 - 69.73	Pole	TP29.112x29.0552x0.5313	20	-23.1953	2960.2229	51.7	Pass	
L21	69.73 - 64.73	Pole	TP30.247x29.112x0.525	21	-24.4912	3042.2069	53.7	Pass	
L22	64.73 - 63	Pole	TP30.6397x30.247x0.5188	22	-24.9407	3046.3439	54.7	Pass	
L23	63 - 62.75	Pole	TP30.6964x30.6397x0.7	23	-25.0456	4093.7293	41.3	Pass	
L24	62.75 - 59.08	Pole	TP31.5295x30.6964x0.6875	24	-26.2637	4133.9653	42.7	Pass	
L25	59.08 - 58.82	Pole	TP31.5885x31.5295x0.625	25	-26.3575	3772.9648	46.7	Pass	
L26	58.82 - 58.67	Pole	TP31.6226x31.5885x0.625	26	-26.4069	3777.1123	46.7	Pass	
L27	58.67 - 53.67	Pole	TP32.7576x31.6226x0.6125	27	-28.0107	3838.6003	48.5	Pass	
L28	53.67 - 48.58	Pole	TP33.913x32.7576x0.6125	28	-28.2346	3856.7548	48.6	Pass	
L29	48.58 - 47.58	Pole	TP33.5151x32.2847x0.6375	29	-31.1561	4086.3268	49.3	Pass	
L30	47.58 - 42.58	Pole	TP34.6503x33.5151x0.625	30	-32.8077	4146.0403	50.8	Pass	
L31	42.58 - 39.67	Pole	TP35.3109x34.6503x0.6125	31	-33.7787	4143.4993	52.1	Pass	
L32	39.67 - 39.42	Pole	TP35.3677x35.3109x0.8125	32	-33.8968	5473.7968	39.9	Pass	
L33	39.42 - 34.42	Pole	TP36.5028x35.3677x0.7875	33	-35.9146	5483.4883	41.4	Pass	
L34	34.42 - 32.5	Pole	TP36.9387x36.5028x0.7875	34	-36.6951	5550.4152	41.5	Pass	
L35	32.5 - 32.25	Pole	TP36.9954x36.9387x0.6125	35	-36.7989	4344.6583	52.7	Pass	
L36	32.25 - 31.42	Pole	TP37.1839x36.9954x0.6	36	-37.0819	4279.4953	53.8	Pass	
L37	31.42 - 31.17	Pole	TP37.2406x37.1839x0.775	37	-37.1943	5509.8222	42.2	Pass	
L38	31.17 - 29	Pole	TP37.7333x37.2406x0.7625	38	-38.0872	5496.0463	43.0	Pass	
L39	29 - 28.65	Pole	TP37.8127x37.7333x0.675	39	-38.2335	4887.3193	48.3	Pass	
L40	28.65 - 28.42	Pole	TP37.8649x37.8127x0.675	40	-38.3262	4894.1968	48.3	Pass	
L41	28.42 - 23.5	Pole	TP38.9819x37.8649x0.6625	41	-40.2709	4949.4478	49.4	Pass	
L42	23.5 - 23.25	Pole	TP39.0387x38.9819x0.7875	42	-40.4013	5872.8282	42.0	Pass	
L43	23.25 - 23	Pole	TP39.0954x39.0387x0.7875	43	-40.5195	5881.5432	42.0	Pass	
L44	23 - 22.75	Pole	TP39.1522x39.0954x0.65	44	-40.6259	4879.2238	50.3	Pass	
L45	22.75 - 17.75	Pole	TP40.2873x39.1522x0.6375	45	-42.7586	4928.0278	51.5	Pass	
L46	17.75 - 12.75	Pole	TP41.4224x40.2873x0.625	46	-44.9278	4971.2458	52.6	Pass	
L47	12.75 - 7.75	Pole	TP42.5576x41.4224x0.6125	47	-47.1241	5008.8568	53.7	Pass	
L48	7.75 - 2.75	Pole	TP43.6927x42.5576x0.6	48	-49.3477	5040.8818	54.9	Pass	
L49	2.75 - 0	Pole	TP44.317x43.6927x0.6	49	-50.5796	5113.9198	54.9	Pass	
							Summary		
							Pole (L5)	79.1	Pass
							<b>RATING =</b>	<b>79.1</b>	<b>Pass</b>

**\*NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**



**APPENDIX B**  
**BASE LEVEL DRAWING**



**APPENDIX C**  
**ADDITIONAL CALCULATIONS**

Site BU: 842873

Work Order: 1839222



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**Pole Geometry**

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	140	38.42	0	18	13.161	21.882	0.1875	Auto	A572-65
2	101.58	53	4.42	18	21.88	33.913	0.3125	Auto	A572-65
3	53	53	0	18	32.28	44.317	0.3125	Auto	A572-65

**Reinforcement Configuration**

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0	31.42	plate	PL 5.75" x 1"	3																		
2	32.5	48.67	plate	PL 5.75" x 1"	3																		
3	58.92	70.08	plate	PL 5.75" x 1" (Lu = 16")	3																		
4	0	59.08	channel	MP3-04 (1.25in)	3																		
5	28.67	39.67	plate	CCI-SFP-060100	3																		
6	0	23.5	plate	CCI-SFP-060100	3																		
7	52	63	plate	CCI-SFP-060100	3																		
8	70	91	plate	CCI-SFP-060100	3																		
9	101.58	115	plate	CCI-AFP-045100	3																		
10	23	29	plate	CCI-SFP-060100	2																		
11																							

**Reinforcement Details**

	B (in)	H (in)	Gross Area (in <sup>2</sup> )	Pole Face to Centroid (in)	Bottom Termination Length (in)	Top Termination Length (in)	L <sub>u</sub> (in)	Net Area (in <sup>2</sup> )	Bolt Hole Size (in)	Reinforcement Material
1	5.75	1	5.75	0.5	23.000	23.000	14.000	4.438	1.2500	A572-65
2	5.75	1	5.75	0.5	23.000	23.000	14.000	4.438	1.2500	A572-65
3	5.75	1	5.75	0.5	23.000	23.000	16.000	4.438	1.2500	A572-65
4	4.78	1.61	4.13	0.61	17.000	17.000	18.000	3.566	1.2500	A572-65
5	6	1	6	0.5	24.000	24.000	16.000	4.750	1.1875	A572-65
6	6	1	6	0.5	24.000	24.000	16.000	4.750	1.1875	A572-65
7	6	1	6	0.5	24.000	24.000	16.000	4.750	1.1875	A572-65
8	6	1	6	0.5	24.000	24.000	16.000	4.750	1.1875	A572-65
9	4.5	1	4.5	0.5	24.000	24.000	20.000	3.250	1.1875	A572-65
10	6	1	6	0.5	24.000	24.000	16.000	4.750	1.1875	A572-65

# TNX Geometry Input

Increment (ft): 5

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	140 - 135	5		18	13.161	14.296	0.1875	A572-65	1.000
2	135 - 130	5		18	14.296	15.431	0.1875	A572-65	1.000
3	130 - 125	5		18	15.431	16.566	0.1875	A572-65	1.000
4	125 - 120	5		18	16.566	17.701	0.1875	A572-65	1.000
5	120 - 115	5		18	17.701	18.836	0.1875	A572-65	1.000
6	115 - 114.75	0.25		18	18.836	18.893	0.4625	A572-65	0.910
7	114.75 - 109.75	5		18	18.893	20.027	0.45	A572-65	0.905
8	109.75 - 104.75	5		18	20.027	21.162	0.425	A572-65	0.929
9	104.75 - 101.58	3.17	0	18	21.162	21.882	0.41875	A572-65	0.926
10	101.58 - 101.33	0.25		18	21.882	21.939	0.3125	A572-65	1.000
11	101.33 - 96.33	5		18	21.939	23.074	0.3125	A572-65	1.000
12	96.33 - 91.33	5		18	23.074	24.209	0.3125	A572-65	1.000
13	91.33 - 91	0.33		18	24.209	24.284	0.3125	A572-65	1.000
14	91 - 90.75	0.25		18	24.284	24.340	0.6	A572-65	0.925
15	90.75 - 85.75	5		18	24.340	25.475	0.5875	A572-65	0.926
16	85.75 - 80.75	5		18	25.475	26.610	0.5625	A572-65	0.948
17	80.75 - 75.75	5		18	26.610	27.745	0.55	A572-65	0.952
18	75.75 - 70.75	5		18	27.745	28.880	0.54375	A572-65	0.947
19	70.75 - 69.98	0.77		18	28.880	29.055	0.53125	A572-65	0.951
20	69.98 - 69.73	0.25		18	29.055	29.112	0.53125	A572-65	0.951
21	69.73 - 64.73	5		18	29.112	30.247	0.525	A572-65	0.948
22	64.73 - 63	1.73		18	30.247	30.640	0.51875	A572-65	0.954
23	63 - 62.75	0.25		18	30.640	30.696	0.7	A572-65	0.981
24	62.75 - 59.08	3.67		18	30.696	31.530	0.6875	A572-65	0.984
25	59.08 - 58.82	0.26		18	31.530	31.589	0.625	A572-65	1.000
26	58.82 - 58.67	0.15		18	31.589	31.623	0.625	A572-65	0.999
27	58.67 - 53.67	5		18	31.623	32.758	0.6125	A572-65	1.001
28	53.67 - 53	5.09	4.42	18	32.758	33.913	0.6125	A572-65	0.999
29	53 - 47.58	5.42		18	32.285	33.515	0.6375	A572-65	0.941
30	47.58 - 42.58	5		18	33.515	34.650	0.625	A572-65	0.944
31	42.58 - 39.67	2.91		18	34.650	35.311	0.6125	A572-65	0.954
32	39.67 - 39.42	0.25		18	35.311	35.368	0.8125	A572-65	0.925
33	39.42 - 34.42	5		18	35.368	36.503	0.7875	A572-65	0.936
34	34.42 - 32.5	1.92		18	36.503	36.939	0.7875	A572-65	0.929
35	32.5 - 32.25	0.25		18	36.939	36.995	0.6125	A572-65	0.944
36	32.25 - 31.42	0.83		18	36.995	37.184	0.6	A572-65	0.961
37	31.42 - 31.17	0.25		18	37.184	37.241	0.775	A572-65	0.939
38	31.17 - 29	2.17		18	37.241	37.733	0.7625	A572-65	0.947
39	29 - 28.65	0.35		18	37.733	37.813	0.675	A572-65	0.991
40	28.65 - 28.42	0.23		18	37.813	37.865	0.675	A572-65	0.990
41	28.42 - 23.5	4.92		18	37.865	38.982	0.6625	A572-65	0.993
42	23.5 - 23.25	0.25		18	38.982	39.039	0.7875	A572-65	1.026
43	23.25 - 23	0.25		18	39.039	39.095	0.7875	A572-65	1.025
44	23 - 22.75	0.25		18	39.095	39.152	0.65	A572-65	1.085
45	22.75 - 17.75	5		18	39.152	40.287	0.6375	A572-65	1.088
46	17.75 - 12.75	5		18	40.287	41.422	0.625	A572-65	1.092
47	12.75 - 7.75	5		18	41.422	42.558	0.6125	A572-65	1.098
48	7.75 - 2.75	5		18	42.558	43.693	0.6	A572-65	1.105
49	2.75 - 0	2.75		18	43.693	44.317	0.6	A572-65	1.096

## TNX Section Forces

Increment (ft):		TNX Output			
	5	Section Height (ft)	P <sub>u</sub> (K)	M <sub>ux</sub> (kip-ft)	V <sub>u</sub> (K)
1	140 - 135		2.85	26.81	5.48
2	135 - 130		3.10	54.73	5.69
3	130 - 125		6.97	109.58	12.37
4	125 - 120		7.38	171.88	12.56
5	120 - 115		10.44	251.68	16.07
6	115 - 114.75		10.49	255.69	16.08
7	114.75 - 109.75		11.25	337.08	16.52
8	109.75 - 104.75		12.04	420.65	16.96
9	104.75 - 101.58		12.55	474.76	17.24
10	101.58 - 101.33		12.60	479.07	17.24
11	101.33 - 96.33		13.23	569.06	18.41
12	96.33 - 91.33		14.04	662.43	18.95
13	91.33 - 91		14.10	668.68	18.97
14	91 - 90.75		14.16	673.43	19.00
15	90.75 - 85.75		15.28	770.08	19.64
16	85.75 - 80.75		16.43	869.89	20.28
17	80.75 - 75.75		17.61	972.85	20.91
18	75.75 - 70.75		22.92	1087.27	24.13
19	70.75 - 69.98		23.12	1105.90	24.24
20	69.98 - 69.73		23.20	1111.96	24.27
21	69.73 - 64.73		24.49	1234.97	24.93
22	64.73 - 63		24.94	1278.30	25.17
23	63 - 62.75		25.05	1284.60	25.19
24	62.75 - 59.08		26.26	1378.06	25.73
25	59.08 - 58.82		26.36	1384.75	25.76
26	58.82 - 58.67		26.41	1388.62	25.78
27	58.67 - 53.67		28.01	1519.22	26.45
28	53.67 - 53		28.23	1536.97	26.53
29	53 - 47.58		31.16	1683.06	27.38
30	47.58 - 42.58		32.81	1821.55	28.01
31	42.58 - 39.67		33.78	1903.61	28.39
32	39.67 - 39.42		33.90	1910.71	28.41
33	39.42 - 34.42		35.91	2054.86	29.24
34	34.42 - 32.5		36.70	2111.20	29.52
35	32.5 - 32.25		36.80	2118.57	29.52
36	32.25 - 31.42		37.08	2143.09	29.62
37	31.42 - 31.17		37.19	2150.49	29.64
38	31.17 - 29		38.09	2215.08	29.94
39	29 - 28.65		38.23	2225.55	29.97
40	28.65 - 28.42		38.33	2232.44	29.99
41	28.42 - 23.5		40.27	2381.15	30.51
42	23.5 - 23.25		40.40	2388.77	30.53
43	23.25 - 23		40.52	2396.40	30.55
44	23 - 22.75		40.63	2404.03	30.58
45	22.75 - 17.75		42.76	2558.10	31.10
46	17.75 - 12.75		44.93	2714.68	31.60
47	12.75 - 7.75		47.12	2873.76	32.10
48	7.75 - 2.75		49.35	3035.32	32.60
49	2.75 - 0		50.58	3125.23	32.87

# Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
140 - 135	Pole	TP14.296x13.161x0.1875	Pole	14.6%	Pass
135 - 130	Pole	TP15.431x14.296x0.1875	Pole	25.2%	Pass
130 - 125	Pole	TP16.566x15.431x0.1875	Pole	43.9%	Pass
125 - 120	Pole	TP17.701x16.566x0.1875	Pole	59.8%	Pass
120 - 115	Pole	TP18.836x17.701x0.1875	Pole	78.2%	Pass
115 - 114.75	Pole + Reinf.	TP18.893x18.836x0.4625	Reinf. 9 Tension Rupture	58.0%	Pass
114.75 - 109.75	Pole + Reinf.	TP20.027x18.893x0.45	Reinf. 9 Tension Rupture	70.3%	Pass
109.75 - 104.75	Pole + Reinf.	TP21.162x20.027x0.425	Reinf. 9 Tension Rupture	80.9%	Pass
104.75 - 101.58	Pole + Reinf.	TP21.882x21.162x0.4188	Reinf. 9 Tension Rupture	87.0%	Pass
101.58 - 101.33	Pole	TP21.939x21.882x0.3125	Pole	65.6%	Pass
101.33 - 96.33	Pole	TP23.074x21.939x0.3125	Pole	70.2%	Pass
96.33 - 91.33	Pole	TP24.209x23.074x0.3125	Pole	74.0%	Pass
91.33 - 91	Pole	TP24.284x24.209x0.3125	Pole	74.3%	Pass
91 - 90.75	Pole + Reinf.	TP24.34x24.284x0.6	Reinf. 8 Tension Rupture	64.5%	Pass
90.75 - 85.75	Pole + Reinf.	TP25.475x24.34x0.5875	Reinf. 8 Tension Rupture	68.7%	Pass
85.75 - 80.75	Pole + Reinf.	TP26.61x25.475x0.5625	Reinf. 8 Tension Rupture	72.4%	Pass
80.75 - 75.75	Pole + Reinf.	TP27.745x26.61x0.55	Reinf. 8 Tension Rupture	75.8%	Pass
75.75 - 70.75	Pole + Reinf.	TP28.88x27.745x0.5438	Reinf. 8 Tension Rupture	79.6%	Pass
70.75 - 69.98	Pole + Reinf.	TP29.055x28.88x0.5313	Reinf. 3 Tension Rupture	83.7%	Pass
69.98 - 69.73	Pole + Reinf.	TP29.112x29.055x0.5313	Reinf. 3 Tension Rupture	83.9%	Pass
69.73 - 64.73	Pole + Reinf.	TP30.247x29.112x0.525	Reinf. 3 Tension Rupture	87.5%	Pass
64.73 - 63	Pole + Reinf.	TP30.64x30.247x0.5188	Reinf. 3 Tension Rupture	88.7%	Pass
63 - 62.75	Pole + Reinf.	TP30.696x30.64x0.7	Reinf. 3 Tension Rupture	68.5%	Pass
62.75 - 59.08	Pole + Reinf.	TP31.53x30.696x0.6875	Reinf. 3 Tension Rupture	70.6%	Pass
59.08 - 58.82	Pole + Reinf.	TP31.589x31.53x0.625	Reinf. 4 Tension Rupture	72.3%	Pass
58.82 - 58.67	Pole + Reinf.	TP31.623x31.589x0.625	Reinf. 4 Tension Rupture	72.3%	Pass
58.67 - 53.67	Pole + Reinf.	TP32.758x31.623x0.6125	Reinf. 4 Tension Rupture	75.0%	Pass
53.67 - 53	Pole + Reinf.	TP33.913x32.758x0.6125	Reinf. 4 Tension Rupture	75.3%	Pass
53 - 47.58	Pole + Reinf.	TP33.515x32.285x0.6375	Reinf. 2 Tension Rupture	80.0%	Pass
47.58 - 42.58	Pole + Reinf.	TP34.65x33.515x0.625	Reinf. 2 Tension Rupture	82.3%	Pass
42.58 - 39.67	Pole + Reinf.	TP35.311x34.65x0.6125	Reinf. 2 Tension Rupture	83.6%	Pass
39.67 - 39.42	Pole + Reinf.	TP35.368x35.311x0.8125	Reinf. 2 Tension Rupture	64.9%	Pass
39.42 - 34.42	Pole + Reinf.	TP36.503x35.368x0.7875	Reinf. 2 Tension Rupture	66.8%	Pass
34.42 - 32.5	Pole + Reinf.	TP36.939x36.503x0.7875	Reinf. 2 Tension Rupture	67.5%	Pass
32.5 - 32.25	Pole + Reinf.	TP36.995x36.939x0.6125	Reinf. 5 Tension Rupture	83.4%	Pass
32.25 - 31.42	Pole + Reinf.	TP37.184x36.995x0.6	Reinf. 5 Tension Rupture	83.8%	Pass
31.42 - 31.17	Pole + Reinf.	TP37.241x37.184x0.775	Reinf. 1 Tension Rupture	67.9%	Pass
31.17 - 29	Pole + Reinf.	TP37.733x37.241x0.7625	Reinf. 1 Tension Rupture	68.7%	Pass
29 - 28.65	Pole + Reinf.	TP37.813x37.733x0.675	Reinf. 1 Tension Rupture	81.8%	Pass
28.65 - 28.42	Pole + Reinf.	TP37.865x37.813x0.675	Reinf. 1 Tension Rupture	81.8%	Pass
28.42 - 23.5	Pole + Reinf.	TP38.982x37.865x0.6625	Reinf. 1 Tension Rupture	83.5%	Pass
23.5 - 23.25	Pole + Reinf.	TP39.039x38.982x0.7875	Reinf. 1 Tension Rupture	68.3%	Pass
23.25 - 23	Pole + Reinf.	TP39.095x39.039x0.7875	Reinf. 1 Tension Rupture	68.4%	Pass
23 - 22.75	Pole + Reinf.	TP39.152x39.095x0.65	Reinf. 1 Tension Rupture	83.1%	Pass
22.75 - 17.75	Pole + Reinf.	TP40.287x39.152x0.6375	Reinf. 1 Tension Rupture	84.7%	Pass
17.75 - 12.75	Pole + Reinf.	TP41.422x40.287x0.625	Reinf. 1 Tension Rupture	86.2%	Pass
12.75 - 7.75	Pole + Reinf.	TP42.558x41.422x0.6125	Reinf. 1 Tension Rupture	87.5%	Pass
7.75 - 2.75	Pole + Reinf.	TP43.693x42.558x0.6	Reinf. 1 Tension Rupture	88.8%	Pass
2.75 - 0	Pole + Reinf.	TP44.317x43.693x0.6	Reinf. 1 Tension Rupture	89.5%	Pass
				Summary	
			Pole	78.2%	Pass
			Reinforcement	89.5%	Pass
			Overall	89.5%	Pass

# Additional Calculations

Section Elevation (ft)	Moment of Inertia (in <sup>4</sup> )			Area (in <sup>2</sup> )			% Capacity*										
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
140 - 135	211	n/a	211	8.40	n/a	8.40	14.6%										
135 - 130	266	n/a	266	9.07	n/a	9.07	25.2%										
130 - 125	330	n/a	330	9.75	n/a	9.75	43.9%										
125 - 120	404	n/a	404	10.42	n/a	10.42	59.8%										
120 - 115	487	n/a	487	11.10	n/a	11.10	78.2%										
115 - 114.75	492	680	1172	11.13	13.50	24.63	32.9%									58.0%	
114.75 - 109.75	587	758	1345	11.81	13.50	25.31	40.5%									70.3%	
109.75 - 104.75	694	841	1534	12.48	13.50	25.98	47.4%									80.9%	
104.75 - 101.58	767	896	1663	12.91	13.50	26.41	51.5%									87.0%	
101.58 - 101.33	1267	n/a	1267	21.45	n/a	21.45	65.6%										
101.33 - 96.33	1477	n/a	1477	22.58	n/a	22.58	70.2%										
96.33 - 91.33	1709	n/a	1709	23.70	n/a	23.70	74.0%										
91.33 - 91	1726	n/a	1726	23.78	n/a	23.78	74.3%										
91 - 90.75	1738	1473	3210	23.83	18.00	41.83	39.8%								64.5%		
90.75 - 85.75	1996	1605	3601	24.96	18.00	42.96	42.5%								68.7%		
85.75 - 80.75	2278	1743	4021	26.08	18.00	44.08	44.8%								72.4%		
80.75 - 75.75	2586	1887	4473	27.21	18.00	45.21	47.0%								75.8%		
75.75 - 70.75	2921	2037	4957	28.33	18.00	46.33	49.5%								79.6%		
70.75 - 69.98	2975	1972	4947	28.51	17.25	45.76	50.7%			83.7%							
69.98 - 69.73	2992	1980	4972	28.56	17.25	45.81	50.8%			83.9%							
69.73 - 64.73	3360	2130	5490	29.69	17.25	46.94	53.2%			87.5%							
64.73 - 63	3494	2183	5677	30.08	17.25	47.33	54.2%			88.7%							
63 - 62.75	3520	4069	7589	30.14	35.25	65.39	42.5%			68.5%				63.1%			
62.75 - 59.08	3817	4283	8100	30.96	35.25	66.21	44.1%			70.6%				65.1%			
59.08 - 58.82	3836	3575	7411	31.02	30.39	61.41	48.1%				72.3%			70.6%			
58.82 - 58.67	3848	3583	7431	31.05	30.39	61.44	48.2%				72.3%			70.7%			
58.67 - 53.67	4282	3833	8115	32.18	30.39	62.57	50.5%				75.0%			73.3%			
53.67 - 53	4342	3867	8209	32.33	30.39	62.72	50.8%				75.3%			73.7%			
53 - 47.58	4585	4469	9054	32.93	29.64	62.57	50.1%		80.0%		75.0%						
47.58 - 42.58	5072	4764	9836	34.06	29.64	63.70	52.1%		82.3%		77.2%						
42.58 - 39.67	5370	4941	10311	34.71	29.64	64.35	53.2%		83.6%		78.4%						
39.67 - 39.42	5396	7960	13356	34.77	47.64	82.41	41.4%		64.9%		60.9%	63.3%					
39.42 - 34.42	5938	8460	14398	35.89	47.64	83.53	43.0%		66.8%		62.6%	65.1%					
34.42 - 32.5	6155	8656	14811	36.33	47.64	83.97	43.6%		67.5%		63.3%	65.8%					
32.5 - 32.25	6183	5544	11728	36.38	30.39	66.77	55.4%				80.3%	83.4%					
32.25 - 31.42	6279	5599	11878	36.57	30.39	66.96	55.7%				80.6%	83.8%					
31.42 - 31.17	6308	8793	15102	36.63	47.64	84.27	44.0%	67.9%			63.7%	66.2%					
31.17 - 29	6564	9019	15584	37.12	47.64	84.76	44.7%	68.7%			64.4%	67.0%					
29 - 28.65	6667	7167	13834	37.19	41.64	78.83	54.9%	81.8%			80.5%						67.4%
28.65 - 28.42	6695	7186	13881	37.25	41.64	78.89	54.9%	81.8%			80.6%						67.5%
28.42 - 23.5	7308	7603	14911	38.35	41.64	79.99	56.7%	83.5%			82.2%						69.1%
23.5 - 23.25	7299	10570	17870	38.41	59.64	98.05	46.4%	68.3%			64.1%		62.4%				63.6%
23.25 - 23	7331	10600	17931	38.47	59.64	98.11	46.5%	68.4%			64.1%		62.4%				63.7%
23 - 22.75	7349	7433	14783	38.52	47.64	86.16	55.6%	83.1%			74.1%		65.4%				
22.75 - 17.75	8012	7855	15867	39.65	47.64	87.29	57.3%	84.7%			75.6%		66.8%				
17.75 - 12.75	8714	8288	17002	40.77	47.64	88.41	58.9%	86.2%			76.9%		68.2%				
12.75 - 7.75	9456	8733	18189	41.90	47.64	89.54	60.5%	87.5%			78.2%		69.4%				
7.75 - 2.75	10238	9190	19428	43.03	47.64	90.67	62.0%	88.8%			79.4%		70.6%				
2.75 - 0	10687	9446	20132	43.65	47.64	91.29	62.9%	89.5%			80.0%		71.2%				

Note: Section capacity checked in 5 degree increments.  
Rating per TIA-222-H Section 15.5.



# Monopole Flange Plate Connection

Elevation = 101.58 ft.

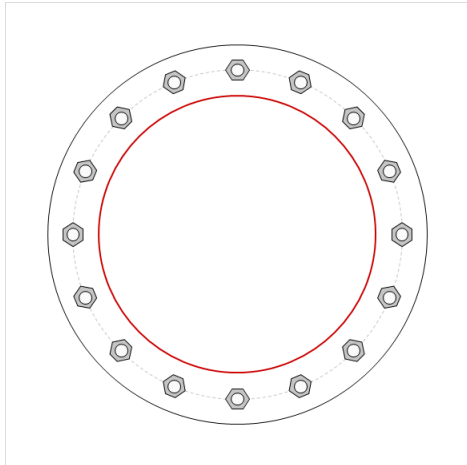


BU #	842873
Site Name	SHELTON NE
Order #	516676 Rev. 0
TIA-222 Revision	H

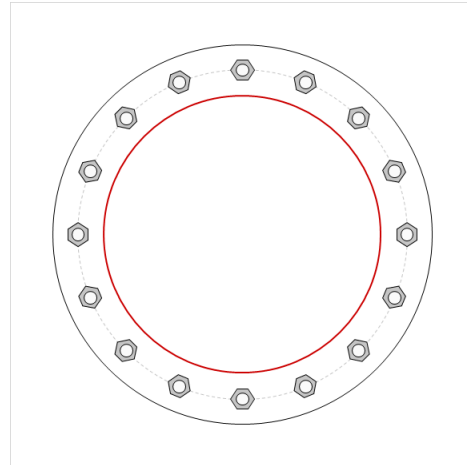
Applied Loads	
Moment (kip-ft)	474.76
Axial Force (kips)	12.55
Shear Force (kips)	17.24

\*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



### Connection Properties

#### Bolt Data

(16) 1"  $\emptyset$  bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 26" BC

#### Top Plate Data

30" OD x 1.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

#### Top Stiffener Data

N/A

#### Top Pole Data

21.882" x 0.1875" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

#### Bottom Plate Data

30" OD x 1.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

#### Bottom Stiffener Data

N/A

#### Bottom Pole Data

21.882" x 0.3125" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

### Analysis Results

#### Bolt Capacity

Max Load (kips)	53.96
Allowable (kips)	54.51
Stress Rating:	<b>94.3% Pass</b>

#### Top Plate Capacity

Max Stress (ksi):	28.39	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	<b>60.1%</b>	<b>Pass</b>
Tension Side Stress Rating:	<b>55.7%</b>	<b>Pass</b>

#### Bottom Plate Capacity

Max Stress (ksi):	28.39	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	<b>60.1%</b>	<b>Pass</b>
Tension Side Stress Rating:	<b>55.7%</b>	<b>Pass</b>

# Monopole Base Plate Connection

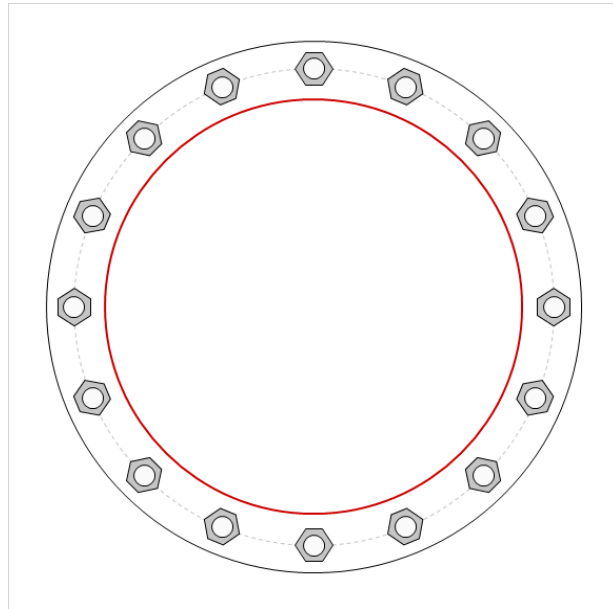


Site Info	
BU #	842873
Site Name	SHELTON NE
Order #	516676 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
$l_{ar}$ (in)	1.25

Applied Loads	
Moment (kip-ft)	3125.23
Axial Force (kips)	50.58
Shear Force (kips)	32.87

\*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data
GROUP 1: (8) 2-1/4" $\phi$ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 51" BC
GROUP 2: (4) 2-1/4" $\phi$ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 51" BC
GROUP 3: (4) 2-1/4" $\phi$ bolts (F1554-105 N; $F_y=105$ ksi, $F_u=125$ ksi) on 51" BC
Base Plate Data
57" OD x 2.25" Plate (A633 Grade E; $F_y=60$ ksi, $F_u=70$ ksi)
Stiffener Data
N/A
Pole Data
44.317" x 0.3125" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary			<i>(units of kips, kip-in)</i>
<b>GROUP 1:</b>			
$P_{u,c} = 190.01$	$\phi P_{n,c} = 243.75$	<b>Stress Rating</b>	
$V_u = 4.11$	$\phi V_n = 73.13$	<b>74.5%</b>	
$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>	
<b>GROUP 2:</b>			
$P_{u,c} = 183.52$	$\phi P_{n,c} = 243.75$	<b>Stress Rating</b>	
$V_u = 0$	$\phi V_n = 73.13$	<b>71.7%</b>	
$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>	
<b>GROUP 3:</b>			
$P_{u,c} = 183.52$	$\phi P_{n,c} = 341.25$	<b>Stress Rating</b>	
$V_u = 0$	$\phi V_n = 102.38$	<b>51.2%</b>	
$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>	
<b>Base Plate Summary</b>			
Max Stress (ksi):	34.76	(Flexural)	
Allowable Stress (ksi):	54		
Stress Rating:	<b>61.3%</b>	<b>Pass</b>	

## Drilled Pier Foundation

BU # :	842873
Site Name:	SHELTON NE
Order Number:	492771 Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole



Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	3125	
Axial Force (kips)	51	
Shear Force (kips)	33	

Material Properties	
Concrete Strength, f <sub>c</sub> :	4 ksi
Rebar Strength, F <sub>y</sub> :	60 ksi

Pier Design Data	
Depth	14 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
<i>From 0.5' above grade to 14' below grade</i>	
Pier Diameter	6 ft
Rebar Quantity	26
Rebar Size	11
Clear Cover to Ties	3 in
Tie Size	5

Analysis Results		
Soil Lateral Capacity	Compression	Uplift
D <sub>v=0</sub> (ft from TOC)	3.78	-
Soil Safety Factor	1.69	-
Max Moment (kip-ft)	3266.49	-
Rating*	75.1%	-
Soil Vertical Capacity	Compression	Uplift
Skin Friction (kips)	318.06	-
End Bearing (kips)	254.47	-
Weight of Concrete (kips)	73.80	-
Total Capacity (kips)	572.53	-
Axial (kips)	124.80	-
Rating*	20.8%	-
Reinforced Concrete Capacity	Compression	Uplift
Critical Depth (ft from TOC)	3.81	-
Critical Moment (kip-ft)	3266.46	-
Critical Moment Capacity	5364.82	-
Rating*	58.0%	-
<b>Soil Interaction Rating*</b>	<b>75.1%</b>	
<b>Structural Foundation Rating*</b>	<b>58.0%</b>	

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
	N/A <input type="checkbox"/>

\*Rating per TIA-222-H Section 15.5

Soil Profile		
Groundwater Depth	n/a	ft
# of Layers	2	

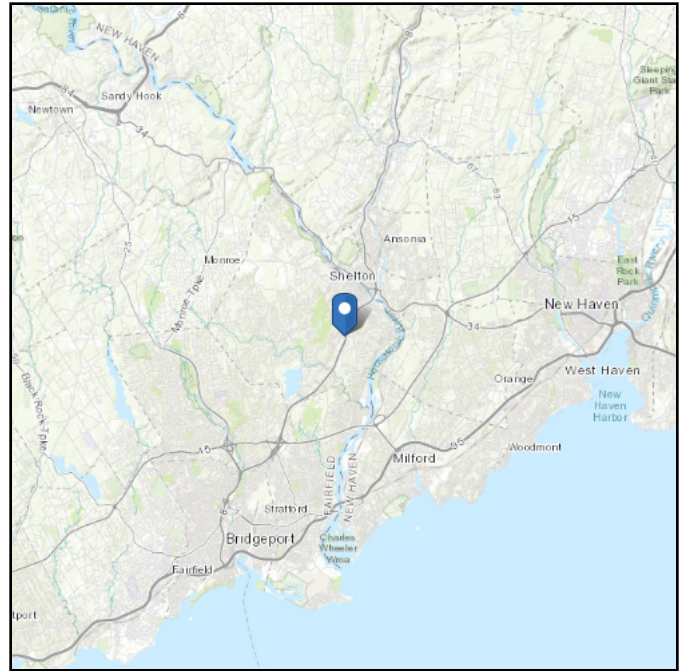
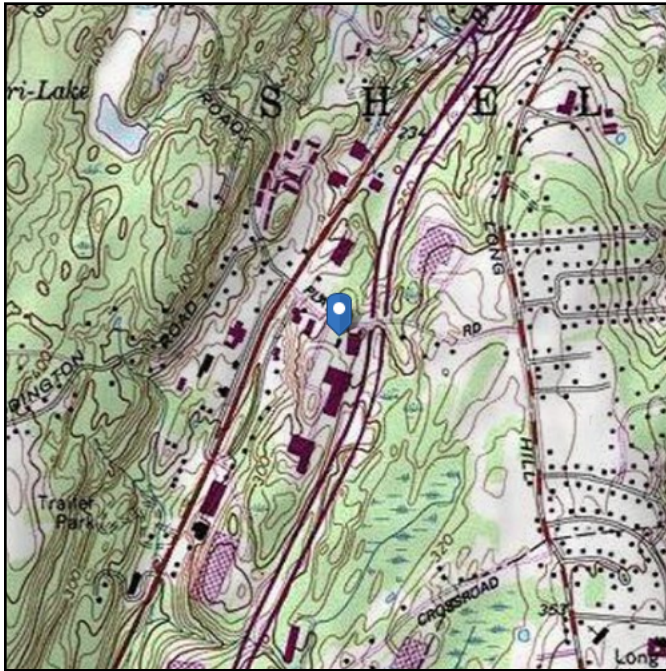
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ <sub>soil</sub> (pcf)	γ <sub>concrete</sub> (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	165	150	0	0	0.000	0.000					Cohesionless
2	3	14	11	165	150	4	0	2.045	2.045			12		Cohesive

# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-10  
**Risk Category:** II  
**Soil Class:** D - Stiff Soil

**Elevation:** 311.07 ft (NAVD 88)  
**Latitude:** 41.293947  
**Longitude:** -73.107175



## Wind

### Results:

Wind Speed:	<b>125 mph jurisdiction requirement</b>
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	93 Vmph
100-year MRI	99 Vmph

**Data Source:** ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014

**Date Accessed:** Wed Apr 08 2020

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

## Ice

---

**Results:**

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

**Date Accessed:** Wed Apr 08 2020

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

---

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

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

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



BU: 842873  
 WO: 1839222  
 Order: 516676

Structure: A  
 Rev: 0

**Location**

	Decimal Degrees	Deg	Min	Sec	
Lat:	41.293947	+	41	17	38.21
Long:	-73.107175	-	73	6	25.83

**Code and Site Parameters**

Seismic Design Code: ASCE 7-10  
 Site Soil: D Stiff Soil (Default)  
 Risk Category: II

USGS Seismic Reference

S<sub>S</sub>: 0.1990 g  
 S<sub>1</sub>: 0.0640 g  
 T<sub>L</sub>: 6 s

**Seismic Design Category Determination**

Importance Factor, I<sub>e</sub>: 1  
 Acceleration-based site coefficient, F<sub>a</sub>: 1.6000  
 Velocity-based site coefficient, F<sub>v</sub>: 2.4000

Design spectral response acceleration short period, S<sub>DS</sub>: 0.2123 g  
 Design spectral response acceleration 1 s period, S<sub>D1</sub>: 0.1024 g

Seismic Design Category Based on S<sub>DS</sub>: B  
 Seismic Design Category Based on S<sub>D1</sub>: B  
 Seismic Design Category Based on S<sub>1</sub>: N/A

Controlling Seismic Design Category: B

# Exhibit E

## **Mount Analysis**

April 7, 2020

Darcy Tarr  
Crown Castle  
3530 Toringdon Way, Suite 300  
Charlotte, NC 28277  
(704) 405-6589



Tower Engineering Professionals  
326 Tryon Road  
Raleigh, NC 27603  
(919) 661-6351  
[Structures@tepgroup.net](mailto:Structures@tepgroup.net)

**Subject:** Mount Analysis

**Carrier Designation:** AT&T Mobility Reconfiguration  
**Client Site Number:** CTL05431  
**Client Site Name:** SHELTON NE  
**FA Location Code:** 10071231

**Crown Castle Designation:** **Crown Castle BU Number:** 842873  
**Crown Castle Site Name:** SHELTON NE  
**Crown Castle JDE Job Number:** 604959  
**Crown Castle Order Number:** 516676 Rev. 0

**Engineering Firm Designation:** **TEP Project Number:** 63208.396480

**Site Data:** 30 Oliver Terrace, Shelton, Fairfield County, CT 06484  
Latitude 41° 17' 38.21", Longitude -73° 6' 25.83"

**Structure Information:** **Tower Height & Type:** 140.0± ft Monopole  
**Mount Elevation:** 129.0 ft  
**Mount Width & Type:** 13 ft Sector

Dear Darcy Tarr,

Tower Engineering Professionals is pleased to submit this “**Mount Analysis**” to determine the structural integrity of AT&T Mobility’s antenna mounting system with proposed appurtenance and equipment addition on the above mentioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis, we have determined the mount stress level to be:

**Sector Mount**

**Sufficient Capacity**

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 125 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Dante M. Lo Greco / GHM

Respectfully submitted by:

Aaron T. Rucker, P.E.  
Structural Division Manager



Electronic Copy

04/07/2020



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### 1) INTRODUCTION

The mount is an existing 3-sector, 13-ft Sector mount, designed by Sabre.

### 2) ANALYSIS CRITERIA

<b>Building Code:</b>	2018 IBC
<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Ultimate Wind Speed:</b>	125 mph
<b>Exposure Category:</b>	B
<b>Topographic Category at Base:</b>	1.0
<b>Topographic Category at Mount:</b>	1.0
<b>Ice Thickness:</b>	1.0 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Seismic Design Category:</b>	B
<b>Seismic S<sub>s</sub>:</b>	0.204
<b>Seismic S<sub>1</sub>:</b>	0.054
<b>Live Loading Wind Speed:</b>	30 mph
<b>Live Loading at Mid/End-Points:</b>	250 lb
<b>Man Live Loading at Mount Pipes:</b>	500 lb

**Table 1 - Proposed Equipment Configuration**

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
129.0	129.0	3	CCI Antennas	DMP65R-BU6D	Sector Mount
		6	CCI Antennas	HPA-65R-BUU-H6	
		3	CCI Antennas	OPA65R-BU6D	
		3	Ericsson	Radio 4415 B30	
		3	Ericsson	RRUS 32 B2 <sup>1</sup>	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 32 B66A	
		3	Ericsson	4478 B14_CCIV2	
		1	Raycap	DC6-48-60-18-8C-EV	
		2	Raycap	DC6-48-60-0-8C-EV	

Notes:

- 1) Equipment mounted directly to tower and not considered in this analysis

### 3) ANALYSIS PROCEDURE

**Table 2 - Documents Provided**

Document	Remarks	Reference	Source
Previous Mount Analysis	Tower Engineering Professionals, Inc.	8660458	CCIsites
Loading Application	AT&T Mobility	Order 516676 Rev. 0	CCIsites

### 3.1) Analysis Method

RISA-3D (Version 17.0.1), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

TEP Mount Analysis Tool, a tool internally developed by TEP using Microsoft Excel, was used to calculate member loading for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis (Revision C)*. In addition, this analysis is in accordance with AT&T's *Mount Technical Directive – R14.1*.

### 3.2) Assumptions

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
- 4) All mount components are in sufficient condition to carry their full design capacity.
- 5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
- 6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15<sup>th</sup> Edition. See RISA-3D output for confirmation on grades used in this analysis.

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the antenna mounting system.

#### 4) ANALYSIS RESULTS

**Table 3 - Mount Component Stresses vs. Capacity (Sector Mount)**

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	M48	129.0	30.0	Pass
1	Support Horizontals	M34	129.0	37.4	Pass
1	Bracing Members	SF3-V2	129.0	12.4	Pass
1	Mount Pipes	MP-3	129.0	37.6	Pass
1	Mast Pipe	Mast	129.0	1.6	Pass
1	Stabilizer Arm	M69	129.0	31.6	Pass
1	Back Connection Spread	BC-TH	129.0	25.8	Pass
2	Connection Bolts	-	129.0	12.1	Pass

<b>Structure Rating (max from all components) =</b>	<b>37.6%</b>
---	--------------

Notes:

- 1) See additional documentation in "Appendix C - Analysis Output" for calculations supporting the % capacity listed.
- 2) See additional documentation in "Appendix D - Additional Calculations" for calculations supporting the % capacity listed.

**Table 4 - Tieback Connection Data Table**

Tower Connection Node No.	Existing/ Proposed	Resultant End Reaction (lb)	Connected Member Type	Connected Member Size	Member Compressive Capacity (lb) <sup>3</sup>	Notes
-	-	-	-	-	-	-

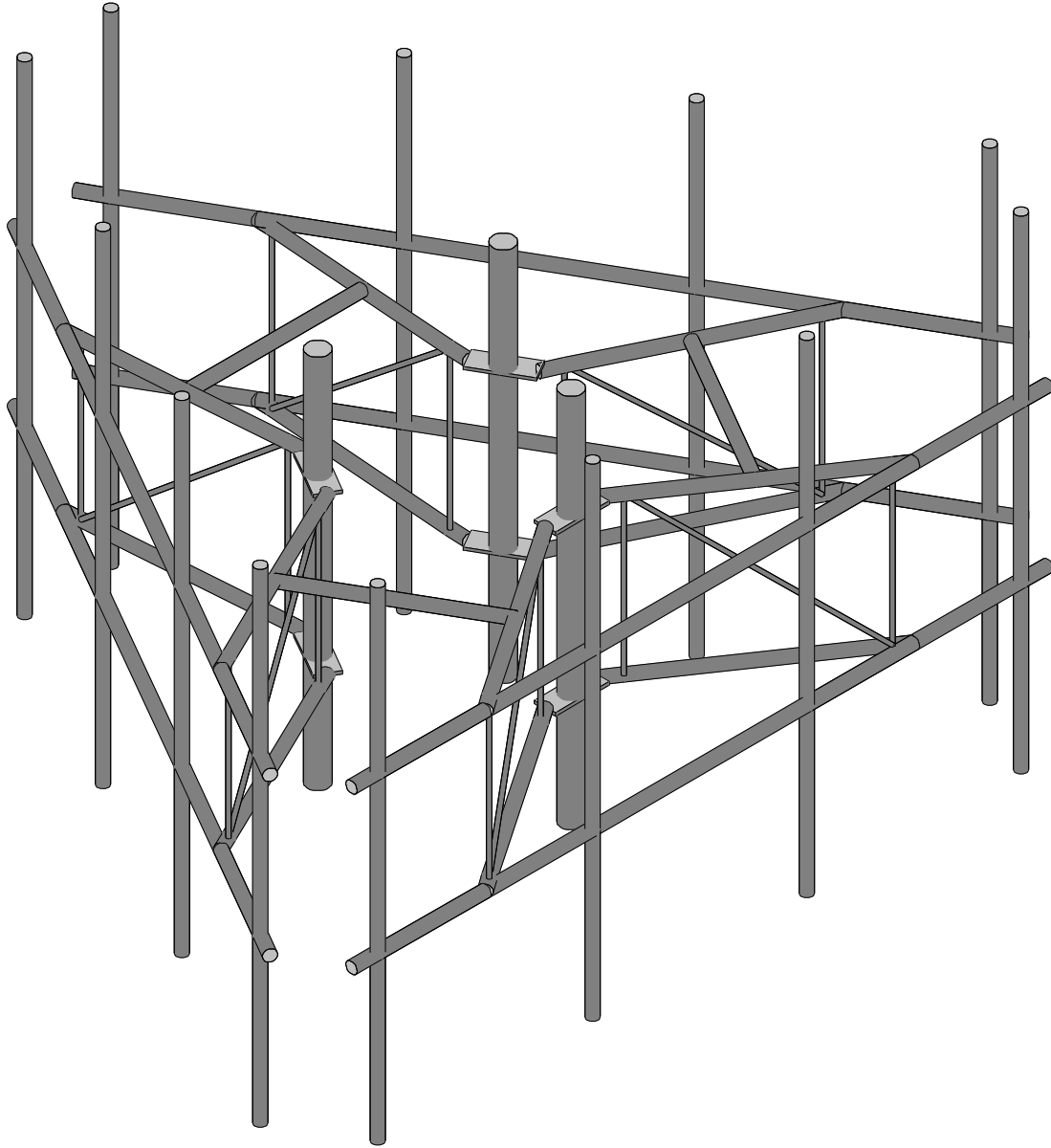
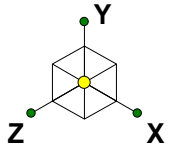
Notes:

- 1) Tieback connection point is within 25% of either end of the connected tower member.
- 2) Tower connection point is NOT within 25% of either end of the connected tower member.
- 3) Reduced member compressive capacity according to CED-STD-10294 *Standard for Installation of Mounts and Appurtenances*.

#### 4.1) Recommendations

- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount and its connection have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

**APPENDIX A**  
**WIRE FRAME AND RENDERED MODELS**



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DMLG  
TEP No. 63208.396480

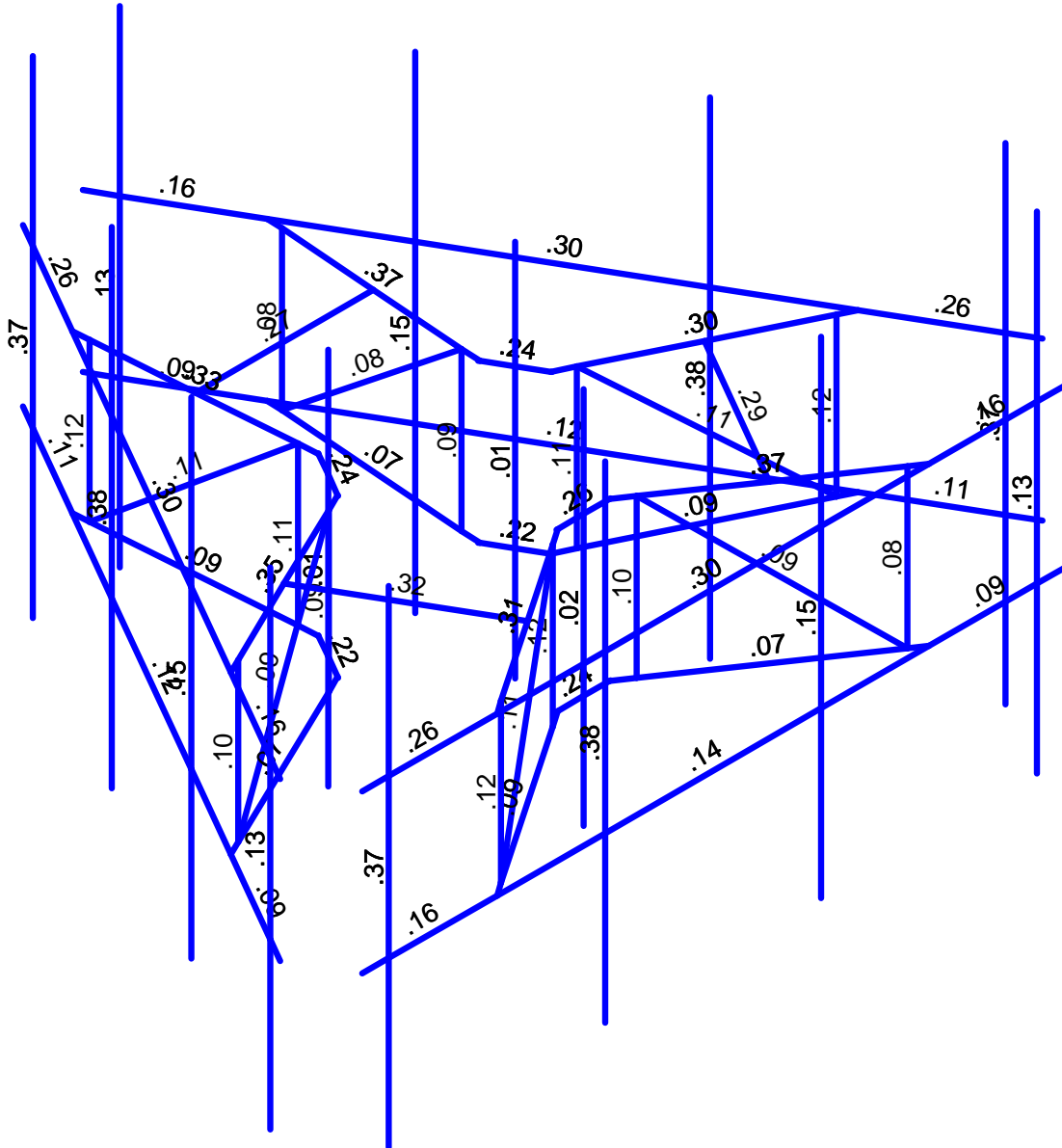
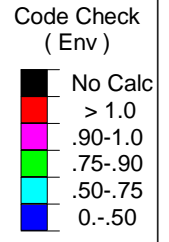
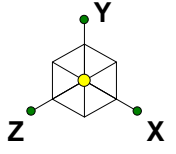
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SK - 1

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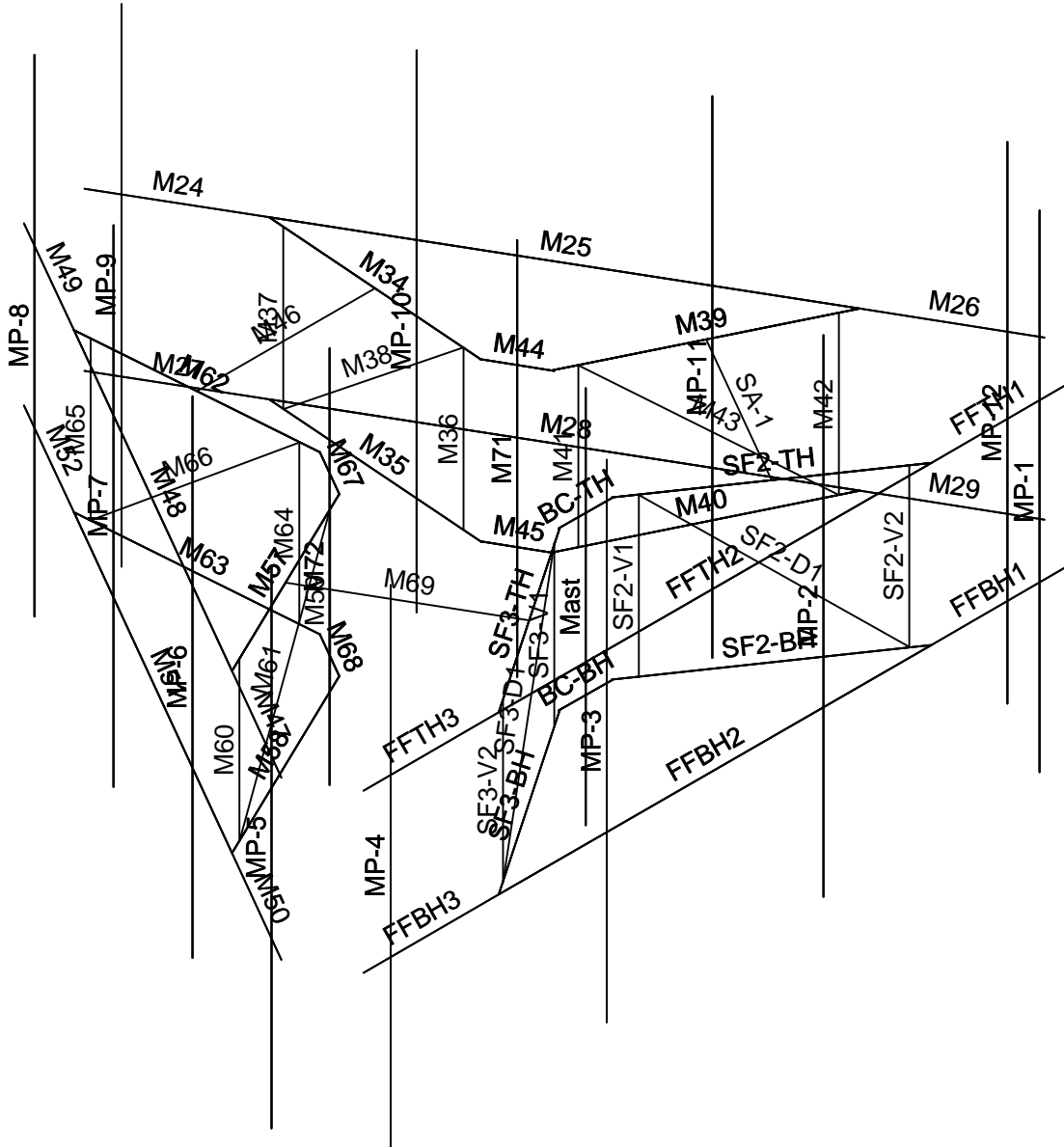
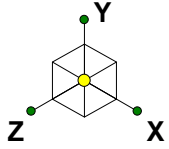




Member Code Checks Displayed (Enveloped)  
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Tower Engineering Profess...	CCI BU No. 842873	SK - 2
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Tower Engineering Profess...

DMLG

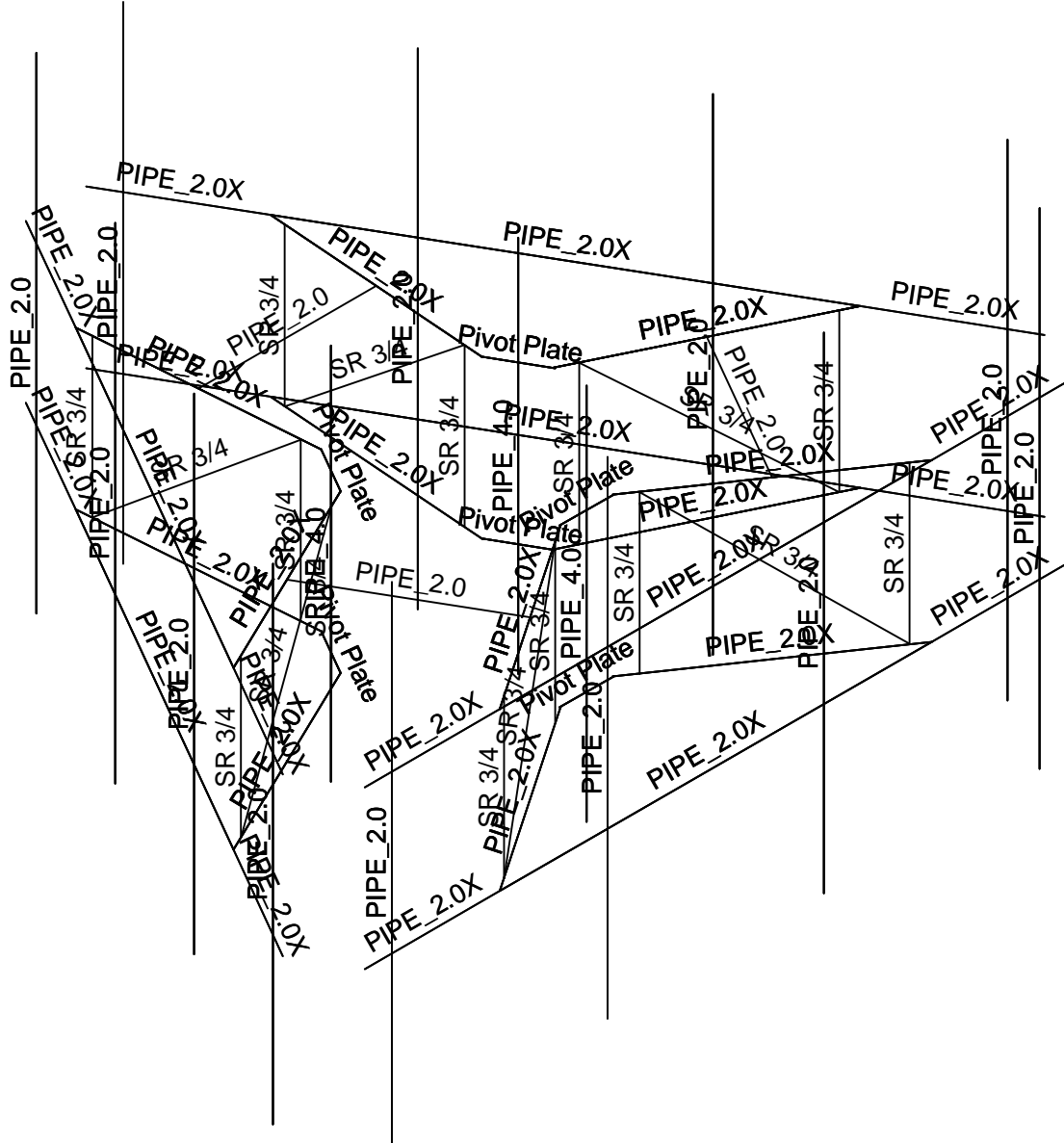
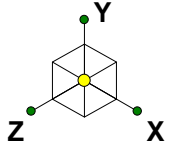
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CCI BU No. 842873

SK - 4

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DMLG

TEP No. 63208.396480

CCI BU No. 842873

SK - 5

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**APPENDIX B**  
**SOFTWARE INPUT CALCULATIONS**



Code Revisions:	TIA-222-H	IBC 2018
Tower Type:	Monopole	

Wind Inputs:

Ult. Wind Velocity:	125.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	129.0	ft
Antenna Centerline:	129.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	311	ft

Wind Calculations:

$K_{zt}$ :	1.000	Section 2.6.6
$K_d$ :	0.950	
$K_{z-Mount}$ :	1.063	Section 2.6.5.2
$K_{z-Antenna}$ :	1.063	Section 2.6.5.2
$K_{iz}$ :	1.146	Section 2.6.10
Ice Thickness:	1.146	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_z G_h)_{Mount}$ :	39.93	$(q_z G_h)_{Mount}$ :	6.39
$(q_z G_h)_{Antenna}$ :	39.93	$(q_z G_h)_{Antenna}$ :	6.39



Antenna Loads are Calculated in Accordance with TIA-222-H

Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
CCI Antennas	HPA-65R-BUU-H6	72.00	14.80	9.00	51.00	0.00	1	Flat	MP-1	2.00	5.75	
CCI Antennas	HPA-65R-BUU-H6	72.00	14.80	9.00	51.00	0.00	1	Flat	MP-2	2.00	5.75	
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	60.20	0.00	1	Flat	MP-3	0.50	6.50	
Ericsson	RRUS 32 B66A	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-3	2.00		
Ericsson	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	90.00	1	Flat	MP-3	2.00		
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	79.40	0.00	1	Flat	MP-4	0.50	6.50	
Ericsson	RADIO 4415 B30	14.96	13.18	5.04	42.90	90.00	1	Flat	MP-4	2.00		
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	90.00	1	Flat	MP-4	2.00		
CCI Antennas	HPA-65R-BUU-H6	72.00	14.80	9.00	51.00	120.00	1	Flat	MP-5	2.00	5.75	
CCI Antennas	HPA-65R-BUU-H6	72.00	14.80	9.00	51.00	120.00	1	Flat	MP-6	2.00	5.75	
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	60.20	120.00	1	Flat	MP-7	0.50	6.50	
Ericsson	RRUS 32 B66A	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-7	2.00		
Ericsson	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	210.00	1	Flat	MP-7	2.00		
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	79.40	120.00	1	Flat	MP-8	0.50	6.50	
Ericsson	RADIO 4415 B30	14.96	13.18	5.04	42.90	210.00	1	Flat	MP-8	2.00		
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	210.00	1	Flat	MP-8	2.00		
CCI Antennas	HPA-65R-BUU-H6	72.00	14.80	9.00	51.00	240.00	1	Flat	MP-9	2.00	5.75	
CCI Antennas	HPA-65R-BUU-H6	72.00	14.80	9.00	51.00	240.00	1	Flat	MP-10	2.00	5.75	
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	60.20	240.00	1	Flat	MP-11	0.50	6.50	
Ericsson	RRUS 32 B66A	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-11	2.00		
Ericsson	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	330.00	1	Flat	MP-11	2.00		
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	79.40	240.00	1	Flat	MP-12	0.50	6.50	
Ericsson	RADIO 4415 B30	14.96	13.18	5.04	42.90	330.00	1	Flat	MP-12	2.00		
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	330.00	1	Flat	MP-12	2.00		
Raycap	DC6-48-60-0-8C-EV	31.40	10.24	18.28	26.20	0.00	1	Flat	SF2-TH	1.50		
Raycap	DC6-48-60-0-8C-EV	31.40	10.24	18.28	26.20	0.00	1	Flat	M57	4.00		
Raycap	DC6-48-60-18-8C-EV	31.40	10.24	10.24	26.20	0.00	1	Round	M34	1.50		



**TOWER  
ENGINEERING  
PROFESSIONALS**

CCI BU No. 842873

TEP No. 63208.396480

Analysis By: DMLG 4/7/2020

Checked By: GHM 4/7/2020

Member Forces are Calculated in Accordance with TIA-222-H

Member Name	Wind Proj. (in)	Length (in)	Shape	$\theta$ (°)	Perimeter (in)
FFTH1	2.375	156.00	Round	90.00	7.46
FFTH2	2.375	156.00	Round	90.00	7.46
FFTH3	2.375	156.00	Round	90.00	7.46
FFBH1	2.375	156.00	Round	90.00	7.46
FFBH2	2.375	156.00	Round	90.00	7.46
FFBH3	2.375	156.00	Round	90.00	7.46
MP-1	2.375	108.00	Round		7.46
MP-2	2.375	108.00	Round		7.46
MP-3	2.375	108.00	Round		7.46
MP-4	2.375	108.00	Round		7.46
SF2-TH	2.375	51.06	Round	55.77	7.46
SF2-BH	2.375	51.06	Round	55.77	7.46
SF2-V1	0.750	35.00	Round		2.36
SF2-V2	0.750	35.00	Round		2.36
SF2-D1	0.750	55.64	Round		2.36
SF3-TH	2.375	51.06	Round	-55.77	7.46
SF3-BH	2.375	51.06	Round	-55.77	7.46
SF3-V1	0.750	35.00	Round		2.36
SF3-V2	0.750	35.00	Round		2.36
SF3-D1	0.750	55.64	Round		2.36
BC-TH	0.625	12.00	Flat	90.00	10.80
BC-BH	0.625	12.00	Flat	90.00	10.80
SA-1	2.375	39.55	Round	-30.00	7.46
M24	2.375	156.00	Round	30.00	7.46
M25	2.375	156.00	Round	30.00	7.46
M26	2.375	156.00	Round	30.00	7.46
M27	2.375	156.00	Round	30.00	7.46
M28	2.375	156.00	Round	30.00	7.46
M29	2.375	156.00	Round	30.00	7.46
MP-9	2.375	108.00	Round		7.46
MP-10	2.375	108.00	Round		7.46
MP-11	2.375	108.00	Round		7.46
MP-12	2.375	108.00	Round		7.46
M34	2.375	51.06	Round	-4.23	7.46
M35	2.375	51.06	Round	-4.23	7.46
M36	0.750	35.00	Round		2.36
M37	0.750	35.00	Round		2.36
M38	0.750	55.64	Round		2.36

M39	2.375	51.06	Round	64.23	7.46
M40	2.375	51.06	Round	64.23	7.46
M41	0.750	35.00	Round		2.36
M42	0.750	35.00	Round		2.36
M43	0.750	55.64	Round		2.36
M44	0.625	12.00	Flat	30.00	10.80
M45	0.625	12.00	Flat	30.00	10.80
M46	2.375	39.55	Round	90.00	7.46
M47	2.375	156.00	Round	-30.00	7.46
M48	2.375	156.00	Round	-30.00	7.46
M49	2.375	156.00	Round	-30.00	7.46
M50	2.375	156.00	Round	-30.00	7.46
M51	2.375	156.00	Round	-30.00	7.46
M52	2.375	156.00	Round	-30.00	7.46
MP-5	2.375	108.00	Round		7.46
MP-6	2.375	108.00	Round		7.46
MP-7	2.375	108.00	Round		7.46
MP-8	2.375	108.00	Round		7.46
M57	2.375	51.06	Round	-64.23	7.46
M58	2.375	51.06	Round	-64.23	7.46
M59	0.750	35.00	Round		2.36
M60	0.750	35.00	Round		2.36
M61	0.750	55.64	Round		2.36
M62	2.375	51.06	Round	4.23	7.46
M63	2.375	51.06	Round	4.23	7.46
M64	0.750	35.00	Round		2.36
M65	0.750	35.00	Round		2.36
M66	0.750	55.64	Round		2.36
M67	0.625	12.00	Flat	-30.00	10.80
M68	0.625	12.00	Flat	-30.00	10.80
M69	2.375	39.55	Round	30.00	7.46
Mast	4.500	84.00	Round		14.14
M71	4.500	84.00	Round		14.14
M72	4.500	84.00	Round		14.14

**APPENDIX C**  
**SOFTWARE ANALYSIS OUTPUT**





Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**(Global) Model Settings**

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	12
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISACONNECTION CODE	None
Cold Formed Steel Code	None
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	AISC 14th(360-10): ASD
Adjust Stiffness?	Yes(Iterative)

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	Yes
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR SET ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8



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**(Global) Model Settings, Continued**

Seismic Code	ASCE 7-05
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Occupancy Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1

**Hot Rolled Steel Properties**

	Label	E [ksi]	G [ksi]	Nu	Therm (1E-)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53-B-35	29000	11154	.3	.65	.49	35	1.5	60	1.2
7	A500-50	29000	11154	.3	.65	.49	50	1.5	62	1.2

**Cold Formed Steel Properties**

	Label	E [ksi]	G [ksi]	Nu	Therm (1E5 F)	Density[k/ft^3]	Yield[ksi]	Fu[ksi]
1	A570 Gr.33	29500	11346	.3	.65	.49	33	52
2	A607 C1 Gr.55	29500	11346	.3	.65	.49	55	70

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design Rul.	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mast	PIPE 4.0	None	None	A53-B-35	Typical	2.96	6.82	6.82	13.6
2	Face Horizontal	PIPE 2.0X	None	None	A500-50	Typical	1.4	.827	.827	1.65
3	Mount Pipes	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
4	Support Diagonal	SR 3/4	None	None	A572 Gr.50	Typical	.442	.016	.016	.031
5	Support Vertical	SR 3/4	None	None	A572 Gr.50	Typical	.442	.016	.016	.031
6	Support Horizontal	PIPE 2.0X	None	None	A500-50	Typical	1.4	.827	.827	1.65
7	Stabilzier Arm	PIPE 2.0	None	None	A500-50	Typical	1.02	.627	.627	1.25
8	Pivot Plate	Pivot Plate	None	None	A572 Gr.50	Typical	3.008	.098	5.805	.36



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Cold Formed Steel Section Sets**

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iy [in4]	Izz [in4]	J [in4]	
1	CF1A	1.5CU1.25X	Beam	None	A572 Gr.33	Typical	.131	.022	.052	5.4e-5

**Material Takeoff**

Material	Size	Pieces	Length[ft]	Weight[K]
1	Hot Rolled Steel			
2	A500-50	PIPE 2.0	3	9.9
3	A500-50	PIPE 2.0X	30	129.1
4	A53-B-35	PIPE 2.0	12	108
5	A53-B-35	PIPE 4.0	3	21
6	A572 Gr.50	Pivot Plate	6	6
7	A572 Gr.50	SR 3/4	18	62.8
8	Total HR Steel		72	336.8

**Joint Boundary Conditions**

Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	SF1-1	Reaction	Reaction	Reaction	Reaction	Reaction
2	SF1-2	Reaction	Reaction	Reaction	Reaction	Reaction
3	N73	Reaction	Reaction	Reaction	Reaction	Reaction
4	N74	Reaction	Reaction	Reaction	Reaction	Reaction
5	N117	Reaction	Reaction	Reaction	Reaction	Reaction
6	N118	Reaction	Reaction	Reaction	Reaction	Reaction
7	SF2-01	Reaction	Reaction	Reaction	Reaction	Reaction
8	SF2-02	Reaction	Reaction	Reaction	Reaction	Reaction
9	N135	Reaction	Reaction	Reaction	Reaction	Reaction
10	N136	Reaction	Reaction	Reaction	Reaction	Reaction
11	N137	Reaction	Reaction	Reaction	Reaction	Reaction
12	N138	Reaction	Reaction	Reaction	Reaction	Reaction

**Member Primary Data**

Label	I Joint	J Joint	K Joint	Rotate[d...]	Section/Shape	Type	Design List	Material	Design Rul...
1	FFTH1	FF1	SF2-3		Face Horizontal	None	None	A500-50	Typical
2	FFTH2	SF2-3	SF3-3		Face Horizontal	None	None	A500-50	Typical
3	FFTH3	SF3-3	FF2		Face Horizontal	None	None	A500-50	Typical
4	FFBH1	FF3	SF2-4		Face Horizontal	None	None	A500-50	Typical
5	FFBH2	SF2-4	SF3-4		Face Horizontal	None	None	A500-50	Typical
6	FFBH3	SF3-4	FF4		Face Horizontal	None	None	A500-50	Typical
7	MP-1	MP-1A	MP-1B		Mount Pipes	None	None	A53-B-35	Typical
8	MP-2	MP-2A	MP-2B		Mount Pipes	None	None	A53-B-35	Typical
9	MP-3	MP-3A	MP-3B		Mount Pipes	None	None	A53-B-35	Typical
10	MP-4	MP-4A	MP-4B		Mount Pipes	None	None	A53-B-35	Typical
11	SF2-TH	SF2-1	SF2-3		Support Horizontal	None	None	A500-50	Typical
12	SF2-BH	SF2-2	SF2-4		Support Horizontal	None	None	A500-50	Typical
13	SF2-V1	SF2-V1A	SF2-V1B		Support Vertical	None	None	A572 Gr...	Typical
14	SF2-V2	SF2-V2A	SF2-V2B		Support Vertical	None	None	A572 Gr...	Typical
15	SF2-D1	SF2-V1A	SF2-V2B		Support Diagonal	None	None	A572 Gr...	Typical
16	SF3-TH	SF3-1	SF3-3		Support Horizontal	None	None	A500-50	Typical
17	SF3-BH	SF3-2	SF3-4		Support Horizontal	None	None	A500-50	Typical
18	SF3-V1	SF3-V1A	SF3-V1B		Support Vertical	None	None	A572 Gr...	Typical
19	SF3-V2	SF3-V2A	SF3-V2B		Support Vertical	None	None	A572 Gr...	Typical
20	SF3-D1	SF3-V1A	SF3-V2B		Support Diagonal	None	None	A572 Gr...	Typical
21	BC-TH	PP1	PP2	90	Pivot Plate	None	None	A572 Gr...	Typical



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Primary Data (Continued)**

Label	I Joint	J Joint	K Joint	Rotate[d...]	Section/Shape	Type	Design List	Material	Design Rul...
22	BC-BH	PP3	PP4	90	Pivot Plate	None	None	A572 Gr...	Typical
23	SA-1	N43	N44		Stabilizer Arm	None	None	A500-50	Typical
24	M24	N45	N59		Face Horizontal	None	None	A500-50	Typical
25	M25	N59	N67		Face Horizontal	None	None	A500-50	Typical
26	M26	N67	N46		Face Horizontal	None	None	A500-50	Typical
27	M27	N47	N60		Face Horizontal	None	None	A500-50	Typical
28	M28	N60	N68		Face Horizontal	None	None	A500-50	Typical
29	M29	N68	N48		Face Horizontal	None	None	A500-50	Typical
30	MP-9	N49	N53		Mount Pipes	None	None	A53-B-35	Typical
31	MP-10	N50	N54		Mount Pipes	None	None	A53-B-35	Typical
32	MP-11	N51	N55		Mount Pipes	None	None	A53-B-35	Typical
33	MP-12	N52	N56		Mount Pipes	None	None	A53-B-35	Typical
34	M34	N57	N59		Support Horizontal	None	None	A500-50	Typical
35	M35	N58	N60		Support Horizontal	None	None	A500-50	Typical
36	M36	N61	N63		Support Vertical	None	None	A572 Gr...	Typical
37	M37	N62	N64		Support Vertical	None	None	A572 Gr...	Typical
38	M38	N61	N64		Support Diagonal	None	None	A572 Gr...	Typical
39	M39	N65	N67		Support Horizontal	None	None	A500-50	Typical
40	M40	N66	N68		Support Horizontal	None	None	A500-50	Typical
41	M41	N69	N71		Support Vertical	None	None	A572 Gr...	Typical
42	M42	N70	N72		Support Vertical	None	None	A572 Gr...	Typical
43	M43	N69	N72		Support Diagonal	None	None	A572 Gr...	Typical
44	M44	N75	N76	90	Pivot Plate	None	None	A572 Gr...	Typical
45	M45	N77	N78	90	Pivot Plate	None	None	A572 Gr...	Typical
46	M46	N87	N88		Stabilizer Arm	None	None	A500-50	Typical
47	M47	N89	N103		Face Horizontal	None	None	A500-50	Typical
48	M48	N103	N111		Face Horizontal	None	None	A500-50	Typical
49	M49	N111	N90		Face Horizontal	None	None	A500-50	Typical
50	M50	N91	N104		Face Horizontal	None	None	A500-50	Typical
51	M51	N104	N112		Face Horizontal	None	None	A500-50	Typical
52	M52	N112	N92		Face Horizontal	None	None	A500-50	Typical
53	MP-5	N93	N97		Mount Pipes	None	None	A53-B-35	Typical
54	MP-6	N94	N98		Mount Pipes	None	None	A53-B-35	Typical
55	MP-7	N95	N99		Mount Pipes	None	None	A53-B-35	Typical
56	MP-8	N96	N100		Mount Pipes	None	None	A53-B-35	Typical
57	M57	N101	N103		Support Horizontal	None	None	A500-50	Typical
58	M58	N102	N104		Support Horizontal	None	None	A500-50	Typical
59	M59	N105	N107		Support Vertical	None	None	A572 Gr...	Typical
60	M60	N106	N108		Support Vertical	None	None	A572 Gr...	Typical
61	M61	N105	N108		Support Diagonal	None	None	A572 Gr...	Typical
62	M62	N109	N111		Support Horizontal	None	None	A500-50	Typical
63	M63	N110	N112		Support Horizontal	None	None	A500-50	Typical
64	M64	N113	N115		Support Vertical	None	None	A572 Gr...	Typical
65	M65	N114	N116		Support Vertical	None	None	A572 Gr...	Typical
66	M66	N113	N116		Support Diagonal	None	None	A572 Gr...	Typical
67	M67	N119	N120	90	Pivot Plate	None	None	A572 Gr...	Typical
68	M68	N121	N122	90	Pivot Plate	None	None	A572 Gr...	Typical
69	M69	N131	N132		Stabilizer Arm	None	None	A500-50	Typical
70	Mast	SF2-01	SF2-02		Mast	None	None	A53-B-35	Typical
71	M71	N135	N136		Mast	None	None	A53-B-35	Typical
72	M72	N137	N138		Mast	None	None	A53-B-35	Typical



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Advanced Data**

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	FFTH1					Yes	** NA **			None
2	FFTH2					Yes	** NA **			None
3	FFTH3					Yes	** NA **			None
4	FFBH1					Yes	** NA **			None
5	FFBH2					Yes	** NA **			None
6	FFBH3					Yes	** NA **			None
7	MP-1					Yes	** NA **			None
8	MP-2					Yes	** NA **			None
9	MP-3					Yes	** NA **			None
10	MP-4					Yes	** NA **			None
11	SF2-TH	BenPIN	BenPIN			Yes	** NA **			None
12	SF2-BH	BenPIN	BenPIN			Yes	** NA **			None
13	SF2-V1					Yes	** NA **			None
14	SF2-V2					Yes	** NA **			None
15	SF2-D1					Yes	** NA **			None
16	SF3-TH	BenPIN	BenPIN			Yes	** NA **			None
17	SF3-BH	BenPIN	BenPIN			Yes	** NA **			None
18	SF3-V1					Yes	** NA **			None
19	SF3-V2					Yes	** NA **			None
20	SF3-D1					Yes	** NA **			None
21	BC-TH					Yes	** NA **			None
22	BC-BH					Yes	** NA **			None
23	SA-1					Yes	** NA **			None
24	M24					Yes	** NA **			None
25	M25					Yes	** NA **			None
26	M26					Yes	** NA **			None
27	M27					Yes	** NA **			None
28	M28					Yes	** NA **			None
29	M29					Yes	** NA **			None
30	MP-9					Yes	** NA **			None
31	MP-10					Yes	** NA **			None
32	MP-11					Yes	** NA **			None
33	MP-12					Yes	** NA **			None
34	M34	BenPIN	BenPIN			Yes	** NA **			None
35	M35	BenPIN	BenPIN			Yes	** NA **			None
36	M36					Yes	** NA **			None
37	M37					Yes	** NA **			None
38	M38					Yes	** NA **			None
39	M39	BenPIN	BenPIN			Yes	** NA **			None
40	M40	BenPIN	BenPIN			Yes	** NA **			None
41	M41					Yes	** NA **			None
42	M42					Yes	** NA **			None
43	M43					Yes	** NA **			None
44	M44					Yes	** NA **			None
45	M45					Yes	** NA **			None
46	M46					Yes	** NA **			None
47	M47					Yes	** NA **			None
48	M48					Yes	** NA **			None
49	M49					Yes	** NA **			None
50	M50					Yes	** NA **			None
51	M51					Yes	** NA **			None
52	M52					Yes	** NA **			None
53	MP-5					Yes	** NA **			None
54	MP-6					Yes	** NA **			None
55	MP-7					Yes	** NA **			None
56	MP-8					Yes	** NA **			None
57	M57	BenPIN	BenPIN			Yes	** NA **			None



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**Member Advanced Data (Continued)**

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
58	M58	BenPIN	BenPIN			Yes	** NA **			None
59	M59					Yes	** NA **			None
60	M60					Yes	** NA **			None
61	M61					Yes	** NA **			None
62	M62	BenPIN	BenPIN			Yes	** NA **			None
63	M63	BenPIN	BenPIN			Yes	** NA **			None
64	M64					Yes	** NA **			None
65	M65					Yes	** NA **			None
66	M66					Yes	** NA **			None
67	M67					Yes	** NA **			None
68	M68					Yes	** NA **			None
69	M69					Yes	** NA **			None
70	Mast					Yes	** NA **			None
71	M71					Yes	** NA **			None
72	M72					Yes	** NA **			None

**Hot Rolled Steel Design Parameters**

Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
1	FFTH1	Face Horizontal	2.5					2.1	2.1		Lateral
2	FFTH2	Face Horizontal	8					1	1		Lateral
3	FFTH3	Face Horizontal	2.5					2.1	2.1		Lateral
4	FFBH1	Face Horizontal	2.5					2.1	2.1		Lateral
5	FFBH2	Face Horizontal	8					1	1		Lateral
6	FFBH3	Face Horizontal	2.5					2.1	2.1		Lateral
7	MP-1	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
8	MP-2	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
9	MP-3	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
10	MP-4	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
11	SF2-TH	Support Horizontal	4.255		3.604			1	1		Lateral
12	SF2-BH	Support Horizontal	4.255		3.604			1	1		Lateral
13	SF2-V1	Support Vertical	2.917					.65	.65		Lateral
14	SF2-V2	Support Vertical	2.917					.65	.65		Lateral
15	SF2-D1	Support Diagonal	4.636					.65	.65		Lateral
16	SF3-TH	Support Horizontal	4.255		3.604			1	1		Lateral
17	SF3-BH	Support Horizontal	4.255		3.604			1	1		Lateral
18	SF3-V1	Support Vertical	2.917					.65	.65		Lateral
19	SF3-V2	Support Vertical	2.917					.65	.65		Lateral
20	SF3-D1	Support Diagonal	4.636					.65	.65		Lateral
21	BC-TH	Pivot Plate	1					1	1		Lateral
22	BC-BH	Pivot Plate	1					1	1		Lateral
23	SA-1	Stabilizer Arm	3.296					1	1		Lateral
24	M24	Face Horizontal	2.5					2.1	2.1		Lateral
25	M25	Face Horizontal	8					1	1		Lateral
26	M26	Face Horizontal	2.5					2.1	2.1		Lateral
27	M27	Face Horizontal	2.5					2.1	2.1		Lateral
28	M28	Face Horizontal	8					1	1		Lateral
29	M29	Face Horizontal	2.5					2.1	2.1		Lateral
30	MP-9	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
31	MP-10	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
32	MP-11	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
33	MP-12	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
34	M34	Support Horizontal	4.255		3.604			1	1		Lateral
35	M35	Support Horizontal	4.255		3.604			1	1		Lateral
36	M36	Support Vertical	2.917					.65	.65		Lateral
37	M37	Support Vertical	2.917					.65	.65		Lateral



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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

Label	Shape	Length(ft)	Lbvy(ft)	Lbz(ft)	Lcomp top(ft)	Lcomp bot(ft)	L-torg...	Kv	Kzz	Cb	Functi...
38	M38	Support Diagonal	4.636					.65	.65		Lateral
39	M39	Support Horizontal	4.255		3.604			1	1		Lateral
40	M40	Support Horizontal	4.255		3.604			1	1		Lateral
41	M41	Support Vertical	2.917					.65	.65		Lateral
42	M42	Support Vertical	2.917					.65	.65		Lateral
43	M43	Support Diagonal	4.636					.65	.65		Lateral
44	M44	Pivot Plate	1					1	1		Lateral
45	M45	Pivot Plate	1					1	1		Lateral
46	M46	Stabilzier Arm	3.296					1	1		Lateral
47	M47	Face Horizontal	2.5					2.1	2.1		Lateral
48	M48	Face Horizontal	8					1	1		Lateral
49	M49	Face Horizontal	2.5					2.1	2.1		Lateral
50	M50	Face Horizontal	2.5					2.1	2.1		Lateral
51	M51	Face Horizontal	8					1	1		Lateral
52	M52	Face Horizontal	2.5					2.1	2.1		Lateral
53	MP-5	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
54	MP-6	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
55	MP-7	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
56	MP-8	Mount Pipes	9	Segment	Segment			2.1	2.1		Lateral
57	M57	Support Horizontal	4.255		3.604			1	1		Lateral
58	M58	Support Horizontal	4.255		3.604			1	1		Lateral
59	M59	Support Vertical	2.917					.65	.65		Lateral
60	M60	Support Vertical	2.917					.65	.65		Lateral
61	M61	Support Diagonal	4.636					.65	.65		Lateral
62	M62	Support Horizontal	4.255		3.604			1	1		Lateral
63	M63	Support Horizontal	4.255		3.604			1	1		Lateral
64	M64	Support Vertical	2.917					.65	.65		Lateral
65	M65	Support Vertical	2.917					.65	.65		Lateral
66	M66	Support Diagonal	4.636					.65	.65		Lateral
67	M67	Pivot Plate	1					1	1		Lateral
68	M68	Pivot Plate	1					1	1		Lateral
69	M69	Stabilzier Arm	3.296					1	1		Lateral
70	Mast	Mast	7	Segment	Segment			2.1	2.1		Lateral
71	M71	Mast	7	Segment	Segment			2.1	2.1		Lateral
72	M72	Mast	7	Segment	Segment			2.1	2.1		Lateral

**Cold Formed Steel Design Parameters**

Label	Shape	Length	Lbvy(ft)	Lbz(ft)	Lcomp L...	Lcomp b...	Kyy	Kzz	cm-yy	cm-zz	Cb	R	y sw...	z sw...
No Data to Print ...														

**Basic Load Cases**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Dead		-1			39		
2	0 Wind - No Ice					39	72	
3	30 Wind - No Ice					78	144	
4	45 Wind - No Ice					78	144	
5	60 Wind - No Ice					78	144	
6	90 Wind - No Ice					39	72	
7	120 Wind - No Ice					78	144	
8	135 Wind - No Ice					78	144	
9	150 Wind - No Ice					78	144	
10	180 Wind - No Ice					39	72	
11	210 Wind - No Ice					78	144	
12	225 Wind - No Ice					78	144	



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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**Basic Load Cases (Continued)**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
13	240 Wind - No Ice					78	144	
14	270 Wind - No Ice					39	72	
15	300 Wind - No Ice					78	144	
16	315 Wind - No Ice					78	144	
17	330 Wind - No Ice					78	144	
18	Ice Weight					39	72	
19	0 Wind - Ice					39	72	
20	30 Wind - Ice					78	144	
21	45 Wind - Ice					78	144	
22	60 Wind - Ice					78	144	
23	90 Wind - Ice					39	72	
24	120 Wind - Ice					78	144	
25	135 Wind - Ice					78	144	
26	150 Wind - Ice					78	144	
27	180 Wind - Ice					39	72	
28	210 Wind - Ice					78	144	
29	225 Wind - Ice					78	144	
30	240 Wind - Ice					78	144	
31	270 Wind - Ice					39	72	
32	300 Wind - Ice					78	144	
33	315 Wind - Ice					78	144	
34	330 Wind - Ice					78	144	
35	Lm				1			
36	Lv				1			
37	Seismic Load X	ELX	-1			39		
38	Seismic Load Z	ELZ		-1		39		

**Load Combinations**

Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
1	1.4D	Yes	Y	1	1.4								
2	0.9D+1.0 0-Wind	Yes	Y	1	.9	2	1						
3	0.9D+1.0 30-Wind	Yes	Y	1	.9	3	1						
4	0.9D+1.0 45-Wind	Yes	Y	1	.9	4	1						
5	0.9D+1.0 60-Wind	Yes	Y	1	.9	5	1						
6	0.9D+1.0 90-Wind	Yes	Y	1	.9	6	1						
7	0.9D+1.0 120-Wind	Yes	Y	1	.9	7	1						
8	0.9D+1.0 135-Wind	Yes	Y	1	.9	8	1						
9	0.9D+1.0 150-Wind	Yes	Y	1	.9	9	1						
10	0.9D+1.0 180-Wind	Yes	Y	1	.9	10	1						
11	0.9D+1.0 210-Wind	Yes	Y	1	.9	11	1						
12	0.9D+1.0 225-Wind	Yes	Y	1	.9	12	1						
13	0.9D+1.0 240-Wind	Yes	Y	1	.9	13	1						
14	0.9D+1.0 270-Wind	Yes	Y	1	.9	14	1						
15	0.9D+1.0 300-Wind	Yes	Y	1	.9	15	1						
16	0.9D+1.0 315-Wind	Yes	Y	1	.9	16	1						
17	0.9D+1.0 330-Wind	Yes	Y	1	.9	17	1						
18	1.2D+1.0 0-Wind	Yes	Y	1	1.2	2	1						
19	1.2D+1.0 30-Wind	Yes	Y	1	1.2	3	1						
20	1.2D+1.0 45-Wind	Yes	Y	1	1.2	4	1						
21	1.2D+1.0 60-Wind	Yes	Y	1	1.2	5	1						
22	1.2D+1.0 90-Wind	Yes	Y	1	1.2	6	1						
23	1.2D+1.0 120-Wind	Yes	Y	1	1.2	7	1						
24	1.2D+1.0 135-Wind	Yes	Y	1	1.2	8	1						
25	1.2D+1.0 150-Wind	Yes	Y	1	1.2	9	1						
26	1.2D+1.0 180-Wind	Yes	Y	1	1.2	10	1						



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**Load Combinations (Continued)**

Description	So.	P	S	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac
27	1.2D+1.0 210-Wind	Yes	Y	1	1.2	11	1						
28	1.2D+1.0 225-Wind	Yes	Y	1	1.2	12	1						
29	1.2D+1.0 240-Wind	Yes	Y	1	1.2	13	1						
30	1.2D+1.0 270-Wind	Yes	Y	1	1.2	14	1						
31	1.2D+1.0 300-Wind	Yes	Y	1	1.2	15	1						
32	1.2D+1.0 315-Wind	Yes	Y	1	1.2	16	1						
33	1.2D+1.0 330-Wind	Yes	Y	1	1.2	17	1						
34	1.2D+1.0Di+1.0 0-...	Yes	Y	1	1.2	18	1	19	1				
35	1.2D+1.0Di+1.0 30-...	Yes	Y	1	1.2	18	1	20	1				
36	1.2D+1.0Di+1.0 45-...	Yes	Y	1	1.2	18	1	21	1				
37	1.2D+1.0Di+1.0 60-...	Yes	Y	1	1.2	18	1	22	1				
38	1.2D+1.0Di+1.0 90-...	Yes	Y	1	1.2	18	1	23	1				
39	1.2D+1.0Di+1.0 120-...	Yes	Y	1	1.2	18	1	24	1				
40	1.2D+1.0Di+1.0 135-...	Yes	Y	1	1.2	18	1	25	1				
41	1.2D+1.0Di+1.0 150-...	Yes	Y	1	1.2	18	1	26	1				
42	1.2D+1.0Di+1.0 180-...	Yes	Y	1	1.2	18	1	27	1				
43	1.2D+1.0Di+1.0 210-...	Yes	Y	1	1.2	18	1	28	1				
44	1.2D+1.0Di+1.0 225-...	Yes	Y	1	1.2	18	1	29	1				
45	1.2D+1.0Di+1.0 240-...	Yes	Y	1	1.2	18	1	30	1				
46	1.2D+1.0Di+1.0 270-...	Yes	Y	1	1.2	18	1	31	1				
47	1.2D+1.0Di+1.0 300-...	Yes	Y	1	1.2	18	1	32	1				
48	1.2D+1.0Di+1.0 315-...	Yes	Y	1	1.2	18	1	33	1				
49	1.2D+1.0Di+1.0 330-...	Yes	Y	1	1.2	18	1	34	1				
50	1.2D+1.5Lv	Yes	Y	36	1.5	1	1.2						
51	1.2D+1.5Lm+1.0 0-...	Yes	Y	1	1.2	2	.058	35	1.5				
52	1.2D+1.5Lm+1.0 30-...	Yes	Y	1	1.2	3	.058	35	1.5				
53	1.2D+1.5Lm+1.0 45-...	Yes	Y	1	1.2	4	.058	35	1.5				
54	1.2D+1.5Lm+1.0 60-...	Yes	Y	1	1.2	5	.058	35	1.5				
55	1.2D+1.5Lm+1.0 90-...	Yes	Y	1	1.2	6	.058	35	1.5				
56	1.2D+1.5Lm+1.0 12-...	Yes	Y	1	1.2	7	.058	35	1.5				
57	1.2D+1.5Lm+1.0 13-...	Yes	Y	1	1.2	8	.058	35	1.5				
58	1.2D+1.5Lm+1.0 15-...	Yes	Y	1	1.2	9	.058	35	1.5				
59	1.2D+1.5Lm+1.0 18-...	Yes	Y	1	1.2	10	.058	35	1.5				
60	1.2D+1.5Lm+1.0 21-...	Yes	Y	1	1.2	11	.058	35	1.5				
61	1.2D+1.5Lm+1.0 22-...	Yes	Y	1	1.2	12	.058	35	1.5				
62	1.2D+1.5Lm+1.0 24-...	Yes	Y	1	1.2	13	.058	35	1.5				
63	1.2D+1.5Lm+1.0 27-...	Yes	Y	1	1.2	14	.058	35	1.5				
64	1.2D+1.5Lm+1.0 30-...	Yes	Y	1	1.2	15	.058	35	1.5				
65	1.2D+1.5Lm+1.0 31-...	Yes	Y	1	1.2	16	.058	35	1.5				
66	1.2D+1.5Lm+1.0 33-...	Yes	Y	1	1.2	17	.058	35	1.5				
67	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	.5	0					
68	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	.433	ELZ	.25				
69	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	.354	ELZ	.354				
70	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	.25	ELZ	.433				
71	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	0		ELZ	.5				
72	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	-.25	ELZ	.433				
73	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	-.354	ELZ	.354				
74	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	-.433	ELZ	.25				
75	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	-.5	0					
76	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	-.433	ELZ	-.25				
77	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	-.354	ELZ	-.354				
78	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	-.25	ELZ	-.433				
79	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	0		ELZ	-.5				
80	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	.25	ELZ	-.433				
81	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	.354	ELZ	-.354				
82	(1.2+0.2Sds)D+1.0 ...	Yes	Y	1	1.4	ELX	.433	ELZ	-.25				
83	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	.5	0					



Company : Tower Engineering Professionals, Inc.  
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**Load Combinations (Continued)**

Description	So.	P	S	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac	BLC Fac
84	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	.433	ELZ	.25				
85	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	.354	ELZ	.354				
86	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	.25	ELZ	.433				
87	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	0		ELZ	.5				
88	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	-.25	ELZ	.433				
89	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	-.354	ELZ	.354				
90	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	-.433	ELZ	.25				
91	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	-.5	0					
92	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	+.433	ELZ	-.25				
93	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	+.354	ELZ	-.354				
94	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	+.25	ELZ	-.433				
95	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	0		ELZ	-.5				
96	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	.25	ELZ	-.433				
97	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	.354	ELZ	-.354				
98	(0.9-0.2Sds)*DL+1....	Yes	Y	1	.7	ELX	.433	ELZ	-.25				

**Joint Loads and Enforced Displacements (BLC 35 : Lm)**

Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k's^2/ft...)]	
1	X8	L	Y	-.5

**Joint Loads and Enforced Displacements (BLC 36 : Lv)**

Joint Label	L,D,M	Direction	Magnitude[(k.k-ft), (in.rad), (k's^2/ft...)]	
1	FF4	L	Y	-.25

**Member Point Loads (BLC 1 : Dead)**

Member Label	Direction	Magnitude[(k.k-ft)]	Location[ft.%]	
1	MP-1	Y	-.025	2
2	MP-2	Y	-.025	2
3	MP-3	Y	-.03	.5
4	MP-3	Y	-.053	2
5	MP-3	Y	-.059	2
6	MP-4	Y	-.04	.5
7	MP-4	Y	-.043	2
8	MP-4	Y	-.071	2
9	MP-5	Y	-.025	2
10	MP-6	Y	-.025	2
11	MP-7	Y	-.03	.5
12	MP-7	Y	-.053	2
13	MP-7	Y	-.059	2
14	MP-8	Y	-.04	.5
15	MP-8	Y	-.043	2
16	MP-8	Y	-.071	2
17	MP-9	Y	-.025	2
18	MP-10	Y	-.025	2
19	MP-11	Y	-.03	.5
20	MP-11	Y	-.053	2
21	MP-11	Y	-.059	2
22	MP-12	Y	-.04	.5
23	MP-12	Y	-.043	2
24	MP-12	Y	-.071	2
25	SF2-TH	Y	-.026	1.5
26	M57	Y	-.026	4
27	M34	Y	-.026	1.5



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**Member Point Loads (BLC 1 : Dead) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
28	MP-1	Y	-0.25	5.75
29	MP-2	Y	-0.25	5.75
30	MP-3	Y	-0.03	6.5
31	MP-4	Y	-0.04	6.5
32	MP-5	Y	-0.25	5.75
33	MP-6	Y	-0.25	5.75
34	MP-7	Y	-0.03	6.5
35	MP-8	Y	-0.04	6.5
36	MP-9	Y	-0.25	5.75
37	MP-10	Y	-0.25	5.75
38	MP-11	Y	-0.03	6.5
39	MP-12	Y	-0.04	6.5

**Member Point Loads (BLC 2 : 0 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-1.66	2
2	MP-2	X	-1.66	2
3	MP-3	X	-0.22	.5
4	MP-3	X	-0.06	2
5	MP-3	X	-0.045	2
6	MP-4	X	-0.228	.5
7	MP-4	X	-0.023	2
8	MP-4	X	-0.051	2
9	MP-5	X	-0.104	2
10	MP-6	X	-0.104	2
11	MP-7	X	-0.116	.5
12	MP-7	X	-0.089	2
13	MP-7	X	-0.066	2
14	MP-8	X	-0.133	.5
15	MP-8	X	-0.05	2
16	MP-8	X	-0.066	2
17	MP-9	X	-0.104	2
18	MP-10	X	-0.104	2
19	MP-11	X	-0.116	.5
20	MP-11	X	-0.089	2
21	MP-11	X	-0.066	2
22	MP-12	X	-0.133	.5
23	MP-12	X	-0.05	2
24	MP-12	X	-0.066	2
25	SF2-TH	X	-0.098	1.5
26	M57	X	-0.098	4
27	M34	X	-0.041	1.5
28	MP-1	X	-1.66	5.75
29	MP-2	X	-1.66	5.75
30	MP-3	X	-0.22	6.5
31	MP-4	X	-0.228	6.5
32	MP-5	X	-0.104	5.75
33	MP-6	X	-0.104	5.75
34	MP-7	X	-0.116	6.5
35	MP-8	X	-0.133	6.5
36	MP-9	X	-0.104	5.75
37	MP-10	X	-0.104	5.75
38	MP-11	X	-0.116	6.5
39	MP-12	X	-0.133	6.5



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**Member Point Loads (BLC 3 : 30 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.126	2
2	MP-2	X	-0.126	2
3	MP-3	X	-0.16	.5
4	MP-3	X	-0.06	2
5	MP-3	X	-0.045	2
6	MP-4	X	-0.17	.5
7	MP-4	X	-0.028	2
8	MP-4	X	-0.048	2
9	MP-5	X	-0.072	2
10	MP-6	X	-0.072	2
11	MP-7	X	-0.071	.5
12	MP-7	X	-0.085	2
13	MP-7	X	-0.063	2
14	MP-8	X	-0.087	.5
15	MP-8	X	-0.051	2
16	MP-8	X	-0.061	2
17	MP-9	X	-0.126	2
18	MP-10	X	-0.126	2
19	MP-11	X	-0.16	.5
20	MP-11	X	-0.06	2
21	MP-11	X	-0.045	2
22	MP-12	X	-0.17	.5
23	MP-12	X	-0.028	2
24	MP-12	X	-0.048	2
25	SF2-TH	X	-0.101	1.5
26	M57	X	-0.101	4
27	M34	X	-0.036	1.5
28	MP-1	X	-1.26	5.75
29	MP-2	X	-1.26	5.75
30	MP-3	X	-0.16	6.5
31	MP-4	X	-0.17	6.5
32	MP-5	X	-0.072	5.75
33	MP-6	X	-0.072	5.75
34	MP-7	X	-0.071	6.5
35	MP-8	X	-0.087	6.5
36	MP-9	X	-0.126	5.75
37	MP-10	X	-0.126	5.75
38	MP-11	X	-0.16	6.5
39	MP-12	X	-0.17	6.5
40	MP-1	Z	-0.073	2
41	MP-2	Z	-0.073	2
42	MP-3	Z	-0.093	.5
43	MP-3	Z	-0.035	2
44	MP-3	Z	-0.026	2
45	MP-4	Z	-0.098	.5
46	MP-4	Z	-0.016	2
47	MP-4	Z	-0.028	2
48	MP-5	Z	-0.042	2
49	MP-6	Z	-0.042	2
50	MP-7	Z	-0.041	.5
51	MP-7	Z	-0.049	2
52	MP-7	Z	-0.036	2
53	MP-8	Z	-0.05	.5
54	MP-8	Z	-0.03	2
55	MP-8	Z	-0.035	2
56	MP-9	Z	-0.073	2
57	MP-10	Z	-0.073	2



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**Member Point Loads (BLC 3 : 30 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-11	Z	-0.93	.5
59	MP-11	Z	-0.35	2
60	MP-11	Z	-0.26	2
61	MP-12	Z	-0.98	.5
62	MP-12	Z	-0.16	2
63	MP-12	Z	-0.28	2
64	SF2-TH	Z	-0.58	1.5
65	M57	Z	-0.58	4
66	M34	Z	-0.21	1.5
67	MP-1	Z	-0.73	5.75
68	MP-2	Z	-0.73	5.75
69	MP-3	Z	-0.93	6.5
70	MP-4	Z	-0.98	6.5
71	MP-5	Z	-0.42	5.75
72	MP-6	Z	-0.42	5.75
73	MP-7	Z	-0.41	6.5
74	MP-8	Z	-0.05	6.5
75	MP-9	Z	-0.73	5.75
76	MP-10	Z	-0.73	5.75
77	MP-11	Z	-0.93	6.5
78	MP-12	Z	-0.98	6.5

**Member Point Loads (BLC 4 : 45 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.88	2
2	MP-2	X	-0.88	2
3	MP-3	X	-1.06	.5
4	MP-3	X	-0.56	2
5	MP-3	X	-0.42	2
6	MP-4	X	-1.16	.5
7	MP-4	X	-0.29	2
8	MP-4	X	-0.43	2
9	MP-5	X	-0.63	2
10	MP-6	X	-0.63	2
11	MP-7	X	-0.64	.5
12	MP-7	X	-0.68	2
13	MP-7	X	-0.05	2
14	MP-8	X	-0.77	.5
15	MP-8	X	-0.04	2
16	MP-8	X	-0.49	2
17	MP-9	X	-1.13	2
18	MP-10	X	-1.13	2
19	MP-11	X	-1.49	.5
20	MP-11	X	-0.44	2
21	MP-11	X	-0.33	2
22	MP-12	X	-1.55	.5
23	MP-12	X	-0.18	2
24	MP-12	X	-0.37	2
25	SF2-TH	X	-0.96	1.5
26	M57	X	-0.96	4
27	M34	X	-0.29	1.5
28	MP-1	X	-0.88	5.75
29	MP-2	X	-0.88	5.75
30	MP-3	X	-1.06	6.5
31	MP-4	X	-1.16	6.5
32	MP-5	X	-0.63	5.75



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**Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
33	MP-6	X	-0.63	5.75
34	MP-7	X	-0.64	6.5
35	MP-8	X	-0.77	6.5
36	MP-9	X	-1.13	5.75
37	MP-10	X	-1.13	5.75
38	MP-11	X	-1.49	6.5
39	MP-12	X	-1.55	6.5
40	MP-1	Z	-0.88	2
41	MP-2	Z	-0.88	2
42	MP-3	Z	-1.06	.5
43	MP-3	Z	-0.56	2
44	MP-3	Z	-0.42	2
45	MP-4	Z	-1.16	.5
46	MP-4	Z	-0.29	2
47	MP-4	Z	-0.43	2
48	MP-5	Z	-0.63	2
49	MP-6	Z	-0.63	2
50	MP-7	Z	-0.64	.5
51	MP-7	Z	-0.68	2
52	MP-7	Z	-0.05	2
53	MP-8	Z	-0.77	.5
54	MP-8	Z	-0.04	2
55	MP-8	Z	-0.49	2
56	MP-9	Z	-1.13	2
57	MP-10	Z	-1.13	2
58	MP-11	Z	-1.49	.5
59	MP-11	Z	-0.44	2
60	MP-11	Z	-0.33	2
61	MP-12	Z	-1.55	.5
62	MP-12	Z	-0.18	2
63	MP-12	Z	-0.37	2
64	SF2-TH	Z	-0.96	1.5
65	M57	Z	-0.96	4
66	M34	Z	-0.29	1.5
67	MP-1	Z	-0.88	5.75
68	MP-2	Z	-0.88	5.75
69	MP-3	Z	-1.06	6.5
70	MP-4	Z	-1.16	6.5
71	MP-5	Z	-0.63	5.75
72	MP-6	Z	-0.63	5.75
73	MP-7	Z	-0.64	6.5
74	MP-8	Z	-0.77	6.5
75	MP-9	Z	-1.13	5.75
76	MP-10	Z	-1.13	5.75
77	MP-11	Z	-1.49	6.5
78	MP-12	Z	-1.55	6.5

**Member Point Loads (BLC 5 : 60 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.52	2
2	MP-2	X	-0.52	2
3	MP-3	X	-0.58	.5
4	MP-3	X	-0.44	2
5	MP-3	X	-0.33	2
6	MP-4	X	-0.66	.5
7	MP-4	X	-0.25	2



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**Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
8	MP-4	X	-0.33	2
9	MP-5	X	-0.52	2
10	MP-6	X	-0.52	2
11	MP-7	X	-0.58	.5
12	MP-7	X	-0.44	2
13	MP-7	X	-0.33	2
14	MP-8	X	-0.66	.5
15	MP-8	X	-0.25	2
16	MP-8	X	-0.33	2
17	MP-9	X	-0.83	2
18	MP-10	X	-0.83	2
19	MP-11	X	-1.1	.5
20	MP-11	X	-0.3	2
21	MP-11	X	-0.22	2
22	MP-12	X	-1.14	.5
23	MP-12	X	-0.11	2
24	MP-12	X	-0.25	2
25	SF2-TH	X	-0.77	1.5
26	M57	X	-0.77	4
27	M34	X	-0.21	1.5
28	MP-1	X	-0.52	5.75
29	MP-2	X	-0.52	5.75
30	MP-3	X	-0.58	6.5
31	MP-4	X	-0.66	6.5
32	MP-5	X	-0.52	5.75
33	MP-6	X	-0.52	5.75
34	MP-7	X	-0.58	6.5
35	MP-8	X	-0.66	6.5
36	MP-9	X	-0.83	5.75
37	MP-10	X	-0.83	5.75
38	MP-11	X	-1.1	6.5
39	MP-12	X	-1.14	6.5
40	MP-1	Z	-0.9	2
41	MP-2	Z	-0.9	2
42	MP-3	Z	-1.01	.5
43	MP-3	Z	-0.77	2
44	MP-3	Z	-0.57	2
45	MP-4	Z	-1.15	.5
46	MP-4	Z	-0.43	2
47	MP-4	Z	-0.57	2
48	MP-5	Z	-0.9	2
49	MP-6	Z	-0.9	2
50	MP-7	Z	-1.01	.5
51	MP-7	Z	-0.77	2
52	MP-7	Z	-0.57	2
53	MP-8	Z	-1.15	.5
54	MP-8	Z	-0.43	2
55	MP-8	Z	-0.57	2
56	MP-9	Z	-1.44	2
57	MP-10	Z	-1.44	2
58	MP-11	Z	-1.9	.5
59	MP-11	Z	-0.52	2
60	MP-11	Z	-0.39	2
61	MP-12	Z	-1.98	.5
62	MP-12	Z	-0.2	2
63	MP-12	Z	-0.44	2
64	SF2-TH	Z	-1.33	1.5



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**Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
65	M57	Z	-1.33	4
66	M34	Z	-0.36	1.5
67	MP-1	Z	-0.9	5.75
68	MP-2	Z	-0.9	5.75
69	MP-3	Z	-1.01	6.5
70	MP-4	Z	-1.15	6.5
71	MP-5	Z	-0.9	5.75
72	MP-6	Z	-0.9	5.75
73	MP-7	Z	-1.01	6.5
74	MP-8	Z	-1.15	6.5
75	MP-9	Z	-1.44	5.75
76	MP-10	Z	-1.44	5.75
77	MP-11	Z	-1.9	6.5
78	MP-12	Z	-1.98	6.5

**Member Point Loads (BLC 6 : 90 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.84	2
2	MP-2	Z	-0.84	2
3	MP-3	Z	-0.82	.5
4	MP-3	Z	-0.98	2
5	MP-3	Z	-0.73	2
6	MP-4	Z	-1.01	.5
7	MP-4	Z	-0.59	2
8	MP-4	Z	-0.71	2
9	MP-5	Z	-1.45	2
10	MP-6	Z	-1.45	2
11	MP-7	Z	-1.85	.5
12	MP-7	Z	-0.7	2
13	MP-7	Z	-0.52	2
14	MP-8	Z	-1.97	.5
15	MP-8	Z	-0.32	2
16	MP-8	Z	-0.56	2
17	MP-9	Z	-1.45	2
18	MP-10	Z	-1.45	2
19	MP-11	Z	-1.85	.5
20	MP-11	Z	-0.7	2
21	MP-11	Z	-0.52	2
22	MP-12	Z	-1.97	.5
23	MP-12	Z	-0.32	2
24	MP-12	Z	-0.56	2
25	SF2-TH	Z	-1.72	1.5
26	M57	Z	-1.72	4
27	M34	Z	-0.41	1.5
28	MP-1	Z	-0.84	5.75
29	MP-2	Z	-0.84	5.75
30	MP-3	Z	-0.82	6.5
31	MP-4	Z	-1.01	6.5
32	MP-5	Z	-1.45	5.75
33	MP-6	Z	-1.45	5.75
34	MP-7	Z	-1.85	6.5
35	MP-8	Z	-1.97	6.5
36	MP-9	Z	-1.45	5.75
37	MP-10	Z	-1.45	5.75
38	MP-11	Z	-1.85	6.5
39	MP-12	Z	-1.97	6.5





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**Member Point Loads (BLC 7 : 120 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.052	2
2	MP-2	X	.052	2
3	MP-3	X	.058	.5
4	MP-3	X	.044	2
5	MP-3	X	.033	2
6	MP-4	X	.066	.5
7	MP-4	X	.025	2
8	MP-4	X	.033	2
9	MP-5	X	.083	2
10	MP-6	X	.083	2
11	MP-7	X	.11	.5
12	MP-7	X	.03	2
13	MP-7	X	.022	2
14	MP-8	X	.114	.5
15	MP-8	X	.011	2
16	MP-8	X	.025	2
17	MP-9	X	.052	2
18	MP-10	X	.052	2
19	MP-11	X	.058	.5
20	MP-11	X	.044	2
21	MP-11	X	.033	2
22	MP-12	X	.066	.5
23	MP-12	X	.025	2
24	MP-12	X	.033	2
25	SF2-TH	X	.077	1.5
26	M57	X	.077	4
27	M34	X	.021	1.5
28	MP-1	X	.052	5.75
29	MP-2	X	.052	5.75
30	MP-3	X	.058	6.5
31	MP-4	X	.066	6.5
32	MP-5	X	.083	5.75
33	MP-6	X	.083	5.75
34	MP-7	X	.11	6.5
35	MP-8	X	.114	6.5
36	MP-9	X	.052	5.75
37	MP-10	X	.052	5.75
38	MP-11	X	.058	6.5
39	MP-12	X	.066	6.5
40	MP-1	Z	-.09	2
41	MP-2	Z	-.09	2
42	MP-3	Z	-.101	.5
43	MP-3	Z	-.077	2
44	MP-3	Z	-.057	2
45	MP-4	Z	-.115	.5
46	MP-4	Z	-.043	2
47	MP-4	Z	-.057	2
48	MP-5	Z	-.144	2
49	MP-6	Z	-.144	2
50	MP-7	Z	-.19	.5
51	MP-7	Z	-.052	2
52	MP-7	Z	-.039	2
53	MP-8	Z	-.198	.5
54	MP-8	Z	-.02	2
55	MP-8	Z	-.044	2
56	MP-9	Z	-.09	2
57	MP-10	Z	-.09	2



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**Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-11	Z	-.101	.5
59	MP-11	Z	-.077	2
60	MP-11	Z	-.057	2
61	MP-12	Z	-.115	.5
62	MP-12	Z	-.043	2
63	MP-12	Z	-.057	2
64	SF2-TH	Z	-.133	1.5
65	M57	Z	-.133	4
66	M34	Z	-.036	1.5
67	MP-1	Z	-.09	5.75
68	MP-2	Z	-.09	5.75
69	MP-3	Z	-.101	6.5
70	MP-4	Z	-.115	6.5
71	MP-5	Z	-.144	5.75
72	MP-6	Z	-.144	5.75
73	MP-7	Z	-.19	6.5
74	MP-8	Z	-.198	6.5
75	MP-9	Z	-.09	5.75
76	MP-10	Z	-.09	5.75
77	MP-11	Z	-.101	6.5
78	MP-12	Z	-.115	6.5

**Member Point Loads (BLC 8 : 135 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.088	2
2	MP-2	X	.088	2
3	MP-3	X	.106	.5
4	MP-3	X	.056	2
5	MP-3	X	.042	2
6	MP-4	X	.116	.5
7	MP-4	X	.029	2
8	MP-4	X	.043	2
9	MP-5	X	.113	2
10	MP-6	X	.113	2
11	MP-7	X	.149	.5
12	MP-7	X	.044	2
13	MP-7	X	.033	2
14	MP-8	X	.155	.5
15	MP-8	X	.018	2
16	MP-8	X	.037	2
17	MP-9	X	.063	2
18	MP-10	X	.063	2
19	MP-11	X	.064	.5
20	MP-11	X	.068	2
21	MP-11	X	.05	2
22	MP-12	X	.077	.5
23	MP-12	X	.04	2
24	MP-12	X	.049	2
25	SF2-TH	X	.096	1.5
26	M57	X	.096	4
27	M34	X	.029	1.5
28	MP-1	X	.088	5.75
29	MP-2	X	.088	5.75
30	MP-3	X	.106	6.5
31	MP-4	X	.116	6.5
32	MP-5	X	.113	5.75



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**Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
33	MP-6	X	.113	5.75
34	MP-7	X	.149	6.5
35	MP-8	X	.155	6.5
36	MP-9	X	.063	5.75
37	MP-10	X	.063	5.75
38	MP-11	X	.064	6.5
39	MP-12	X	.077	6.5
40	MP-1	Z	-.088	2
41	MP-2	Z	-.088	2
42	MP-3	Z	-.106	.5
43	MP-3	Z	-.056	2
44	MP-3	Z	-.042	2
45	MP-4	Z	-.116	.5
46	MP-4	Z	-.029	2
47	MP-4	Z	-.043	2
48	MP-5	Z	-.113	2
49	MP-6	Z	-.113	2
50	MP-7	Z	-.149	.5
51	MP-7	Z	-.044	2
52	MP-7	Z	-.033	2
53	MP-8	Z	-.155	.5
54	MP-8	Z	-.018	2
55	MP-8	Z	-.037	2
56	MP-9	Z	-.063	2
57	MP-10	Z	-.063	2
58	MP-11	Z	-.064	.5
59	MP-11	Z	-.068	2
60	MP-11	Z	-.05	2
61	MP-12	Z	-.077	.5
62	MP-12	Z	-.04	2
63	MP-12	Z	-.049	2
64	SF2-TH	Z	-.096	1.5
65	M57	Z	-.096	4
66	M34	Z	-.029	1.5
67	MP-1	Z	-.088	5.75
68	MP-2	Z	-.088	5.75
69	MP-3	Z	-.106	6.5
70	MP-4	Z	-.116	6.5
71	MP-5	Z	-.113	5.75
72	MP-6	Z	-.113	5.75
73	MP-7	Z	-.149	6.5
74	MP-8	Z	-.155	6.5
75	MP-9	Z	-.063	5.75
76	MP-10	Z	-.063	5.75
77	MP-11	Z	-.064	6.5
78	MP-12	Z	-.077	6.5

**Member Point Loads (BLC 9 : 150 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.126	2
2	MP-2	X	.126	2
3	MP-3	X	.16	.5
4	MP-3	X	.06	2
5	MP-3	X	.045	2
6	MP-4	X	.17	.5
7	MP-4	X	.028	2



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**Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
8	MP-4	X	.048	2
9	MP-5	X	.126	2
10	MP-6	X	.126	2
11	MP-7	X	.16	.5
12	MP-7	X	.06	2
13	MP-7	X	.045	2
14	MP-8	X	.17	.5
15	MP-8	X	.028	2
16	MP-8	X	.048	2
17	MP-9	X	.072	2
18	MP-10	X	.072	2
19	MP-11	X	.071	.5
20	MP-11	X	.085	2
21	MP-11	X	.063	2
22	MP-12	X	.087	.5
23	MP-12	X	.051	2
24	MP-12	X	.061	2
25	SF2-TH	X	.101	1.5
26	M57	X	.101	4
27	M34	X	.036	1.5
28	MP-1	X	.126	5.75
29	MP-2	X	.126	5.75
30	MP-3	X	.16	6.5
31	MP-4	X	.17	6.5
32	MP-5	X	.126	5.75
33	MP-6	X	.126	5.75
34	MP-7	X	.16	6.5
35	MP-8	X	.17	6.5
36	MP-9	X	.072	5.75
37	MP-10	X	.072	5.75
38	MP-11	X	.071	6.5
39	MP-12	X	.087	6.5
40	MP-1	Z	-.073	2
41	MP-2	Z	-.073	2
42	MP-3	Z	-.093	.5
43	MP-3	Z	-.035	2
44	MP-3	Z	-.026	2
45	MP-4	Z	-.098	.5
46	MP-4	Z	-.016	2
47	MP-4	Z	-.028	2
48	MP-5	Z	-.073	2
49	MP-6	Z	-.073	2
50	MP-7	Z	-.093	.5
51	MP-7	Z	-.035	2
52	MP-7	Z	-.026	2
53	MP-8	Z	-.098	.5
54	MP-8	Z	-.016	2
55	MP-8	Z	-.028	2
56	MP-9	Z	-.042	2
57	MP-10	Z	-.042	2
58	MP-11	Z	-.041	.5
59	MP-11	Z	-.049	2
60	MP-11	Z	-.036	2
61	MP-12	Z	-.05	.5
62	MP-12	Z	-.03	2
63	MP-12	Z	-.035	2
64	SF2-TH	Z	-.058	1.5



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**Member Point Loads (BLC 9 : 150 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
65	M57	Z	-.058	4
66	M34	Z	-.021	1.5
67	MP-1	Z	-.073	5.75
68	MP-2	Z	-.073	5.75
69	MP-3	Z	-.093	6.5
70	MP-4	Z	-.098	6.5
71	MP-5	Z	-.073	5.75
72	MP-6	Z	-.073	5.75
73	MP-7	Z	-.093	6.5
74	MP-8	Z	-.098	6.5
75	MP-9	Z	-.042	5.75
76	MP-10	Z	-.042	5.75
77	MP-11	Z	-.041	6.5
78	MP-12	Z	-.05	6.5

**Member Point Loads (BLC 10 : 180 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.166	2
2	MP-2	X	.166	2
3	MP-3	X	.22	.5
4	MP-3	X	.06	2
5	MP-3	X	.045	2
6	MP-4	X	.228	.5
7	MP-4	X	.023	2
8	MP-4	X	.051	2
9	MP-5	X	.104	2
10	MP-6	X	.104	2
11	MP-7	X	.116	.5
12	MP-7	X	.089	2
13	MP-7	X	.066	2
14	MP-8	X	.133	.5
15	MP-8	X	.05	2
16	MP-8	X	.066	2
17	MP-9	X	.104	2
18	MP-10	X	.104	2
19	MP-11	X	.116	.5
20	MP-11	X	.089	2
21	MP-11	X	.066	2
22	MP-12	X	.133	.5
23	MP-12	X	.05	2
24	MP-12	X	.066	2
25	SF2-TH	X	.098	1.5
26	M57	X	.098	4
27	M34	X	.041	1.5
28	MP-1	X	.166	5.75
29	MP-2	X	.166	5.75
30	MP-3	X	.22	6.5
31	MP-4	X	.228	6.5
32	MP-5	X	.104	5.75
33	MP-6	X	.104	5.75
34	MP-7	X	.116	6.5
35	MP-8	X	.133	6.5
36	MP-9	X	.104	5.75
37	MP-10	X	.104	5.75
38	MP-11	X	.116	6.5
39	MP-12	X	.133	6.5



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
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**Member Point Loads (BLC 11 : 210 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.126	2
2	MP-2	X	.126	2
3	MP-3	X	.16	.5
4	MP-3	X	.06	2
5	MP-3	X	.045	2
6	MP-4	X	.17	.5
7	MP-4	X	.028	2
8	MP-4	X	.048	2
9	MP-5	X	.072	2
10	MP-6	X	.072	2
11	MP-7	X	.071	.5
12	MP-7	X	.085	2
13	MP-7	X	.063	2
14	MP-8	X	.087	.5
15	MP-8	X	.051	2
16	MP-8	X	.061	2
17	MP-9	X	.126	2
18	MP-10	X	.126	2
19	MP-11	X	.16	.5
20	MP-11	X	.06	2
21	MP-11	X	.045	2
22	MP-12	X	.17	.5
23	MP-12	X	.028	2
24	MP-12	X	.048	2
25	SF2-TH	X	.101	1.5
26	M57	X	.101	4
27	M34	X	.036	1.5
28	MP-1	X	.126	5.75
29	MP-2	X	.126	5.75
30	MP-3	X	.16	6.5
31	MP-4	X	.17	6.5
32	MP-5	X	.072	5.75
33	MP-6	X	.072	5.75
34	MP-7	X	.071	6.5
35	MP-8	X	.087	6.5
36	MP-9	X	.126	5.75
37	MP-10	X	.126	5.75
38	MP-11	X	.16	6.5
39	MP-12	X	.17	6.5
40	MP-1	Z	.073	2
41	MP-2	Z	.073	2
42	MP-3	Z	.093	.5
43	MP-3	Z	.035	2
44	MP-3	Z	.026	2
45	MP-4	Z	.098	.5
46	MP-4	Z	.016	2
47	MP-4	Z	.028	2
48	MP-5	Z	.042	2
49	MP-6	Z	.042	2
50	MP-7	Z	.041	.5
51	MP-7	Z	.049	2
52	MP-7	Z	.036	2
53	MP-8	Z	.05	.5
54	MP-8	Z	.03	2
55	MP-8	Z	.035	2
56	MP-9	Z	.073	2
57	MP-10	Z	.073	2



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)**

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
58	MP-11	Z	.093	.5
59	MP-11	Z	.035	2
60	MP-11	Z	.026	2
61	MP-12	Z	.098	.5
62	MP-12	Z	.016	2
63	MP-12	Z	.028	2
64	SF2-TH	Z	.058	1.5
65	M57	Z	.058	4
66	M34	Z	.021	1.5
67	MP-1	Z	.073	5.75
68	MP-2	Z	.073	5.75
69	MP-3	Z	.093	6.5
70	MP-4	Z	.098	6.5
71	MP-5	Z	.042	5.75
72	MP-6	Z	.042	5.75
73	MP-7	Z	.041	6.5
74	MP-8	Z	.05	6.5
75	MP-9	Z	.073	5.75
76	MP-10	Z	.073	5.75
77	MP-11	Z	.093	6.5
78	MP-12	Z	.098	6.5

**Member Point Loads (BLC 12 : 225 Wind - No Ice)**

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.088	2
2	MP-2	X	.088	2
3	MP-3	X	.106	.5
4	MP-3	X	.056	2
5	MP-3	X	.042	2
6	MP-4	X	.116	.5
7	MP-4	X	.029	2
8	MP-4	X	.043	2
9	MP-5	X	.063	2
10	MP-6	X	.063	2
11	MP-7	X	.064	.5
12	MP-7	X	.068	2
13	MP-7	X	.05	2
14	MP-8	X	.077	.5
15	MP-8	X	.04	2
16	MP-8	X	.049	2
17	MP-9	X	.113	2
18	MP-10	X	.113	2
19	MP-11	X	.149	.5
20	MP-11	X	.044	2
21	MP-11	X	.033	2
22	MP-12	X	.155	.5
23	MP-12	X	.018	2
24	MP-12	X	.037	2
25	SF2-TH	X	.096	1.5
26	M57	X	.096	4
27	M34	X	.029	1.5
28	MP-1	X	.088	5.75
29	MP-2	X	.088	5.75
30	MP-3	X	.106	6.5
31	MP-4	X	.116	6.5
32	MP-5	X	.063	5.75



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 12 : 225 Wind - No Ice) (Continued)**

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
33	MP-6	X	.063	5.75
34	MP-7	X	.064	6.5
35	MP-8	X	.077	6.5
36	MP-9	X	.113	5.75
37	MP-10	X	.113	5.75
38	MP-11	X	.149	6.5
39	MP-12	X	.155	6.5
40	MP-1	Z	.088	2
41	MP-2	Z	.088	2
42	MP-3	Z	.106	.5
43	MP-3	Z	.056	2
44	MP-3	Z	.042	2
45	MP-4	Z	.116	.5
46	MP-4	Z	.029	2
47	MP-4	Z	.043	2
48	MP-5	Z	.063	2
49	MP-6	Z	.063	2
50	MP-7	Z	.064	.5
51	MP-7	Z	.068	2
52	MP-7	Z	.05	2
53	MP-8	Z	.077	.5
54	MP-8	Z	.04	2
55	MP-8	Z	.049	2
56	MP-9	Z	.113	2
57	MP-10	Z	.113	2
58	MP-11	Z	.149	.5
59	MP-11	Z	.044	2
60	MP-11	Z	.033	2
61	MP-12	Z	.155	.5
62	MP-12	Z	.018	2
63	MP-12	Z	.037	2
64	SF2-TH	Z	.096	1.5
65	M57	Z	.096	4
66	M34	Z	.029	1.5
67	MP-1	Z	.088	5.75
68	MP-2	Z	.088	5.75
69	MP-3	Z	.106	6.5
70	MP-4	Z	.116	6.5
71	MP-5	Z	.063	5.75
72	MP-6	Z	.063	5.75
73	MP-7	Z	.064	6.5
74	MP-8	Z	.077	6.5
75	MP-9	Z	.113	5.75
76	MP-10	Z	.113	5.75
77	MP-11	Z	.149	6.5
78	MP-12	Z	.155	6.5

**Member Point Loads (BLC 13 : 240 Wind - No Ice)**

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.052	2
2	MP-2	X	.052	2
3	MP-3	X	.058	.5
4	MP-3	X	.044	2
5	MP-3	X	.033	2
6	MP-4	X	.066	.5
7	MP-4	X	.025	2



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
8	MP-4	X	.033	2
9	MP-5	X	.052	2
10	MP-6	X	.052	2
11	MP-7	X	.058	.5
12	MP-7	X	.044	2
13	MP-7	X	.033	2
14	MP-8	X	.066	.5
15	MP-8	X	.025	2
16	MP-8	X	.033	2
17	MP-9	X	.083	2
18	MP-10	X	.083	2
19	MP-11	X	.11	.5
20	MP-11	X	.03	2
21	MP-11	X	.022	2
22	MP-12	X	.114	.5
23	MP-12	X	.011	2
24	MP-12	X	.025	2
25	SF2-TH	X	.077	1.5
26	M57	X	.077	4
27	M34	X	.021	1.5
28	MP-1	X	.052	5.75
29	MP-2	X	.052	5.75
30	MP-3	X	.058	6.5
31	MP-4	X	.066	6.5
32	MP-5	X	.052	5.75
33	MP-6	X	.052	5.75
34	MP-7	X	.058	6.5
35	MP-8	X	.066	6.5
36	MP-9	X	.083	5.75
37	MP-10	X	.083	5.75
38	MP-11	X	.11	6.5
39	MP-12	X	.114	6.5
40	MP-1	Z	.09	2
41	MP-2	Z	.09	2
42	MP-3	Z	.101	.5
43	MP-3	Z	.077	2
44	MP-3	Z	.057	2
45	MP-4	Z	.115	.5
46	MP-4	Z	.043	2
47	MP-4	Z	.057	2
48	MP-5	Z	.09	2
49	MP-6	Z	.09	2
50	MP-7	Z	.101	.5
51	MP-7	Z	.077	2
52	MP-7	Z	.057	2
53	MP-8	Z	.115	.5
54	MP-8	Z	.043	2
55	MP-8	Z	.057	2
56	MP-9	Z	.144	2
57	MP-10	Z	.144	2
58	MP-11	Z	.19	.5
59	MP-11	Z	.052	2
60	MP-11	Z	.039	2
61	MP-12	Z	.198	.5
62	MP-12	Z	.02	2
63	MP-12	Z	.044	2
64	SF2-TH	Z	.133	1.5



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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**Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
65	M57	Z	.133	4
66	M34	Z	.036	1.5
67	MP-1	Z	.09	5.75
68	MP-2	Z	.09	5.75
69	MP-3	Z	.101	6.5
70	MP-4	Z	.115	6.5
71	MP-5	Z	.09	5.75
72	MP-6	Z	.09	5.75
73	MP-7	Z	.101	6.5
74	MP-8	Z	.115	6.5
75	MP-9	Z	.144	5.75
76	MP-10	Z	.144	5.75
77	MP-11	Z	.19	6.5
78	MP-12	Z	.198	6.5

**Member Point Loads (BLC 14 : 270 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.084	2
2	MP-2	Z	.084	2
3	MP-3	Z	.082	.5
4	MP-3	Z	.098	2
5	MP-3	Z	.073	2
6	MP-4	Z	.101	.5
7	MP-4	Z	.059	2
8	MP-4	Z	.071	2
9	MP-5	Z	.145	2
10	MP-6	Z	.145	2
11	MP-7	Z	.185	.5
12	MP-7	Z	.07	2
13	MP-7	Z	.052	2
14	MP-8	Z	.197	.5
15	MP-8	Z	.032	2
16	MP-8	Z	.056	2
17	MP-9	Z	.145	2
18	MP-10	Z	.145	2
19	MP-11	Z	.185	.5
20	MP-11	Z	.07	2
21	MP-11	Z	.052	2
22	MP-12	Z	.197	.5
23	MP-12	Z	.032	2
24	MP-12	Z	.056	2
25	SF2-TH	Z	.172	1.5
26	M57	Z	.172	4
27	M34	Z	.041	1.5
28	MP-1	Z	.084	5.75
29	MP-2	Z	.084	5.75
30	MP-3	Z	.082	6.5
31	MP-4	Z	.101	6.5
32	MP-5	Z	.145	5.75
33	MP-6	Z	.145	5.75
34	MP-7	Z	.185	6.5
35	MP-8	Z	.197	6.5
36	MP-9	Z	.145	5.75
37	MP-10	Z	.145	5.75
38	MP-11	Z	.185	6.5
39	MP-12	Z	.197	6.5



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 15 : 300 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.052	2
2	MP-2	X	-.052	2
3	MP-3	X	-.058	.5
4	MP-3	X	-.044	2
5	MP-3	X	-.033	2
6	MP-4	X	-.066	.5
7	MP-4	X	-.025	2
8	MP-4	X	-.033	2
9	MP-5	X	-.083	2
10	MP-6	X	-.083	2
11	MP-7	X	-.11	.5
12	MP-7	X	-.03	2
13	MP-7	X	-.022	2
14	MP-8	X	-.114	.5
15	MP-8	X	-.011	2
16	MP-8	X	-.025	2
17	MP-9	X	-.052	2
18	MP-10	X	-.052	2
19	MP-11	X	-.058	.5
20	MP-11	X	-.044	2
21	MP-11	X	-.033	2
22	MP-12	X	-.066	.5
23	MP-12	X	-.025	2
24	MP-12	X	-.033	2
25	SF2-TH	X	-.077	1.5
26	M57	X	-.077	4
27	M34	X	-.021	1.5
28	MP-1	X	-.052	5.75
29	MP-2	X	-.052	5.75
30	MP-3	X	-.058	6.5
31	MP-4	X	-.066	6.5
32	MP-5	X	-.083	5.75
33	MP-6	X	-.083	5.75
34	MP-7	X	-.11	6.5
35	MP-8	X	-.114	6.5
36	MP-9	X	-.052	5.75
37	MP-10	X	-.052	5.75
38	MP-11	X	-.058	6.5
39	MP-12	X	-.066	6.5
40	MP-1	Z	.09	2
41	MP-2	Z	.09	2
42	MP-3	Z	.101	.5
43	MP-3	Z	.077	2
44	MP-3	Z	.057	2
45	MP-4	Z	.115	.5
46	MP-4	Z	.043	2
47	MP-4	Z	.057	2
48	MP-5	Z	.144	2
49	MP-6	Z	.144	2
50	MP-7	Z	.19	.5
51	MP-7	Z	.052	2
52	MP-7	Z	.039	2
53	MP-8	Z	.198	.5
54	MP-8	Z	.02	2
55	MP-8	Z	.044	2
56	MP-9	Z	.09	2
57	MP-10	Z	.09	2



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**Member Point Loads (BLC 15 : 300 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-11	Z	.101	.5
59	MP-11	Z	.077	2
60	MP-11	Z	.057	2
61	MP-12	Z	.115	.5
62	MP-12	Z	.043	2
63	MP-12	Z	.057	2
64	SF2-TH	Z	.133	1.5
65	M57	Z	.133	4
66	M34	Z	.036	1.5
67	MP-1	Z	.09	5.75
68	MP-2	Z	.09	5.75
69	MP-3	Z	.101	6.5
70	MP-4	Z	.115	6.5
71	MP-5	Z	.144	5.75
72	MP-6	Z	.144	5.75
73	MP-7	Z	.19	6.5
74	MP-8	Z	.198	6.5
75	MP-9	Z	.09	5.75
76	MP-10	Z	.09	5.75
77	MP-11	Z	.101	6.5
78	MP-12	Z	.115	6.5

**Member Point Loads (BLC 16 : 315 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.088	2
2	MP-2	X	-.088	2
3	MP-3	X	-.106	.5
4	MP-3	X	-.056	2
5	MP-3	X	-.042	2
6	MP-4	X	-.116	.5
7	MP-4	X	-.029	2
8	MP-4	X	-.043	2
9	MP-5	X	-.113	2
10	MP-6	X	-.113	2
11	MP-7	X	-.149	.5
12	MP-7	X	-.044	2
13	MP-7	X	-.033	2
14	MP-8	X	-.155	.5
15	MP-8	X	-.018	2
16	MP-8	X	-.037	2
17	MP-9	X	-.063	2
18	MP-10	X	-.063	2
19	MP-11	X	-.064	.5
20	MP-11	X	-.068	2
21	MP-11	X	-.05	2
22	MP-12	X	-.077	.5
23	MP-12	X	-.04	2
24	MP-12	X	-.049	2
25	SF2-TH	X	-.096	1.5
26	M57	X	-.096	4
27	M34	X	-.029	1.5
28	MP-1	X	-.088	5.75
29	MP-2	X	-.088	5.75
30	MP-3	X	-.106	6.5
31	MP-4	X	-.116	6.5
32	MP-5	X	-.113	5.75



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
33	MP-6	X	-.113	5.75
34	MP-7	X	-.149	6.5
35	MP-8	X	-.155	6.5
36	MP-9	X	-.063	5.75
37	MP-10	X	-.063	5.75
38	MP-11	X	-.064	6.5
39	MP-12	X	-.077	6.5
40	MP-1	Z	.088	2
41	MP-2	Z	.088	2
42	MP-3	Z	.106	.5
43	MP-3	Z	.056	2
44	MP-3	Z	.042	2
45	MP-4	Z	.116	.5
46	MP-4	Z	.029	2
47	MP-4	Z	.043	2
48	MP-5	Z	.113	2
49	MP-6	Z	.113	2
50	MP-7	Z	.149	.5
51	MP-7	Z	.044	2
52	MP-7	Z	.033	2
53	MP-8	Z	.155	.5
54	MP-8	Z	.018	2
55	MP-8	Z	.037	2
56	MP-9	Z	.063	2
57	MP-10	Z	.063	2
58	MP-11	Z	.064	.5
59	MP-11	Z	.068	2
60	MP-11	Z	.05	2
61	MP-12	Z	.077	.5
62	MP-12	Z	.04	2
63	MP-12	Z	.049	2
64	SF2-TH	Z	.096	1.5
65	M57	Z	.096	4
66	M34	Z	.029	1.5
67	MP-1	Z	.088	5.75
68	MP-2	Z	.088	5.75
69	MP-3	Z	.106	6.5
70	MP-4	Z	.116	6.5
71	MP-5	Z	.113	5.75
72	MP-6	Z	.113	5.75
73	MP-7	Z	.149	6.5
74	MP-8	Z	.155	6.5
75	MP-9	Z	.063	5.75
76	MP-10	Z	.063	5.75
77	MP-11	Z	.064	6.5
78	MP-12	Z	.077	6.5

**Member Point Loads (BLC 17 : 330 Wind - No Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
1	MP-1	X	-.126	2
2	MP-2	X	-.126	2
3	MP-3	X	-.16	.5
4	MP-3	X	-.06	2
5	MP-3	X	-.045	2
6	MP-4	X	-.17	.5
7	MP-4	X	-.028	2



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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**Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
8	MP-4	X	-.048	2
9	MP-5	X	-.126	2
10	MP-6	X	-.126	2
11	MP-7	X	-.16	.5
12	MP-7	X	-.06	2
13	MP-7	X	-.045	2
14	MP-8	X	-.17	.5
15	MP-8	X	-.028	2
16	MP-8	X	-.048	2
17	MP-9	X	-.072	2
18	MP-10	X	-.072	2
19	MP-11	X	-.071	.5
20	MP-11	X	-.085	2
21	MP-11	X	-.063	2
22	MP-12	X	-.087	.5
23	MP-12	X	-.051	2
24	MP-12	X	-.061	2
25	SF2-TH	X	-.101	1.5
26	M57	X	-.101	4
27	M34	X	-.036	1.5
28	MP-1	X	-.126	5.75
29	MP-2	X	-.126	5.75
30	MP-3	X	-.16	6.5
31	MP-4	X	-.17	6.5
32	MP-5	X	-.126	5.75
33	MP-6	X	-.126	5.75
34	MP-7	X	-.16	6.5
35	MP-8	X	-.17	6.5
36	MP-9	X	-.072	5.75
37	MP-10	X	-.072	5.75
38	MP-11	X	-.071	6.5
39	MP-12	X	-.087	6.5
40	MP-1	Z	.073	2
41	MP-2	Z	.073	2
42	MP-3	Z	.093	.5
43	MP-3	Z	.035	2
44	MP-3	Z	.026	2
45	MP-4	Z	.098	.5
46	MP-4	Z	.016	2
47	MP-4	Z	.028	2
48	MP-5	Z	.073	2
49	MP-6	Z	.073	2
50	MP-7	Z	.093	.5
51	MP-7	Z	.035	2
52	MP-7	Z	.026	2
53	MP-8	Z	.098	.5
54	MP-8	Z	.016	2
55	MP-8	Z	.028	2
56	MP-9	Z	.042	2
57	MP-10	Z	.042	2
58	MP-11	Z	.041	.5
59	MP-11	Z	.049	2
60	MP-11	Z	.036	2
61	MP-12	Z	.05	.5
62	MP-12	Z	.03	2
63	MP-12	Z	.035	2
64	SF2-TH	Z	.058	1.5



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
65	M57	Z	.058	4
66	M34	Z	.021	1.5
67	MP-1	Z	.073	5.75
68	MP-2	Z	.073	5.75
69	MP-3	Z	.093	6.5
70	MP-4	Z	.098	6.5
71	MP-5	Z	.073	5.75
72	MP-6	Z	.073	5.75
73	MP-7	Z	.093	6.5
74	MP-8	Z	.098	6.5
75	MP-9	Z	.042	5.75
76	MP-10	Z	.042	5.75
77	MP-11	Z	.041	6.5
78	MP-12	Z	.05	6.5

**Member Point Loads (BLC 18 : Ice Weight)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Y	-.077	2
2	MP-2	Y	-.077	2
3	MP-3	Y	-.091	.5
4	MP-3	Y	-.053	2
5	MP-3	Y	-.045	2
6	MP-4	Y	-.09	.5
7	MP-4	Y	-.031	2
8	MP-4	Y	-.047	2
9	MP-5	Y	-.077	2
10	MP-6	Y	-.077	2
11	MP-7	Y	-.091	.5
12	MP-7	Y	-.053	2
13	MP-7	Y	-.045	2
14	MP-8	Y	-.09	.5
15	MP-8	Y	-.031	2
16	MP-8	Y	-.047	2
17	MP-9	Y	-.077	2
18	MP-10	Y	-.077	2
19	MP-11	Y	-.091	.5
20	MP-11	Y	-.053	2
21	MP-11	Y	-.045	2
22	MP-12	Y	-.09	.5
23	MP-12	Y	-.031	2
24	MP-12	Y	-.047	2
25	SF2-TH	Y	-.091	1.5
26	M57	Y	-.091	4
27	M34	Y	-.045	1.5
28	MP-1	Y	-.077	5.75
29	MP-2	Y	-.077	5.75
30	MP-3	Y	-.091	6.5
31	MP-4	Y	-.09	6.5
32	MP-5	Y	-.077	5.75
33	MP-6	Y	-.077	5.75
34	MP-7	Y	-.091	6.5
35	MP-8	Y	-.09	6.5
36	MP-9	Y	-.077	5.75
37	MP-10	Y	-.077	5.75
38	MP-11	Y	-.091	6.5
39	MP-12	Y	-.09	6.5



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**Member Point Loads (BLC 19 : 0 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.031	2
2	MP-2	X	-.031	2
3	MP-3	X	-.04	.5
4	MP-3	X	-.02	2
5	MP-3	X	-.015	2
6	MP-4	X	-.042	.5
7	MP-4	X	-.013	2
8	MP-4	X	-.015	2
9	MP-5	X	-.031	2
10	MP-6	X	-.031	2
11	MP-7	X	-.04	.5
12	MP-7	X	-.02	2
13	MP-7	X	-.015	2
14	MP-8	X	-.042	.5
15	MP-8	X	-.013	2
16	MP-8	X	-.015	2
17	MP-9	X	-.031	2
18	MP-10	X	-.031	2
19	MP-11	X	-.04	.5
20	MP-11	X	-.02	2
21	MP-11	X	-.015	2
22	MP-12	X	-.042	.5
23	MP-12	X	-.013	2
24	MP-12	X	-.015	2
25	SF2-TH	X	-.02	1.5
26	M57	X	-.02	4
27	M34	X	-.009	1.5
28	MP-1	X	-.031	5.75
29	MP-2	X	-.031	5.75
30	MP-3	X	-.04	6.5
31	MP-4	X	-.042	6.5
32	MP-5	X	-.031	5.75
33	MP-6	X	-.031	5.75
34	MP-7	X	-.04	6.5
35	MP-8	X	-.042	6.5
36	MP-9	X	-.031	5.75
37	MP-10	X	-.031	5.75
38	MP-11	X	-.04	6.5
39	MP-12	X	-.042	6.5

**Member Point Loads (BLC 20 : 30 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.024	2
2	MP-2	X	-.024	2
3	MP-3	X	-.029	.5
4	MP-3	X	-.013	2
5	MP-3	X	-.01	2
6	MP-4	X	-.031	.5
7	MP-4	X	-.007	2
8	MP-4	X	-.011	2
9	MP-5	X	-.015	2
10	MP-6	X	-.015	2
11	MP-7	X	-.015	.5
12	MP-7	X	-.018	2
13	MP-7	X	-.013	2
14	MP-8	X	-.018	.5





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**Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	MP-8	X	-0.11	2
16	MP-8	X	-0.13	2
17	MP-9	X	-0.24	2
18	MP-10	X	-0.24	2
19	MP-11	X	-0.29	.5
20	MP-11	X	-0.13	2
21	MP-11	X	-.01	2
22	MP-12	X	-0.31	.5
23	MP-12	X	-.007	2
24	MP-12	X	-0.11	2
25	SF2-TH	X	-.02	1.5
26	M57	X	-.02	4
27	M34	X	-.007	1.5
28	MP-1	X	-0.24	5.75
29	MP-2	X	-0.24	5.75
30	MP-3	X	-0.29	6.5
31	MP-4	X	-.031	6.5
32	MP-5	X	-0.15	5.75
33	MP-6	X	-0.15	5.75
34	MP-7	X	-0.15	6.5
35	MP-8	X	-0.18	6.5
36	MP-9	X	-0.24	5.75
37	MP-10	X	-0.24	5.75
38	MP-11	X	-0.29	6.5
39	MP-12	X	-.031	6.5
40	MP-1	Z	-.014	2
41	MP-2	Z	-.014	2
42	MP-3	Z	-.017	.5
43	MP-3	Z	-.008	2
44	MP-3	Z	-.006	2
45	MP-4	Z	-.018	.5
46	MP-4	Z	-.004	2
47	MP-4	Z	-.006	2
48	MP-5	Z	-.009	2
49	MP-6	Z	-.009	2
50	MP-7	Z	-.008	.5
51	MP-7	Z	-.01	2
52	MP-7	Z	-.008	2
53	MP-8	Z	-.01	.5
54	MP-8	Z	-.006	2
55	MP-8	Z	-.007	2
56	MP-9	Z	-.014	2
57	MP-10	Z	-.014	2
58	MP-11	Z	-.017	.5
59	MP-11	Z	-.008	2
60	MP-11	Z	-.006	2
61	MP-12	Z	-.018	.5
62	MP-12	Z	-.004	2
63	MP-12	Z	-.006	2
64	SF2-TH	Z	-.012	1.5
65	M57	Z	-.012	4
66	M34	Z	-.004	1.5
67	MP-1	Z	-.014	5.75
68	MP-2	Z	-.014	5.75
69	MP-3	Z	-.017	6.5
70	MP-4	Z	-.018	6.5
71	MP-5	Z	-.009	5.75



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 20 : 30 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
72	MP-6	Z	-.009	5.75
73	MP-7	Z	-.008	6.5
74	MP-8	Z	-.01	6.5
75	MP-9	Z	-.014	5.75
76	MP-10	Z	-.014	5.75
77	MP-11	Z	-.017	6.5
78	MP-12	Z	-.018	6.5

**Member Point Loads (BLC 21 : 45 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.17	2
2	MP-2	X	-0.17	2
3	MP-3	X	-.02	.5
4	MP-3	X	-.012	2
5	MP-3	X	-.009	2
6	MP-4	X	-.022	.5
7	MP-4	X	-.007	2
8	MP-4	X	-.009	2
9	MP-5	X	-.013	2
10	MP-6	X	-.013	2
11	MP-7	X	-.013	.5
12	MP-7	X	-.014	2
13	MP-7	X	-.011	2
14	MP-8	X	-.016	.5
15	MP-8	X	-.009	2
16	MP-8	X	-.01	2
17	MP-9	X	-.021	2
18	MP-10	X	-.021	2
19	MP-11	X	-.027	.5
20	MP-11	X	-.01	2
21	MP-11	X	-.008	2
22	MP-12	X	-.028	.5
23	MP-12	X	-.005	2
24	MP-12	X	-.008	2
25	SF2-TH	X	-.019	1.5
26	M57	X	-.019	4
27	M34	X	-.006	1.5
28	MP-1	X	-.017	5.75
29	MP-2	X	-.017	5.75
30	MP-3	X	-.02	6.5
31	MP-4	X	-.022	6.5
32	MP-5	X	-.013	5.75
33	MP-6	X	-.013	5.75
34	MP-7	X	-.013	6.5
35	MP-8	X	-.016	6.5
36	MP-9	X	-.021	5.75
37	MP-10	X	-.021	5.75
38	MP-11	X	-.027	6.5
39	MP-12	X	-.028	6.5
40	MP-1	Z	-.017	2
41	MP-2	Z	-.017	2
42	MP-3	Z	-.02	.5
43	MP-3	Z	-.012	2
44	MP-3	Z	-.009	2
45	MP-4	Z	-.022	.5
46	MP-4	Z	-.007	2



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**Member Point Loads (BLC 21 : 45 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
47	MP-4	Z	-0.09	2
48	MP-5	Z	-0.13	2
49	MP-6	Z	-0.13	2
50	MP-7	Z	-0.13	.5
51	MP-7	Z	-0.14	2
52	MP-7	Z	-0.11	2
53	MP-8	Z	-0.16	.5
54	MP-8	Z	-0.09	2
55	MP-8	Z	-0.1	2
56	MP-9	Z	-0.21	2
57	MP-10	Z	-0.21	2
58	MP-11	Z	-0.27	.5
59	MP-11	Z	-0.1	2
60	MP-11	Z	-0.08	2
61	MP-12	Z	-0.28	.5
62	MP-12	Z	-0.05	2
63	MP-12	Z	-0.08	2
64	SF2-TH	Z	-0.19	1.5
65	M57	Z	-0.19	4
66	M34	Z	-0.06	1.5
67	MP-1	Z	-0.17	5.75
68	MP-2	Z	-0.17	5.75
69	MP-3	Z	-.02	6.5
70	MP-4	Z	-.022	6.5
71	MP-5	Z	-.013	5.75
72	MP-6	Z	-.013	5.75
73	MP-7	Z	-.013	6.5
74	MP-8	Z	-.016	6.5
75	MP-9	Z	-.021	5.75
76	MP-10	Z	-.021	5.75
77	MP-11	Z	-.027	6.5
78	MP-12	Z	-.028	6.5

**Member Point Loads (BLC 22 : 60 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
1	MP-1	X	-.01	2
2	MP-2	X	-.01	2
3	MP-3	X	-.011	.5
4	MP-3	X	-.009	2
5	MP-3	X	-.007	2
6	MP-4	X	-.013	.5
7	MP-4	X	-.006	2
8	MP-4	X	-.007	2
9	MP-5	X	-.01	2
10	MP-6	X	-.01	2
11	MP-7	X	-.011	.5
12	MP-7	X	-.009	2
13	MP-7	X	-.007	2
14	MP-8	X	-.013	.5
15	MP-8	X	-.006	2
16	MP-8	X	-.007	2
17	MP-9	X	-.016	2
18	MP-10	X	-.016	2
19	MP-11	X	-.02	.5
20	MP-11	X	-.007	2
21	MP-11	X	-.005	2



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**Member Point Loads (BLC 22 : 60 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)
22	MP-12	X	-.021	.5
23	MP-12	X	-.003	2
24	MP-12	X	-.006	2
25	SF2-TH	X	-.015	1.5
26	M57	X	-.015	4
27	M34	X	-.004	1.5
28	MP-1	X	-.01	5.75
29	MP-2	X	-.01	5.75
30	MP-3	X	-.011	6.5
31	MP-4	X	-.013	6.5
32	MP-5	X	-.01	5.75
33	MP-6	X	-.01	5.75
34	MP-7	X	-.011	6.5
35	MP-8	X	-.013	6.5
36	MP-9	X	-.016	5.75
37	MP-10	X	-.016	5.75
38	MP-11	X	-.02	6.5
39	MP-12	X	-.021	6.5
40	MP-1	Z	-.018	2
41	MP-2	Z	-.018	2
42	MP-3	Z	-.02	.5
43	MP-3	Z	-.016	2
44	MP-3	Z	-.012	2
45	MP-4	Z	-.022	.5
46	MP-4	Z	-.01	2
47	MP-4	Z	-.012	2
48	MP-5	Z	-.018	2
49	MP-6	Z	-.018	2
50	MP-7	Z	-.02	.5
51	MP-7	Z	-.016	2
52	MP-7	Z	-.012	2
53	MP-8	Z	-.022	.5
54	MP-8	Z	-.01	2
55	MP-8	Z	-.012	2
56	MP-9	Z	-.027	2
57	MP-10	Z	-.027	2
58	MP-11	Z	-.034	.5
59	MP-11	Z	-.012	2
60	MP-11	Z	-.009	2
61	MP-12	Z	-.036	.5
62	MP-12	Z	-.005	2
63	MP-12	Z	-.01	2
64	SF2-TH	Z	-.026	1.5
65	M57	Z	-.026	4
66	M34	Z	-.007	1.5
67	MP-1	Z	-.018	5.75
68	MP-2	Z	-.018	5.75
69	MP-3	Z	-.02	6.5
70	MP-4	Z	-.022	6.5
71	MP-5	Z	-.018	5.75
72	MP-6	Z	-.018	5.75
73	MP-7	Z	-.02	6.5
74	MP-8	Z	-.022	6.5
75	MP-9	Z	-.027	5.75
76	MP-10	Z	-.027	5.75
77	MP-11	Z	-.034	6.5
78	MP-12	Z	-.036	6.5



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**Member Point Loads (BLC 23 : 90 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.18	2
2	MP-2	Z	-0.18	2
3	MP-3	Z	-0.17	.5
4	MP-3	Z	-0.13	2
5	MP-3	Z	-.01	2
6	MP-4	Z	-.021	.5
7	MP-4	Z	-.006	2
8	MP-4	Z	-.011	2
9	MP-5	Z	-0.18	2
10	MP-6	Z	-0.18	2
11	MP-7	Z	-0.17	.5
12	MP-7	Z	-0.13	2
13	MP-7	Z	-.01	2
14	MP-8	Z	-.021	.5
15	MP-8	Z	-.006	2
16	MP-8	Z	-0.11	2
17	MP-9	Z	-0.18	2
18	MP-10	Z	-0.18	2
19	MP-11	Z	-0.17	.5
20	MP-11	Z	-0.13	2
21	MP-11	Z	-.01	2
22	MP-12	Z	-.021	.5
23	MP-12	Z	-.006	2
24	MP-12	Z	-0.11	2
25	SF2-TH	Z	-.033	1.5
26	M57	Z	-.033	4
27	M34	Z	-.009	1.5
28	MP-1	Z	-0.18	5.75
29	MP-2	Z	-0.18	5.75
30	MP-3	Z	-0.17	6.5
31	MP-4	Z	-0.21	6.5
32	MP-5	Z	-0.18	5.75
33	MP-6	Z	-0.18	5.75
34	MP-7	Z	-0.17	6.5
35	MP-8	Z	-0.21	6.5
36	MP-9	Z	-0.18	5.75
37	MP-10	Z	-0.18	5.75
38	MP-11	Z	-0.17	6.5
39	MP-12	Z	-0.21	6.5

**Member Point Loads (BLC 24 : 120 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.01	2
2	MP-2	X	.01	2
3	MP-3	X	.011	.5
4	MP-3	X	.009	2
5	MP-3	X	.007	2
6	MP-4	X	.013	.5
7	MP-4	X	.006	2
8	MP-4	X	.007	2
9	MP-5	X	.016	2
10	MP-6	X	.016	2
11	MP-7	X	.02	.5
12	MP-7	X	.007	2
13	MP-7	X	.005	2
14	MP-8	X	.021	.5



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**Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	MP-8	X	.003	2
16	MP-8	X	.006	2
17	MP-9	X	.01	2
18	MP-10	X	.01	2
19	MP-11	X	.011	.5
20	MP-11	X	.009	2
21	MP-11	X	.007	2
22	MP-12	X	.013	.5
23	MP-12	X	.006	2
24	MP-12	X	.007	2
25	SF2-TH	X	.015	1.5
26	M57	X	.015	4
27	M34	X	.004	1.5
28	MP-1	X	.01	5.75
29	MP-2	X	.01	5.75
30	MP-3	X	.011	6.5
31	MP-4	X	.013	6.5
32	MP-5	X	.016	5.75
33	MP-6	X	.016	5.75
34	MP-7	X	.02	6.5
35	MP-8	X	.021	6.5
36	MP-9	X	.01	5.75
37	MP-10	X	.01	5.75
38	MP-11	X	.011	6.5
39	MP-12	X	.013	6.5
40	MP-1	Z	-.018	2
41	MP-2	Z	-.018	2
42	MP-3	Z	-.02	.5
43	MP-3	Z	-.016	2
44	MP-3	Z	-.012	2
45	MP-4	Z	-.022	.5
46	MP-4	Z	-.01	2
47	MP-4	Z	-.012	2
48	MP-5	Z	-.027	2
49	MP-6	Z	-.027	2
50	MP-7	Z	-.034	.5
51	MP-7	Z	-.012	2
52	MP-7	Z	-.009	2
53	MP-8	Z	-.036	.5
54	MP-8	Z	-.005	2
55	MP-8	Z	-.01	2
56	MP-9	Z	-.018	2
57	MP-10	Z	-.018	2
58	MP-11	Z	-.02	.5
59	MP-11	Z	-.016	2
60	MP-11	Z	-.012	2
61	MP-12	Z	-.022	.5
62	MP-12	Z	-.01	2
63	MP-12	Z	-.012	2
64	SF2-TH	Z	-.026	1.5
65	M57	Z	-.026	4
66	M34	Z	-.007	1.5
67	MP-1	Z	-.018	5.75
68	MP-2	Z	-.018	5.75
69	MP-3	Z	-.02	6.5
70	MP-4	Z	-.022	6.5
71	MP-5	Z	-.027	5.75



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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**Member Point Loads (BLC 24 : 120 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
72	MP-6	Z	-.027	5.75
73	MP-7	Z	-.034	6.5
74	MP-8	Z	-.036	6.5
75	MP-9	Z	-.018	5.75
76	MP-10	Z	-.018	5.75
77	MP-11	Z	-.02	6.5
78	MP-12	Z	-.022	6.5

**Member Point Loads (BLC 25 : 135 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.017	2
2	MP-2	X	.017	2
3	MP-3	X	.02	.5
4	MP-3	X	.012	2
5	MP-3	X	.009	2
6	MP-4	X	.022	.5
7	MP-4	X	.007	2
8	MP-4	X	.009	2
9	MP-5	X	.021	2
10	MP-6	X	.021	2
11	MP-7	X	.027	.5
12	MP-7	X	.01	2
13	MP-7	X	.008	2
14	MP-8	X	.028	.5
15	MP-8	X	.005	2
16	MP-8	X	.008	2
17	MP-9	X	.013	2
18	MP-10	X	.013	2
19	MP-11	X	.013	.5
20	MP-11	X	.014	2
21	MP-11	X	.011	2
22	MP-12	X	.016	.5
23	MP-12	X	.009	2
24	MP-12	X	.01	2
25	SF2-TH	X	.019	1.5
26	M57	X	.019	4
27	M34	X	.006	1.5
28	MP-1	X	.017	5.75
29	MP-2	X	.017	5.75
30	MP-3	X	.02	6.5
31	MP-4	X	.022	6.5
32	MP-5	X	.021	5.75
33	MP-6	X	.021	5.75
34	MP-7	X	.027	6.5
35	MP-8	X	.028	6.5
36	MP-9	X	.013	5.75
37	MP-10	X	.013	5.75
38	MP-11	X	.013	6.5
39	MP-12	X	.016	6.5
40	MP-1	Z	-.017	2
41	MP-2	Z	-.017	2
42	MP-3	Z	-.02	.5
43	MP-3	Z	-.012	2
44	MP-3	Z	-.009	2
45	MP-4	Z	-.022	.5
46	MP-4	Z	-.007	2



Company : Tower Engineering Professionals, Inc.  
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**Member Point Loads (BLC 25 : 135 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
47	MP-4	Z	-.009	2
48	MP-5	Z	-.021	2
49	MP-6	Z	-.021	2
50	MP-7	Z	-.027	.5
51	MP-7	Z	-.01	2
52	MP-7	Z	-.008	2
53	MP-8	Z	-.028	.5
54	MP-8	Z	-.005	2
55	MP-8	Z	-.008	2
56	MP-9	Z	-.013	2
57	MP-10	Z	-.013	2
58	MP-11	Z	-.013	.5
59	MP-11	Z	-.014	2
60	MP-11	Z	-.011	2
61	MP-12	Z	-.016	.5
62	MP-12	Z	-.009	2
63	MP-12	Z	-.01	2
64	SF2-TH	Z	-.019	1.5
65	M57	Z	-.019	4
66	M34	Z	-.006	1.5
67	MP-1	Z	-.017	5.75
68	MP-2	Z	-.017	5.75
69	MP-3	Z	-.02	6.5
70	MP-4	Z	-.022	6.5
71	MP-5	Z	-.021	5.75
72	MP-6	Z	-.021	5.75
73	MP-7	Z	-.027	6.5
74	MP-8	Z	-.028	6.5
75	MP-9	Z	-.013	5.75
76	MP-10	Z	-.013	5.75
77	MP-11	Z	-.013	6.5
78	MP-12	Z	-.016	6.5

**Member Point Loads (BLC 26 : 150 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.024	2
2	MP-2	X	.024	2
3	MP-3	X	.029	.5
4	MP-3	X	.013	2
5	MP-3	X	.01	2
6	MP-4	X	.031	.5
7	MP-4	X	.007	2
8	MP-4	X	.011	2
9	MP-5	X	.024	2
10	MP-6	X	.024	2
11	MP-7	X	.029	.5
12	MP-7	X	.013	2
13	MP-7	X	.01	2
14	MP-8	X	.031	.5
15	MP-8	X	.007	2
16	MP-8	X	.011	2
17	MP-9	X	.015	2
18	MP-10	X	.015	2
19	MP-11	X	.015	.5
20	MP-11	X	.018	2
21	MP-11	X	.013	2



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**Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-12	X	.018	.5
23	MP-12	X	.011	2
24	MP-12	X	.013	2
25	SF2-TH	X	.02	1.5
26	M57	X	.02	4
27	M34	X	.007	1.5
28	MP-1	X	.024	5.75
29	MP-2	X	.024	5.75
30	MP-3	X	.029	6.5
31	MP-4	X	.031	6.5
32	MP-5	X	.024	5.75
33	MP-6	X	.024	5.75
34	MP-7	X	.029	6.5
35	MP-8	X	.031	6.5
36	MP-9	X	.015	5.75
37	MP-10	X	.015	5.75
38	MP-11	X	.015	6.5
39	MP-12	X	.018	6.5
40	MP-1	Z	-.014	2
41	MP-2	Z	-.014	2
42	MP-3	Z	-.017	.5
43	MP-3	Z	-.008	2
44	MP-3	Z	-.006	2
45	MP-4	Z	-.018	.5
46	MP-4	Z	-.004	2
47	MP-4	Z	-.006	2
48	MP-5	Z	-.014	2
49	MP-6	Z	-.014	2
50	MP-7	Z	-.017	.5
51	MP-7	Z	-.008	2
52	MP-7	Z	-.006	2
53	MP-8	Z	-.018	.5
54	MP-8	Z	-.004	2
55	MP-8	Z	-.006	2
56	MP-9	Z	-.009	2
57	MP-10	Z	-.009	2
58	MP-11	Z	-.008	.5
59	MP-11	Z	-.01	2
60	MP-11	Z	-.008	2
61	MP-12	Z	-.01	.5
62	MP-12	Z	-.006	2
63	MP-12	Z	-.007	2
64	SF2-TH	Z	-.012	1.5
65	M57	Z	-.012	4
66	M34	Z	-.004	1.5
67	MP-1	Z	-.014	5.75
68	MP-2	Z	-.014	5.75
69	MP-3	Z	-.017	6.5
70	MP-4	Z	-.018	6.5
71	MP-5	Z	-.014	5.75
72	MP-6	Z	-.014	5.75
73	MP-7	Z	-.017	6.5
74	MP-8	Z	-.018	6.5
75	MP-9	Z	-.009	5.75
76	MP-10	Z	-.009	5.75
77	MP-11	Z	-.008	6.5
78	MP-12	Z	-.01	6.5



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**Member Point Loads (BLC 27 : 180 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.031	2
2	MP-2	X	.031	2
3	MP-3	X	.04	.5
4	MP-3	X	.02	2
5	MP-3	X	.015	2
6	MP-4	X	.042	.5
7	MP-4	X	.013	2
8	MP-4	X	.015	2
9	MP-5	X	.031	2
10	MP-6	X	.031	2
11	MP-7	X	.04	.5
12	MP-7	X	.02	2
13	MP-7	X	.015	2
14	MP-8	X	.042	.5
15	MP-8	X	.013	2
16	MP-8	X	.015	2
17	MP-9	X	.031	2
18	MP-10	X	.031	2
19	MP-11	X	.04	.5
20	MP-11	X	.02	2
21	MP-11	X	.015	2
22	MP-12	X	.042	.5
23	MP-12	X	.013	2
24	MP-12	X	.015	2
25	SF2-TH	X	.02	1.5
26	M57	X	.02	4
27	M34	X	.009	1.5
28	MP-1	X	.031	5.75
29	MP-2	X	.031	5.75
30	MP-3	X	.04	6.5
31	MP-4	X	.042	6.5
32	MP-5	X	.031	5.75
33	MP-6	X	.031	5.75
34	MP-7	X	.04	6.5
35	MP-8	X	.042	6.5
36	MP-9	X	.031	5.75
37	MP-10	X	.031	5.75
38	MP-11	X	.04	6.5
39	MP-12	X	.042	6.5

**Member Point Loads (BLC 28 : 210 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.024	2
2	MP-2	X	.024	2
3	MP-3	X	.029	.5
4	MP-3	X	.013	2
5	MP-3	X	.01	2
6	MP-4	X	.031	.5
7	MP-4	X	.007	2
8	MP-4	X	.011	2
9	MP-5	X	.015	2
10	MP-6	X	.015	2
11	MP-7	X	.015	.5
12	MP-7	X	.018	2
13	MP-7	X	.013	2
14	MP-8	X	.018	.5



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**Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	MP-8	X	.011	2
16	MP-8	X	.013	2
17	MP-9	X	.024	2
18	MP-10	X	.024	2
19	MP-11	X	.029	.5
20	MP-11	X	.013	2
21	MP-11	X	.01	2
22	MP-12	X	.031	.5
23	MP-12	X	.007	2
24	MP-12	X	.011	2
25	SF2-TH	X	.02	1.5
26	M57	X	.02	4
27	M34	X	.007	1.5
28	MP-1	X	.024	5.75
29	MP-2	X	.024	5.75
30	MP-3	X	.029	6.5
31	MP-4	X	.031	6.5
32	MP-5	X	.015	5.75
33	MP-6	X	.015	5.75
34	MP-7	X	.015	6.5
35	MP-8	X	.018	6.5
36	MP-9	X	.024	5.75
37	MP-10	X	.024	5.75
38	MP-11	X	.029	6.5
39	MP-12	X	.031	6.5
40	MP-1	Z	.014	2
41	MP-2	Z	.014	2
42	MP-3	Z	.017	.5
43	MP-3	Z	.008	2
44	MP-3	Z	.006	2
45	MP-4	Z	.018	.5
46	MP-4	Z	.004	2
47	MP-4	Z	.006	2
48	MP-5	Z	.009	2
49	MP-6	Z	.009	2
50	MP-7	Z	.008	.5
51	MP-7	Z	.01	2
52	MP-7	Z	.008	2
53	MP-8	Z	.01	.5
54	MP-8	Z	.006	2
55	MP-8	Z	.007	2
56	MP-9	Z	.014	2
57	MP-10	Z	.014	2
58	MP-11	Z	.017	.5
59	MP-11	Z	.008	2
60	MP-11	Z	.006	2
61	MP-12	Z	.018	.5
62	MP-12	Z	.004	2
63	MP-12	Z	.006	2
64	SF2-TH	Z	.012	1.5
65	M57	Z	.012	4
66	M34	Z	.004	1.5
67	MP-1	Z	.014	5.75
68	MP-2	Z	.014	5.75
69	MP-3	Z	.017	6.5
70	MP-4	Z	.018	6.5
71	MP-5	Z	.009	5.75



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**Member Point Loads (BLC 28 : 210 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
72	MP-6	Z	.009	5.75
73	MP-7	Z	.008	6.5
74	MP-8	Z	.01	6.5
75	MP-9	Z	.014	5.75
76	MP-10	Z	.014	5.75
77	MP-11	Z	.017	6.5
78	MP-12	Z	.018	6.5

**Member Point Loads (BLC 29 : 225 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.017	2
2	MP-2	X	.017	2
3	MP-3	X	.02	.5
4	MP-3	X	.012	2
5	MP-3	X	.009	2
6	MP-4	X	.022	.5
7	MP-4	X	.007	2
8	MP-4	X	.009	2
9	MP-5	X	.013	2
10	MP-6	X	.013	2
11	MP-7	X	.013	.5
12	MP-7	X	.014	2
13	MP-7	X	.011	2
14	MP-8	X	.016	.5
15	MP-8	X	.009	2
16	MP-8	X	.01	2
17	MP-9	X	.021	2
18	MP-10	X	.021	2
19	MP-11	X	.027	.5
20	MP-11	X	.01	2
21	MP-11	X	.008	2
22	MP-12	X	.028	.5
23	MP-12	X	.005	2
24	MP-12	X	.008	2
25	SF2-TH	X	.019	1.5
26	M57	X	.019	4
27	M34	X	.006	1.5
28	MP-1	X	.017	5.75
29	MP-2	X	.017	5.75
30	MP-3	X	.02	6.5
31	MP-4	X	.022	6.5
32	MP-5	X	.013	5.75
33	MP-6	X	.013	5.75
34	MP-7	X	.013	6.5
35	MP-8	X	.016	6.5
36	MP-9	X	.021	5.75
37	MP-10	X	.021	5.75
38	MP-11	X	.027	6.5
39	MP-12	X	.028	6.5
40	MP-1	Z	.017	2
41	MP-2	Z	.017	2
42	MP-3	Z	.02	.5
43	MP-3	Z	.012	2
44	MP-3	Z	.009	2
45	MP-4	Z	.022	.5
46	MP-4	Z	.007	2



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**Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
47	MP-4	Z	.009	2
48	MP-5	Z	.013	2
49	MP-6	Z	.013	2
50	MP-7	Z	.013	.5
51	MP-7	Z	.014	2
52	MP-7	Z	.011	2
53	MP-8	Z	.016	.5
54	MP-8	Z	.009	2
55	MP-8	Z	.01	2
56	MP-9	Z	.021	2
57	MP-10	Z	.021	2
58	MP-11	Z	.027	.5
59	MP-11	Z	.01	2
60	MP-11	Z	.008	2
61	MP-12	Z	.028	.5
62	MP-12	Z	.005	2
63	MP-12	Z	.008	2
64	SF2-TH	Z	.019	1.5
65	M57	Z	.019	4
66	M34	Z	.006	1.5
67	MP-1	Z	.017	5.75
68	MP-2	Z	.017	5.75
69	MP-3	Z	.02	6.5
70	MP-4	Z	.022	6.5
71	MP-5	Z	.013	5.75
72	MP-6	Z	.013	5.75
73	MP-7	Z	.013	6.5
74	MP-8	Z	.016	6.5
75	MP-9	Z	.021	5.75
76	MP-10	Z	.021	5.75
77	MP-11	Z	.027	6.5
78	MP-12	Z	.028	6.5

**Member Point Loads (BLC 30 : 240 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.01	2
2	MP-2	X	.01	2
3	MP-3	X	.011	.5
4	MP-3	X	.009	2
5	MP-3	X	.007	2
6	MP-4	X	.013	.5
7	MP-4	X	.006	2
8	MP-4	X	.007	2
9	MP-5	X	.01	2
10	MP-6	X	.01	2
11	MP-7	X	.011	.5
12	MP-7	X	.009	2
13	MP-7	X	.007	2
14	MP-8	X	.013	.5
15	MP-8	X	.006	2
16	MP-8	X	.007	2
17	MP-9	X	.016	2
18	MP-10	X	.016	2
19	MP-11	X	.02	.5
20	MP-11	X	.007	2
21	MP-11	X	.005	2



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**Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-12	X	.021	.5
23	MP-12	X	.003	2
24	MP-12	X	.006	2
25	SF2-TH	X	.015	1.5
26	M57	X	.015	4
27	M34	X	.004	1.5
28	MP-1	X	.01	5.75
29	MP-2	X	.01	5.75
30	MP-3	X	.011	6.5
31	MP-4	X	.013	6.5
32	MP-5	X	.01	5.75
33	MP-6	X	.01	5.75
34	MP-7	X	.011	6.5
35	MP-8	X	.013	6.5
36	MP-9	X	.016	5.75
37	MP-10	X	.016	5.75
38	MP-11	X	.02	6.5
39	MP-12	X	.021	6.5
40	MP-1	Z	.018	2
41	MP-2	Z	.018	2
42	MP-3	Z	.02	.5
43	MP-3	Z	.016	2
44	MP-3	Z	.012	2
45	MP-4	Z	.022	.5
46	MP-4	Z	.01	2
47	MP-4	Z	.012	2
48	MP-5	Z	.018	2
49	MP-6	Z	.018	2
50	MP-7	Z	.02	.5
51	MP-7	Z	.016	2
52	MP-7	Z	.012	2
53	MP-8	Z	.022	.5
54	MP-8	Z	.01	2
55	MP-8	Z	.012	2
56	MP-9	Z	.027	2
57	MP-10	Z	.027	2
58	MP-11	Z	.034	.5
59	MP-11	Z	.012	2
60	MP-11	Z	.009	2
61	MP-12	Z	.036	.5
62	MP-12	Z	.005	2
63	MP-12	Z	.01	2
64	SF2-TH	Z	.026	1.5
65	M57	Z	.026	4
66	M34	Z	.007	1.5
67	MP-1	Z	.018	5.75
68	MP-2	Z	.018	5.75
69	MP-3	Z	.02	6.5
70	MP-4	Z	.022	6.5
71	MP-5	Z	.018	5.75
72	MP-6	Z	.018	5.75
73	MP-7	Z	.02	6.5
74	MP-8	Z	.022	6.5
75	MP-9	Z	.027	5.75
76	MP-10	Z	.027	5.75
77	MP-11	Z	.034	6.5
78	MP-12	Z	.036	6.5



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
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**Member Point Loads (BLC 31 : 270 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	.018	2
2	MP-2	Z	.018	2
3	MP-3	Z	.017	.5
4	MP-3	Z	.013	2
5	MP-3	Z	.01	2
6	MP-4	Z	.021	.5
7	MP-4	Z	.006	2
8	MP-4	Z	.011	2
9	MP-5	Z	.018	2
10	MP-6	Z	.018	2
11	MP-7	Z	.017	.5
12	MP-7	Z	.013	2
13	MP-7	Z	.01	2
14	MP-8	Z	.021	.5
15	MP-8	Z	.006	2
16	MP-8	Z	.011	2
17	MP-9	Z	.018	2
18	MP-10	Z	.018	2
19	MP-11	Z	.017	.5
20	MP-11	Z	.013	2
21	MP-11	Z	.01	2
22	MP-12	Z	.021	.5
23	MP-12	Z	.006	2
24	MP-12	Z	.011	2
25	SF2-TH	Z	.033	1.5
26	M57	Z	.033	4
27	M34	Z	.009	1.5
28	MP-1	Z	.018	5.75
29	MP-2	Z	.018	5.75
30	MP-3	Z	.017	6.5
31	MP-4	Z	.021	6.5
32	MP-5	Z	.018	5.75
33	MP-6	Z	.018	5.75
34	MP-7	Z	.017	6.5
35	MP-8	Z	.021	6.5
36	MP-9	Z	.018	5.75
37	MP-10	Z	.018	5.75
38	MP-11	Z	.017	6.5
39	MP-12	Z	.021	6.5

**Member Point Loads (BLC 32 : 300 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.01	2
2	MP-2	X	-.01	2
3	MP-3	X	-.011	.5
4	MP-3	X	-.009	2
5	MP-3	X	-.007	2
6	MP-4	X	-.013	.5
7	MP-4	X	-.006	2
8	MP-4	X	-.007	2
9	MP-5	X	-.016	2
10	MP-6	X	-.016	2
11	MP-7	X	-.02	.5
12	MP-7	X	-.007	2
13	MP-7	X	-.005	2
14	MP-8	X	-.021	.5



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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**Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
15	MP-8	X	-.003	2
16	MP-8	X	-.006	2
17	MP-9	X	-.01	2
18	MP-10	X	-.01	2
19	MP-11	X	-.011	.5
20	MP-11	X	-.009	2
21	MP-11	X	-.007	2
22	MP-12	X	-.013	.5
23	MP-12	X	-.006	2
24	MP-12	X	-.007	2
25	SF2-TH	X	-.015	1.5
26	M57	X	-.015	4
27	M34	X	-.004	1.5
28	MP-1	X	-.01	5.75
29	MP-2	X	-.01	5.75
30	MP-3	X	-.011	6.5
31	MP-4	X	-.013	6.5
32	MP-5	X	-.016	5.75
33	MP-6	X	-.016	5.75
34	MP-7	X	-.02	6.5
35	MP-8	X	-.021	6.5
36	MP-9	X	-.01	5.75
37	MP-10	X	-.01	5.75
38	MP-11	X	-.011	6.5
39	MP-12	X	-.013	6.5
40	MP-1	Z	.018	2
41	MP-2	Z	.018	2
42	MP-3	Z	.02	.5
43	MP-3	Z	.016	2
44	MP-3	Z	.012	2
45	MP-4	Z	.022	.5
46	MP-4	Z	.01	2
47	MP-4	Z	.012	2
48	MP-5	Z	.027	2
49	MP-6	Z	.027	2
50	MP-7	Z	.034	.5
51	MP-7	Z	.012	2
52	MP-7	Z	.009	2
53	MP-8	Z	.036	.5
54	MP-8	Z	.005	2
55	MP-8	Z	.01	2
56	MP-9	Z	.018	2
57	MP-10	Z	.018	2
58	MP-11	Z	.02	.5
59	MP-11	Z	.016	2
60	MP-11	Z	.012	2
61	MP-12	Z	.022	.5
62	MP-12	Z	.01	2
63	MP-12	Z	.012	2
64	SF2-TH	Z	.026	1.5
65	M57	Z	.026	4
66	M34	Z	.007	1.5
67	MP-1	Z	.018	5.75
68	MP-2	Z	.018	5.75
69	MP-3	Z	.02	6.5
70	MP-4	Z	.022	6.5
71	MP-5	Z	.027	5.75





Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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**Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
72	MP-6	Z	.027	5.75
73	MP-7	Z	.034	6.5
74	MP-8	Z	.036	6.5
75	MP-9	Z	.018	5.75
76	MP-10	Z	.018	5.75
77	MP-11	Z	.02	6.5
78	MP-12	Z	.022	6.5

**Member Point Loads (BLC 33 : 315 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.017	2
2	MP-2	X	-.017	2
3	MP-3	X	-.02	.5
4	MP-3	X	-.012	2
5	MP-3	X	-.009	2
6	MP-4	X	-.022	.5
7	MP-4	X	-.007	2
8	MP-4	X	-.009	2
9	MP-5	X	-.021	2
10	MP-6	X	-.021	2
11	MP-7	X	-.027	.5
12	MP-7	X	-.01	2
13	MP-7	X	-.008	2
14	MP-8	X	-.028	.5
15	MP-8	X	-.005	2
16	MP-8	X	-.008	2
17	MP-9	X	-.013	2
18	MP-10	X	-.013	2
19	MP-11	X	-.013	.5
20	MP-11	X	-.014	2
21	MP-11	X	-.011	2
22	MP-12	X	-.016	.5
23	MP-12	X	-.009	2
24	MP-12	X	-.01	2
25	SF2-TH	X	-.019	1.5
26	M57	X	-.019	4
27	M34	X	-.006	1.5
28	MP-1	X	-.017	5.75
29	MP-2	X	-.017	5.75
30	MP-3	X	-.02	6.5
31	MP-4	X	-.022	6.5
32	MP-5	X	-.021	5.75
33	MP-6	X	-.021	5.75
34	MP-7	X	-.027	6.5
35	MP-8	X	-.028	6.5
36	MP-9	X	-.013	5.75
37	MP-10	X	-.013	5.75
38	MP-11	X	-.013	6.5
39	MP-12	X	-.016	6.5
40	MP-1	Z	.017	2
41	MP-2	Z	.017	2
42	MP-3	Z	.02	.5
43	MP-3	Z	.012	2
44	MP-3	Z	.009	2
45	MP-4	Z	.022	.5
46	MP-4	Z	.007	2



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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**Member Point Loads (BLC 33 : 315 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
47	MP-4	Z	.009	2
48	MP-5	Z	.021	2
49	MP-6	Z	.021	2
50	MP-7	Z	.027	.5
51	MP-7	Z	.01	2
52	MP-7	Z	.008	2
53	MP-8	Z	.028	.5
54	MP-8	Z	.005	2
55	MP-8	Z	.008	2
56	MP-9	Z	.013	2
57	MP-10	Z	.013	2
58	MP-11	Z	.013	.5
59	MP-11	Z	.014	2
60	MP-11	Z	.011	2
61	MP-12	Z	.016	.5
62	MP-12	Z	.009	2
63	MP-12	Z	.01	2
64	SF2-TH	Z	.019	1.5
65	M57	Z	.019	4
66	M34	Z	.006	1.5
67	MP-1	Z	.017	5.75
68	MP-2	Z	.017	5.75
69	MP-3	Z	.02	6.5
70	MP-4	Z	.022	6.5
71	MP-5	Z	.021	5.75
72	MP-6	Z	.021	5.75
73	MP-7	Z	.027	6.5
74	MP-8	Z	.028	6.5
75	MP-9	Z	.013	5.75
76	MP-10	Z	.013	5.75
77	MP-11	Z	.013	6.5
78	MP-12	Z	.016	6.5

**Member Point Loads (BLC 34 : 330 Wind - Ice)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.024	2
2	MP-2	X	-.024	2
3	MP-3	X	-.029	.5
4	MP-3	X	-.013	2
5	MP-3	X	-.01	2
6	MP-4	X	-.031	.5
7	MP-4	X	-.007	2
8	MP-4	X	-.011	2
9	MP-5	X	-.024	2
10	MP-6	X	-.024	2
11	MP-7	X	-.029	.5
12	MP-7	X	-.013	2
13	MP-7	X	-.01	2
14	MP-8	X	-.031	.5
15	MP-8	X	-.007	2
16	MP-8	X	-.011	2
17	MP-9	X	-.015	2
18	MP-10	X	-.015	2
19	MP-11	X	-.015	.5
20	MP-11	X	-.018	2
21	MP-11	X	-.013	2



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**Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
22	MP-12	X	-0.18	.5
23	MP-12	X	-0.11	2
24	MP-12	X	-0.13	2
25	SF2-TH	X	-.02	1.5
26	M57	X	-.02	4
27	M34	X	-.007	1.5
28	MP-1	X	-.024	5.75
29	MP-2	X	-.024	5.75
30	MP-3	X	-.029	6.5
31	MP-4	X	-.031	6.5
32	MP-5	X	-.024	5.75
33	MP-6	X	-.024	5.75
34	MP-7	X	-.029	6.5
35	MP-8	X	-.031	6.5
36	MP-9	X	-.015	5.75
37	MP-10	X	-.015	5.75
38	MP-11	X	-.015	6.5
39	MP-12	X	-.018	6.5
40	MP-1	Z	.014	2
41	MP-2	Z	.014	2
42	MP-3	Z	.017	.5
43	MP-3	Z	.008	2
44	MP-3	Z	.006	2
45	MP-4	Z	.018	.5
46	MP-4	Z	.004	2
47	MP-4	Z	.006	2
48	MP-5	Z	.014	2
49	MP-6	Z	.014	2
50	MP-7	Z	.017	.5
51	MP-7	Z	.008	2
52	MP-7	Z	.006	2
53	MP-8	Z	.018	.5
54	MP-8	Z	.004	2
55	MP-8	Z	.006	2
56	MP-9	Z	.009	2
57	MP-10	Z	.009	2
58	MP-11	Z	.008	.5
59	MP-11	Z	.01	2
60	MP-11	Z	.008	2
61	MP-12	Z	.01	.5
62	MP-12	Z	.006	2
63	MP-12	Z	.007	2
64	SF2-TH	Z	.012	1.5
65	M57	Z	.012	4
66	M34	Z	.004	1.5
67	MP-1	Z	.014	5.75
68	MP-2	Z	.014	5.75
69	MP-3	Z	.017	6.5
70	MP-4	Z	.018	6.5
71	MP-5	Z	.014	5.75
72	MP-6	Z	.014	5.75
73	MP-7	Z	.017	6.5
74	MP-8	Z	.018	6.5
75	MP-9	Z	.009	5.75
76	MP-10	Z	.009	5.75
77	MP-11	Z	.008	6.5
78	MP-12	Z	.01	6.5



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**Member Point Loads (BLC 37 : Seismic Load X)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.025	2
2	MP-2	X	-.025	2
3	MP-3	X	-.03	.5
4	MP-3	X	-.053	2
5	MP-3	X	-.059	2
6	MP-4	X	-.04	.5
7	MP-4	X	-.043	2
8	MP-4	X	-.071	2
9	MP-5	X	-.025	2
10	MP-6	X	-.025	2
11	MP-7	X	-.03	.5
12	MP-7	X	-.053	2
13	MP-7	X	-.059	2
14	MP-8	X	-.04	.5
15	MP-8	X	-.043	2
16	MP-8	X	-.071	2
17	MP-9	X	-.025	2
18	MP-10	X	-.025	2
19	MP-11	X	-.03	.5
20	MP-11	X	-.053	2
21	MP-11	X	-.059	2
22	MP-12	X	-.04	.5
23	MP-12	X	-.043	2
24	MP-12	X	-.071	2
25	SF2-TH	X	-.026	1.5
26	M57	X	-.026	4
27	M34	X	-.026	1.5
28	MP-1	X	-.025	5.75
29	MP-2	X	-.025	5.75
30	MP-3	X	-.03	6.5
31	MP-4	X	-.04	6.5
32	MP-5	X	-.025	5.75
33	MP-6	X	-.025	5.75
34	MP-7	X	-.03	6.5
35	MP-8	X	-.04	6.5
36	MP-9	X	-.025	5.75
37	MP-10	X	-.025	5.75
38	MP-11	X	-.03	6.5
39	MP-12	X	-.04	6.5

**Member Point Loads (BLC 38 : Seismic Load Z)**

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-.025	2
2	MP-2	Z	-.025	2
3	MP-3	Z	-.03	.5
4	MP-3	Z	-.053	2
5	MP-3	Z	-.059	2
6	MP-4	Z	-.04	.5
7	MP-4	Z	-.043	2
8	MP-4	Z	-.071	2
9	MP-5	Z	-.025	2
10	MP-6	Z	-.025	2
11	MP-7	Z	-.03	.5
12	MP-7	Z	-.053	2
13	MP-7	Z	-.059	2
14	MP-8	Z	-.04	.5



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**Member Point Loads (BLC 38 : Seismic Load Z) (Continued)**

Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]	
15	MP-8	Z	-0.43	2
16	MP-8	Z	-0.71	2
17	MP-9	Z	-0.25	2
18	MP-10	Z	-0.25	2
19	MP-11	Z	-0.03	.5
20	MP-11	Z	-0.053	2
21	MP-11	Z	-0.059	2
22	MP-12	Z	-0.04	.5
23	MP-12	Z	-0.43	2
24	MP-12	Z	-0.71	2
25	SF2-TH	Z	-0.26	1.5
26	M57	Z	-0.26	4
27	M34	Z	-0.26	1.5
28	MP-1	Z	-0.25	5.75
29	MP-2	Z	-0.25	5.75
30	MP-3	Z	-0.03	6.5
31	MP-4	Z	-0.04	6.5
32	MP-5	Z	-0.25	5.75
33	MP-6	Z	-0.25	5.75
34	MP-7	Z	-0.03	6.5
35	MP-8	Z	-0.04	6.5
36	MP-9	Z	-0.25	5.75
37	MP-10	Z	-0.25	5.75
38	MP-11	Z	-0.03	6.5
39	MP-12	Z	-0.04	6.5

**Member Distributed Loads (BLC 2 : 0 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-0.009	-0.009	0	%100
2	FFTH2	X	-0.009	-0.009	0	%100
3	FFTH3	X	-0.009	-0.009	0	%100
4	FFBH1	X	-0.009	-0.009	0	%100
5	FFBH2	X	-0.009	-0.009	0	%100
6	FFBH3	X	-0.009	-0.009	0	%100
7	MP-1	X	-0.009	-0.009	0	%100
8	MP-2	X	-0.009	-0.009	0	%100
9	MP-3	X	-0.009	-0.009	0	%100
10	MP-4	X	-0.009	-0.009	0	%100
11	SF2-TH	X	-0.006	-0.006	0	%100
12	SF2-BH	X	-0.006	-0.006	0	%100
13	SF2-V1	X	-0.003	-0.003	0	%100
14	SF2-V2	X	-0.003	-0.003	0	%100
15	SF2-D1	X	-0.003	-0.003	0	%100
16	SF3-TH	X	-0.006	-0.006	0	%100
17	SF3-BH	X	-0.006	-0.006	0	%100
18	SF3-V1	X	-0.003	-0.003	0	%100
19	SF3-V2	X	-0.003	-0.003	0	%100
20	SF3-D1	X	-0.003	-0.003	0	%100
21	BC-TH	X	-0.003	-0.003	0	%100
22	BC-BH	X	-0.003	-0.003	0	%100
23	SA-1	X	-0.003	-0.003	0	%100
24	M24	X	-0.004	-0.004	0	%100
25	M25	X	-0.004	-0.004	0	%100
26	M26	X	-0.004	-0.004	0	%100
27	M27	X	-0.004	-0.004	0	%100



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**Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
28	M28	X	-0.004	-0.004	0	%100
29	M29	X	-0.004	-0.004	0	%100
30	MP-9	X	-0.009	-0.009	0	%100
31	MP-10	X	-0.009	-0.009	0	%100
32	MP-11	X	-0.009	-0.009	0	%100
33	MP-12	X	-0.009	-0.009	0	%100
34	M34	X	-0.00367	-0.00367	0	%100
35	M35	X	-0.00367	-0.00367	0	%100
36	M36	X	-0.003	-0.003	0	%100
37	M37	X	-0.003	-0.003	0	%100
38	M38	X	-0.003	-0.003	0	%100
39	M39	X	-0.007	-0.007	0	%100
40	M40	X	-0.007	-0.007	0	%100
41	M41	X	-0.003	-0.003	0	%100
42	M42	X	-0.003	-0.003	0	%100
43	M43	X	-0.003	-0.003	0	%100
44	M44	X	-0.001	-0.001	0	%100
45	M45	X	-0.001	-0.001	0	%100
46	M46	X	-0.007	-0.007	0	%100
47	M47	X	-0.004	-0.004	0	%100
48	M48	X	-0.004	-0.004	0	%100
49	M49	X	-0.004	-0.004	0	%100
50	M50	X	-0.004	-0.004	0	%100
51	M51	X	-0.004	-0.004	0	%100
52	M52	X	-0.004	-0.004	0	%100
53	MP-5	X	-0.009	-0.009	0	%100
54	MP-6	X	-0.009	-0.009	0	%100
55	MP-7	X	-0.009	-0.009	0	%100
56	MP-8	X	-0.009	-0.009	0	%100
57	M57	X	-0.007	-0.007	0	%100
58	M58	X	-0.007	-0.007	0	%100
59	M59	X	-0.003	-0.003	0	%100
60	M60	X	-0.003	-0.003	0	%100
61	M61	X	-0.003	-0.003	0	%100
62	M62	X	-0.00367	-0.00367	0	%100
63	M63	X	-0.00367	-0.00367	0	%100
64	M64	X	-0.003	-0.003	0	%100
65	M65	X	-0.003	-0.003	0	%100
66	M66	X	-0.003	-0.003	0	%100
67	M67	X	-0.001	-0.001	0	%100
68	M68	X	-0.001	-0.001	0	%100
69	M69	X	-0.003	-0.003	0	%100
70	Mast	X	-0.009	-0.009	0	%100
71	M71	X	-0.009	-0.009	0	%100
72	M72	X	-0.009	-0.009	0	%100

**Member Distributed Loads (BLC 3 : 30 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-0.006	-0.006	0	%100
2	FFTH2	X	-0.006	-0.006	0	%100
3	FFTH3	X	-0.006	-0.006	0	%100
4	FFBH1	X	-0.006	-0.006	0	%100
5	FFBH2	X	-0.006	-0.006	0	%100
6	FFBH3	X	-0.006	-0.006	0	%100
7	MP-1	X	-0.007	-0.007	0	%100
8	MP-2	X	-0.007	-0.007	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
9	MP-3	X	-0.07	-0.07	0	%100
10	MP-4	X	-0.07	-0.07	0	%100
11	SF2-TH	X	-0.06	-0.06	0	%100
12	SF2-BH	X	-0.06	-0.06	0	%100
13	SF2-V1	X	-0.02	-0.02	0	%100
14	SF2-V2	X	-0.02	-0.02	0	%100
15	SF2-D1	X	-0.02	-0.02	0	%100
16	SF3-TH	X	-0.03	-0.03	0	%100
17	SF3-BH	X	-0.03	-0.03	0	%100
18	SF3-V1	X	-0.02	-0.02	0	%100
19	SF3-V2	X	-0.02	-0.02	0	%100
20	SF3-D1	X	-0.02	-0.02	0	%100
21	BC-TH	X	-0.03	-0.03	0	%100
22	BC-BH	X	-0.03	-0.03	0	%100
23	SA-1	X	0	0	0	%100
24	M24	X	-0.06	-0.06	0	%100
25	M25	X	-0.06	-0.06	0	%100
26	M26	X	-0.06	-0.06	0	%100
27	M27	X	-0.06	-0.06	0	%100
28	M28	X	-0.06	-0.06	0	%100
29	M29	X	-0.06	-0.06	0	%100
30	MP-9	X	-0.07	-0.07	0	%100
31	MP-10	X	-0.07	-0.07	0	%100
32	MP-11	X	-0.07	-0.07	0	%100
33	MP-12	X	-0.07	-0.07	0	%100
34	M34	X	-0.02	-0.02	0	%100
35	M35	X	-0.02	-0.02	0	%100
36	M36	X	-0.02	-0.02	0	%100
37	M37	X	-0.02	-0.02	0	%100
38	M38	X	-0.02	-0.02	0	%100
39	M39	X	-0.07	-0.07	0	%100
40	M40	X	-0.07	-0.07	0	%100
41	M41	X	-0.02	-0.02	0	%100
42	M42	X	-0.02	-0.02	0	%100
43	M43	X	-0.02	-0.02	0	%100
44	M44	X	-0.02	-0.02	0	%100
45	M45	X	-0.02	-0.02	0	%100
46	M46	X	-0.05	-0.05	0	%100
47	M47	X	0	0	0	%100
48	M48	X	0	0	0	%100
49	M49	X	0	0	0	%100
50	M50	X	0	0	0	%100
51	M51	X	0	0	0	%100
52	M52	X	0	0	0	%100
53	MP-5	X	-0.07	-0.07	0	%100
54	MP-6	X	-0.07	-0.07	0	%100
55	MP-7	X	-0.07	-0.07	0	%100
56	MP-8	X	-0.07	-0.07	0	%100
57	M57	X	-0.04	-0.04	0	%100
58	M58	X	-0.04	-0.04	0	%100
59	M59	X	-0.02	-0.02	0	%100
60	M60	X	-0.02	-0.02	0	%100
61	M61	X	-0.02	-0.02	0	%100
62	M62	X	-0.02	-0.02	0	%100
63	M63	X	-0.02	-0.02	0	%100
64	M64	X	-0.02	-0.02	0	%100
65	M65	X	-0.02	-0.02	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

Apr 7, 2020  
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 Checked By: GHM

**Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
66	M66	X	-0.02	-0.02	0	%100
67	M67	X	0	0	0	%100
68	M68	X	0	0	0	%100
69	M69	X	-0.04	-0.04	0	%100
70	Mast	X	-0.08	-0.08	0	%100
71	M71	X	-0.08	-0.08	0	%100
72	M72	X	-0.08	-0.08	0	%100
73	FFTH1	Z	-0.04	-0.04	0	%100
74	FFTH2	Z	-0.04	-0.04	0	%100
75	FFTH3	Z	-0.04	-0.04	0	%100
76	FFBH1	Z	-0.04	-0.04	0	%100
77	FFBH2	Z	-0.04	-0.04	0	%100
78	FFBH3	Z	-0.04	-0.04	0	%100
79	MP-1	Z	-0.04	-0.04	0	%100
80	MP-2	Z	-0.04	-0.04	0	%100
81	MP-3	Z	-0.04	-0.04	0	%100
82	MP-4	Z	-0.04	-0.04	0	%100
83	SF2-TH	Z	-0.03	-0.03	0	%100
84	SF2-BH	Z	-0.03	-0.03	0	%100
85	SF2-V1	Z	-0.01	-0.01	0	%100
86	SF2-V2	Z	-0.01	-0.01	0	%100
87	SF2-D1	Z	-0.01	-0.01	0	%100
88	SF3-TH	Z	-0.01	-0.01	0	%100
89	SF3-BH	Z	-0.01	-0.01	0	%100
90	SF3-V1	Z	-0.01	-0.01	0	%100
91	SF3-V2	Z	-0.01	-0.01	0	%100
92	SF3-D1	Z	-0.01	-0.01	0	%100
93	BC-TH	Z	-0.01	-0.01	0	%100
94	BC-BH	Z	-0.01	-0.01	0	%100
95	SA-1	Z	0	0	0	%100
96	M24	Z	-0.04	-0.04	0	%100
97	M25	Z	-0.04	-0.04	0	%100
98	M26	Z	-0.04	-0.04	0	%100
99	M27	Z	-0.04	-0.04	0	%100
100	M28	Z	-0.04	-0.04	0	%100
101	M29	Z	-0.04	-0.04	0	%100
102	MP-9	Z	-0.04	-0.04	0	%100
103	MP-10	Z	-0.04	-0.04	0	%100
104	MP-11	Z	-0.04	-0.04	0	%100
105	MP-12	Z	-0.04	-0.04	0	%100
106	M34	Z	-0.02	-0.02	0	%100
107	M35	Z	-0.02	-0.02	0	%100
108	M36	Z	-0.01	-0.01	0	%100
109	M37	Z	-0.01	-0.01	0	%100
110	M38	Z	-0.01	-0.01	0	%100
111	M39	Z	-0.03	-0.03	0	%100
112	M40	Z	-0.03	-0.03	0	%100
113	M41	Z	-0.01	-0.01	0	%100
114	M42	Z	-0.01	-0.01	0	%100
115	M43	Z	-0.01	-0.01	0	%100
116	M44	Z	-0.01	-0.01	0	%100
117	M45	Z	-0.01	-0.01	0	%100
118	M46	Z	-0.03	-0.03	0	%100
119	M47	Z	0	0	0	%100
120	M48	Z	0	0	0	%100
121	M49	Z	0	0	0	%100
122	M50	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 3 : 30 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
123	M51	Z	0	0	%100
124	M52	Z	0	0	%100
125	MP-5	Z	-0.04	-0.04	%100
126	MP-6	Z	-0.04	-0.04	%100
127	MP-7	Z	-0.04	-0.04	%100
128	MP-8	Z	-0.04	-0.04	%100
129	M57	Z	-0.02	-0.02	%100
130	M58	Z	-0.02	-0.02	%100
131	M59	Z	-0.01	-0.01	%100
132	M60	Z	-0.01	-0.01	%100
133	M61	Z	-0.01	-0.01	%100
134	M62	Z	-0.02	-0.02	%100
135	M63	Z	-0.02	-0.02	%100
136	M64	Z	-0.01	-0.01	%100
137	M65	Z	-0.01	-0.01	%100
138	M66	Z	-0.01	-0.01	%100
139	M67	Z	0	0	%100
140	M68	Z	0	0	%100
141	M69	Z	-0.03	-0.03	%100
142	Mast	Z	-0.05	-0.05	%100
143	M71	Z	-0.05	-0.05	%100
144	M72	Z	-0.05	-0.05	%100

**Member Distributed Loads (BLC 4 : 45 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	FFTH1	X	-0.04	-0.04	%100
2	FFTH2	X	-0.04	-0.04	%100
3	FFTH3	X	-0.04	-0.04	%100
4	FFBH1	X	-0.04	-0.04	%100
5	FFBH2	X	-0.04	-0.04	%100
6	FFBH3	X	-0.04	-0.04	%100
7	MP-1	X	-0.06	-0.06	%100
8	MP-2	X	-0.06	-0.06	%100
9	MP-3	X	-0.06	-0.06	%100
10	MP-4	X	-0.06	-0.06	%100
11	SF2-TH	X	-0.05	-0.05	%100
12	SF2-BH	X	-0.05	-0.05	%100
13	SF2-V1	X	-0.02	-0.02	%100
14	SF2-V2	X	-0.02	-0.02	%100
15	SF2-D1	X	-0.02	-0.02	%100
16	SF3-TH	X	-0.00977	-0.00977	%100
17	SF3-BH	X	-0.00977	-0.00977	%100
18	SF3-V1	X	-0.02	-0.02	%100
19	SF3-V2	X	-0.02	-0.02	%100
20	SF3-D1	X	-0.02	-0.02	%100
21	BC-TH	X	-0.02	-0.02	%100
22	BC-BH	X	-0.02	-0.02	%100
23	SA-1	X	-0.01	-0.01	%100
24	M24	X	-0.06	-0.06	%100
25	M25	X	-0.06	-0.06	%100
26	M26	X	-0.06	-0.06	%100
27	M27	X	-0.06	-0.06	%100
28	M28	X	-0.06	-0.06	%100
29	M29	X	-0.06	-0.06	%100
30	MP-9	X	-0.06	-0.06	%100
31	MP-10	X	-0.06	-0.06	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
32	MP-11	X	-0.06	-0.06	%100
33	MP-12	X	-0.06	-0.06	%100
34	M34	X	-0.02	-0.02	%100
35	M35	X	-0.02	-0.02	%100
36	M36	X	-0.02	-0.02	%100
37	M37	X	-0.02	-0.02	%100
38	M38	X	-0.02	-0.02	%100
39	M39	X	-0.05	-0.05	%100
40	M40	X	-0.05	-0.05	%100
41	M41	X	-0.02	-0.02	%100
42	M42	X	-0.02	-0.02	%100
43	M43	X	-0.02	-0.02	%100
44	M44	X	-0.02	-0.02	%100
45	M45	X	-0.02	-0.02	%100
46	M46	X	-0.04	-0.04	%100
47	M47	X	-0.02	-0.02	%100
48	M48	X	-0.02	-0.02	%100
49	M49	X	-0.02	-0.02	%100
50	M50	X	-0.02	-0.02	%100
51	M51	X	-0.02	-0.02	%100
52	M52	X	-0.02	-0.02	%100
53	MP-5	X	-0.06	-0.06	%100
54	MP-6	X	-0.06	-0.06	%100
55	MP-7	X	-0.06	-0.06	%100
56	MP-8	X	-0.06	-0.06	%100
57	M57	X	-0.02	-0.02	%100
58	M58	X	-0.02	-0.02	%100
59	M59	X	-0.02	-0.02	%100
60	M60	X	-0.02	-0.02	%100
61	M61	X	-0.02	-0.02	%100
62	M62	X	-0.03	-0.03	%100
63	M63	X	-0.03	-0.03	%100
64	M64	X	-0.02	-0.02	%100
65	M65	X	-0.02	-0.02	%100
66	M66	X	-0.02	-0.02	%100
67	M67	X	-0.00509	-0.00509	%100
68	M68	X	-0.00509	-0.00509	%100
69	M69	X	-0.04	-0.04	%100
70	Mast	X	-0.07	-0.07	%100
71	M71	X	-0.07	-0.07	%100
72	M72	X	-0.07	-0.07	%100
73	FFTH1	Z	-0.04	-0.04	%100
74	FFTH2	Z	-0.04	-0.04	%100
75	FFTH3	Z	-0.04	-0.04	%100
76	FFBH1	Z	-0.04	-0.04	%100
77	FFBH2	Z	-0.04	-0.04	%100
78	FFBH3	Z	-0.04	-0.04	%100
79	MP-1	Z	-0.06	-0.06	%100
80	MP-2	Z	-0.06	-0.06	%100
81	MP-3	Z	-0.06	-0.06	%100
82	MP-4	Z	-0.06	-0.06	%100
83	SF2-TH	Z	-0.05	-0.05	%100
84	SF2-BH	Z	-0.05	-0.05	%100
85	SF2-V1	Z	-0.02	-0.02	%100
86	SF2-V2	Z	-0.02	-0.02	%100
87	SF2-D1	Z	-0.02	-0.02	%100
88	SF3-TH	Z	-0.00858	-0.00858	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 4 : 45 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
89	SF3-BH	Z	-0.00858	-0.00858	0	%100
90	SF3-V1	Z	-0.002	-0.002	0	%100
91	SF3-V2	Z	-0.002	-0.002	0	%100
92	SF3-D1	Z	-0.002	-0.002	0	%100
93	BC-TH	Z	-0.002	-0.002	0	%100
94	BC-BH	Z	-0.002	-0.002	0	%100
95	SA-1	Z	-0.001	-0.001	0	%100
96	M24	Z	-0.006	-0.006	0	%100
97	M25	Z	-0.006	-0.006	0	%100
98	M26	Z	-0.006	-0.006	0	%100
99	M27	Z	-0.006	-0.006	0	%100
100	M28	Z	-0.006	-0.006	0	%100
101	M29	Z	-0.006	-0.006	0	%100
102	MP-9	Z	-0.006	-0.006	0	%100
103	MP-10	Z	-0.006	-0.006	0	%100
104	MP-11	Z	-0.006	-0.006	0	%100
105	MP-12	Z	-0.006	-0.006	0	%100
106	M34	Z	-0.004	-0.004	0	%100
107	M35	Z	-0.004	-0.004	0	%100
108	M36	Z	-0.002	-0.002	0	%100
109	M37	Z	-0.002	-0.002	0	%100
110	M38	Z	-0.002	-0.002	0	%100
111	M39	Z	-0.004	-0.004	0	%100
112	M40	Z	-0.004	-0.004	0	%100
113	M41	Z	-0.002	-0.002	0	%100
114	M42	Z	-0.002	-0.002	0	%100
115	M43	Z	-0.002	-0.002	0	%100
116	M44	Z	-0.002	-0.002	0	%100
117	M45	Z	-0.002	-0.002	0	%100
118	M46	Z	-0.004	-0.004	0	%100
119	M47	Z	-0.002	-0.002	0	%100
120	M48	Z	-0.002	-0.002	0	%100
121	M49	Z	-0.002	-0.002	0	%100
122	M50	Z	-0.002	-0.002	0	%100
123	M51	Z	-0.002	-0.002	0	%100
124	M52	Z	-0.002	-0.002	0	%100
125	MP-5	Z	-0.006	-0.006	0	%100
126	MP-6	Z	-0.006	-0.006	0	%100
127	MP-7	Z	-0.006	-0.006	0	%100
128	MP-8	Z	-0.006	-0.006	0	%100
129	M57	Z	-0.001	-0.001	0	%100
130	M58	Z	-0.001	-0.001	0	%100
131	M59	Z	-0.002	-0.002	0	%100
132	M60	Z	-0.002	-0.002	0	%100
133	M61	Z	-0.002	-0.002	0	%100
134	M62	Z	-0.004	-0.004	0	%100
135	M63	Z	-0.004	-0.004	0	%100
136	M64	Z	-0.002	-0.002	0	%100
137	M65	Z	-0.002	-0.002	0	%100
138	M66	Z	-0.002	-0.002	0	%100
139	M67	Z	-0.0059	-0.0059	0	%100
140	M68	Z	-0.0059	-0.0059	0	%100
141	M69	Z	-0.005	-0.005	0	%100
142	Mast	Z	-0.007	-0.007	0	%100
143	M71	Z	-0.007	-0.007	0	%100
144	M72	Z	-0.007	-0.007	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

Apr 7, 2020  
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 Checked By: GMM

**Member Distributed Loads (BLC 5 : 60 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-0.002	-0.002	0	%100
2	FFTH2	X	-0.002	-0.002	0	%100
3	FFTH3	X	-0.002	-0.002	0	%100
4	FFBH1	X	-0.002	-0.002	0	%100
5	FFBH2	X	-0.002	-0.002	0	%100
6	FFBH3	X	-0.002	-0.002	0	%100
7	MP-1	X	-0.004	-0.004	0	%100
8	MP-2	X	-0.004	-0.004	0	%100
9	MP-3	X	-0.004	-0.004	0	%100
10	MP-4	X	-0.004	-0.004	0	%100
11	SF2-TH	X	-0.003	-0.003	0	%100
12	SF2-BH	X	-0.003	-0.003	0	%100
13	SF2-V1	X	-0.001	-0.001	0	%100
14	SF2-V2	X	-0.001	-0.001	0	%100
15	SF2-D1	X	-0.001	-0.001	0	%100
16	SF3-TH	X	-0.00273	-0.00273	0	%100
17	SF3-BH	X	-0.00273	-0.00273	0	%100
18	SF3-V1	X	-0.001	-0.001	0	%100
19	SF3-V2	X	-0.001	-0.001	0	%100
20	SF3-D1	X	-0.001	-0.001	0	%100
21	BC-TH	X	-0.00845	-0.00845	0	%100
22	BC-BH	X	-0.00845	-0.00845	0	%100
23	SA-1	X	-0.001	-0.001	0	%100
24	M24	X	-0.004	-0.004	0	%100
25	M25	X	-0.004	-0.004	0	%100
26	M26	X	-0.004	-0.004	0	%100
27	M27	X	-0.004	-0.004	0	%100
28	M28	X	-0.004	-0.004	0	%100
29	M29	X	-0.004	-0.004	0	%100
30	MP-9	X	-0.004	-0.004	0	%100
31	MP-10	X	-0.004	-0.004	0	%100
32	MP-11	X	-0.004	-0.004	0	%100
33	MP-12	X	-0.004	-0.004	0	%100
34	M34	X	-0.002	-0.002	0	%100
35	M35	X	-0.002	-0.002	0	%100
36	M36	X	-0.001	-0.001	0	%100
37	M37	X	-0.001	-0.001	0	%100
38	M38	X	-0.001	-0.001	0	%100
39	M39	X	-0.003	-0.003	0	%100
40	M40	X	-0.003	-0.003	0	%100
41	M41	X	-0.001	-0.001	0	%100
42	M42	X	-0.001	-0.001	0	%100
43	M43	X	-0.001	-0.001	0	%100
44	M44	X	-0.001	-0.001	0	%100
45	M45	X	-0.001	-0.001	0	%100
46	M46	X	-0.002	-0.002	0	%100
47	M47	X	-0.002	-0.002	0	%100
48	M48	X	-0.002	-0.002	0	%100
49	M49	X	-0.002	-0.002	0	%100
50	M50	X	-0.002	-0.002	0	%100
51	M51	X	-0.002	-0.002	0	%100
52	M52	X	-0.002	-0.002	0	%100
53	MP-5	X	-0.004	-0.004	0	%100
54	MP-6	X	-0.004	-0.004	0	%100
55	MP-7	X	-0.004	-0.004	0	%100
56	MP-8	X	-0.004	-0.004	0	%100
57	M57	X	-0.00282	-0.00282	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
58	M58	X	-0.00282	-0.00282	0 %100
59	M59	X	-0.001	-0.001	0 %100
60	M60	X	-0.001	-0.001	0 %100
61	M61	X	-0.001	-0.001	0 %100
62	M62	X	-0.002	-0.002	0 %100
63	M63	X	-0.002	-0.002	0 %100
64	M64	X	-0.001	-0.001	0 %100
65	M65	X	-0.001	-0.001	0 %100
66	M66	X	-0.001	-0.001	0 %100
67	M67	X	-0.000696	-0.000696	0 %100
68	M68	X	-0.000696	-0.000696	0 %100
69	M69	X	-0.003	-0.003	0 %100
70	Mast	X	-0.005	-0.005	0 %100
71	M71	X	-0.005	-0.005	0 %100
72	M72	X	-0.005	-0.005	0 %100
73	FFTH1	Z	-0.004	-0.004	0 %100
74	FFTH2	Z	-0.004	-0.004	0 %100
75	FFTH3	Z	-0.004	-0.004	0 %100
76	FFBH1	Z	-0.004	-0.004	0 %100
77	FFBH2	Z	-0.004	-0.004	0 %100
78	FFBH3	Z	-0.004	-0.004	0 %100
79	MP-1	Z	-0.007	-0.007	0 %100
80	MP-2	Z	-0.007	-0.007	0 %100
81	MP-3	Z	-0.007	-0.007	0 %100
82	MP-4	Z	-0.007	-0.007	0 %100
83	SF2-TH	Z	-0.005	-0.005	0 %100
84	SF2-BH	Z	-0.005	-0.005	0 %100
85	SF2-V1	Z	-0.002	-0.002	0 %100
86	SF2-V2	Z	-0.002	-0.002	0 %100
87	SF2-D1	Z	-0.002	-0.002	0 %100
88	SF3-TH	Z	-0.000415	-0.000415	0 %100
89	SF3-BH	Z	-0.000415	-0.000415	0 %100
90	SF3-V1	Z	-0.002	-0.002	0 %100
91	SF3-V2	Z	-0.002	-0.002	0 %100
92	SF3-D1	Z	-0.002	-0.002	0 %100
93	BC-TH	Z	-0.001	-0.001	0 %100
94	BC-BH	Z	-0.001	-0.001	0 %100
95	SA-1	Z	-0.003	-0.003	0 %100
96	M24	Z	-0.007	-0.007	0 %100
97	M25	Z	-0.007	-0.007	0 %100
98	M26	Z	-0.007	-0.007	0 %100
99	M27	Z	-0.007	-0.007	0 %100
100	M28	Z	-0.007	-0.007	0 %100
101	M29	Z	-0.007	-0.007	0 %100
102	MP-9	Z	-0.007	-0.007	0 %100
103	MP-10	Z	-0.007	-0.007	0 %100
104	MP-11	Z	-0.007	-0.007	0 %100
105	MP-12	Z	-0.007	-0.007	0 %100
106	M34	Z	-0.006	-0.006	0 %100
107	M35	Z	-0.006	-0.006	0 %100
108	M36	Z	-0.002	-0.002	0 %100
109	M37	Z	-0.002	-0.002	0 %100
110	M38	Z	-0.002	-0.002	0 %100
111	M39	Z	-0.004	-0.004	0 %100
112	M40	Z	-0.004	-0.004	0 %100
113	M41	Z	-0.002	-0.002	0 %100
114	M42	Z	-0.002	-0.002	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

Apr 7, 2020  
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**Member Distributed Loads (BLC 5 : 60 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
115	M43	Z	-0.002	-0.002	0 %100
116	M44	Z	-0.003	-0.003	0 %100
117	M45	Z	-0.003	-0.003	0 %100
118	M46	Z	-0.003	-0.003	0 %100
119	M47	Z	-0.004	-0.004	0 %100
120	M48	Z	-0.004	-0.004	0 %100
121	M49	Z	-0.004	-0.004	0 %100
122	M50	Z	-0.004	-0.004	0 %100
123	M51	Z	-0.004	-0.004	0 %100
124	M52	Z	-0.004	-0.004	0 %100
125	MP-5	Z	-0.007	-0.007	0 %100
126	MP-6	Z	-0.007	-0.007	0 %100
127	MP-7	Z	-0.007	-0.007	0 %100
128	MP-8	Z	-0.007	-0.007	0 %100
129	M57	Z	-0.000387	-0.000387	0 %100
130	M58	Z	-0.000387	-0.000387	0 %100
131	M59	Z	-0.002	-0.002	0 %100
132	M60	Z	-0.002	-0.002	0 %100
133	M61	Z	-0.002	-0.002	0 %100
134	M62	Z	-0.006	-0.006	0 %100
135	M63	Z	-0.006	-0.006	0 %100
136	M64	Z	-0.002	-0.002	0 %100
137	M65	Z	-0.002	-0.002	0 %100
138	M66	Z	-0.002	-0.002	0 %100
139	M67	Z	-0.001	-0.001	0 %100
140	M68	Z	-0.001	-0.001	0 %100
141	M69	Z	-0.006	-0.006	0 %100
142	Mast	Z	-0.008	-0.008	0 %100
143	M71	Z	-0.008	-0.008	0 %100
144	M72	Z	-0.008	-0.008	0 %100

**Member Distributed Loads (BLC 6 : 90 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	FFTH1	Z	0	0	0 %100
2	FFTH2	Z	0	0	0 %100
3	FFTH3	Z	0	0	0 %100
4	FFBH1	Z	0	0	0 %100
5	FFBH2	Z	0	0	0 %100
6	FFBH3	Z	0	0	0 %100
7	MP-1	Z	-0.009	-0.009	0 %100
8	MP-2	Z	-0.009	-0.009	0 %100
9	MP-3	Z	-0.009	-0.009	0 %100
10	MP-4	Z	-0.009	-0.009	0 %100
11	SF2-TH	Z	-0.004	-0.004	0 %100
12	SF2-BH	Z	-0.004	-0.004	0 %100
13	SF2-V1	Z	-0.003	-0.003	0 %100
14	SF2-V2	Z	-0.003	-0.003	0 %100
15	SF2-D1	Z	-0.003	-0.003	0 %100
16	SF3-TH	Z	-0.004	-0.004	0 %100
17	SF3-BH	Z	-0.004	-0.004	0 %100
18	SF3-V1	Z	-0.003	-0.003	0 %100
19	SF3-V2	Z	-0.003	-0.003	0 %100
20	SF3-D1	Z	-0.003	-0.003	0 %100
21	BC-TH	Z	0	0	0 %100
22	BC-BH	Z	0	0	0 %100
23	SA-1	Z	-0.006	-0.006	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 6 : 90 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
24	M24	Z	-0.07	-0.07	0	%100
25	M25	Z	-0.07	-0.07	0	%100
26	M26	Z	-0.07	-0.07	0	%100
27	M27	Z	-0.07	-0.07	0	%100
28	M28	Z	-0.07	-0.07	0	%100
29	M29	Z	-0.07	-0.07	0	%100
30	MP-9	Z	-0.009	-0.009	0	%100
31	MP-10	Z	-0.009	-0.009	0	%100
32	MP-11	Z	-0.009	-0.009	0	%100
33	MP-12	Z	-0.009	-0.009	0	%100
34	M34	Z	-0.008	-0.008	0	%100
35	M35	Z	-0.008	-0.008	0	%100
36	M36	Z	-0.003	-0.003	0	%100
37	M37	Z	-0.003	-0.003	0	%100
38	M38	Z	-0.003	-0.003	0	%100
39	M39	Z	-0.003	-0.003	0	%100
40	M40	Z	-0.003	-0.003	0	%100
41	M41	Z	-0.003	-0.003	0	%100
42	M42	Z	-0.003	-0.003	0	%100
43	M43	Z	-0.003	-0.003	0	%100
44	M44	Z	-0.003	-0.003	0	%100
45	M45	Z	-0.003	-0.003	0	%100
46	M46	Z	0	0	0	%100
47	M47	Z	-0.007	-0.007	0	%100
48	M48	Z	-0.007	-0.007	0	%100
49	M49	Z	-0.007	-0.007	0	%100
50	M50	Z	-0.007	-0.007	0	%100
51	M51	Z	-0.007	-0.007	0	%100
52	M52	Z	-0.007	-0.007	0	%100
53	MP-5	Z	-0.009	-0.009	0	%100
54	MP-6	Z	-0.009	-0.009	0	%100
55	MP-7	Z	-0.009	-0.009	0	%100
56	MP-8	Z	-0.009	-0.009	0	%100
57	M57	Z	-0.003	-0.003	0	%100
58	M58	Z	-0.003	-0.003	0	%100
59	M59	Z	-0.003	-0.003	0	%100
60	M60	Z	-0.003	-0.003	0	%100
61	M61	Z	-0.003	-0.003	0	%100
62	M62	Z	-0.008	-0.008	0	%100
63	M63	Z	-0.008	-0.008	0	%100
64	M64	Z	-0.003	-0.003	0	%100
65	M65	Z	-0.003	-0.003	0	%100
66	M66	Z	-0.003	-0.003	0	%100
67	M67	Z	-0.003	-0.003	0	%100
68	M68	Z	-0.003	-0.003	0	%100
69	M69	Z	-0.006	-0.006	0	%100
70	Mast	Z	-0.009	-0.009	0	%100
71	M71	Z	-0.009	-0.009	0	%100
72	M72	Z	-0.009	-0.009	0	%100

**Member Distributed Loads (BLC 7 : 120 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.002	.002	0	%100
2	FFTH2	X	.002	.002	0	%100
3	FFTH3	X	.002	.002	0	%100
4	FFBH1	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
5	FFBH2	X	.002	.002	0	%100
6	FFBH3	X	.002	.002	0	%100
7	MP-1	X	.004	.004	0	%100
8	MP-2	X	.004	.004	0	%100
9	MP-3	X	.004	.004	0	%100
10	MP-4	X	.004	.004	0	%100
11	SF2-TH	X	.000273	.000273	0	%100
12	SF2-BH	X	.000273	.000273	0	%100
13	SF2-V1	X	.001	.001	0	%100
14	SF2-V2	X	.001	.001	0	%100
15	SF2-D1	X	.001	.001	0	%100
16	SF3-TH	X	.003	.003	0	%100
17	SF3-BH	X	.003	.003	0	%100
18	SF3-V1	X	.001	.001	0	%100
19	SF3-V2	X	.001	.001	0	%100
20	SF3-D1	X	.001	.001	0	%100
21	BC-TH	X	.000845	.000845	0	%100
22	BC-BH	X	.000845	.000845	0	%100
23	SA-1	X	.003	.003	0	%100
24	M24	X	.002	.002	0	%100
25	M25	X	.002	.002	0	%100
26	M26	X	.002	.002	0	%100
27	M27	X	.002	.002	0	%100
28	M28	X	.002	.002	0	%100
29	M29	X	.002	.002	0	%100
30	MP-9	X	.004	.004	0	%100
31	MP-10	X	.004	.004	0	%100
32	MP-11	X	.004	.004	0	%100
33	MP-12	X	.004	.004	0	%100
34	M34	X	.002	.002	0	%100
35	M35	X	.002	.002	0	%100
36	M36	X	.001	.001	0	%100
37	M37	X	.001	.001	0	%100
38	M38	X	.001	.001	0	%100
39	M39	X	.000282	.000282	0	%100
40	M40	X	.000282	.000282	0	%100
41	M41	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100
44	M44	X	.000696	.000696	0	%100
45	M45	X	.000696	.000696	0	%100
46	M46	X	.002	.002	0	%100
47	M47	X	.004	.004	0	%100
48	M48	X	.004	.004	0	%100
49	M49	X	.004	.004	0	%100
50	M50	X	.004	.004	0	%100
51	M51	X	.004	.004	0	%100
52	M52	X	.004	.004	0	%100
53	MP-5	X	.004	.004	0	%100
54	MP-6	X	.004	.004	0	%100
55	MP-7	X	.004	.004	0	%100
56	MP-8	X	.004	.004	0	%100
57	M57	X	.003	.003	0	%100
58	M58	X	.003	.003	0	%100
59	M59	X	.001	.001	0	%100
60	M60	X	.001	.001	0	%100
61	M61	X	.001	.001	0	%100





Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
62	M62	X	.002	.002	0	%100
63	M63	X	.002	.002	0	%100
64	M64	X	.001	.001	0	%100
65	M65	X	.001	.001	0	%100
66	M66	X	.001	.001	0	%100
67	M67	X	.001	.001	0	%100
68	M68	X	.001	.001	0	%100
69	M69	X	.001	.001	0	%100
70	Mast	X	.005	.005	0	%100
71	M71	X	.005	.005	0	%100
72	M72	X	.005	.005	0	%100
73	FFTH1	Z	-.004	-.004	0	%100
74	FFTH2	Z	-.004	-.004	0	%100
75	FFTH3	Z	-.004	-.004	0	%100
76	FFBH1	Z	-.004	-.004	0	%100
77	FFBH2	Z	-.004	-.004	0	%100
78	FFBH3	Z	-.004	-.004	0	%100
79	MP-1	Z	-.007	-.007	0	%100
80	MP-2	Z	-.007	-.007	0	%100
81	MP-3	Z	-.007	-.007	0	%100
82	MP-4	Z	-.007	-.007	0	%100
83	SF2-TH	Z	-.000415	-.000415	0	%100
84	SF2-BH	Z	-.000415	-.000415	0	%100
85	SF2-V1	Z	-.002	-.002	0	%100
86	SF2-V2	Z	-.002	-.002	0	%100
87	SF2-D1	Z	-.002	-.002	0	%100
88	SF3-TH	Z	-.005	-.005	0	%100
89	SF3-BH	Z	-.005	-.005	0	%100
90	SF3-V1	Z	-.002	-.002	0	%100
91	SF3-V2	Z	-.002	-.002	0	%100
92	SF3-D1	Z	-.002	-.002	0	%100
93	BC-TH	Z	-.001	-.001	0	%100
94	BC-BH	Z	-.001	-.001	0	%100
95	SA-1	Z	-.006	-.006	0	%100
96	M24	Z	-.004	-.004	0	%100
97	M25	Z	-.004	-.004	0	%100
98	M26	Z	-.004	-.004	0	%100
99	M27	Z	-.004	-.004	0	%100
100	M28	Z	-.004	-.004	0	%100
101	M29	Z	-.004	-.004	0	%100
102	MP-9	Z	-.007	-.007	0	%100
103	MP-10	Z	-.007	-.007	0	%100
104	MP-11	Z	-.007	-.007	0	%100
105	MP-12	Z	-.007	-.007	0	%100
106	M34	Z	-.006	-.006	0	%100
107	M35	Z	-.006	-.006	0	%100
108	M36	Z	-.002	-.002	0	%100
109	M37	Z	-.002	-.002	0	%100
110	M38	Z	-.002	-.002	0	%100
111	M39	Z	-.000387	-.000387	0	%100
112	M40	Z	-.000387	-.000387	0	%100
113	M41	Z	-.002	-.002	0	%100
114	M42	Z	-.002	-.002	0	%100
115	M43	Z	-.002	-.002	0	%100
116	M44	Z	-.001	-.001	0	%100
117	M45	Z	-.001	-.001	0	%100
118	M46	Z	-.003	-.003	0	%100



Company : Tower Engineering Professionals, Inc.  
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 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
119	M47	Z	-.007	-.007	0	%100
120	M48	Z	-.007	-.007	0	%100
121	M49	Z	-.007	-.007	0	%100
122	M50	Z	-.007	-.007	0	%100
123	M51	Z	-.007	-.007	0	%100
124	M52	Z	-.007	-.007	0	%100
125	MP-5	Z	-.007	-.007	0	%100
126	MP-6	Z	-.007	-.007	0	%100
127	MP-7	Z	-.007	-.007	0	%100
128	MP-8	Z	-.007	-.007	0	%100
129	M57	Z	-.004	-.004	0	%100
130	M58	Z	-.004	-.004	0	%100
131	M59	Z	-.002	-.002	0	%100
132	M60	Z	-.002	-.002	0	%100
133	M61	Z	-.002	-.002	0	%100
134	M62	Z	-.006	-.006	0	%100
135	M63	Z	-.006	-.006	0	%100
136	M64	Z	-.002	-.002	0	%100
137	M65	Z	-.002	-.002	0	%100
138	M66	Z	-.002	-.002	0	%100
139	M67	Z	-.003	-.003	0	%100
140	M68	Z	-.003	-.003	0	%100
141	M69	Z	-.003	-.003	0	%100
142	Mast	Z	-.008	-.008	0	%100
143	M71	Z	-.008	-.008	0	%100
144	M72	Z	-.008	-.008	0	%100

**Member Distributed Loads (BLC 8 : 135 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.004	.004	0	%100
2	FFTH2	X	.004	.004	0	%100
3	FFTH3	X	.004	.004	0	%100
4	FFBH1	X	.004	.004	0	%100
5	FFBH2	X	.004	.004	0	%100
6	FFBH3	X	.004	.004	0	%100
7	MP-1	X	.006	.006	0	%100
8	MP-2	X	.006	.006	0	%100
9	MP-3	X	.006	.006	0	%100
10	MP-4	X	.006	.006	0	%100
11	SF2-TH	X	.000977	.000977	0	%100
12	SF2-BH	X	.000977	.000977	0	%100
13	SF2-V1	X	.002	.002	0	%100
14	SF2-V2	X	.002	.002	0	%100
15	SF2-D1	X	.002	.002	0	%100
16	SF3-TH	X	.005	.005	0	%100
17	SF3-BH	X	.005	.005	0	%100
18	SF3-V1	X	.002	.002	0	%100
19	SF3-V2	X	.002	.002	0	%100
20	SF3-D1	X	.002	.002	0	%100
21	BC-TH	X	.002	.002	0	%100
22	BC-BH	X	.002	.002	0	%100
23	SA-1	X	.004	.004	0	%100
24	M24	X	.002	.002	0	%100
25	M25	X	.002	.002	0	%100
26	M26	X	.002	.002	0	%100
27	M27	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
28	M28	X	.002	.002	0 %100
29	M29	X	.002	.002	0 %100
30	MP-9	X	.006	.006	0 %100
31	MP-10	X	.006	.006	0 %100
32	MP-11	X	.006	.006	0 %100
33	MP-12	X	.006	.006	0 %100
34	M34	X	.003	.003	0 %100
35	M35	X	.003	.003	0 %100
36	M36	X	.002	.002	0 %100
37	M37	X	.002	.002	0 %100
38	M38	X	.002	.002	0 %100
39	M39	X	.002	.002	0 %100
40	M40	X	.002	.002	0 %100
41	M41	X	.002	.002	0 %100
42	M42	X	.002	.002	0 %100
43	M43	X	.002	.002	0 %100
44	M44	X	.000509	.000509	0 %100
45	M45	X	.000509	.000509	0 %100
46	M46	X	.004	.004	0 %100
47	M47	X	.006	.006	0 %100
48	M48	X	.006	.006	0 %100
49	M49	X	.006	.006	0 %100
50	M50	X	.006	.006	0 %100
51	M51	X	.006	.006	0 %100
52	M52	X	.006	.006	0 %100
53	MP-5	X	.006	.006	0 %100
54	MP-6	X	.006	.006	0 %100
55	MP-7	X	.006	.006	0 %100
56	MP-8	X	.006	.006	0 %100
57	M57	X	.005	.005	0 %100
58	M58	X	.005	.005	0 %100
59	M59	X	.002	.002	0 %100
60	M60	X	.002	.002	0 %100
61	M61	X	.002	.002	0 %100
62	M62	X	.002	.002	0 %100
63	M63	X	.002	.002	0 %100
64	M64	X	.002	.002	0 %100
65	M65	X	.002	.002	0 %100
66	M66	X	.002	.002	0 %100
67	M67	X	.002	.002	0 %100
68	M68	X	.002	.002	0 %100
69	M69	X	.001	.001	0 %100
70	Mast	X	.007	.007	0 %100
71	M71	X	.007	.007	0 %100
72	M72	X	.007	.007	0 %100
73	FFTH1	Z	-.004	-.004	0 %100
74	FFTH2	Z	-.004	-.004	0 %100
75	FFTH3	Z	-.004	-.004	0 %100
76	FFBH1	Z	-.004	-.004	0 %100
77	FFBH2	Z	-.004	-.004	0 %100
78	FFBH3	Z	-.004	-.004	0 %100
79	MP-1	Z	-.006	-.006	0 %100
80	MP-2	Z	-.006	-.006	0 %100
81	MP-3	Z	-.006	-.006	0 %100
82	MP-4	Z	-.006	-.006	0 %100
83	SF2-TH	Z	-.000858	-.000858	0 %100
84	SF2-BH	Z	-.000858	-.000858	0 %100



Company : Tower Engineering Professionals, Inc.  
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**Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
85	SF2-V1	Z	-.002	-.002	0 %100
86	SF2-V2	Z	-.002	-.002	0 %100
87	SF2-D1	Z	-.002	-.002	0 %100
88	SF3-TH	Z	-.005	-.005	0 %100
89	SF3-BH	Z	-.005	-.005	0 %100
90	SF3-V1	Z	-.002	-.002	0 %100
91	SF3-V2	Z	-.002	-.002	0 %100
92	SF3-D1	Z	-.002	-.002	0 %100
93	BC-TH	Z	-.002	-.002	0 %100
94	BC-BH	Z	-.002	-.002	0 %100
95	SA-1	Z	-.005	-.005	0 %100
96	M24	Z	-.002	-.002	0 %100
97	M25	Z	-.002	-.002	0 %100
98	M26	Z	-.002	-.002	0 %100
99	M27	Z	-.002	-.002	0 %100
100	M28	Z	-.002	-.002	0 %100
101	M29	Z	-.002	-.002	0 %100
102	MP-9	Z	-.006	-.006	0 %100
103	MP-10	Z	-.006	-.006	0 %100
104	MP-11	Z	-.006	-.006	0 %100
105	MP-12	Z	-.006	-.006	0 %100
106	M34	Z	-.004	-.004	0 %100
107	M35	Z	-.004	-.004	0 %100
108	M36	Z	-.002	-.002	0 %100
109	M37	Z	-.002	-.002	0 %100
110	M38	Z	-.002	-.002	0 %100
111	M39	Z	-.001	-.001	0 %100
112	M40	Z	-.001	-.001	0 %100
113	M41	Z	-.002	-.002	0 %100
114	M42	Z	-.002	-.002	0 %100
115	M43	Z	-.002	-.002	0 %100
116	M44	Z	-.00059	-.00059	0 %100
117	M45	Z	-.00059	-.00059	0 %100
118	M46	Z	-.004	-.004	0 %100
119	M47	Z	-.006	-.006	0 %100
120	M48	Z	-.006	-.006	0 %100
121	M49	Z	-.006	-.006	0 %100
122	M50	Z	-.006	-.006	0 %100
123	M51	Z	-.006	-.006	0 %100
124	M52	Z	-.006	-.006	0 %100
125	MP-5	Z	-.006	-.006	0 %100
126	MP-6	Z	-.006	-.006	0 %100
127	MP-7	Z	-.006	-.006	0 %100
128	MP-8	Z	-.006	-.006	0 %100
129	M57	Z	-.004	-.004	0 %100
130	M58	Z	-.004	-.004	0 %100
131	M59	Z	-.002	-.002	0 %100
132	M60	Z	-.002	-.002	0 %100
133	M61	Z	-.002	-.002	0 %100
134	M62	Z	-.004	-.004	0 %100
135	M63	Z	-.004	-.004	0 %100
136	M64	Z	-.002	-.002	0 %100
137	M65	Z	-.002	-.002	0 %100
138	M66	Z	-.002	-.002	0 %100
139	M67	Z	-.002	-.002	0 %100
140	M68	Z	-.002	-.002	0 %100
141	M69	Z	-.001	-.001	0 %100



Company : Tower Engineering Professionals, Inc.  
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**Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
142	Mast	Z	-0.07	-0.07	0	%100
143	M71	Z	-0.07	-0.07	0	%100
144	M72	Z	-0.07	-0.07	0	%100

**Member Distributed Loads (BLC 9 : 150 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.006	.006	0	%100
2	FFTH2	X	.006	.006	0	%100
3	FFTH3	X	.006	.006	0	%100
4	FFBH1	X	.006	.006	0	%100
5	FFBH2	X	.006	.006	0	%100
6	FFBH3	X	.006	.006	0	%100
7	MP-1	X	.007	.007	0	%100
8	MP-2	X	.007	.007	0	%100
9	MP-3	X	.007	.007	0	%100
10	MP-4	X	.007	.007	0	%100
11	SF2-TH	X	.003	.003	0	%100
12	SF2-BH	X	.003	.003	0	%100
13	SF2-V1	X	.002	.002	0	%100
14	SF2-V2	X	.002	.002	0	%100
15	SF2-D1	X	.002	.002	0	%100
16	SF3-TH	X	.006	.006	0	%100
17	SF3-BH	X	.006	.006	0	%100
18	SF3-V1	X	.002	.002	0	%100
19	SF3-V2	X	.002	.002	0	%100
20	SF3-D1	X	.002	.002	0	%100
21	BC-TH	X	.003	.003	0	%100
22	BC-BH	X	.003	.003	0	%100
23	SA-1	X	.004	.004	0	%100
24	M24	X	0	0	0	%100
25	M25	X	0	0	0	%100
26	M26	X	0	0	0	%100
27	M27	X	0	0	0	%100
28	M28	X	0	0	0	%100
29	M29	X	0	0	0	%100
30	MP-9	X	.007	.007	0	%100
31	MP-10	X	.007	.007	0	%100
32	MP-11	X	.007	.007	0	%100
33	MP-12	X	.007	.007	0	%100
34	M34	X	.002	.002	0	%100
35	M35	X	.002	.002	0	%100
36	M36	X	.002	.002	0	%100
37	M37	X	.002	.002	0	%100
38	M38	X	.002	.002	0	%100
39	M39	X	.004	.004	0	%100
40	M40	X	.004	.004	0	%100
41	M41	X	.002	.002	0	%100
42	M42	X	.002	.002	0	%100
43	M43	X	.002	.002	0	%100
44	M44	X	0	0	0	%100
45	M45	X	0	0	0	%100
46	M46	X	.005	.005	0	%100
47	M47	X	.006	.006	0	%100
48	M48	X	.006	.006	0	%100
49	M49	X	.006	.006	0	%100
50	M50	X	.006	.006	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
51	M51	X	.006	.006	0	%100
52	M52	X	.006	.006	0	%100
53	MP-5	X	.007	.007	0	%100
54	MP-6	X	.007	.007	0	%100
55	MP-7	X	.007	.007	0	%100
56	MP-8	X	.007	.007	0	%100
57	M57	X	.007	.007	0	%100
58	M58	X	.007	.007	0	%100
59	M59	X	.002	.002	0	%100
60	M60	X	.002	.002	0	%100
61	M61	X	.002	.002	0	%100
62	M62	X	.002	.002	0	%100
63	M63	X	.002	.002	0	%100
64	M64	X	.002	.002	0	%100
65	M65	X	.002	.002	0	%100
66	M66	X	.002	.002	0	%100
67	M67	X	.002	.002	0	%100
68	M68	X	.002	.002	0	%100
69	M69	X	0	0	0	%100
70	Mast	X	.008	.008	0	%100
71	M71	X	.008	.008	0	%100
72	M72	X	.008	.008	0	%100
73	FFTH1	Z	-.004	-.004	0	%100
74	FFTH2	Z	-.004	-.004	0	%100
75	FFTH3	Z	-.004	-.004	0	%100
76	FFBH1	Z	-.004	-.004	0	%100
77	FFBH2	Z	-.004	-.004	0	%100
78	FFBH3	Z	-.004	-.004	0	%100
79	MP-1	Z	-.004	-.004	0	%100
80	MP-2	Z	-.004	-.004	0	%100
81	MP-3	Z	-.004	-.004	0	%100
82	MP-4	Z	-.004	-.004	0	%100
83	SF2-TH	Z	-.001	-.001	0	%100
84	SF2-BH	Z	-.001	-.001	0	%100
85	SF2-V1	Z	-.001	-.001	0	%100
86	SF2-V2	Z	-.001	-.001	0	%100
87	SF2-D1	Z	-.001	-.001	0	%100
88	SF3-TH	Z	-.003	-.003	0	%100
89	SF3-BH	Z	-.003	-.003	0	%100
90	SF3-V1	Z	-.001	-.001	0	%100
91	SF3-V2	Z	-.001	-.001	0	%100
92	SF3-D1	Z	-.001	-.001	0	%100
93	BC-TH	Z	-.001	-.001	0	%100
94	BC-BH	Z	-.001	-.001	0	%100
95	SA-1	Z	-.003	-.003	0	%100
96	M24	Z	0	0	0	%100
97	M25	Z	0	0	0	%100
98	M26	Z	0	0	0	%100
99	M27	Z	0	0	0	%100
100	M28	Z	0	0	0	%100
101	M29	Z	0	0	0	%100
102	MP-9	Z	-.004	-.004	0	%100
103	MP-10	Z	-.004	-.004	0	%100
104	MP-11	Z	-.004	-.004	0	%100
105	MP-12	Z	-.004	-.004	0	%100
106	M34	Z	-.002	-.002	0	%100
107	M35	Z	-.002	-.002	0	%100



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**Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
108	M36	Z	-0.01	-0.01	0	%100
109	M37	Z	-0.01	-0.01	0	%100
110	M38	Z	-0.01	-0.01	0	%100
111	M39	Z	-0.02	-0.02	0	%100
112	M40	Z	-0.02	-0.02	0	%100
113	M41	Z	-0.01	-0.01	0	%100
114	M42	Z	-0.01	-0.01	0	%100
115	M43	Z	-0.01	-0.01	0	%100
116	M44	Z	0	0	0	%100
117	M45	Z	0	0	0	%100
118	M46	Z	-0.03	-0.03	0	%100
119	M47	Z	-0.04	-0.04	0	%100
120	M48	Z	-0.04	-0.04	0	%100
121	M49	Z	-0.04	-0.04	0	%100
122	M50	Z	-0.04	-0.04	0	%100
123	M51	Z	-0.04	-0.04	0	%100
124	M52	Z	-0.04	-0.04	0	%100
125	MP-5	Z	-0.04	-0.04	0	%100
126	MP-6	Z	-0.04	-0.04	0	%100
127	MP-7	Z	-0.04	-0.04	0	%100
128	MP-8	Z	-0.04	-0.04	0	%100
129	M57	Z	-0.03	-0.03	0	%100
130	M58	Z	-0.03	-0.03	0	%100
131	M59	Z	-0.01	-0.01	0	%100
132	M60	Z	-0.01	-0.01	0	%100
133	M61	Z	-0.01	-0.01	0	%100
134	M62	Z	-0.02	-0.02	0	%100
135	M63	Z	-0.02	-0.02	0	%100
136	M64	Z	-0.01	-0.01	0	%100
137	M65	Z	-0.01	-0.01	0	%100
138	M66	Z	-0.01	-0.01	0	%100
139	M67	Z	-0.01	-0.01	0	%100
140	M68	Z	-0.01	-0.01	0	%100
141	M69	Z	0	0	0	%100
142	Mast	Z	-0.05	-0.05	0	%100
143	M71	Z	-0.05	-0.05	0	%100
144	M72	Z	-0.05	-0.05	0	%100

**Member Distributed Loads (BLC 10 : 180 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.009	.009	0	%100
2	FFTH2	X	.009	.009	0	%100
3	FFTH3	X	.009	.009	0	%100
4	FFBH1	X	.009	.009	0	%100
5	FFBH2	X	.009	.009	0	%100
6	FFBH3	X	.009	.009	0	%100
7	MP-1	X	.009	.009	0	%100
8	MP-2	X	.009	.009	0	%100
9	MP-3	X	.009	.009	0	%100
10	MP-4	X	.009	.009	0	%100
11	SF2-TH	X	.006	.006	0	%100
12	SF2-BH	X	.006	.006	0	%100
13	SF2-V1	X	.003	.003	0	%100
14	SF2-V2	X	.003	.003	0	%100
15	SF2-D1	X	.003	.003	0	%100
16	SF3-TH	X	.006	.006	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]	
17	SF3-BH	X	.006	.006	0	%100
18	SF3-V1	X	.003	.003	0	%100
19	SF3-V2	X	.003	.003	0	%100
20	SF3-D1	X	.003	.003	0	%100
21	BC-TH	X	.003	.003	0	%100
22	BC-BH	X	.003	.003	0	%100
23	SA-1	X	.003	.003	0	%100
24	M24	X	.004	.004	0	%100
25	M25	X	.004	.004	0	%100
26	M26	X	.004	.004	0	%100
27	M27	X	.004	.004	0	%100
28	M28	X	.004	.004	0	%100
29	M29	X	.004	.004	0	%100
30	MP-9	X	.009	.009	0	%100
31	MP-10	X	.009	.009	0	%100
32	MP-11	X	.009	.009	0	%100
33	MP-12	X	.009	.009	0	%100
34	M34	X	.000367	.000367	0	%100
35	M35	X	.000367	.000367	0	%100
36	M36	X	.003	.003	0	%100
37	M37	X	.003	.003	0	%100
38	M38	X	.003	.003	0	%100
39	M39	X	.007	.007	0	%100
40	M40	X	.007	.007	0	%100
41	M41	X	.003	.003	0	%100
42	M42	X	.003	.003	0	%100
43	M43	X	.003	.003	0	%100
44	M44	X	.001	.001	0	%100
45	M45	X	.001	.001	0	%100
46	M46	X	.007	.007	0	%100
47	M47	X	.004	.004	0	%100
48	M48	X	.004	.004	0	%100
49	M49	X	.004	.004	0	%100
50	M50	X	.004	.004	0	%100
51	M51	X	.004	.004	0	%100
52	M52	X	.004	.004	0	%100
53	MP-5	X	.009	.009	0	%100
54	MP-6	X	.009	.009	0	%100
55	MP-7	X	.009	.009	0	%100
56	MP-8	X	.009	.009	0	%100
57	M57	X	.007	.007	0	%100
58	M58	X	.007	.007	0	%100
59	M59	X	.003	.003	0	%100
60	M60	X	.003	.003	0	%100
61	M61	X	.003	.003	0	%100
62	M62	X	.000367	.000367	0	%100
63	M63	X	.000367	.000367	0	%100
64	M64	X	.003	.003	0	%100
65	M65	X	.003	.003	0	%100
66	M66	X	.003	.003	0	%100
67	M67	X	.001	.001	0	%100
68	M68	X	.001	.001	0	%100
69	M69	X	.003	.003	0	%100
70	Mast	X	.009	.009	0	%100
71	M71	X	.009	.009	0	%100
72	M72	X	.009	.009	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 11 : 210 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FFTH1	X	.006	.006	0 %100
2	FFTH2	X	.006	.006	0 %100
3	FFTH3	X	.006	.006	0 %100
4	FFBH1	X	.006	.006	0 %100
5	FFBH2	X	.006	.006	0 %100
6	FFBH3	X	.006	.006	0 %100
7	MP-1	X	.007	.007	0 %100
8	MP-2	X	.007	.007	0 %100
9	MP-3	X	.007	.007	0 %100
10	MP-4	X	.007	.007	0 %100
11	SF2-TH	X	.006	.006	0 %100
12	SF2-BH	X	.006	.006	0 %100
13	SF2-V1	X	.002	.002	0 %100
14	SF2-V2	X	.002	.002	0 %100
15	SF2-D1	X	.002	.002	0 %100
16	SF3-TH	X	.003	.003	0 %100
17	SF3-BH	X	.003	.003	0 %100
18	SF3-V1	X	.002	.002	0 %100
19	SF3-V2	X	.002	.002	0 %100
20	SF3-D1	X	.002	.002	0 %100
21	BC-TH	X	.003	.003	0 %100
22	BC-BH	X	.003	.003	0 %100
23	SA-1	X	0	0	0 %100
24	M24	X	.006	.006	0 %100
25	M25	X	.006	.006	0 %100
26	M26	X	.006	.006	0 %100
27	M27	X	.006	.006	0 %100
28	M28	X	.006	.006	0 %100
29	M29	X	.006	.006	0 %100
30	MP-9	X	.007	.007	0 %100
31	MP-10	X	.007	.007	0 %100
32	MP-11	X	.007	.007	0 %100
33	MP-12	X	.007	.007	0 %100
34	M34	X	.002	.002	0 %100
35	M35	X	.002	.002	0 %100
36	M36	X	.002	.002	0 %100
37	M37	X	.002	.002	0 %100
38	M38	X	.002	.002	0 %100
39	M39	X	.007	.007	0 %100
40	M40	X	.007	.007	0 %100
41	M41	X	.002	.002	0 %100
42	M42	X	.002	.002	0 %100
43	M43	X	.002	.002	0 %100
44	M44	X	.002	.002	0 %100
45	M45	X	.002	.002	0 %100
46	M46	X	.005	.005	0 %100
47	M47	X	0	0	0 %100
48	M48	X	0	0	0 %100
49	M49	X	0	0	0 %100
50	M50	X	0	0	0 %100
51	M51	X	0	0	0 %100
52	M52	X	0	0	0 %100
53	MP-5	X	.007	.007	0 %100
54	MP-6	X	.007	.007	0 %100
55	MP-7	X	.007	.007	0 %100
56	MP-8	X	.007	.007	0 %100
57	M57	X	.004	.004	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft....]	Start Location[ft.%]	End Location[ft.%]
58	M58	X	.004	.004	0 %100
59	M59	X	.002	.002	0 %100
60	M60	X	.002	.002	0 %100
61	M61	X	.002	.002	0 %100
62	M62	X	.002	.002	0 %100
63	M63	X	.002	.002	0 %100
64	M64	X	.002	.002	0 %100
65	M65	X	.002	.002	0 %100
66	M66	X	.002	.002	0 %100
67	M67	X	0	0	0 %100
68	M68	X	0	0	0 %100
69	M69	X	.004	.004	0 %100
70	Mast	X	.008	.008	0 %100
71	M71	X	.008	.008	0 %100
72	M72	X	.008	.008	0 %100
73	FFTH1	Z	.004	.004	0 %100
74	FFTH2	Z	.004	.004	0 %100
75	FFTH3	Z	.004	.004	0 %100
76	FFBH1	Z	.004	.004	0 %100
77	FFBH2	Z	.004	.004	0 %100
78	FFBH3	Z	.004	.004	0 %100
79	MP-1	Z	.004	.004	0 %100
80	MP-2	Z	.004	.004	0 %100
81	MP-3	Z	.004	.004	0 %100
82	MP-4	Z	.004	.004	0 %100
83	SF2-TH	Z	.003	.003	0 %100
84	SF2-BH	Z	.003	.003	0 %100
85	SF2-V1	Z	.001	.001	0 %100
86	SF2-V2	Z	.001	.001	0 %100
87	SF2-D1	Z	.001	.001	0 %100
88	SF3-TH	Z	.001	.001	0 %100
89	SF3-BH	Z	.001	.001	0 %100
90	SF3-V1	Z	.001	.001	0 %100
91	SF3-V2	Z	.001	.001	0 %100
92	SF3-D1	Z	.001	.001	0 %100
93	BC-TH	Z	.001	.001	0 %100
94	BC-BH	Z	.001	.001	0 %100
95	SA-1	Z	0	0	0 %100
96	M24	Z	.004	.004	0 %100
97	M25	Z	.004	.004	0 %100
98	M26	Z	.004	.004	0 %100
99	M27	Z	.004	.004	0 %100
100	M28	Z	.004	.004	0 %100
101	M29	Z	.004	.004	0 %100
102	MP-9	Z	.004	.004	0 %100
103	MP-10	Z	.004	.004	0 %100
104	MP-11	Z	.004	.004	0 %100
105	MP-12	Z	.004	.004	0 %100
106	M34	Z	.002	.002	0 %100
107	M35	Z	.002	.002	0 %100
108	M36	Z	.001	.001	0 %100
109	M37	Z	.001	.001	0 %100
110	M38	Z	.001	.001	0 %100
111	M39	Z	.003	.003	0 %100
112	M40	Z	.003	.003	0 %100
113	M41	Z	.001	.001	0 %100
114	M42	Z	.001	.001	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 11 : 210 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
115	M43	Z	.001	.001	0	%100
116	M44	Z	.001	.001	0	%100
117	M45	Z	.001	.001	0	%100
118	M46	Z	.003	.003	0	%100
119	M47	Z	0	0	0	%100
120	M48	Z	0	0	0	%100
121	M49	Z	0	0	0	%100
122	M50	Z	0	0	0	%100
123	M51	Z	0	0	0	%100
124	M52	Z	0	0	0	%100
125	MP-5	Z	.004	.004	0	%100
126	MP-6	Z	.004	.004	0	%100
127	MP-7	Z	.004	.004	0	%100
128	MP-8	Z	.004	.004	0	%100
129	M57	Z	.002	.002	0	%100
130	M58	Z	.002	.002	0	%100
131	M59	Z	.001	.001	0	%100
132	M60	Z	.001	.001	0	%100
133	M61	Z	.001	.001	0	%100
134	M62	Z	.002	.002	0	%100
135	M63	Z	.002	.002	0	%100
136	M64	Z	.001	.001	0	%100
137	M65	Z	.001	.001	0	%100
138	M66	Z	.001	.001	0	%100
139	M67	Z	0	0	0	%100
140	M68	Z	0	0	0	%100
141	M69	Z	.003	.003	0	%100
142	Mast	Z	.005	.005	0	%100
143	M71	Z	.005	.005	0	%100
144	M72	Z	.005	.005	0	%100

**Member Distributed Loads (BLC 12 : 225 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.004	.004	0	%100
2	FFTH2	X	.004	.004	0	%100
3	FFTH3	X	.004	.004	0	%100
4	FFBH1	X	.004	.004	0	%100
5	FFBH2	X	.004	.004	0	%100
6	FFBH3	X	.004	.004	0	%100
7	MP-1	X	.006	.006	0	%100
8	MP-2	X	.006	.006	0	%100
9	MP-3	X	.006	.006	0	%100
10	MP-4	X	.006	.006	0	%100
11	SF2-TH	X	.005	.005	0	%100
12	SF2-BH	X	.005	.005	0	%100
13	SF2-V1	X	.002	.002	0	%100
14	SF2-V2	X	.002	.002	0	%100
15	SF2-D1	X	.002	.002	0	%100
16	SF3-TH	X	.000977	.000977	0	%100
17	SF3-BH	X	.000977	.000977	0	%100
18	SF3-V1	X	.002	.002	0	%100
19	SF3-V2	X	.002	.002	0	%100
20	SF3-D1	X	.002	.002	0	%100
21	BC-TH	X	.002	.002	0	%100
22	BC-BH	X	.002	.002	0	%100
23	SA-1	X	.001	.001	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
24	M24	X	.006	.006	0	%100
25	M25	X	.006	.006	0	%100
26	M26	X	.006	.006	0	%100
27	M27	X	.006	.006	0	%100
28	M28	X	.006	.006	0	%100
29	M29	X	.006	.006	0	%100
30	MP-9	X	.006	.006	0	%100
31	MP-10	X	.006	.006	0	%100
32	MP-11	X	.006	.006	0	%100
33	MP-12	X	.006	.006	0	%100
34	M34	X	.002	.002	0	%100
35	M35	X	.002	.002	0	%100
36	M36	X	.002	.002	0	%100
37	M37	X	.002	.002	0	%100
38	M38	X	.002	.002	0	%100
39	M39	X	.005	.005	0	%100
40	M40	X	.005	.005	0	%100
41	M41	X	.002	.002	0	%100
42	M42	X	.002	.002	0	%100
43	M43	X	.002	.002	0	%100
44	M44	X	.002	.002	0	%100
45	M45	X	.002	.002	0	%100
46	M46	X	.004	.004	0	%100
47	M47	X	.002	.002	0	%100
48	M48	X	.002	.002	0	%100
49	M49	X	.002	.002	0	%100
50	M50	X	.002	.002	0	%100
51	M51	X	.002	.002	0	%100
52	M52	X	.002	.002	0	%100
53	MP-5	X	.006	.006	0	%100
54	MP-6	X	.006	.006	0	%100
55	MP-7	X	.006	.006	0	%100
56	MP-8	X	.006	.006	0	%100
57	M57	X	.002	.002	0	%100
58	M58	X	.002	.002	0	%100
59	M59	X	.002	.002	0	%100
60	M60	X	.002	.002	0	%100
61	M61	X	.002	.002	0	%100
62	M62	X	.003	.003	0	%100
63	M63	X	.003	.003	0	%100
64	M64	X	.002	.002	0	%100
65	M65	X	.002	.002	0	%100
66	M66	X	.002	.002	0	%100
67	M67	X	.000509	.000509	0	%100
68	M68	X	.000509	.000509	0	%100
69	M69	X	.004	.004	0	%100
70	Mast	X	.007	.007	0	%100
71	M71	X	.007	.007	0	%100
72	M72	X	.007	.007	0	%100
73	FFTH1	Z	.004	.004	0	%100
74	FFTH2	Z	.004	.004	0	%100
75	FFTH3	Z	.004	.004	0	%100
76	FFBH1	Z	.004	.004	0	%100
77	FFBH2	Z	.004	.004	0	%100
78	FFBH3	Z	.004	.004	0	%100
79	MP-1	Z	.006	.006	0	%100
80	MP-2	Z	.006	.006	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
81	MP-3	Z	.006	.006	0	%100
82	MP-4	Z	.006	.006	0	%100
83	SF2-TH	Z	.005	.005	0	%100
84	SF2-BH	Z	.005	.005	0	%100
85	SF2-V1	Z	.002	.002	0	%100
86	SF2-V2	Z	.002	.002	0	%100
87	SF2-D1	Z	.002	.002	0	%100
88	SF3-TH	Z	.000858	.000858	0	%100
89	SF3-BH	Z	.000858	.000858	0	%100
90	SF3-V1	Z	.002	.002	0	%100
91	SF3-V2	Z	.002	.002	0	%100
92	SF3-D1	Z	.002	.002	0	%100
93	BC-TH	Z	.002	.002	0	%100
94	BC-BH	Z	.002	.002	0	%100
95	SA-1	Z	.001	.001	0	%100
96	M24	Z	.006	.006	0	%100
97	M25	Z	.006	.006	0	%100
98	M26	Z	.006	.006	0	%100
99	M27	Z	.006	.006	0	%100
100	M28	Z	.006	.006	0	%100
101	M29	Z	.006	.006	0	%100
102	MP-9	Z	.006	.006	0	%100
103	MP-10	Z	.006	.006	0	%100
104	MP-11	Z	.006	.006	0	%100
105	MP-12	Z	.006	.006	0	%100
106	M34	Z	.004	.004	0	%100
107	M35	Z	.004	.004	0	%100
108	M36	Z	.002	.002	0	%100
109	M37	Z	.002	.002	0	%100
110	M38	Z	.002	.002	0	%100
111	M39	Z	.004	.004	0	%100
112	M40	Z	.004	.004	0	%100
113	M41	Z	.002	.002	0	%100
114	M42	Z	.002	.002	0	%100
115	M43	Z	.002	.002	0	%100
116	M44	Z	.002	.002	0	%100
117	M45	Z	.002	.002	0	%100
118	M46	Z	.004	.004	0	%100
119	M47	Z	.002	.002	0	%100
120	M48	Z	.002	.002	0	%100
121	M49	Z	.002	.002	0	%100
122	M50	Z	.002	.002	0	%100
123	M51	Z	.002	.002	0	%100
124	M52	Z	.002	.002	0	%100
125	MP-5	Z	.006	.006	0	%100
126	MP-6	Z	.006	.006	0	%100
127	MP-7	Z	.006	.006	0	%100
128	MP-8	Z	.006	.006	0	%100
129	M57	Z	.001	.001	0	%100
130	M58	Z	.001	.001	0	%100
131	M59	Z	.002	.002	0	%100
132	M60	Z	.002	.002	0	%100
133	M61	Z	.002	.002	0	%100
134	M62	Z	.004	.004	0	%100
135	M63	Z	.004	.004	0	%100
136	M64	Z	.002	.002	0	%100
137	M65	Z	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 12 : 225 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
138	M66	Z	.002	.002	0	%100
139	M67	Z	.00059	.00059	0	%100
140	M68	Z	.00059	.00059	0	%100
141	M69	Z	.005	.005	0	%100
142	Mast	Z	.007	.007	0	%100
143	M71	Z	.007	.007	0	%100
144	M72	Z	.007	.007	0	%100

**Member Distributed Loads (BLC 13 : 240 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.002	.002	0	%100
2	FFTH2	X	.002	.002	0	%100
3	FFTH3	X	.002	.002	0	%100
4	FFBH1	X	.002	.002	0	%100
5	FFBH2	X	.002	.002	0	%100
6	FFBH3	X	.002	.002	0	%100
7	MP-1	X	.004	.004	0	%100
8	MP-2	X	.004	.004	0	%100
9	MP-3	X	.004	.004	0	%100
10	MP-4	X	.004	.004	0	%100
11	SF2-TH	X	.003	.003	0	%100
12	SF2-BH	X	.003	.003	0	%100
13	SF2-V1	X	.001	.001	0	%100
14	SF2-V2	X	.001	.001	0	%100
15	SF2-D1	X	.001	.001	0	%100
16	SF3-TH	X	.000273	.000273	0	%100
17	SF3-BH	X	.000273	.000273	0	%100
18	SF3-V1	X	.001	.001	0	%100
19	SF3-V2	X	.001	.001	0	%100
20	SF3-D1	X	.001	.001	0	%100
21	BC-TH	X	.000845	.000845	0	%100
22	BC-BH	X	.000845	.000845	0	%100
23	SA-1	X	.001	.001	0	%100
24	M24	X	.004	.004	0	%100
25	M25	X	.004	.004	0	%100
26	M26	X	.004	.004	0	%100
27	M27	X	.004	.004	0	%100
28	M28	X	.004	.004	0	%100
29	M29	X	.004	.004	0	%100
30	MP-9	X	.004	.004	0	%100
31	MP-10	X	.004	.004	0	%100
32	MP-11	X	.004	.004	0	%100
33	MP-12	X	.004	.004	0	%100
34	M34	X	.002	.002	0	%100
35	M35	X	.002	.002	0	%100
36	M36	X	.001	.001	0	%100
37	M37	X	.001	.001	0	%100
38	M38	X	.001	.001	0	%100
39	M39	X	.003	.003	0	%100
40	M40	X	.003	.003	0	%100
41	M41	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100
44	M44	X	.001	.001	0	%100
45	M45	X	.001	.001	0	%100
46	M46	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
47	M47	X	.002	.002	0	%100
48	M48	X	.002	.002	0	%100
49	M49	X	.002	.002	0	%100
50	M50	X	.002	.002	0	%100
51	M51	X	.002	.002	0	%100
52	M52	X	.002	.002	0	%100
53	MP-5	X	.004	.004	0	%100
54	MP-6	X	.004	.004	0	%100
55	MP-7	X	.004	.004	0	%100
56	MP-8	X	.004	.004	0	%100
57	M57	X	.000282	.000282	0	%100
58	M58	X	.000282	.000282	0	%100
59	M59	X	.001	.001	0	%100
60	M60	X	.001	.001	0	%100
61	M61	X	.001	.001	0	%100
62	M62	X	.002	.002	0	%100
63	M63	X	.002	.002	0	%100
64	M64	X	.001	.001	0	%100
65	M65	X	.001	.001	0	%100
66	M66	X	.001	.001	0	%100
67	M67	X	.000696	.000696	0	%100
68	M68	X	.000696	.000696	0	%100
69	M69	X	.003	.003	0	%100
70	Mast	X	.005	.005	0	%100
71	M71	X	.005	.005	0	%100
72	M72	X	.005	.005	0	%100
73	FFTH1	Z	.004	.004	0	%100
74	FFTH2	Z	.004	.004	0	%100
75	FFTH3	Z	.004	.004	0	%100
76	FFBH1	Z	.004	.004	0	%100
77	FFBH2	Z	.004	.004	0	%100
78	FFBH3	Z	.004	.004	0	%100
79	MP-1	Z	.007	.007	0	%100
80	MP-2	Z	.007	.007	0	%100
81	MP-3	Z	.007	.007	0	%100
82	MP-4	Z	.007	.007	0	%100
83	SF2-TH	Z	.005	.005	0	%100
84	SF2-BH	Z	.005	.005	0	%100
85	SF2-V1	Z	.002	.002	0	%100
86	SF2-V2	Z	.002	.002	0	%100
87	SF2-D1	Z	.002	.002	0	%100
88	SF3-TH	Z	.000415	.000415	0	%100
89	SF3-BH	Z	.000415	.000415	0	%100
90	SF3-V1	Z	.002	.002	0	%100
91	SF3-V2	Z	.002	.002	0	%100
92	SF3-D1	Z	.002	.002	0	%100
93	BC-TH	Z	.001	.001	0	%100
94	BC-BH	Z	.001	.001	0	%100
95	SA-1	Z	.003	.003	0	%100
96	M24	Z	.007	.007	0	%100
97	M25	Z	.007	.007	0	%100
98	M26	Z	.007	.007	0	%100
99	M27	Z	.007	.007	0	%100
100	M28	Z	.007	.007	0	%100
101	M29	Z	.007	.007	0	%100
102	MP-9	Z	.007	.007	0	%100
103	MP-10	Z	.007	.007	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 13 : 240 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
104	MP-11	Z	.007	.007	0	%100
105	MP-12	Z	.007	.007	0	%100
106	M34	Z	.006	.006	0	%100
107	M35	Z	.006	.006	0	%100
108	M36	Z	.002	.002	0	%100
109	M37	Z	.002	.002	0	%100
110	M38	Z	.002	.002	0	%100
111	M39	Z	.004	.004	0	%100
112	M40	Z	.004	.004	0	%100
113	M41	Z	.002	.002	0	%100
114	M42	Z	.002	.002	0	%100
115	M43	Z	.002	.002	0	%100
116	M44	Z	.003	.003	0	%100
117	M45	Z	.003	.003	0	%100
118	M46	Z	.003	.003	0	%100
119	M47	Z	.004	.004	0	%100
120	M48	Z	.004	.004	0	%100
121	M49	Z	.004	.004	0	%100
122	M50	Z	.004	.004	0	%100
123	M51	Z	.004	.004	0	%100
124	M52	Z	.004	.004	0	%100
125	MP-5	Z	.007	.007	0	%100
126	MP-6	Z	.007	.007	0	%100
127	MP-7	Z	.007	.007	0	%100
128	MP-8	Z	.007	.007	0	%100
129	M57	Z	.000387	.000387	0	%100
130	M58	Z	.000387	.000387	0	%100
131	M59	Z	.002	.002	0	%100
132	M60	Z	.002	.002	0	%100
133	M61	Z	.002	.002	0	%100
134	M62	Z	.006	.006	0	%100
135	M63	Z	.006	.006	0	%100
136	M64	Z	.002	.002	0	%100
137	M65	Z	.002	.002	0	%100
138	M66	Z	.002	.002	0	%100
139	M67	Z	.001	.001	0	%100
140	M68	Z	.001	.001	0	%100
141	M69	Z	.006	.006	0	%100
142	Mast	Z	.008	.008	0	%100
143	M71	Z	.008	.008	0	%100
144	M72	Z	.008	.008	0	%100

**Member Distributed Loads (BLC 14 : 270 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	Z	0	0	0	%100
2	FFTH2	Z	0	0	0	%100
3	FFTH3	Z	0	0	0	%100
4	FFBH1	Z	0	0	0	%100
5	FFBH2	Z	0	0	0	%100
6	FFBH3	Z	0	0	0	%100
7	MP-1	Z	.009	.009	0	%100
8	MP-2	Z	.009	.009	0	%100
9	MP-3	Z	.009	.009	0	%100
10	MP-4	Z	.009	.009	0	%100
11	SF2-TH	Z	.004	.004	0	%100
12	SF2-BH	Z	.004	.004	0	%100





Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
13	SF2-V1	Z	.003	.003	0	%100
14	SF2-V2	Z	.003	.003	0	%100
15	SF2-D1	Z	.003	.003	0	%100
16	SF3-TH	Z	.004	.004	0	%100
17	SF3-BH	Z	.004	.004	0	%100
18	SF3-V1	Z	.003	.003	0	%100
19	SF3-V2	Z	.003	.003	0	%100
20	SF3-D1	Z	.003	.003	0	%100
21	BC-TH	Z	0	0	0	%100
22	BC-BH	Z	0	0	0	%100
23	SA-1	Z	.006	.006	0	%100
24	M24	Z	.007	.007	0	%100
25	M25	Z	.007	.007	0	%100
26	M26	Z	.007	.007	0	%100
27	M27	Z	.007	.007	0	%100
28	M28	Z	.007	.007	0	%100
29	M29	Z	.007	.007	0	%100
30	MP-9	Z	.009	.009	0	%100
31	MP-10	Z	.009	.009	0	%100
32	MP-11	Z	.009	.009	0	%100
33	MP-12	Z	.009	.009	0	%100
34	M34	Z	.008	.008	0	%100
35	M35	Z	.008	.008	0	%100
36	M36	Z	.003	.003	0	%100
37	M37	Z	.003	.003	0	%100
38	M38	Z	.003	.003	0	%100
39	M39	Z	.003	.003	0	%100
40	M40	Z	.003	.003	0	%100
41	M41	Z	.003	.003	0	%100
42	M42	Z	.003	.003	0	%100
43	M43	Z	.003	.003	0	%100
44	M44	Z	.003	.003	0	%100
45	M45	Z	.003	.003	0	%100
46	M46	Z	0	0	0	%100
47	M47	Z	.007	.007	0	%100
48	M48	Z	.007	.007	0	%100
49	M49	Z	.007	.007	0	%100
50	M50	Z	.007	.007	0	%100
51	M51	Z	.007	.007	0	%100
52	M52	Z	.007	.007	0	%100
53	MP-5	Z	.009	.009	0	%100
54	MP-6	Z	.009	.009	0	%100
55	MP-7	Z	.009	.009	0	%100
56	MP-8	Z	.009	.009	0	%100
57	M57	Z	.003	.003	0	%100
58	M58	Z	.003	.003	0	%100
59	M59	Z	.003	.003	0	%100
60	M60	Z	.003	.003	0	%100
61	M61	Z	.003	.003	0	%100
62	M62	Z	.008	.008	0	%100
63	M63	Z	.008	.008	0	%100
64	M64	Z	.003	.003	0	%100
65	M65	Z	.003	.003	0	%100
66	M66	Z	.003	.003	0	%100
67	M67	Z	.003	.003	0	%100
68	M68	Z	.003	.003	0	%100
69	M69	Z	.006	.006	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 14 : 270 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
70	Mast	Z	.009	.009	0	%100
71	M71	Z	.009	.009	0	%100
72	M72	Z	.009	.009	0	%100

**Member Distributed Loads (BLC 15 : 300 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-.002	-.002	0	%100
2	FFTH2	X	-.002	-.002	0	%100
3	FFTH3	X	-.002	-.002	0	%100
4	FFBH1	X	-.002	-.002	0	%100
5	FFBH2	X	-.002	-.002	0	%100
6	FFBH3	X	-.002	-.002	0	%100
7	MP-1	X	-.004	-.004	0	%100
8	MP-2	X	-.004	-.004	0	%100
9	MP-3	X	-.004	-.004	0	%100
10	MP-4	X	-.004	-.004	0	%100
11	SF2-TH	X	-.000273	-.000273	0	%100
12	SF2-BH	X	-.000273	-.000273	0	%100
13	SF2-V1	X	-.001	-.001	0	%100
14	SF2-V2	X	-.001	-.001	0	%100
15	SF2-D1	X	-.001	-.001	0	%100
16	SF3-TH	X	-.003	-.003	0	%100
17	SF3-BH	X	-.003	-.003	0	%100
18	SF3-V1	X	-.001	-.001	0	%100
19	SF3-V2	X	-.001	-.001	0	%100
20	SF3-D1	X	-.001	-.001	0	%100
21	BC-TH	X	-.000845	-.000845	0	%100
22	BC-BH	X	-.000845	-.000845	0	%100
23	SA-1	X	-.003	-.003	0	%100
24	M24	X	-.002	-.002	0	%100
25	M25	X	-.002	-.002	0	%100
26	M26	X	-.002	-.002	0	%100
27	M27	X	-.002	-.002	0	%100
28	M28	X	-.002	-.002	0	%100
29	M29	X	-.002	-.002	0	%100
30	MP-9	X	-.004	-.004	0	%100
31	MP-10	X	-.004	-.004	0	%100
32	MP-11	X	-.004	-.004	0	%100
33	MP-12	X	-.004	-.004	0	%100
34	M34	X	-.002	-.002	0	%100
35	M35	X	-.002	-.002	0	%100
36	M36	X	-.001	-.001	0	%100
37	M37	X	-.001	-.001	0	%100
38	M38	X	-.001	-.001	0	%100
39	M39	X	-.000282	-.000282	0	%100
40	M40	X	-.000282	-.000282	0	%100
41	M41	X	-.001	-.001	0	%100
42	M42	X	-.001	-.001	0	%100
43	M43	X	-.001	-.001	0	%100
44	M44	X	-.000696	-.000696	0	%100
45	M45	X	-.000696	-.000696	0	%100
46	M46	X	-.002	-.002	0	%100
47	M47	X	-.004	-.004	0	%100
48	M48	X	-.004	-.004	0	%100
49	M49	X	-.004	-.004	0	%100
50	M50	X	-.004	-.004	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
51	M51	X	-0.04	-0.04	0	%100
52	M52	X	-0.04	-0.04	0	%100
53	MP-5	X	-0.04	-0.04	0	%100
54	MP-6	X	-0.04	-0.04	0	%100
55	MP-7	X	-0.04	-0.04	0	%100
56	MP-8	X	-0.04	-0.04	0	%100
57	M57	X	-0.03	-0.03	0	%100
58	M58	X	-0.03	-0.03	0	%100
59	M59	X	-0.01	-0.01	0	%100
60	M60	X	-0.01	-0.01	0	%100
61	M61	X	-0.01	-0.01	0	%100
62	M62	X	-0.02	-0.02	0	%100
63	M63	X	-0.02	-0.02	0	%100
64	M64	X	-0.01	-0.01	0	%100
65	M65	X	-0.01	-0.01	0	%100
66	M66	X	-0.01	-0.01	0	%100
67	M67	X	-0.01	-0.01	0	%100
68	M68	X	-0.01	-0.01	0	%100
69	M69	X	-0.01	-0.01	0	%100
70	Mast	X	-0.05	-0.05	0	%100
71	M71	X	-0.05	-0.05	0	%100
72	M72	X	-0.05	-0.05	0	%100
73	FFTH1	Z	.004	.004	0	%100
74	FFTH2	Z	.004	.004	0	%100
75	FFTH3	Z	.004	.004	0	%100
76	FFBH1	Z	.004	.004	0	%100
77	FFBH2	Z	.004	.004	0	%100
78	FFBH3	Z	.004	.004	0	%100
79	MP-1	Z	.007	.007	0	%100
80	MP-2	Z	.007	.007	0	%100
81	MP-3	Z	.007	.007	0	%100
82	MP-4	Z	.007	.007	0	%100
83	SF2-TH	Z	.000415	.000415	0	%100
84	SF2-BH	Z	.000415	.000415	0	%100
85	SF2-V1	Z	.002	.002	0	%100
86	SF2-V2	Z	.002	.002	0	%100
87	SF2-D1	Z	.002	.002	0	%100
88	SF3-TH	Z	.005	.005	0	%100
89	SF3-BH	Z	.005	.005	0	%100
90	SF3-V1	Z	.002	.002	0	%100
91	SF3-V2	Z	.002	.002	0	%100
92	SF3-D1	Z	.002	.002	0	%100
93	BC-TH	Z	.001	.001	0	%100
94	BC-BH	Z	.001	.001	0	%100
95	SA-1	Z	.006	.006	0	%100
96	M24	Z	.004	.004	0	%100
97	M25	Z	.004	.004	0	%100
98	M26	Z	.004	.004	0	%100
99	M27	Z	.004	.004	0	%100
100	M28	Z	.004	.004	0	%100
101	M29	Z	.004	.004	0	%100
102	MP-9	Z	.007	.007	0	%100
103	MP-10	Z	.007	.007	0	%100
104	MP-11	Z	.007	.007	0	%100
105	MP-12	Z	.007	.007	0	%100
106	M34	Z	.006	.006	0	%100
107	M35	Z	.006	.006	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 15 : 300 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
108	M36	Z	.002	.002	0	%100
109	M37	Z	.002	.002	0	%100
110	M38	Z	.002	.002	0	%100
111	M39	Z	.000387	.000387	0	%100
112	M40	Z	.000387	.000387	0	%100
113	M41	Z	.002	.002	0	%100
114	M42	Z	.002	.002	0	%100
115	M43	Z	.002	.002	0	%100
116	M44	Z	.001	.001	0	%100
117	M45	Z	.001	.001	0	%100
118	M46	Z	.003	.003	0	%100
119	M47	Z	.007	.007	0	%100
120	M48	Z	.007	.007	0	%100
121	M49	Z	.007	.007	0	%100
122	M50	Z	.007	.007	0	%100
123	M51	Z	.007	.007	0	%100
124	M52	Z	.007	.007	0	%100
125	MP-5	Z	.007	.007	0	%100
126	MP-6	Z	.007	.007	0	%100
127	MP-7	Z	.007	.007	0	%100
128	MP-8	Z	.007	.007	0	%100
129	M57	Z	.004	.004	0	%100
130	M58	Z	.004	.004	0	%100
131	M59	Z	.002	.002	0	%100
132	M60	Z	.002	.002	0	%100
133	M61	Z	.002	.002	0	%100
134	M62	Z	.006	.006	0	%100
135	M63	Z	.006	.006	0	%100
136	M64	Z	.002	.002	0	%100
137	M65	Z	.002	.002	0	%100
138	M66	Z	.002	.002	0	%100
139	M67	Z	.003	.003	0	%100
140	M68	Z	.003	.003	0	%100
141	M69	Z	.003	.003	0	%100
142	Mast	Z	.008	.008	0	%100
143	M71	Z	.008	.008	0	%100
144	M72	Z	.008	.008	0	%100

**Member Distributed Loads (BLC 16 : 315 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-0.04	-0.04	0	%100
2	FFTH2	X	-0.04	-0.04	0	%100
3	FFTH3	X	-0.04	-0.04	0	%100
4	FFBH1	X	-0.04	-0.04	0	%100
5	FFBH2	X	-0.04	-0.04	0	%100
6	FFBH3	X	-0.04	-0.04	0	%100
7	MP-1	X	-0.006	-0.006	0	%100
8	MP-2	X	-0.006	-0.006	0	%100
9	MP-3	X	-0.006	-0.006	0	%100
10	MP-4	X	-0.006	-0.006	0	%100
11	SF2-TH	X	-0.00977	-0.00977	0	%100
12	SF2-BH	X	-0.00977	-0.00977	0	%100
13	SF2-V1	X	-0.002	-0.002	0	%100
14	SF2-V2	X	-0.002	-0.002	0	%100
15	SF2-D1	X	-0.002	-0.002	0	%100
16	SF3-TH	X	-0.005	-0.005	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
17	SF3-BH	X	-.005	-.005	0	%100
18	SF3-V1	X	-.002	-.002	0	%100
19	SF3-V2	X	-.002	-.002	0	%100
20	SF3-D1	X	-.002	-.002	0	%100
21	BC-TH	X	-.002	-.002	0	%100
22	BC-BH	X	-.002	-.002	0	%100
23	SA-1	X	-.004	-.004	0	%100
24	M24	X	-.002	-.002	0	%100
25	M25	X	-.002	-.002	0	%100
26	M26	X	-.002	-.002	0	%100
27	M27	X	-.002	-.002	0	%100
28	M28	X	-.002	-.002	0	%100
29	M29	X	-.002	-.002	0	%100
30	MP-9	X	-.006	-.006	0	%100
31	MP-10	X	-.006	-.006	0	%100
32	MP-11	X	-.006	-.006	0	%100
33	MP-12	X	-.006	-.006	0	%100
34	M34	X	-.003	-.003	0	%100
35	M35	X	-.003	-.003	0	%100
36	M36	X	-.002	-.002	0	%100
37	M37	X	-.002	-.002	0	%100
38	M38	X	-.002	-.002	0	%100
39	M39	X	-.002	-.002	0	%100
40	M40	X	-.002	-.002	0	%100
41	M41	X	-.002	-.002	0	%100
42	M42	X	-.002	-.002	0	%100
43	M43	X	-.002	-.002	0	%100
44	M44	X	-.000509	-.000509	0	%100
45	M45	X	-.000509	-.000509	0	%100
46	M46	X	-.004	-.004	0	%100
47	M47	X	-.006	-.006	0	%100
48	M48	X	-.006	-.006	0	%100
49	M49	X	-.006	-.006	0	%100
50	M50	X	-.006	-.006	0	%100
51	M51	X	-.006	-.006	0	%100
52	M52	X	-.006	-.006	0	%100
53	MP-5	X	-.006	-.006	0	%100
54	MP-6	X	-.006	-.006	0	%100
55	MP-7	X	-.006	-.006	0	%100
56	MP-8	X	-.006	-.006	0	%100
57	M57	X	-.005	-.005	0	%100
58	M58	X	-.005	-.005	0	%100
59	M59	X	-.002	-.002	0	%100
60	M60	X	-.002	-.002	0	%100
61	M61	X	-.002	-.002	0	%100
62	M62	X	-.002	-.002	0	%100
63	M63	X	-.002	-.002	0	%100
64	M64	X	-.002	-.002	0	%100
65	M65	X	-.002	-.002	0	%100
66	M66	X	-.002	-.002	0	%100
67	M67	X	-.002	-.002	0	%100
68	M68	X	-.002	-.002	0	%100
69	M69	X	-.001	-.001	0	%100
70	Mast	X	-.007	-.007	0	%100
71	M71	X	-.007	-.007	0	%100
72	M72	X	-.007	-.007	0	%100
73	FFTH1	Z	.004	.004	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
74	FFTH2	Z	.004	.004	0	%100
75	FFTH3	Z	.004	.004	0	%100
76	FFBH1	Z	.004	.004	0	%100
77	FFBH2	Z	.004	.004	0	%100
78	FFBH3	Z	.004	.004	0	%100
79	MP-1	Z	.006	.006	0	%100
80	MP-2	Z	.006	.006	0	%100
81	MP-3	Z	.006	.006	0	%100
82	MP-4	Z	.006	.006	0	%100
83	SF2-TH	Z	.000858	.000858	0	%100
84	SF2-BH	Z	.000858	.000858	0	%100
85	SF2-V1	Z	.002	.002	0	%100
86	SF2-V2	Z	.002	.002	0	%100
87	SF2-D1	Z	.002	.002	0	%100
88	SF3-TH	Z	.005	.005	0	%100
89	SF3-BH	Z	.005	.005	0	%100
90	SF3-V1	Z	.002	.002	0	%100
91	SF3-V2	Z	.002	.002	0	%100
92	SF3-D1	Z	.002	.002	0	%100
93	BC-TH	Z	.002	.002	0	%100
94	BC-BH	Z	.002	.002	0	%100
95	SA-1	Z	.005	.005	0	%100
96	M24	Z	.002	.002	0	%100
97	M25	Z	.002	.002	0	%100
98	M26	Z	.002	.002	0	%100
99	M27	Z	.002	.002	0	%100
100	M28	Z	.002	.002	0	%100
101	M29	Z	.002	.002	0	%100
102	MP-9	Z	.006	.006	0	%100
103	MP-10	Z	.006	.006	0	%100
104	MP-11	Z	.006	.006	0	%100
105	MP-12	Z	.006	.006	0	%100
106	M34	Z	.004	.004	0	%100
107	M35	Z	.004	.004	0	%100
108	M36	Z	.002	.002	0	%100
109	M37	Z	.002	.002	0	%100
110	M38	Z	.002	.002	0	%100
111	M39	Z	.001	.001	0	%100
112	M40	Z	.001	.001	0	%100
113	M41	Z	.002	.002	0	%100
114	M42	Z	.002	.002	0	%100
115	M43	Z	.002	.002	0	%100
116	M44	Z	.00059	.00059	0	%100
117	M45	Z	.00059	.00059	0	%100
118	M46	Z	.004	.004	0	%100
119	M47	Z	.006	.006	0	%100
120	M48	Z	.006	.006	0	%100
121	M49	Z	.006	.006	0	%100
122	M50	Z	.006	.006	0	%100
123	M51	Z	.006	.006	0	%100
124	M52	Z	.006	.006	0	%100
125	MP-5	Z	.006	.006	0	%100
126	MP-6	Z	.006	.006	0	%100
127	MP-7	Z	.006	.006	0	%100
128	MP-8	Z	.006	.006	0	%100
129	M57	Z	.004	.004	0	%100
130	M58	Z	.004	.004	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 16 : 315 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
131	M59	Z	.002	.002	0	%100
132	M60	Z	.002	.002	0	%100
133	M61	Z	.002	.002	0	%100
134	M62	Z	.004	.004	0	%100
135	M63	Z	.004	.004	0	%100
136	M64	Z	.002	.002	0	%100
137	M65	Z	.002	.002	0	%100
138	M66	Z	.002	.002	0	%100
139	M67	Z	.002	.002	0	%100
140	M68	Z	.002	.002	0	%100
141	M69	Z	.001	.001	0	%100
142	Mast	Z	.007	.007	0	%100
143	M71	Z	.007	.007	0	%100
144	M72	Z	.007	.007	0	%100

**Member Distributed Loads (BLC 17 : 330 Wind - No Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-.006	-.006	0	%100
2	FFTH2	X	-.006	-.006	0	%100
3	FFTH3	X	-.006	-.006	0	%100
4	FFBH1	X	-.006	-.006	0	%100
5	FFBH2	X	-.006	-.006	0	%100
6	FFBH3	X	-.006	-.006	0	%100
7	MP-1	X	-.007	-.007	0	%100
8	MP-2	X	-.007	-.007	0	%100
9	MP-3	X	-.007	-.007	0	%100
10	MP-4	X	-.007	-.007	0	%100
11	SF2-TH	X	-.003	-.003	0	%100
12	SF2-BH	X	-.003	-.003	0	%100
13	SF2-V1	X	-.002	-.002	0	%100
14	SF2-V2	X	-.002	-.002	0	%100
15	SF2-D1	X	-.002	-.002	0	%100
16	SF3-TH	X	-.006	-.006	0	%100
17	SF3-BH	X	-.006	-.006	0	%100
18	SF3-V1	X	-.002	-.002	0	%100
19	SF3-V2	X	-.002	-.002	0	%100
20	SF3-D1	X	-.002	-.002	0	%100
21	BC-TH	X	-.003	-.003	0	%100
22	BC-BH	X	-.003	-.003	0	%100
23	SA-1	X	-.004	-.004	0	%100
24	M24	X	0	0	0	%100
25	M25	X	0	0	0	%100
26	M26	X	0	0	0	%100
27	M27	X	0	0	0	%100
28	M28	X	0	0	0	%100
29	M29	X	0	0	0	%100
30	MP-9	X	-.007	-.007	0	%100
31	MP-10	X	-.007	-.007	0	%100
32	MP-11	X	-.007	-.007	0	%100
33	MP-12	X	-.007	-.007	0	%100
34	M34	X	-.002	-.002	0	%100
35	M35	X	-.002	-.002	0	%100
36	M36	X	-.002	-.002	0	%100
37	M37	X	-.002	-.002	0	%100
38	M38	X	-.002	-.002	0	%100
39	M39	X	-.004	-.004	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
40	M40	X	-.004	-.004	0	%100
41	M41	X	-.002	-.002	0	%100
42	M42	X	-.002	-.002	0	%100
43	M43	X	-.002	-.002	0	%100
44	M44	X	0	0	0	%100
45	M45	X	0	0	0	%100
46	M46	X	-.005	-.005	0	%100
47	M47	X	-.006	-.006	0	%100
48	M48	X	-.006	-.006	0	%100
49	M49	X	-.006	-.006	0	%100
50	M50	X	-.006	-.006	0	%100
51	M51	X	-.006	-.006	0	%100
52	M52	X	-.006	-.006	0	%100
53	MP-5	X	-.007	-.007	0	%100
54	MP-6	X	-.007	-.007	0	%100
55	MP-7	X	-.007	-.007	0	%100
56	MP-8	X	-.007	-.007	0	%100
57	M57	X	-.007	-.007	0	%100
58	M58	X	-.007	-.007	0	%100
59	M59	X	-.002	-.002	0	%100
60	M60	X	-.002	-.002	0	%100
61	M61	X	-.002	-.002	0	%100
62	M62	X	-.002	-.002	0	%100
63	M63	X	-.002	-.002	0	%100
64	M64	X	-.002	-.002	0	%100
65	M65	X	-.002	-.002	0	%100
66	M66	X	-.002	-.002	0	%100
67	M67	X	-.002	-.002	0	%100
68	M68	X	-.002	-.002	0	%100
69	M69	X	0	0	0	%100
70	Mast	X	-.008	-.008	0	%100
71	M71	X	-.008	-.008	0	%100
72	M72	X	-.008	-.008	0	%100
73	FFTH1	Z	.004	.004	0	%100
74	FFTH2	Z	.004	.004	0	%100
75	FFTH3	Z	.004	.004	0	%100
76	FFBH1	Z	.004	.004	0	%100
77	FFBH2	Z	.004	.004	0	%100
78	FFBH3	Z	.004	.004	0	%100
79	MP-1	Z	.004	.004	0	%100
80	MP-2	Z	.004	.004	0	%100
81	MP-3	Z	.004	.004	0	%100
82	MP-4	Z	.004	.004	0	%100
83	SF2-TH	Z	.001	.001	0	%100
84	SF2-BH	Z	.001	.001	0	%100
85	SF2-V1	Z	.001	.001	0	%100
86	SF2-V2	Z	.001	.001	0	%100
87	SF2-D1	Z	.001	.001	0	%100
88	SF3-TH	Z	.003	.003	0	%100
89	SF3-BH	Z	.003	.003	0	%100
90	SF3-V1	Z	.001	.001	0	%100
91	SF3-V2	Z	.001	.001	0	%100
92	SF3-D1	Z	.001	.001	0	%100
93	BC-TH	Z	.001	.001	0	%100
94	BC-BH	Z	.001	.001	0	%100
95	SA-1	Z	.003	.003	0	%100
96	M24	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
97	M25	Z	0	0	%100
98	M26	Z	0	0	%100
99	M27	Z	0	0	%100
100	M28	Z	0	0	%100
101	M29	Z	0	0	%100
102	MP-9	Z	.004	.004	%100
103	MP-10	Z	.004	.004	%100
104	MP-11	Z	.004	.004	%100
105	MP-12	Z	.004	.004	%100
106	M34	Z	.002	.002	%100
107	M35	Z	.002	.002	%100
108	M36	Z	.001	.001	%100
109	M37	Z	.001	.001	%100
110	M38	Z	.001	.001	%100
111	M39	Z	.002	.002	%100
112	M40	Z	.002	.002	%100
113	M41	Z	.001	.001	%100
114	M42	Z	.001	.001	%100
115	M43	Z	.001	.001	%100
116	M44	Z	0	0	%100
117	M45	Z	0	0	%100
118	M46	Z	.003	.003	%100
119	M47	Z	.004	.004	%100
120	M48	Z	.004	.004	%100
121	M49	Z	.004	.004	%100
122	M50	Z	.004	.004	%100
123	M51	Z	.004	.004	%100
124	M52	Z	.004	.004	%100
125	MP-5	Z	.004	.004	%100
126	MP-6	Z	.004	.004	%100
127	MP-7	Z	.004	.004	%100
128	MP-8	Z	.004	.004	%100
129	M57	Z	.003	.003	%100
130	M58	Z	.003	.003	%100
131	M59	Z	.001	.001	%100
132	M60	Z	.001	.001	%100
133	M61	Z	.001	.001	%100
134	M62	Z	.002	.002	%100
135	M63	Z	.002	.002	%100
136	M64	Z	.001	.001	%100
137	M65	Z	.001	.001	%100
138	M66	Z	.001	.001	%100
139	M67	Z	.001	.001	%100
140	M68	Z	.001	.001	%100
141	M69	Z	0	0	%100
142	Mast	Z	.005	.005	%100
143	M71	Z	.005	.005	%100
144	M72	Z	.005	.005	%100

**Member Distributed Loads (BLC 18 : Ice Weight)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	FFTH1	Y	-.005	-.005	0
2	FFTH2	Y	-.005	-.005	0
3	FFTH3	Y	-.005	-.005	0
4	FFBH1	Y	-.005	-.005	0
5	FFBH2	Y	-.005	-.005	0



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 18 : Ice Weight) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
6	FFBH3	Y	-.005	-.005	0
7	MP-1	Y	-.005	-.005	0
8	MP-2	Y	-.005	-.005	0
9	MP-3	Y	-.005	-.005	0
10	MP-4	Y	-.005	-.005	0
11	SF2-TH	Y	-.005	-.005	0
12	SF2-BH	Y	-.005	-.005	0
13	SF2-V1	Y	-.003	-.003	0
14	SF2-V2	Y	-.003	-.003	0
15	SF2-D1	Y	-.003	-.003	0
16	SF3-TH	Y	-.005	-.005	0
17	SF3-BH	Y	-.005	-.005	0
18	SF3-V1	Y	-.003	-.003	0
19	SF3-V2	Y	-.003	-.003	0
20	SF3-D1	Y	-.003	-.003	0
21	BC-TH	Y	-.006	-.006	0
22	BC-BH	Y	-.006	-.006	0
23	SA-1	Y	-.005	-.005	0
24	M24	Y	-.005	-.005	0
25	M25	Y	-.005	-.005	0
26	M26	Y	-.005	-.005	0
27	M27	Y	-.005	-.005	0
28	M28	Y	-.005	-.005	0
29	M29	Y	-.005	-.005	0
30	MP-9	Y	-.005	-.005	0
31	MP-10	Y	-.005	-.005	0
32	MP-11	Y	-.005	-.005	0
33	MP-12	Y	-.005	-.005	0
34	M34	Y	-.005	-.005	0
35	M35	Y	-.005	-.005	0
36	M36	Y	-.003	-.003	0
37	M37	Y	-.003	-.003	0
38	M38	Y	-.003	-.003	0
39	M39	Y	-.005	-.005	0
40	M40	Y	-.005	-.005	0
41	M41	Y	-.003	-.003	0
42	M42	Y	-.003	-.003	0
43	M43	Y	-.003	-.003	0
44	M44	Y	-.006	-.006	0
45	M45	Y	-.006	-.006	0
46	M46	Y	-.005	-.005	0
47	M47	Y	-.005	-.005	0
48	M48	Y	-.005	-.005	0
49	M49	Y	-.005	-.005	0
50	M50	Y	-.005	-.005	0
51	M51	Y	-.005	-.005	0
52	M52	Y	-.005	-.005	0
53	MP-5	Y	-.005	-.005	0
54	MP-6	Y	-.005	-.005	0
55	MP-7	Y	-.005	-.005	0
56	MP-8	Y	-.005	-.005	0
57	M57	Y	-.005	-.005	0
58	M58	Y	-.005	-.005	0
59	M59	Y	-.003	-.003	0
60	M60	Y	-.003	-.003	0
61	M61	Y	-.003	-.003	0
62	M62	Y	-.005	-.005	0



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 18 : Ice Weight) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
63	M63	Y	-0.05	-0.05	0	%100
64	M64	Y	-0.003	-0.003	0	%100
65	M65	Y	-0.003	-0.003	0	%100
66	M66	Y	-0.003	-0.003	0	%100
67	M67	Y	-0.006	-0.006	0	%100
68	M68	Y	-0.006	-0.006	0	%100
69	M69	Y	-0.005	-0.005	0	%100
70	Mast	Y	-0.008	-0.008	0	%100
71	M71	Y	-0.008	-0.008	0	%100
72	M72	Y	-0.008	-0.008	0	%100

**Member Distributed Loads (BLC 19 : 0 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-0.003	-0.003	0	%100
2	FFTH2	X	-0.003	-0.003	0	%100
3	FFTH3	X	-0.003	-0.003	0	%100
4	FFBH1	X	-0.003	-0.003	0	%100
5	FFBH2	X	-0.003	-0.003	0	%100
6	FFBH3	X	-0.003	-0.003	0	%100
7	MP-1	X	-0.002	-0.002	0	%100
8	MP-2	X	-0.002	-0.002	0	%100
9	MP-3	X	-0.002	-0.002	0	%100
10	MP-4	X	-0.002	-0.002	0	%100
11	SF2-TH	X	-0.002	-0.002	0	%100
12	SF2-BH	X	-0.002	-0.002	0	%100
13	SF2-V1	X	-0.001	-0.001	0	%100
14	SF2-V2	X	-0.001	-0.001	0	%100
15	SF2-D1	X	-0.001	-0.001	0	%100
16	SF3-TH	X	-0.002	-0.002	0	%100
17	SF3-BH	X	-0.002	-0.002	0	%100
18	SF3-V1	X	-0.001	-0.001	0	%100
19	SF3-V2	X	-0.001	-0.001	0	%100
20	SF3-D1	X	-0.001	-0.001	0	%100
21	BC-TH	X	-0.002	-0.002	0	%100
22	BC-BH	X	-0.002	-0.002	0	%100
23	SA-1	X	-0.002	-0.002	0	%100
24	M24	X	-0.002	-0.002	0	%100
25	M25	X	-0.002	-0.002	0	%100
26	M26	X	-0.002	-0.002	0	%100
27	M27	X	-0.002	-0.002	0	%100
28	M28	X	-0.002	-0.002	0	%100
29	M29	X	-0.002	-0.002	0	%100
30	MP-9	X	-0.002	-0.002	0	%100
31	MP-10	X	-0.002	-0.002	0	%100
32	MP-11	X	-0.002	-0.002	0	%100
33	MP-12	X	-0.002	-0.002	0	%100
34	M34	X	-0.002	-0.002	0	%100
35	M35	X	-0.002	-0.002	0	%100
36	M36	X	-0.001	-0.001	0	%100
37	M37	X	-0.001	-0.001	0	%100
38	M38	X	-0.001	-0.001	0	%100
39	M39	X	-0.002	-0.002	0	%100
40	M40	X	-0.002	-0.002	0	%100
41	M41	X	-0.001	-0.001	0	%100
42	M42	X	-0.001	-0.001	0	%100
43	M43	X	-0.001	-0.001	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
44	M44	X	-0.002	-0.002	0	%100
45	M45	X	-0.002	-0.002	0	%100
46	M46	X	-0.002	-0.002	0	%100
47	M47	X	-0.002	-0.002	0	%100
48	M48	X	-0.002	-0.002	0	%100
49	M49	X	-0.002	-0.002	0	%100
50	M50	X	-0.002	-0.002	0	%100
51	M51	X	-0.002	-0.002	0	%100
52	M52	X	-0.002	-0.002	0	%100
53	MP-5	X	-0.002	-0.002	0	%100
54	MP-6	X	-0.002	-0.002	0	%100
55	MP-7	X	-0.002	-0.002	0	%100
56	MP-8	X	-0.002	-0.002	0	%100
57	M57	X	-0.002	-0.002	0	%100
58	M58	X	-0.002	-0.002	0	%100
59	M59	X	-0.001	-0.001	0	%100
60	M60	X	-0.001	-0.001	0	%100
61	M61	X	-0.001	-0.001	0	%100
62	M62	X	-0.002	-0.002	0	%100
63	M63	X	-0.002	-0.002	0	%100
64	M64	X	-0.001	-0.001	0	%100
65	M65	X	-0.001	-0.001	0	%100
66	M66	X	-0.001	-0.001	0	%100
67	M67	X	-0.002	-0.002	0	%100
68	M68	X	-0.002	-0.002	0	%100
69	M69	X	-0.002	-0.002	0	%100
70	Mast	X	-0.003	-0.003	0	%100
71	M71	X	-0.003	-0.003	0	%100
72	M72	X	-0.003	-0.003	0	%100

**Member Distributed Loads (BLC 20 : 30 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-0.002	-0.002	0	%100
2	FFTH2	X	-0.002	-0.002	0	%100
3	FFTH3	X	-0.002	-0.002	0	%100
4	FFBH1	X	-0.002	-0.002	0	%100
5	FFBH2	X	-0.002	-0.002	0	%100
6	FFBH3	X	-0.002	-0.002	0	%100
7	MP-1	X	-0.002	-0.002	0	%100
8	MP-2	X	-0.002	-0.002	0	%100
9	MP-3	X	-0.002	-0.002	0	%100
10	MP-4	X	-0.002	-0.002	0	%100
11	SF2-TH	X	-0.002	-0.002	0	%100
12	SF2-BH	X	-0.002	-0.002	0	%100
13	SF2-V1	X	-0.001	-0.001	0	%100
14	SF2-V2	X	-0.001	-0.001	0	%100
15	SF2-D1	X	-0.001	-0.001	0	%100
16	SF3-TH	X	-0.000754	-0.000754	0	%100
17	SF3-BH	X	-0.000754	-0.000754	0	%100
18	SF3-V1	X	-0.001	-0.001	0	%100
19	SF3-V2	X	-0.001	-0.001	0	%100
20	SF3-D1	X	-0.001	-0.001	0	%100
21	BC-TH	X	-0.002	-0.002	0	%100
22	BC-BH	X	-0.002	-0.002	0	%100
23	SA-1	X	0	0	0	%100
24	M24	X	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
25	M25	X	-0.02	-0.02	0	%100
26	M26	X	-0.02	-0.02	0	%100
27	M27	X	-0.02	-0.02	0	%100
28	M28	X	-0.02	-0.02	0	%100
29	M29	X	-0.02	-0.02	0	%100
30	MP-9	X	-0.02	-0.02	0	%100
31	MP-10	X	-0.02	-0.02	0	%100
32	MP-11	X	-0.02	-0.02	0	%100
33	MP-12	X	-0.02	-0.02	0	%100
34	M34	X	-0.00616	-0.00616	0	%100
35	M35	X	-0.00616	-0.00616	0	%100
36	M36	X	-0.01	-0.01	0	%100
37	M37	X	-0.01	-0.01	0	%100
38	M38	X	-0.01	-0.01	0	%100
39	M39	X	-0.02	-0.02	0	%100
40	M40	X	-0.02	-0.02	0	%100
41	M41	X	-0.01	-0.01	0	%100
42	M42	X	-0.01	-0.01	0	%100
43	M43	X	-0.01	-0.01	0	%100
44	M44	X	-0.02	-0.02	0	%100
45	M45	X	-0.02	-0.02	0	%100
46	M46	X	-0.01	-0.01	0	%100
47	M47	X	0	0	0	%100
48	M48	X	0	0	0	%100
49	M49	X	0	0	0	%100
50	M50	X	0	0	0	%100
51	M51	X	0	0	0	%100
52	M52	X	0	0	0	%100
53	MP-5	X	-0.02	-0.02	0	%100
54	MP-6	X	-0.02	-0.02	0	%100
55	MP-7	X	-0.02	-0.02	0	%100
56	MP-8	X	-0.02	-0.02	0	%100
57	M57	X	-0.00995	-0.00995	0	%100
58	M58	X	-0.00995	-0.00995	0	%100
59	M59	X	-0.01	-0.01	0	%100
60	M60	X	-0.01	-0.01	0	%100
61	M61	X	-0.01	-0.01	0	%100
62	M62	X	-0.00797	-0.00797	0	%100
63	M63	X	-0.00797	-0.00797	0	%100
64	M64	X	-0.01	-0.01	0	%100
65	M65	X	-0.01	-0.01	0	%100
66	M66	X	-0.01	-0.01	0	%100
67	M67	X	0	0	0	%100
68	M68	X	0	0	0	%100
69	M69	X	-0.01	-0.01	0	%100
70	Mast	X	-0.02	-0.02	0	%100
71	M71	X	-0.02	-0.02	0	%100
72	M72	X	-0.02	-0.02	0	%100
73	FFTH1	Z	-0.01	-0.01	0	%100
74	FFTH2	Z	-0.01	-0.01	0	%100
75	FFTH3	Z	-0.01	-0.01	0	%100
76	FFBH1	Z	-0.01	-0.01	0	%100
77	FFBH2	Z	-0.01	-0.01	0	%100
78	FFBH3	Z	-0.01	-0.01	0	%100
79	MP-1	Z	-0.01	-0.01	0	%100
80	MP-2	Z	-0.01	-0.01	0	%100
81	MP-3	Z	-0.01	-0.01	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
82	MP-4	Z	-0.01	-0.01	0	%100
83	SF2-TH	Z	-0.00923	-0.00923	0	%100
84	SF2-BH	Z	-0.00923	-0.00923	0	%100
85	SF2-V1	Z	-0.00712	-0.00712	0	%100
86	SF2-V2	Z	-0.00712	-0.00712	0	%100
87	SF2-D1	Z	-0.0081	-0.0081	0	%100
88	SF3-TH	Z	-0.00402	-0.00402	0	%100
89	SF3-BH	Z	-0.00402	-0.00402	0	%100
90	SF3-V1	Z	-0.00712	-0.00712	0	%100
91	SF3-V2	Z	-0.00712	-0.00712	0	%100
92	SF3-D1	Z	-0.0081	-0.0081	0	%100
93	BC-TH	Z	-0.00848	-0.00848	0	%100
94	BC-BH	Z	-0.00848	-0.00848	0	%100
95	SA-1	Z	0	0	0	%100
96	M24	Z	-0.01	-0.01	0	%100
97	M25	Z	-0.01	-0.01	0	%100
98	M26	Z	-0.01	-0.01	0	%100
99	M27	Z	-0.01	-0.01	0	%100
100	M28	Z	-0.01	-0.01	0	%100
101	M29	Z	-0.01	-0.01	0	%100
102	MP-9	Z	-0.01	-0.01	0	%100
103	MP-10	Z	-0.01	-0.01	0	%100
104	MP-11	Z	-0.01	-0.01	0	%100
105	MP-12	Z	-0.01	-0.01	0	%100
106	M34	Z	-0.00456	-0.00456	0	%100
107	M35	Z	-0.00456	-0.00456	0	%100
108	M36	Z	-0.00712	-0.00712	0	%100
109	M37	Z	-0.00712	-0.00712	0	%100
110	M38	Z	-0.0081	-0.0081	0	%100
111	M39	Z	-0.00887	-0.00887	0	%100
112	M40	Z	-0.00887	-0.00887	0	%100
113	M41	Z	-0.00712	-0.00712	0	%100
114	M42	Z	-0.00712	-0.00712	0	%100
115	M43	Z	-0.0081	-0.0081	0	%100
116	M44	Z	-0.00924	-0.00924	0	%100
117	M45	Z	-0.00924	-0.00924	0	%100
118	M46	Z	-0.00778	-0.00778	0	%100
119	M47	Z	0	0	0	%100
120	M48	Z	0	0	0	%100
121	M49	Z	0	0	0	%100
122	M50	Z	0	0	0	%100
123	M51	Z	0	0	0	%100
124	M52	Z	0	0	0	%100
125	MP-5	Z	-0.01	-0.01	0	%100
126	MP-6	Z	-0.01	-0.01	0	%100
127	MP-7	Z	-0.01	-0.01	0	%100
128	MP-8	Z	-0.01	-0.01	0	%100
129	M57	Z	-0.005	-0.005	0	%100
130	M58	Z	-0.005	-0.005	0	%100
131	M59	Z	-0.00712	-0.00712	0	%100
132	M60	Z	-0.00712	-0.00712	0	%100
133	M61	Z	-0.0081	-0.0081	0	%100
134	M62	Z	-0.0059	-0.0059	0	%100
135	M63	Z	-0.0059	-0.0059	0	%100
136	M64	Z	-0.00712	-0.00712	0	%100
137	M65	Z	-0.00712	-0.00712	0	%100
138	M66	Z	-0.0081	-0.0081	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
139	M67	Z	0	0	%100
140	M68	Z	0	0	%100
141	M69	Z	-0.00839	-0.00839	0
142	Mast	Z	-0.002	-0.002	0
143	M71	Z	-0.002	-0.002	0
144	M72	Z	-0.002	-0.002	0

**Member Distributed Loads (BLC 21 : 45 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	FFTH1	X	-0.001	-0.001	0
2	FFTH2	X	-0.001	-0.001	0
3	FFTH3	X	-0.001	-0.001	0
4	FFBH1	X	-0.001	-0.001	0
5	FFBH2	X	-0.001	-0.001	0
6	FFBH3	X	-0.001	-0.001	0
7	MP-1	X	-0.002	-0.002	0
8	MP-2	X	-0.002	-0.002	0
9	MP-3	X	-0.002	-0.002	0
10	MP-4	X	-0.002	-0.002	0
11	SF2-TH	X	-0.001	-0.001	0
12	SF2-BH	X	-0.001	-0.001	0
13	SF2-V1	X	-0.00906	-0.00906	0
14	SF2-V2	X	-0.00906	-0.00906	0
15	SF2-D1	X	-0.001	-0.001	0
16	SF3-TH	X	-0.00264	-0.00264	0
17	SF3-BH	X	-0.00264	-0.00264	0
18	SF3-V1	X	-0.00906	-0.00906	0
19	SF3-V2	X	-0.00906	-0.00906	0
20	SF3-D1	X	-0.001	-0.001	0
21	BC-TH	X	-0.001	-0.001	0
22	BC-BH	X	-0.001	-0.001	0
23	SA-1	X	-0.00325	-0.00325	0
24	M24	X	-0.002	-0.002	0
25	M25	X	-0.002	-0.002	0
26	M26	X	-0.002	-0.002	0
27	M27	X	-0.002	-0.002	0
28	M28	X	-0.002	-0.002	0
29	M29	X	-0.002	-0.002	0
30	MP-9	X	-0.002	-0.002	0
31	MP-10	X	-0.002	-0.002	0
32	MP-11	X	-0.002	-0.002	0
33	MP-12	X	-0.002	-0.002	0
34	M34	X	-0.00755	-0.00755	0
35	M35	X	-0.00755	-0.00755	0
36	M36	X	-0.00906	-0.00906	0
37	M37	X	-0.00906	-0.00906	0
38	M38	X	-0.001	-0.001	0
39	M39	X	-0.001	-0.001	0
40	M40	X	-0.001	-0.001	0
41	M41	X	-0.00906	-0.00906	0
42	M42	X	-0.00906	-0.00906	0
43	M43	X	-0.001	-0.001	0
44	M44	X	-0.001	-0.001	0
45	M45	X	-0.001	-0.001	0
46	M46	X	-0.00998	-0.00998	0
47	M47	X	-0.00426	-0.00426	0



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
48	M48	X	-0.00426	-0.00426	0
49	M49	X	-0.00426	-0.00426	0
50	M50	X	-0.00426	-0.00426	0
51	M51	X	-0.00426	-0.00426	0
52	M52	X	-0.00426	-0.00426	0
53	MP-5	X	-0.002	-0.002	0
54	MP-6	X	-0.002	-0.002	0
55	MP-7	X	-0.002	-0.002	0
56	MP-8	X	-0.002	-0.002	0
57	M57	X	-0.00476	-0.00476	0
58	M58	X	-0.00476	-0.00476	0
59	M59	X	-0.00906	-0.00906	0
60	M60	X	-0.00906	-0.00906	0
61	M61	X	-0.001	-0.001	0
62	M62	X	-0.00876	-0.00876	0
63	M63	X	-0.00876	-0.00876	0
64	M64	X	-0.00906	-0.00906	0
65	M65	X	-0.00906	-0.00906	0
66	M66	X	-0.001	-0.001	0
67	M67	X	-0.0037	-0.0037	0
68	M68	X	-0.0037	-0.0037	0
69	M69	X	-0.001	-0.001	0
70	Mast	X	-0.002	-0.002	0
71	M71	X	-0.002	-0.002	0
72	M72	X	-0.002	-0.002	0
73	FFTH1	Z	-0.001	-0.001	0
74	FFTH2	Z	-0.001	-0.001	0
75	FFTH3	Z	-0.001	-0.001	0
76	FFBH1	Z	-0.001	-0.001	0
77	FFBH2	Z	-0.001	-0.001	0
78	FFBH3	Z	-0.001	-0.001	0
79	MP-1	Z	-0.002	-0.002	0
80	MP-2	Z	-0.002	-0.002	0
81	MP-3	Z	-0.002	-0.002	0
82	MP-4	Z	-0.002	-0.002	0
83	SF2-TH	Z	-0.001	-0.001	0
84	SF2-BH	Z	-0.001	-0.001	0
85	SF2-V1	Z	-0.001	-0.001	0
86	SF2-V2	Z	-0.001	-0.001	0
87	SF2-D1	Z	-0.001	-0.001	0
88	SF3-TH	Z	-0.00245	-0.00245	0
89	SF3-BH	Z	-0.00245	-0.00245	0
90	SF3-V1	Z	-0.001	-0.001	0
91	SF3-V2	Z	-0.001	-0.001	0
92	SF3-D1	Z	-0.001	-0.001	0
93	BC-TH	Z	-0.00979	-0.00979	0
94	BC-BH	Z	-0.00979	-0.00979	0
95	SA-1	Z	-0.00354	-0.00354	0
96	M24	Z	-0.002	-0.002	0
97	M25	Z	-0.002	-0.002	0
98	M26	Z	-0.002	-0.002	0
99	M27	Z	-0.002	-0.002	0
100	M28	Z	-0.002	-0.002	0
101	M29	Z	-0.002	-0.002	0
102	MP-9	Z	-0.002	-0.002	0
103	MP-10	Z	-0.002	-0.002	0
104	MP-11	Z	-0.002	-0.002	0





Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 21 : 45 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
105	MP-12	Z	-0.002	-0.002	0	%100
106	M34	Z	-0.000969	-0.000969	0	%100
107	M35	Z	-0.000969	-0.000969	0	%100
108	M36	Z	-0.001	-0.001	0	%100
109	M37	Z	-0.001	-0.001	0	%100
110	M38	Z	-0.001	-0.001	0	%100
111	M39	Z	-0.001	-0.001	0	%100
112	M40	Z	-0.001	-0.001	0	%100
113	M41	Z	-0.001	-0.001	0	%100
114	M42	Z	-0.001	-0.001	0	%100
115	M43	Z	-0.001	-0.001	0	%100
116	M44	Z	-0.001	-0.001	0	%100
117	M45	Z	-0.001	-0.001	0	%100
118	M46	Z	-0.000898	-0.000898	0	%100
119	M47	Z	-0.000498	-0.000498	0	%100
120	M48	Z	-0.000498	-0.000498	0	%100
121	M49	Z	-0.000498	-0.000498	0	%100
122	M50	Z	-0.000498	-0.000498	0	%100
123	M51	Z	-0.000498	-0.000498	0	%100
124	M52	Z	-0.000498	-0.000498	0	%100
125	MP-5	Z	-0.002	-0.002	0	%100
126	MP-6	Z	-0.002	-0.002	0	%100
127	MP-7	Z	-0.002	-0.002	0	%100
128	MP-8	Z	-0.002	-0.002	0	%100
129	M57	Z	-0.000414	-0.000414	0	%100
130	M58	Z	-0.000414	-0.000414	0	%100
131	M59	Z	-0.001	-0.001	0	%100
132	M60	Z	-0.001	-0.001	0	%100
133	M61	Z	-0.001	-0.001	0	%100
134	M62	Z	-0.001	-0.001	0	%100
135	M63	Z	-0.001	-0.001	0	%100
136	M64	Z	-0.001	-0.001	0	%100
137	M65	Z	-0.001	-0.001	0	%100
138	M66	Z	-0.001	-0.001	0	%100
139	M67	Z	-0.000391	-0.000391	0	%100
140	M68	Z	-0.000391	-0.000391	0	%100
141	M69	Z	-0.001	-0.001	0	%100
142	Mast	Z	-0.002	-0.002	0	%100
143	M71	Z	-0.002	-0.002	0	%100
144	M72	Z	-0.002	-0.002	0	%100

**Member Distributed Loads (BLC 22 : 60 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-0.000681	-0.000681	0	%100
2	FFTH2	X	-0.000681	-0.000681	0	%100
3	FFTH3	X	-0.000681	-0.000681	0	%100
4	FFBH1	X	-0.000681	-0.000681	0	%100
5	FFBH2	X	-0.000681	-0.000681	0	%100
6	FFBH3	X	-0.000681	-0.000681	0	%100
7	MP-1	X	-0.001	-0.001	0	%100
8	MP-2	X	-0.001	-0.001	0	%100
9	MP-3	X	-0.001	-0.001	0	%100
10	MP-4	X	-0.001	-0.001	0	%100
11	SF2-TH	X	-0.000901	-0.000901	0	%100
12	SF2-BH	X	-0.000901	-0.000901	0	%100
13	SF2-V1	X	-0.000641	-0.000641	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
14	SF2-V2	X	-0.000641	-0.000641	0	%100
15	SF2-D1	X	-0.000729	-0.000729	0	%100
16	SF3-TH	X	-7.4e-5	-7.4e-5	0	%100
17	SF3-BH	X	-7.4e-5	-7.4e-5	0	%100
18	SF3-V1	X	-0.000641	-0.000641	0	%100
19	SF3-V2	X	-0.000641	-0.000641	0	%100
20	SF3-D1	X	-0.000729	-0.000729	0	%100
21	BC-TH	X	-0.000544	-0.000544	0	%100
22	BC-BH	X	-0.000544	-0.000544	0	%100
23	SA-1	X	-0.000443	-0.000443	0	%100
24	M24	X	-0.001	-0.001	0	%100
25	M25	X	-0.001	-0.001	0	%100
26	M26	X	-0.001	-0.001	0	%100
27	M27	X	-0.001	-0.001	0	%100
28	M28	X	-0.001	-0.001	0	%100
29	M29	X	-0.001	-0.001	0	%100
30	MP-9	X	-0.001	-0.001	0	%100
31	MP-10	X	-0.001	-0.001	0	%100
32	MP-11	X	-0.001	-0.001	0	%100
33	MP-12	X	-0.001	-0.001	0	%100
34	M34	X	-0.000676	-0.000676	0	%100
35	M35	X	-0.000676	-0.000676	0	%100
36	M36	X	-0.000641	-0.000641	0	%100
37	M37	X	-0.000641	-0.000641	0	%100
38	M38	X	-0.000729	-0.000729	0	%100
39	M39	X	-0.000845	-0.000845	0	%100
40	M40	X	-0.000845	-0.000845	0	%100
41	M41	X	-0.000641	-0.000641	0	%100
42	M42	X	-0.000641	-0.000641	0	%100
43	M43	X	-0.000729	-0.000729	0	%100
44	M44	X	-0.001	-0.001	0	%100
45	M45	X	-0.001	-0.001	0	%100
46	M46	X	-0.000499	-0.000499	0	%100
47	M47	X	-0.000583	-0.000583	0	%100
48	M48	X	-0.000583	-0.000583	0	%100
49	M49	X	-0.000583	-0.000583	0	%100
50	M50	X	-0.000583	-0.000583	0	%100
51	M51	X	-0.000583	-0.000583	0	%100
52	M52	X	-0.000583	-0.000583	0	%100
53	MP-5	X	-0.001	-0.001	0	%100
54	MP-6	X	-0.001	-0.001	0	%100
55	MP-7	X	-0.001	-0.001	0	%100
56	MP-8	X	-0.001	-0.001	0	%100
57	M57	X	-7.5e-5	-7.5e-5	0	%100
58	M58	X	-7.5e-5	-7.5e-5	0	%100
59	M59	X	-0.000641	-0.000641	0	%100
60	M60	X	-0.000641	-0.000641	0	%100
61	M61	X	-0.000729	-0.000729	0	%100
62	M62	X	-0.000737	-0.000737	0	%100
63	M63	X	-0.000737	-0.000737	0	%100
64	M64	X	-0.000641	-0.000641	0	%100
65	M65	X	-0.000641	-0.000641	0	%100
66	M66	X	-0.000729	-0.000729	0	%100
67	M67	X	-0.000506	-0.000506	0	%100
68	M68	X	-0.000506	-0.000506	0	%100
69	M69	X	-0.000887	-0.000887	0	%100
70	Mast	X	-0.001	-0.001	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
71	M71	X	-0.01	-0.01	0	%100
72	M72	X	-0.01	-0.01	0	%100
73	FFTH1	Z	-0.01	-0.01	0	%100
74	FFTH2	Z	-0.01	-0.01	0	%100
75	FFTH3	Z	-0.01	-0.01	0	%100
76	FFBH1	Z	-0.01	-0.01	0	%100
77	FFBH2	Z	-0.01	-0.01	0	%100
78	FFBH3	Z	-0.01	-0.01	0	%100
79	MP-1	Z	-0.02	-0.02	0	%100
80	MP-2	Z	-0.02	-0.02	0	%100
81	MP-3	Z	-0.02	-0.02	0	%100
82	MP-4	Z	-0.02	-0.02	0	%100
83	SF2-TH	Z	-0.01	-0.01	0	%100
84	SF2-BH	Z	-0.01	-0.01	0	%100
85	SF2-V1	Z	-0.01	-0.01	0	%100
86	SF2-V2	Z	-0.01	-0.01	0	%100
87	SF2-D1	Z	-0.01	-0.01	0	%100
88	SF3-TH	Z	-0.00118	-0.00118	0	%100
89	SF3-BH	Z	-0.00118	-0.00118	0	%100
90	SF3-V1	Z	-0.01	-0.01	0	%100
91	SF3-V2	Z	-0.01	-0.01	0	%100
92	SF3-D1	Z	-0.01	-0.01	0	%100
93	BC-TH	Z	-0.000848	-0.000848	0	%100
94	BC-BH	Z	-0.000848	-0.000848	0	%100
95	SA-1	Z	-0.000839	-0.000839	0	%100
96	M24	Z	-0.02	-0.02	0	%100
97	M25	Z	-0.02	-0.02	0	%100
98	M26	Z	-0.02	-0.02	0	%100
99	M27	Z	-0.02	-0.02	0	%100
100	M28	Z	-0.02	-0.02	0	%100
101	M29	Z	-0.02	-0.02	0	%100
102	MP-9	Z	-0.02	-0.02	0	%100
103	MP-10	Z	-0.02	-0.02	0	%100
104	MP-11	Z	-0.02	-0.02	0	%100
105	MP-12	Z	-0.02	-0.02	0	%100
106	M34	Z	-0.02	-0.02	0	%100
107	M35	Z	-0.02	-0.02	0	%100
108	M36	Z	-0.01	-0.01	0	%100
109	M37	Z	-0.01	-0.01	0	%100
110	M38	Z	-0.01	-0.01	0	%100
111	M39	Z	-0.01	-0.01	0	%100
112	M40	Z	-0.01	-0.01	0	%100
113	M41	Z	-0.01	-0.01	0	%100
114	M42	Z	-0.01	-0.01	0	%100
115	M43	Z	-0.01	-0.01	0	%100
116	M44	Z	-0.02	-0.02	0	%100
117	M45	Z	-0.02	-0.02	0	%100
118	M46	Z	-0.00778	-0.00778	0	%100
119	M47	Z	-0.01	-0.01	0	%100
120	M48	Z	-0.01	-0.01	0	%100
121	M49	Z	-0.01	-0.01	0	%100
122	M50	Z	-0.01	-0.01	0	%100
123	M51	Z	-0.01	-0.01	0	%100
124	M52	Z	-0.01	-0.01	0	%100
125	MP-5	Z	-0.02	-0.02	0	%100
126	MP-6	Z	-0.02	-0.02	0	%100
127	MP-7	Z	-0.02	-0.02	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
128	MP-8	Z	-0.02	-0.02	0	%100
129	M57	Z	-0.000114	-0.000114	0	%100
130	M58	Z	-0.000114	-0.000114	0	%100
131	M59	Z	-0.01	-0.01	0	%100
132	M60	Z	-0.01	-0.01	0	%100
133	M61	Z	-0.01	-0.01	0	%100
134	M62	Z	-0.02	-0.02	0	%100
135	M63	Z	-0.02	-0.02	0	%100
136	M64	Z	-0.01	-0.01	0	%100
137	M65	Z	-0.01	-0.01	0	%100
138	M66	Z	-0.01	-0.01	0	%100
139	M67	Z	-0.000924	-0.000924	0	%100
140	M68	Z	-0.000924	-0.000924	0	%100
141	M69	Z	-0.02	-0.02	0	%100
142	Mast	Z	-0.03	-0.03	0	%100
143	M71	Z	-0.03	-0.03	0	%100
144	M72	Z	-0.03	-0.03	0	%100

**Member Distributed Loads (BLC 23 : 90 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	Z	0	0	0	%100
2	FFTH2	Z	0	0	0	%100
3	FFTH3	Z	0	0	0	%100
4	FFBH1	Z	0	0	0	%100
5	FFBH2	Z	0	0	0	%100
6	FFBH3	Z	0	0	0	%100
7	MP-1	Z	-0.03	-0.03	0	%100
8	MP-2	Z	-0.03	-0.03	0	%100
9	MP-3	Z	-0.03	-0.03	0	%100
10	MP-4	Z	-0.03	-0.03	0	%100
11	SF2-TH	Z	-0.01	-0.01	0	%100
12	SF2-BH	Z	-0.01	-0.01	0	%100
13	SF2-V1	Z	-0.01	-0.01	0	%100
14	SF2-V2	Z	-0.01	-0.01	0	%100
15	SF2-D1	Z	-0.02	-0.02	0	%100
16	SF3-TH	Z	-0.01	-0.01	0	%100
17	SF3-BH	Z	-0.01	-0.01	0	%100
18	SF3-V1	Z	-0.01	-0.01	0	%100
19	SF3-V2	Z	-0.01	-0.01	0	%100
20	SF3-D1	Z	-0.02	-0.02	0	%100
21	BC-TH	Z	0	0	0	%100
22	BC-BH	Z	0	0	0	%100
23	SA-1	Z	-0.02	-0.02	0	%100
24	M24	Z	-0.02	-0.02	0	%100
25	M25	Z	-0.02	-0.02	0	%100
26	M26	Z	-0.02	-0.02	0	%100
27	M27	Z	-0.02	-0.02	0	%100
28	M28	Z	-0.02	-0.02	0	%100
29	M29	Z	-0.02	-0.02	0	%100
30	MP-9	Z	-0.03	-0.03	0	%100
31	MP-10	Z	-0.03	-0.03	0	%100
32	MP-11	Z	-0.03	-0.03	0	%100
33	MP-12	Z	-0.03	-0.03	0	%100
34	M34	Z	-0.02	-0.02	0	%100
35	M35	Z	-0.02	-0.02	0	%100
36	M36	Z	-0.01	-0.01	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 23 : 90 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
37	M37	Z	-0.01	-0.01	0	%100
38	M38	Z	-0.002	-0.002	0	%100
39	M39	Z	-0.000773	-0.000773	0	%100
40	M40	Z	-0.000773	-0.000773	0	%100
41	M41	Z	-0.001	-0.001	0	%100
42	M42	Z	-0.001	-0.001	0	%100
43	M43	Z	-0.002	-0.002	0	%100
44	M44	Z	-0.002	-0.002	0	%100
45	M45	Z	-0.002	-0.002	0	%100
46	M46	Z	0	0	0	%100
47	M47	Z	-0.002	-0.002	0	%100
48	M48	Z	-0.002	-0.002	0	%100
49	M49	Z	-0.002	-0.002	0	%100
50	M50	Z	-0.002	-0.002	0	%100
51	M51	Z	-0.002	-0.002	0	%100
52	M52	Z	-0.002	-0.002	0	%100
53	MP-5	Z	-0.003	-0.003	0	%100
54	MP-6	Z	-0.003	-0.003	0	%100
55	MP-7	Z	-0.003	-0.003	0	%100
56	MP-8	Z	-0.003	-0.003	0	%100
57	M57	Z	-0.000773	-0.000773	0	%100
58	M58	Z	-0.000773	-0.000773	0	%100
59	M59	Z	-0.001	-0.001	0	%100
60	M60	Z	-0.001	-0.001	0	%100
61	M61	Z	-0.002	-0.002	0	%100
62	M62	Z	-0.002	-0.002	0	%100
63	M63	Z	-0.002	-0.002	0	%100
64	M64	Z	-0.001	-0.001	0	%100
65	M65	Z	-0.001	-0.001	0	%100
66	M66	Z	-0.002	-0.002	0	%100
67	M67	Z	-0.002	-0.002	0	%100
68	M68	Z	-0.002	-0.002	0	%100
69	M69	Z	-0.002	-0.002	0	%100
70	Mast	Z	-0.003	-0.003	0	%100
71	M71	Z	-0.003	-0.003	0	%100
72	M72	Z	-0.003	-0.003	0	%100

**Member Distributed Loads (BLC 24 : 120 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.000681	.000681	0	%100
2	FFTH2	X	.000681	.000681	0	%100
3	FFTH3	X	.000681	.000681	0	%100
4	FFBH1	X	.000681	.000681	0	%100
5	FFBH2	X	.000681	.000681	0	%100
6	FFBH3	X	.000681	.000681	0	%100
7	MP-1	X	.001	.001	0	%100
8	MP-2	X	.001	.001	0	%100
9	MP-3	X	.001	.001	0	%100
10	MP-4	X	.001	.001	0	%100
11	SF2-TH	X	7.4e-5	7.4e-5	0	%100
12	SF2-BH	X	7.4e-5	7.4e-5	0	%100
13	SF2-V1	X	.000641	.000641	0	%100
14	SF2-V2	X	.000641	.000641	0	%100
15	SF2-D1	X	.000729	.000729	0	%100
16	SF3-TH	X	.000901	.000901	0	%100
17	SF3-BH	X	.000901	.000901	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
18	SF3-V1	X	.000641	.000641	0	%100
19	SF3-V2	X	.000641	.000641	0	%100
20	SF3-D1	X	.000729	.000729	0	%100
21	BC-TH	X	.000544	.000544	0	%100
22	BC-BH	X	.000544	.000544	0	%100
23	SA-1	X	.000887	.000887	0	%100
24	M24	X	.000583	.000583	0	%100
25	M25	X	.000583	.000583	0	%100
26	M26	X	.000583	.000583	0	%100
27	M27	X	.000583	.000583	0	%100
28	M28	X	.000583	.000583	0	%100
29	M29	X	.000583	.000583	0	%100
30	MP-9	X	.001	.001	0	%100
31	MP-10	X	.001	.001	0	%100
32	MP-11	X	.001	.001	0	%100
33	MP-12	X	.001	.001	0	%100
34	M34	X	.000737	.000737	0	%100
35	M35	X	.000737	.000737	0	%100
36	M36	X	.000641	.000641	0	%100
37	M37	X	.000641	.000641	0	%100
38	M38	X	.000729	.000729	0	%100
39	M39	X	7.5e-5	7.5e-5	0	%100
40	M40	X	7.5e-5	7.5e-5	0	%100
41	M41	X	.000641	.000641	0	%100
42	M42	X	.000641	.000641	0	%100
43	M43	X	.000729	.000729	0	%100
44	M44	X	.000506	.000506	0	%100
45	M45	X	.000506	.000506	0	%100
46	M46	X	.000499	.000499	0	%100
47	M47	X	.001	.001	0	%100
48	M48	X	.001	.001	0	%100
49	M49	X	.001	.001	0	%100
50	M50	X	.001	.001	0	%100
51	M51	X	.001	.001	0	%100
52	M52	X	.001	.001	0	%100
53	MP-5	X	.001	.001	0	%100
54	MP-6	X	.001	.001	0	%100
55	MP-7	X	.001	.001	0	%100
56	MP-8	X	.001	.001	0	%100
57	M57	X	.000845	.000845	0	%100
58	M58	X	.000845	.000845	0	%100
59	M59	X	.000641	.000641	0	%100
60	M60	X	.000641	.000641	0	%100
61	M61	X	.000729	.000729	0	%100
62	M62	X	.000676	.000676	0	%100
63	M63	X	.000676	.000676	0	%100
64	M64	X	.000641	.000641	0	%100
65	M65	X	.000641	.000641	0	%100
66	M66	X	.000729	.000729	0	%100
67	M67	X	.001	.001	0	%100
68	M68	X	.001	.001	0	%100
69	M69	X	.000443	.000443	0	%100
70	Mast	X	.001	.001	0	%100
71	M71	X	.001	.001	0	%100
72	M72	X	.001	.001	0	%100
73	FFTH1	Z	-.001	-.001	0	%100
74	FFTH2	Z	-.001	-.001	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
75	FFTH3	Z	-0.01	-0.01	0	%100
76	FFBH1	Z	-0.01	-0.01	0	%100
77	FFBH2	Z	-0.01	-0.01	0	%100
78	FFBH3	Z	-0.01	-0.01	0	%100
79	MP-1	Z	-0.02	-0.02	0	%100
80	MP-2	Z	-0.02	-0.02	0	%100
81	MP-3	Z	-0.02	-0.02	0	%100
82	MP-4	Z	-0.02	-0.02	0	%100
83	SF2-TH	Z	-0.00118	-0.00118	0	%100
84	SF2-BH	Z	-0.00118	-0.00118	0	%100
85	SF2-V1	Z	-0.01	-0.01	0	%100
86	SF2-V2	Z	-0.01	-0.01	0	%100
87	SF2-D1	Z	-0.01	-0.01	0	%100
88	SF3-TH	Z	-0.01	-0.01	0	%100
89	SF3-BH	Z	-0.01	-0.01	0	%100
90	SF3-V1	Z	-0.01	-0.01	0	%100
91	SF3-V2	Z	-0.01	-0.01	0	%100
92	SF3-D1	Z	-0.01	-0.01	0	%100
93	BC-TH	Z	-0.00848	-0.00848	0	%100
94	BC-BH	Z	-0.00848	-0.00848	0	%100
95	SA-1	Z	-0.02	-0.02	0	%100
96	M24	Z	-0.01	-0.01	0	%100
97	M25	Z	-0.01	-0.01	0	%100
98	M26	Z	-0.01	-0.01	0	%100
99	M27	Z	-0.01	-0.01	0	%100
100	M28	Z	-0.01	-0.01	0	%100
101	M29	Z	-0.01	-0.01	0	%100
102	MP-9	Z	-0.02	-0.02	0	%100
103	MP-10	Z	-0.02	-0.02	0	%100
104	MP-11	Z	-0.02	-0.02	0	%100
105	MP-12	Z	-0.02	-0.02	0	%100
106	M34	Z	-0.02	-0.02	0	%100
107	M35	Z	-0.02	-0.02	0	%100
108	M36	Z	-0.01	-0.01	0	%100
109	M37	Z	-0.01	-0.01	0	%100
110	M38	Z	-0.01	-0.01	0	%100
111	M39	Z	-0.00114	-0.00114	0	%100
112	M40	Z	-0.00114	-0.00114	0	%100
113	M41	Z	-0.01	-0.01	0	%100
114	M42	Z	-0.01	-0.01	0	%100
115	M43	Z	-0.01	-0.01	0	%100
116	M44	Z	-0.00924	-0.00924	0	%100
117	M45	Z	-0.00924	-0.00924	0	%100
118	M46	Z	-0.00778	-0.00778	0	%100
119	M47	Z	-0.02	-0.02	0	%100
120	M48	Z	-0.02	-0.02	0	%100
121	M49	Z	-0.02	-0.02	0	%100
122	M50	Z	-0.02	-0.02	0	%100
123	M51	Z	-0.02	-0.02	0	%100
124	M52	Z	-0.02	-0.02	0	%100
125	MP-5	Z	-0.02	-0.02	0	%100
126	MP-6	Z	-0.02	-0.02	0	%100
127	MP-7	Z	-0.02	-0.02	0	%100
128	MP-8	Z	-0.02	-0.02	0	%100
129	M57	Z	-0.01	-0.01	0	%100
130	M58	Z	-0.01	-0.01	0	%100
131	M59	Z	-0.01	-0.01	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 24 : 120 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
132	M60	Z	-0.01	-0.01	0	%100
133	M61	Z	-0.01	-0.01	0	%100
134	M62	Z	-0.02	-0.02	0	%100
135	M63	Z	-0.02	-0.02	0	%100
136	M64	Z	-0.01	-0.01	0	%100
137	M65	Z	-0.01	-0.01	0	%100
138	M66	Z	-0.01	-0.01	0	%100
139	M67	Z	-0.02	-0.02	0	%100
140	M68	Z	-0.02	-0.02	0	%100
141	M69	Z	-0.00839	-0.00839	0	%100
142	Mast	Z	-0.03	-0.03	0	%100
143	M71	Z	-0.03	-0.03	0	%100
144	M72	Z	-0.03	-0.03	0	%100

**Member Distributed Loads (BLC 25 : 135 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.001	.001	0	%100
2	FFTH2	X	.001	.001	0	%100
3	FFTH3	X	.001	.001	0	%100
4	FFBH1	X	.001	.001	0	%100
5	FFBH2	X	.001	.001	0	%100
6	FFBH3	X	.001	.001	0	%100
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100
11	SF2-TH	X	.000264	.000264	0	%100
12	SF2-BH	X	.000264	.000264	0	%100
13	SF2-V1	X	.000906	.000906	0	%100
14	SF2-V2	X	.000906	.000906	0	%100
15	SF2-D1	X	.001	.001	0	%100
16	SF3-TH	X	.001	.001	0	%100
17	SF3-BH	X	.001	.001	0	%100
18	SF3-V1	X	.000906	.000906	0	%100
19	SF3-V2	X	.000906	.000906	0	%100
20	SF3-D1	X	.001	.001	0	%100
21	BC-TH	X	.001	.001	0	%100
22	BC-BH	X	.001	.001	0	%100
23	SA-1	X	.001	.001	0	%100
24	M24	X	.000426	.000426	0	%100
25	M25	X	.000426	.000426	0	%100
26	M26	X	.000426	.000426	0	%100
27	M27	X	.000426	.000426	0	%100
28	M28	X	.000426	.000426	0	%100
29	M29	X	.000426	.000426	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-10	X	.002	.002	0	%100
32	MP-11	X	.002	.002	0	%100
33	MP-12	X	.002	.002	0	%100
34	M34	X	.000876	.000876	0	%100
35	M35	X	.000876	.000876	0	%100
36	M36	X	.000906	.000906	0	%100
37	M37	X	.000906	.000906	0	%100
38	M38	X	.001	.001	0	%100
39	M39	X	.000476	.000476	0	%100
40	M40	X	.000476	.000476	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
41	M41	X	.000906	.000906	0	%100
42	M42	X	.000906	.000906	0	%100
43	M43	X	.001	.001	0	%100
44	M44	X	.00037	.00037	0	%100
45	M45	X	.00037	.00037	0	%100
46	M46	X	.000998	.000998	0	%100
47	M47	X	.002	.002	0	%100
48	M48	X	.002	.002	0	%100
49	M49	X	.002	.002	0	%100
50	M50	X	.002	.002	0	%100
51	M51	X	.002	.002	0	%100
52	M52	X	.002	.002	0	%100
53	MP-5	X	.002	.002	0	%100
54	MP-6	X	.002	.002	0	%100
55	MP-7	X	.002	.002	0	%100
56	MP-8	X	.002	.002	0	%100
57	M57	X	.001	.001	0	%100
58	M58	X	.001	.001	0	%100
59	M59	X	.000906	.000906	0	%100
60	M60	X	.000906	.000906	0	%100
61	M61	X	.001	.001	0	%100
62	M62	X	.000755	.000755	0	%100
63	M63	X	.000755	.000755	0	%100
64	M64	X	.000906	.000906	0	%100
65	M65	X	.000906	.000906	0	%100
66	M66	X	.001	.001	0	%100
67	M67	X	.001	.001	0	%100
68	M68	X	.001	.001	0	%100
69	M69	X	.000325	.000325	0	%100
70	Mast	X	.002	.002	0	%100
71	M71	X	.002	.002	0	%100
72	M72	X	.002	.002	0	%100
73	FFTH1	Z	-.001	-.001	0	%100
74	FFTH2	Z	-.001	-.001	0	%100
75	FFTH3	Z	-.001	-.001	0	%100
76	FFBH1	Z	-.001	-.001	0	%100
77	FFBH2	Z	-.001	-.001	0	%100
78	FFBH3	Z	-.001	-.001	0	%100
79	MP-1	Z	-.002	-.002	0	%100
80	MP-2	Z	-.002	-.002	0	%100
81	MP-3	Z	-.002	-.002	0	%100
82	MP-4	Z	-.002	-.002	0	%100
83	SF2-TH	Z	-.000245	-.000245	0	%100
84	SF2-BH	Z	-.000245	-.000245	0	%100
85	SF2-V1	Z	-.001	-.001	0	%100
86	SF2-V2	Z	-.001	-.001	0	%100
87	SF2-D1	Z	-.001	-.001	0	%100
88	SF3-TH	Z	-.001	-.001	0	%100
89	SF3-BH	Z	-.001	-.001	0	%100
90	SF3-V1	Z	-.001	-.001	0	%100
91	SF3-V2	Z	-.001	-.001	0	%100
92	SF3-D1	Z	-.001	-.001	0	%100
93	BC-TH	Z	-.000979	-.000979	0	%100
94	BC-BH	Z	-.000979	-.000979	0	%100
95	SA-1	Z	-.001	-.001	0	%100
96	M24	Z	-.000498	-.000498	0	%100
97	M25	Z	-.000498	-.000498	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 25 : 135 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
98	M26	Z	-.000498	-.000498	0	%100
99	M27	Z	-.000498	-.000498	0	%100
100	M28	Z	-.000498	-.000498	0	%100
101	M29	Z	-.000498	-.000498	0	%100
102	MP-9	Z	-.002	-.002	0	%100
103	MP-10	Z	-.002	-.002	0	%100
104	MP-11	Z	-.002	-.002	0	%100
105	MP-12	Z	-.002	-.002	0	%100
106	M34	Z	-.001	-.001	0	%100
107	M35	Z	-.001	-.001	0	%100
108	M36	Z	-.001	-.001	0	%100
109	M37	Z	-.001	-.001	0	%100
110	M38	Z	-.001	-.001	0	%100
111	M39	Z	-.000414	-.000414	0	%100
112	M40	Z	-.000414	-.000414	0	%100
113	M41	Z	-.001	-.001	0	%100
114	M42	Z	-.001	-.001	0	%100
115	M43	Z	-.001	-.001	0	%100
116	M44	Z	-.000391	-.000391	0	%100
117	M45	Z	-.000391	-.000391	0	%100
118	M46	Z	-.000898	-.000898	0	%100
119	M47	Z	-.002	-.002	0	%100
120	M48	Z	-.002	-.002	0	%100
121	M49	Z	-.002	-.002	0	%100
122	M50	Z	-.002	-.002	0	%100
123	M51	Z	-.002	-.002	0	%100
124	M52	Z	-.002	-.002	0	%100
125	MP-5	Z	-.002	-.002	0	%100
126	MP-6	Z	-.002	-.002	0	%100
127	MP-7	Z	-.002	-.002	0	%100
128	MP-8	Z	-.002	-.002	0	%100
129	M57	Z	-.001	-.001	0	%100
130	M58	Z	-.001	-.001	0	%100
131	M59	Z	-.001	-.001	0	%100
132	M60	Z	-.001	-.001	0	%100
133	M61	Z	-.001	-.001	0	%100
134	M62	Z	-.000969	-.000969	0	%100
135	M63	Z	-.000969	-.000969	0	%100
136	M64	Z	-.001	-.001	0	%100
137	M65	Z	-.001	-.001	0	%100
138	M66	Z	-.001	-.001	0	%100
139	M67	Z	-.001	-.001	0	%100
140	M68	Z	-.001	-.001	0	%100
141	M69	Z	-.000354	-.000354	0	%100
142	Mast	Z	-.002	-.002	0	%100
143	M71	Z	-.002	-.002	0	%100
144	M72	Z	-.002	-.002	0	%100

**Member Distributed Loads (BLC 26 : 150 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.002	.002	0	%100
2	FFTH2	X	.002	.002	0	%100
3	FFTH3	X	.002	.002	0	%100
4	FFBH1	X	.002	.002	0	%100
5	FFBH2	X	.002	.002	0	%100
6	FFBH3	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100
11	SF2-TH	X	.000754	.000754	0	%100
12	SF2-BH	X	.000754	.000754	0	%100
13	SF2-V1	X	.001	.001	0	%100
14	SF2-V2	X	.001	.001	0	%100
15	SF2-D1	X	.001	.001	0	%100
16	SF3-TH	X	.002	.002	0	%100
17	SF3-BH	X	.002	.002	0	%100
18	SF3-V1	X	.001	.001	0	%100
19	SF3-V2	X	.001	.001	0	%100
20	SF3-D1	X	.001	.001	0	%100
21	BC-TH	X	.002	.002	0	%100
22	BC-BH	X	.002	.002	0	%100
23	SA-1	X	.001	.001	0	%100
24	M24	X	0	0	0	%100
25	M25	X	0	0	0	%100
26	M26	X	0	0	0	%100
27	M27	X	0	0	0	%100
28	M28	X	0	0	0	%100
29	M29	X	0	0	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-10	X	.002	.002	0	%100
32	MP-11	X	.002	.002	0	%100
33	MP-12	X	.002	.002	0	%100
34	M34	X	.000797	.000797	0	%100
35	M35	X	.000797	.000797	0	%100
36	M36	X	.001	.001	0	%100
37	M37	X	.001	.001	0	%100
38	M38	X	.001	.001	0	%100
39	M39	X	.000995	.000995	0	%100
40	M40	X	.000995	.000995	0	%100
41	M41	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100
44	M44	X	0	0	0	%100
45	M45	X	0	0	0	%100
46	M46	X	.001	.001	0	%100
47	M47	X	.002	.002	0	%100
48	M48	X	.002	.002	0	%100
49	M49	X	.002	.002	0	%100
50	M50	X	.002	.002	0	%100
51	M51	X	.002	.002	0	%100
52	M52	X	.002	.002	0	%100
53	MP-5	X	.002	.002	0	%100
54	MP-6	X	.002	.002	0	%100
55	MP-7	X	.002	.002	0	%100
56	MP-8	X	.002	.002	0	%100
57	M57	X	.002	.002	0	%100
58	M58	X	.002	.002	0	%100
59	M59	X	.001	.001	0	%100
60	M60	X	.001	.001	0	%100
61	M61	X	.001	.001	0	%100
62	M62	X	.000616	.000616	0	%100
63	M63	X	.000616	.000616	0	%100



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**Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
64	M64	X	.001	.001	0	%100
65	M65	X	.001	.001	0	%100
66	M66	X	.001	.001	0	%100
67	M67	X	.002	.002	0	%100
68	M68	X	.002	.002	0	%100
69	M69	X	0	0	0	%100
70	Mast	X	.002	.002	0	%100
71	M71	X	.002	.002	0	%100
72	M72	X	.002	.002	0	%100
73	FFTH1	Z	-.001	-.001	0	%100
74	FFTH2	Z	-.001	-.001	0	%100
75	FFTH3	Z	-.001	-.001	0	%100
76	FFBH1	Z	-.001	-.001	0	%100
77	FFBH2	Z	-.001	-.001	0	%100
78	FFBH3	Z	-.001	-.001	0	%100
79	MP-1	Z	-.001	-.001	0	%100
80	MP-2	Z	-.001	-.001	0	%100
81	MP-3	Z	-.001	-.001	0	%100
82	MP-4	Z	-.001	-.001	0	%100
83	SF2-TH	Z	-.000402	-.000402	0	%100
84	SF2-BH	Z	-.000402	-.000402	0	%100
85	SF2-V1	Z	-.000712	-.000712	0	%100
86	SF2-V2	Z	-.000712	-.000712	0	%100
87	SF2-D1	Z	-.00081	-.00081	0	%100
88	SF3-TH	Z	-.000923	-.000923	0	%100
89	SF3-BH	Z	-.000923	-.000923	0	%100
90	SF3-V1	Z	-.000712	-.000712	0	%100
91	SF3-V2	Z	-.000712	-.000712	0	%100
92	SF3-D1	Z	-.00081	-.00081	0	%100
93	BC-TH	Z	-.000848	-.000848	0	%100
94	BC-BH	Z	-.000848	-.000848	0	%100
95	SA-1	Z	-.000839	-.000839	0	%100
96	M24	Z	0	0	0	%100
97	M25	Z	0	0	0	%100
98	M26	Z	0	0	0	%100
99	M27	Z	0	0	0	%100
100	M28	Z	0	0	0	%100
101	M29	Z	0	0	0	%100
102	MP-9	Z	-.001	-.001	0	%100
103	MP-10	Z	-.001	-.001	0	%100
104	MP-11	Z	-.001	-.001	0	%100
105	MP-12	Z	-.001	-.001	0	%100
106	M34	Z	-.00059	-.00059	0	%100
107	M35	Z	-.00059	-.00059	0	%100
108	M36	Z	-.000712	-.000712	0	%100
109	M37	Z	-.000712	-.000712	0	%100
110	M38	Z	-.00081	-.00081	0	%100
111	M39	Z	-.0005	-.0005	0	%100
112	M40	Z	-.0005	-.0005	0	%100
113	M41	Z	-.000712	-.000712	0	%100
114	M42	Z	-.000712	-.000712	0	%100
115	M43	Z	-.00081	-.00081	0	%100
116	M44	Z	0	0	0	%100
117	M45	Z	0	0	0	%100
118	M46	Z	-.000778	-.000778	0	%100
119	M47	Z	-.001	-.001	0	%100
120	M48	Z	-.001	-.001	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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**Member Distributed Loads (BLC 26 : 150 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
121	M49	Z	-.001	-.001	0	%100
122	M50	Z	-.001	-.001	0	%100
123	M51	Z	-.001	-.001	0	%100
124	M52	Z	-.001	-.001	0	%100
125	MP-5	Z	-.001	-.001	0	%100
126	MP-6	Z	-.001	-.001	0	%100
127	MP-7	Z	-.001	-.001	0	%100
128	MP-8	Z	-.001	-.001	0	%100
129	M57	Z	-.000887	-.000887	0	%100
130	M58	Z	-.000887	-.000887	0	%100
131	M59	Z	-.000712	-.000712	0	%100
132	M60	Z	-.000712	-.000712	0	%100
133	M61	Z	-.00081	-.00081	0	%100
134	M62	Z	-.000456	-.000456	0	%100
135	M63	Z	-.000456	-.000456	0	%100
136	M64	Z	-.000712	-.000712	0	%100
137	M65	Z	-.000712	-.000712	0	%100
138	M66	Z	-.00081	-.00081	0	%100
139	M67	Z	-.000924	-.000924	0	%100
140	M68	Z	-.000924	-.000924	0	%100
141	M69	Z	0	0	0	%100
142	Mast	Z	-.002	-.002	0	%100
143	M71	Z	-.002	-.002	0	%100
144	M72	Z	-.002	-.002	0	%100

**Member Distributed Loads (BLC 27 : 180 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.003	.003	0	%100
2	FFTH2	X	.003	.003	0	%100
3	FFTH3	X	.003	.003	0	%100
4	FFBH1	X	.003	.003	0	%100
5	FFBH2	X	.003	.003	0	%100
6	FFBH3	X	.003	.003	0	%100
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100
11	SF2-TH	X	.002	.002	0	%100
12	SF2-BH	X	.002	.002	0	%100
13	SF2-V1	X	.001	.001	0	%100
14	SF2-V2	X	.001	.001	0	%100
15	SF2-D1	X	.001	.001	0	%100
16	SF3-TH	X	.002	.002	0	%100
17	SF3-BH	X	.002	.002	0	%100
18	SF3-V1	X	.001	.001	0	%100
19	SF3-V2	X	.001	.001	0	%100
20	SF3-D1	X	.001	.001	0	%100
21	BC-TH	X	.002	.002	0	%100
22	BC-BH	X	.002	.002	0	%100
23	SA-1	X	.002	.002	0	%100
24	M24	X	.002	.002	0	%100
25	M25	X	.002	.002	0	%100
26	M26	X	.002	.002	0	%100
27	M27	X	.002	.002	0	%100
28	M28	X	.002	.002	0	%100
29	M29	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
30	MP-9	X	.002	.002	0	%100
31	MP-10	X	.002	.002	0	%100
32	MP-11	X	.002	.002	0	%100
33	MP-12	X	.002	.002	0	%100
34	M34	X	.002	.002	0	%100
35	M35	X	.002	.002	0	%100
36	M36	X	.001	.001	0	%100
37	M37	X	.001	.001	0	%100
38	M38	X	.001	.001	0	%100
39	M39	X	.002	.002	0	%100
40	M40	X	.002	.002	0	%100
41	M41	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100
44	M44	X	.002	.002	0	%100
45	M45	X	.002	.002	0	%100
46	M46	X	.002	.002	0	%100
47	M47	X	.002	.002	0	%100
48	M48	X	.002	.002	0	%100
49	M49	X	.002	.002	0	%100
50	M50	X	.002	.002	0	%100
51	M51	X	.002	.002	0	%100
52	M52	X	.002	.002	0	%100
53	MP-5	X	.002	.002	0	%100
54	MP-6	X	.002	.002	0	%100
55	MP-7	X	.002	.002	0	%100
56	MP-8	X	.002	.002	0	%100
57	M57	X	.002	.002	0	%100
58	M58	X	.002	.002	0	%100
59	M59	X	.001	.001	0	%100
60	M60	X	.001	.001	0	%100
61	M61	X	.001	.001	0	%100
62	M62	X	.002	.002	0	%100
63	M63	X	.002	.002	0	%100
64	M64	X	.001	.001	0	%100
65	M65	X	.001	.001	0	%100
66	M66	X	.001	.001	0	%100
67	M67	X	.002	.002	0	%100
68	M68	X	.002	.002	0	%100
69	M69	X	.002	.002	0	%100
70	Mast	X	.003	.003	0	%100
71	M71	X	.003	.003	0	%100
72	M72	X	.003	.003	0	%100

**Member Distributed Loads (BLC 28 : 210 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.002	.002	0	%100
2	FFTH2	X	.002	.002	0	%100
3	FFTH3	X	.002	.002	0	%100
4	FFBH1	X	.002	.002	0	%100
5	FFBH2	X	.002	.002	0	%100
6	FFBH3	X	.002	.002	0	%100
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
11	SF2-TH	X	.002	.002	0	%100
12	SF2-BH	X	.002	.002	0	%100
13	SF2-V1	X	.001	.001	0	%100
14	SF2-V2	X	.001	.001	0	%100
15	SF2-D1	X	.001	.001	0	%100
16	SF3-TH	X	.000754	.000754	0	%100
17	SF3-BH	X	.000754	.000754	0	%100
18	SF3-V1	X	.001	.001	0	%100
19	SF3-V2	X	.001	.001	0	%100
20	SF3-D1	X	.001	.001	0	%100
21	BC-TH	X	.002	.002	0	%100
22	BC-BH	X	.002	.002	0	%100
23	SA-1	X	0	0	0	%100
24	M24	X	.002	.002	0	%100
25	M25	X	.002	.002	0	%100
26	M26	X	.002	.002	0	%100
27	M27	X	.002	.002	0	%100
28	M28	X	.002	.002	0	%100
29	M29	X	.002	.002	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-10	X	.002	.002	0	%100
32	MP-11	X	.002	.002	0	%100
33	MP-12	X	.002	.002	0	%100
34	M34	X	.000616	.000616	0	%100
35	M35	X	.000616	.000616	0	%100
36	M36	X	.001	.001	0	%100
37	M37	X	.001	.001	0	%100
38	M38	X	.001	.001	0	%100
39	M39	X	.002	.002	0	%100
40	M40	X	.002	.002	0	%100
41	M41	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100
44	M44	X	.002	.002	0	%100
45	M45	X	.002	.002	0	%100
46	M46	X	.001	.001	0	%100
47	M47	X	0	0	0	%100
48	M48	X	0	0	0	%100
49	M49	X	0	0	0	%100
50	M50	X	0	0	0	%100
51	M51	X	0	0	0	%100
52	M52	X	0	0	0	%100
53	MP-5	X	.002	.002	0	%100
54	MP-6	X	.002	.002	0	%100
55	MP-7	X	.002	.002	0	%100
56	MP-8	X	.002	.002	0	%100
57	M57	X	.000995	.000995	0	%100
58	M58	X	.000995	.000995	0	%100
59	M59	X	.001	.001	0	%100
60	M60	X	.001	.001	0	%100
61	M61	X	.001	.001	0	%100
62	M62	X	.000797	.000797	0	%100
63	M63	X	.000797	.000797	0	%100
64	M64	X	.001	.001	0	%100
65	M65	X	.001	.001	0	%100
66	M66	X	.001	.001	0	%100
67	M67	X	0	0	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
68	M68	X	0	0	0	%100
69	M69	X	.001	.001	0	%100
70	Mast	X	.002	.002	0	%100
71	M71	X	.002	.002	0	%100
72	M72	X	.002	.002	0	%100
73	FFTH1	Z	.001	.001	0	%100
74	FFTH2	Z	.001	.001	0	%100
75	FFTH3	Z	.001	.001	0	%100
76	FFBH1	Z	.001	.001	0	%100
77	FFBH2	Z	.001	.001	0	%100
78	FFBH3	Z	.001	.001	0	%100
79	MP-1	Z	.001	.001	0	%100
80	MP-2	Z	.001	.001	0	%100
81	MP-3	Z	.001	.001	0	%100
82	MP-4	Z	.001	.001	0	%100
83	SF2-TH	Z	.000923	.000923	0	%100
84	SF2-BH	Z	.000923	.000923	0	%100
85	SF2-V1	Z	.000712	.000712	0	%100
86	SF2-V2	Z	.000712	.000712	0	%100
87	SF2-D1	Z	.00081	.00081	0	%100
88	SF3-TH	Z	.000402	.000402	0	%100
89	SF3-BH	Z	.000402	.000402	0	%100
90	SF3-V1	Z	.000712	.000712	0	%100
91	SF3-V2	Z	.000712	.000712	0	%100
92	SF3-D1	Z	.00081	.00081	0	%100
93	BC-TH	Z	.000848	.000848	0	%100
94	BC-BH	Z	.000848	.000848	0	%100
95	SA-1	Z	0	0	0	%100
96	M24	Z	.001	.001	0	%100
97	M25	Z	.001	.001	0	%100
98	M26	Z	.001	.001	0	%100
99	M27	Z	.001	.001	0	%100
100	M28	Z	.001	.001	0	%100
101	M29	Z	.001	.001	0	%100
102	MP-9	Z	.001	.001	0	%100
103	MP-10	Z	.001	.001	0	%100
104	MP-11	Z	.001	.001	0	%100
105	MP-12	Z	.001	.001	0	%100
106	M34	Z	.000456	.000456	0	%100
107	M35	Z	.000456	.000456	0	%100
108	M36	Z	.000712	.000712	0	%100
109	M37	Z	.000712	.000712	0	%100
110	M38	Z	.00081	.00081	0	%100
111	M39	Z	.000887	.000887	0	%100
112	M40	Z	.000887	.000887	0	%100
113	M41	Z	.000712	.000712	0	%100
114	M42	Z	.000712	.000712	0	%100
115	M43	Z	.00081	.00081	0	%100
116	M44	Z	.000924	.000924	0	%100
117	M45	Z	.000924	.000924	0	%100
118	M46	Z	.000778	.000778	0	%100
119	M47	Z	0	0	0	%100
120	M48	Z	0	0	0	%100
121	M49	Z	0	0	0	%100
122	M50	Z	0	0	0	%100
123	M51	Z	0	0	0	%100
124	M52	Z	0	0	0	%100





Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
125	MP-5	Z	.001	.001	0	%100
126	MP-6	Z	.001	.001	0	%100
127	MP-7	Z	.001	.001	0	%100
128	MP-8	Z	.001	.001	0	%100
129	M57	Z	.0005	.0005	0	%100
130	M58	Z	.0005	.0005	0	%100
131	M59	Z	.000712	.000712	0	%100
132	M60	Z	.000712	.000712	0	%100
133	M61	Z	.00081	.00081	0	%100
134	M62	Z	.00059	.00059	0	%100
135	M63	Z	.00059	.00059	0	%100
136	M64	Z	.000712	.000712	0	%100
137	M65	Z	.000712	.000712	0	%100
138	M66	Z	.00081	.00081	0	%100
139	M67	Z	0	0	0	%100
140	M68	Z	0	0	0	%100
141	M69	Z	.000839	.000839	0	%100
142	Mast	Z	.002	.002	0	%100
143	M71	Z	.002	.002	0	%100
144	M72	Z	.002	.002	0	%100

**Member Distributed Loads (BLC 29 : 225 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	.001	.001	0	%100
2	FFTH2	X	.001	.001	0	%100
3	FFTH3	X	.001	.001	0	%100
4	FFBH1	X	.001	.001	0	%100
5	FFBH2	X	.001	.001	0	%100
6	FFBH3	X	.001	.001	0	%100
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100
11	SF2-TH	X	.001	.001	0	%100
12	SF2-BH	X	.001	.001	0	%100
13	SF2-V1	X	.000906	.000906	0	%100
14	SF2-V2	X	.000906	.000906	0	%100
15	SF2-D1	X	.001	.001	0	%100
16	SF3-TH	X	.000264	.000264	0	%100
17	SF3-BH	X	.000264	.000264	0	%100
18	SF3-V1	X	.000906	.000906	0	%100
19	SF3-V2	X	.000906	.000906	0	%100
20	SF3-D1	X	.001	.001	0	%100
21	BC-TH	X	.001	.001	0	%100
22	BC-BH	X	.001	.001	0	%100
23	SA-1	X	.000325	.000325	0	%100
24	M24	X	.002	.002	0	%100
25	M25	X	.002	.002	0	%100
26	M26	X	.002	.002	0	%100
27	M27	X	.002	.002	0	%100
28	M28	X	.002	.002	0	%100
29	M29	X	.002	.002	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-10	X	.002	.002	0	%100
32	MP-11	X	.002	.002	0	%100
33	MP-12	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
34	M34	X	.000755	.000755	0	%100
35	M35	X	.000755	.000755	0	%100
36	M36	X	.000906	.000906	0	%100
37	M37	X	.000906	.000906	0	%100
38	M38	X	.001	.001	0	%100
39	M39	X	.001	.001	0	%100
40	M40	X	.001	.001	0	%100
41	M41	X	.000906	.000906	0	%100
42	M42	X	.000906	.000906	0	%100
43	M43	X	.001	.001	0	%100
44	M44	X	.001	.001	0	%100
45	M45	X	.001	.001	0	%100
46	M46	X	.000998	.000998	0	%100
47	M47	X	.000426	.000426	0	%100
48	M48	X	.000426	.000426	0	%100
49	M49	X	.000426	.000426	0	%100
50	M50	X	.000426	.000426	0	%100
51	M51	X	.000426	.000426	0	%100
52	M52	X	.000426	.000426	0	%100
53	MP-5	X	.002	.002	0	%100
54	MP-6	X	.002	.002	0	%100
55	MP-7	X	.002	.002	0	%100
56	MP-8	X	.002	.002	0	%100
57	M57	X	.000476	.000476	0	%100
58	M58	X	.000476	.000476	0	%100
59	M59	X	.000906	.000906	0	%100
60	M60	X	.000906	.000906	0	%100
61	M61	X	.001	.001	0	%100
62	M62	X	.000876	.000876	0	%100
63	M63	X	.000876	.000876	0	%100
64	M64	X	.000906	.000906	0	%100
65	M65	X	.000906	.000906	0	%100
66	M66	X	.001	.001	0	%100
67	M67	X	.00037	.00037	0	%100
68	M68	X	.00037	.00037	0	%100
69	M69	X	.001	.001	0	%100
70	Mast	X	.002	.002	0	%100
71	M71	X	.002	.002	0	%100
72	M72	X	.002	.002	0	%100
73	FFTH1	Z	.001	.001	0	%100
74	FFTH2	Z	.001	.001	0	%100
75	FFTH3	Z	.001	.001	0	%100
76	FFBH1	Z	.001	.001	0	%100
77	FFBH2	Z	.001	.001	0	%100
78	FFBH3	Z	.001	.001	0	%100
79	MP-1	Z	.002	.002	0	%100
80	MP-2	Z	.002	.002	0	%100
81	MP-3	Z	.002	.002	0	%100
82	MP-4	Z	.002	.002	0	%100
83	SF2-TH	Z	.001	.001	0	%100
84	SF2-BH	Z	.001	.001	0	%100
85	SF2-V1	Z	.001	.001	0	%100
86	SF2-V2	Z	.001	.001	0	%100
87	SF2-D1	Z	.001	.001	0	%100
88	SF3-TH	Z	.000245	.000245	0	%100
89	SF3-BH	Z	.000245	.000245	0	%100
90	SF3-V1	Z	.001	.001	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
91	SF3-V2	.001	.001	0	%100
92	SF3-D1	.001	.001	0	%100
93	BC-TH	.000979	.000979	0	%100
94	BC-BH	.000979	.000979	0	%100
95	SA-1	.000354	.000354	0	%100
96	M24	.002	.002	0	%100
97	M25	.002	.002	0	%100
98	M26	.002	.002	0	%100
99	M27	.002	.002	0	%100
100	M28	.002	.002	0	%100
101	M29	.002	.002	0	%100
102	MP-9	.002	.002	0	%100
103	MP-10	.002	.002	0	%100
104	MP-11	.002	.002	0	%100
105	MP-12	.002	.002	0	%100
106	M34	.000969	.000969	0	%100
107	M35	.000969	.000969	0	%100
108	M36	.001	.001	0	%100
109	M37	.001	.001	0	%100
110	M38	.001	.001	0	%100
111	M39	.001	.001	0	%100
112	M40	.001	.001	0	%100
113	M41	.001	.001	0	%100
114	M42	.001	.001	0	%100
115	M43	.001	.001	0	%100
116	M44	.001	.001	0	%100
117	M45	.001	.001	0	%100
118	M46	.000898	.000898	0	%100
119	M47	.000498	.000498	0	%100
120	M48	.000498	.000498	0	%100
121	M49	.000498	.000498	0	%100
122	M50	.000498	.000498	0	%100
123	M51	.000498	.000498	0	%100
124	M52	.000498	.000498	0	%100
125	MP-5	.002	.002	0	%100
126	MP-6	.002	.002	0	%100
127	MP-7	.002	.002	0	%100
128	MP-8	.002	.002	0	%100
129	M57	.000414	.000414	0	%100
130	M58	.000414	.000414	0	%100
131	M59	.001	.001	0	%100
132	M60	.001	.001	0	%100
133	M61	.001	.001	0	%100
134	M62	.001	.001	0	%100
135	M63	.001	.001	0	%100
136	M64	.001	.001	0	%100
137	M65	.001	.001	0	%100
138	M66	.001	.001	0	%100
139	M67	.000391	.000391	0	%100
140	M68	.000391	.000391	0	%100
141	M69	.001	.001	0	%100
142	Mast	.002	.002	0	%100
143	M71	.002	.002	0	%100
144	M72	.002	.002	0	%100

**Member Distributed Loads (BLC 30 : 240 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
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Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	FFTH1	.000681	.000681	0	%100
2	FFTH2	.000681	.000681	0	%100
3	FFTH3	.000681	.000681	0	%100
4	FFBH1	.000681	.000681	0	%100
5	FFBH2	.000681	.000681	0	%100
6	FFBH3	.000681	.000681	0	%100
7	MP-1	.001	.001	0	%100
8	MP-2	.001	.001	0	%100
9	MP-3	.001	.001	0	%100
10	MP-4	.001	.001	0	%100
11	SF2-TH	.000901	.000901	0	%100
12	SF2-BH	.000901	.000901	0	%100
13	SF2-V1	.000641	.000641	0	%100
14	SF2-V2	.000641	.000641	0	%100
15	SF2-D1	.000729	.000729	0	%100
16	SF3-TH	7.4e-5	7.4e-5	0	%100
17	SF3-BH	7.4e-5	7.4e-5	0	%100
18	SF3-V1	.000641	.000641	0	%100
19	SF3-V2	.000641	.000641	0	%100
20	SF3-D1	.000729	.000729	0	%100
21	BC-TH	.000544	.000544	0	%100
22	BC-BH	.000544	.000544	0	%100
23	SA-1	.000443	.000443	0	%100
24	M24	.001	.001	0	%100
25	M25	.001	.001	0	%100
26	M26	.001	.001	0	%100
27	M27	.001	.001	0	%100
28	M28	.001	.001	0	%100
29	M29	.001	.001	0	%100
30	MP-9	.001	.001	0	%100
31	MP-10	.001	.001	0	%100
32	MP-11	.001	.001	0	%100
33	MP-12	.001	.001	0	%100
34	M34	.000676	.000676	0	%100
35	M35	.000676	.000676	0	%100
36	M36	.000641	.000641	0	%100
37	M37	.000641	.000641	0	%100
38	M38	.000729	.000729	0	%100
39	M39	.000845	.000845	0	%100
40	M40	.000845	.000845	0	%100
41	M41	.000641	.000641	0	%100
42	M42	.000641	.000641	0	%100
43	M43	.000729	.000729	0	%100
44	M44	.001	.001	0	%100
45	M45	.001	.001	0	%100
46	M46	.000499	.000499	0	%100
47	M47	.000583	.000583	0	%100
48	M48	.000583	.000583	0	%100
49	M49	.000583	.000583	0	%100
50	M50	.000583	.000583	0	%100
51	M51	.000583	.000583	0	%100
52	M52	.000583	.000583	0	%100
53	MP-5	.001	.001	0	%100
54	MP-6	.001	.001	0	%100
55	MP-7	.001	.001	0	%100
56	MP-8	.001	.001	0	%100
57	M57	7.5e-5	7.5e-5	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
58	M58	X	7.5e-5	7.5e-5	0	%100
59	M59	X	.000641	.000641	0	%100
60	M60	X	.000641	.000641	0	%100
61	M61	X	.000729	.000729	0	%100
62	M62	X	.000737	.000737	0	%100
63	M63	X	.000737	.000737	0	%100
64	M64	X	.000641	.000641	0	%100
65	M65	X	.000641	.000641	0	%100
66	M66	X	.000729	.000729	0	%100
67	M67	X	.000506	.000506	0	%100
68	M68	X	.000506	.000506	0	%100
69	M69	X	.000887	.000887	0	%100
70	Mast	X	.001	.001	0	%100
71	M71	X	.001	.001	0	%100
72	M72	X	.001	.001	0	%100
73	FFTH1	Z	.001	.001	0	%100
74	FFTH2	Z	.001	.001	0	%100
75	FFTH3	Z	.001	.001	0	%100
76	FFBH1	Z	.001	.001	0	%100
77	FFBH2	Z	.001	.001	0	%100
78	FFBH3	Z	.001	.001	0	%100
79	MP-1	Z	.002	.002	0	%100
80	MP-2	Z	.002	.002	0	%100
81	MP-3	Z	.002	.002	0	%100
82	MP-4	Z	.002	.002	0	%100
83	SF2-TH	Z	.001	.001	0	%100
84	SF2-BH	Z	.001	.001	0	%100
85	SF2-V1	Z	.001	.001	0	%100
86	SF2-V2	Z	.001	.001	0	%100
87	SF2-D1	Z	.001	.001	0	%100
88	SF3-TH	Z	.000118	.000118	0	%100
89	SF3-BH	Z	.000118	.000118	0	%100
90	SF3-V1	Z	.001	.001	0	%100
91	SF3-V2	Z	.001	.001	0	%100
92	SF3-D1	Z	.001	.001	0	%100
93	BC-TH	Z	.000848	.000848	0	%100
94	BC-BH	Z	.000848	.000848	0	%100
95	SA-1	Z	.000839	.000839	0	%100
96	M24	Z	.002	.002	0	%100
97	M25	Z	.002	.002	0	%100
98	M26	Z	.002	.002	0	%100
99	M27	Z	.002	.002	0	%100
100	M28	Z	.002	.002	0	%100
101	M29	Z	.002	.002	0	%100
102	MP-9	Z	.002	.002	0	%100
103	MP-10	Z	.002	.002	0	%100
104	MP-11	Z	.002	.002	0	%100
105	MP-12	Z	.002	.002	0	%100
106	M34	Z	.002	.002	0	%100
107	M35	Z	.002	.002	0	%100
108	M36	Z	.001	.001	0	%100
109	M37	Z	.001	.001	0	%100
110	M38	Z	.001	.001	0	%100
111	M39	Z	.001	.001	0	%100
112	M40	Z	.001	.001	0	%100
113	M41	Z	.001	.001	0	%100
114	M42	Z	.001	.001	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 30 : 240 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
115	M43	Z	.001	.001	0	%100
116	M44	Z	.002	.002	0	%100
117	M45	Z	.002	.002	0	%100
118	M46	Z	.000778	.000778	0	%100
119	M47	Z	.001	.001	0	%100
120	M48	Z	.001	.001	0	%100
121	M49	Z	.001	.001	0	%100
122	M50	Z	.001	.001	0	%100
123	M51	Z	.001	.001	0	%100
124	M52	Z	.001	.001	0	%100
125	MP-5	Z	.002	.002	0	%100
126	MP-6	Z	.002	.002	0	%100
127	MP-7	Z	.002	.002	0	%100
128	MP-8	Z	.002	.002	0	%100
129	M57	Z	.000114	.000114	0	%100
130	M58	Z	.000114	.000114	0	%100
131	M59	Z	.001	.001	0	%100
132	M60	Z	.001	.001	0	%100
133	M61	Z	.001	.001	0	%100
134	M62	Z	.002	.002	0	%100
135	M63	Z	.002	.002	0	%100
136	M64	Z	.001	.001	0	%100
137	M65	Z	.001	.001	0	%100
138	M66	Z	.001	.001	0	%100
139	M67	Z	.000924	.000924	0	%100
140	M68	Z	.000924	.000924	0	%100
141	M69	Z	.002	.002	0	%100
142	Mast	Z	.003	.003	0	%100
143	M71	Z	.003	.003	0	%100
144	M72	Z	.003	.003	0	%100

**Member Distributed Loads (BLC 31 : 270 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	Z	0	0	0	%100
2	FFTH2	Z	0	0	0	%100
3	FFTH3	Z	0	0	0	%100
4	FFBH1	Z	0	0	0	%100
5	FFBH2	Z	0	0	0	%100
6	FFBH3	Z	0	0	0	%100
7	MP-1	Z	.003	.003	0	%100
8	MP-2	Z	.003	.003	0	%100
9	MP-3	Z	.003	.003	0	%100
10	MP-4	Z	.003	.003	0	%100
11	SF2-TH	Z	.001	.001	0	%100
12	SF2-BH	Z	.001	.001	0	%100
13	SF2-V1	Z	.001	.001	0	%100
14	SF2-V2	Z	.001	.001	0	%100
15	SF2-D1	Z	.002	.002	0	%100
16	SF3-TH	Z	.001	.001	0	%100
17	SF3-BH	Z	.001	.001	0	%100
18	SF3-V1	Z	.001	.001	0	%100
19	SF3-V2	Z	.001	.001	0	%100
20	SF3-D1	Z	.002	.002	0	%100
21	BC-TH	Z	0	0	0	%100
22	BC-BH	Z	0	0	0	%100
23	SA-1	Z	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 31 : 270 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
24	M24	Z	.002	.002	0	%100
25	M25	Z	.002	.002	0	%100
26	M26	Z	.002	.002	0	%100
27	M27	Z	.002	.002	0	%100
28	M28	Z	.002	.002	0	%100
29	M29	Z	.002	.002	0	%100
30	MP-9	Z	.003	.003	0	%100
31	MP-10	Z	.003	.003	0	%100
32	MP-11	Z	.003	.003	0	%100
33	MP-12	Z	.003	.003	0	%100
34	M34	Z	.002	.002	0	%100
35	M35	Z	.002	.002	0	%100
36	M36	Z	.001	.001	0	%100
37	M37	Z	.001	.001	0	%100
38	M38	Z	.002	.002	0	%100
39	M39	Z	.000773	.000773	0	%100
40	M40	Z	.000773	.000773	0	%100
41	M41	Z	.001	.001	0	%100
42	M42	Z	.001	.001	0	%100
43	M43	Z	.002	.002	0	%100
44	M44	Z	.002	.002	0	%100
45	M45	Z	.002	.002	0	%100
46	M46	Z	0	0	0	%100
47	M47	Z	.002	.002	0	%100
48	M48	Z	.002	.002	0	%100
49	M49	Z	.002	.002	0	%100
50	M50	Z	.002	.002	0	%100
51	M51	Z	.002	.002	0	%100
52	M52	Z	.002	.002	0	%100
53	MP-5	Z	.003	.003	0	%100
54	MP-6	Z	.003	.003	0	%100
55	MP-7	Z	.003	.003	0	%100
56	MP-8	Z	.003	.003	0	%100
57	M57	Z	.000773	.000773	0	%100
58	M58	Z	.000773	.000773	0	%100
59	M59	Z	.001	.001	0	%100
60	M60	Z	.001	.001	0	%100
61	M61	Z	.002	.002	0	%100
62	M62	Z	.002	.002	0	%100
63	M63	Z	.002	.002	0	%100
64	M64	Z	.001	.001	0	%100
65	M65	Z	.001	.001	0	%100
66	M66	Z	.002	.002	0	%100
67	M67	Z	.002	.002	0	%100
68	M68	Z	.002	.002	0	%100
69	M69	Z	.002	.002	0	%100
70	Mast	Z	.003	.003	0	%100
71	M71	Z	.003	.003	0	%100
72	M72	Z	.003	.003	0	%100

**Member Distributed Loads (BLC 32 : 300 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-.000681	-.000681	0	%100
2	FFTH2	X	-.000681	-.000681	0	%100
3	FFTH3	X	-.000681	-.000681	0	%100
4	FFBH1	X	-.000681	-.000681	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
5	FFBH2	X	-.000681	-.000681	0	%100
6	FFBH3	X	-.000681	-.000681	0	%100
7	MP-1	X	-.001	-.001	0	%100
8	MP-2	X	-.001	-.001	0	%100
9	MP-3	X	-.001	-.001	0	%100
10	MP-4	X	-.001	-.001	0	%100
11	SF2-TH	X	-7.4e-5	-7.4e-5	0	%100
12	SF2-BH	X	-7.4e-5	-7.4e-5	0	%100
13	SF2-V1	X	-.000641	-.000641	0	%100
14	SF2-V2	X	-.000641	-.000641	0	%100
15	SF2-D1	X	-.000729	-.000729	0	%100
16	SF3-TH	X	-.000901	-.000901	0	%100
17	SF3-BH	X	-.000901	-.000901	0	%100
18	SF3-V1	X	-.000641	-.000641	0	%100
19	SF3-V2	X	-.000641	-.000641	0	%100
20	SF3-D1	X	-.000729	-.000729	0	%100
21	BC-TH	X	-.000544	-.000544	0	%100
22	BC-BH	X	-.000544	-.000544	0	%100
23	SA-1	X	-.000887	-.000887	0	%100
24	M24	X	-.000583	-.000583	0	%100
25	M25	X	-.000583	-.000583	0	%100
26	M26	X	-.000583	-.000583	0	%100
27	M27	X	-.000583	-.000583	0	%100
28	M28	X	-.000583	-.000583	0	%100
29	M29	X	-.000583	-.000583	0	%100
30	MP-9	X	-.001	-.001	0	%100
31	MP-10	X	-.001	-.001	0	%100
32	MP-11	X	-.001	-.001	0	%100
33	MP-12	X	-.001	-.001	0	%100
34	M34	X	-.000737	-.000737	0	%100
35	M35	X	-.000737	-.000737	0	%100
36	M36	X	-.000641	-.000641	0	%100
37	M37	X	-.000641	-.000641	0	%100
38	M38	X	-.000729	-.000729	0	%100
39	M39	X	-7.5e-5	-7.5e-5	0	%100
40	M40	X	-7.5e-5	-7.5e-5	0	%100
41	M41	X	-.000641	-.000641	0	%100
42	M42	X	-.000641	-.000641	0	%100
43	M43	X	-.000729	-.000729	0	%100
44	M44	X	-.000506	-.000506	0	%100
45	M45	X	-.000506	-.000506	0	%100
46	M46	X	-.000499	-.000499	0	%100
47	M47	X	-.001	-.001	0	%100
48	M48	X	-.001	-.001	0	%100
49	M49	X	-.001	-.001	0	%100
50	M50	X	-.001	-.001	0	%100
51	M51	X	-.001	-.001	0	%100
52	M52	X	-.001	-.001	0	%100
53	MP-5	X	-.001	-.001	0	%100
54	MP-6	X	-.001	-.001	0	%100
55	MP-7	X	-.001	-.001	0	%100
56	MP-8	X	-.001	-.001	0	%100
57	M57	X	-.000845	-.000845	0	%100
58	M58	X	-.000845	-.000845	0	%100
59	M59	X	-.000641	-.000641	0	%100
60	M60	X	-.000641	-.000641	0	%100
61	M61	X	-.000729	-.000729	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
62	M62	X	-0.00676	-0.00676	0	%100
63	M63	X	-0.00676	-0.00676	0	%100
64	M64	X	-0.00641	-0.00641	0	%100
65	M65	X	-0.00641	-0.00641	0	%100
66	M66	X	-0.00729	-0.00729	0	%100
67	M67	X	-0.001	-0.001	0	%100
68	M68	X	-0.001	-0.001	0	%100
69	M69	X	-0.00443	-0.00443	0	%100
70	Mast	X	-0.001	-0.001	0	%100
71	M71	X	-0.001	-0.001	0	%100
72	M72	X	-0.001	-0.001	0	%100
73	FFTH1	Z	.001	.001	0	%100
74	FFTH2	Z	.001	.001	0	%100
75	FFTH3	Z	.001	.001	0	%100
76	FFBH1	Z	.001	.001	0	%100
77	FFBH2	Z	.001	.001	0	%100
78	FFBH3	Z	.001	.001	0	%100
79	MP-1	Z	.002	.002	0	%100
80	MP-2	Z	.002	.002	0	%100
81	MP-3	Z	.002	.002	0	%100
82	MP-4	Z	.002	.002	0	%100
83	SF2-TH	Z	.000118	.000118	0	%100
84	SF2-BH	Z	.000118	.000118	0	%100
85	SF2-V1	Z	.001	.001	0	%100
86	SF2-V2	Z	.001	.001	0	%100
87	SF2-D1	Z	.001	.001	0	%100
88	SF3-TH	Z	.001	.001	0	%100
89	SF3-BH	Z	.001	.001	0	%100
90	SF3-V1	Z	.001	.001	0	%100
91	SF3-V2	Z	.001	.001	0	%100
92	SF3-D1	Z	.001	.001	0	%100
93	BC-TH	Z	.000848	.000848	0	%100
94	BC-BH	Z	.000848	.000848	0	%100
95	SA-1	Z	.002	.002	0	%100
96	M24	Z	.001	.001	0	%100
97	M25	Z	.001	.001	0	%100
98	M26	Z	.001	.001	0	%100
99	M27	Z	.001	.001	0	%100
100	M28	Z	.001	.001	0	%100
101	M29	Z	.001	.001	0	%100
102	MP-9	Z	.002	.002	0	%100
103	MP-10	Z	.002	.002	0	%100
104	MP-11	Z	.002	.002	0	%100
105	MP-12	Z	.002	.002	0	%100
106	M34	Z	.002	.002	0	%100
107	M35	Z	.002	.002	0	%100
108	M36	Z	.001	.001	0	%100
109	M37	Z	.001	.001	0	%100
110	M38	Z	.001	.001	0	%100
111	M39	Z	.000114	.000114	0	%100
112	M40	Z	.000114	.000114	0	%100
113	M41	Z	.001	.001	0	%100
114	M42	Z	.001	.001	0	%100
115	M43	Z	.001	.001	0	%100
116	M44	Z	.000924	.000924	0	%100
117	M45	Z	.000924	.000924	0	%100
118	M46	Z	.000778	.000778	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 32 : 300 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
119	M47	Z	.002	.002	0	%100
120	M48	Z	.002	.002	0	%100
121	M49	Z	.002	.002	0	%100
122	M50	Z	.002	.002	0	%100
123	M51	Z	.002	.002	0	%100
124	M52	Z	.002	.002	0	%100
125	MP-5	Z	.002	.002	0	%100
126	MP-6	Z	.002	.002	0	%100
127	MP-7	Z	.002	.002	0	%100
128	MP-8	Z	.002	.002	0	%100
129	M57	Z	.001	.001	0	%100
130	M58	Z	.001	.001	0	%100
131	M59	Z	.001	.001	0	%100
132	M60	Z	.001	.001	0	%100
133	M61	Z	.001	.001	0	%100
134	M62	Z	.002	.002	0	%100
135	M63	Z	.002	.002	0	%100
136	M64	Z	.001	.001	0	%100
137	M65	Z	.001	.001	0	%100
138	M66	Z	.001	.001	0	%100
139	M67	Z	.002	.002	0	%100
140	M68	Z	.002	.002	0	%100
141	M69	Z	.000839	.000839	0	%100
142	Mast	Z	.003	.003	0	%100
143	M71	Z	.003	.003	0	%100
144	M72	Z	.003	.003	0	%100

**Member Distributed Loads (BLC 33 : 315 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-.001	-.001	0	%100
2	FFTH2	X	-.001	-.001	0	%100
3	FFTH3	X	-.001	-.001	0	%100
4	FFBH1	X	-.001	-.001	0	%100
5	FFBH2	X	-.001	-.001	0	%100
6	FFBH3	X	-.001	-.001	0	%100
7	MP-1	X	-.002	-.002	0	%100
8	MP-2	X	-.002	-.002	0	%100
9	MP-3	X	-.002	-.002	0	%100
10	MP-4	X	-.002	-.002	0	%100
11	SF2-TH	X	-.000264	-.000264	0	%100
12	SF2-BH	X	-.000264	-.000264	0	%100
13	SF2-V1	X	-.000906	-.000906	0	%100
14	SF2-V2	X	-.000906	-.000906	0	%100
15	SF2-D1	X	-.001	-.001	0	%100
16	SF3-TH	X	-.001	-.001	0	%100
17	SF3-BH	X	-.001	-.001	0	%100
18	SF3-V1	X	-.000906	-.000906	0	%100
19	SF3-V2	X	-.000906	-.000906	0	%100
20	SF3-D1	X	-.001	-.001	0	%100
21	BC-TH	X	-.001	-.001	0	%100
22	BC-BH	X	-.001	-.001	0	%100
23	SA-1	X	-.001	-.001	0	%100
24	M24	X	-.000426	-.000426	0	%100
25	M25	X	-.000426	-.000426	0	%100
26	M26	X	-.000426	-.000426	0	%100
27	M27	X	-.000426	-.000426	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
28	M28	X	-0.00426	-0.00426	0 %100
29	M29	X	-0.00426	-0.00426	0 %100
30	MP-9	X	-0.002	-0.002	0 %100
31	MP-10	X	-0.002	-0.002	0 %100
32	MP-11	X	-0.002	-0.002	0 %100
33	MP-12	X	-0.002	-0.002	0 %100
34	M34	X	-0.00876	-0.00876	0 %100
35	M35	X	-0.00876	-0.00876	0 %100
36	M36	X	-0.00906	-0.00906	0 %100
37	M37	X	-0.00906	-0.00906	0 %100
38	M38	X	-0.001	-0.001	0 %100
39	M39	X	-0.00476	-0.00476	0 %100
40	M40	X	-0.00476	-0.00476	0 %100
41	M41	X	-0.00906	-0.00906	0 %100
42	M42	X	-0.00906	-0.00906	0 %100
43	M43	X	-0.001	-0.001	0 %100
44	M44	X	-0.00037	-0.00037	0 %100
45	M45	X	-0.00037	-0.00037	0 %100
46	M46	X	-0.000998	-0.000998	0 %100
47	M47	X	-0.002	-0.002	0 %100
48	M48	X	-0.002	-0.002	0 %100
49	M49	X	-0.002	-0.002	0 %100
50	M50	X	-0.002	-0.002	0 %100
51	M51	X	-0.002	-0.002	0 %100
52	M52	X	-0.002	-0.002	0 %100
53	MP-5	X	-0.002	-0.002	0 %100
54	MP-6	X	-0.002	-0.002	0 %100
55	MP-7	X	-0.002	-0.002	0 %100
56	MP-8	X	-0.002	-0.002	0 %100
57	M57	X	-0.001	-0.001	0 %100
58	M58	X	-0.001	-0.001	0 %100
59	M59	X	-0.000906	-0.000906	0 %100
60	M60	X	-0.000906	-0.000906	0 %100
61	M61	X	-0.001	-0.001	0 %100
62	M62	X	-0.000755	-0.000755	0 %100
63	M63	X	-0.000755	-0.000755	0 %100
64	M64	X	-0.000906	-0.000906	0 %100
65	M65	X	-0.000906	-0.000906	0 %100
66	M66	X	-0.001	-0.001	0 %100
67	M67	X	-0.001	-0.001	0 %100
68	M68	X	-0.001	-0.001	0 %100
69	M69	X	-0.000325	-0.000325	0 %100
70	Mast	X	-0.002	-0.002	0 %100
71	M71	X	-0.002	-0.002	0 %100
72	M72	X	-0.002	-0.002	0 %100
73	FFTH1	Z	0.001	0.001	0 %100
74	FFTH2	Z	0.001	0.001	0 %100
75	FFTH3	Z	0.001	0.001	0 %100
76	FFBH1	Z	0.001	0.001	0 %100
77	FFBH2	Z	0.001	0.001	0 %100
78	FFBH3	Z	0.001	0.001	0 %100
79	MP-1	Z	0.002	0.002	0 %100
80	MP-2	Z	0.002	0.002	0 %100
81	MP-3	Z	0.002	0.002	0 %100
82	MP-4	Z	0.002	0.002	0 %100
83	SF2-TH	Z	0.00245	0.00245	0 %100
84	SF2-BH	Z	0.00245	0.00245	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]
85	SF2-V1	Z	0.001	0.001	0 %100
86	SF2-V2	Z	0.001	0.001	0 %100
87	SF2-D1	Z	0.001	0.001	0 %100
88	SF3-TH	Z	0.001	0.001	0 %100
89	SF3-BH	Z	0.001	0.001	0 %100
90	SF3-V1	Z	0.001	0.001	0 %100
91	SF3-V2	Z	0.001	0.001	0 %100
92	SF3-D1	Z	0.001	0.001	0 %100
93	BC-TH	Z	0.000979	0.000979	0 %100
94	BC-BH	Z	0.000979	0.000979	0 %100
95	SA-1	Z	0.001	0.001	0 %100
96	M24	Z	0.000498	0.000498	0 %100
97	M25	Z	0.000498	0.000498	0 %100
98	M26	Z	0.000498	0.000498	0 %100
99	M27	Z	0.000498	0.000498	0 %100
100	M28	Z	0.000498	0.000498	0 %100
101	M29	Z	0.000498	0.000498	0 %100
102	MP-9	Z	0.002	0.002	0 %100
103	MP-10	Z	0.002	0.002	0 %100
104	MP-11	Z	0.002	0.002	0 %100
105	MP-12	Z	0.002	0.002	0 %100
106	M34	Z	0.001	0.001	0 %100
107	M35	Z	0.001	0.001	0 %100
108	M36	Z	0.001	0.001	0 %100
109	M37	Z	0.001	0.001	0 %100
110	M38	Z	0.001	0.001	0 %100
111	M39	Z	0.000414	0.000414	0 %100
112	M40	Z	0.000414	0.000414	0 %100
113	M41	Z	0.001	0.001	0 %100
114	M42	Z	0.001	0.001	0 %100
115	M43	Z	0.001	0.001	0 %100
116	M44	Z	0.000391	0.000391	0 %100
117	M45	Z	0.000391	0.000391	0 %100
118	M46	Z	0.000898	0.000898	0 %100
119	M47	Z	0.002	0.002	0 %100
120	M48	Z	0.002	0.002	0 %100
121	M49	Z	0.002	0.002	0 %100
122	M50	Z	0.002	0.002	0 %100
123	M51	Z	0.002	0.002	0 %100
124	M52	Z	0.002	0.002	0 %100
125	MP-5	Z	0.002	0.002	0 %100
126	MP-6	Z	0.002	0.002	0 %100
127	MP-7	Z	0.002	0.002	0 %100
128	MP-8	Z	0.002	0.002	0 %100
129	M57	Z	0.001	0.001	0 %100
130	M58	Z	0.001	0.001	0 %100
131	M59	Z	0.001	0.001	0 %100
132	M60	Z	0.001	0.001	0 %100
133	M61	Z	0.001	0.001	0 %100
134	M62	Z	0.000969	0.000969	0 %100
135	M63	Z	0.000969	0.000969	0 %100
136	M64	Z	0.001	0.001	0 %100
137	M65	Z	0.001	0.001	0 %100
138	M66	Z	0.001	0.001	0 %100
139	M67	Z	0.001	0.001	0 %100
140	M68	Z	0.001	0.001	0 %100
141	M69	Z	0.000354	0.000354	0 %100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 33 : 315 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
142	Mast	Z	.002	.002	0	%100
143	M71	Z	.002	.002	0	%100
144	M72	Z	.002	.002	0	%100

**Member Distributed Loads (BLC 34 : 330 Wind - Ice)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
1	FFTH1	X	-.002	-.002	0	%100
2	FFTH2	X	-.002	-.002	0	%100
3	FFTH3	X	-.002	-.002	0	%100
4	FFBH1	X	-.002	-.002	0	%100
5	FFBH2	X	-.002	-.002	0	%100
6	FFBH3	X	-.002	-.002	0	%100
7	MP-1	X	-.002	-.002	0	%100
8	MP-2	X	-.002	-.002	0	%100
9	MP-3	X	-.002	-.002	0	%100
10	MP-4	X	-.002	-.002	0	%100
11	SF2-TH	X	-.000754	-.000754	0	%100
12	SF2-BH	X	-.000754	-.000754	0	%100
13	SF2-V1	X	-.001	-.001	0	%100
14	SF2-V2	X	-.001	-.001	0	%100
15	SF2-D1	X	-.001	-.001	0	%100
16	SF3-TH	X	-.002	-.002	0	%100
17	SF3-BH	X	-.002	-.002	0	%100
18	SF3-V1	X	-.001	-.001	0	%100
19	SF3-V2	X	-.001	-.001	0	%100
20	SF3-D1	X	-.001	-.001	0	%100
21	BC-TH	X	-.002	-.002	0	%100
22	BC-BH	X	-.002	-.002	0	%100
23	SA-1	X	-.001	-.001	0	%100
24	M24	X	0	0	0	%100
25	M25	X	0	0	0	%100
26	M26	X	0	0	0	%100
27	M27	X	0	0	0	%100
28	M28	X	0	0	0	%100
29	M29	X	0	0	0	%100
30	MP-9	X	-.002	-.002	0	%100
31	MP-10	X	-.002	-.002	0	%100
32	MP-11	X	-.002	-.002	0	%100
33	MP-12	X	-.002	-.002	0	%100
34	M34	X	-.000797	-.000797	0	%100
35	M35	X	-.000797	-.000797	0	%100
36	M36	X	-.001	-.001	0	%100
37	M37	X	-.001	-.001	0	%100
38	M38	X	-.001	-.001	0	%100
39	M39	X	-.000995	-.000995	0	%100
40	M40	X	-.000995	-.000995	0	%100
41	M41	X	-.001	-.001	0	%100
42	M42	X	-.001	-.001	0	%100
43	M43	X	-.001	-.001	0	%100
44	M44	X	0	0	0	%100
45	M45	X	0	0	0	%100
46	M46	X	-.001	-.001	0	%100
47	M47	X	-.002	-.002	0	%100
48	M48	X	-.002	-.002	0	%100
49	M49	X	-.002	-.002	0	%100
50	M50	X	-.002	-.002	0	%100



Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
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 Model Name : CCI BU No. 842873

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**Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft....]	End Magnitude[k/ft.F....]	Start Location[ft.%]	End Location[ft.%]	
51	M51	X	-.002	-.002	0	%100
52	M52	X	-.002	-.002	0	%100
53	MP-5	X	-.002	-.002	0	%100
54	MP-6	X	-.002	-.002	0	%100
55	MP-7	X	-.002	-.002	0	%100
56	MP-8	X	-.002	-.002	0	%100
57	M57	X	-.002	-.002	0	%100
58	M58	X	-.002	-.002	0	%100
59	M59	X	-.001	-.001	0	%100
60	M60	X	-.001	-.001	0	%100
61	M61	X	-.001	-.001	0	%100
62	M62	X	-.000616	-.000616	0	%100
63	M63	X	-.000616	-.000616	0	%100
64	M64	X	-.001	-.001	0	%100
65	M65	X	-.001	-.001	0	%100
66	M66	X	-.001	-.001	0	%100
67	M67	X	-.002	-.002	0	%100
68	M68	X	-.002	-.002	0	%100
69	M69	X	0	0	0	%100
70	Mast	X	-.002	-.002	0	%100
71	M71	X	-.002	-.002	0	%100
72	M72	X	-.002	-.002	0	%100
73	FFTH1	Z	.001	.001	0	%100
74	FFTH2	Z	.001	.001	0	%100
75	FFTH3	Z	.001	.001	0	%100
76	FFBH1	Z	.001	.001	0	%100
77	FFBH2	Z	.001	.001	0	%100
78	FFBH3	Z	.001	.001	0	%100
79	MP-1	Z	.001	.001	0	%100
80	MP-2	Z	.001	.001	0	%100
81	MP-3	Z	.001	.001	0	%100
82	MP-4	Z	.001	.001	0	%100
83	SF2-TH	Z	.000402	.000402	0	%100
84	SF2-BH	Z	.000402	.000402	0	%100
85	SF2-V1	Z	.000712	.000712	0	%100
86	SF2-V2	Z	.000712	.000712	0	%100
87	SF2-D1	Z	.00081	.00081	0	%100
88	SF3-TH	Z	.000923	.000923	0	%100
89	SF3-BH	Z	.000923	.000923	0	%100
90	SF3-V1	Z	.000712	.000712	0	%100
91	SF3-V2	Z	.000712	.000712	0	%100
92	SF3-D1	Z	.00081	.00081	0	%100
93	BC-TH	Z	.000848	.000848	0	%100
94	BC-BH	Z	.000848	.000848	0	%100
95	SA-1	Z	.000839	.000839	0	%100
96	M24	Z	0	0	0	%100
97	M25	Z	0	0	0	%100
98	M26	Z	0	0	0	%100
99	M27	Z	0	0	0	%100
100	M28	Z	0	0	0	%100
101	M29	Z	0	0	0	%100
102	MP-9	Z	.001	.001	0	%100
103	MP-10	Z	.001	.001	0	%100
104	MP-11	Z	.001	.001	0	%100
105	MP-12	Z	.001	.001	0	%100
106	M34	Z	.00059	.00059	0	%100
107	M35	Z	.00059	.00059	0	%100



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**Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)**

Member Label	Direction	Start Magnitude[k/ft]	End Magnitude[k/ft]	Start Location[ft.%]	End Location[ft.%]
108	M36	Z	.000712	.000712	0 %100
109	M37	Z	.000712	.000712	0 %100
110	M38	Z	.00081	.00081	0 %100
111	M39	Z	.0005	.0005	0 %100
112	M40	Z	.0005	.0005	0 %100
113	M41	Z	.000712	.000712	0 %100
114	M42	Z	.000712	.000712	0 %100
115	M43	Z	.00081	.00081	0 %100
116	M44	Z	0	0	0 %100
117	M45	Z	0	0	0 %100
118	M46	Z	.000778	.000778	0 %100
119	M47	Z	.001	.001	0 %100
120	M48	Z	.001	.001	0 %100
121	M49	Z	.001	.001	0 %100
122	M50	Z	.001	.001	0 %100
123	M51	Z	.001	.001	0 %100
124	M52	Z	.001	.001	0 %100
125	MP-5	Z	.001	.001	0 %100
126	MP-6	Z	.001	.001	0 %100
127	MP-7	Z	.001	.001	0 %100
128	MP-8	Z	.001	.001	0 %100
129	M57	Z	.000887	.000887	0 %100
130	M58	Z	.000887	.000887	0 %100
131	M59	Z	.000712	.000712	0 %100
132	M60	Z	.000712	.000712	0 %100
133	M61	Z	.00081	.00081	0 %100
134	M62	Z	.000456	.000456	0 %100
135	M63	Z	.000456	.000456	0 %100
136	M64	Z	.000712	.000712	0 %100
137	M65	Z	.000712	.000712	0 %100
138	M66	Z	.00081	.00081	0 %100
139	M67	Z	.000924	.000924	0 %100
140	M68	Z	.000924	.000924	0 %100
141	M69	Z	0	0	0 %100
142	Mast	Z	.002	.002	0 %100
143	M71	Z	.002	.002	0 %100
144	M72	Z	.002	.002	0 %100

**Member Area Loads**

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

**Envelope Joint Reactions**

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	SF1-1	max	1.93	2	1.333	42	.887	4	0	98	.457	7	0	98
2		min	-3.285	26	.329	83	-1.799	61	0	1	-.674	31	0	1
3	SF1-2	max	1.962	34	1.266	45	1.769	56	0	98	.557	56	0	98
4		min	-.088	10	.314	86	-.053	15	0	1	-.008	16	0	1
5	N73	max	1.684	19	1.319	37	3.203	22	0	98	.429	2	0	98
6		min	-1.577	11	.329	94	-1.696	14	0	1	-.646	26	0	1
7	N74	max	.453	3	1.24	42	-.081	5	0	98	.236	34	0	98
8		min	-.543	27	.314	96	-2.009	45	0	1	-.008	10	0	1
9	N117	max	2.828	33	1.365	47	1.746	6	0	98	.471	12	0	98
10		min	-1.595	9	.334	88	-2.632	30	0	1	-.672	21	0	1



Company : Tower Engineering Professionals, Inc.  
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 Job Number : TEP No. 63208.396480  
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**Envelope Joint Reactions (Continued)**

Joint	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
11	N118	max	-.071	17	1.238	35	1.502	39	0	98	.209	29	0	98
12		min	-1.518	42	.31	91	-.211	15	0	1	-.012	5	0	1
13	SF2-01	max	.014	2	.02	49	-.005	12	0	98	0	98	0	98
14		min	-.029	26	.007	83	-.069	53	0	1	0	1	0	1
15	SF2-02	max	.019	18	.021	49	.051	55	0	98	0	98	0	98
16		min	-.011	10	.007	83	-.009	14	0	1	0	1	0	1
17	N135	max	.006	6	.02	49	.032	36	0	98	0	98	0	98
18		min	-.023	30	.007	83	-.007	12	0	1	0	1	0	1
19	N136	max	.02	18	.021	49	.008	6	0	98	0	98	0	98
20		min	-.011	10	.007	83	-.024	30	0	1	0	1	0	1
21	N137	max	.029	47	.02	49	.019	24	0	98	0	98	0	98
22		min	0	6	.007	83	-.019	32	0	1	0	1	0	1
23	N138	max	.008	2	.021	49	.014	6	0	98	0	98	0	98
24		min	-.028	26	.007	83	-.015	30	0	1	0	1	0	1
25	Totals:	max	6.359	18	7.838	49	6.456	22						
26		min	-6.359	10	2.011	83	-6.456	14						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Che...	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt [k]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
1	MP-3	PIPE 2.0	.376	3	18	.062	3.094	25	19.7	32.13	1.872	1.872	1...	H1-1b	
2	MP-11	PIPE 2.0	.376	3	29	.062	3.094	19	19.7	32.13	1.872	1.872	1...	H1-1b	
3	MP-7	PIPE 2.0	.376	3	23	.062	3.094	30	19.7	32.13	1.872	1.872	2...	H1-1b	
4	M34	PIPE 2.0X	.374	2	128	27	.061	3.945	19	45.622	63	3.615	3.615	1...	H1-1b
5	SF2-TH	PIPE 2.0X	.372	2	128	33	.061	3.945	25	45.622	63	3.615	3.615	1...	H1-1b
6	MP-12	PIPE 2.0	.372	3	29	.074	3.094	21	19.7	32.13	1.872	1.872	1...	H1-1b	
7	MP-8	PIPE 2.0	.372	3	23	.074	3.094	32	19.7	32.13	1.872	1.872	1...	H1-1b	
8	MP-4	PIPE 2.0	.372	3	18	.074	3.094	26	19.7	32.13	1.872	1.872	1...	H1-1b	
9	M57	PIPE 2.0X	.347	2	128	22	.061	4.255	30	45.622	63	3.615	3.615	1...	H1-1b
10	M62	PIPE 2.0X	.329	2	128	26	.082	3.989	25	45.622	63	3.615	3.615	2...	H1-1b
11	M69	PIPE 2.0	.316	3	296	33	.035	0	33	38.106	45.9	2.674	2.674	1...	H1-1b
12	SF3-TH	PIPE 2.0X	.313	2	128	21	.081	3.989	19	45.622	63	3.615	3.615	2...	H1-1b
13	M48	PIPE 2.0X	.300	8	31	.063	6	6	24	20.272	63	3.615	3.615	2...	H1-1b
14	M39	PIPE 2.0X	.300	2	128	31	.081	3.989	30	45.622	63	3.615	3.615	2...	H1-1b
15	M25	PIPE 2.0X	.299	8	21	.061	6	6	29	20.272	63	3.615	3.615	2...	H1-1b
16	FFTH2	PIPE 2.0X	.299	8	26	.061	6	6	18	20.272	63	3.615	3.615	2...	H1-1b
17	SA-1	PIPE 2.0	.292	3	296	27	.031	0	27	38.106	45.9	2.674	2.674	1...	H1-1b
18	M46	PIPE 2.0	.266	3	296	22	.029	0	22	38.106	45.9	2.674	2.674	1...	H1-1b
19	M49	PIPE 2.0X	.258	0	23	.068	0	0	24	38.546	63	3.615	3.615	2...	H1-1b
20	FFTH3	PIPE 2.0X	.258	0	18	.066	0	0	18	38.546	63	3.615	3.615	2...	H1-1b
21	M26	PIPE 2.0X	.258	0	29	.066	0	0	29	38.546	63	3.615	3.615	2...	H1-1b
22	BC-TH	Pivot Plate	.258	5	59	.078	.5	y	27	97.947	135.352	1.762	13.57	1...	H1-1b
23	M67	Pivot Plate	.240	5	48	.080	.5	y	32	97.947	135.352	1.762	13.57	1...	H1-1b
24	M44	Pivot Plate	.240	5	37	.078	.5	y	22	97.947	135.352	1.762	13.57	1...	H1-1b
25	BC-BH	Pivot Plate	.237	5	53	.050	.5	y	36	97.947	135.352	1.762	13.57	1...	H1-1b
26	M68	Pivot Plate	.224	5	42	.050	.5	y	42	97.947	135.352	1.762	13.57	1...	H1-1b
27	M45	Pivot Plate	.224	5	47	.049	.5	y	47	97.947	135.352	1.762	13.57	1...	H1-1b
28	FFBH3	PIPE 2.0X	.160	1	979	62	.038	0	58	38.546	63	3.615	3.615	1...	H1-1b
29	M24	PIPE 2.0X	.160	2	5	.028	2.5	30	38.546	63	3.615	3.615	2...	H1-1b	
30	FFTH1	PIPE 2.0X	.160	2	5	.028	2.5	19	38.546	63	3.615	3.615	2...	H1-1b	
31	M47	PIPE 2.0X	.159	2	5	.028	2.5	25	38.546	63	3.615	3.615	2...	H1-1b	
32	MP-10	PIPE 2.0	.147	3	094	22	.051	3.094	30	49.1	32.13	1.872	1.872	3...	H1-1b
33	MP-2	PIPE 2.0	.147	3	094	27	.051	3.094	19	20.491	32.13	1.872	1.872	2...	H1-1b
34	MP-6	PIPE 2.0	.146	3	094	33	.051	3.094	25	20.491	32.13	1.872	1.872	2...	H1-1b
35	FFBH2	PIPE 2.0X	.141	8	52	.033	6	6	25	20.272	63	3.615	3.615	3...	H1-1b
36	MP-5	PIPE 2.0	.127	3	094	24	.027	5.906	23	20.491	32.13	1.872	1.872	2...	H1-1b





Company : Tower Engineering Professionals, Inc.  
 Designer : DMLG  
 Job Number : TEP No. 63208.396480  
 Model Name : CCI BU No. 842873

Apr 7, 2020  
 3:32 PM  
 Checked By: GHM

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

Member	Shape	Code Check	Loc[ft]	LC	Shear	Che...	Loc[ft]	Dir	LC	phi*	Pnc...	phi*	Pnt[k]	phi*	Mn.y...	phi*	Mn.z...	Cb	Eqn
37	MP-9	PIPE 2.0	.126	3.094	30	.027	5.906	28	20.491	32.13	1.872	1.872	2...	H1-1b					
38	MP-1	PIPE 2.0	.126	3.094	19	.027	5.906	18	20.491	32.13	1.872	1.872	2...	H1-1b					
39	SF3-V2	SR 3/4	.124	2.917	56	.022	0	30	6.78	19.88	249	249	1...	H1-1b*					
40	M28	PIPE 2.0X	.121	8	21	.033	6	19	20.272	63	3.615	3.615	2...	H1-1b					
41	M51	PIPE 2.0X	.121	8	31	.034	6	30	20.272	63	3.615	3.615	2...	H1-1b					
42	SF3-V1	SR 3/4	.119	2.917	58	.032	2.917	21	6.78	19.88	249	249	2...	H1-1b					
43	M42	SR 3/4	.118	2.917	34	.023	0	24	6.78	19.88	249	249	2...	H1-1b*					
44	M65	SR 3/4	.118	2.917	42	.024	0	19	6.78	19.88	249	249	2...	H1-1b*					
45	M41	SR 3/4	.115	2.917	34	.033	2.917	32	6.78	19.88	249	249	2...	H1-1b					
46	M64	SR 3/4	.114	2.917	45	.033	2.917	26	6.78	19.88	249	249	2...	H1-1b					
47	M52	PIPE 2.0X	.113	0	24	.023	0	18	38.546	63	3.615	3.615	2...	H1-1b					
48	M29	PIPE 2.0X	.112	0	29	.023	0	23	38.546	63	3.615	3.615	2...	H1-1b					
49	M43	SR 3/4	.110	4.636	47	.015	4.636	31	2.683	19.88	249	249	2...	H1-1b					
50	SF3-D1	SR 3/4	.110	4.636	37	.014	4.636	21	2.683	19.88	249	249	2...	H1-1b					
51	M66	SR 3/4	.110	4.636	42	.015	4.636	26	2.683	19.88	249	249	2...	H1-1b					
52	SF2-V1	SR 3/4	.098	0	39	.030	0	24	6.78	19.88	249	249	2...	H1-1b					
53	M60	SR 3/4	.095	2.917	34	.025	2.917	22	6.78	19.88	249	249	3...	H1-1b*					
54	M50	PIPE 2.0X	.093	2.5	31	.020	2.5	25	38.546	63	3.615	3.615	2...	H1-1b					
55	FFBH1	PIPE 2.0X	.093	2.5	26	.021	2.5	20	38.546	63	3.615	3.615	2...	H1-1b					
56	M27	PIPE 2.0X	.093	2.5	21	.020	2.5	30	38.546	63	3.615	3.615	2...	H1-1b					
57	M59	SR 3/4	.091	2.917	34	.030	0	29	6.78	19.88	249	249	2...	H1-1b					
58	M36	SR 3/4	.091	2.917	39	.031	0	18	6.78	19.88	249	249	2...	H1-1b					
59	SF3-BH	PIPE 2.0X	.090	.355	52	.048	0	49	45.622	63	3.615	3.615	2...	H1-1b					
60	M40	PIPE 2.0X	.088	.355	46	.048	0	42	45.622	63	3.615	3.615	1...	H1-1b					
61	M63	PIPE 2.0X	.088	.355	42	.048	0	39	45.622	63	3.615	3.615	1...	H1-1b					
62	M61	SR 3/4	.087	4.636	37	.013	4.636	22	2.683	19.88	249	249	2...	H1-1b					
63	SF2-D1	SR 3/4	.085	4.636	47	.013	4.636	33	2.683	19.88	249	249	2...	H1-1b					
64	M38	SR 3/4	.084	4.636	42	.014	4.636	27	2.683	19.88	249	249	2...	H1-1b					
65	SF2-V2	SR 3/4	.084	2.917	45	.027	2.917	33	6.78	19.88	249	249	1...	H1-1b*					
66	M37	SR 3/4	.081	2.917	42	.027	2.917	27	6.78	19.88	249	249	3...	H1-1b*					
67	SF2-BH	PIPE 2.0X	.068	.355	48	.042	0	40	45.622	63	3.615	3.615	1...	H1-1b					
68	M58	PIPE 2.0X	.067	.355	37	.041	0	42	45.622	63	3.615	3.615	1...	H1-1b					
69	M35	PIPE 2.0X	.066	.355	42	.041	0	34	45.622	63	3.615	3.615	1...	H1-1b					
70	Mast	PIPE 4.0	.016	2.042	54	.004	4.885	54	82.696	93.24	10.631	10.631	2	H1-1b					
71	M71	PIPE 4.0	.007	2.042	34	.002	4.885	31	82.696	93.24	10.631	10.631	1...	H1-1b					
72	M72	PIPE 4.0	.007	2.042	45	.002	4.885	26	82.696	93.24	10.631	10.631	1...	H1-1b					

**Envelope None Cold Formed Steel Code Checks**

Member	Shape	Code Check	Loc[ft]	LC	Shear	C...	Loc[ft]	Dir	LC	Pn[k]	Tn[k]	Mnyy[...]	Mnzz[...]	Cb	Cmyy	Cmzz	Eqn
No Data to Print ...																	

**APPENDIX D**  
**ADDITIONAL CALCULATIONS**

## Moment Bolt Group - Support Arm

Bolt Size: 0.625 in  
 # Bolts: 4  
 Plate Width: 9.75 in  
 Plate Height: 4 in  
 Bolt H Gap: 6.5 in  
 Bolt V Gap: 2 in  
 Plate T: 0.625 in  
 Tower Leg Ø: 4.5 in  
 Bolt Grade: A307  
 $F_{u,bolt}$ : 60 ksi  
 r: 3.4004 in  
 J: 10.4526 in<sup>4</sup>  
 $Bolt_{Area}$ : 0.307 in<sup>2</sup>  
 $Bolt_{Area, Net Tensile}$ : 0.226 in<sup>2</sup>  
 Pretension: 9 kips  
 Slotted Holes: No

Code Checks Per ANSI/TIA-222-H-2017:		
Bolt Group Capacity =	9.6%	GOOD
Single Bolt Capacity =	7.3%	GOOD

### Single Bolt Check

Bolt Size: 1 in  
 Bolt  $F_u$ : 120 ksi  
 $Bolt_A, Net Tensile$ : 0.606 in<sup>2</sup>

$$V_{max} = 2.592 \text{ kips}$$

$$\underline{\underline{\emptyset R_{NV} = 35.343 \text{ kips}}}$$

$$T_{max} = 1.342 \text{ kips}$$

$$\underline{\underline{\emptyset R_{NT} = 54.540 \text{ kips}}}$$

## Moment Bolt Group - Face Horizontal

Code Checks Per ANSI/TIA-222-H-2017:		
Single Bolt Capacity =	12.1%	GOOD

### Single Bolt Check

Bolt Size: 0.625 in  
Bolt  $F_u$ : 120 ksi  
Bolt<sub>A, Net Tensile</sub>: 0.226 in<sup>2</sup>

$V_{max} = \frac{1.664}{13.806}$  kips  
 $\emptyset R_{NV} = \frac{1.664}{13.806}$  kips

$T_{max} = \frac{0.753}{20.340}$  kips  
 $\emptyset R_{NT} = \frac{0.753}{20.340}$  kips

# Exhibit F

## **Power Density/RF Emissions Report**



# RF EMISSIONS COMPLIANCE REPORT

## Crown Castle on behalf of AT&T Mobility, LLC

Crown Castle Site ID: 842873  
Crown Castle Site Name: SHELTON NE  
AT&T Mobility, LLC Site FA Number: 10071231  
AT&T Mobility, LLC Site Name: SHELTON NE  
30 Oliver Terrace  
Shelton, CT  
5/28/2020

### Report Status:

**AT&T Mobility, LLC is Compliant**



Michael Fischer, P.E.  
Registered Professional Engineer (Electrical)  
Connecticut License Number 33928  
Expires January 31, 2021

Signed 28 May 2020

Prepared By:

Site Safe, LLC

Engineering Statement in Re:  
Electromagnetic Energy Analysis  
Crown Castle  
Shelton, CT

My signature on the cover of this document indicates:

That I am registered as a Professional Engineer in the jurisdiction indicated; and

That I have extensive professional experience in the wireless communications engineering industry; and

That I am an employee of Site Safe, LLC in Vienna, Virginia; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission ("the FCC" and "the FCC Rules") both in general and specifically as they apply to the FCC's Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That the technical information serving as the basis for this report was supplied by Crown Castle on behalf of AT&T Mobility, LLC (see attached Site Summary and Carrier documents) and that AT&T Mobility, LLC's installation involves communications equipment, antennas and associated technical equipment at a location referred to as "SHELTON NE" ("the site"); and

That AT&T Mobility, LLC proposes to operate at the site with transmit antennas listed in the carrier summary and with a maximum effective radiated power as specified by AT&T Mobility, LLC and shown on the worksheet and that worst-case 100% duty cycle has been assumed; and

That this analysis has been performed with the assumption that the ground immediately surrounding the tower is primarily flat or falling; and

That at this time, the FCC requires that certain licensees address specific levels of radio frequency energy to which workers or members of the public might possibly be exposed (at §1.1307(b) of the FCC Rules); and

That such consideration of possible exposure of humans to radio frequency energy must utilize the standards set by the FCC, which is the federal agency having jurisdiction over communications facilities; and

That the FCC rules define two tiers of permissible exposure guidelines: 1) "uncontrolled environments," which defines situations in which persons may not be aware of (the "general public"), or may not be able to control their exposure to a transmission facility; and 2) "controlled environments," which defines situations in which persons are aware of their potential for exposure (industry personnel); and

That this statement specifically addresses the uncontrolled environment (which is more conservative than the controlled environment) and the limit set forth in the FCC rules for licensees of AT&T Mobility, LLC's operating frequencies as shown on the attached antenna worksheet; and

That when applying the uncontrolled environment standards, the predicted Maximum Power Density at two meters above ground level from the proposed AT&T Mobility, LLC operation is

no more than 3.190% of the maximum permissible exposure limits in any accessible area on the ground; and

That it is understood per FCC Guidelines and OET 65 Appendix A, that regardless of the existent radio frequency environment, only those licensees whose contributions exceed 5% of the exposure limit pertinent to their operation(s) bear any responsibility for bringing any non-compliant area(s) into compliance; and

That when applying the uncontrolled environment standards, the cumulative predicted energy density from the proposed operation is no more than 8.693% of the maximum in any accessible area up to two meters above the ground per OET 65; and

That the calculations provided in this report are based on data provided by the client and antenna pattern data supplied by the antenna manufacturer, in accordance with FCC guidelines listed in OET 65. Horizontal and vertical antenna patterns are combined for modeling purposes to accurately reflect the energy two meters above ground level where on-axis energy refers to maximum energy two meters above the ground along the azimuth of the antenna and where area energy refers to the maximum energy anywhere two meters above the ground regardless of the antenna azimuth, accounting for cumulative energy from multiple antennas for the carrier(s) and frequency range(s) indicated; and

That the Occupational Safety and Health Administration has policies in place which address worker safety in and around communications sites, thus individual companies will be responsible for their employees' training regarding radio frequency safety; and

In summary, it is stated here that the proposed operation at the site will not result in exposure of the public to excessive levels of radio frequency energy as defined in the FCC Rules and Regulations, specifically 47 CFR 1.1307(b), and that AT&T Mobility, LLC's proposed operation is completely compliant.

Finally, it is stated that access to the tower should be restricted to communication industry professionals and approved contractor personnel trained in radio frequency safety and that this instant analysis addresses exposure levels at two meters above ground level and does not address exposure levels on the tower or in the immediate proximity of the antennas.



**Crown Castle  
SHELTON NE  
Site Summary**

Carrier	Area Maximum Percentage MPE
AT&T Mobility, LLC (Proposed)	0.737 %
AT&T Mobility, LLC (Proposed)	0.357 %
AT&T Mobility, LLC (Proposed)	0.686 %
AT&T Mobility, LLC (Proposed)	0.293 %
AT&T Mobility, LLC	0.702 %
AT&T Mobility, LLC (Proposed)	0.415 %
Sprint	0.783 %
Sprint	0.971 %
T-Mobile	0.689 %
T-Mobile	0.552 %
T-Mobile	0.466 %
T-Mobile	0.393 %
Unknown	0.131 %
Verizon Wireless	0.413 %
Verizon Wireless	0.275 %
Verizon Wireless	0.328 %
Verizon Wireless	0.502 %
<b>Composite Site MPE:</b>	<b>8.693 %</b>

**AT&T Mobility, LLC (Proposed)**  
**SHELTON NE**  
**Carrier Summary**

Frequency: 2300 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 7.37052  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.73705 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI Antennas	DMP65R-BU6D	129	30	2606	7.207639	0.720764	7.330486	0.733049
CCI Antennas	DMP65R-BU6D	129	150	2606	7.207639	0.720764	7.330486	0.733049
CCI Antennas	DMP65R-BU6D	129	260	2606	7.207639	0.720764	7.330486	0.733049

**AT&T Mobility, LLC (Proposed)**  
**SHELTON NE**  
**Carrier Summary**

Frequency: 737 MHz  
Maximum Permissible Exposure (MPE): 491.33  $\mu\text{W}/\text{cm}^2$   
Maximum power density at ground level: 1.75356  $\mu\text{W}/\text{cm}^2$   
Highest percentage of Maximum Permissible Exposure: 0.35690 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI Antennas	DMP65R-BU6D	129	30	2400	1.141499	0.232327	1.476154	0.300438
CCI Antennas	DMP65R-BU6D	129	150	2400	1.141499	0.232327	1.476154	0.300438
CCI Antennas	DMP65R-BU6D	129	260	2400	1.141499	0.232327	1.476154	0.300438

**AT&T Mobility, LLC (Proposed)**  
**SHELTON NE**  
**Carrier Summary**

Frequency: 2100 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 6.85732  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.68573 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI	OPA65R-BU6D	129	30	4562	4.736979	0.473698	6.678018	0.667802
CCI	OPA65R-BU6D	129	150	4562	4.736979	0.473698	6.678018	0.667802
CCI	OPA65R-BU6D	129	260	4562	4.736979	0.473698	6.678018	0.667802

**AT&T Mobility, LLC (Proposed)**  
**SHELTON NE**  
**Carrier Summary**

Frequency: 763 MHz  
 Maximum Permissible Exposure (MPE): 508.67  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 1.49284  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.29348 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI	OPA65R-BU6D	129	30	2450	1.173208	0.230644	1.220189	0.239880
CCI	OPA65R-BU6D	129	150	2450	1.173208	0.230644	1.220189	0.239880
CCI	OPA65R-BU6D	129	260	2450	1.173208	0.230644	1.220189	0.239880

**AT&T Mobility, LLC  
SHELTON NE  
Carrier Summary**

Frequency: 1900 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 7.01806  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.70181 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI Antennas	HPA-65R-BUU-H6	129	30	4530	5.636427	0.563643	6.905830	0.690583
CCI Antennas	HPA-65R-BUU-H6	129	150	4530	5.636427	0.563643	6.905830	0.690583
CCI Antennas	HPA-65R-BUU-H6	129	260	4530	5.636427	0.563643	6.905830	0.690583

**AT&T Mobility, LLC (Proposed)  
SHELTON NE  
Carrier Summary**

Frequency: 850 MHz  
 Maximum Permissible Exposure (MPE): 566.67  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 2.35317  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.41527 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CCI Antennas	HPA-65R-BUU-H6	129	30	588	0.353460	0.062375	0.542310	0.095702
CCI Antennas	DMP65R-BU6D	129	30	2239	1.053005	0.185824	1.935816	0.341615
CCI Antennas	HPA-65R-BUU-H6	129	150	588	0.353460	0.062375	0.542310	0.095702
CCI Antennas	DMP65R-BU6D	129	150	2239	1.053005	0.185824	1.935816	0.341615
CCI Antennas	HPA-65R-BUU-H6	129	260	588	0.353460	0.062375	0.542310	0.095702
CCI Antennas	DMP65R-BU6D	129	260	2239	1.053005	0.185824	1.935816	0.341615

**Sprint  
SHELTON NE  
Carrier Summary**

Frequency: 1900 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 7.83366  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.78337 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APXVSPP18-C-A20	75	50	3804	2.227790	0.222779	6.502660	0.650266
RFS	APXVSPP18-C-A20	75	150	3804	2.227790	0.222779	6.502660	0.650266
RFS	APXVSPP18-C-A20	75	260	3804	2.227790	0.222779	6.502660	0.650266



**Sprint  
SHELTON NE  
Carrier Summary**

Frequency: 850 MHz  
 Maximum Permissible Exposure (MPE): 566.67  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 5.50082  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.97073 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
Commscope	DT465B-2XR	75	30	2472	2.677974	0.472584	4.096349	0.722885
Commscope	DT465B-2XR	75	170	2472	2.677974	0.472584	4.096349	0.722885
Commscope	DT465B-2XR	75	260	2472	2.677974	0.472584	4.096349	0.722885

**T-Mobile  
SHELTON NE  
Carrier Summary**

Frequency: 1900 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 6.89350  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.68935 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APX16DWV-16DWVS-C-A20	120	50	6763	6.154403	0.615440	6.242513	0.624251
RFS	APX16DWV-16DWVS-C-A20	120	200	6763	6.154403	0.615440	6.242513	0.624251
RFS	APX16DWV-16DWVS-C-A20	120	300	6763	6.154403	0.615440	6.242513	0.624251

**T-Mobile  
SHELTON NE  
Carrier Summary**

Frequency: 700 MHz  
 Maximum Permissible Exposure (MPE): 466.67  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 2.57586  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.55197 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APXVAARR24_43-U-NA20	120	50	3484	1.540487	0.330104	1.664731	0.356728
RFS	APXVAARR24_43-U-NA20	120	200	3484	1.540487	0.330104	1.664731	0.356728
RFS	APXVAARR24_43-U-NA20	120	300	3484	1.540487	0.330104	1.664731	0.356728

**T-Mobile  
SHELTON NE  
Carrier Summary**

Frequency: 600 MHz  
 Maximum Permissible Exposure (MPE): 400  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 1.86498  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.46624 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
RFS	APXVAARR24_43-U-NA20	120	50	2501	1.229547	0.307387	1.266150	0.316537
RFS	APXVAARR24_43-U-NA20	120	200	2501	1.229547	0.307387	1.266150	0.316537
RFS	APXVAARR24_43-U-NA20	120	300	2501	1.229547	0.307387	1.266150	0.316537

**T-Mobile  
SHELTON NE  
Carrier Summary**

Frequency: 2100 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 3.92863  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.39286 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
Ericsson	AIR 32 DB B66AA B2A	120	50	6168	2.105696	0.210570	2.419053	0.241905
Ericsson	AIR 32 DB B66AA B2A	120	200	6168	2.105696	0.210570	2.419053	0.241905
Ericsson	AIR 32 DB B66AA B2A	120	300	6168	2.105696	0.210570	2.419053	0.241905

**Unknown  
SHELTON NE  
Carrier Summary**

Frequency: 450 MHz  
 Maximum Permissible Exposure (MPE): 300  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 0.39343  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.13114 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
ANDREW	DB636	145	30	100	0.393434	0.131145	0.393434	0.131145

**Verizon Wireless  
SHELTON NE  
Carrier Summary**

Frequency: 850 MHz  
 Maximum Permissible Exposure (MPE): 566.67  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 2.34252  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.41339 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
Antel	BXA-80063-6CF	140	30	4509	1.821733	0.321482	1.856259	0.327575
Antel	BXA-80063-6CF	140	120	4509	1.821733	0.321482	1.856259	0.327575
Antel	BXA-80063-6CF	140	220	4509	1.821733	0.321482	1.856259	0.327575

**Verizon Wireless  
SHELTON NE  
Carrier Summary**

Frequency: 1900 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 2.74665  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.27466 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
ANDREW	HBXX-6516DS-VTM	140	30	3726	1.069496	0.106950	2.257778	0.225778
ANDREW	HBXX-6516DS-VTM	140	120	3726	1.069496	0.106950	2.257778	0.225778
ANDREW	HBXX-6516DS-VTM	140	220	3726	1.069496	0.106950	2.257778	0.225778



**Verizon Wireless  
SHELTON NE  
Carrier Summary**

Frequency: 700 MHz  
 Maximum Permissible Exposure (MPE): 466.67  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 1.52847  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.32753 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
CSS	X7C-FRO-660	140	30	4066	1.484679	0.318145	1.524199	0.326614
CSS	X7C-FRO-660	140	120	4066	1.484679	0.318145	1.524199	0.326614
CSS	X7C-FRO-660	140	220	4066	1.484679	0.318145	1.524199	0.326614

**Verizon Wireless  
SHELTON NE  
Carrier Summary**

Frequency: 2100 MHz  
 Maximum Permissible Exposure (MPE): 1000  $\mu\text{W}/\text{cm}^2$   
 Maximum power density at ground level: 5.01583  $\mu\text{W}/\text{cm}^2$   
 Highest percentage of Maximum Permissible Exposure: 0.50158 %

Antenna Make	Model	Height (feet)	Orientation (degrees true)	ERP (Watts)	On Axis		Area	
					Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE	Max Power Density ( $\mu\text{W}/\text{cm}^2$ )	Percent of MPE
ANDREW	HBXX-6516DS-VTM	140	30	6461	2.623129	0.262313	4.445151	0.444515
ANDREW	HBXX-6516DS-VTM	140	120	6461	2.623129	0.262313	4.445151	0.444515
ANDREW	HBXX-6516DS-VTM	140	220	6461	2.623129	0.262313	4.445151	0.444515